



GOLDEN STATE

FIRE APPARATUS

PREPARED ESPECIALLY FOR:

MERCED FIRE DEPARTMENT

One (1) BME Fire Trucks, LLC 4X4 International STOCK Type 3 Model 34
“Targhee” (Job 3456)



FIRE TRUCKS

HGACBuy
THE SMART PURCHASING SOLUTION



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1 PRODUCT PROPOSAL

Exhibit "A"

FIRE APPARATUS PROPOSAL FOR: Merced Fire Department 99 E 16th Street Merced, CA 95340	SHIP TO: SAME	SALES CONSULTANT Ryan Wright ryan@goldenstatefire.com Mobile: (209) 613-3809
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SUBMITTED DATE	EXPIRATION DATE	GSFA PROPOSAL #	MANUFACTURER BID #	MANUFACTURER	CONSORTIUM
02/20/2023	03/23/2023	10220-23B	3456	BME Fire Trucks, LLC	HGAC Contract FS12-19, Product Code FS19DB03

Golden State Fire Apparatus, Inc. ("GSFA") is pleased to provide the following fire apparatus ("Product") proposal to the CITY OF MERCED ("Customer") for consideration. This offer is comprised of the Product Proposal ("Exhibit A"), which includes the Payment Terms set forth below; the Purchasing Terms and Conditions ("Exhibit B"); Product Specifications ("Exhibit C"); Product Warranties ("Exhibit D"); and Dealer Supplied Products and/or Services ("Exhibit E"). Through its signature below or other Acceptance (as defined on page 2), Customer acknowledges having received, read and being bound by this Proposal, and all Exhibit's at the prices listed below:

Item	Product Description	Unit Price
A	One (1) BME Fire Trucks, LLC 4X4 International STOCK Model 34 (Job 3456)	458,852.77
B	8.25% State Sales Tax	37,855.35
C	California Tire Fee	10.50
D	GRAND TOTAL PURCHASE PRICE	496,718.62

PAYMENT TERMS - Customer shall pay the Grand Total Purchase Price at time of delivery or pick up of the Product to GSFA. It is the responsibility of the Customer to have full payment ready when the Product is complete and ready to deliver or pick up. If payment is late or delivery is delayed pending payment, a late fee as specified in section 7 of Exhibit B may be applied.

PRODUCT COMPLETION – Product shall be built by Manufacturer in accordance with Exhibit C of the specifications hereto attached, and be ready for final inspection by Customer at the manufacturing facility within approximately **20 to 35 CALENDAR DAYS** after receipt of this order and the acceptance thereof by GSFA. Product Completion is subject to: (A) all causes beyond our control in accordance with sections 8 and 14 of Exhibit B, and (B) extension due to changes made by the Customer in accordance with sections 19 and 20 of Exhibit B.

PREDELIVERY SERVICE – If applicable, after transportation from the manufacturing facility and prior to final delivery, the Product shall receive additional Products and/or Services in accordance with Exhibit E of the specifications hereto attached. It is estimated that Exhibit E will add approximately **15 to 25 CALENDAR DAYS** additional to the above Product Completion.

PROPOSAL EXPIRATION – This proposal supersedes any previous proposal(s) presented by GSFA and its employees and is valid for purchase until the "expiration date". Unless accepted by the expiration date, Company reserves the right to withdraw this proposal or provide updated pricing prior to an order being accepted.

PURCHASE ORDER - If the Customer elects to issue a Purchase Order (PO) it shall be made out to: *Golden State Fire Apparatus, Inc. – 7400 Reese Road – Sacramento, CA 95828.*

ACCEPTANCE OF THIS PROPOSAL CREATES AN ENFORCEABLE BINDING AGREEMENT BETWEEN GSFA AND CUSTOMER. "ACCEPTANCE" MEANS THAT THE CUSTOMER DELIVERS TO GSFA: (A) THIS PROPOSAL SIGNED BY DULY AUTHORIZED REPRESENTATIVES, OR (B) A PURCHASE ORDER INCORPORATING THIS PROPOSAL, WHICH IS DULY APPROVED, TO THE EXTENT APPLICABLE, PER SECTION 8. ACCEPTANCE OF THIS PROPOSAL IS EXPRESSLY LIMITED TO THE TERMS CONTAINED IN THIS PROPOSAL

AND GSFA'S PURCHASING TERMS AND CONDITIONS. ANY ADDITIONAL OR DIFFERENT TERMS, WHETHER CONTAINED IN CUSTOMER'S FORMS OR OTHERWISE PRESENTED BY CUSTOMER AT ANY TIME, ARE HEREBY REJECTED.

INTENDING TO CREATE A BINDING AGREEMENT, Customer and GSFA have each caused this Proposal to be executed by their duly authorized representatives as of date of the GSFA signatures below.

ACCEPTED AND AGREED TO BY CITY OF MERCED, a California corporation

AUTHORIZED CUSTOMER REPRESENTATIVE:

CUSTOMER ATTEST:

Signature

Signature

Print Name

Print Name

Title

Title

Date

Date

ACCEPTED AND AGREED TO BY GOLDEN STATE FIRE APPARATUS INC, a California corporation

AUTHORIZED GSFA REPRESENTATIVE:

GSFA ATTEST:

Signature

Signature

Print Name

Print Name

Title

Title

Executed Date

Executed Date

NOTE:

- This Agreement is not a valid and binding obligation until approved, dated and executed by GSFA
- Day one of the "Product Completion" timeframe starts on the "Executed Date"

APPROVED AS TO FORM:



Deputy City Attorney

2/22/23
Date



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2 PURCHASING TERMS AND CONDITIONS

Exhibit "B"

PURCHASING TERMS AND CONDITIONS

These Purchasing Terms and Conditions, together with the Product Proposal and all attachments (collectively, the "Agreement") are entered into by and between Golden State Fire Apparatus, Inc. a California corporation ("GSFA") and Customer (as defined in Golden State Fire Apparatus, Inc.'s Product Proposal document). Both GSFA and Customer may be referred throughout this document individually as a "party" or collectively as the "Parties."

1. Definitions.

- a. **"Acceptance"** means Customer's receipt of the Product, subject to the inspection provisions contained in Section 24 of this Agreement.
- b. **"Dealer Preparation"** If applicable, means additional product(s) and/or services added by GSFA to the fire apparatus and equipment produced by the Manufacturer to get the items included in the Agreement ready for delivery.
- c. **"Delivery"** means the delivery of the Product to Customer by GSFA, as set forth in Section 10 of this Agreement.
- d. **"Final Inspection"** means a physical inspection of the Product by the Customer to ensure that the apparatus is built to specification and to detect any deficiencies that require correction.
- e. **"Grand Total Purchase Price"** means all direct and indirect labor and material costs, taxes, duties, fees, and any other charges applicable to complete the total requirements as specified in the solicitation document.
- f. **"Late Fee"** means a charge a Customer pays when they fail to make a payment on a Product(s) by the due date.
- g. **"Manufacturer"** means the person or persons, company, firm, corporation, partnership, or other organization responsible for turning raw materials or components into a finished product.
- h. **"Product"** means the fire apparatus and any associated equipment listed on Exhibit A, attached hereto, and further described in the Specifications.
- i. **"Product Proposal"** means the proposal provided to the Customer prior to executing this Agreement, and it is attached and incorporated herein as part of this Agreement.
- j. **"Product Completion"** means the fire apparatus and equipment produced by the Manufacturer is complete and ready for final inspection by the Customer at the Manufacturing facility.
- k. **"Purchase Order (PO)"** means a legal document that is created by a Customer and sent to GSFA to confirm the Customer's intention to purchase products and/or services.
- l. **"Specifications"** means the specifications for the Product, which are set forth in Exhibit C, attached hereto.

2. Purpose. This Agreement sets forth the Purchasing Terms and Conditions of GSFA's sale of the Product to the Customer.

3. Term of Agreement. This Agreement will become effective on the date it is signed by both Customer and GSFA ("Executed Date") and, unless earlier terminated pursuant to the terms of this Agreement, it will terminate upon payment in full of the Grand Total Purchase Price.

4. Stock / Demo Units. If applicable, any stock/demo unit(s), including those identified by this Product Proposal, are available for sale on an as-is, first-come and first served-basis. Regardless of this Product Proposal, the first Customer to enter into a Purchase Agreement identifying any such stock/demo unit(s) shall obtain said unit(s).

5. Multiple Unit Purchase. If applicable, the Grand Total Purchase Price includes pricing for multiple units, the price stated on this Product Proposal shall only be valid if the quantity of Products being proposed are purchased at the same time, pursuant to the same Purchase Agreement.

6. Purchase and Payment. The Customer agrees to purchase the Product specified on Exhibit A for the price shown on Exhibit A (the "Grand Total Purchase Price") and pursuant to the payment terms set forth in Exhibit A. The Grand Total Purchase Price is in U.S. dollars. Where customer opts for a Prepayment Discount that specifies Customer will tender one or more prepayments to GSFA, Customer must provide each prepayment within the time frame specified in Exhibit A in order to receive the Prepayment Discount for that prepayment installment, or a Late Fee may be applied. Within thirty (30) calendar days after receipt of this order and acceptance thereof, GSFA shall submit to Customer a tentative product completion date.

7. Late Fee. A late fee of 0.033% of the Grand Total Purchase Price will be charged per calendar day for overdue payments beginning ten (10) calendar days after the payment is due for the first thirty (30) calendar days. The late fee increases to 0.044% per calendar day until the payment is received. In the event of a pre-payment being received after the due date, the discount will be reduced by the same percentages above which will result in the Grand Total Purchase Price being increased.

8. Representations and Warranties. Customer hereby represents and warrants to GSFA that the purchase of the Product(s) have been approved by Customer in accordance with applicable general laws and, as applicable, Customer's charter, ordinances, purchasing policies, and other governing documents, and funding for the purchase has been duly budgeted and appropriated, and executed by the appropriate Customer employees, officials, and/or representatives.

9. Cancellation/Termination. In the event Customer and GSFA enter into this Agreement, and Customer thereafter cancels or terminates the Agreement, GSFA will charge a cancellation fee as follows: (a) 10% of the Grand Total Purchase Price after order is accepted and entered by GSFA; (b) 20% of the Grand Total Purchase Price after completion of the pre-construction phase of the order process; and (c) 50% of the Grand Total Purchase Price after the requisition of any materials or commencement of any manufacturing or assembly of the Product by either GSFA or the manufacturer of the Product. The tier of cancellation fee applicable to any cancellation shall be in the sole and absolute discretion of GSFA. Customer may request a fee waiver, and GSFA, in its sole discretion, may agree to waive and/or adjust such fee, and will inform Customer in writing of its decision.

10. Delivery. The Product is scheduled to be delivered as specified in the Product Completion and Predelivery Service (together "Delivery") sections of Exhibit A. Delivery is an estimate, and GSFA is not bound to such date unless it otherwise agrees to in writing. GSFA is not responsible for Delivery delays caused by or because of actions, omissions or conduct of the Manufacturer, its employees, affiliates, suppliers, contractors, and carriers. Risk of loss shall pass to Customer upon Delivery. However, title to the Product shall only pass to Customer upon Delivery if Customer has then fully paid GSFA all amounts due hereunder. If Delivery occurs before Customer has fully paid all amounts due hereunder, Customer may not mount equipment, conduct training, or place the Product into service until all such amounts have been paid. Due to insurance liability, the Product(s) will not be left at the Customer's location without full acceptance and payment or prior written agreement between the Customer and GSFA. Proof of insurance must be demonstrated by the Customer to GSFA prior to transferring of the Product(s).

11. Standard Warranty. Any applicable manufacturer warranties are attached hereto as Exhibit D and made a part hereof. Any additional warranties must be expressly approved in writing by GSFA.

a. Disclaimer. OTHER THAN AS EXPRESSLY SET FORTH IN THIS AGREEMENT, GSFA, ITS AFFILIATES, AND THEIR RESPECTIVE OFFICERS, DIRECTORS, EMPLOYEES, SHAREHOLDERS, AGENTS, OR REPRESENTATIVES, DO NOT MAKE ANY EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE PRODUCT PROVIDED HEREUNDER OR OTHERWISE REGARDING THIS AGREEMENT, WHETHER ORAL OR WRITTEN, EXPRESS, IMPLIED OR STATUTORY. WITHOUT LIMITING THE FOREGOING, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, THE IMPLIED WARRANTY AGAINST INFRINGEMENT, AND THE IMPLIED WARRANTY OR CONDITION OF FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED AND DISCLAIMED. STATEMENTS MADE BY SALES CONSULTANTS OR IN PROMOTIONAL MATERIALS DO NOT CONSTITUTE WARRANTIES.

b. Exclusions of Incidental and Consequential Damages. In no event shall GSFA be liable for consequential, incidental, or punitive damages incurred by Customer in connection with any matter arising out of or relating to this Agreement, or the breach thereof, regardless of whether such damages arise out of breach of warranty, Agreement, indemnity, whether resulting from non-delivery or from GSFA's own negligence, or otherwise, unless such damages arise solely from the reckless and/or deliberate misconduct of GSFA.

12. Notice. Any required or permitted notices hereunder must be given in writing at the address of each party set forth below, or to such other address as either party may substitute by written notice to the other in the manner contemplated herein, by one of the following methods: hand delivery; registered, express, or certified mail, return receipt requested, postage prepaid; or nationally recognized private express courier:

GSFA:

Golden State Fire Apparatus Inc.
7400 Reese Road
Sacramento, CA 95828

CUSTOMER:

See Address in Exhibit A

13. Indemnification of GSFA. Customer shall indemnify, defend, and hold harmless GSFA, its agents, servants, successors and assigns from and against all losses, damages, injuries, claims, demands and expenses, including legal expenses, of whatever nature ("Damages") to the extent Damages arise out of Customer's negligent use, storage, or operation of the Product following Delivery, regardless of where, how, and by whom operated. The indemnification and assumptions of liability and obligation herein provided shall continue in full force and effect notwithstanding the termination of this Agreement, whether by expiration of time, by operation of law or otherwise. This provision is not intended to constitute the exclusive remedy of the Parties under this Agreement; the Parties may seek indemnity from one another under other legal principals, whether based in equity or law, so long as they do not nullify or cancel the effects of this paragraph. This provision does not cover and/or apply to any losses, damages, injuries, claims, demands, and/or expenses that arise solely due to GSFA's negligence.

14. Force Majeure. GSFA shall not be responsible nor deemed to be in default on account of delays in performance due to causes which are beyond GSFA's and manufacturer's control and which make GSFA's performance impracticable, including but not limited to wars, insurrections, strikes or labor unrest, riots, fires, storms, floods, other acts of nature, explosions, earthquakes, accidents, any act of federal, state or local government, failure or delays in transportation, inability to obtain necessary labor supplies or manufacturing facilities, supply chain issues, allocation regulations or orders affecting materials, equipment, facilities or completed products, failure to obtain any required license or certificates, acts of God or the public enemy or terrorism, failure of transportation, epidemics, quarantine restrictions, failure of vendors (due to causes similar to those within the scope of this clause) to perform their Agreements or labor troubles causing cessation, slowdown, or interruption of work.

15. Customer's Obligations. Customer shall provide its timely and best efforts to cooperate with GSFA and Manufacturer during the manufacturing process to create the Product. Reasonable and timely cooperation includes, without limitation, Customer's providing timely information in response to a request from Manufacturer or GSFA and Customer's participation in traveling to Manufacturer's facility for inspections and approval of the Product.

16. Default. The occurrence of one or more of the following shall constitute a default under this Agreement: (a) Customer's failure to pay any amounts due under this Agreement or Customer's failure to perform any of its obligations under this Agreement; (b) GSFA's failure to perform any of its obligations under this Agreement; (c) either Party becoming insolvent or becoming subject to bankruptcy or insolvency proceedings; (d) any representation made by either Party to induce the other to enter into this Agreement, which is false in any material respect; (e) any action by Customer to dissolve, merge, consolidate or transfer a substantial portion of its property to another entity; or (f) a default or breach by Customer under any other Agreement or agreement with GSFA.

17. Component Price Volatility. GSFA shall not be responsible for any unforeseen price increase enacted by suppliers of major components of the Product (including but not limited to commercial chassis, engine, transmission, and fire pump) after the execution of this Agreement or issuance of Purchase Order. Any price increases for major

components of the product will be passed through to the Customer and will be documented on a Change Order. The Parties shall meet and confer prior to enacting any Change Order set out above.

18. Commercial Chassis Price Volatility. If applicable, GSFA shall not be responsible for any commercial chassis price increase or surcharge enacted by a commercial chassis Original Equipment Manufacturer (OEM) after the execution of this Agreement or issuance of Purchase Order. Any commercial chassis price increase or surcharge will be passed through to the Customer and will be documented on a Change Order. Customer shall pay any commercial chassis price increase or surcharge prior to delivery at the “ship to” address.

19. Global Supply Chain. Due to global supply chain constraints, any product completion date contained herein is a good faith estimate as of the date of this proposal, and merely an approximation based on current information. Product completion is subject to updates and if applicable, updates will be provided when available.

19. Change Orders. The Customer may request that GSFA incorporate a change to the Product or the Specifications for the Product by delivering a written Change Order to GSFA, which shall include a description of the proposed change sufficient to permit GSFA to evaluate the feasibility of such change (a “Change Order”). GSFA will provide Customer a written response (a “Response”) stating (i) whether GSFA will accommodate such Change Order (which GSFA may decide in its sole and absolute discretion) and (ii) the terms of the modification to the order, including any increase or decrease in the Grand Total Purchase Price resulting from such Change Order, a commercially reasonable date on which any increase in the Grand Total Purchase Price must be paid, and any effect on production scheduling or Delivery resulting from such Change Order. Customer shall have seven (7) calendar days after receipt of the Response to notify GSFA as to whether Customer desires to make the changes GSFA has approved in the Response. In the event Customer countersigns GSFA’s Response, Customer shall pay the increase (or be refunded the decrease) in the Grand Total Purchase Price by the date specified in the Response.

20. Changes Required by New Standards. The Grand Total Purchase Price shall be subject to increase in the event any governmental entity or trade association, including, but not limited to, the NFPA, DOT, and EPA, issues new regulations which pertain to the Product. GSFA shall promptly notify Customer when it becomes aware of any potential or required change in regulations that would impact the product purchased. In the event of any such change in the regulations, GSFA shall send Customer an invoice for any change to the Grand Total Purchase Price, which, to the extent practicable, shall itemize any such price increases. The invoice will specify a commercially reasonable date by which Customer must pay the increase in the Grand Total Purchase Price, subject to Customer’s right to terminate as set forth in Exhibit A.

21. Changes in Commercial Specifications. Specifications for all commercial components of the Product, manufactured by companies other than the Manufacturer listed in Exhibit A, are subject to change without notice. Specifications for such components will be as available at the time of manufacture of the Product. GSFA shall not be liable for any specification deviations from the original Agreement specifications on such components made by their original manufacturer.

22. State Sales Tax. Customer shall be responsible for the cost of state sales tax associated with, or attributable to, the Product. The taxes owed by Customer for the Product is subject to adjustment for the applicable state sales tax rate in effect when the Product is delivered to the Customer. Therefore, the sales tax will be increased or decreased at the time of delivery if a change in the sales tax rate has occurred, in which case Customer shall pay GSFA (or be refunded by GSFA) the applicable change in sales tax.

23. Contradictions. In the event of a conflict between the GSFA Proposal and the Terms and Conditions set out in this Agreement, this Agreement and its attachments shall control.

24. Inspection and Acceptance. Upon Delivery, Customer shall have ten (10) calendar days within which to inspect the Product for substantial conformance to the Specifications, and in the event of substantial non-conformance to the Specifications to furnish GSFA with written notice sufficient to permit GSFA to evaluate such non-conformance (“Notice of Nonconformance to Specifications”). Contingent upon part availability, any Product not in substantial

conformance to material Specifications shall be remedied by GSFA within thirty (30) calendar days from the Notice of Nonconformance to Specifications. In the event GSFA does not receive a Notice of Nonconformance to Specifications within ten (10) calendar days of Delivery, Product will be deemed to be in conformance with Specifications and accepted by Customer.

25. Manufacturer's Statement of Origin. It is agreed that the manufacturer's statement of origin ("MSO") for the Product covered by this Agreement shall be retained and remain in the possession of GSFA per California Department of Vehicles (DMV) directive. An exception to receiving the original MSO is if the Customer is self-registering, as they must meet good-faith Process of Duty with DMV and retain its own MSO.

26. Assignment. The relationship of the Parties established under this Agreement is that of independent contractors and neither Party is a partner, employee, agent, or joint venture of or with the other. Neither Party may assign its rights and obligations under this Agreement unless it has obtained the prior written approval of the other Party.

27. Governing Law; Jurisdiction; Disputes. Without regard to any conflict of law's provisions, this Agreement is to be governed by and under the laws of the state of California. Prior to taking any legal action that may and/or can arise out of this Agreement, the Parties shall first attempt mediation with an agreed upon mediator. If the Parties cannot agree upon a mediator, they shall submit the dispute to JAMS based in Sacramento, California. Following a failed mediation, any dispute concerning and/or claim regarding this Agreement and/or the terms and conditions herein may only be filed and/or heard in the Superior Court, County of Sacramento.

28. Counterparts. This Agreement may be executed in multiple counterparts, each of which shall be deemed an original (including copies sent to a party by electronic transmission) as against the party signing such counterpart, but which together shall constitute one and the same instrument.

29. Electronic Signature Consent. By signing and accepting this proposal, I agree that this signature will be an electronic representation of my signature for all purposes when I use them on documents, including legally binding Agreements – just the same as a wet ink signature on paper.

30. Entire Agreement; Amendments. This Agreement, including its exhibits, is the exclusive agreement between the parties for the Product. No change in, modification of, or revision of this Agreement shall be valid unless in writing and signed by duly authorized representatives of both parties with authority to sign such amendments to this Agreement.

END OF PURCHASING TERMS AND CONDITIONS



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3 PRODUCT SPECIFICATIONS

Exhibit "C"

BME Fire Trucks



FIRE TRUCKS

SPEC SUBJECT TO CHANGE. IN THE EVENT OF A DISCREPANCY, THE AS-BUILT APPARATUS SHALL SUPERCEDE THIS SPECIFICATION.

DEMO / STOCK #3456
MODEL 34 "TARGHEE"

BME Fire Trucks

DETERMINATION OF APPARATUS WEIGHT

BME Fire Trucks, LLC. shall submit estimated "in-service" weight analysis required by applicable NFPA standards. This Excel computer weight analysis shall break down all major components of the apparatus and shall show the impact on percentage-of-load on the front and rear axles, total weight, and weight on each tire set.

The analysis shall evenly distribute the NFPA required minimum payload allowance or estimated equipment payload as provided by the purchaser into the specified compartments. The allowance for personnel, hose loads, water and foam fluids, and required NFPA equipment shall be outlined individually in the analysis and placed on the apparatus in its specific intended position.

CENTER-OF-GRAVITY ANALYSIS

BME Fire Trucks, LLC. shall perform an estimated center of gravity calculation as required by the applicable section of NFPA standards. This calculation shall include tilt angles, the estimated right to left load distribution, and load on each axle, including all specified major components.

LOW VOLTAGE TEST REQUIRMENTS

The fire apparatus low voltage electrical system shall be tested as required by this section and the test results shall be certified by the apparatus manufacturer. The certification shall be delivered to the purchaser with the documentation for the completed apparatus. The tests shall be performed when the air temperature is between 0 degrees Fahrenheit and 110 degrees Fahrenheit.

TEST SEQUENCE

The three tests defined below shall be performed in the order in which they appear. Before each test, the chassis batteries shall be fully charged until the voltage stabilizes at the voltage regulator set point and the lowest charge current is maintained for 10 minutes. The failure of any of these tests shall require a repeat of the test sequence.

RESERVE CAPACITY TEST

The chassis engine shall be started and kept running until the chassis engine and engine compartment temperatures are stabilized at normal operating temperatures and the chassis battery system is fully charged. The chassis engine shall be shut off and the minimum continuous electrical load shall be applied for 10 minutes. All electrical loads shall be turned off prior to

BME Fire Trucks

attempting to restart the chassis engine. The chassis battery system shall then be capable of restarting the chassis engine. The failure to restart the chassis engine shall be considered a failure of this test.

ALTERNATOR PERFORMANCE TEST AT IDLE

The minimum continuous electrical load shall be applied with the chassis engine running at idle speed. The chassis engine temperature shall be stabilized at normal operating temperature. The chassis battery system shall be tested to detect the presence of a chassis battery current discharge. The detection of chassis battery current discharge shall be considered a failure of this test.

ALTERNATOR PERFORMANCE TEST AT FULL LOAD

The total continuous electrical load shall be applied with the chassis engine running up to the engine manufacturer's governed speed. The test duration shall be a minimum of two hours. The activation of the electrical system load management system shall be permitted during this test. The activation of an alarm due to excessive chassis battery discharge, as detected by the system required by NFPA (current edition), or an electrical system voltage of less than 11.8 volts direct current for a 12 volt direct current nominal system, for more than 120 seconds, shall be considered a failure of this test.

LOW VOLTAGE ALARM TEST

Following the completion of the tests described above, the chassis engine shall be turned off. With the chassis engine turned off, the total continuous electrical load shall be applied and shall continue to be applied until the excessive battery discharge alarm activates. The chassis battery voltage shall be measured at the battery terminals.

The test shall be considered to be a failure if the low voltage alarm has not yet sounded 140 seconds after the voltage drops to 11.70 volts direct current for a 12 volt direct current nominal system. The chassis battery system shall then be able to restart the chassis engine. The failure of the chassis battery system to restart the chassis engine shall be considered a failure of this test.

The completed fire apparatus shall undergo a complete 12 volt electrical load and performance testing per applicable sections of NFPA standards with inspection and test sheets included in delivery documentation.

DOCUMENTATION

The apparatus manufacturer shall provide the results of the low-voltage electrical system performance test, certified in writing, with the documentation provided to the purchaser at the time of delivery of the completed apparatus.

BME Fire Trucks

The test results shall consist of the following documents:

- (1) Documentation of the electrical system performance tests.
- (2) A written electrical load analysis, including the following:
 - (a) The nameplate rating of the alternator.
 - (b) The alternator rating under the conditions specified in NFPA 1906 (current edition).
 - (c) Each of the component loads specified that make up the minimum continuous electrical load.
 - (d) Additional electrical loads that, when added to the minimum continuous electrical load, determine the total continuous electrical load.
 - (e) Each individual intermittent electrical load.

TEST RESULTS

BME Fire Trucks LLC. shall provide results of the apparatus testing and shall certify the following:

The weight of the completed apparatus, when loaded to its estimated in service weight, does not exceed the GVWR and GAWR of the chassis.

The complete unit, when loaded to its estimated in service weight, meets the weight distribution and vehicle stability requirements, as defined in the current NFPA guidelines.

The unit meets all required federal standards pertaining to the manufacturer and completion of the apparatus and a label tag has been affixed to the apparatus by the manufacturer stating same.

BME Fire Trucks LLC. shall provide all testing results, including engine, speed, acceleration, road ability, braking, and auxiliary braking to the Purchaser at the time of delivery.

DELIVERY REQUIREMENTS

The bidder shall not be responsible for delays in delivery due to strikes, acts of God, failure of suppliers to deliver, chassis shortage and other reasons beyond the reasonable control of the builder. Should BME Fire Trucks, LLC. be unable to comply with the proposed delivery date, we shall immediately contact the purchaser regarding delay information and actions to be taken by the company.

This vehicle shall be F.O.B. the BME Fire Trucks facility in Boise Idaho. Dealer shall be responsible for arrangement of delivery from factory.

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GENERAL WARRANTY PROVISIONS

All materials and workmanship herein specified, including all equipment furnished, shall be guaranteed for a period of one (1) year after the acceptance date of the apparatus, unless otherwise noted, with the exception of any normal maintenance services or adjustments which shall be required. Under this warranty, BME Fire Trucks, LLC. shall be responsible for the costs of repairs to the apparatus that have been caused by defective workmanship or materials during this period.

This warranty shall not apply to the following:

- Any component parts or trade accessories such as chassis, engines, tires, pumps, valves, signaling devices, batteries, electric lights, bulbs, alternators, and all other installed equipment and accessories, in as much as they are usually warranted separately by their respective manufacturers, or are subject to normal wear and tear.
- Failures resulting from the apparatus being operated in a manner or for a purpose not recommended by the apparatus manufacturer.
- Loss of time or use of the apparatus, inconvenience or other incidental expenses.
- Any apparatus which has been repaired or altered without written consent or outside of the apparatus manufacturer's factory and or authorized service center in any way that affects its stability, or which has been subject to misuse, negligence, or accident.
- Delivery of the apparatus to repair site.

DISCLAIMER

NO WARRANTIES ARE GIVEN BEYOND THOSE DESCRIBED HEREIN. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. THE COMPANY SPECIFICALLY DISCLAIMS WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OTHER REPRESENTATIONS TO THE USER/PURCHASER AND ALL OTHER OBLIGATIONS OR LIABILITIES. FURTHER, THE COMPANY EXCLUDES LIABILITY FOR CONSEQUENTIAL AND INCIDENTAL DAMAGES, ON THE PART OF THE COMPANY OR SELLER. No person is authorized to give any other warranties or to assume any liabilities on the Company's behalf unless made or assumed in writing by the seller; and no other person is authorized to give any warranties or to assume any liabilities on the seller's behalf unless made or assumed in writing by the seller.

BME Fire Trucks

OBTAINING SERVICE

Return the vehicle to any BME Fire Trucks, LLC. dealer/authorized service center; Return the vehicle to BME Fire Trucks, LLC. or contact BME Fire Trucks, LLC.. BME Fire Trucks, LLC. shall be solely responsible for determining the extent of repair under the terms of the warranty. Transportation costs shall be the responsibility of the purchaser.

MATERIAL AND WORKMANSHIP

All equipment provided shall be guaranteed to be new and of current manufacture, and unless specified otherwise, shall meet all requirements of these specifications and prevailing NFPA documents and be in condition at time of delivery for use as specified for this type of apparatus.

All workmanship shall be of the highest quality and accomplished in a professional manner so as to insure a functional apparatus with a high quality aesthetic appearance.

The construction shall be rugged and ample safety factors shall be provided to carry the loads specified to meet both on and off road requirements.

The apparatus shall be designed and the equipment mounted with due consideration to the distribution of load between the front and rear axles, so all specified equipment, with a full complement of personnel, can be carried without damage to the apparatus.

BODY AND STRUCTURAL WARRANTY

BME Fire Trucks, LLC. shall warrant each new apparatus body, if used in a normal and reasonable manner, against structural defects caused by defects in material, design or workmanship for a period of ten (10) years, covering parts & labor to the original purchaser which shall start on day of acceptance.

This warranty shall not apply to:

- Normal maintenance services or adjustments
- To any vehicle which will have been repaired or altered outside of our factory in any way so as, in the judgment of BME Fire Trucks, LLC., to affect it's stability, nor which has been subject to misuse, negligence, or accident, nor to any vehicle made by us which will have been operated to a speed exceeding the factory rated speed, or loaded beyond the factory rated load capacity.
- Commercial chassis and associated equipment furnished with chassis, signaling devices, generators, batteries, or other trade accessories as they are usually warranted

BME Fire Trucks

separately by their respective manufacturers.

- Shipping costs of parts or apparatus for purposes of repair or replacement of parts. This warranty is in lieu of all other warranties, expressed or implied. All other representations as to the original purchaser and all other obligations or liabilities, including for incidental or consequential damage on the company's behalf unless made in writing by the company.

DARLEY FIRE PUMP WARRANTY

A three (3) year warranty on the Darley fire pump shall be provided. The provisions of this warranty shall be described in the completed apparatus documentation.

PLUMBING WARRANTY

The stainless steel fire pump plumbing shall carry a ten (10) year parts and labor warranty against defects in workmanship and perforation corrosion.

AKRON VALVE WARRANTY

The Akron valves shall carry a ten (10) year parts and labor manufacturer's warranty. Provisions of this warranty shall be provided with the completed apparatus documentation.

FOAM TANK WARRANTY

The foam tank shall carry a "lifetime" warranty against defects in workmanship and perforation corrosion. The provisions of this warranty shall be provided in the delivery documentation. The tank manufacturer shall repair, at no cost to the purchaser, any problems caused by defective materials and/or workmanship. The warranty shall cover the reasonable costs of removing the water tank from the apparatus and reinstalling it after the completion of the covered warranty repairs, but shall not cover any liability for the loss of service or downtime costs of the apparatus.

WATER TANK WARRANTY

The polypropylene water tank that is specified to be supplied with this apparatus shall be warranted by the water tank manufacturer for a "lifetime" period from the date that the apparatus is put into service. The tank manufacturer shall repair, at no cost to the purchaser, any problems caused by defective materials and/or workmanship. The warranty shall cover the reasonable costs of removing the water tank from the apparatus and reinstalling it after the completion of the covered warranty repairs, but shall not cover any liability for the loss of service or downtime costs of the apparatus.

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PAINT WARRANTY

BME Fire Trucks, LLC. shall provide a seven (7) year paint warranty which shall cover peeling and/or de-lamination of the top coat and other layers of paint, cracking or checking, loss of gloss caused by cracking, checking or chalking, and any paint failure caused by defective paint materials covered by the paint manufacturer's material warranty.

CHASSIS WARRANTY

The specified chassis shall be provided with the chassis manufacturer's warranty. The exact provisions of this warranty shall be supplied with the completed apparatus documentation.

APPARATUS OPERATION MANUAL(S)

BME Fire Trucks, LLC. shall provide (2) electronic apparatus operational manual(s) on a USB thumb drive.

CHASSIS SPECIFICATIONS

Base Chassis, Model HV507 SFA with 183.00 Wheelbase, 64.10 CA, and 65.00 Axle to Frame.

TOW HOOK, FRONT (2) Frame Mounted

AXLE CONFIGURATION {Navistar} 4x4

FRAME RAILS Heat Treated Alloy Steel (120,000 PSI Yield); 10.125" x 3.580" x 0.312" (257.2mm x 90.9mm x 8.0mm); 480.0" (12192) Maximum OAL

FRAME REINFORCEMENT Full Outer C-Channel, Heat Treated Alloy Steel (120,000 PSI Yield), 10.813" x 3.892" x 0.312" (274.6mm x 98.8mm x 7.9mm), 480.0" (12192mm) OAL

BUMPER, FRONT Swept Back 15-Degrees, Steel, for use with Front Frame Extensions, Heavy Duty

FRAME, SPECIAL EFFECTS Dimple on Left and Right Top Flange of Frame Rail to Reference Rear Axle Centerline

FRAME EXTENSION, FRONT Integral; 20" In Front of Grille

WHEELBASE RANGE 181" (460cm) Through and Including 205" (520cm)

BME Fire Trucks

AXLE, FRONT DRIVING {Meritor MX-12-120 EVO} Single Reduction, 12,000-lb Capacity, with Hub Piloted Wheel Mounting

AXLE, FRONT DRIVING, LUBE {EmGard FE-75W-90} Synthetic Oil; 1 thru 29.99 Pints

SUSPENSION, FRONT, SPRING Parabolic Taper Leaf, Shackle Type, 12,000-lb Capacity, with Shock Absorbers

BRAKE SYSTEM, AIR Dual System for Straight Truck Applications

BRAKE LINES Color and Size Coded Nylon

DRAIN VALVE Twist-Type

GAUGE, AIR PRESSURE (2) Air 1 and Air 2 Gauges; Located in Instrument Cluster

PARKING BRAKE CONTROL Yellow Knob, Located on Instrument Panel

PARKING BRAKE VALVE For Truck

QUICK RELEASE VALVE On Rear Axle for Spring Brake Release: 1 for 4x2, 2 for 6x4

SPRING BRAKE MODULATOR VALVE R-7 for 4x2, SR-7 with relay valve for 6x4/8x6

AIR BRAKE ABS {Bendix AntiLock Brake System} 4-Channel (4 Sensor/4 Modulator) Full Vehicle Wheel Control System

AIR DRYER {Bendix AD-IP} with Heater

BRAKE CHAMBERS, POSITION Rotated Forward and Up For Maximum Ground Clearance with 4x4

BRAKE CHAMBERS, FRONT AXLE {MGM} 20 SqIn

BRAKE CHAMBERS, REAR AXLE {MGM TR3030LP3TSHD} 30/30 SqIn Spring Brake

SLACK ADJUSTERS, FRONT {Haldex} Automatic

SLACK ADJUSTERS, REAR {Haldex} Automatic

AIR COMPRESSOR {Cummins} 18.7 CFM

BME Fire Trucks

AIR DRYER LOCATION Mounted Inside Left Rail, Behind Transfer Case Mounting

AIR TANK LOCATION (2) Mounted Under Battery Box, Outside Left Rail, Back of Cab, Perpendicular to Rail

DUST SHIELDS, FRONT BRAKE for Air Cam Brakes

DRAIN VALVE (3) Petcocks, for Air Tanks

DUST SHIELDS, REAR BRAKE for Air Cam Brakes

BRAKES, REAR {Meritor 16.5X7 P} Air S-Cam Type, Cast Spider, Cast Shoe, Double Anchor Pin, Includes Greaseable and Zinc Coated Anchor Pins, Size 16.5" X 7", 38,000-lb Capacity per Axle

BRAKES, FRONT {Meritor 16.5X5 Q-PLUS CAST} Air S-Cam Type, Cast Spider, Fabricated Shoe, Double Anchor Pin, Size 16.5" X 5", 14,700-lb Capacity

STEERING COLUMN Tilting

STEERING WHEEL 4-Spoke; 18" Dia., Black

STEERING GEAR {Sheppard M100} Power

DRIVELINE SYSTEM {Dana Spicer} SPL170 Main Driveline, 1710 Driveline to Transfer Case, SPL140 Driveline to Front Axle, for 4x4

AFTERTREATMENT COVER Polished Aluminum

EXHAUST SYSTEM Horizontal Aftertreatment System, Frame Mounted Right Side Under Cab, for Single Short Horizontal Tail Pipe, Frame Mounted Right Side Back of Cab, for All-Wheel Drive

ENGINE COMPRESSION BRAKE {Jacobs} for Cummins ISL/L9 Engines; with Selector Switch and On/Off Switch

SWITCH, FOR EXHAUST 3 Position, Momentary, Lighted Momentary, ON/CANCEL, Center Stable, INHIBIT REGEN, Mounted in IP Inhibits Diesel Particulate Filter Regeneration When Switch is Moved to ON While Engine is Running, Resets When Ignition is Turned OFF

ELECTRICAL SYSTEM 12-Volt, Standard Equipment

BME Fire Trucks

DATA LINK CONNECTOR For Vehicle Programming and Diagnostics In Cab

HAZARD SWITCH Push On/Push Off, Located on Instrument Panel to Right of Steering Wheel

HEADLIGHT DIMMER SWITCH Integral with Turn Signal Lever

PARKING LIGHT Integral with Front Turn Signal and Rear Tail Light

STARTER SWITCH Electric, Key Operated

STOP, TURN, TAIL & B/U LIGHTS Dual, Rear, Combination with Reflector

TURN SIGNAL SWITCH Self-Cancelling for Trucks, Manual Cancelling for Tractors, with Lane Change Feature

WINDSHIELD WIPER SWITCH 2-Speed with Wash and Intermittent Feature (5 Pre-Set Delays), Integral with Turn Signal Lever

WINDSHIELD WIPERS Single Motor, Electric, Cowl Mounted

WIRING, CHASSIS Color Coded and Continuously Numbered

CIGAR LIGHTER Includes Ash Cup

HORN, ELECTRIC (2) Disc Style

FOG LIGHTS Prewire; Includes Auxiliary Switch and Wiring to Front Bumper, for Driving Lights or Fog Lights Mounted by Customer

POWER SOURCE Cigar Type Receptacle without Plug and Cord

ALTERNATOR {Leece-Neville BLP4006HN} Brushless, 12 Volt, 325 Amp Capacity, Pad Mount, with Remote Sense

BODY BUILDER WIRING Rear of Frame; Includes Sealed Connectors for Tail/Amber Turn/Marker/ Backup/ Accessory Power/Ground and Sealed Connector for Stop/Turn

BATTERY SYSTEM {Fleetrite} Maintenance-Free, (3) 12-Volt 2850CCA Total, Top Threaded Stud

SPEAKERS (2) 6.5" Dual Cone Mounted in Both Doors, (2) 5.25" Dual Cone Mounted in Both B-Pillars

BME Fire Trucks

ANTENNA for Increased Roof Clearance Applications

RADIO AM/FM/WB/Clock/Bluetooth/USB Input/Auxiliary Input

BATTERY CABLES with 36" of Extra Length Coiled and Strapped Near Battery Box

DATA RECORDER Includes Display Mounted in Overhead Console

STOP-LIGHT WIRING MODIFIED Stop-Lights Turned on When Engine Compression Brake, Exhaust Brake or Retarder is Activated

WINDSHIELD WIPER SPD CONTROL Force Wipers to Slowest Intermittent Speed When Park Brake Set and Wipers Left on for a Predetermined Time

BATTERY BOX Steel, with Fiberglass Cover, 2-4 Battery Capacity, Mounted Left Side Perpendicular to Frame Rail, 53" Back of Cab

CLEARANCE/MARKER LIGHTS (5) {Truck Lite} Amber LED Lights, Flush Mounted on Cab or Sunshade

TEST EXTERIOR LIGHTS Pre-Trip Inspection will Cycle all Exterior Lamps Except Back-up Lights

HEADLIGHTS ON W/WIPERS Headlights Will Automatically Turn on if Windshield Wipers are turned on

STARTING MOTOR {Delco Remy 38MT Type 300} 12 Volt, Less Thermal Over-Crank Protection

COURTESY LIGHT (4) Mounted In Front & Rear Map Pocket Left and Right Side

INDICATOR, LOW COOLANT LEVEL with Audible Alarm

ALARM, PARKING BRAKE Electric Horn Sounds in Repetitive Manner When Vehicle Park Brake is "NOT" Set, with Ignition "OFF" and any Door Opened

INDICATOR, BATTERY WARNING Green BATTERY ON Indicator, Mounted on Left Side of Instrument Panel, To be Used with Factory Installed or Customer Mounted Battery Disconnect Switch

CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III with Trip Indicators, Replaces All Fuses

BME Fire Trucks

SWITCH, AUXILIARY Switch 40 amp Circuit for Customer Use; Includes Wiring Connection at Power Distribution Center (PDC) and Control in Cab

TURN SIGNALS, FRONT Includes LED Side Turn Lights Mounted on Fender

BATTERY DISCONNECT SWITCH 300 Amp, Disconnects Charging Circuits, Locks with Padlock, Cab Mounted

HORN, AIR Single Trumpet, Black, with Lanyard Pull Cord

HEADLIGHTS Halogen

FENDER EXTENSIONS Omit

LOGOS EXTERIOR Model Badges, Shipped Loose, Located in Cab

LOGOS EXTERIOR, ENGINE Badge Shipped Loose

INSULATION, UNDER HOOD for Sound Abatement

GRILLE Stationary, Chrome

INSULATION, SPLASH PANELS for Sound Abatement

BUG SCREEN Mounted Behind Grille

FRONT END Tilting, Fiberglass, with Three Piece Construction, for WorkStar/HV

GRILLE EMBER SCREEN Mounted to Grille and Cowl Tray to Keep Hot Embers out of Engine and HVAC Air Intake System

PAINT SCHEMATIC, PT-1 Single Color, Design 100

PAINT SCHEMATIC ID LETTERS "WK"

PAINT TYPE Base Coat/Clear Coat, 1-2 Tone

PAINT CLASS Single Custom Color

PROMOTIONAL PACKAGE Government Silver Package

BME Fire Trucks

KEYS - ALL ALIKE, ID I-1003 Compatible with Z-001

CLUTCH Omit Item (Clutch & Control)

ANTI-FREEZE Red, Extended Life Coolant; To -40 Degrees F/ -40 Degrees C, Freeze Protection

BLOCK HEATER, ENGINE 120V/1000W, for Cummins ISB/B6.7/ISL/L9 Engines

BLOCK HEATER SOCKET Receptacle Type; Mounted below Drivers Door

ENGINE, DIESEL {Cummins L9 360} EPA 2021, 360HP @ 2200 RPM, 1150 lb-ft Torque @ 1200 RPM, 2200 RPM Governed Speed, 359 Peak HP (Max)

FAN DRIVE {Horton Drivemaster} Two-Speed Type, Direct Drive, with Residual Torque Device for Disengaged Fan Speed

FAN Nylon

RADIATOR Aluminum, Cross Flow, Front to Back System, 1228 SqIn, with 1167 SqIn Charge Air Cooler, Includes In-Tank Oil Cooler

DEAERATION SYSTEM with Surge Tank

HOSE CLAMPS, RADIATOR HOSES Gates Shrink Band Type; Thermoplastic Coolant Hose Clamps

RADIATOR HOSES Premium, Rubber

AIR CLEANER Dual Element

EMISSION, CALENDAR YEAR {Cummins L9} EPA, OBD and GHG Certified for Calendar Year 2022

THROTTLE, HAND CONTROL Engine Speed Control; Electronic, Stationary, Variable Speed; Mounted on Steering Wheel

FAN OVERRIDE Manual; with Electric Switch on Instrument Panel, (Fan On with Switch On)

ENGINE WATER COOLER {Sen-Dure} Auxiliary, For Use with Fire Trucks

BME Fire Trucks

CARB IDLE COMPLIANCE Engine Shutdown System Exempt Vehicles, Complies with California Clean Air Regulations

CARB EMISSION WARR COMPLIANCE for Cummins L9 Engines

ENGINE CONTROL, REMOTE MOUNTED Provision for; Includes Wiring for Body Builder Installation of PTO Controls and Starter Lockout, with Ignition Switch Control, for Cummins B6.7 and L9 Engines

TRANSMISSION, AUTOMATIC {Allison 3000 EVS} 5th Generation Controls, Close Ratio, 6-Speed with Double Overdrive, with PTO Provision, Less Retarder, Includes Oil Level Sensor

TRANSFER CASE {Meritor MTC-4210} 2-Speed, 10,000 lb-ft Torque Rating, Less PTO Provision, Electric Over Air Control, with Lube Pump

OIL COOLER, AUTO TRANSMISSION {Modine} Water to Oil Type

TRANSFER CASE LUBE {EmGard 50W} Synthetic; 1 thru 14.99 Pints

TRANSMISSION SHIFT CONTROL Column Mounted Stalk Shifter, Not for Use with Allison 1000 & 2000 Series Transmission

OIL COOLER, TRANSFER CASE with Oil Coolant Lines Routed to Oil Cooler

TRANSMISSION OIL Synthetic; 29 thru 42 Pints

ALLISON SPARE INPUT/OUTPUT for Emergency Vehicle Series (EVS), Rescue, Ambulance, Package Number 170

SHIFT CONTROL PARAMETERS {Allison} 3000 or 4000 Series Transmissions, Performance Programming

PTO LOCATION Dual, Customer Intends to Install PTO at Left and/or Right Side of Transmission

AXLE, REAR, SINGLE {Meritor RS-26-185} Single Reduction, 26,000-lb Capacity, R Wheel Ends . Gear Ratio: 5.86

SUSPENSION, REAR, SINGLE 31,000-lb Capacity, Vari-Rate Springs, with 4500-lb Capacity Auxiliary Multileaf Springs

SHOCK ABSORBERS, REAR (2)

BME Fire Trucks

AXLE, REAR, LUBE {EmGard FE-75W-90} Synthetic Oil; 40 thru 49.99 Pints

DEF TANK 9.5 US Gal (36L) Capacity, Frame Mounted Outside Left Rail, Under Cab

FUEL/WATER SEPARATOR {Racor 400 Series} 12 VDC Electric Heater, Includes Pre-Heater, with Primer Pump, Includes Water-in-Fuel Sensor, Mounted on Engine

FUEL TANK Top Draw, Non-Polished Aluminum, 26" Dia, 70 US Gal (265L), Mounted Left Side, Under Cab

AUXILIARY FUEL DRAW TUBE Located at Auxiliary Port on Fuel Tank

CAB Conventional 6-Man Crew Cab

AIR CONDITIONER with Integral Heater and Defroster

GAUGE CLUSTER Base Level; English with English Electronic Speedometer

GAUGE CLUSTER DISPLAY: Base Level (3" Monochromatic Display), Premium Level (5" LCD Color Display); Odometer, Voltmeter, Diagnostic Messages, Gear Indicator, Trip Odometer, Total Engine Hours, Trip Hours, MPG, Distance to Empty/Refill for

GAUGE CLUSTER Speedometer, Tachometer, Engine Coolant Temp, Fuel Gauge, DEF Gauge, Oil Pressure Gauge, Primary and Secondary Air Pressure

WARNING SYSTEM Low Fuel, Low DEF, Low Oil Pressure, High Engine Coolant Temp, Low Battery Voltage (Visual and Audible), Low Air Pressure (Primary and Secondary)

SEATBELT WARNING PREWIRE Includes Seat Belt Switches and Seat Sensors for all Belted Positions in the Cab and a Harness Routed to the Center of the Dash for the Aftermarket Installation of the Data Recorder and Seatbelt Indicator Systems, for 4 to 6 Seat Belts

GAUGE, OIL TEMP, AUTO TRANS for Allison Transmission

GAUGE, AIR CLEANER RESTRICTION {Filter-Minder} with Black Bezel, Mounted in Instrument Panel

IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster

SEAT, DRIVER {H.O. Bostrom Sierra Air 100} NFPA Compliant, Air Suspension, High Back, Vinyl with Covered Back and International Logo on Headrest, for Fire Truck

BME Fire Trucks

SEAT, PASSENGER {H.O. Bostrom Sierra Air 100} NFPA Compliant, Air Suspension, High Back, Vinyl with Covered Back, International Logo on Headrest, for Fire Truck

GRAB HANDLE, EXTERIOR (2) Chrome, Towel Bar Type, with Anti-Slip Rubber Inserts, for Cab Entry Mounted Left and Right Side at B-Pillar

GRAB HANDLE, ADDITIONAL EXT (2) Chrome, Towel Bar Type, with Anti-Slip Rubber Inserts, Mounted Left and Right Side, Rear of Rear Doors, for Crew Cab

SEAT, REAR {National} BENCH; Full Width; Vinyl, with Fixed Back and Two Integral Outboard Headrests

MIRRORS (2) C-Loop, Power Adjust, Heated, LED Clearance Lights, Bright Heads and Arms, 7.5" x 14" Flat Glass, Includes 7.5" x 7" Convex Mirrors, for 102" Load Width Mirror Dimensions are Rounded to the Nearest 0.5"

SEAT BELT All Red; 4 to 6

CAB INTERIOR TRIM Classic, for Crew Cab

CONSOLE, OVERHEAD Molded Plastic with Dual Storage Pockets, Retainer Nets and CB Radio Pocket; Located Above Driver and Passenger

DOMELIGHT, CAB Door Activated and Push On-Off at Light Lens, Timed Theater Dimming, Integral to Overhead Console, Center Mounted

SUN VISOR (2) Padded Vinyl; 2 Moveable (Front-to-Side) Primary Visors, Driver Side with Toll Ticket Strap

CAB SOUND INSULATION Includes Dash Insulator and Engine Cover Insulator

HOURLMETER, PTO for Customer Provided PTO; with Indicator Light and Hourmeter in Gauge Cluster Includes Return Wire for PTO Feedback Switch

CAB REAR SUSPENSION Air Bag Type

WINDOW, MANUAL (4) and Manual Door Locks, Front and Rear Doors, Left and Right

INSTRUMENT PANEL Flat Panel

ACCESS, CAB Steel, Driver & Passenger Sides, Two Steps per Door, for use with Crew Cab

BME Fire Trucks

STEP, STANDARD, OMIT Driver & Passenger Sides, Omit Rear Steps for use with Crew Cab

WHEELS, FRONT {Accuride 42644} DISC; 22.5x8.25 Rims, Standard Polish Aluminum, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with Steel Hubs

WHEELS, REAR {Accuride 42644} DUAL DISC; 22.5x8.25 Rims, Standard Polish Aluminum, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with Steel Hubs

(2) TIRE, FRONT 12R22.5 Load Range H HDR2+ (CONTINENTAL), 479 rev/mile, 75 MPH, Drive

(4) TIRE, REAR 12R22.5 Load Range H HDR2+ (CONTINENTAL), 479 rev/mile, 75 MPH, Drive

WARRANTY Standard for HV507, HV50B, HV607 Models, Effective with Vehicles Built July 1, 2017 or Later, CTS-2025A

CAB SEATING AND WEIGHT ALLOWANCE

A warning label shall be installed in the cab to indicate seating positions for four (4) people. A weight allowance of 250 pounds shall be calculated for each person.

LABELS, STANDARD PACKAGE SET

A standard set of labels shall be provided and installed on the inside of chassis cab area. The labels shall contain the required information based on the applicable components for the apparatus.

DATA PLAQUE

A data plaque shall be provided and installed on the inside of the driver's door. The data plaque shall contain the required information based on the applicable components for the apparatus:

- Engine oil
- Engine coolant
- Chassis transmission fluid
- Drive axle lubricant
- Power steering fluid
- Pump, generator, or other component lubrications
- Other NFPA applicable fluid levels or data as required
- Paint manufacturer, type, and color number

BME Fire Trucks

- Tire Speed Ratings

Location shall be in the driver's compartment or on the driver's door.

WARNING LABEL -- NO RIDING ON REAR

A warning label stating: "WARNING: DO NOT RIDE ON REAR STEP WHILE VEHICLE IS IN MOTION. DEATH OR SERIOUS INJURY MAY RESULT" shall be installed on the rear of the apparatus. The label shall be applied to the vehicle at the rear step area. The label shall warn personnel that riding in or on these areas, while the vehicle is in motion, is prohibited.

WARNING LABEL -- SEAT BELT USAGE

A warning label, stating: "WARNING CRASH HAZARD OCCUPANTS MUST BE SEATED AND BELTED WHEN VEHICLE IS IN MOTION..." shall be provided in the apparatus cab interior. This label shall be located so that it is visible from all seating positions.

LOUD NOISE WARNING LABEL

A final stage manufacturer shall install "hearing loss" potential warning labels on the vehicle in any areas or fixed equipment that produces excessive noise levels. (Exhaust outlet, sirens and air horns shall not be required for such equipment.)

AIR FILTER EMBER PROTECTION SCREEN WARNING LABEL

A warning label, stating: "THIS VEHICLE HAS AN AIR INTAKE EMBER SCREEN WHICH REQUIRES PERIODIC INSPECTION & CLEANING" shall be provided and installed in the apparatus cab interior.

FRESH AIR EMBER SEPARATOR WARNING LABEL

A warning label, stating: "THIS APPARATUS IS EQUIPPED WITH A CAB FRESH AIR INTAKE EMBER PROTECTION SCREEN. ROUTINE INSPECTION IS REQUIRED." shall be provided and installed in the apparatus cab interior.

WARNING LABEL -- DO NOT WEAR HELMET

A warning label, stating: "CAUTION: DO NOT WEAR HELMET WHILE SEATED" shall be provided in the apparatus cab interior. This label shall be located so that it is visible from all seating positions.

MANUFACTURER LOGO

BME Fire Trucks

The apparatus shall include a BME logo plaque which shall be affixed at the rear of the apparatus.

The BME plaque shall feature white reflective material on the outside of the Maltese cross and red reflective material in the middle.

FRONT TOW PLATE

A horizontal full frame width, ¾-inch thick steel plate, center pull, front tow eye shall be furnished and installed through or below the front bumper. The tow eye plate shall be triangle shaped extended 6 inches beyond the front bumper with a 3-inch X 4-inch rectangle tow eye.

The tow eye shall be braced and gusseted to prevent frame rail or bumper damage and bolted to the front frame rail web with eight (8) Grade 8 frame bolts and lock nuts.

The tow plate shall to be sprayed with black durabak.

FRONT RECEIVER

There shall be one bolted 2" receiver hitch on the front of the apparatus. The receiver shall be mounted off set as to prevent towing use.

REAR RECEIVER

There shall be one bolted 2" receiver hitch on the rear of the apparatus. The receiver shall be mounted off set as to prevent towing use.

REAR BUSTLE

A single, frame mounted, 3-inch X 4-inch diameter, rear towing eye shall be provided. It shall be manufactured from ¾-inch thick steel plate and bolted between the rear frame rail webs with a minimum of eight (8), four (4) on each side, SAE Grade 8 frame bolts and lock nuts.

The tow eye shall be braced and gusseted to prevent damage to the frame rails, bumper or apparatus body while being towed from various angles. Access to the tow eye shall be below the bumper and designed not to interfere with the required angle of departure. The bustle shall be painted job color.

FRONT FRAME EXTENSION

The front frame rails shall be extended 16" ahead of the cab grill or fender area.

BUMPER PLATFORM

BME Fire Trucks

The front bumper extended frame rails shall feature an overlay constructed of .125 inch, 5052 grade, aluminum deck bright which shall offer space for mounting components necessary to the apparatus. The bumper extension shall measure approximately sixteen (16) inches from the cab to the front face of the extension and shall be approximately eight (8) inches in height.

LEFT HAND -- FRONT BUMPER COMPARTMENT

One (1) recessed hose storage compartment shall be installed in the left side of the bumper. The compartment shall be constructed of smooth aluminum. The floor of the compartment shall have drain holes provided.

BUMPER COMPARTMENT NYLON HOLD DOWN STRAP

One (1) nylon strap with a buckle shall be installed on the specified front bumper compartment. The nylon strap shall act as a hold down mechanism for the hose in the compartment.

The straps shall be black in color.

BUMPER COMPARTMENT GRATING

The specified bumper compartment shall be fitted with removable interlocking vinyl Dri-Dek grating. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

The specified Dri-Deck grating shall be black in color.

CENTER -- FRONT BUMPER COMPARTMENT

One (1) recessed hose storage compartment shall be installed in the center front bumper. The compartment shall be constructed of smooth aluminum. The floor of the compartment shall have drain holes provided.

BUMPER COMPARTMENT DOOR

An aluminum tread plate door shall be installed on the specified front bumper compartment. The non-skid surface door shall have a stainless steel hinge at the rear, latch, and hold open device installed.

The specified door(s) shall have a Polished stainless-steel D-ring door handle.

BUMPER COMPARTMENT GRATING

BME Fire Trucks

The specified bumper compartment shall be fitted with removable interlocking vinyl Dri-Dek grating. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

The specified Dri-Deck grating shall be black in color.

RIGHT HAND -- FRONT BUMPER COMPARTMENT

One (1) recessed hose storage compartment shall be installed in the right side of the bumper. The compartment shall be constructed from smooth aluminum. The floor of the compartment shall have drain holes provided.

BUMPER COMPARTMENT NYLON HOLD DOWN STRAP

One (1) nylon strap with a buckle shall be installed on the specified front bumper compartment. The nylon strap shall act as a hold down mechanism for the hose in the compartment.

The straps shall be black in color.

BUMPER COMPARTMENT GRATING

The specified bumper compartment shall be fitted with removable interlocking vinyl Dri-Dek grating. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

The specified Dri-Deck grating shall be black in color.

BUMPER

There shall be an International 15 degree bumper installed on the apparatus.

FRONT BUMPER COLOR

The front bumper shall be painted job color.

BUMPER DISCHARGE SWIVEL STOPPER

There shall be a swivel elbow stopper installed just behind the front discharge(s).

BUMPER SIDE WINGS

The bumper shall have steel side wings.

BME Fire Trucks

FRONT BUMPER WINGS COLOR

The front bumper wings shall be painted job color.

FRONT BUMPER BEZEL

The center of the front bumper shall feature a bezel, the bezel shall trim out around the front tow plate and front Whelen Micro Pioneer lights and have an BME logo. The BME logo shall have reflective material behind it.

REFLECTIVE BACKGROUND

Part shall feature a Red reflective background.

AIR HORN

One (1) Buell brand, Model #1063 15" air horn shall be provided and mounted on the frame rail of the passenger's side frame, behind the bumper.

AIR HORN FOOT SWITCH

One (1) foot switch shall be provided and installed. The foot switch shall be located on the driver's side of the floor and shall activate the air horn system.

EXHAUST SYSTEM MODIFICATION

The chassis exhaust system shall be modified to exit on the right hand side of the apparatus ahead of the rear wheel.

EXHAUST HEAT WRAP

The exhaust pipe shall be wrapped with heat wrap from the diesel particulate filter to just shy of the end of the tailpipe.

BUMPER BOX PROTECTIVE FLAP

The protective flap shall be a cut down mud flap installed on the rear edge of the front bumper to eliminate debris from being deposited on the top of the front bumper and in the hose boxes.

REAR MUD FLAPS

The chassis shall be supplied with mud flaps with BME's logo. The mud flaps shall be installed behind the rear wheels.

BME Fire Trucks

LEFT SIDE CAB STEP

The apparatus shall be equipped with a chassis fuel tank and step area. The fuel tank and step area shall be located on the left side of the commercial chassis. The fuel tank shall be covered with aluminum tread plate.

DRIVER'S SIDE UNDER CAB COMPARTMENT

The apparatus shall be equipped with an enclosed stainless steel compartment located under the crew door on the left side of the cab. The compartment shall measure approximately 36" wide x 18" high x 21" deep with a hinged aluminum door and a D-ring style latch.

The doors shall be painted job color.

COMPARTMENT LIGHTING

One (1) Code 3 800 Series Corner LED lights shall be installed in each of the specified compartment(s).

COMPARTMENT LIGHT / DOOR SWITCH

The interior compartment light shall be automatically controlled by a door activated "On-Off" switch. The switch shall be tied to the door ajar system also.

PASSENGER'S SIDE UNDER CAB COMPARTMENT

The apparatus shall be equipped with an enclosed stainless steel compartment located under the crew door on the right side of the cab. The compartment shall measure approximately 37" wide x 13" high x 22" deep with a hinged aluminum door and a D-ring.

The door shall be painted job color.

SLIDE TRAY

A 250# capacity slide tray shall be installed in the specified under cab compartment.

COMPARTMENT LIGHTING

One (1) Code 3 800 Series Corner LED lights shall be installed in each of the specified compartment(s).

COMPARTMENT LIGHT / DOOR SWITCH

BME Fire Trucks

The interior compartment light shall be automatically controlled by a door activated "On-Off" switch. The switch shall be tied to the door ajar system also.

CAB STEPS

Aggressive, extruded aluminum surfaces shall be installed on each of the cab steps areas. The outside edges of the specified step shall be provided with 2" x 1.5" x .250" extruded and knurled aluminum rub rails.

Specified part shall include White reflective striping.

CAB DOOR REFLECTIVE PANELS

The cab doors shall include reflective trim installed inside each door.

Specified part shall include Red and White DOT approved reflective striping.

FRONT AIR RIDE SEATS

CAB SEATING

There shall be (2) Legacy air ride seats installed in the cab. The Legacy seats shall have left and right armrest and have a full recline feature.

The specified seat(s) shall have grey/silver duraleather seat material.

REAR AIR RIDE PEDESTALS

The rear of the apparatus cab shall have two (2) air ride pedestals. One (1) located on each side of the outboard seating positions.

CAB SEATING

There shall be (2) Legacy air ride seats installed in the cab. The Legacy seats shall have left and right armrest and have a full recline feature.

The specified seat(s) shall have grey/silver duraleather seat material.

BATTERY RELOCATION

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The chassis batteries are to be relocated to the passenger side of the chassis, below the rear cab door in a custom made under cab box.

UNDERHOOD LIGHTS

There shall be two (2) Tecniq LED light(s) installed under the hood of the chassis. Lights shall have local switching on the driver side under the hood.

LED HEADLIGHTS REPLACEMENT

The factory halogen headlights shall be replaced with LED headlights. The headlights shall be Truck Lite #27270C 7" LED.

AIR FILTER EMBER PROTECTION SCREEN AND WARNING LABEL

The chassis air intake shall be protected by an ember guard of 18 Mesh, 0.017-inch wire diameter, and a maximum mesh opening of 0.039 inches. The ember guard shall be sized to fit and located at the intake opening. The screen shall be readily accessible for inspection and maintenance. The ember guard shall maintain a minimum ½ inch separation from the air filter.

EMBER SEPARATOR -- FRESH AIR INTAKE TO CAB

The cabin air filter shall be protected by an ember guard with a maximum mesh opening of 0.039 inches.

EMBER SEPARATOR

The final stage manufacturer shall install an ember separator within the fire pump engine air intake system.

FUEL TANK SKID PLATE

A heavy duty removable skid plate shall be fastened to the bottom side of the fuel tank. The skid plate shall have the front and rear sides turned up to prevent digging into the ground when the apparatus is in off road conditions.

EXTERIOR CAB TRIM

A rubber debris skirt will be installed to prevent debris and embers from entering between the cab and frame. The debris skirt will be attached with a 12 gauge stainless steel trim piece the full length along the lower body seam below the cab doors. The trim shall be fastened to the body seam with evenly spaced 10/32 stainless steel Phillips head machine screws and nylock nuts.

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AIR, FUEL, ELECTRICAL LINE PROTECTION

All air lines, fuel lines and electrical harnesses below the chassis frame rails shall be protected with fire resistive sleeves.

FUEL TANK VENTING

The O.E.M fuel tank vent line shall be extended from the fuel tank and vented to the atmosphere. The vent line shall extend vertically from the tank to the bottom of the cab rear window and then bend 180 degrees towards the ground. A vent plug orifice (#60 drill size) shall be installed into the upper end of each line. No fuel tank roll over protection check valves shall be removed from the fuel system. Any chassis fuel system modifications shall be fully compliant CARB regulations, CVC and FMVSS.

All fuel vent lines shall be copper, steel, or Aeroquip hose, and shall be loomed, “grommited”, and firmly clamped in position to prevent chafing or damage and all synflex fuel hoses shall be wrapped with fire wrap lagging capable of withstanding temperatures in excess of 250°C.

The fuel tanks and lines shall be protected as necessary from exhaust heat through the use of heat shields or baffles. Use only metal fasteners, coated or insulated for maximum fuel line protection.

TIRE PRESSURE INDICATOR SYSTEM

There shall be a tire pressure indicator at each tire's valve stem on the vehicle that shall indicate if there is insufficient pressure in the specific tire.

FIRE PUMP SPECIFICATIONS

A Darley model JMP 500 GPM two stage fire pump shall be installed. Power to drive the pump shall be provided by the same engine used to propel the apparatus. The pump shall be equipped with a series-parallel changeover valve control on the pump panel.

Pump casing shall be a fine grain cast iron, with a minimum tensile strength of 30,000 PSI. Pump shall contain a cored heating jacket feature that, if selected, can be connected into the vehicle antifreeze system to protect the pump from freezing in cold climates, and to help reject engine heat from engine coolant, providing longer life for the engine. Seal rings shall be renewable, double labyrinth, wrap around bronze type.

The pump shaft shall be splined to receive broached impeller hubs, for greater resistance to wear, torsional vibration, and torque imposed by engine, as well as ease of maintenance and repair.

Bearings provided shall be heavy duty, deep groove, radial-type ball bearings. Sleeve bearings on

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any portion of the pump or transmission shall be prohibited due to wear, deflection, and alignment concerns. The bearings shall be protected at all openings from road dirt and water splash with oil seals and water slingers.

The impeller shall be a high strength bronze alloy, splined to the pump shaft for precision fit, durability, and ease of maintenance. Impeller shaft oil seals shall be constructed to be free from steel components except for the internal lip spring. The impeller shaft oil seals shall carry a lifetime warranty against damage from corrosion from water and other fire-fighting fluids.

The pump transmission case shall be heavy-duty cast iron with adequate oil reserve capacity to maintain low operating temperature. Pump ratio to be selected by the manufacturers engineering department. Gears shall be helical in design and precision ground for quiet operation and extended life. Gears to be cut from high strength alloy steel, ground, and carburized. Chain drive and/or design requiring extra lubricating pump is not acceptable.

Pump drive shaft shall be precision ground, heat-treated alloy steel, with a 1-3/8 spline. Gears shall be helical design, and shall be precision ground for quiet operation and extended life. The pump transmission shall require no further lubrication beyond that provided by the intrinsic action of the gears, to reduce the likelihood of failure due to loss of auxiliary lubrication.

MECHANICAL SEAL

The mechanical seal shall use silicon carbide mechanical seals with welded springs. The stationary face of our mechanical seals shall be made from silicon carbide, an extremely hard and heat dissipative material, which resists wear and dry running damage.

PUMP SHIFT NO PUMP AND ROLL

The pump transmission shall be engaged by a guarded toggle switch which will lock in both the road and the pump mode to ensure that accidental pump engagement or disengagement is avoided.

The main fire pump shift controls shall be mounted in the cab and identified as "PUMP SHIFT" and shall include a permanently inscribed pump shift instruction I.D. plate. The pump shift controls shall include indicating lights located on the in-cab and left pump panels that advise the operator that the pump shift has been completed and it is O.K. to pump.

The main pump shall be used for stationary pumping only. The main pump shall include a lock-out system that is interfaced with the apparatus electrical and parking brake systems and is designed to keep the main pump from being used in pump and roll operations.

FIRE PUMP ANODE SYSTEM

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The fire pump plumbing system shall be provided with anode system to reduce corrosion within the piping. The anode shall be bolt-in or screw-in type and easily replaceable.

ELECTRIC PRIMER SPECIFICATIONS

A 12 volt electrically driven positive displacement fire pump primer system shall be installed. The priming pump shall be constructed of heat treated aluminum and hard coat anodized and shall not use oil in the operation. The system shall perform in compliance to applicable NFPA standards. A single, push-pull control shall be located on the pump operator's panel with a "Pull to Prime - Push to Close" label.

FIRE PUMP TEST

The fire pump shall undergo factory fire pump tests for a minimum of 30 minutes of continuous pump at rated capacity at rated net pump pressure prior to delivery of the completed apparatus. the complete pump test shall include a pressure control test, a priming system test, a vacuum test and a water tank to pump flow test. The factory pump testing results shall be furnished on delivery.

FIRE PUMP PTO AND DRIVELINES

A "Hot Shift" power-take-off shall be installed on the transmission PTO opening with the controls located in the chassis cab, with an AMBER warning light to note engagement. The drive shaft and universals shall be sized for intended usage and pump rating.

INTAKE DUMP VALVE

An Elkhart model #40/40 intake dump valve shall be provided and mounted on the suction side of the pump. The valve shall be preset from the factory at 125 psi. The discharge piping of the dump valve shall be a minimum of 2-1/2" diameter and shall terminate with a 2-1/2" male NST adapter. The excess water shall be discharged to the ground. A label shall be provided indicating: "DUMP VALVE DISCHARGE, DO NOT CAP".

THERMAL PUMP COOLER

The fire pump shall be equipped with an overheat protection device which monitors the temperature of the water inside the pump and relieves water when the temperature inside the pump exceeds 140 degrees Fahrenheit. The Waterous Model #OPM shall also have an warning light on the pump panel to provide additional protection in the event the temperature inside the pump continues to rise with the overheat protection valve open. The warning light and test button shall be mounted to a heavy polished casting that is mounted to the pump operator's panel.

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MASTER PUMP DRAIN

One (1) Trident, multiple-port drain valve, fabricated from bronze, shall be provided and controlled at the pump operator's control panel. The valve shall be opened by turning a rotary hand wheel. The valve shall be plumbed to drain both the discharge and intake sides of the pump, the relief valve and other plumbing components as required.

The valve shall be placed as low as possible to provide proper drainage of the components plumbed to it. The valve shall be rated to 600 PSI minimum and suitable for daily valve actuation.

MAIN PUMP PLUMBING

The PTO main pump plumbing system shall utilize stainless steel piping incorporating hosing to allow for flex. The piping shall utilize TIG welding to provide a complete seal. Hard angles shall be avoided when possible to improve water flow characteristics. The piping shall utilize Victaulic couplers whenever possible to allow flex as the body module flexes.

Threaded sections of piping shall be avoided to reduce the leak potential of the system. Victaulic couplers shall be used in place of threading to reduce leak potential. Schedule 10 stainless steel piping shall be used for transport type piping. Schedule 40 stainless steel shall be used for areas requiring threading to provide a stable threading base. Brackets shall be installed to support threading locations thereby reducing the potential for leaks.

All hoses shall be connected directly to the tank due to the different flex ratios of the tank to body. Any front discharges, any rear discharges, and all cross lays shall use hose to reach the actual discharge. The use of hose shall be utilized due to the difference in flex or movement between the discharge location and the pump connection. Drain lines shall be provided at the lowest points in the plumbing system to allow for complete drainage. Bleeders shall be provided for all gauges to relieve pressure after use.

PORTABLE PUMP

A Darley 1-1/2AGE 24K portable pump shall be provided on the apparatus. The unit shall have a liquid cooled, 24 HP, Kubota D902 diesel engine equipped with an electric start.

Pump Performance

20 gpm @ 310 psi
140 gpm @ 145 psi
180 gpm @ 80 psi

Diesel Engine

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Kubota, D902 Diesel, water-cooled, 24 hp.

Fuel Supply

The engine shall be piped to the chassis fuel system with provisions to prevent fuel drain back to the tank when the engine is shutdown.

Fuel Prime

A fuel re-prime pump shall be provided to assist in fuel delivery to the diesel engine from the chassis tank.

Lubrication

Pressure feed with spin-on filter.

Starter

12-volt electric wired into the chassis battery system

Exhaust

A spark arrestor shall be provided on the engine exhaust system.

Air Intake

An air cleaner shall be provided with easy access to remove the element.

An ember screen shall be provided on the inlet to the air cleaner.

The aux pump shall be capable of flowing water through the following discharges only.

- Front bumper discharges
- Front bumper monitor (if applicable)
- Booster hose reel
- Cross lay pre connect discharges
- Rear 1-1/2" discharge

DUAL VANGUARD PANELS

The auxiliary pump shall be controlled by a dual Vanguard panel set up, with one IO module. One panel shall be located on the pump panel and one panel shall be located in the cab center console; the IO module shall be located in the pump area. The panels shall be warranted for a period of five (5) years.

AUXILIARY PUMP PLUMBING

The auxiliary fire pump plumbing system shall utilize stainless steel piping incorporating hosing to allow for flex. The piping shall utilize TIG welding to provide a complete seal. Hard angles

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shall be avoided when possible to improve water flow characteristics. The piping shall utilize Victaulic couplers whenever possible to allow flex as the body module flexes.

Threaded sections of piping shall be avoided to reduce the leak potential of the system. Victaulic couplers shall be used in place of threading to reduce leak potential. Schedule 10 stainless steel piping shall be used for transport type piping. Schedule 40 stainless steel shall be used for areas requiring threading to provide a stable threading base. Brackets shall be installed to support threading locations thereby reducing the potential for leaks.

All hoses shall be connected directly to the tank due to the different flex ratios of the tank to body. Any front discharges, any rear discharges, and all cross lays shall use hose to reach the actual discharge. The use of hose shall be utilized due to the difference in flex or movement between the discharge location and the pump connection.

AUXILIARY PUMP EXHAUST SYSTEM

The auxiliary fire pump and engine assembly shall have a muffler and exhaust pipe. The exhaust pipe shall be directed out of the compartment and away from the pump operator. An additional guard shall be installed where the pipe is exposed to touch by an operator.

PRIMER ASSEMBLY

The auxiliary pump shall use the main pump primer to prime the pump.

LOW PRESSURE PUMP SHUT-DOWN

If the fire pump runs out of water and the pressure decreases below 15 PSI, an automatic pressure switch shall detect the condition, and turn off the fire pump operation.

LOW OIL PRESSURE / HIGH TEMPERATURE PUMP SHUT-DOWN

If the fire pump has low oil pressure or high engine temperature, automatic pressure switches shall detect the condition, and the device shall turn off the fire pump operation. There shall be an override switch provided and installed on the operators pump panel to allow the system to be disabled when required.

AUXILIARY FUEL SYSTEM

The fuel system for the auxiliary fire pump shall be plumbed to the chassis fuel system. There shall be a separate fuel pickup tube mounted in the chassis fuel tank specifically for a separate engine driven pump assembly. There shall be an electric fuel pump with regulator and fuel hose furnished between the chassis fuel tank and the auxiliary pump.

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AUXILIARY FIRE PUMP ELECTRIC START WIRING TO CHASSIS

Properly sized 12 volt positive and negative cables shall be provided from the chassis battery to the auxiliary fire pump.

AUXILIARY AND MAIN PUMP PLUMBING

The auxiliary fire pump shall be plumbed to the main pump discharge.

AUXILIARY PUMP OIL DRAIN EXTENSION

There shall be an oil drain extension installed on the auxiliary pump. This will allow for the engine oil to be drained without removing the auxiliary engine.

AUXILIARY PUMP COVER

A louvered hinged cover with suitable latches shall be provided over the pump and power unit assembly. The area around the assembly shall remain open for maintenance and air circulation and the radiator shall be located behind ventilated side sheet.

The specified compartment shall have no compartment lighting.

DOOR AJAR SENSOR

The Specified door(s) shall feature a magnetic proximity switch to indicate when the compartment door is ajar.

PUMP COOLER

The fire pump shall be equipped with 1/4" cooling line from the discharge side of the main pump to the water tank.

This line will be designed to circulate water when the engine cooler valve is open and to maintain the pump/engine water temperature at a safe level. A check valve will be installed in the return line to ensure the ability to pull a vacuum during pumping operations.

This re-circulation line shall be controlled by a pump panel control valve with nameplate label noting it as the "pump cooler".

4" UNGATED INTAKE -- LEFT SIDE

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One (1) 4" un-gated suction intake shall be installed on the left side pump panel to supply the fire pump from an external water supply. The threads shall be 4" NH male and equipped with a removable screen and a chrome brass cap.

One (1) chrome brass 4" NH rocker lug cap with a securing chain or cable shall be installed on the intake.

2-1/2" GATED INTAKE -- LEFT SIDE

One (1) 2-1/2" gated suction intake shall be recessed mounted on the left side pump panel to supply the fire pump from an external water supply. The valve shall be a quarter-turn ball valve with the appropriate handle and shall have 2-1/2" NH female thread.

The discharge outlet shall be equipped with a South Park Corp. 3/4" Push-pull type drain valve mounted to the bottom of the valve.

One (1) Akron 8825 series swing-out style valve(s) shall be supplied and installed. All valves shall be designed to operate under normal conditions up to 500 PSI and shall have dual seats to work in both pressure and vacuum environments. All valves and controls shall be easily accessible for service, repair or replacement.

The specified valve shall have a direct actuated 'local' control Akron Model TSC valve handle.

One (1) chrome brass 2-1/2" NH rocker lug plug with a securing chain or cable shall be installed on the intake.

2-1/2" GATED INTAKE -- RIGHT SIDE

One (1) 2-1/2" gated suction intake shall be recess mounted on the right side pump panel to supply the fire pump from an external water supply. The valve shall be a quarter-turn ball valve with the appropriate handle and shall have 2-1/2" NH female thread.

The discharge outlet shall be equipped with a South Park Corp. 3/4" Push-pull type drain valve mounted to the bottom of the valve.

One (1) Akron 8825 series swing-out style valve(s) shall be supplied and installed. All valves shall be designed to operate under normal conditions up to 500 PSI and shall have dual seats to work in both pressure and vacuum environments. All valves and controls shall be easily accessible for service, repair or replacement.

The specified valve shall have a direct actuated 'local' control Akron Model TSC valve handle.

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One (1) chrome brass 2-1/2" NH rocker lug plug with a securing chain or cable shall be installed on the intake.

WATER TANK SUPPLY LINE TO FIRE PUMP

A 3" water tank to pump line shall be installed, with a 3" full flow quarter turn ball valve and 3" piping. The line shall be equipped with a hump hose with stainless steel hose clamps and a 3" check valve to prevent pressurization of the water tank.

One (1) Akron 8830 series swing-out style valve(s) shall be supplied and installed. All valves shall be designed to operate under normal conditions up to 500 PSI and shall have dual seats to work in both pressure and vacuum environments. All valves and controls shall be easily accessible for service, repair or replacement.

The specified valve shall have a direct actuated 'local' control Akron Model TSC valve handle.

The 3" valve shall be equipped with an air operated cylinder and control actuator installed on pump panel.

PUMP TO TANK

There shall be a pump to tank line provided from the discharge side of the pumps and plumbed to the top of the tank. The plumbing shall be 2-inch with a 2-inch Akron 8800 series 1/4-turn full flow ball valve, and shall be controlled at the left pump panel by a push/pull T-handle and linkage. The pump to tank shall be plumbed to flow water from both the main and auxiliary pumps

One (1) Akron 8820 series swing-out style valve(s) shall be supplied and installed. All valves shall be designed to operate under normal conditions up to 500 PSI and shall have dual seats to work in both pressure and vacuum environments. All valves and controls shall be easily accessible for service, repair or replacement.

The valve shall be equipped with a Thuemling manually operated pull rod, with quarter-turn locking feature.

2-1/2" DISCHARGE LEFT SIDE -- FORWARD PUMP PANEL

One (1) 2-1/2" discharge shall be installed on the left side forward pump panel area controlled by a quarter turn ball valve with the appropriate handle. The discharge shall have 2-1/2" NH male hose threads, bleeder valve, and chrome brass cap, with a label adjacent the control handle.

A Class 1 quarter-turn 3/4" drain and bleeder valve shall be installed on the discharge valve.

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One (1) Akron 8825 series swing-out style valve(s) shall be supplied and installed. All valves shall be designed to operate under normal conditions up to 500 PSI and shall have dual seats to work in both pressure and vacuum environments. All valves and controls shall be easily accessible for service, repair or replacement.

The specified valve shall have a direct actuated 'local' control Akron Model TSC valve handle.

(1) chrome brass 2.5" NH rocker lug cap with a securing chain or cable shall be installed on the discharge.

2.5" DISCHARGE -- REAR LEFT

One (1) 2.5" discharge shall be installed on the rear left panel with controlled by a quarter turn ball valve. The discharge shall have 2.5" NH male hose threads and nameplate label adjacent the control handle.

One (1) Akron 8825 series swing-out style valve(s) shall be supplied and installed. All valves shall be designed to operate under normal conditions up to 500 PSI and shall have dual seats to work in both pressure and vacuum environments. All valves and controls shall be easily accessible for service, repair or replacement.

The specified valve shall have a direct actuated 'local' control Akron Model TSC valve handle.

(1) chrome plated brass 30 degree elbow with 2.5" swivel female NH x 2.5" male NH thread with rocker lugs shall be provided on the discharge.

(1) chrome brass 2.5" NH rocker lug cap with a securing chain or cable shall be installed on the discharge.

2" DISCHARGE -- REAR RIGHT

One (1) 2" discharge shall be installed on the rear right panel, controlled by a quarter turn ball valve on pump panel. The discharge shall have 2" NPT x 1-1/2" NH male hose threads and nameplate label adjacent the valve control handle.

One (1) Akron 8820 series swing-out style valve(s) shall be supplied and installed. All valves shall be designed to operate under normal conditions up to 500 PSI and shall have dual seats to work in both pressure and vacuum environments. All valves and controls shall be easily accessible for service, repair or replacement.

The specified valve shall have a direct actuated 'local' control Akron Model TSC valve handle.

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One (1) chrome plated brass reducing adapter with a 2" swivel female NH x 1.5" male NH thread with rocker lugs shall be provided on the discharge.

One (1) chrome plated brass 30 degree elbow with 1.5" swivel female NH x 1.5" male NH thread with rocker lugs shall be provided on the discharge.

One (1) chrome plated brass 1.5" NH rocker lug cap with a securing chain or cable shall be installed on the discharge.

1-1/2" CROSSLAY DISCHARGES

Two (2) pre-connected 1-1/2" hose cross lays shall be installed over pump enclosure. One (1) each side. They shall be arranged in a single stack design with a divider in the center of the storage area. Each storage area shall extend from the side of the pump house to the center of the pump house. The dimensions shall be approximately 4-1/2" wide x 36" deep x 32" tall.

Two (2) Akron 8820 series swing-out style valve(s) shall be supplied and installed. All valves shall be designed to operate under normal conditions up to 500 PSI and shall have dual seats to work in both pressure and vacuum environments. All valves and controls shall be easily accessible for service, repair or replacement.

The specified valve shall have a direct actuated 'local' control Akron Model TSC valve handle.

The crosslay hosebed shall be equipped with an aluminum diamond plate hinged cover and vinyl end flap enclosures on each side, installed in compliance with applicable NFPA #1901 standards. The cover shall be equipped with rubber bumpers and lift up handle on each end of the cover.

The specified crosslay flaps shall be red.

CROSSLAY EDGES

The crosslay side sheets shall be rolled on each side to act as a guide for the hose to come out of the tray.

One (1) chrome plated brass reducing adapter with a 2" swivel female NH x 1.5" male NH thread with rocker lugs shall be provided on the discharge.

One (1) chrome plated brass 1.5" NH rocker lug cap with a securing chain or cable shall be installed on the discharge.

1-1/2" BUMPER AREA DISCHARGE (LEFT SIDE)

One (1) 2" discharge shall be provided at the driver's side of the front bumper extension. The

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discharge shall be plumbed with 2" flexible high pressure hose with reusable fittings or welded stainless steel pipe. The front bumper discharge shall be equipped with a 2" quarter turn ball valve. The discharge shall have a 90 degree full swivel elbow, terminating in 1-1/2" NST male threads, to allow the hose to be pulled in any direction without kinking.

One (1) Akron 8820 series swing-out style valve(s) shall be supplied and installed. All valves shall be designed to operate under normal conditions up to 500 PSI and shall have dual seats to work in both pressure and vacuum environments. All valves and controls shall be easily accessible for service, repair or replacement.

The specified valve shall have a direct actuated 'local' control Akron Model TSC valve handle.

One (1) chrome plated brass 1.5" NH rocker lug cap with a securing chain or cable shall be installed on the discharge.

1-1/2" BUMPER AREA DISCHARGE (RIGHT SIDE)

One (1) 1-1/2" discharge, labeled #3, shall be provided at the passenger's side of the front bumper extension. The discharge shall be plumbed with 2" flexible high pressure hose with reusable fittings or welded stainless steel pipe. The front bumper discharge shall be equipped with a 2" quarter turn ball valve. The discharge shall have a 90 degree full swivel elbow, terminating in 1-1/2" NST male threads, to allow the hose to be pulled in any direction without kinking.

One (1) Akron 8820 series swing-out style valve(s) shall be supplied and installed. All valves shall be designed to operate under normal conditions up to 500 PSI and shall have dual seats to work in both pressure and vacuum environments. All valves and controls shall be easily accessible for service, repair or replacement.

The specified valve shall have a direct actuated 'local' control Akron Model TSC valve handle.

2" ISOLATION VALVE

One (1) 2" inline valve, labeled, shall be provided to isolate the front bumper extension discharge piping in the case of a hose or piping failure. This valve shall normally be left in the open position. Control for this valve shall be through the use of a R1 handle, painted red, located at the valve.

One (1) Akron 8820 series swing-out style valve(s) shall be supplied and installed. All valves shall be designed to operate under normal conditions up to 500 PSI and shall have dual seats to work in both pressure and vacuum environments. All valves and controls shall be easily

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accessible for service, repair or replacement.

The specified valve shall have a direct actuated 'local' control Akron Model TSC valve handle.

HOSE REEL

One (1) Hannay aluminum hose reel Model #SBSEPF17-28-29-RT shall be installed. The reel shall have leak proof ball bearing swing joint, adjustable friction brake, electric 12 volt rewind and manual crank rewind provisions. The reel shall be plumbed with wire reinforced, high-pressure hose coupled with brass fittings. The reel shall be designed to hold 125% of the specified hose capacity.

The reel shall be provided with a 12 volt electric motor of appropriate size for rewinding. The hose reel shall have provisions for being rewound manually. The pinion shaft for the manual rewind gear shall be equipped with an adjustable tension brake, controlled at the hose reel.

One (1) Akron 8810 series swing-out style valve(s) shall be supplied and installed. All valves shall be designed to operate under normal conditions up to 500 PSI and shall have dual seats to work in both pressure and vacuum environments. All valves and controls shall be easily accessible for service, repair or replacement.

The specified valve shall have a direct actuated 'local' control Akron Model TSC valve handle.

HOSE REEL MOUNTING

The hose reel shall be mounted over the pump enclosure.

Two (2) Cole Hersee #M-608 push button hose reel rewind controls shall be installed supplied and installed to rewind the hose reel. One (1) button shall be installed on the left pump panel and one (1) button shall be installed on the right panel.

HOSE REEL ROLLERS

The hose reel shall include one horizontal and two vertical chrome fairlead rollers. Two (2) additional sets of fair lead rollers shall be located on the auxiliary pump cover for guiding the hose across the top of the apparatus.

FOAM SYSTEM

A FoamPro electronic foam system shall be provided. The system shall be designed for use with Class A foam concentrate. The foam proportioning operation shall be designed for direct measurement of water flows and shall remain consistent within the specified flows and pressures.

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The system shall be capable of accurately delivering foam solution as required by applicable sections of the NFPA standards.

The system shall be equipped with a control module suitable for installation on the pump panel. There shall be a microprocessor incorporated within the motor driver that shall receive input from the system's flowmeter, while also monitoring the foam concentrate pump output. The microprocessor shall compare the values to ensure that the desired amount of foam concentrate is injected onto the discharge side of the fire pump. A "foam capable" paddlewheel-type flowmeter shall be installed in the discharge side of the piping system.

The control module shall enable the pump operator to:

- Activate the foam proportioning system
- Select the proportioning rates from 0.1% to 1.0%
- See a "low concentrate" warning light flash when the foam tank level becomes low and in two (2) minutes, if the foam concentrate has not been added to the tank, the foam concentrate pump shall be capable of shutting down.

A 12-volt electric motor driven positive displacement plunger pump shall be provided. The pump capacity range shall be 0.1 to 1.7 GPM (6.4L/min) at 200 PSI (13.8 BAR) with a maximum operating pressure up to 400 PSI (27.6 BAR). The system shall draw a maximum of 30 amps at 12 volts. The motor shall be controlled by the microprocessor which shall be mounted to the base of the pump. It receives signals from the control module and powers the 1/3 horsepower (.25 Kw) electric motor in a variable speed duty cycle to ensure that the correct proportion of concentrate is injected into the water stream.

A full flow check valve shall be provided in the discharge piping to prevent foam contamination of the fire pump and water tank. A 5 PSI (.35 BAR) opening pressure check valve shall be provided in concentrate line.

Components of the complete proportioning system as described above shall include:

- Operator control module
- Paddlewheel flowmeter
- Pump and electric motor/motor driver
- Wiring harnesses
- Low level tank switch
- Foam tank
- Foam injection check valve
- Main waterway check valve
- Flowmeter and tee

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The foam system shall be installed and calibrated to manufacturer's requirements. In addition the system shall be tested and certified by the apparatus manufacturer to applicable NFPA standards.

The foam system design shall be tested and pass environmental testing in accordance to SAE standards.

An installation and operation manual shall be provided for the unit. The system shall have a one (1) year limited warranty by the foam system manufacturer.

The FoamPro 1601 Series foam system shall be provided with a control cable from the controller to the foam pump assembly.

The FoamPro 1601 Series foam system shall be provided with a standard pump panel mounted FoamPro control head.

A FoamPro brass flowmeter shall be provided. The flowmeter shall be installed in the "foam capable" discharge line. The flowmeter shall have maximum accuracy between the flow range of 10 GPM and 320 GPM and be capable of operation between 3 GPM to 380 GPM. The tee shall have NPT and Victaulic inlet and outlets connections.

A FoamPro instruction and system rating label shall be provided. The label shall display information for a FoamPro 1601 Series foam system and shall meet applicable sections of the NFPA standards.

FOAM SYSTEM OUTLETS

The following discharges shall have foam distributed to them.

- Front bumper discharges
- Front bumper monitor (if applicable)
- Pump house crosslay pre connects
- Booster hose reel
- Rear 1-1/2" discharge

FOAM SYSTEM CAB CONTROL

A FoamPro on-off control switch shall be installed in the cab console.

FOAM UPLOAD SYSTEM

There shall be a Hale EZ Foam upfill system supplied and installed on the apparatus.

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PUMP MODULE ENCLOSURE

The PTO fire pump enclosure shall be a separate unit from the body unit and shall be attached and supported at the chassis frame rails. This module shall allow for independent flexing of the pump enclosure from the body, chassis, and tank, and shall permit quick removal. The module shall have Polypro mounting pads and shall be attached to the frame rails. The bolt-on pump enclosure support structure shall be constructed of steel tubing.

The pump enclosure shall be approximately 27" front to rear, 72" right to left, and 60" high.

PUMP ENCLOSURE RUNNING BOARD

Both the drivers and passenger side shall be equipped with a side running board a minimum of 12" deep. The running board shall extend along the width of the pump enclosure from the forward end of the body module to behind the chassis cab. The exterior edge of the running board shall be constructed of a non-slip aggressive surface, supported by the pump enclosure framework, and bolted in place with stainless steel fasteners. The outside edges of the specified step shall be provided with 2" x 1.5" x .250" extruded and knurled aluminum rub rails.

Specified part shall include White reflective striping.

PUMP ACCESS SERVICE DOOR -- UPPER LEFT SIDE

The upper left side of the side mount pump enclosure shall be provided with a pump service access door. The hinged door shall be constructed of stainless steel with push button type lever latches for service access.

PUMP PANELS

The pump panels shall be constructed of stainless steel, bolted to the pump enclosure with stainless steel fasteners.

MASTER PUMP DISCHARGE AND INTAKE GAUGES

MASTER INTAKE PRESSURE GAUGE

One (1) master intake pressure gauge shall be provided on the operator's panel, located close to, and to the left of, the master discharge pressure gauge. The gauge shall be a Span brand, or equivalent, 30-0-150 PSI graduated, with a minimum diameter of 4-1/2", backlit for nighttime operations and silicone liquid filled to prevent condensation inside the gauge and to dampen the movement.

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The gauge housing shall be constructed of Zytel nylon with a 1/4" NPT brass male fitting centrally located on the rear of the housing. The gauge shall be filled with low-temperature liquid with an operating range of -40 to +150 degrees Fahrenheit, which prevents bouncing of the readout needle and provides for an accuracy rating of 3% or 1" hg on the vacuum side and 5% or 15 PSI on the pressure side of the gauge.

The specified gauge shall feature a drain located at the gauge inlet to help prevent freezing. The drain shall be a twist open and close type.

Gauge(s) shall include internal, back-lit 12 volt lighting. Replaceable, White, LED bulb in a water-resistant holder.

Gauge(s) shall be supplied with a white dial face with black lettering and black gauge marks.

Gauge bezel shall be Chrome in color.

MASTER DISCHARGE PRESSURE GAUGE

One (1) master discharge pressure gauge shall be provided on the operator's panel, located close to, and to the right of, the master intake pressure gauge. The gauge shall be a Span brand, or equivalent, 0-600 PSI graduated, with a minimum diameter of 4-1/2", backlit for nighttime operations and silicone liquid filled to prevent condensation inside the gauge and to dampen the movement.

The gauge housing shall be constructed of Zytel nylon with a 1/4" NPT brass male fitting centrally located on the rear of the housing. The gauge shall be filled with low-temperature liquid with an operating range of -40 to +150 degrees Fahrenheit, which prevents bouncing of the readout needle and provides for an accuracy rating of 5% or 15 PSI on the pressure side of the gauge.

Gauge(s) shall include internal, back-lit 12 volt lighting. Replaceable, White, LED bulb in a water-resistant holder.

Gauge(s) shall be supplied with a white dial face with black lettering and black gauge marks.

Gauge bezel shall be Chrome in color.

TEST TAPS

Test taps for pump intake and pump pressure with name plate labels shall be provided on the pump instrument panel.

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PRESSURE GOVERNOR and ENGINE MONITORING DISPLAY

Fire Research PumpBoss series PBA201-D00 pressure governor and monitoring display kit shall be installed. The kit shall include a control module, discharge pressure sensor, and cables. The control module case shall be waterproof and have dimensions not to exceed 6 3/4" high by 4 5/8". The control knob shall be 2" in diameter with no mechanical stops, have a serrated grip, and a red idle push button in the center. It shall not extend more than 1 3/4" from the front of the control module. Inputs for monitored engine information and outputs for engine control shall be on the J1939 databus. Input from the pump discharge pressure sensor shall be electrical.

The following continuous displays shall be provided:

- Engine RPM; shown with four daylight bright LED digits more than 1/2" high
- Check engine and stop engine warning LEDs
- Engine oil pressure; shown on a dual color (green/red) LED bar graph display
- Engine coolant temperature; shown on a dual color (green/red) LED bar graph display
- Transmission Temperature: shown on a dual color (green/red) LED bar graph display
- Battery voltage; shown on a dual color (green/red) LED bar graph display
- Pressure and RPM operating mode LEDs
- Pressure / RPM setting; shown on a dot matrix message display
- Throttle ready LED.

The dot-matrix message display shall show diagnostic and warning messages as they occur. It shall show monitored apparatus information, stored data, and program options when selected by the operator. All LED intensity shall be automatically adjusted for day and night time operation. The program shall store the accumulated operating hours for the pump and engine to be displayed with the push of a button. It shall monitor inputs and support audible and visual warning alarms for the following conditions:

- High Battery Voltage
- Low Battery Voltage (Engine Off)
- Low Battery Voltage (Engine Running)
- High Transmission Temperature
- Low Engine Oil Pressure
- High Engine Coolant Temperature
- Out of Water (visual alarm only)
- No Engine Response (visual alarm only).

The program features shall be accessed via push buttons located on the front of the control module. There shall be a USB port located at the rear of the control module to upload future firmware enhancements.

The governor shall operate in two control modes, pressure and RPM. No discharge pressure or engine RPM variation shall occur when switching between modes. A throttle ready LED shall light when the interlock signal is recognized. The governor shall start in pressure mode and set

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the engine RPM to idle. In pressure mode the governor shall automatically regulate the discharge pressure at the level set by the operator. In RPM mode the governor shall maintain the engine RPM at the level set by the operator except in the event of a discharge pressure increase. The governor shall limit a discharge pressure increase in RPM mode to a maximum of 30 psi. Other safety features shall include recognition of no water conditions with an automatic programmed response and a push button to return the engine to idle.

The pressure governor and display shall be programmed to interface with a Cummins engine.

WATER TANK GAUGE

One (1) Fire Research TankVision model WLA300-A00-S20 tank gauge shall be installed on the pump panel. The water tank indicator kit shall include an electronic indicator module, a pressure sensor, and a 10' sensor cable. The indicator shall show the volume of water in the tank on nine (9) easy to see super bright LEDs.

The specified level gauge shall be active anytime the chassis battery switch is turned on.

CAB MOUNTED -- WATER TANK GAUGE

One (1) Fire Research brand, Model WLA205-A00 tank level gauge, shall be provided on the cab center console, within view of the driver's seating position, to monitor the water tank liquid level. The gauge shall indicate the water tank liquid level on an LED bar graph display, and shall be wired in common with the sensor circuit for the pump operator's panel-mounted gauge.

The specified level gauge shall be active anytime the chassis battery switch is turned on.

WATER TANK VOLUME REMOTE INDICATOR

Two (2) Fire Research TankVision model WLA280-A00 tank remote indicator shall be installed. The indicator shall show the volume of water in the tank on Ninety six (96) easy to see super bright Tri-color LEDs. The indicator case shall be waterproof, manufactured of Polycarbonate material with an integrated lens. The package includes a rubber gasket.

The remote indicator shall receive input information over a datalink from a Fire Research TankVision primary indicator model WLA200-A00, WLA300-A00 or WLA400-A00. The remote indicator shall indicate the level as a single color in Red for 25% or less, Amber color for up to 50% volume, Blue color for up to 75% volume and Green color for up to 100% volume. When the level reaches 25%, the red LEDs will begin flashing. When the level is empty, the red LEDs will scroll in a down-chasing motion and then flash three times. It shall have the program capability to adjust the brightness level for day time and nighttime viewing.

The specified level gauge shall be active anytime the chassis battery switch is turned on.

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CLASS A FOAM TANK GAUGE

One (1) Fire Research brand, Model WLA360-A00 tank level gauge shall be provided on the pump operator's panel to monitor the foam concentrate storage tank level. The gauge shall indicate the foam concentrate storage tank liquid level on an LED bar graph display.

The specified level gauge shall be active anytime the chassis battery switch is turned on.

CAB MOUNTED -- CLASS A FOAM TANK GAUGE

A Fire Research TankVision model WLA265-A00 miniature foam tank gauge shall be installed in the cab. The miniature foam tank indicator shall show the volume of Class A foam concentrate in the tank on five (5) easy to see super bright LEDs. A wide view lens over the LEDs shall provide for a viewing angle of 180 degrees.

The specified level gauge shall be active anytime the chassis battery switch is turned on.

NOMENCLATURE PLATES

The apparatus shall be equipped with color coded labels. The labels shall be furnished for discharges, intakes, and for other controls and indicators. All labels shall be in English format.

MIDSHIP PUMP PANEL LIGHTS -- LEFT SIDE

There shall be three Tecniq brand LED lights installed under a stainless steel light shield mounted above the pump panel. The two outer lights shall be operated by a panel mounted switch, while the middle light will only be activated upon pump engagement.

One (1) of the pump panel lights shall illuminate at the time the fire pump is engaged.

MIDSHIP PUMP PANEL LIGHTS -- RIGHT SIDE

There shall be one Tecniq brand LED light installed under a stainless steel light shield mounted above the pump panel. The light shall activate upon pump engagement.

PUMP ENCLOSURE WORK LIGHTS

Two (2) LED work lights shall be installed in the pump enclosure. The work lights shall have clear lenses and shall have a control switch.

DESIGN AND SCOPE OF WILDLAND BODY

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The body shall be designed and constructed of commonly available structural components for ease of repair and maintenance. The body shall be of a modular design with the body structure independent of the chassis frame rails. The body module shall be mounted to the chassis frame rails utilizing a unique double spring mounting system for flexibility and durability over the lifetime of the apparatus. The fabrication of the body shall be of welded construction to withstand the rigors of fire service use.

The body shall be designed to incorporate and support the tank, hose bed, compartments, and all other equipment intended to be stored in or mounted to the body module. The body skeleton and compartment framework shall be designed of tubular members for increased strength and stress resistance. There shall be no sheet metal or extrusions utilized in the foundation or structural components of the body module due to their critical role in assuring lifetime durability, functionality and usability.

BODY FRAMEWORK

The entire body framework shall be fabricated from steel tubing. The body framework shall be a completely welded unit, forming a connected, stable frame for strength, longevity and providing the skeleton of the body module. The internal upright members of the framework shall act as support for the top layer of the body module. The external upright members shall act as an exoskeleton providing form and support for compartments while acting as the external surfaces of the module. The framework shall define the compartment openings and provide a rigid mounting location for all compartments and doors.

The foundation cross-members shall be placed perpendicular to the chassis frame rails in the wheel well area extending the full width of the body and shall be constructed of 3 inch high x 2 inch wide x .25 inch tubing. The foundation members parallel to the chassis frame rails shall be constructed of 3 inch square x .25 inch tubing and shall connect the foundation cross members and extend the full length of the body.

All tank support cross members shall be placed to support the water tank as per the tank manufacture's recommendation. These supports shall be constructed of 3 inch high x 2 inch wide x .25inch steel tubing. The tank support angles shall be constructed of 4 inch x 4 inch x .25 inch thick angles and shall be placed at the tank sides parallel to the chassis frame rails to provide lateral support for the tank and protection from debris from the wheels.

The internal upright supports for top layer components shall be placed to provide support for all components located on the top layer of the body module and shall be constructed of steel tubing measuring 2 inch square x .25 inch wall thickness. All front to rear connecting members shall be 3 inches high x 2 inches wide x .125 inch wall thickness and shall be placed in between the interior upright support members to provide rigidity, stability and support to all top layer components. All gussets shall be constructed of 2 inches high x 3 inches wide x .25 inch thick

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plate which shall be placed on the top and bottom of the foundation cross members where they intersect with the exterior members.

BODY MOUNTING SYSTEM

The mounting assembly shall be designed to isolate and protect the body module from vibration and twisting stresses imparted by the flexing of the chassis frame rails. The body module shall employ spring loaded body mounting assemblies. Each two piece mounting assembly shall be designed to positively position the body on the frame rails while allowing lateral and forward or aft movement. Mounting assemblies shall be placed forward and rearward of the rear axle as necessary to provide a strong and stable mounting of the body module

Each mounting assembly shall consist of a “male” upper mounting bracket and a “female” lower mounting bracket. The upper mounting brackets shall be fabricated from .25 inch thickness steel plate, with .250 inch painted steel lower mounting brackets. The upper mounting brackets shall be welded directly to the foundation connecting members. The lower mounting brackets shall be bolted to the exterior side facing surface of the chassis frame rails.

The mounting brackets shall be aligned and connected by two (2) 5/8 inch diameter grade 8 bolts equipped with compression springs. The springs shall be of the appropriate tension rating for the weight requirements of the body module. The mounting assembly shall be designed to completely eliminate sheering forces on the mounting bolts.

The foundation connecting members shall be placed on top of the chassis frame rails for added strength and stability. The foundation members shall be isolated from the steel chassis frame rails by .25 inch thickness steel plates which have .5 inch thick 80 durometer rubber pads vulcanized to the bottom surface of each plate. The steel plates shall be welded to the bottom of the foundation, doubling as additional gussets at foundation cross member joints.

COMPARTMENT FLOOR, RECESSED

Each compartment shall feature a recessed floor, sufficient enough so the lip of the compartment shall prevent compartment contents from sliding easily from the compartment when parked on side hills.

BODY MATERIAL

All materials utilized shall be of the correct type, alloy, and thickness to withstand the intended usage and provide protection against cracking, corrosion or metal fatigue. The body compartments shall be fabricated using 14 gauge steel for most compartments unless otherwise stated. Any use of proprietary parts or materials in the construction of the body shall be

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unacceptable, due to potential delays or difficulties in an unlikely event of future repairs or when service becomes necessary.

All external upright supports for integral compartments shall incorporate a second set of upright supports constructed of 3 inch wide x 2 inch deep x .250 inch wall thickness and shall be located outboard of the internal upright supports to provide a rigid structure for the compartments to be mounted to. The compartment openings shall be constructed of 3 inch high x 2 inch wide x .125 inch wall thickness cross members and shall be placed in between the external upright supports to define the openings of all enclosed body compartments again, providing a rigid mounting location for compartments.

COMPARTMENTATION

All compartments shall be constructed of 14 gauge E.G. steel welded for strength and shall be sealed from the elements. The compartments shall be attached to the steel superstructure only, in order to maintain a truly modular design. Each compartment shall feature a smooth edges and surfaces from the walls to each weld without burs or sharp edges in the material.

DRIVER'S SIDE BODY COMPARTMENTS

COMPARTMENT D1

One compartment shall be provided on the driver's side of the apparatus body above the rear wheels. This compartment shall span from just behind the pump panel to the back of the rear wheel well quarter panel. The compartments approximate "clear door opening" is 51" wide by 39" high with a variable depth of 13.5/23".

COMPARTMENT VENTILATION

A minimum 2-inch single "Weber" style polished stainless steel swivel vent with four (4) ¼-inch vent holes shall be provided. These vents shall have a stainless steel center bolt to lock the vent in either the open or closed position and be located in the compartment walls. All vents will contain fire resistant filters to minimize dust entering the compartment.

COMPARTMENT FLOOR DRAIN

The compartment shall be provided with rear corner floor drains to the underside of the body.

COMPARTMENT SILL PLATE

The compartment shall feature a polished stainless steel sill plate protecting the painted surface of the compartment when items are accessed.

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AJUSTABLE UNISTRUT

Adjustable Uni-Strut equipment mounting tracks shall be installed inside the compartment with two (2) channels on the left wall and two (2) channels on the right wall. The tracks shall be positioned to provide support for equipment mounting. The length of the tracks shall be sized to allow for optimum use of the compartment interior.

Adjustable Uni-Strut equipment mounting tracks shall be installed inside the compartment with two (2) horizontal channels on the back wall of the compartment.

ADJUSTABLE SHELF

There shall be (1) adjustable shelf installed; and the shelf shall be constructed of .125" thick smooth aluminum plate and be mounted in the specified compartment with double bolt aluminum shelf brackets. The shelf shall have a broken front edge, and a broken rear edge for added strength and reinforcement.

COMPARTMENT SHELF GRATING

The specified compartment shelf shall be fitted with removable interlocking vinyl Dri-Dek grating. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

The specified Dri-Deck grating shall be black in color.

The compartment shelf and or shelves shall have reflective striping added to the outside lip. The stripe shall be a 1-1/2" minimum in width.

Specified part shall include Red and White DOT approved reflective striping.

COMPARTMENT GRATING

The compartments shall be fitted with removable interlocking vinyl Dri-Dek grating. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

The specified Dri-Deck grating shall be black in color.

COMPARTMENT LIGHTING

The specified compartment shall have two vertical and one horizontal Code 3 800 series lights installed.

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DOOR AJAR SENSOR

The Specified door(s) shall feature a magnetic proximity switch to indicate when the compartment door is ajar.

COMPARTMENT D2

One full height compartment shall be provided on the driver's side of the apparatus body aft of the rear wheels. This compartment shall span from behind the rear wheel well quarter panel to the rear of the body in width and from the top of the body to the rub rail in height. The compartments approximate "clear door opening" is 34" wide by 58" high with a variable depth of 13.5"/22.5".

COMPARTMENT VENTILATION

A minimum 2-inch single "Weber" style polished stainless steel swivel vent with four (4) ¼-inch vent holes shall be provided. These vents shall have a stainless steel center bolt to lock the vent in either the open or closed position and be located in the compartment walls. All vents will contain fire resistant filters to minimize dust entering the compartment.

COMPARTMENT FLOOR DRAIN

The compartment shall be provided with rear corner floor drains to the underside of the body.

COMPARTMENT SILL PLATE

The compartment shall feature a polished stainless steel sill plate protecting the painted surface of the compartment when items are accessed.

AJUSTABLE UNISTRUT

Adjustable Uni-Strut equipment mounting tracks shall be installed inside the compartment with two (2) channels on the left wall and two (2) channels on the right wall. The tracks shall be positioned to provide support for equipment mounting. The length of the tracks shall be sized to allow for optimum use of the compartment interior.

Adjustable Uni-Strut equipment mounting tracks shall be installed inside the compartment with two (2) horizontal channels on the back wall of the compartment.

ADJUSTABLE SHELF

There shall be (1) adjustable shelf installed; and the shelf shall be constructed of .125" thick smooth aluminum plate and be mounted in the specified compartment with double bolt

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aluminum shelf brackets. The shelf shall have a broken front edge, and a broken rear edge for added strength and reinforcement.

COMPARTMENT SHELF GRATING

The specified compartment shelf shall be fitted with removable interlocking vinyl Dri-Dek grating. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

The specified Dri-Deck grating shall be black in color.

The compartment shelf and or shelves shall have reflective striping added to the outside lip. The stripe shall be a 1-1/2" minimum in width.

Specified part shall include Red and White DOT approved reflective striping.

COMPARTMENT GRATING

The compartments shall be fitted with removable interlocking vinyl Dri-Dek grating. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

The specified Dri-Deck grating shall be black in color.

COMPARTMENT LIGHTING

The specified compartment shall have two vertical and one horizontal Code 3 800 series lights installed.

DOOR AJAR SENSOR

The Specified door(s) shall feature a magnetic proximity switch to indicate when the compartment door is ajar.

RIGHT SIDE BODY COMPARTMENTS

COMPARTMENT P1

One compartment shall be provided on the passenger's side of the apparatus body above the rear wheels. This compartment shall span from just behind the pump panel to the back of the rear wheel well quarter panel in width and from the top of the body side to the wheel well in height. The compartments approximate "clear door opening" is 51" wide by 39" high with a depth of 12".

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COMPARTMENT VENTILATION

A minimum 2-inch single “Weber” style polished stainless steel swivel vent with four (4) ¼-inch vent holes shall be provided. These vents shall have a stainless steel center bolt to lock the vent in either the open or closed position and be located in the compartment walls. All vents will contain fire resistant filters to minimize dust entering the compartment.

COMPARTMENT FLOOR DRAIN

The compartment shall be provided with rear corner floor drains to the underside of the body.

COMPARTMENT SILL PLATE

The compartment shall feature a polished stainless steel sill plate protecting the painted surface of the compartment when items are accessed.

AJUSTABLE UNISTRUT

Adjustable Uni-Strut equipment mounting tracks shall be installed inside the compartment with two (2) channels on the left wall and two (2) channels on the right wall. The tracks shall be positioned to provide support for equipment mounting. The length of the tracks shall be sized to allow for optimum use of the compartment interior.

Adjustable Uni-Strut equipment mounting tracks shall be installed inside the compartment with two (2) horizontal channels on the back wall of the compartment.

ADJUSTABLE SHELF

There shall be (1) adjustable shelf installed; and the shelf shall be constructed of .125" thick smooth aluminum plate and be mounted in the specified compartment with double bolt aluminum shelf brackets. The shelf shall have a broken front edge, and a broken rear edge for added strength and reinforcement.

COMPARTMENT SHELF GRATING

The specified compartment shelf shall be fitted with removable interlocking vinyl Dri-Dek grating. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

The specified Dri-Deck grating shall be black in color.

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The compartment shelf and or shelves shall have reflective striping added to the outside lip. The stripe shall be a 1-1/2" minimum in width.

Specified part shall include Red and White DOT approved reflective striping.

COMPARTMENT GRATING

The compartments shall be fitted with removable interlocking vinyl Dri-Dek grating. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

The specified Dri-Deck grating shall be black in color.

COMPARTMENT LIGHTING

The specified compartment shall have two vertical and one horizontal Code 3 800 series lights installed.

DOOR AJAR SENSOR

The Specified door(s) shall feature a magnetic proximity switch to indicate when the compartment door is ajar.

COMPARTMENT P2

One compartment shall be provided on the passenger's side of the apparatus body aft of the rear wheels. This compartment shall span from behind the rear wheel well quarter panel to the rear of the body in width and from below the walkway to the rub rail in height. The compartments approximate "clear door opening" is 34" wide by 58" high with a variable depth of 12"/22".

COMPARTMENT VENTILATION

A minimum 2-inch single "Weber" style polished stainless steel swivel vent with four (4) 1/4-inch vent holes shall be provided. These vents shall have a stainless steel center bolt to lock the vent in either the open or closed position and be located in the compartment walls. All vents will contain fire resistant filters to minimize dust entering the compartment.

COMPARTMENT FLOOR DRAIN

The compartment shall be provided with rear corner floor drains to the underside of the body.

COMPARTMENT SILL PLATE

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The compartment shall feature a polished stainless steel sill plate protecting the painted surface of the compartment when items are accessed.

AJUSTABLE UNISTRUT

Adjustable Uni-Strut equipment mounting tracks shall be installed inside the compartment with two (2) channels on the left wall and two (2) channels on the right wall. The tracks shall be positioned to provide support for equipment mounting. The length of the tracks shall be sized to allow for optimum use of the compartment interior.

Adjustable Uni-Strut equipment mounting tracks shall be installed inside the compartment with two (2) horizontal channels on the back wall of the compartment.

ADJUSTABLE SHELF

There shall be (1) adjustable shelf installed; and the shelf shall be constructed of .125" thick smooth aluminum plate and be mounted in the specified compartment with double bolt aluminum shelf brackets. The shelf shall have a broken front edge, and a broken rear edge for added strength and reinforcement.

COMPARTMENT SHELF GRATING

The specified compartment shelf shall be fitted with removable interlocking vinyl Dri-Dek grating. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

The specified Dri-Deck grating shall be black in color.

The compartment shelf and or shelves shall have reflective striping added to the outside lip. The stripe shall be a 1-1/2" minimum in width.

Specified part shall include Red and White DOT approved reflective striping.

COMPARTMENT GRATING

The compartments shall be fitted with removable interlocking vinyl Dri-Dek grating. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

The specified Dri-Deck grating shall be black in color.

COMPARTMENT LIGHTING

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The specified compartment shall have two vertical and one horizontal Code 3 800 series lights installed.

DOOR AJAR SENSOR

The Specified door(s) shall feature a magnetic proximity switch to indicate when the compartment door is ajar.

REAR BODY COMPARTMENTS

COMPARTMENT B1

One compartment shall be provided at the rear of the apparatus body, below the hose bed and above the tailboard. This compartment shall span just center of the tank. The compartments approximate "clear door opening" is 27" wide by 34" high with a depth of 25".

COMPARTMENT VENTILATION

A minimum 2-inch single "Weber" style polished stainless steel swivel vent with four (4) ¼-inch vent holes shall be provided. These vents shall have a stainless steel center bolt to lock the vent in either the open or closed position and be located in the compartment walls. All vents will contain fire resistant filters to minimize dust entering the compartment.

COMPARTMENT FLOOR DRAIN

The compartment shall be provided with rear corner floor drains to the underside of the body.

COMPARTMENT SILL PLATE

The compartment shall feature a polished stainless steel sill plate protecting the painted surface of the compartment when items are accessed.

AJUSTABLE UNISTRUT

Adjustable Uni-Strut equipment mounting tracks shall be installed inside the compartment with two (2) channels on the left wall and two (2) channels on the right wall. The tracks shall be positioned to provide support for equipment mounting. The length of the tracks shall be sized to allow for optimum use of the compartment interior.

Adjustable Uni-Strut equipment mounting tracks shall be installed inside the compartment with two (2) horizontal channels on the back wall of the compartment.

ADJUSTABLE SHELF

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There shall be (1) adjustable shelf installed; and the shelf shall be constructed of .125" thick smooth aluminum plate and be mounted in the specified compartment with double bolt aluminum shelf brackets. The shelf shall have a broken front edge, and a broken rear edge for added strength and reinforcement.

COMPARTMENT SHELF GRATING

The specified compartment shelf shall be fitted with removable interlocking vinyl Dri-Dek grating. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

The specified Dri-Deck grating shall be black in color.

The compartment shelf and or shelves shall have reflective striping added to the outside lip. The stripe shall be a 1-1/2" minimum in width.

Specified part shall include Red and White DOT approved reflective striping.

COMPARTMENT GRATING

The compartments shall be fitted with removable interlocking vinyl Dri-Dek grating. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

The specified Dri-Deck grating shall be black in color.

COMPARTMENT LIGHTING

The specified compartment shall have two vertical Code 3 800 series lights installed.

DOOR AJAR SENSOR

The Specified door(s) shall feature a magnetic proximity switch to indicate when the compartment door is ajar.

PUMP HOUSE COMPARTMENT (PH1)

There shall be an compartment located on the upper right side of the pump house. The compartment dimensions shall be approximately 21" wide x 23" high x 12" deep.

COMPARTMENT VENTILATION

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A minimum 2-inch single “Weber” style polished stainless steel swivel vent with four (4) ¼-inch vent holes shall be provided. These vents shall have a stainless steel center bolt to lock the vent in either the open or closed position and be located in the compartment walls. All vents will contain fire resistant filters to minimize dust entering the compartment.

COMPARTMENT FLOOR DRAIN

The compartment shall be provided with rear corner floor drains to the underside of the body.

ADJUSTABLE UNISTRUT

Adjustable Uni-Strut equipment mounting tracks shall be installed inside the compartment with two (2) channels on the left wall and two (2) channels on the right wall. The tracks shall be positioned to provide support for equipment mounting. The length of the tracks shall be sized to allow for optimum use of the compartment interior.

ADJUSTABLE SHELF

There shall be (1) adjustable shelf installed; and the shelf shall be constructed of .125" thick smooth aluminum plate and be mounted in the specified compartment with double bolt aluminum shelf brackets. The shelf shall have a broken front edge, and a broken rear edge for added strength and reinforcement.

COMPARTMENT SHELF GRATING

The specified compartment shelf shall be fitted with removable interlocking vinyl Dri-Dek grating. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

The specified Dri-Deck grating shall be black in color.

The compartment shelf and or shelves shall have reflective striping added to the outside lip. The stripe shall be a 1-1/2" minimum in width.

Specified part shall include Red and White DOT approved reflective striping.

COMPARTMENT GRATING

The compartments shall be fitted with removable interlocking vinyl Dri-Dek grating. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

The specified Dri-Deck grating shall be black in color.

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COMPARTMENT LIGHTING

The specified compartment shall have two vertical Code 3 800 series lights installed.

DOOR AJAR SENSOR

The Specified door(s) shall feature a magnetic proximity switch to indicate when the compartment door is ajar.

PUMP HOUSE COMPARTMENT (PH2)

There shall be an compartment located on the lower right side of the pump house. The compartment dimensions shall be approximately 11.5" wide x 18" high x 18" deep.

COMPARTMENT FLOOR DRAIN

The compartment shall be provided with rear corner floor drains to the underside of the body.

COMPARTMENT LIGHTING

The specified compartment shall have two vertical Code 3 800 series lights installed.

DOOR AJAR SENSOR

The Specified door(s) shall feature a magnetic proximity switch to indicate when the compartment door is ajar.

SLIDE-IN REAR LADDER COMPARTMENT - RIGHT SIDE

The right rear of the apparatus body shall have a vertically mounted slide-in ladder storage compartment. The compartment shall be **capable** of storing one (1) *20-foot three-section Duo Safety model #912 ladder, one (1) *backboard minimum dimensions 72" L x 16" W x 2" H (Ferno "Najo Light NB5500" or similar), one (1) *8-foot long pike pole and one (1) *5-foot digging bar, one (1) *8-foot rubbish hook, *New York Roof Hook with locking pins to secure each item.

*Items are to be purchased by the end user.

DOOR AJAR SENSOR

The Specified door(s) shall feature a magnetic proximity switch to indicate when the compartment door is ajar.

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SLIDE-IN REAR SUCTION HOSE COMPARTMENTS

Two (2) suction hose storage compartments will be located above the side storage compartments on both sides of the apparatus. The compartments will hold a combined total of three (3) eight (8) foot sections of four (4) inch hard suction hose and strainer.

Both compartments will be capable of holding two (2) eight (8) foot sections of hose if needed. Each compartment will have a stainless steel painted hinged door on the rear of the compartment. Each compartment door will have a locking positive latching door latch.

DOOR AJAR SENSOR

The Specified door(s) shall feature a magnetic proximity switch to indicate when the compartment door is ajar.

HOSEBED DUNNAGE COMPARTMENT

The hose bed shall be provided with an equipment compartment or dunnage compartment down the center of the hosebed. The hosebed dunnage compartment shall have a one piece aluminum treadplate cover. Approximate "clear door opening" dimensions shall be 13" wide by 75" deep and 16" high.

ALUMINUM TREADPLATE DOOR

This compartment shall feature an embossed aluminum diamond plate lid. The lid shall be bare embossed aluminum diamond plate.

DOOR LATCH

The specified hinged door(s) shall be equipped with a sealed, black lever latch(es). Latch(es) shall be non-locking style.

The specified compartment shall have no compartment lighting.

DOOR AJAR SENSOR

The Specified door(s) shall feature a magnetic proximity switch to indicate when the compartment door is ajar.

PAINTED ALUMINUM PANEL

There shall be a smooth aluminum panel bolted to the rear of the center dunnage storage box.

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WHEEL WELL PANEL CONSTRUCTION

The outer wheel well panel shall be galvanized steel of the same gauge as compartment construction and an integral part of the overall body design. The exterior wheel well area shall be painted to match the body.

WHEEL WELL LINERS

Wheel well liners designed to protect the body from impact resulting from road debris thrown by the tires shall be installed. The removable liners shall be constructed from UHMW material to encompass the entire inner wheel well area. The liners shall be secured with stainless steel threaded fasteners.

REAR WHEEL FENDERETTES

Polished stainless steel fenderettes shall be installed at each rear wheel opening. The fenderettes shall be positioned outside of the wheel well panel to cover the tire area that extends past the body. The fenderettes shall be secured with stainless steel threaded fasteners.

LEFT SIDE BODY -- SCBA CYLINDER STORAGE PROVISIONS

A storage area for an SCBA cylinder shall be provided in the forward area of the driver's side wheel well. Dimensions shall be 8" diameter x 26" deep.

The SCBA door shall be a Cast Products door.

The SCBA door shall have a non-locking lever latch.

The SCBA cylinder storage tube shall be made from plastic.

SCBA CYLINDER STRAPS

There shall be a 1" nylon tether installed to secure the bottle in the storage tube.

LEFT SIDE BODY -- SCBA CYLINDER STORAGE PROVISIONS

A storage area for an SCBA cylinder shall be provided in the rearward area of the driver's side wheel well. Dimensions shall be 8" diameter x 26" deep.

The SCBA door shall be a Cast Products door.

The SCBA door shall have a non-locking lever latch.

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The SCBA cylinder storage tube shall be made from plastic.

SCBA CYLINDER STRAPS

There shall be a 1" nylon tether installed to secure the bottle in the storage tube.

RIGHT SIDE BODY -- SCBA CYLINDER STORAGE PROVISIONS

A storage area for an SCBA cylinder shall be provided in the forward area of the passenger's side wheel well. Dimensions shall be 8" diameter x 26" deep.

The SCBA door shall be a Cast Products door.

The SCBA door shall have a non-locking lever latch.

The SCBA cylinder storage tube shall be made from plastic.

SCBA CYLINDER STRAPS

There shall be a 1" nylon tether installed to secure the bottle in the storage tube.

RIGHT SIDE BODY -- SCBA CYLINDER STORAGE PROVISIONS

A storage area for an SCBA cylinder shall be provided in the rearward area of the officer's side wheel well. Dimensions shall be 8" diameter x 26" deep.

The SCBA door shall be a Cast Products door.

The SCBA door shall have a non-locking lever latch.

The SCBA cylinder storage tube shall be made from plastic.

SCBA CYLINDER STRAPS

There shall be a 1" nylon tether installed to secure the bottle in the storage tube.

RUB RAILS, CLEARANCE LIGHTS, AND REFLECTIVE TAPE

The sides of the lower body area fore and aft of the wheel well area shall be provided with 2" x 1.25" x .250" extruded aluminum rub rails, with end caps or angled corners. The rub rails shall be equipped with DOT type reflective striping, and clearance lights installed as specified.

Specified part shall include White reflective striping.

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FRONT OF BODY -- PROTECTIVE SURFACE

The entire front of the apparatus body shall include a protective surface, constructed of aluminum tread plate material.

FRONT CORNERS OF BODY -- PROTECTIVE SURFACES

The front corners of the apparatus body shall include a protective surface installed. The surface shall be constructed of stainless steel material.

REAR BODY PANELS

The entire rear of the apparatus body shall be painted apparatus color.

OUTER REAR BODY PANELS -- PROTECTIVE COVERING

The rear outer panels of the body shall have protective surfaces installed on the corners. The protective covering shall be constructed of stainless steel material.

TOP OF BODY COMPARTMENTS -- PROTECTIVE SURFACES

The top of the side compartments shall have a protective surfaces installed. The surface shall be constructed of aluminum tread plate material.

ANODIZED ALUMINUM DRIP RAIL

All enclosed compartment doors shall be provided with an aluminum drip rail above the doors.

ALUMINUM – COMPARTMENT DOOR, HINGED OVERLAP

One (1) single, vertically hinged door shall be provide and fabricated from aluminum. The frame of the door shall be constructed of 1.75” x 1.75” x .125” aluminum tubing to prevent corrosion and provide structural support. The spacing created by the frame tubing shall filled with Styrofoam for added support, dent resistance, insulation and noise reduction. The exterior surface shall be .125” aluminum for durability. The interior surface shall be .080” aluminum. There shall be no mechanical fasteners, such as bolt heads or rivets on the inside or outside of the doors.

The exterior of the door shall overlap the opening of the compartment. A .75” lip shall be constructed around the opening of the compartment and the exterior of the door. A rubber seal shall be installed on the .75” lip on both the compartment and the door to provide for a double seal against water and dust. A rain gutter shall be mounted above the door creating a third layer of water protection.

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The door shall be designed utilizing a D-ring style latch system. A 6” stainless steel D-ring latch, large enough to accommodate a gloved hand, shall be mounted on the exterior of the door. A stainless steel bezel shall be installed to house and protect the D-ring locking mechanism. The easily serviced bezel shall be mounted utilizing stainless steel screws. The D-ring locking mechanism shall be a double catch design. The first catch shall engage to secure the door in the event of improper closure. The second catch shall seal the door from water and other elements once the door has been properly closed.

The door shall be mounted using a stainless steel piano style hinge and a .25” diameter hinge pin for stability. The vertical hinge shall be mounted to the body frame with threaded inserts and stainless steel screws to preserve functionality and ease of maintenance in the event of damage.

Gas struts shall be utilized to hold the door in the open position and to prevent the door from slamming during closing. The gas struts shall be mounted directly to the door with a stainless steel bracket assembly for stability and ease of maintenance. The gas struts shall be mounted to the interior of the compartment with a fully adjustable assembly.

A polished stainless steel scuff plate shall be installed on the bottom of the compartment opening to prevent damage and wear to the paint and finish of the body.

The exterior of the compartment doors and the door frames shall be painted to match the body in quality and tone. The interior surface shall not be painted, it shall be sanded utilizing a dual orbital technique.

The specified door(s) shall have a Polished stainless-steel D-ring door handle.

The specified door(s) D-ring handles shall be equipped with manual key door locks keyed to use the 1250 key.

COMPARTMENT DOOR EDGE STRIPING

The hinged compartment doors shall have reflective striping applied on the edges. The stripe shall be a 1-1/2" minimum in width.

Specified part shall include Red and White DOT approved reflective striping.

ALUMINUM – COMPARTMENT DOOR, HINGED OVERLAP

There shall be five (5) double, vertically hinged sets of doors fabricated from aluminum and installed on the apparatus body. Each door shall feature exterior surfaces which overlaps the opening of the compartment. The exterior surface shall be .125” aluminum for durability and

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damage resistance. The interior surface shall be .080" aluminum for structural support and overall appealing appearance of the compartment. The frame of the doors shall be constructed of 1.75" x 1.75" x .125" aluminum tubing to prevent corrosion and provide structural support. The spacing created by the frame tubing shall be filled with Styrofoam for added support and dent resistance, temperature insulation, and noise reduction.

A .75" lip shall be constructed around the opening of the compartment and the exterior of the door. A rubber seal shall be installed on the .75" lip of both the compartment and the door to provide for a double seal against water and dust. A rain gutter shall be mounted above the latch type door for an added third layer of water protection.

The doors shall be designed utilizing a D-ring latch system. A 6 inch stainless steel D-ring latch, large enough to accommodate a gloved hand, shall be mounted on the exterior of the door to allow the door to seal and fasten in the closed position. A stainless steel bezel shall be installed to house and protect the D-ring locking mechanism. The easily serviced bezel shall be mounted utilizing stainless steel screws for added stability of the mechanism and ease of maintenance in the event of damage. The D-ring locking mechanism shall be of a double catch design. The first catch shall engage to secure the door in the event of improper closure. The second catch will seal the door to water and other elements once the doors has been properly closed.

The doors shall be mounted with a stainless steel hinges with .25" diameter hinge pin for stability. The vertical hinges shall be mounted to the body frame with threaded inserts and stainless steel screws to preserve functionality with use or age and ease of maintenance in the event of damage.

Gas struts shall be utilized to hold the door in the open position and to prevent the door from slamming during closing. The gas struts are mounted directly to the door with a stainless steel bracket assembly for stability and ease of maintenance. The gas struts shall be mounted to the interior of the compartment with fully adjustable assembly for ease of adjustment and maintenance while increasing stability.

A polished stainless steel scuff guard shall be installed on the bottom of the compartment opening to prevent damage and wear to the paint and finish of the body module due to the removal and storage to equipment in the compartment.

The exterior of the compartment doors and the door jambs shall be painted to match the body in quality and tone. The interior of the door shall not be painted due to lack of exposure and inherent resistance to corrosion. The interior of the door shall be sanded utilizing a dual orbital technique. The sanding shall provide for a smooth, regular, scratch free surface on the interior of the door. The exterior skin to door frame joining seam shall be caulked and painted to provide a moisture proof seal.

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The specified door(s) shall have a Polished stainless-steel D-ring door handle.

The specified door(s) D-ring handles shall be equipped with manual key door locks keyed to use the 1250 key.

COMPARTMENT DOOR EDGE STRIPING

The hinged compartment doors shall have reflective striping applied on the edges. The stripe shall be a 1-1/2" minimum in width.

Specified part shall include Red and White DOT approved reflective striping.

REAR STEP

The rear bumper shall be made from aluminum diamondback grip strut. The design of the grip strut will allow for no debris or dust buildup and will allow for easy clean out with just water.

The step will be of a three piece design each section to operate independently during body and chassis flexing. The step will be full body width X a minimum 8-inch deep stand off type. When mounted, the loaded rear departure angle will be no less than 22 degrees.

The drop step will have locking positions to allow for up position storage and rear compartment door opening access. The drop step will incorporate a stop in the down position to prevent movement when in use.

AUXILIARY FIXED STEP -- LEFT REAR

Three (3) Cast Products 8" square cast aluminum auxiliary step(s) shall be provided. The step shall be installed on the rear left side of the body.

AUXILIARY FIXED STEP -- RIGHT REAR

Three (3) Cast Products 8" square cast aluminum auxiliary step shall be provided. The step shall be installed on the rear right side of the body.

HANDRAILS

Three (3) knurled type non-slip handrail, approximately 18" in length, shall be vertically installed.

HANDRAILS

Two (2) knurled type non-slip handrail, approximately 42" in length, shall be vertically installed.

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HANDRAILS

Two (2) knurled type non-slip handrail, approximately 12” in length, shall be horizontally installed.

HANDRAILS

One (1) knurled type non-slip handrail, approximately 60” in length, shall be horizontally installed.

HOSE BODY CONSTRUCTION SPECIFICATIONS

The hose bed side sheets and floor shall be constructed from aluminum material. The hosebed shall provide two separate hose beds one on the left and one on the right side of the top loaded center dunnage. The hose body shall be free of sharp corners, bolts, or other obstructions that may catch hose and other equipment.

HOSE STORAGE BRACKETS

Two (2) I-Zone hose brackets shall be provided on the rear of the apparatus body, rear-facing, one (1) on each side of the body.

ALUMINUM HOSEBED GRATING

The hose bed compartment deck shall be constructed entirely from maintenance-free, extruded aluminum slats. The slats shall feature an anodized, contoured, ribbed top surface. The slats shall be of widths approximately 3/4" high x 4.5" wide and shall be welded into a one-piece grid system to prevent the accumulation of water and allow ventilation to assist in drying hose.

ALUMINUM HOSEBED COVER

Two (2) separate aluminum tread plate hose bed covers shall be installed, 1/8-inch aluminum alloy diamond plate reinforced with a 1/8-inch aluminum alloy hat section as needed to support walking on the hose bed covers. The covers shall be hinged on the outboard side using full length polished stainless steel hinges with a minimum 3/8-inch pin and 1-inch joint length and installed to avoid any hindrance in walking on hose bed covers.

The hose bed covers shall have full length handrails installed along the rear lip and one (1) additional grab handle mounted on the top side of the covers and two (2) mechanisms on each cover to assist with opening and closing of the hose bed covers. Each hose bed cover shall have a mechanism to hold the hose bed cover in the open position and will be substantial enough to prevent accidental closing in extreme wind conditions.

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The covers shall be reinforced so that they will support the weight of a person walking on the cover and shall be sloped to the outboard side of the apparatus to aid in water run-off.

HOSEBED REAR ENCLOSURE

A vinyl end skirt with three (3) straps, and large quick release buckles (minimum 2-inch) shall be installed on each hose bed cover. Quick release buckles and nylon tie down straps shall be attached to the end skirts. The end skirts will be weighted at the bottom end with a full width flat strip of metal sewn into the hem of the skirt. The end skirts, straps, buckles, etc. will be exposed to direct sun light and shall be protected against UV rays.

The flaps shall be red in color.

HOSEBED -- AREA LIGHTS

(4) Tecniq E10 lights shall be provided and installed on hosebed door(s).

DOOR AJAR SENSOR

The Specified door(s) shall feature a magnetic proximity switch to indicate when the compartment door is ajar.

WATER TANK SPECIFICATIONS

A United Plastics Fabricating (UPF), 500 gallon booster tank (Poly Tank) shall be fabricated from a minimum of .500" polypropylene complete with a minimum of .375" polypropylene internal full height baffles that are raised 4" off the tank floor for maximum water flow between baffles. In addition, provisions for the main pump outlet, direct tank filler inlet, a pump to tank filler/churn valve inlet, a back pump filler outlet, a fitting for an electronic water level gauge sensor and clean outs for manual tank flushing shall be provided. The tank shall be structurally reinforced and restrained to prevent deformities or damage to the tank or apparatus body during stressed off road operations. The booster tank shall be a rectangular design, and shall be capable of being completely removable from the body without cutting or bending of any components. The tank and cradle assembly shall be mounted to the chassis frame in strict accordance to the tank manufacturer's installation guidelines.

The water tank shall be constructed of polypropylene, nitrogen-welded and tested inside and out. The tank manufacturer shall define the floor, top, sides, ends, and baffles material thicknesses. The tank shall carry a lifetime warranty. The water tank shall be manufactured by United Plastic Fabrication.

The transverse and longitudinal swash partitions shall be interlocked and welded to each other as

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well as to the walls of the tank. The partitions shall be designed and equipped with vent holes to permit air and liquid movement between compartments. The cover shall be recessed .375" from the top of the side walls. Hold down dowels shall extend through and be welded to both the covers and the transverse partitions, providing rigidity during fast fill operations. Drilled and tapped holes for lifting eyes shall be provided in the top area of the water tank.

The water tank manufacturer shall certify the capacity of the water tank prior to delivery of the apparatus. This capacity shall be recorded on the manufacturer's record of construction and the certification shall be provided to the purchaser when the apparatus is delivered. Tank construction shall conform to applicable NFPA standards.

The water tank shall be configured in a rectangular style with consistent widths on the sides from top to bottom.

TANK FILL AND OVERFLOW PROVISIONS

The water tank shall have a combination vent and manual fill tower. The fill tower shall be fabricated from 1/2" polypropylene and shall have a minimum outer perimeter dimension of 8" x 8". The tower shall have a 1/4" thick polypropylene screen and a polypropylene hinged cover. Inside the fill tower, halfway down from the top, shall be fastened a vent overflow pipe. The vent overflow shall be fabricated from Schedule 40 polypropylene pipe, with a minimum I.D. of 4". The vent overflow shall be designed to run through the tank interior and shall be designed to exit the water tank interior behind the rear wheels.

The tank cover shall be fabricated from 1/2" thick polypropylene and shall incorporate a three-piece design which allows for the removal of each individual cover section for inspection or repair of the tank interior, if necessary. The tank cover shall be recessed 3/8" from the top of the tank sides and shall be welded to both the sides and the longitudinal baffles. Each of the three cover sections shall have hold downs to assist in keeping the cover rigid under fast filling conditions. These hold downs shall consist of 2" polypropylene dowels, spaced a maximum of 30" apart, fitted and then welded to the transverse partitions. The dowels shall extend through the cover sections and be welded to them. Two of the dowels shall be drilled and tapped to accommodate the tank lifting eyes.

The sump shall have a minimum dimension of 8" x 6" with a 3/4" thick bottom. On all tanks with a bulkhead suction inlet, a 3" Schedule 40 polypropylene pipe sweep shall be provided from the front of the tank to the sump location. The sump shall have a threaded plug located at the bottom of it for a tank drain and clean out.

There shall be two standard tank outlets: one for the tank to pump suction line, which shall be a minimum of a 3" NPTF coupling, and one for a tank fill line, which shall be a minimum of a 1-1/2" NPTF coupling. All tank fill couplings shall be backed with flow deflectors to break up

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the stream of water entering the tank.

The water tank shall rest on the body subframe cross members, which shall be spaced a maximum of 22" apart. The tank shall be insulated from those cross members by hard rubber insulators, with a minimum thickness of 1/4", glued and mechanically fastened to the cross members to protect the tank from direct contact with the steel body subframe. The tank shall be designed on a free-floating suspension principle and shall not require the use of additional hold downs. The tank shall be completely removable without disturbing or dismantling the apparatus body structure.

VENT AND OVERFLOW

The fill tower shall incorporate a vent and overflow system shall be designed into the water tank. The system shall include a 3" diameter PVC pipe that functions both as an air vent while emptying the tank and as an overflow when filling the tank. The overflow shall discharge excess water below the frame rails of the vehicle.

TANK SUMP AND DRAIN PROVISIONS

A one (1) cubic foot (minimum) polypropylene sump, with anti-swirl baffles shall be provided. The sump shall be located as close to the center of the tank floor as the chassis cross members, and differential driveline will allow.

One (1) 3-inch or 4-inch National Pipe Thread (NPT) outlet and plug shall be provided in the sump floor for flushing of the tank. A 1½-inch drain valve shall be provided in the tank sump for flushing of the booster tank. The valve will be located as to provide for adequate clearance from cross members and differential during extreme twisting motions of the chassis and buildup

The sump shall also be provided with a 1-inch NPT outlet for the back pump filler hose.

Due to space constraints, it may be necessary to locate the main pump suction outlet in the tank sump for maximum water usage. The main pump suction tube will be of an adequate size to supply the main pump with enough water to meet pump ratings.

A minimum 3-inch direct tank fill NPT inlet and internal manifold shall be provided on the left rear of the tank. If the direct tank fill inlet is located on the rear tank wall, the inlet manifold shall pass through the first baffle and feature a turn down to eliminate any possible damage to the tank or baffles while filling the tank.

WATER TANK DRAIN PROVISIONS

A 3" plugged drain provision shall be installed in the bottom of the water tank, sump, or

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plumbing for water tank draining and the flushing-out of debris.

CLASS A FOAM TANK SPECIFICATIONS

The Class A foam tank shall have a capacity of 20 gallons. The foam tank shall be manufactured by UPF and have a lifetime warranty.

The tank shall be equipped with a positive sealing pressure/vacuum vent type cap, a low foam concentrate sensor that turns off the foam pump at a pre-set level, a visual sight gauge, an easily accessible brass or stainless steel drain valve located at the lowest point of the foam tank and an accessible brass or stainless steel cleanable strainer installed in the supply line from the foam tank to the foam pump.

The foam tank shall be mounted on a removable sub-structure. The tank will have a positive tie down. The tie down will allow for easy removal of the foam tank.

The foam tank will have two (2) quarter turn brass or stainless shut off valves at the pump supply and fill lines to allow for the removal of the tank without loss of foam. The float switch harness and the foam concentrate supply and fill lines shall have connections located adjacent to the tank to facilitate foam tank removal.

FOAM TANK FILL AND VENTING PROVISIONS

The foam concentrate tank shall be provided with a fill pipe having a volume of not less than 2 percent of the total tank volume. The filler opening shall be capped with a sealed air-tight threaded cover. The fill opening shall be designed to incorporate a removable screen and shall be located so that foam concentrate from a five (5) gallon container can be dumped into the tank.

The foam tank filler shall be equipped with a pressure/vacuum vent that enables the tank to compensate for changes in pressure or vacuum when filling or withdrawing foam concentrate from the tank. The pressure/vacuum vent shall not allow atmospheric air to enter the foam tank except during operation or to compensate for thermal fluctuations. The vent shall be protected to prevent foam concentrate from escaping or directly contacting the vent at any time. The vent shall be of sufficient size to prevent tank damage during filling or foam withdrawal.

A color coded label or visible permanent marking that reads "CLASS A -- FOAM TANK FILL" shall be placed at or near the foam concentrate tank fill opening. An additional label shall be placed at or near any foam concentrate tank fill opening stating the type of foam concentrate the system is designed to use.

Any restrictions on the types of foam concentrate that can be used with the system shall also be stated, along with a warning message that states "WARNING: DO NOT MIX BRANDS AND

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TYPES OF FOAM."

A 3/4" diameter connection, piping, and gate type valve shall be installed for the foam tank for draining purposes.

DIRECT TANK FILL - LEFT REAR

A valve for direct filling of the tank shall be supplied. The 1/4 turn valve shall be configured with 2-1/2" NH female threads, debris screen, threaded plug with retention chain and lever handle. The valve shall be located on the left rear of the apparatus.

One (1) Akron 8825 series swing-out style valve(s) shall be supplied and installed. All valves shall be designed to operate under normal conditions up to 500 PSI and shall have dual seats to work in both pressure and vacuum environments. All valves and controls shall be easily accessible for service, repair or replacement.

The specified valve shall have a direct actuated 'local' control Akron Model TSC valve handle.

One (1) chrome brass 2-1/2" NH rocker lug plug with a securing chain or cable shall be installed on the intake.

(1) chrome plated brass 30 degree elbow with 2.5" swivel female NH x 2.5" male NH thread with rocker lugs shall be provided on the discharge.

BACK PACK FILL SYSTEM

There shall be one (1) back pack fill system provided and installed on the lower area of the pump panel. The valve plumbing shall be 3/4" I.D. hose.

12 VOLT ELECTRICAL SPECIFICATIONS

The following describes the low voltage electrical system on the apparatus including all panels, electrical components, switches and relays, wiring harnesses and other electrical components. The apparatus manufacturer shall conform to the latest Federal DOT standards, current automotive electrical system standards, and the applicable requirements of the NFPA 1906.

Wiring shall be stranded copper or copper alloy conductors of a gauge rated to carry 125 percent of the maximum current for which the circuit is protected. Voltage drops shall not exceed 10 percent in all wiring from the power source to the using device. The wiring and wiring harness and insulation shall be in conformance to applicable SAE and NFPA standards. The wiring harness shall conform to SAE J-1128 with GXL temperature properties. Exposed wiring shall be run in a loom with a 290 degree Fahrenheit rating. Wiring looms shall be properly supported and

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attached to body members. Electrical conductors shall be constructed in accordance with applicable SAE standards, except when good engineering practice requires special construction.

All wiring connections and terminations shall provide positive mechanical and electrical connections and be installed in accordance with the device manufacturer's instructions. When wiring passes through metal panels, electrical connections shall be with mechanical type fasteners and rubber/plastic grommets.

Wiring between cab and body shall be split using Deutsch type connectors or enclosed in a terminal junction panel allowing body removal with minimal impact on the apparatus electrical system. Connections shall be insulated with heat shrink crimp-type tubing to resist moisture and foreign debris such as grease and road grime. Weather resistant connectors shall be provided throughout the system.

Electrical junction or terminal boxes shall be weather resistant and located away from water spray conditions. When required, automatic reset breakers and relays shall be housed in the main body junction panel.

There shall be no exposed electrical cabling, harnesses, or terminal connections located in compartments, unless enclosed in an electrical junction box or covered with a removable electrical panel. Wiring shall be secured in place and protected against heat, liquid contaminants and damage and shall be uniquely identified at least every six inches (6") by color coding or permanent marking with a circuit function code and identified on a reference chart or electrical wiring schematic per requirements of applicable NFPA 1906 standards.

Low voltage protective devices shall be provided for the electrical circuits. The devices shall be accessible and located in required terminal connection locations or weather resistant enclosures. Over current protection devices shall be automatic reset type suitable for electrical equipment and meet SAE standards. All electrical equipment, switches, relays, terminals, and connectors shall have a direct current rating of 125 percent of maximum current for which the circuit is protected. Electro-magnetic interference suppression shall be provided in the system as required in applicable SAE standards.

The electrical system shall include the following:

Electrical terminals in weather exposed areas shall have a non-conductive grease or spray applied. All terminal plugs located outside of the cab or body shall be treated with a corrosion preventative compound.

All electrical wiring shall be placed in a protective loom or be harnessed.

Exposed connections shall be protected by heat shrink material and sealed connectors.

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Large fender washers shall be used when fastening equipment to the underside of the cab roof and all holes made in the roof shall be caulked with silicone.

Electrical components installed in exposed areas shall be mounted in a manner that will not allow moisture to accumulate inside.

A service loop shall be provided behind an electrical appliance to allow them to be pulled away from mounting area for inspection and service work.

Upon completion of the vehicle and prior to delivery, the apparatus shall be electrically tested and the electrical testing, certifications, and test results shall be submitted with delivery documentation per requirements of NFPA 1906.

ELECTRICAL WIRING HARNESS

The electrical system shall be divided into separate harnesses. The individual harness shall be connected with Deutsch type quick connectors. The wiring and appliances shall be protected by automatic reset type circuit breakers.

REAR CENTER CONSOLE OPTION 3

There shall be a center console located between the rear bucket seats. The rear console shall feature two front drawers, one on top of the other, and a top recessed storage area. The rear portion of the console shall have two (2) cup holders, a 12 volt power point, and dual USB power points on each side.

CUP HOLDER

The rear console shall have two (2) cup holders installed. Exact location to be determined at the preconstruction meeting.

12 VOLT POWER SOURCE

There shall be two (2) 12 volt plug-in utility power connection(s) rated at 20 amps provided and installed in the cab console.

The specified power source shall be wired to the switched battery circuit.

USB CHARGING PORT

Two (2) USB charging port(s) shall be installed in the cab of the truck for the fire departments accessory devices. The USB charging port shall have two (2) USB connections and shall have a 5 volt, 4.8A output with Intelligent Device Recognition capabilities.

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The specified power source shall be wired to the switched battery circuit.

CUSTOM FABRICATED CONSOLE OPTION 3

A custom fabricated electrical console and enclosure shall be located between the driver's and the officer's seating positions. The flat console lid shall feature two side-by-side rows of plate mountings that are similar in size and style to Havis brand plates.

The final console layout shall be approved by the customer.

CONSOLE MAP BOX

There shall be a map box attached to the rear of the console. The map box shall be painted to match the console.

BATTERY SWITCH - MASTER DISCONNECT

A battery cutoff switch shall be provided in the cab within easy reach of the driver; by the chassis manufacturer. The switch shall be rated for 300 amps.

BATTERY CHARGER

A Kussmaul Autocharge 1000 PLC, model #091-215-12, automatic battery charger shall be provided. The battery charger shall be wired to the 12 volt battery system. The unit shall be mounted in a clean, dry area accessible for service and/or maintenance. It shall be wired to the specified shore power receptacle. Included in the package is a Kussmaul Super 20 Auto Eject Deluxe with built in bar graph display. Mounting location shall be determined in pre-con

The specified auto eject cover shall be yellow.

IDENTIFICATION LIGHTS

All LED identification lights shall be installed on the vehicle as required by applicable highway regulations.

LICENSE PLATE MOUNTING AND LIGHT

A predrilled backing plate and LED light shall be installed on the rear for mounting of the license plate.

STOP AND TAIL LIGHTS

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Two (2) Whelen Model #M6BTTC, 4" x 6" LED stop and tail lights with clear lenses shall be provided. The light shall be furnished with a Clear optic polycarbonate lens for maximum light spread and furnished with a 6" wire pigtail.

TURN SIGNALS

Two (2) Whelen M6T light heads shall be installed on the apparatus. The lightheads shall feature an Clear lens with sequential cheveron arrow, with multi flash pattern.

BACK-UP LIGHTS

Two (2) Whelen M-Series, 4" x 6" rear LED back-up lights shall be installed.

TAILLIGHT BEZELS

Two chrome (2) Whelen M Series housings shall be installed at the rear of the apparatus for four (4) Whelen M-Series stop-tail-turn-backup and warning lights.

MAP LIGHT

One (1) Havis Shields #C-MAP-T-LED 12" LED map light, 12 volt, with a gooseneck arm an on-off switch located on the base of the light shall be installed on the dashboard.

FRONT BUMPER -- GROUND LIGHTS

There shall be two (2) Tecniq E10, LED ground light(s) installed under the front bumper.

CAB GROUND LIGHTS

There shall be four (4) Tecniq E10, LED ground lights installed under the cab door(s).

GROUND LIGHTS - PUMP PANEL

There shall be two (2) Tecniq E10, LED ground lights installed under the pump panel running board(s).

GROUND LIGHTS - UNDER REAR STEP

There shall be two (2) Tecniq E10, LED ground lights installed under the rear step area.

PIONEER MICRO

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There shall be four (4) Whelen Pioneer Micro lights provided and installed on the apparatus.

The lights shall be located:

- One located on each side of the pump house recessed into upper panels.
- Two located under the middle steps on the back of the apparatus. They shall be operated by the "Rear Scene" switch located on the Cencom Carbide controller

PIONEER FLOOD/SPOT SURFACE MOUNT LIGHTHEAD

Two (2) Whelen Pioneer Plus™ Model # PCPSM1C shall be provided and installed at the rear of the apparatus, one (1) each side at the top. The light head shall have a chrome housing.

The scene lights shall be activated by individual buttons or switches on the cab center console. Left, right, and rear scene light controls.

WHELEN SCENE LIGHT

One (1) Whelen, Pioneer Summit 30" light bar shall be provided and installed in the center cutout in the front bumper.

DOOR OPEN WARNING LIGHT

The door ajar warning system shall be separated into four zones, a Front, Left, Right, and Rear zone. Each zone shall have an individually labeled warning light and also activate an audible alarm. The door ajar lights and audible alarm shall activate only when the apparatus parking brake has been released.

RADIO ANTENNA INSTALLATION

There shall be four (4) radio antenna installed on the apparatus and routed to the cab center console.

BACK UP ALARM

One (1) solid state back up alarm shall be provided at the rear of the apparatus. The back up alarm shall be wired to the reverse circuit of the transmission, and shall provide an audible alarm to the rear of the apparatus when reverse gear is selected. The alarm shall have a volume of 87 to 112 db while in operation.

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HEADLIGHT FLASHER

The wig wag feature shall be programmed through the chassis supplied Diamond Logic system.

ELECTRONIC SIREN

A Whelen CenCom Core C399 electric siren and lighting control module shall be installed.

WHELEN CORE CONTROL HEAD

There shall be a Whelen model CCTL7 control head supplied with the Cencom Core system. It features a 3 section control head with 21 push buttons, and a 4 position slide switch.

WHELEN CORE WECANX TRAFFIC ADVISOR MODULE

There shall be a Whelen model CTA Traffic Advisor module interfaced with the Cencom Core system.

SIREN SPEAKER

One (1) Whelen Model #SA315P siren speaker shall be provided. The 100 watt siren speaker shall be designed in a black nylon composite housing with 123 decibel rating.

ZONE A FRONT UPPER -- LIGHTBAR

One (1) Whelen Model # TY0RRRR Cenator series light bar shall be installed on the apparatus. The lightbar shall feature the following:

- Six forward facing red LED lights.
- Two forward facing white LED lights.
- Two forward facing LED take down lights.
- A left and right facing LED take down light.
- Two rear facing LED take down lights.
- Four corner red LED lights.
- Two rear facing amber LED lights.
- Two rear facing white LED lights.

ZONE A -- LOWER FRONT WARNING LIGHTS

Two (2) Whelen M6 Series Model # M6D warning light shall be provided. The warning light shall incorporate Linear Super-LED® and Smart LED® technology. The M6D configuration shall consist of 18 red Super-LEDs and a red optic polycarbonate lens. The lens/reflector assembly shall be sealed and resistant to water, moisture, dust, and other environmental

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conditions. The hard coated lens shall provide extended life/luster protection against UV and chemical stresses. The M6D light shall include a split design including red and white LEDs, with a clear lens.

The specified Whelen M6 lights shall be equipped with chrome plastic flange type light bezel mountings.

ZONE B/D LOWER CAB INTERSECTION -- LIGHTS

Two (2) Whelen M6 Series Model # M6V2R combination 180° warning/perimeter light shall be provided. The M6V2R shall incorporate Linear Super-LED® and Smart LED® technology. The configuration of the M6V2R shall be a M6 V-series red warning light and a perimeter light with a split red/clear non-optic polycarbonate lens. The warning light shall consist of two V-series PC boards containing six red Super-LEDs on each PC board. Clear optic collimators and reflectors will be installed with each PC board for maximum illumination. The perimeter light shall consist of six white Super-LEDs installed on the scene light PC board. The perimeter light shall be installed at 45° angle with a TIR reflector for supreme radiance. The warning light assembly and the perimeter light assembly are installed on a main PC board.

The warning light shall include an internal flasher with 25 Scan-Lock™ flash patterns including low power and steady burn. The M6V2R shall also be provided with a synchronize feature.

The lens/reflector assembly shall be sealed and resistant to water, moisture, dust, and other environmental conditions. The hard coated lens shall provide extended life/luster protection against UV and chemical stresses. The light engine shall be installed at the rear of the unit and be vacuum tested to ensure proper sealing. The PC boards shall be conformal coated for additional protection.

The warning light is covered by a five year factory warranty.

The specified Whelen M6 lights shall be equipped with chrome plastic flange type light bezel mountings.

ZONE B/D LOWER MID BODY WARNING LIGHTS

Two (2) Whelen M6 Series Model # M6V2R combination 180° warning/perimeter light shall be provided. The M6V2R shall incorporate Linear Super-LED® and Smart LED® technology. The configuration of the M6V2R shall be a M6 V-series red warning light and a perimeter light with a split red/clear non-optic polycarbonate lens. The warning light shall consist of two V-series PC boards containing six red Super-LEDs on each PC board. Clear optic collimators and reflectors will be installed with each PC board for maximum illumination. The perimeter light shall consist

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of six white Super-LEDs installed on the scene light PC board. The perimeter light shall be installed at 45° angle with a TIR reflector for supreme radiance. The warning light assembly and the perimeter light assembly are installed on a main PC board.

The warning light shall include an internal flasher with 25 Scan-Lock™ flash patterns including low power and steady burn. The M6V2R shall also be provided with a synchronize feature.

The lens/reflector assembly shall be sealed and resistant to water, moisture, dust, and other environmental conditions. The hard coated lens shall provide extended life/luster protection against UV and chemical stresses. The light engine shall be installed at the rear of the unit and be vacuum tested to ensure proper sealing. The PC boards shall be conformal coated for additional protection.

The warning light is covered by a five year factory warranty.

The specified Whelen M6 lights shall be equipped with chrome plastic flange type light bezel mountings.

ZONE B AND D -- UPPER SIDE FRONT WARNING LIGHTS

Two (2) Whelen M9 Series Model # M9V2R combination 180° warning/perimeter lights shall be provided and installed on the forward side of the apparatus body in the upper section, one (1) each side.

The M9V2R shall incorporate Linear Super-LED® and Smart LED® technology. The configuration of the M9V2R shall be a M9 V-series red warning light and a perimeter light with a split red/clear non-optic polycarbonate lens. The warning lights shall consist of four PC boards containing three red Super-LEDs on each PC board. The warning lights PC boards will be installed on a V-shaped mounting bracket. Two sets of three red Super-LEDs shall be installed on the main PC board to the left and right sides of The V-shaped bracket. Clear V-shaped optic collimator and metalized reflector will be installed over the PC boards for maximum illumination. The scene lights shall consist of 18 white Super-LEDs installed on the main PC board. The scene lights will be furnished with a clear optic collimator and metalized angled reflector for supreme radiance.

The warning lights shall include an internal flasher with 25 Scan-Lock™ flash patterns including low power and steady burn. The M9V2R shall also be provided with a synchronize feature. The M9V2R warning lights shall meet KKK 1822F, NFPA 1901, and NFPA 1917 specifications. The M9V2R perimeter lights shall meet AMD 024 with two M9V2R on each side of the vehicle and NFPA 13.10.1.2 for one M9V2R up to six feet.

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The lens/reflector assembly shall be sealed and resistant to water, moisture, dust, and other environmental conditions. The hard coated lens shall provide extended life/luster protection against UV and chemical stresses. The light engine shall be installed at the rear of the unit and be vacuum tested to ensure proper sealing. The PC boards shall be conformal coated for additional protection.

The specified Whelen M9 lights shall be equipped with chrome plastic flange type light bezel mountings.

ZONE B AND D -- UPPER SIDE REAR WARNING LIGHTS

Two (2) Whelen M9 Series Model # M9V2R combination 180° warning/perimeter lights shall be provided and installed on the rear side of the apparatus body in the upper section, one (1) each side.

The M9V2R shall incorporate Linear Super-LED® and Smart LED® technology. The configuration of the M9V2R shall be a M9 V-series red warning light and a perimeter light with a split red/clear non-optic polycarbonate lens. The warning lights shall consist of four PC boards containing three red Super-LEDs on each PC board. The warning lights PC boards will be installed on a V-shaped mounting bracket. Two sets of three red Super-LEDs shall be installed on the main PC board to the left and right sides of The V-shaped bracket. Clear V-shaped optic collimator and metalized reflector will be installed over the PC boards for maximum illumination. The scene lights shall consist of 18 white Super-LEDs installed on the main PC board. The scene lights will be furnished with a clear optic collimator and metalized angled reflector for supreme radiance.

The warning lights shall include an internal flasher with 25 Scan-Lock™ flash patterns including low power and steady burn. The M9V2R shall also be provided with a synchronize feature. The M9V2R warning lights shall meet KKK 1822F, NFPA 1901, and NFPA 1917 specifications. The M9V2R perimeter lights shall meet AMD 024 with two M9V2R on each side of the vehicle and NFPA 13.10.1.2 for one M9V2R up to six feet.

The lens/reflector assembly shall be sealed and resistant to water, moisture, dust, and other environmental conditions. The hard coated lens shall provide extended life/luster protection against UV and chemical stresses. The light engine shall be installed at the rear of the unit and be vacuum tested to ensure proper sealing. The PC boards shall be conformal coated for additional protection.

The specified Whelen M9 lights shall be equipped with chrome plastic flange type light bezel mountings.

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ZONE C -- UPPER REAR WARNING LIGHTS

Two (2) Whelen M6 Series Model # M6K warning light shall be provided. The warning light shall incorporate Linear Super-LED® and Smart LED® technology. The M6R configuration shall consist of 18 red Super-LEDs and a red optic polycarbonate lens.

The lens/reflector assembly shall be sealed and resistant to water, moisture, dust, and other environmental conditions. The hard coated lens shall provide extended life/luster protection against UV and chemical stresses. The M6K light shall include a split design including red and amber LEDs, with a clear lens

The specified Whelen M6 lights shall be equipped with chrome plastic flange type light bezel mountings.

ZONE C- LOWER REAR

Two (2) Whelen M6 Series Model # M6RC warning light shall be provided. The warning light shall incorporate Linear Super-LED® and Smart LED® technology. The M6RC configuration shall consist of 18 red Super-LEDs and a clear optic polycarbonate lens.

The lens/reflector assembly shall be sealed and resistant to water, moisture, dust, and other environmental conditions. The hard coated lens shall provide extended life/luster protection against UV and chemical stresses.

REAR TRAFFIC ADVISOR, EIGHT (8) L.E.D. LAMPS

A Whelen TAZ86 eight lamp LINZ6 Super-LED Traffic Advisor with all amber lights shall be provided and mounted at the rear of the body. The solid state traffic advisor shall include model TACTL5 control head, or it can be directly connected to a Whelen CenCon Siren Head Controller.

BODY PAINTING SPECIFICATIONS

All exposed surfaces shall be prepared and painted using a multi-step process to ensure a blemish-free, protective coating for the base metal materials.

All removable items, such as brackets and compartment doors, shall be removed and painted separately to insure finish paint behind them after they are reinstalled.

Due to its modular design, the apparatus body shall be completely finish painted prior to its installation on the chassis.

The body shall be sanded, and cleaned. Any imperfections or defects in the metal shall be

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corrected with premium body filler and then sanded smooth.

An epoxy primer shall be utilized on all painted and coated surfaces and shall prepare the metal for the final paint. The direct-to-metal primer shall be used to create a first level seal allowing secure adhesion between the base metal and the subsequent substrates.

All body and components shall then be primed, thoroughly sanded, and meticulously inspected for any imperfections; which shall be properly corrected..

All surfaces shall then be painted with a base coat of premium paint following the guidelines as established by the paint manufacturer. The body shall be painted using a single color to match the cab primary color, and then shall be buffed to a high gloss finish.

INTERIOR COMPARTMENT FINISH

The interior wall, floor and ceiling surfaces of the body compartments shall be finished with PPG Brand, Amershiel Polyurethane industrial coating.

TOUCH-UP PAINT

Touch-up paint shall be furnished with the completed truck at final delivery.

VALVE PAINTING

All exposed valves shall be painted to match the color of the exterior body.

CAB AND BODY STRIPING

The cab and body shall have a straight Scotchlite reflective stripe applied horizontally. The stripe shall be a 4" minimum in width and be applied horizontally around the cab and body in accordance with NFPA standards.

CHEVRON STRIPING

The apparatus chevron striping shall be supplied by the customer.

WHEEL CHOCKS

Two (2) Worden brand, Model #HWC-7WH wheel chocks shall be provided.

5# DRY CHEMICAL FIRE EXTINGUISHER

One (1) 5# ABC dry chemical fire extinguisher and mounting bracket shall be provided on the

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apparatus. The extinguisher shall have a pressure gauge and shall be filled with a dry chemical extinguishing agent.

HYDRAULIC JACK

One (1) hydraulic jack shall be provided. The jack shall be designed for lifting capacity of twelve (12) tons.

LUG WRENCH

There shall be one (1) lug wrench provided and shipped loose with the completed apparatus.

REFLECTOR

A set of three (3) triangular reflectors shall be provided.



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4 PRODUCT WARRANTIES

Exhibit "D"



FIRE TRUCKS

STANDARD WARRANTY

BASIC COVERAGE:

BME Fire Trucks LLC. warrants each new piece of Fire and Rescue Apparatus to be free from defects in material and workmanship under normal use and service and will at it's option repair or replace any part of this vehicle which proves defective in material and/or workmanship with new or re-newed parts for the first 12 months from new vehicle delivery date. This warranty shall not apply to any new product, which has been subjected to misuse, neglect, modification, alteration, accident, and lack of normal maintenance or items used in routine maintenance.

COMPONENT COVERAGE:

Certain components are given additional warranty coverage of variable time periods and distance traveled limitations. Component examples are frame rails, chassis cab components, engines, transmissions, driveline systems, water tank, etc. and are warranted by their respective manufacturers. Extended warranties are also available on many other specified chassis and body components and can be purchased as needed with the vehicle. Additional warranty coverage and extended warranties will vary depending on components specified and supplied. You may obtain more information regarding additional and extended coverage by contacting BME Fire Trucks LLC. or your local Boise Mobile Equipment Dealer.

DISCLAIMER:

NO WARRANTIES ARE GIVEN BEYOND THOSE DESCRIBED HEREIN. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. THE COMPANY SPECIFICALLY DISCLAIMS WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OTHER REPRESENTATIONS TO THE USER/PURCHASER, AND ALL OTHER OBLIGATIONS OR LIABILITIES. THE COMPANY FURTHER EXCLUDES LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES, ON THE PART OF THE COMPANY OR SELLER. No person is authorized to give any other warranties or to assume any liabilities on the Company's behalf unless made or assumed in writing by the seller; and no other person is authorized to give any warranties or to assume any liabilities on the seller's behalf unless made or assumed in writing by the seller.

OBTAINING SERVICE:

Return the vehicle to any BME Fire Trucks LLC. dealer/authorized service center; return the vehicle to BME Fire Trucks LLC.; or contact BME Fire Trucks LLC. When contacted, BME Fire Trucks LLC. will authorize repair or replacement of parts as outlined above; will authorize a return



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of parts for inspection/repair or replacement if required; will direct you to the nearest Boise Mobile Equipment authorized service center if necessary.



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FIRE TRUCKS

10-YEAR BODY STRUCTURE WARRANTY

BODY STRUCTURAL WARRANTY

BME Fire Trucks LLC. (hereafter known as BME) warrants the fire body shall be free of structural or design failure or workmanship for a period of ten (10) years from the date the apparatus is put into service by the end user. This warranty is extended to the original purchaser only and terminates upon transfer of ownership or possession to any other entity.

A body is defined as the structure, which fabricated from steel, stainless steel or aluminum sheet metal and the associated framework that comprises fire body separate of the chassis cab area where the driver, passengers and controls are located. This warranty is strictly limited to that part of the body manufactured by BME and as defined above, exclusive of all hardware, purchased components, mechanical items, electrical items, or paintwork.

This warranty is expressly limited to the repair and/or replacement of defective items as BME may elect upon examination of any defects in material or workmanship. This warranty covers only labor for repair or replacement, which is reasonably necessary as determined by BME. All repairs must be expressly approved in writing by the BME warranty department prior to any work being performed. The failure to obtain approval for repairs from BME or to have the body repaired or replaced at BME or a place designated by BME shall void this warranty. Any repair or replacement performed by BME pursuant to this warranty shall be warranted under this warranty only for the duration of the original warranty.

BME's obligation to render any repairs under this warranty is subject to the following conditions in their entirety:

1. The claimed failure must be reported to BME, Inc within the above stated warranty period.
2. The claimed defective body must be returned to BME or an authorized BME warranty service center immediately after notification of BME. Transportation costs will be the responsibility of the purchaser, as will any charges for drivers, loading, unloading, or other costs associated with the transportation of the chassis.
3. BME will then have the unconditional right to examine the body to determine if the claimed defect falls within the scope of this warranty.



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This warranty shall not cover the following:

1. Damage caused by fire, misuse, neglect, or accident.
2. Damage caused by theft, vandalism, riot, or explosion.
3. Damage caused by acts of God such as lightning, flood, hurricane, etc.
4. Damage that may or may not, at BME's discretion, be caused by or associated with unauthorized repairs or modifications.
5. Damage that may or may not, at BME's discretion, be caused by or associated with lack or improper maintenance procedures.
6. Loss of time, loss of use of the chassis, inconvenience, lodging, food, or other consequential loss that may result from the claimed failure of the repair and claim procedure.

This warranty is expressly in lieu of all other warranties, expressed or implied.



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FIRE TRUCKS

STAINLESS STEEL & BRASS PLUMBING WARRANTY

BASIC COVERAGE:

BME Fire Trucks LLC. warrants to the original purchaser that the stainless-steel plumbing components and ancillary brass fittings used in the construction of the water/foam plumbing system are structurally sound, free of structural defects in design, material and workmanship and will not fail due to perforation caused by corrosion. BME Fire Trucks LLC. will at its option repair or replace any portion of the plumbing system, covered under this warranty, that proves to be defective in design, material and/or workmanship for a period of ten (10) years from the date the apparatus is first placed in service.

NOT COVERED:

This warranty shall not apply to any new apparatus that has been subjected to misuse, neglect, overloading, remounting, modification, alteration, accident, or lack of normal maintenance practices. The plumbing warranty shall terminate upon transfer of possession or ownership by original purchaser.

DISCLAIMER:

NO WARRANTIES ARE GIVEN BEYOND THOSE DESCRIBED HEREIN. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. THE COMPANY SPECIFICALLY DISCLAIMS WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OTHER REPRESENTATIONS TO THE USER/PURCHASER AND ALL OTHER OBLIGATIONS OR LIABILITIES. FURTHER, THE COMPANY EXCLUDES LIABILITY FOR CONSEQUENTIAL AND INCIDENTAL DAMAGES, ON THE PART OF THE COMPANY OR SELLER. No person is authorized to give any other warranties or to assume any liabilities on the Company's behalf unless made or assumed in writing by the seller; and no other person is authorized to give any warranties or to assume any liabilities on the seller's behalf unless made or assumed in writing by the seller.

OBTAINING SERVICE:

Return the vehicle to any BME Fire Trucks LLC. dealer/authorized service center or contact BME Fire Trucks LLC. BME Fire Trucks LLC. shall be solely responsible for determining the extent of repair under the terms of the warranty. Transportation costs shall be the responsibility of the purchaser.



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FIRE TRUCKS

PAINT WARRANTY

BASIC PAINT COVERAGE:

BME Fire Trucks LLC. PPG Paint Company warrants to the original purchaser the paint finish applied to each new piece of Fire and Rescue Apparatus to be free from defects in material and workmanship under normal use and service and will at its option repair or replace the paint of the damaged area. The warranty coverage shall be for a period of seven (7) years from the new vehicle delivery date. This warranty shall not apply to any new apparatus that has been subjected to misuse, neglect, modification, alteration, accident, and lack of normal maintenance practices.

SPECIFIC COVERAGE:

The paint finish applied to the BME Fire Apparatus is guaranteed to the original purchaser for a period of seven (7) years against the following:

- Peeling or delaminating of the topcoat and/or other layers of paint
- Cracking or checking
- Loss of gloss caused by cracking, checking, or chalking
- Any paint failure caused by defective paint materials covered by this guarantee

EXCLUSIONS:

A paint failure resulting from any of the following conditions is excluded from coverage:

- Paint deterioration caused by bubbles, blisters, or other film degradation due to rust or corrosion originating from the substrate
- Corrosion due to design/engineering (i.e., electrolysis dissimilar metals)
- Hazing, chalking or loss of gloss caused by improper care, abrasive polishes, cleaning agents, or heavy-duty pressure washing
- Paint deterioration caused by abuse, accidents, acid rain, chemical fallout, or other acts of nature
- Accidents, scratches, chips, or stone bruises due to normal vehicle use
- Repairs done over previously refinished areas unless stripped to bare metal
- Claims presented without proper guarantee documentation



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OBTAINING SERVICE:

Return the vehicle to any BME Fire Trucks LLC. dealer/authorized service center or contact BME Fire Trucks LLC. When contacted, BME Fire Trucks LLC. will authorize and will direct you to the nearest authorized paint repair facility if necessary.



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5 DEALER SUPPLIED PRODUCTS AND /OR SERVICES

Exhibit "E"

DEALER SUPPLIED PRODUCTS and/or SERVICES

The following products and/or services will be provided by Golden State Fire Apparatus Inc. (GSFA) prior to final delivery:

LICENSED MANUFACTURER

The State of California Vehicle Code, section 11701 requires “every manufacturer of a vehicle subject to registration shall make application to the Department of Motor Vehicles (DMV) for a license containing a general distinguishing number”. The manufacturer has a current license at time of proposal and shall provide a copy upon request. Temporary licenses are not acceptable.

LICENSED DEALERSHIP

The State of California Vehicle Code, section 11701 requires a “dealer in vehicles of a type subject to registration, shall make application to the Department of Motor Vehicles (DMV) for a license containing a general distinguishing number”. Golden State Fire Apparatus, Inc. has a current license at time of bid as outlined above and is available upon request. Temporary licenses are not acceptable.

LICENSED SALES REPRESENTATIVE

The State of California Vehicle Code, section 11800 requires that it shall be “unlawful for any person to function as a vehicle salesperson without having first procured a license issued by the Department of Motor Vehicles (DMV)”. The representative has a current vehicle salespersons license at time of proposal and shall provide a copy upon request. Temporary licenses are not acceptable.

VEHICLE REGISTRATION

The State of California Vehicle Code section 11739 requires that the “dealer of a new motor vehicle sale is responsible for applying for the title, securing vehicle registration, and obtaining license plates for the Customer” through the Department of Motor Vehicles (DMV). Golden State Fire Apparatus, Inc. is a factory-authorized dealer of the vehicle being sold and is authorized to register with the State of California as a new vehicle manufacturer.

GSFA will make all necessary applications and complete all transfer papers, including applying for California Exempt “E” license plates.

GRAPHICS PACKAGE ALLOWANCE

A graphics allowance of \$5,000.00 is included in the bid price. Any unused portion of this allowance will be credited back to the Customer on the final invoice or reimbursed in the form of a check.

COMMUNICATIONS PACKAGE ALLOWANCE

A communications allowance of \$25,000.00 is included in the bid price. Any unused portion of this allowance will be credited back to the Customer on the final invoice or reimbursed in the form of a check.

LOOSE EQUIPMENT PACKAGE ALLOWANCE

A loose equipment allowance of \$10,000.00 is included in the bid price. Any unused portion of this allowance will be credited back to the Customer on the final invoice or reimbursed in the form of a check.

FINAL INSPECTION, FACTORY TRIP

A final inspection trip to the manufacturing facility will be provided for three (3) Customer representative(s). The intent of this trip is to ensure that the apparatus is built to specification and to detect any deficiencies that require correction. The final inspection trip will have a duration of two (2) days and one (1) night and be scheduled at times mutually agreed upon between GSFA and the Customer. Costs for airfare, lodging, meals, and ground transportation while at the manufacturer’s location will be the

responsibility of GSFA. Air travel will be from one of the following airports: Sacramento, San Francisco, or San Jose.

Costs such as Customer ground transportation in California, Customer airport parking, Customer luggage fees and Customer incidentals while traveling to the factory will be the responsibility of the Customer. Flight reservations are non-refundable and in the event of a cancellation after booking, the Customer will be responsible for all costs associated with this cancellation, which may include not only the original ticket cost but also any change or cancellation fees imposed by the airline and/ or travel agency. Flight reservations are also non-transferable.

DELIVERY TO AUTHORIZED SERVICE FACILITY

GSFA will, at their expense, deliver the apparatus (including any applicable equipment, spare parts, and supplies) to their Northern California facility in Sacramento for a dealer preparation inspection.

To ensure proper break in of all components while still under warranty, the apparatus shall be delivered under its own power - rail or truck freight shall not be acceptable.

PRE-DELIVERY SERVICE

After transportation from the factory and prior to delivery, the apparatus will receive a pre-delivery service to confirm proper operation and correction of any issues found as a result of said inspection. The Golden State Fire Apparatus, Inc. pre-delivery service consists of the following:

- Engine Compartment and Undercarriage – Check for any broken mounting brackets and inspect for correct capacities of the following (if applicable): engine oil, coolant, power steering fluid, washer reservoir fluid, transmission fluid, rear end fluid, pump transmission oil, and primer oil.
- Interior – Operate all doors, windows, and locks for proper adjustment. Check upholstery.
- Exterior – Repair reasonable paint scratches or chips. Tighten any loose hardware and inspect tires and wheels for proper pressure and lug torquing.
- Road Test – With the water tank (if applicable) full, the apparatus will be driven approximately twenty miles which allows the drive train components to get up to operating temperature. Road test will be on both city and highway roads. A DOT compliant brake test will be conducted to ensure the system is holding air. The brake condition and wheel seals will also be inspected.
- Electrical - Operate all lights, sirens, and other electrical accessories to verify operation.
- Pump - If applicable, vacuum test the pump to hold for 15 minutes. After vacuum test, operate the relief valve, transfer valve and check pump shift. Check water tank for leaks and inspect water level gauge for calibration. With discharge caps loose, rapid test all individual gauges and main gauges for calibration. Lubricate valve rods.
- Foam System – If applicable, tighten caps and connect foam lines. Test selector, valves, metering valve and operation of foam system (including flush).
- Fuel Tank - Fuel tank will be filled at the dealership location prior to final delivery.
- DEF Tank - DEF tank will be filled at the dealership location prior to final delivery.

- Wash - The apparatus will be thoroughly washed at the dealership location prior to final delivery.

FINAL DELIVERY (CUSTOMER LOCATION)

GSFA will, at their expense, deliver the Product (including any applicable equipment, spare parts, and supplies) to the Customer specified address once completed. Prior to delivery of the Product, Customer agrees to provide proof of liability and physical damage insurance to GSFA. GSFA will not release the Product to the Customer until such proof of insurance is provided.

It is the responsibility of the Customer to have any outstanding balance due, paid in full to GSFA, prior to or at the time that the Product is complete and ready to deliver. If payment is late or delivery is delayed pending payment, a daily finance charge of \$150.00 and a daily storage fee of \$50.00 may apply until such payment is received.

Due to insurance liability, the Product will not be delivered without full acceptance and full payment (or prior written agreement between the Customer and GSFA).

END OF DEALER SUPPLIED PRODUCTS and/or SERVICES