

**Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s)
and Equipment**



Skagit County Fire Protection District #8



SKAGIT COUNTY FIRE PROTECTION DISTRICT #8
20464 PRAIRIE ROAD
SEDRO WOOLLEY, WA 98284

BID PACKAGE #011112

Consisting of
A Cover Letter, Advertisement for Bid,
Instructions to Bidders and Bid Specifications

FOR

Two (2) or More Fire Engines as Specified

FIRE CHIEF – RUSTY FEAY
20464 Prairie Road, Sedro Woolley, WA 98284
Phone 360-724-4703 - Fax 360-724-3166 E-mail-skagitf8@wavecable.com

**Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s)
and Equipment**

**ADVERTISEMENT FOR BIDS
SKAGIT FIRE PROTECTION DISTRICT #8**

Sealed bids will be received by the undersigned at the office of SKAGIT COUNTY FIRE PROTECTION DISTRICT #8 at 20464 Prairie Road, Sedro Woolley, WA 98284 up to 6:00 p.m. on January 9, 2012, for two new Fire Engines, after which time bids will no longer be accepted. The sealed bids will be opened be publicly and read aloud at that time.

The contract may be awarded at the January 11th regular Fire Commissioners meeting at the Prairie Road Fire Hall at 7:00 PM or at a later date.

Bid documents can be downloaded from Sedro Woolley Fire Department website at <http://www.ci.sedro-woolley.wa.us> and then click on "Bids & Awards". Bid documents can also be obtained at the Fire District office located at 20464 Prairie Road, Sedro Woolley, Washington. Do not send the sealed bids to the city of Sedro Woolley Fire Department.

Bid packages shall be submitted at the office of Skagit County Fire Protection District #8 in a sealed envelope marked: Sealed Bid for Fire Engines, along with the bid date and time of the bid opening.

Skagit Fire District #8 reserves the right to reject any or all bids, to waive minor irregularities in any bids or in the bidding procedure and to accept the lowest responsible bid that meets or exceeds the specifications and is deemed to be in the best interest of Skagit County Fire Protection District #8 and the citizens residing therein. This may or may not be the bid with the lowest bid price.

SKAGIT COUNTY FIRE PROTECTION DISTRICT #8
DATED December 20, 2011

By
Rusty Feay
Skagit Fire District #8 Chief
Fire Engine Bid Package #011112

**Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s)
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Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

GENERAL INSTRUCTIONS

Skagit County Fire District #8 herein referred to as the "Purchaser", shall receive sealed proposals up to 6:00 PM PDT on 1/09/2012 for supplying two (2) or more new Triple Combination Pumper(s) and equipment as outlined in the following specifications. No bid proposal shall be considered except those submitted on the bid proposal form supplied by the Purchaser.

Comply Yes () No ()

The Purchaser reserves the right to accept or reject any or all bids, and to accept the bid deemed to be in the best interest of the Purchaser. The Purchaser is not bound to accept the lowest price submitted. The Bidder whose bid most closely meets the Purchaser's specifications and demonstrates the qualities desired by the Purchaser shall be chosen as the successful provider.

Comply Yes () No ()

It is the intent of these specifications to secure competitive bids to provide for the construction and delivery the apparatus described in detail within the following specifications. These bid specifications detail the requirements for general design criteria of the unit desired, the chassis, body, and electrical systems and equipment to be supplied. These bid specifications are not designed to be proprietary or restrictive; however, they are intended to demonstrate the high quality and value desired by the Purchaser. The Purchaser desires an apparatus closely meeting the guidelines and design criteria specified herein for uniformity among our apparatus; however, as noted, exceptions shall be considered, provided proper supporting information is supplied so the Purchaser can compare and evaluate the exceptions to the specifications.

Comply Yes () No ()

If any information contained in the bid specification document appears to be proprietary in nature, Fire District #8 will consider substitutions of that portion of specification with equal or better quality components. The determination of equal or better quality shall be solely determined by Fire District #8. **No Exceptions.**

In evaluating the proposals, these major items shall be considered: commitment to delivery, length and terms of warranties, manufacturers' locations and regional track records for performance, location of post-delivery service and parts, compliance with bid specifications, completeness of the bid, price and information supplied, etc.

Comply Yes () No ()

The National Fire Protection Association "Standard for Automotive Fire Apparatus, 2009 Edition", is hereby adopted and made a part of these specifications, the same as if it were written out in full detail, with the exception of the section dealing with "Equipment Recommended for Various Types of Apparatus". Bidders shall provide the equipment requested herein and the buyer shall supply the rest before the apparatus is put into service. It is the intent of the purchaser to purchase an apparatus that meets 100% of the minimum standards defined and outlined in NFPA 1901-2009 Edition. There are to be no exceptions to this requirement.

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Comply Yes () No ()

The units proposed shall closely meet the specific requirements and intent of the requirements as specified herein. All items of the specifications shall conform to the character of the proposed equipment, and the purpose for which it is intended.

Comply Yes () No ()

COOPERATIVE PURCHASING

Purchaser allows cooperative purchasing between public agencies (political subdivisions) per RCW 39.34 within the State of Washington. Additionally, other States which allow reciprocal agreements such as Oregon per ORS 279A.220 will be allowed to purchase apparatus off this proposal in accordance with the terms and conditions submitted herein. Public agencies which have filed an Intergovernmental Cooperative Agreement with the Purchaser and which are actively participating may purchase from Purchaser's contracts, provided that the Contractor has agreed to such participation. Each Contractor shall indicate on the proposal submittal form if their organization shall honor other public agency orders in accordance with contract terms and conditions in addition to orders from the Purchaser. The Purchaser does not accept any responsibility for purchase orders issued by other public agencies.

Comply Yes () No ()

REFERENCES

List up to five municipalities (cities, counties and other municipalities) for whom your company has most recently manufactured and delivered a unit of the type described in these specifications. Units shall be those which are currently in normal fire service use having no defects causing the apparatus to give unsatisfactory service attributable to workmanship, materials, or construction techniques.

Municipality _____ Contact _____ Phone _____

Municipality _____ Contact _____ Phone _____

Municipality _____ Contact _____ Phone _____

Municipality _____ Contact _____ Phone _____

Municipality _____ Contact _____ Phone _____

Comply Yes () No ()

BID SECURITY

Each Bidder must provide a bid bond or a cashier's check with his or her proposal for the amount of ten percent (10%) of the bid price of the proposal submitted.

Comply Yes () No ()

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PERFORMANCE BOND

A 100% Performance Bond shall be supplied within thirty days of bid award if the Purchaser elects to take advantage of any prepayment offerings. The signatures of both buyer and Bidder on the contract shall construe awarding of the bid. The prime apparatus builder shall provide the performance bond. Any bonds supplied by the dealer or representative shall not be acceptable.

Comply Yes () No ()

BIDDING REQUIREMENTS

Any manufacturer submitting a proposal or bid, to these specifications; shall meet the following conditions. Exceptions to these conditions shall not be allowed under any circumstances.

Comply Yes () No ()

It is preferred that the manufacturer of the apparatus be wholly owned and managed by a Company, Corporation, and/or Parent Company that is wholly based and permanently resides in the United States of America. This may be considered in the award of the bid at the discretion of the purchaser.

Comply Yes () No ()

Any proposal, bid, or response to these specifications by any Company, Corporation, and/or Parent Company, that is owned, operated, managed, or held in contract; in part or wholly by a partnership or other agreement; may be cause for rejection.

Comply Yes () No ()

Each Bidder shall provide satisfactory evidence of their ability to construct the unit and supply service, parts, and technical assistance for the equipment bid. Bidder shall state the location of the factory at which the complete apparatus shall be constructed. Bidder shall also state the location where post-delivery service is available.

Comply Yes () No ()

The Purchaser seeks bids from qualified Bidders offering complete service facilities within a reasonable distance from the Purchaser. After delivery support and service is of extreme importance to the Purchaser. Bidder shall include the location, information, photos and capabilities of their local service center and personnel available. Service personnel must be available 24 hours per day, seven (7) days a week to provide emergency service or technical support as required by the Purchaser.

Comply Yes () No ()

Bidder's local facilities should include mobile service capability for "on site" apparatus service.

Comply Yes () No ()

Proposals are desired from companies that have an established reputation in the field of fire apparatus construction and have been in business for a minimum of twenty-five years. Bidders shall state amount of time in business in the same location.

Comply Yes () No ()

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EXCEPTIONS & CLARIFICATIONS TO SPECIFICATIONS

Each Bidder shall indicate compliance with these specifications by checking the bid compliance question where it appears in each section of the bid. Checking “Yes” in that section shall mean full compliance with all portions of the paragraph. Checking “No” shall mean an exception or clarification is being taken to all or part of that paragraph.

Comply Yes () No ()

The buyer is aware that all bidders shall have to take some exceptions therefore, BIDDERS THAT TAKE NO EXCEPTIONS shall BE REQUIRED TO MEET EVERY PARAGRAPH TO THE FULLEST EXTENT, SHOULD THEIR BID BE ACCEPTED. It is the intent of the purchaser to receive bids that do not require telephone calls or other communications to ascertain what a Bidder is intending to supply.

Comply Yes () No ()

Upon delivery, the apparatus shall be inspected against THESE specifications and not those supplied by the Bidder with their proposal. Deviations shall not be acceptable unless they were noted, as exceptions at the time of bid and the apparatus shall be rejected until said deviations are corrected to the satisfaction of the Purchaser.

Comply Yes () No ()

Decisions regarding equal to or better than, shall be the sole responsibility of the recipient of the Bids rather than those companies submitting bids. All deviations, regardless of significance must be explained in the “Exceptions to Specifications” section of the bid.

Comply Yes () No ()

When exceptions are not taken but inconsistencies are noted in the submitted detailed specifications, the bid may be subject to rejection.

Comply Yes () No ()

Exceptions shall be referenced to the paragraph, page number and item description of these Specifications where the item appears, and drawings or photographs and technical information about the exception shall be provided with the bid. Any exceptions taken may be considered during the bid evaluation process. The Purchaser shall be the sole judge as to the acceptability of any of the items listed as exceptions, and the decision of the Purchaser shall be final.

Comply Yes () No ()

Bids with no exceptions may be given preference over those with exceptions regardless of the Cost differential.

Comply Yes () No ()

Bids taking total exception to these specifications shall not be considered. Alternate bids on “like” apparatus shall not be considered.

Comply Yes () No ()

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SPECIFICATION ACKNOWLEDGEMENT

Bidder's shall be required to acknowledge that they have thoroughly read and understand each page of this specification by either providing an initial of an officer of the Bidder or company stamp on the bottom right corner of each page. In doing so, the Bidder therefore acknowledges that they comply with the specifications unless a particular items is checked "NO". Failure not to acknowledge each page may result in the rejection of their proposal.

Comply Yes () No ()

WRITTEN PROPOSAL SPECIFICATIONS

Each bid shall be accompanied by a detailed description (Bidder's bid) of the work and equipment it proposed to furnish. It is the intent of these specifications to provide for the delivery of a complete and soundly engineered vehicle equipped as specified. Minor details of construction and materials, where not otherwise specified, are left to the discretion of the Bidder who shall be solely responsible for the design and construction of all features.

Comply Yes () No ()

Some items in these specifications have been specified by brand name or model number. These items have been carefully selected because of their quality, reliability, and the availability of local replacement. In order for bids to be considered responsive, equipment specified or Purchaser-approved "equals" shall be contained in bid proposals.

Comply Yes () No ()

The Purchaser shall be the sole judge of the acceptability of any item proposed as an "equal" to any specified item. Supporting technical information, literature, samples, and other support material shall be provided by the Bidder with bid items not in accordance with specifications.

Comply Yes () No ()

PROPOSAL SPECIFICATION SEQUENCE

Bid specifications shall be submitted in the same sequence as these specifications for ease of checking compliance. The apparatus committee intends to be thorough during the evaluation of bids process. In order to maximize efficiency and minimize the time it takes to thoroughly evaluate all received bids this requirement must be strictly adhered to.

Comply Yes () No ()

SPECIAL CONDITIONS

No bid shall be considered unless the Bidder can meet the special conditions enumerated below.

Comply Yes () No ()

The Manufacturer or Manufacturer's authorized Dealer shall be a licensed and bonded vehicle dealer for the State of Washington. Bidder shall include proof of such certificates in their bid proposal. If the Bidder is a manufacturer bidding direct and not through a dealer or distributor, then they shall submit a copy of the appropriate dealer's license. Bids received from Bidders and or manufacturers not licensed as a vehicle dealer within the State of Washington shall be rejected.

Comply Yes () No ()

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The Bidder shall be the authorized distributor of the apparatus bid and shall provide a notarized statement declaring such with the bid. Bids not complying with this requirement are not acceptable. **NO EXCEPTIONS.**

Comply Yes () No ()

LIABILITY INSURANCE COVERAGE

In order to protect the department and its personnel, the Bidder shall show proof that it has no less than \$30 million in liability insurance in force. A certificate of coverage shall be included in the bid package. Failure to carry liability insurance of at least this amount or failure to include proof of coverage shall be cause to reject the Bidder's proposal.

Comply Yes () No ()

PRICE, PAYMENT, AND DELIVERY

All bid prices shall be F.O.B. the Purchaser's location in Sedro Woolley, Washington. The apparatus shall be transported under its own power to the location of the Purchaser. A credit may be offered for delivery of each unit as listed on the Bid Proposal Page.

Comply Yes () No ()

All prices quoted shall be valid for a period of not less than forty five (45) days after bids are opened.

Comply Yes () No ()

All bids shall be submitted on the enclosed bid form provided with these specifications. The form shall be completely filled out and signed by the company officer with the appropriate authority or the bid shall be rejected as unresponsive. **NO EXCEPTIONS.**

Comply Yes () No ()

All bids shall include the completed Non-Collusion Affidavit found within these specifications.

Comply Yes () No ()

The total price on the specified bid shall include all items and components as listed in these specifications. Listing any items contained in these specifications as an extra cost item, unless otherwise specified, shall automatically be cause for rejection.

Comply Yes () No ()

Bidders shall state the maximum delivery time based on the number of actual calendar days from date of receipt of order from the Purchaser, regardless of the cab and chassis production and delivery date.

Comply Yes () No ()

The Purchaser reserves the right to assess a two-hundred dollar (\$200.00) per day reduction in the bid price for each day that exceeds the maximum delivery time stated by the Bidder.

Comply Yes () No ()

Before final acceptance of the unit it shall be tested in the presence of an authorized

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representative of the Purchaser. The Purchaser reserves the right to perform actual performance tests to evaluate the unit, prior to acceptance. Testing shall be done with the assistance of the Bidder.

Comply Yes () No ()

In the event the unit fails to meet the test requirements on first trials, second trials may be made within thirty (30) days of the date of the first trials. Housing or storing the unit on the Purchaser's property shall not constitute acceptance of the unit until testing is completed.

Comply Yes () No ()

Payment in full shall occur within 30 days after the completed unit has been evaluated, tested, and accepted at the purchaser's location to the full satisfaction of the Fire Chief or his designee.

Comply Yes () No ()

PREPAYMENT DISCOUNTS

Bidders are encouraged to offer prepayment discounts in their proposals however; the bid price shall not include any requirement of prepayment and any discounts shall be offered as available options and the cost of a 100% Performance Bond shall be added.

Comply Yes () No ()

CONTRACT AWARD

All bids submitted shall be good for a minimum of 45 days during which time bid securities submitted with the proposals shall be held by the purchaser. Criteria for the award shall include, but not be limited to, the following:

- Apparatus Performance And Safety Levels / Considerations
- Completeness of proposal
- Accuracy of accompanying data
- Past performance of Bidder
- Compliance with the detailed specifications
- Compliance with purchasers request(s) for personnel qualifications or certifications
- Exceptions and clarifications
- Financial stability of Bidder
- Local representation of the manufacturer
- Serviceability of the proposed apparatus
- Service capabilities of the Bidder's local representative
- Compliance with NFPA Pamphlet 1901 (newest edition)
- Any other factor the purchaser deems relevant

After the evaluation and award process is complete, all Bidders shall be notified of the results and securities shall be returned.

Comply Yes () No ()

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The Purchaser reserves the right to reject any or all proposals deemed by the Purchaser to be unresponsive. Contract shall be awarded and purchase order issued to the Bidder most closely meeting the Purchaser attached specifications based upon the criteria of the Purchaser.

Comply Yes () No ()

The Purchaser reserves the right to waive any informalities, irregularities and technicalities in procedure. The purchaser is not bound to accept the low bid proposal.

Comply Yes () No ()

The purchase contract for this purchase shall be based on the Contract form which is attached as Exhibit A to these bid specifications.

Comply Yes () No ()

LIABILITY

The Bidder, if their bid is accepted, shall defend any and all suits and assume all liability for the use of any patented device or article forming part of the apparatus or any appliance furnished under the contract.

Comply Yes () No ()

APPARATUS TEST BY UNDERWRITERS LABORATORIES

The following Apparatus shall comply with all NFPA 1901 applicable regulations in effect as of the contract signing date. There shall be multiple tests performed by the contractor and Underwriters Laboratories when the apparatus has been completed. The manufacturer shall furnish the completed Test Certificate(s) to the purchaser at time of delivery. Since the inspection services of Underwriters Laboratories are available to all Bidders on an equal basis, no other third party testing service shall be acceptable. The tests conducted on the apparatus shall include, but not be limited to:

Comply Yes () No ()

UL PUMP & PLUMBING PERFORMANCE TEST

The apparatus pump and plumbing system shall be UL tested and certified.

Comply Yes () No ()

UL 12 VOLT ELECTRICAL TEST

The apparatus low voltage electrical system shall be UL tested and certified.

Comply Yes () No ()

WARRANTIES

The Purchaser requires that the below listed warranties shall have a single source warranty provided by the successful manufacturer in which all warranties on the entire apparatus shall be administered and coordinated through the apparatus manufacturer.

Comply Yes () No ()

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Each Bidder shall submit a copy of the warranty to be supplied with the completed apparatus. The warranty shall be reviewed for exceptions and limitations. It must meet or exceed the minimum warranties specified below:

Comply Yes () No ()

GENERAL WARRANTY

A warranty shall be offered for each new fire apparatus manufactured for a minimum period of one (1) year from the date of delivery, except for the commercial chassis and certain other components as noted in the next paragraph.

Comply Yes () No ()

As a commercial chassis is being used, the warranty on the chassis, engine, transmission, tires, storage batteries, generators, electrical lamps and other devices subject to deterioration is limited to the warranty of the manufacturer thereof and adjustments for the same are to be made directly with the manufacturer by the Purchaser.

Comply Yes () No ()

STRUCTURAL WARRANTY

A structural warranty shall be provided by the apparatus manufacturer for products of its manufacture to be free from defects in material and workmanship, under normal use and service, for a minimum period of ten (10) years. A copy of the Bidder's warranty shall be provided in their proposal for review by the Purchaser.

Comply Yes () No ()

PAINT WARRANTY

A ten (10) year limited Paint Warranty shall be included with the apparatus. A copy of the Bidder's warranty shall be provided in their proposal for review by the Purchaser.

Comply Yes () No ()

DARLEY PUMP WARRANTY

W. S. Darley & Co. shall provide a limited manufacturer's warranty to be free from defects in materials and workmanship, under normal use and service, for a minimum period of six (6) years from the date placed into service, (6 ½) years from the date of manufacture or 6000 hours of usage {unless otherwise specified} whichever comes first. Please see the official warranty document in the appendix (attached) for specific details.

Comply Yes () No ()

TANK WARRANTY

A lifetime tank warranty will be provided by the tank manufacturer. A copy of the warranty shall be provided with each Bidders proposal for the review and evaluation of the Purchaser.

Comply Yes () No ()

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

MULTI-PLEXED ELECTRICAL WARRANTY

A four (4) year limited (V-MUX) multiplex system warranty, of Weldon Technologies, Inc; shall be provided by the apparatus manufacture for parts and labor, while under normal use and service; against mechanical, electrical and physical defects from the date of installation.

Comply Yes () No ()

WARRANTY & SERVICE REQUIREMENTS

Complete details of the manufactures warranties shall be provided with the bid proposal. All standard and available warranties shall be transferred to the purchaser with the assistance of the manufacturer.

Comply Yes () No ()

Each Bidder must be able to display that they are actively in the fire apparatus service business. The successful Bidder shall maintain an established service center and parts depot capable of satisfying the warranty service purchased for both the cab and chassis, and the body.

Comply Yes () No ()

The Bidder must state the location of its authorized service center. This service center must have a staff or factory-trained mechanics available, well versed in all aspects of service for all major components of the apparatus. It is preferred that the distributor's service center be within 50 driving miles from Sedro-Woolley, Washington. Bidders shall enclose a photograph of their Service Center.

Comply Yes () No ()

The Final Stage Manufacturer and or appropriate dealer shall provide authorization to the Purchaser to perform necessary warranty repairs on a case by case basis, if deemed in the best interest of the Purchaser. Under no circumstances shall this preclude any Bidder from compliance of items listed above. The manufacturer shall provide any parts or special or proprietary tools necessary to complete the specific job. The final stage manufacturer or appropriate party shall be invoiced for any materials or labor costs incurred by the Purchaser. Labor costs shall be invoiced to the appropriate party at the current shop rate at the time of repair. Shop rate shall be negotiated between the Purchaser and the appropriate party. **No Exceptions.**

Comply Yes () No ()

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.

Comply Yes () No ()

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

Comply Yes () No ()

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

All materials used shall be of the highest quality available. Second rate or poor quality components are not desired by the Purchaser. The Purchaser shall be the sole judge of quality materials and workmanship.

Comply Yes () No ()

TECHNICAL INFORMATION

Bidder shall provide free of charge upon request technical information, graphs, charts, photographs, engineering diagrams, steering geometry, instruction guides, or other documentation as requested to show that the equipment offered fully complies with these specifications.

Comply Yes () No ()

Drawings including, but not limited to, the overall dimensions, wheelbase, and overall length of the proposed apparatus shall be required with the bid. The drawing shall include right, left, and rear views of the apparatus. For purposes of evaluation, a drawing illustrating, but not limited to, the overall dimensions, wheelbase, and overall length of the proposed apparatus and other specified equipment, shall be required to be included with the Bidder's proposal package.

Comply Yes () No ()

The drawings shall be large "D" size (minimum 24" x 36"). Smaller size drawings, "similar to" drawings or general sales drawings, shall not be acceptable. Failure to provide a bid evaluation drawing in accordance with these specifications shall be cause for rejection of the bid proposal.

Comply Yes () No ()

After award of the bid, the contractor shall provide detailed colored engineering drawings for use at the pre-construction conference. These drawings shall include, but not limited to, the overall dimensions, wheelbase and overall length of the proposed apparatus shall be required with the bid. The drawing shall include right, left, top and rear views of the apparatus.

Comply Yes () No ()

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. Weight balance and distribution shall be in accordance with the State of Washington and all Federal laws.

Comply Yes () No ()

The height of the fully loaded vehicle's center of gravity will not exceed the chassis manufacturer's maximum limit.

Comply Yes () No ()

The front to rear weight distribution of the fully loaded vehicle will be within the limits set by the chassis manufacturer. The front axle load of the fully laden apparatus will not be more than the maximum axle load specified by the chassis manufacturer, under full load and all other loading conditions, including reserve as required by NFPA 1901

Comply Yes () No ()

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

The difference in weight on the end of each axle, from side to side, when the vehicle is fully loaded and equipped will not exceed 7 percent.

Comply Yes () No ()

A full set of weight and balance charts shall be provided with the bid detailing out the projected weight of the fully laden apparatus to determine the appropriate wheelbase, axles, suspension and components for the apparatus as bid.

Comply Yes () No ()

FINITE ELEMENT ANALYSIS AND TESTING

Finite Element Analysis shall have been utilized in evaluating and engineering the critical areas of the apparatus body. Prototype bodies shall have been subjected to rigorous testing over varied terrains simulating different environmental conditions. The purpose of such complex engineering methods of analysis shall be to ensure the longevity of the design by analyzing stress levels throughout the body and incorporating the structural supports wherever necessary.

Comply Yes () No ()

There shall be a minimum of 3 different load cases (per DOT, FHWA, and TTMA recommended practice) applied and analyzed to properly display the different areas and levels of stresses that will be present under the various operating conditions of the apparatus. This is in addition to the static stress analysis. The analysis shall have included the weight of the structure plus an estimate of all the components that exist on a fully loaded apparatus (i.e. equipment in compartments, etc.).

Comply Yes () No ()

Analysis shall also have been conducted on the mounting system for the apparatus body and pump house. Detailed colored drawings shall be supplied with the Bidder's proposal.

Comply Yes () No ()

MAXIMUM OVER ALL WIDTH OF NINETY-NINE (99) INCHES

The Apparatus specified shall be constructed as detailed and shall NOT exceed a Maximum Over All Width of Ninety-nine (99) Inches. This dimension shall include the primary construction of the apparatus body and chassis cab. Any peripherals that are 'removable' shall not be incorporated into this measurement. Items that are considered 'removable' are: Rub Rails, Fenderettes, Mirrors, Lights, Handrails, Front Bumpers, etc.

Comply Yes () No ()

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

SALES ENGINEER

The successful Bidder shall designate a competent individual acceptable to the Purchaser, to perform the Bidder's Sales Engineer function. The Sales Engineer shall provide a single point interface between the Purchaser and the Bidder on all matters concerning the successful delivery and completion of the apparatus. The Sales Engineer shall attend all construction meetings and inspection trips, at no additional expense to the Purchaser, throughout the entire construction process, to maintain the continuity of the sales process.

Comply Yes () No ()

FACTORY PRECONSTRUCTION CONFERENCE

The factory authorized Distributor shall provide, prior to manufacturing, a preconstruction conference at the manufacturing facility with a factory representative present and two (2) representatives of the Purchaser to finalize all construction details. This shall be listed as an optional deduction on the bid form document.

Comply Yes () No ()

The factory's authorized distributor shall, at his expense, provide transportation, lodging, and meals. Any distance greater than 275 miles shall be by commercial air travel.

Comply Yes () No ()

FINAL INSPECTION CONFERENCE

The factory authorized Distributor shall provide a final completion inspection trip at the site of the dealers manufacturing facility with two (2) representatives of the Purchaser to inspect the apparatus prior to final delivery. Bidders shall list this cost on bid form as noted to allow purchaser option to consider number of trips required and reduce cost. May be combined with purchaser pickup of the units at the factory, if so desired by the purchaser.

Comply Yes () No ()

The factories authorized distributor shall, at his expense, provide transportation, lodging, and meals. Any distance greater than 275 miles shall be by commercial air travel.

Comply Yes () No ()

ON-LINE PURCHASER INTERACTION

The manufacturer shall provide the capability for online access through the manufacturer's web site. There shall be a dedicated section of the web site for Purchasers to access the status of their apparatus during the construction phases. In this secured area Purchasers will be able view specified digital photos of their apparatus during the construction phases. The following photos will be provided with this service:

1. Chassis
2. Body, pre-paint (front, rear, left and right side)
3. Body painted and pump module mounted (front, rear, left and right side)
4. Assembly (front, rear, left and right side)

Comply Yes () No ()

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

Due to the complex nature of fire apparatus and the importance of communication between the Purchaser and the manufacturer there shall be no exceptions allowed to this requirement.

Comply Yes () No ()

SPECIFICATION ADDENDA

All specification addenda shall be issued by the Purchaser in written format. Verbal forms of addenda or otherwise shall not be issued or considered part of this specification no matter how minor. The Bidder shall acknowledge receipt of all written addenda on the provided price form and in the spaces provided in these documents.

Comply Yes () No ()

REGISTRATION

All necessary paperwork to register the apparatus with the Washington State Department of Licensing as a motor vehicle shall be furnished at the time of delivery. This includes a “Manufacturer’s Statement of Origin” (MSO) and Washington State title application.

Comply Yes () No ()

CONTRACT EXTENSION PROVISION

The Purchaser reserves the right to exercise the purchaser of additional apparatus from the final Contract for a period of up to five (5) years if in the best interest of the Purchaser. Additional purchases shall be based upon negotiated price adjustments following the Consumer Price Index and annual adjusted rate of inflation for emergency vehicles.

Comply Yes () No ()

PURCHASER AUTHORIZED CONTACT

For questions regarding these specifications, Bidder’s may contact Chief Rusty Feay at 360-724-4703 during normal office hours, Monday through Friday.

Comply Yes () No ()

Contact with any elected official of the Purchaser regarding these specifications or the bid process for the duration of the bid process is prohibited. Any Bidder violating this requirement shall have their bid rejected immediately without further explanation. **NO EXCEPTIONS.**

Comply Yes () No ()

SUBMISSION OF BID PROPOSALS

Bidders shall submit their bid proposal in a sealed envelope or box clearly marked “BID FOR PUMPERS” on all visible sides, addressed to:

**Skagit County Fire District #8
20464 Prairie Road (hand delivery or courier)
Sedro Woolley, WA. 98284**

The Purchaser is not responsible for proposals that are delivered late. It is the responsibility of the Bidder to be sure the proposals are sent sufficiently ahead of time to be **RECEIVED NO LATER THAN 6:00 PM PDT on January 9th, 2012.**

Comply Yes () No ()

**Skagit County Fire District #8
Sedro-Woolley, Washington**

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

At any time prior to the scheduled closing time for receipt of bids, any Bidder may withdraw such Bidder's proposal by providing written notice to the Purchaser at the addresses set forth above.

Comply Yes () No ()

Bids shall be accepted in hard copy format only. Proposals submitted either by facsimile or electronic documents shall not be accepted and shall be not be considered however; support information requested by the Purchaser may be accepted at the Purchaser's discretion when required after the bid opening.

Comply Yes () No ()

BID PROPOSAL OPENING

Bid proposals received shall be publicly opened immediately afterwards.

BID PROPOSAL AWARD

The Purchaser intends to award a contract either at the time of the bid opening or at the next scheduled Board Meeting within 15 days of bid opening, unless otherwise determined by the purchaser.

TRADE IN APPARATUS

The Purchaser requests that bidders submit a trade in allowance on the following two (2) district owned surplus vehicles;

- E-832, a 1981 Darley Pumper on Ford C-800 Series chassis. Engine is a Detroit 8.2L diesel with Allison MT-643, approx. 20,100 miles. **Allowance:** \$ _____
- E-852, a 1984 Darley Pumper on Ford C-8000 Series chassis. Engine is a Caterpillar 3208 with Allison MT-643, approx. 15,000 miles. **Allowance:** \$ _____
- Contact Chief Feay to view vehicles or for more information.

Note that above vehicles may be traded by the district, however this is not a specific factor on determing the most responsive bidder.

MANDATORY PROPOSAL FORM

**Skagit County Fire District #8
Sedro-Woolley, Washington**

**Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s)
and Equipment**

**SKAGIT COUNTY FIRE DISTRICT #8
20464 PRAIRIE ROAD
SEDRO WOOLLEY, WA. 98284**

Bidder's Name and Address

Person to Contact

Manufacturer's Name and Address

Person to Contact

After reviewing the attached specifications and information, we the above listed Bidder, hereby submit the following Bid Proposal to Skagit County Fire District #8 for the furnishing of two (2) or more, new Triple Combination Pumper Apparatus and equipment as specified in the attached specifications.

Complete Pumper apparatus cost less tax, (each). \$ _____

Delivery time shall be _____ days from time of agreement (in calendar days).

List inspection trip cost, per person, per trip:	\$ _____
Are there any exceptions to the specifications?	Yes () No ()
Proof of insurance included	Yes () No ()
Washington State Dealer License included	Yes () No ()
F.O.B. to the Purchaser	Yes () No ()
Cost included in proposal for delivery to purchaser?	\$ _____
Prepayment Discounts Provided	Yes () No ()
100% Performance Bond Available	Cost: \$ _____

Service Center distance from Sedro-Woolley, Washington in miles _____

Signature of Authorized Officer of Bidder:

Signature _____ Date _____

Printed Name _____ Date _____

THIS FORM IS TO BE PLACED IN THE FRONT OF THE BIDDERS PROPOSAL

**Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s)
and Equipment**

SERVICE CENTER LOCATION

Name & Location (Address) of Authorized Service Center:

Contact: _____

Phone #: _____

RECEIPT OF ADDENDA

The Bidder shall acknowledge receipt of all written addenda below:

Addenda # _____ Date Received: _____ Authorized
Signature: _____

Addenda # _____ Date Received: _____ Authorized
Signature: _____

Addenda # _____ Date Received: _____ Authorized
Signature: _____

Addenda # _____ Date Received: _____ Authorized
Signature: _____

THIS FORM IS TO BE PLACED IN THE FRONT OF THE BIDDERS PROPOSAL

**Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s)
and Equipment**

**SKAGIT COUNTY FIRE DISTRICT #8
NON-COLLUSION AFFIDAVIT**

STATE OF WASHINGTON

COUNTY OF SKAGIT

The undersigned, being duly sworn, on oath deposes and says that the person, firm, association, co-partnership or corporation herein named has not either directly or indirectly entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in the preparation and submission of a proposal to the Owner for consideration in the award of a contract on the improvements described as follows for Skagit County Fire District #8:

Supply Two (2) or more, new Triple Combination Pumper Apparatus & Equipment per plans and specifications

Firm Name

Authorized Signature

Type Name

Title

Sworn to before me, this _____ day of _____, 2012.

Notary Public
in and for the State of _____
Residing at _____
My Commission Expires ____

THIS FORM IS TO BE PLACED IN THE FRONT OF THE BIDDER'S PROPOSAL

**Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s)
and Equipment**

EXCEPTIONS TO SPECIFICATIONS:

Exceptions to these specifications shall be noted below. All exceptions taken shall be recorded per the guidelines defined above. Each exception shall be noted by page number and item header. If additional space is required for exceptions, then the Bidder shall use additional paper as necessary, however the same format shall be used.

Page #: _____
Header: _____
Exception: _____

Page #: _____
Header: _____
Exception: _____

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**Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s)
and Equipment**

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Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

INTERNATIONAL 7400 SFA 4X4 – CAB & CHASSIS

The chassis shall be a new 2012 model year International Model 7400 SFA, 4x4 medium duty two (2) door cab and chassis with a seating capacity for 2 firefighters. This chassis is commercially available to all bidders on an equal basis and non-proprietary, therefore, no deviations shall be allowed to this requirement by the Purchaser. No exceptions shall be allowed to the chassis provisions listed below.

Bidder Complies as Written: Yes: _____ No: _____

Bidders shall provide with their bid proposal an International provided quotation from their respective International Dealer which will include the below listed provisions for ease of comparison and verification of compliance.

Bidder Complies as Written: Yes: _____ No: _____

CAB & CHASSIS PROVISIONS

Base Chassis, Model 7400 SFA 4X4.

TOW HOOK, FRONT (2) Frame Mounted.

FRAME RAILS Heat Treated Alloy Steel (120,000 PSI Yield); 10.250" x 3.610" x 0.375" (260.4mm x 91.7mm x 9.5mm); 456.0" (11582mm) Maximum OAL.

FRONT Steel, 15 Degree Swept Back, Chrome, with Headlight Provision.

BUMPER EXTENSION, FRONT 4.0".

FRAME ADDITION, FRONT 1" Integral; Increases BBC, BA and OAL Vehicle Dimensions By 1".

AXLE, FRONT DRIVING {Meritor MX-14-120} Single Reduction, 14,000-lb Capacity.

DRAIN PLUG, DRIVING FRONT AXLE Magnetic.

SUSPENSION, FRONT, SPRING Parabolic, Taper Leaf; 14,000-lb Capacity; With Shock Absorbers.

Includes

: SPRING PINS Rubber Bushings, Maintenance-Free.

BRAKE SYSTEM, AIR Dual System for Straight Truck Applications.

Includes

: BRAKE LINES Color and Size Coded Nylon.

: DRAIN VALVE Twist-Type.

: DUST SHIELDS, FRONT BRAKE.

: DUST SHIELDS, REAR BRAKE.

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

: 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 Bendix On Rear Axle for Spring Brake Release: 1 for 4x2.
: SLACK ADJUSTERS, FRONT Automatic.
: SLACK ADJUSTERS, REAR Automatic.
: SPRING BRAKE MODULATOR VALVE R-7 for 4x2.

DRAIN VALVE {Bendix DV-2} Automatic; With Heater; for Air Tank.

Includes

: DRAIN VALVE Mounted in Wet Tank.

BRAKE SHOES, REAR Cast.

AIR BRAKE ABS {Bendix AntiLock Brake System} Full Vehicle Wheel Control System (4-Channel) With Automatic Traction Control.

AIR DRYER {Bendix AD-IP} With Heater.

Includes

: AIR DRYER LOCATION Outside Left Rail, Back of Cab.

BRAKE CHAMBERS, FRONT AXLE {Haldex} 20 SqIn.

BRAKE CHAMBERS, REAR AXLE {Haldex GC3030LHDHO} 30/30 Spring Brake.

Includes

: BRAKE CHAMBERS, SPRING (2) Rear Parking

BRAKES, FRONT, AIR CAM S-Cam; 16.5" x 5.0"; Includes 20 Sq. In. Long Stroke Brake Chambers.

BRAKES, REAR, AIR CAM S-Cam; 16.5" x 7.0"; Includes 30/30 Sq.In. Long Stroke Brake Chamber and Spring Actuated Parking Brake.

AIR COMPRESSOR {Bendix Tu-Flo 550} 13.2 CFM Capacity.

STEERING COLUMN Tilting and Telescoping.

STEERING WHEEL 2-Spoke, 18" Diam., Black.

STEERING GEAR {Sheppard M-110} Power.

EXHAUST SYSTEM Single, Horizontal, After treatment Device Frame Mounted Left Side Under Cab; Includes Horizontal Tail Pipe, Provides Clean CA Above & Below Rail.

Includes

: NOTE: The Horizontal Tailpipe Includes a Temperature Control Device.

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

ENGINE EXHAUST BRAKE for MaxxFace I6 Engines, Electronically Activated.

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.

Includes

- : BATTERY BOX Steel with Plastic Lid.
- : DATA LINK CONNECTOR For Vehicle Programming and Diagnostics In Cab.
- : FUSES, ELECTRICAL SAE Blade-Type.
- : HAZARD SWITCH Push On/Push Off, Located on Top of Steering Column Cover.
- : HEADLIGHT DIMMER SWITCH Integral with Turn Signal Lever.
- : HEADLIGHTS (2) Sealed Beam, Round, with Chrome Plated Bezels.
- : HORN, ELECTRIC Single.
- : JUMP START STUD Located on Positive Terminal of Outermost Battery.
- : PARKING LIGHT Integral with Front Turn Signal and Rear Tail Light.
- : RUNNING LIGHT (2) Daytime, Included With Headlights.
- : 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.
- : TURN SIGNALS, FRONT Includes Reflectors and Auxiliary Side Turn Signals, Solid State Flashers; Flush Mounted.
- : 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.

IGNITION SWITCH Keyless.

ALTERNATOR {Leece-Neville 14931PAH} Brush Type, 12 Volt 320 Amp. Capacity, Pad Mounted.

BODY BUILDER WIRING Back of Standard Cab at Left Frame; Includes Sealed Connectors for Tail/Amber Turn/Marker/ Backup/ Accessory Power/Ground and Sealed Connector for Stop/Turn.

BATTERY SYSTEM {International} Maintenance-Free, (3) 12-Volt 1950CCA Total.

BACK-UP ALARM Electric, 102 dBA.

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

HORN, AIR Black, Single Trumpet, Air Solenoid Operated.

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

BATTERY DISCONNECT SWITCH {Joseph Pollak} for Cab Power Disconnect Switch; Lever Operated, Disconnects Power to PDC, Does Not Disconnect Charging Circuits, Cab Mounted.

HEADLIGHTS Long Life Halogen; for Two Light System.

TEST EXTERIOR LIGHTS Pre-Trip Inspection will Cycle all Exterior Lamps Except Backup 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.

INDICATOR, LOW COOLANT LEVEL With Audible Alarm.

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

CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III With Trip Indicators, Replaces All Fuses Except For 5-Amp Fuses.

FENDER EXTENSIONS Rubber.

GRILLE Stationary, Chrome.

GRILLE EMBER SCREEN Mounted to Grille to Keep Hot Embers out of Engine Air Intake System.

FRONT END Tilting, Fiberglass, With Three Piece Construction; for 2010 Emissions.

PAINT SCHEMATIC, PT-1 Single Color, Design 100.

Includes

: PAINT SCHEMATIC ID LETTERS "GM".

PAINT TYPE Base Coat/Clear Coat, 1 Tone.

PAINT CLASS Single Custom Color to be determined at Pre-Construction Conference.

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

KEYS - ALL ALIKE, ID Z-001.

OIL FILTER, ENGINE {Hudgins Model 960 Spinner}.

ENGINE, DIESEL {MaxxFace 9} EPA 10, 330 HP @ 2000 RPM, 950 lb-ft Torque @ 1200 RPM, 2200 RPM Governed Speed.

Includes

- : AIR COMPRESSOR AIR SUPPLY LINE Naturally-Aspirated.
- : ANTI-FREEZE Red Shell Rotella Extended Life Coolant; -40 Degrees F/ -40 Degrees C; for MaxxFace Engines.
- : COLD STARTING EQUIPMENT Intake Manifold Electric Grid Heater with Engine ECM Control.
- : CRUISE CONTROL Electronic; Controls Integral to Steering Wheel.
- : ENGINE OIL DRAIN PLUG Magnetic.
- : ENGINE SHUTDOWN Electric, Key Operated.
- : FUEL FILTER Included with Fuel/Water Separator.
- : FUEL/WATER SEPARATOR Fuel/Water Separator and Fuel Filter in a Single Assembly; With Water-in-Fuel Sensor; Engine Mounted.
- : GOVERNOR Electronic.
- : OIL FILTER, ENGINE Spin-On Type.
- : WET TYPE CYLINDER SLEEVES.

FAN DRIVE {Horton Drivemaster Polar Extreme} Direct Drive Type, Two Speed, With Residual Torque Device for Disengaged Fan Speed.

Includes

- : FAN Nylon

RADIATOR Aluminum, Front to Back Cross Flow, Series System; 1588 SqIn Core and 885 Sq In Charge Air Cooler and 470 Sq In Low Temperature Radiator Down Flow, Includes Transmission Oil Cooler

Includes.

- : DEAERATION SYSTEM with Surge Tank.
- : HOSE CLAMPS, RADIATOR HOSES Gates Shrink Band Type; Thermoplastic Coolant Hose Clamps.
- : RADIATOR HOSES Premium, Rubber.

FEDERAL EMISSIONS for 2010; MaxxFace 9 & 10 Engines.

AIR CLEANER Single Element.

Includes

- : GAUGE, AIR CLEANER RESTRICTION Air Cleaner Mounted.

THROTTLE, HAND CONTROL Engine Speed Control for PTO; Electronic, Stationary Pre-Set, Two Speed Settings; Mounted on Steering Wheel.

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

ENGINE CONTROL, REMOTE MOUNTED Provision for; Includes Wiring for Body Builder Installation of PTO Controls; With Ignition Switch Control for MaxxFace post 2007 Emissions Electronic Engines.

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

EMISSION COMPLIANCE Engine Shutdown System Exempt Vehicles, Complies With California Clean Air Regulations.

TRANSMISSION, AUTOMATIC {Allison 3000EVS_P} 4th Generation Controls; Close Ratio, 5-Speed; With Overdrive, Includes Oil Level Sensor, With Provision for PTO, Less Retarder.

Includes

: OIL FILTER, TRANSMISSION Mounted on Transmission.

: TRANSMISSION OIL PAN Magnet in Oil Pan.

TRANSFER CASE {Meritor T-4210 2} 2 Spd, 10000 lb-ft Total Capacity, With Provision for PTO, With Electric Over Air Control.

Includes

: LIGHT, INDIC, ALL-WHEEL DRIVE Illuminates With All Wheel Drive Engaged, Located on Instrument Panel.

TRANSMISSION SHIFT CONTROL {Allison} Push-Button Type; for Allison 3000 & 4000 Series Transmission.

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

OIL COOLER, TRANSFER CASE Remote Mounted Back of Cab.

TRANSMISSION OIL Synthetic; 29 thru 42 Pints.

ALLISON SPARE INPUT/OUTPUT for Emergency Vehicle Series (EVS), 127/198 Includes J1939 Based Auto Neutral; Fire/Pumper, Tank, Aerial/Ladder.

SHIFT CONTROL PARAMETERS Allison Performance Programming in Primary and Allison Economy Programming in Secondary.

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

Includes

: REAR AXLE DRAIN PLUG (1) Magnetic, For Single Rear Axle

SUSPENSION, RR, SPRING, SINGLE Vari-Rate; 31,000-lb Capacity, With 4500 lb Auxiliary Rubber Spring.

FUEL TANK STRAPS Bright Finish Stainless Steel.

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

FUEL TANK Top Draw; D Style, Non Polished Aluminum, 19" Deep, 50 U.S. Gal., Beveled Back of Tank, With Quick Connect Outlet, Mounted Left Side, Under Cab.

CAB Conventional

Includes

- : ARM REST (2) Molded Plastic; One Each Door.
- : CLEARANCE/MARKER LIGHTS (5) Flush Mounted.
- : COAT HOOK, CAB Located on Rear Wall, Centered Above Rear Window.
- : CUP HOLDERS Two Cup Holders, Located in Lower Center of Instrument Panel.
- : DOME LIGHT, CAB Rectangular, Door Activated and Push On-Off at Light Lens, Timed Theater Dimming, Integral to Console, Center Mounted.
- : GLASS, ALL WINDOWS Tinted.
- : GRAB HANDLE, CAB INTERIOR (1) "A" Pillar Mounted, Passenger Side.
- : GRAB HANDLE, CAB INTERIOR (2) Front of "B" Pillar Mounted, One Each Side.
- : INTERIOR SHEET METAL Upper Door (Above Window Ledge) Painted Exterior Color.
- : STEP (4) Two Steps Per Door.

GAUGE CLUSTER English With English Electronic Speedometer.

Includes

- : GAUGE CLUSTER (6) Engine Oil Pressure (Electronic), Water Temperature (Electronic), Fuel (Electronic), Tachometer (Electronic), Voltmeter, Washer Fluid Level.
- : ODOMETER DISPLAY, Miles, Trip Miles, Engine Hours, Trip Hours, Fault Code Readout.
- : WARNING SYSTEM Low Fuel, Low Oil Pressure, High Engine Coolant Temp, and Low Battery Voltage (Visual and Audible).

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 1 to 3 Seat Belts.

GAUGE, OIL TEMP, ALLISON TRAN.

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 {National 2000} NFPA Compliant, Air Suspension, High Back With Integral Headrest, Vinyl, Isolator, 1 Chamber Lumbar, 2 Position Front Cushion Adjust, -3 to +14Degree Back Angle Adjust.

Includes

- : SEAT BELT 3-Point, Lap and Shoulder Belt Type

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

SEAT, PASSENGER {Gra-Mag} Non Suspension, High Back, Fixed Back, Integral Headrest, Vinyl

Includes.

: SEAT BELT 3-Point, Lap and Shoulder Belt Type

GRAB HANDLE (2) Chrome Towel Bar Type With Anti-Slip Rubber Inserts; for Cab Entry, Mounted Left and Right, Each Side at "B" Pillar.

MIRRORS (2) {Lang Mekra} Styled; Rectangular, 7.09" x 15.75" & Integral Convex Both Sides, 102" Inside Spacing, Breakaway Type, Heated Heads Thermostatically Controlled, Power Both Sides, Clearance Lights LED, Bright Finish Heads & Brackets.

SEAT BELT All Red; 1 to 3.

CAB MOUNTING HEIGHT EFFECTS High Cab in Lieu of Mid High Cab Mounting (Approx. 4.5").

AIR CONDITIONER {Blend-Air} With Integral Heater & Defroster.

Includes

: HEATER HOSES Premium.

: HOSE CLAMPS, HEATER HOSE Mubea Constant Tension Clamps.

: REFRIGERANT Hydrofluorocarbon HFC-134A.

INSTRUMENT PANEL Center Section, Flat Panel.

HVAC FRESH AIR FILTER.

STORAGE POCKET, DOOR Molded Plastic, Full Width; Mounted on Passenger Door.

CAB INTERIOR TRIM Deluxe.

Includes

: "A" PILLAR COVER Molded Plastic.

: CAB INTERIOR TRIM PANELS Cloth Covered Molded Plastic, Full Height; All Exposed Interior Sheet Metal is Covered.

: CONSOLE, OVERHEAD Molded Plastic; With Dual Storage Pockets with Retainer Nets and CB Radio Pocket.

: DOOR TRIM PANELS Molded Plastic; Driver and Passenger Doors

: FLOOR COVERING Rubber, Black

: HEADLINER Soft Padded Cloth

: INSTRUMENT PANEL TRIM Molded Plastic with Black Center Section

: STORAGE POCKET, DOOR (1) Molded Plastic, Full-Length; Driver Door

: SUN VISOR (2) Padded Vinyl with Driver Side Toll Ticket Strap, Integral to Console

CAB REAR SUSPENSION Air Bag Type.

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

SUNSHADE, EXTERIOR Aerodynamic, Painted Roof Color; Includes Integral Clearance/Marker Lights.

WHEELS, FRONT DISC; 22.5" Polished Aluminum, 10-Stud (285.75MM BC) Hub Piloted, Flanged Nut, Metric Mount, 8.25 DC Rims; With Steel Hubs.

WHEELS, REAR DUAL DISC; 22.5" Polished Aluminum, 10-Stud (285.75MM BC) Hub Piloted, Flanged Nut, Metric Mount, 8.25 DC Rims; With Steel Hubs.
: Polished Surface Outside Dual Only

WHEEL GUARDS, FRONT {Accuride} for Metric Hub Piloted Wheels with Flanged Mounting Nuts Mounted Between Hub and Wheel.

(2) TIRE, FRONT 12R22.5 G622 RSD (GOODYEAR) 482 rev/mile, load range H, 16 ply.

(4) TIRE, REAR 12R22.5 G622 RSD (GOODYEAR) 482 rev/mile, load range H, 16 ply

Provide and Install a Meritor PTO on the transfer case. Parts included are the PTO, Yoke and Pressure Regulator.

Bidder Complies as Written: Yes: _____ No: _____

CHASSIS WHEELBASE

The bidder shall state the proposed wheelbase: _____

The bidder shall state the the proposed turning radius and curb clearance:

Turning Radius: _____

Curb Clearance: _____

Bidder Complies as Written: Yes: _____ No: _____

DRIVE LINE MODIFICATION

The chassis drive line shall be modified from OEM Status to accommodate any changes required by the OEM for wheelbase, pump installation, or otherwise.

Bidder Complies as Written: Yes: _____ No: _____

ELECTRICAL CONTROL CENTER CONSOLE

The rocker switch panel shall be mounted on a custom fabricated electrical control center console mounted below the dash between the driver and officer. Other components such as open door warning light, pump shift controls, siren head controller, etc may be mounted on the console as well (depending on space required). If space isn't available on the console, the remaining controls shall be mounted on the cab dash immediately above the console for access by both the driver and officer.

Bidder Complies as Written: Yes: _____ No: _____

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

The electrical control center console shall be fabricated of 1/8" smooth aluminum. A 90 degree vertical lip shall be provided around the top perimeter of the console.

Bidder Complies as Written: Yes: _____ No: _____

The console shall house a majority of the electrical hardware required to serve chassis electrical functions. For ease of service, the hardware shall be accessed by a removable panel on the top of the console. The 1/8" aluminum cover shall be securely fastened and easily removed by a series of threaded fasteners.

Bidder Complies as Written: Yes: _____ No: _____

The exterior surface shall be applied with gray Speedliner to increase durability and provide a pleasing appearance.

Bidder Complies as Written: Yes: _____ No: _____

BATTERY SWITCH - LEVER STYLE

There shall be a Cole Hersee #9500 battery disconnect switch installed to activate the battery system. There shall be a green "battery on" pilot light located adjacent to the switch and visible from the driver's position.

Bidder Complies as Written: Yes: _____ No: _____

HIGH IDLE SWITCH

There shall be a high idle switch provided. The switch shall be a momentary switch that when pressed shall increase the engine RPM to a preset amount and when pressed again shall return the engine to idle.

Bidder Complies as Written: Yes: _____ No: _____

BACK UP ALARM

An electronic backup alarm shall be furnished and installed. It shall be 97 decibels and actuate automatically when transmission gear selector is placed in reverse.

Bidder Complies as Written: Yes: _____ No: _____

HAZARD LIGHT IN CAB

There shall be a Weldon Red LED "Door Open" indicator light mounted in the cab. The light shall be mounted to the cab dash between the driver and officer (if possible) and shall activate when the parking brake is released and a compartment door or any additional specified devices are not closed or nested completely. There shall be a placard stating "Do Not Move Apparatus When Light Is On."

Bidder Complies as Written: Yes: _____ No: _____

CAB EXTINGUISHER

There shall be one (1) 2.5 lb Amerex ABC Extinguisher provided and installed in the chassis cab.

Bidder Complies as Written: Yes: _____ No: _____

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

AIR SHORELINE

There shall be a 1/4" air shoreline installed on the apparatus, connected to chassis air tanks, to maintain brake pressure. The inlet shall be located below the driver's door area.

Bidder Complies as Written: Yes: _____ No: _____

SIREN

One (1) Whelen electronic siren, model # 295SLSA1 shall be furnished and installed. It shall be 100 watts and feature wail, yelp, phaser, air horn and manual wail. The microphone shall have noise canceling circuitry and Public Address override. The siren and hard wired microphone shall be installed with-in reach of the driver and officer.

Bidder Complies as Written: Yes: _____ No: _____

SIREN SPEAKER

There shall be a Whelen model #SA315P 100 watt siren speaker installed.

Bidder Complies as Written: Yes: _____ No: _____

A total quantity of one (1) shall be provided, installed in the front bumper on the left side.

Bidder Complies as Written: Yes: _____ No: _____

AIR HORNS

There shall be two (2) chrome plated air horns furnished and installed on the vehicle. They shall be manufactured by Grover and be the Stuttertone model # 1510.

Bidder Complies as Written: Yes: _____ No: _____

The air horn(s) shall be installed on the chassis hood.

Bidder Complies as Written: Yes: _____ No: _____

The siren shall be actuated by either foot switch, one mounted on the driver's side and one mounted on the passenger's side of the chassis cab.

Bidder Complies as Written: Yes: _____ No: _____

PRESSURE PROTECTION VALVE

There shall be a pressure protection valve to prevent the use of air horns or other air operated accessories when the system air pressure drops below 80psi.

Bidder Complies as Written: Yes: _____ No: _____

TIRE PRESSURE MONITORING SYSTEM

There shall be a RealWheels (6) wheel stabilizer kit w/2"extensions and LED indicators (Model RWTG1234-62) provided with the apparatus. The tire pressure monitoring system shall indicate if there is improper air pressure in the tire.

Bidder Complies as Written: Yes: _____ No: _____

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

The inner tire on the rear dual axle shall have an extension provided that will pass through the outside rim and attach to the stabilizer providing an unobstructed view for inspection of the inner tire air pressure.

Bidder Complies as Written: Yes: _____ No: _____

The tire pressure indicators shall be provided directly from RealWheels Corporation upon completion and submission of the enclosed [Voucher] document.

Bidder Complies as Written: Yes: _____ No: _____

The indicators shall be installed by the department after the unit has been fully equipped and the tires set to the manufactures recommended pressure rating. The indicators will calibrate to that initial air pressure setting upon installation and will intermittently flash when the tire pressure is reduced by 10% from its original calibrated pressure.

Bidder Complies as Written: Yes: _____ No: _____

RETROFLECTIVE STRIPPING

Retroflective stripping shall be added to the inside of the cab doors in accordance to NFPA regulations.

Bidder Complies as Written: Yes: _____ No: _____

VEHICLE DATA RECORDER (VDR)

A Weldon, Model number 6444-0000-00, Vehicle Data Recorder which collects and stores essential vehicle data shall be provided. Reviewing the information is made easy with an intuitive computer application.

Bidder Complies as Written: Yes: _____ No: _____

The following features shall be included:

Recorded Data Includes:

Vehicle Speed, Acceleration, Deceleration, Engine Speed, Engine Throttle Position, ABS Event, Seat Occupied Status, Seat Belt Status, Master Optical Warning Switch, Park Brake, Service Brake, Time, Date and Engine Hours. Password Protected by the Purchaser, Six (6) seat position inputs for occupied and belts buckled.

Additional six (6) seat expansion module available (p/n 6020-0000-00)

Easily interfaces with traditional wiring, V-MUX™ or other multiplexing systems

Data is extracted by a standard, mini USB cable

Use in conjunction with the Occupant Restraint Indicator or V-MUX™ multiplex system

Bidder Complies as Written: Yes: _____ No: _____

OCCUPANT RESTRAINT INDICATOR

An Occupant Restraint Indicator, model number 6204-0000-00 shall be provided.

Designed to alert driver and officer, this module will indicate where restraints of occupied seats are properly fastened keeping personnel safe.

Bidder Complies as Written: Yes: _____ No: _____

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

The following features shall be included:

- Low profile, compact size
- Supports commercial and custom cab seating layouts; up to 12 seats
- Dimming feature adjusts indicator intensity to synchronize with dash lights
- Built-in audible alarm
- Standard 4 year warranty

Bidder Complies as Written: Yes: _____ No: _____

FIRECOM 110 INTERCOM SYSTEM

The Bidder shall provide and install Firecom 1 person wireless system as follows:

- One (1) #106-0270-10 110 Base System
- One (1) #MR Radio Interface
- One (1) #107-3095-00 Combo Pack, FHW-10 and Single Channel Base.
- One (1) #520-0676-00 Headset Hanger.

Bidder Complies as Written: Yes: _____ No: _____

VEHICLE STABILITY (CG) CALULATION OR MEASUREMENT CERTIFICATION

Vehicle stability or roll stability shall be presented by methods of calculations or measurements per NFPA 1901 – current edition. The calculated or measured center of gravity (CG) shall be no higher than 80 percent of the rear axle track width.

Bidder Complies as Written: Yes: _____ No: _____

The OEM shall utilize supplied documents and information detailing specific equipment and locations for purposes of calculating CG. If no such information is supplied the OEM shall estimate approximate equipment loads based upon the vehicle configuration for such calculations in correspondence with NFPA 1901 required loadings.

Bidder Complies as Written: Yes: _____ No: _____

Upon acceptance of the vehicle, a signed OEM written certification shall be supplied with the fire apparatus before delivery.

Bidder Complies as Written: Yes: _____ No: _____

HELMET HOLDERS

Two (2) Ziamatic UHH-1 Universal Helmet Holders will be provided and installed in a “Best Fit” location determined by OEM.

Bidder Complies as Written: Yes: _____ No: _____

HORIZONTAL EXHAUST

The chassis shall have a horizontal exhaust system piped to the side of the apparatus body just ahead of the rear wheels.

Bidder Complies as Written: Yes: _____ No: _____

WHEEL TRIM

There shall be chrome plated lug nut covers and hub caps furnished and installed on the front and

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

rear wheels. There will also be a chrome Baby Moon hub cover for the rear wheels.

Bidder Complies as Written: Yes: _____ No: _____

HEAT EXCHANGER

The supplementary heat exchanger cooling system furnished with the chassis shall be complete to the discharge side of the fire pump through the engine compartment, without intermixing, for absorption of excess heat. The heat exchanger shall be adequate in size to maintain the temperature of the coolant in the pump drive engine not in excess of the engine manufacturer's temperature rating under all pumping conditions. Appropriate drains shall be provided to allow draining the heat exchanger to prevent damage from freezing. A manual 1/4 turn 1/4" shut-off valve with a rectangular handle shall be supplied at the pump operator's position and labeled "HEAT EXCHANGER".

Bidder Complies as Written: Yes: _____ No: _____

SCBA COMPARTMENTS

There shall be four (4) compartments located on the body, one (1) ahead and one (1) behind the wheel well, both sides. The compartments shall hold 6.75" diameter x 26.5" long SCBA bottles. Cast aluminum doors shall be provided for all compartments.

Bidder Complies as Written: Yes: _____ No: _____

PERIMETER LIGHTS

There shall be two (2) perimeter lights furnished and installed under the cab steps, one each side, to illuminate the ground around the truck. They shall be manufactured by Trucklite and be model # 40003

Bidder Complies as Written: Yes: _____ No: _____

BATTERY CHARGER

A battery charger conditioner shall be furnished and installed. It shall have a 15 amp output to the batteries with several "battery saver" outputs, allowing up to 3 amps of 12 volt rechargeable items to be wired through the charger, only allowing charging when the shoreline is plugged in. There shall be a bar graph display, to indicate battery condition, mounted near the shoreline. The charger shall be a Kussmaul Electronics model Auto Charge 1000.

Bidder Complies as Written: Yes: _____ No: _____

SHORELINE w/ AUTO EJECT

There shall be a Kussmaul "Super Auto-Eject" 120 volt, 20 amp shoreline receptacle furnished and installed. The electrical current shall be interrupted when the ignition switch is activated and before the plug is automatically ejected to prevent arcing. The plug for the receptacle shall be shipped loose to be installed on the shoreline cord.

Bidder Complies as Written: Yes: _____ No: _____

The receptacle shall be located below the driver's door step area.

Bidder Complies as Written: Yes: _____ No: _____

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

CHASSIS REQUIRED LABELING

Signs that state "Occupants must be seated and belted when apparatus is in motion" shall be provided. They shall be visible from each seating position.

Bidder Complies as Written: Yes: _____ No: _____

There shall be a lubrication plate mounted inside cab listing the type and grade of lubrication used in the following areas on the apparatus and chassis:

- Engine oil
- Engine Coolant
- Transmission Fluid
- Pump Transmission Lubrication Fluid
- Drive Axle Lubrication Fluid
- Generator Lubrication Fluid (if applicable)
- Tire Pressures

Bidder Complies as Written: Yes: _____ No: _____

APPARATUS INFORMATION LABEL

There shall be a high-visibility label installed in a location clearly detectable to the driver while in the seated position. The label shall indicate the following specified information.

Overall Height, in feet and inches.

Overall Length, in feet and inches.

Overall GVWR, in tons or metric tons.

Bidder Complies as Written: Yes: _____ No: _____

CAB HELMET WARNING LABEL

There shall be a high-visibility label installed in a location clearly detectable from each seating position. The label shall indicate the following specified information.

“DO NOT WEAR HELMET WHILE SEATED”

Bidder Complies as Written: Yes: _____ No: _____

MUD FLAPS

Heavy-duty rubber mud flaps shall be provided behind all wheels. The mud flaps shall be black rubber type and be bolted in place.

Bidder Complies as Written: Yes: _____ No: _____

TOP PANEL MODULE

A pump operator's top control pump module shall be provided. It shall be assembled and mounted independently from both the chassis and the body to allow sufficient flexing and prevent component fatigue. A top operator's control surface, the width of the module and at an approximate 45 degree upward slope, shall be provided at the front of the module.

Bidder Complies as Written: Yes: _____ No: _____

The module shall be constructed using aluminum square tubing. The welded ends of the tubing shall be chamfered prior to welding and shall be ground smooth.

Bidder Complies as Written: Yes: _____ No: _____

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

FRONT ACCESS

There shall be a removable aluminum treadplate panel across the front of the module, below the operator's area. The panel shall be held in place along a bottom slotted area and latches near the top.

Bidder Complies as Written: Yes: _____ No: _____

WALKWAY

An aluminum treadplate walkway shall be provided at the front of the top operator's module and shall be approximately 22" deep. The walkway shall be transverse, with access from either side of shall the apparatus.

Bidder Complies as Written: Yes: _____ No: _____

Aluminum treadplate steps and spacing shall be compliant with NFPA 1901 recommendations, current at the time of proposal. Treadplate steps shall be provided on either side of the walkway for access to the top of the walkway.

Bidder Complies as Written: Yes: _____ No: _____

GRAB RAILS

Two (2) compliant grab rails shall be provided, one each side of the module, for access onto the walkway area.

Bidder Complies as Written: Yes: _____ No: _____

SIDE PANELS

The pump compartment top console module shall have left and right side pump panels installed. The panels shall be constructed of black vinyl clad aluminum sheets. The side pump panels shall be removable.

Bidder Complies as Written: Yes: _____ No: _____

ACCESS PANELS - BLACK VINYL

There shall be hinged upper access panels provided above the main pump panel, one each side of the pump module. Each shall be black vinyl clad aluminum. Each shall be vertically hinged and shall have two latches.

Bidder Complies as Written: Yes: _____ No: _____

PUMP PANEL LIGHT SHIELD – TOP

One (1) bright aluminum treadplate light shield assembly shall be provided along the full width of the top mount operator's panel. There shall be a 42" long strip light assembly installed under the shield, containing a minimum of four (4) halogen bulbs within the light strip. A separate switch on the operator's panel shall be provided to activate the lights.

Bidder Complies as Written: Yes: _____ No: _____

PUMP COMPARTMENT LIGHTS

Two (2) 5" round dome style lights shall be provided inside the pump compartment area. Each shall be switched on the light itself. The lights shall have a minimum 20 candlepower.

Bidder Complies as Written: Yes: _____ No: _____

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

TOOL COMPARTMENTS

One (1) tool compartment(s) shall be provided on each side of the area below the walkway. Each compartment shall be furnished with a bright aluminum treadplate door, two (2) push button latches, and a light in each compartment.

Bidder Complies as Written: Yes: _____ No: _____

TOP OPERATED PUMP CONTROL PANEL (STRAIGHT)

The pump operator's control panel shall be a top console operated panel, with the operator facing the rear of the apparatus when using the controls. The control surface shall be straight across the width of the module.

Bidder Complies as Written: Yes: _____ No: _____

PANELS

The operator's control panel shall be recessed. It shall be the width of the pump module and only as deep as the controls and gauges deem necessary.

Bidder Complies as Written: Yes: _____ No: _____

GAUGES AND CONTROLS

All valve controls shall be in one line and have chrome levers using positive direct linkages to the valves (unless electrically controlled valves are specified or required). All valves shall be self locking type. Discharge gauges shall be located directly above the respective lever control for ease of identification. All gauges shall be functionally grouped to allow easy identification.

Bidder Complies as Written: Yes: _____ No: _____

TOP OPERATORS PANELS

The top pump operator's control and gauge panels shall be constructed of removable black vinyl clad aluminum sheet.

Bidder Complies as Written: Yes: _____ No: _____

REAR OF CAB TREADPLATE

There shall be an 1/8" aluminum treadplate scuff-plate overlay, 36.00" high x 76.00" long, installed on the back exterior portion of the chassis cab.

Bidder Complies as Written: Yes: _____ No: _____

TORSION PUMP MODULE MOUNTING SYSTEM

The entire pump module assembly shall be mounted so that it "floats" above the chassis frame rails with vibration isolators. The body substructure shall be mounted above the frame to allow independent flexing to occur between the body and the chassis.

Bidder Complies as Written: Yes: _____ No: _____

Each assembly shall be mounted to the chassis frame rails with steel, gusseted mounting brackets. Each body mount bracket shall be mounted to the side chassis frame flange.

Bidder Complies as Written: Yes: _____ No: _____

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

There shall be no welding to the chassis frame rail sides, web or flanges, or drilling of holes in the top or bottom frame flanges between axles. All body to chassis connections shall be bolted so that in the event of an accident, the body shall be easily removable from the truck chassis for repair or replacement.

Bidder Complies as Written: Yes: _____ No: _____

Because of the constant vibration and twisting action that occurs in chassis frame rails and suspension, the torsion mounting system is required to minimize the possibility of premature body structural failures. NO EXCEPTIONS.

Bidder Complies as Written: Yes: _____ No: _____

SINGLE STAGE FIRE PUMP-DARLEY 1500 GPM

The pump shall be a Darley PSM single stage fire pump, capable of up to a 1500 gpm rating.

Bidder Complies as Written: Yes: _____ No: _____

The pump casing shall be a fine grain cast iron alloy, vertically split, with a minimum 40,000 psi tensile strength and bronze fitted.

Bidder Complies as Written: Yes: _____ No: _____

The 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 as well as cooling the vehicle chassis engine.

Bidder Complies as Written: Yes: _____ No: _____

The impeller shall be a high strength bronze alloy of a radial flow design for high suction lift capacity, accurately balanced and splined to the pump shaft for precision fit and durability.

Bidder Complies as Written: Yes: _____ No: _____

The pump shaft shall be precision ground stainless steel with long wearing, very hard, chrome oxide coating. The shaft shall be splined to receive broached impeller hubs, for greater resistance to wear, torsional vibration, and torque imposed by engine. Shaft seal comes standard with face-type, self-adjusting corrosion- and wear-resistant mechanical seals.

Bidder Complies as Written: Yes: _____ No: _____

The bearings provided shall be heavy duty, deep groove, radial type ball bearings. They shall be oversized for extended life. The bearings shall be protected at all openings from road dirt and water splash with oil seals and water slingers.

Bidder Complies as Written: Yes: _____ No: _____

The transmission case shall be heavy duty cast iron alloy with adequate oil reserve capacity for low operating temperatures. A magnetic drain plug shall be provided. Transmission case shall include a dip stick for checking oil level. The transmission shall be cooled with patented "AutoCool" cooler plate. Due to potential damage from freezing, designs which send water into the transmission are prohibited.

Bidder Complies as Written: Yes: _____ No: _____

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

The pump drive shaft shall be precision ground, heat treated alloy steel, with a minimum 2-1/2" x 10" spline ends. Gears shall be helical design, and shall be precision cut for quiet operation and extended life. The gears shall be cut from high strength alloy steel, heat treated, precision ground and carburized.

Bidder Complies as Written: Yes: _____ No: _____

The gear shift shall be a heat treated alloy steel splined spur gear to engage either the pump drive gear or the truck drive shaft gear. The gear teeth shall be bullet nosed to minimize potential for a butt-tooth condition. The gear ratio of the pump shall be selected by the pump and apparatus manufacturer's Engineering Department.

Bidder Complies as Written: Yes: _____ No: _____

Due to the advantages of the above gear and drive feature, chain drive and designs requiring additional lubrication are not acceptable.

Bidder Complies as Written: Yes: _____ No: _____

A discharge manifold, as supplied as part of the pump by the pump manufacturer, shall include a discharge head check valve assembly to allow priming of the pump from draft with discharges open and caps off, and to prime faster than designs that require the air to be evacuated from the discharge manifold.

Bidder Complies as Written: Yes: _____ No: _____

Discharge outlets shall have extensions with companion flange openings to allow ease of service.

Bidder Complies as Written: Yes: _____ No: _____

The pump priming system, heat exchanger system, discharge and suction valves, relief valves, pump shift, and master drain shall be as detailed elsewhere in these specifications.

Bidder Complies as Written: Yes: _____ No: _____

Two (2) manuals covering the fire pump, pump transmission and selected options of the fire pump shall be provided with the apparatus.

Bidder Complies as Written: Yes: _____ No: _____

UL PUMP CERTIFICATION

The fire pump shall be UL tested to meet the flow requirements of the pump installed on the apparatus. A written certification shall be provided with the completed vehicle.

Bidder Complies as Written: Yes: _____ No: _____

DARLEY PUMP WARRANTY

W. S. Darley & Co. shall provide a limited manufacture's warranty to be free from defects in materials and workmanship, under normal use and service, for a period of six (6) years from the date placed into service, (6 1/2) years from the date of manufacture or 6000 hours of usage {unless otherwise specified} whichever comes first.

Bidder Complies as Written: Yes: _____ No: _____

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

PUMP SHIFT

The drive unit shall be provided with an air pump shift system. The control valve shall be a spring loaded guard lever that locks in "Road" or "Pump" mode.

Bidder Complies as Written: Yes: _____ No: _____

CONTROL XT PRESSURE GOVERNOR AND MONITORING DISPLAY

Fire Research Control XT pressure governor and monitoring display kit shall be installed. The kit shall include a control panel, pump intake pressure sensor, pump discharge pressure sensor, water tank pressure sensor, buzzer, and cables. The control panel case shall be waterproof and have dimensions not to exceed 9" high by 15" wide by 3 3/4" deep.

Bidder Complies as Written: Yes: _____ No: _____

The engine throttle control knob shall be 2" in diameter with a serrated grip, have a red idle push button in the center, and no mechanical stops. Inputs for engine information shall be from a J1939 data bus.

Bidder Complies as Written: Yes: _____ No: _____

The engine RPM shall be set to idle when the pump engaged interlock signal is recognized regardless of the throttle control knob position. Optical technology shall be used to detect the direction and speed that the control knob is rotated for RPM control.

Bidder Complies as Written: Yes: _____ No: _____

The following continuous displays shall be provided:

- Pump Intake; shown with four daylight bright LED digits more than 1/2" high
- Pump Discharge; shown with four daylight bright LED digits more than 1/2" high
- Engine RPM; shown with four daylight bright LED digits more than 1/2" high
- Engine Coolant Temperature; shown on an LED bar graph display
- Engine Oil Pressure; shown on an LED bar graph display
- Battery Voltage; shown on an LED bar graph display
- Transmission Temperature; shown on an LED bar graph display
- Water Tank Volume; shown on a super bright LED display
- Foam Tank Volume; shown on a super bright LED display
- Message Display; two line dot-matrix
- Clock Display with AM and PM LEDs

Bidder Complies as Written: Yes: _____ No: _____

The LED indicators shall be provided:

- Check and Stop Engine
- Control Mode; PSI and RPM
- Throttle Ready
- Pump Overheat

Bidder Complies as Written: Yes: _____ No: _____

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

The following auxiliary controls shall be provided on the panel:

Pump Panel Light Switch
Pump Push to Prime Button

Bidder Complies as Written: Yes: _____ No: _____

Inputs to the control panel from the pump intake and pump discharge pressure sensors shall be electrical. The intake pressure display shall show pressures from -30 in. Hg to 600 psi. The discharge pressure display shall show pressures from 0 to 600 psi.

Bidder Complies as Written: Yes: _____ No: _____

The water tank indicator shall show the volume of water in the tank on nine (9) easy to see super bright LEDs. A wide view lens over the LEDs shall provide for a viewing angle of 180 degrees. Low water warnings shall include flashing LEDs at 1/4 tank, down chasing LEDs when the tank is almost empty and an audio alarm. The indicator shall receive an input signal from an electronic pressure sensor. The sensor shall be mounted from the outside of the water tank near the bottom. No probe shall place on the interior of the tank. Wiring shall be weather resistant and have automotive type plug-in connectors.

Bidder Complies as Written: Yes: _____ No: _____

A 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.

Bidder Complies as Written: Yes: _____ No: _____

There shall be two control modes, pressure and RPM. No discharge pressure or engine RPM variation shall occur when switching between pressure and RPM modes. When the pump engaged interlock signal is recognized a THROTTLE READY LED will light to indicate throttle ready and the governor shall be in pressure mode with the engine RPM set 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.

Bidder Complies as Written: Yes: _____ No: _____

The program features shall be accessed via push buttons located on the front of the control panel. It shall allow for the display of detailed information of monitored parameters including accumulated pump and engine hours. The program shall store fault codes with a date and time stamp, control calibration and self-diagnostic capabilities, and be updatable via a USB port. Safety features shall include recognition of no water conditions with an automatic programmed response and a push button to return the engine to idle.

Bidder Complies as Written: Yes: _____ No: _____

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The program shall monitor inputs and support audible and visual warning alarms for the following conditions:

- High
- Low
- High Transmission Temperature
- Low Oil Pressure
- High Engine Coolant Temperature
- Out of Water
- Engine Not Responding
- Pump Overheat

Bidder Complies as Written: Yes: _____ No: _____

AIR PRIMER

The priming pump shall be compressed air powered, high efficiency, multi-stage, venture based Air Prime System. All wetted metallic parts of the priming system are to be of brass and stainless steel construction.

Bidder Complies as Written: Yes: _____ No: _____

A single panel mounted control, located on the Control XT panel will activate the priming pump and open the priming valve to the pump. The system shall employ an 80 psi pressure protection valve to prevent loss of air brakes to the chassis.

Bidder Complies as Written: Yes: _____ No: _____

The primer shall not require a lubrication tank or any lubrication including water. The priming pump shall be constructed of heat treated aluminum and hard coat anodized.

Bidder Complies as Written: Yes: _____ No: _____

6.0" SIDE INLETS

One (1) 6.0 suction steamer inlet with male NH threads shall be provided on the left and right side pump panel. The inlet shall have a removable screen. The inlet shall have a polished chrome cap, engraved with the pump manufacturer's logo and name. The logo and name shall be painted with high quality urethane paint.

Bidder Complies as Written: Yes: _____ No: _____

INTAKE RELIEF VALVE

One (1) NFPA compliant intake relief valve shall be provided and installed on the suction side of the pump and adjustable from 50-250 psi. The valve shall be factory preset at approximately 125 psi. The system does not include an on/off control.

Bidder Complies as Written: Yes: _____ No: _____

U.L. TEST PORTS

One (1) set of U.L. testing ports with plugs shall be provided on the pump panel for testing of the vacuum and pump pressures.

Bidder Complies as Written: Yes: _____ No: _____

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

BEZELS FOR DISCHARGE GAUGES

Deluxe metal bezels shall be supplied around the discharge pressure gauges.

Bidder Complies as Written: Yes: _____ No: _____

COLOR CODED LABELS

A set of color coded and function described labels shall be provided on the apparatus for the pump operator's controls, gated inlets, discharge outlets, drains, and pressure gauges (as applicable). The labels shall be a high quality plastic material with a durable adhesive on the back.

Bidder Complies as Written: Yes: _____ No: _____

PLUMBING SYSTEM

The plumbing system shall consist of hard piping, or flexible high pressure hose with stainless steel ends, as deemed necessary for the application. Upon completion, the entire system shall be fully pressure tested.

Bidder Complies as Written: Yes: _____ No: _____

The tank to pump plumbing and valve arrangement shall be capable of delivering water to the pump at a minimum flow rate of 500 GPM while pumping at 150 psi pressure.

Bidder Complies as Written: Yes: _____ No: _____

Each gated intake shall be equipped with a 3/4 inch bleeder valve located in close proximity to the intake. All intakes shall be provided with suitable closers (valves or caps) capable of withstanding 500 PSI.

Bidder Complies as Written: Yes: _____ No: _____

When any 3" or larger intake or discharge is gated (except tank to pump valve), the valve shall have a mechanism to allow the valve to fully open or fully close no faster than 3 seconds.

Bidder Complies as Written: Yes: _____ No: _____

Any 2-1/2" or larger discharge outlet, mounted 42" or higher from ground, which hose is to be connected, and which is not in a hose storage area, shall be supplied with a swiveling sweep elbow of at least 30 degrees.

Bidder Complies as Written: Yes: _____ No: _____

All 2-1/2" and larger intakes and discharges shall be equipped with drains. All drain valves shall be operational without the operator having to get under the apparatus. All discharges and intakes shall terminate with NST threads, chrome caps and chains, unless detailed otherwise in these specifications.

Bidder Complies as Written: Yes: _____ No: _____

Valves shall be a quarter turn ball type, self locking, fixed pivot design and shall be operated from the pump operator's panel. The valve shall be Darley bronze valve with a high polished stainless steel ball.

Bidder Complies as Written: Yes: _____ No: _____

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

2.0" ELECTRIC TANK FILL (ELECTRIC)

One (1) electrically controlled 2.0" pump to tank fill shall be provided with a 2.0" inline bronze valve. The valve shall be electrically controlled. An electric toggle control, function label, and open/closed indicator lights shall be located on the pump operator's panel.

Bidder Complies as Written: Yes: _____ No: _____

TANK TO PUMP LINE (ELECTRIC)

One (1) tank to pump line shall be provided for connection between the water tank and the fire pump. The valve shall be a 3.0" bronze, quarter turn ball type. The valve shall be controlled from the pump operator panel using an open/closed, two position toggle switch with a red indicator light for the closed position, and a green indicator light for open. The toggle switch shall activate an electric over air solenoid, which actuates an air cylinder changing the position of the valve. The piping shall consist of a 3.0" stainless steel sweep elbow from the pump to the valve and a 4.0" stainless steel sweep elbow from the valve to the water tank.

Bidder Complies as Written: Yes: _____ No: _____

TANK TO PUMP CHECK VALVE

The Darley fire pump suction inlet manifold shall be provided with an integral tank to pump check valve. The check valve shall be designed to automatically open when drafting from an onboard water tank, and close if the pump suction receives water pressure from an outside source.

Bidder Complies as Written: Yes: _____ No: _____

PUMP COOLING LINE

There shall be a 3/8" line run from the pump to the water tank to assist in keeping the pump water from overheating. There shall be a 1/4 turn on/off valve installed on the operator's panel.

Bidder Complies as Written: Yes: _____ No: _____

2.5" LEFT SIDE AUXILIARY

One (1) 2.5"(6.4cm) auxiliary intake shall be located on the LH side panel. The valve shall be manually controlled and properly labeled for direct valve operation through the side panel with a swing-out type control.

Bidder Complies as Written: Yes: _____ No: _____

The valve shall be a quarter turn ball type constructed of an all brass body and either a chrome plated brass or stainless steel ball. The auxiliary intake shall be equipped with a quarter-turn, 3/4" drain valve.

Bidder Complies as Written: Yes: _____ No: _____

The 2.5" inlet shall be equipped with an integrated brass straight adapter terminating in 2.5" FNST swivel threads. One (1) chrome plug and chain shall also be supplied.

Bidder Complies as Written: Yes: _____ No: _____

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

2.5" SUCTION - RIGHT SIDE AUXILIARY

One (1) 2.5" brass suction valve shall be installed on the right pump panel with the valve body mounted behind the pump panel. The control handle shall be the quarter turn ball type, of the fixed pivot design, and located along side the suction valve.

Bidder Complies as Written: Yes: _____ No: _____

The suction shall terminate with a 2.5" female NST chrome inlet swivel, a chrome male plug, chain, and a brass inlet strainer. The valve shall be Darley brand with a polished stainless steel ball.

Bidder Complies as Written: Yes: _____ No: _____

2.5" LEFT SIDE DISCHARGE #1

One (1) 2.5" discharge outlet with 2.5" pipe and valve with chrome NST threads shall be supplied at the left side panel. Valve shall be a quarter turn ball type, self locking, fixed pivot design and shall be operated with a lever control from the pump operator's panel.

Bidder Complies as Written: Yes: _____ No: _____

The valve shall be Darley bronze valve with a high polished stainless steel ball. The valve shall have a chrome cap and a stainless steel retaining chain.

Bidder Complies as Written: Yes: _____ No: _____

A 2.5" liquid filled gauge with a stainless steel bezel shall be provided for this discharge. The gauge shall be located on the pump operator's panel near the respective discharge control.

Bidder Complies as Written: Yes: _____ No: _____

2.5" LEFT SIDE DISCHARGE #2

One (1) 2.5" discharge outlet with 2.5" pipe and valve with chrome NST threads shall be supplied at the left side panel. Valve shall be a quarter turn ball type, self locking, fixed pivot design and shall be operated with a lever control from the pump operator's panel.

Bidder Complies as Written: Yes: _____ No: _____

The valve shall be Darley bronze valve with a high polished stainless steel ball. The valve shall have a chrome cap and a stainless steel retaining chain.

Bidder Complies as Written: Yes: _____ No: _____

A 2.5" liquid filled gauge with a stainless steel bezel shall be provided for this discharge. The gauge shall be located on the pump operator's panel near the respective discharge control.

Bidder Complies as Written: Yes: _____ No: _____

2.5" RIGHT SIDE DISCHARGE#3

One (1) 2.5" discharge outlet with 2.5" pipe and valve with chrome NST threads shall be supplied at the right side panel. Valve shall be a quarter turn ball type, self locking, fixed pivot design and shall be operated with a lever control from the pump operator's panel.

Bidder Complies as Written: Yes: _____ No: _____

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The valve shall be Darley bronze valve with a high polished stainless steel ball. The valve shall have a chrome cap and a stainless steel retaining chain.

Bidder Complies as Written: Yes: _____ No: _____

A 2.5" liquid filled gauge with a stainless steel bezel shall be provided for this discharge. The gauge shall be located on the pump operator's panel near the respective discharge control.

Bidder Complies as Written: Yes: _____ No: _____

2.5" RIGHT REAR DISCHARGE #4

One (1) 2.5" discharge outlet with 2.5" pipe and valve with chrome NST threads shall be on the right side rear of the vehicle. Valve shall be a quarter turn ball type, self locking, fixed pivot design and shall be operated with a lever control from the pump operator's panel.

Bidder Complies as Written: Yes: _____ No: _____

The valve shall be Darley bronze valve with a high polished stainless steel ball. The valve shall have a chrome cap and a stainless steel retaining chain.

Bidder Complies as Written: Yes: _____ No: _____

A 2.5" liquid filled gauge with a stainless steel bezel shall be provided for this discharge. The gauge shall be located on the pump operator's panel near the respective discharge control.

Bidder Complies as Written: Yes: _____ No: _____

3.0" RIGHT SIDE LDH DISCHARGE

One (1) 3.0" discharge outlet with 3.0" pipe and valve with chrome NST threads shall be supplied at the right side panel. Valve shall be a quarter turn ball type, self locking, fixed pivot design and shall be operated with a lever control from the pump operator's panel.

Bidder Complies as Written: Yes: _____ No: _____

The valve shall be Darley bronze valve with a high polished stainless steel ball. The valve shall have an chrome elbow, chrome cap and a stainless steel retaining chain.

Bidder Complies as Written: Yes: _____ No: _____

A 2.5" liquid filled gauge with a stainless steel bezel shall be provided for this discharge. The gauge shall be located on the pump operator's panel near the respective discharge control.

Bidder Complies as Written: Yes: _____ No: _____

DECK GUN 3.0" PIPING

One (1) 3.0" deck pipe assembly with a 3.0" slo-cloz self-locking valve shall be provided above the pump as a discharge for a deck gun. The valve shall be constructed of bronze with a stainless steel ball.

Bidder Complies as Written: Yes: _____ No: _____

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The piping shall terminate with NPT threads. A manually operated control handle shall be located on the pump operator's control panel.

Bidder Complies as Written: Yes: _____ No: _____

A 2.5" liquid filled gauge with a stainless steel bezel shall be provided for the discharge. The gauge shall be located on the pump operator's panel near the discharge control. The discharge shall be capped at the outlet of the pipe located on the top of the pumphouse.

Bidder Complies as Written: Yes: _____ No: _____

TFT EXTEND-A-GUN

The Bidder shall provide and install a 18" TFT Extend-A-Gun on the monitor discharge.

Bidder Complies as Written: Yes: _____ No: _____

ELKHART BRASS STINGER MONIOR-COMPLETE

Bidder shall provide and install an Elkhart Brass 8297 complete with top mount flange, monitor base (inlets TBD), storage bracket mounted, base anchor provision, stream shaper and quad stacked tips.

Bidder Complies as Written: Yes: _____ No: _____

SPEEDLAY HOSEBED – WALKWAY

Two (2) speedlays shall be installed on the front portion of the top mount walkway. The speedlays shall be side by side and shall each have capacity for 200 ft. of 1.75" double jacket fire hose. The speedlays shall each be piped with 2.0" pipe and 2.0" self-locking valve and terminate with a 2.0" NPT x 1.5" NST chicksan type swivel at center of the speedlay.

Bidder Complies as Written: Yes: _____ No: _____

The swivels shall allow hose to play out either side of each speedlay. The outside edges of each side opening shall be trimmed with polished stainless steel. A manual control shall be furnished at the pump operator's panel for each.

Bidder Complies as Written: Yes: _____ No: _____

Two (2) 2.5" liquid filled gauges, each with a stainless steel bezel shall be provided, one for each discharge. The gauges shall be located on the pump operator's panel near the discharge control.

Bidder Complies as Written: Yes: _____ No: _____

SPEEDLAY COVER

A 1/8" aluminum diamond plate speedlay cover shall be provided. A full length piano hinge shall be provided on the cover. Both sides of the speedlay shall be covered with a vinyl material and secured by Velcro. A grab strap shall be provided on the bottom of the side cover.

Bidder Complies as Written: Yes: _____ No: _____

BOOSTER REEL

There shall be a Hannay Model EF28-25-26 1/2 HP electric rewind booster reel with automatic brake provided and installed on the floor in the rear center compartment. The reel shall have a

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capacity of 200' of 800 psi booster hose. The reel shall be plumbed to the pump with a 1" high pressure hose and couplings. The valve shall be controlled from the operator's panel. There shall be a manual rewind device furnished. Manual crank shall be mounted adjacent to booster reel.

Bidder Complies as Written: Yes: _____ No: _____

The hose reel shall be steel and painted the standard silver utilized by Hannay.

Bidder Complies as Written: Yes: _____ No: _____

An electric rewind switch shall be located adjacent to the booster reel. The switch shall have a weather proof rubber cover and label denoting its function.

Bidder Complies as Written: Yes: _____ No: _____

The reel shall come equipped with 200 feet of 1" diameter booster hose, 800 psi. The hose shall be furnished in one (1) 200 foot length with hard coat aluminum couplings.

Bidder Complies as Written: Yes: _____ No: _____

There will be two (2) stainless steel hose roller guides installed one (1) on either side of the compartment door opening to allow hose deployment without rubbing the apparatus.

Bidder Complies as Written: Yes: _____ No: _____

A 1-1/2" Darley quarter turn ball type valve shall be provided. The valve shall be controlled at the pump operator's panel.

Bidder Complies as Written: Yes: _____ No: _____

One (1) 2.5"(6.35cm) white-faced, liquid filled pressure gauge shall be installed on the panel near the control handle.

Bidder Complies as Written: Yes: _____ No: _____

BOOSTER REEL NOZZLE

The Bidder shall provide an Elkhart Brass SM-3FG 1" Pistol Grip Nozzle for the booster reel.

Bidder Complies as Written: Yes: _____ No: _____

HYPRO FOAMPRO 2001

There shall be a fully automatic electronic direct injection foam proportioning system furnished and installed on the apparatus. The proportioning operation shall be based on an accurate direct measurement of water flows by a paddle wheel flow meter with no water flow restriction. The foam system shall have a 12 volt, 1/2 horsepower "TENV" electric motor, designed for high humidity environments, coupled to a positive displacement piston type foam concentrate pump. It shall have a rated capacity of .01 to 2.6 GPM with operating pressures up to 400 psi. The system shall be model FoamPro 2001, manufactured by the Hypro Corporation installed in accordance with the manufacturers recommendations.

Bidder Complies as Written: Yes: _____ No: _____

The system shall be equipped with a digital electronic control display. It shall be installed on the pump operators panel and enable the pump operator to perform the following functions:

- Activate the foam system

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- Change foam concentrate proportioning rates from .1% to 3% in .1% increments.
- Display current flow in GPM
- Display total flow in GPM
- Display total amounts of foam concentrates used
- Provide simulated flow for manual operation
- Perform setup and diagnostic functions

Bidder Complies as Written: Yes: _____ No: _____

FOAM TANK

There shall be an external 20 gallon poly foam tank provided and installed with noncorrosive piping to the foam system. The tank shall be located in the dunnage area directly above the water tank.

Bidder Complies as Written: Yes: _____ No: _____

A label shall be affixed to the foam tank fill indicating: "WARNING" Class A (or B) foam tank fill, do not mix brands or types of foam.

Bidder Complies as Written: Yes: _____ No: _____

The system shall supply three (3) discharges as specified and determined by the Purchaser at the Pre-Construction Conference.

Bidder Complies as Written: Yes: _____ No: _____

The system shall be supplied by a single foam tank.

Bidder Complies as Written: Yes: _____ No: _____

There shall be a 1" quarter turn drain valve furnished for drainage of the foam tank. The valve shall be installed in the pump house with a drain line extended to the side running board.

Bidder Complies as Written: Yes: _____ No: _____

MASTER DRAIN

One (1) rotary style master drain shall be installed on the lower portion of the side control panel. It shall be of brass construction and use a rotary screw mechanism against a rubber sealing surface. Each port shall be isolated. An "open and closed" label with arrows indicating direction shall be installed.

Bidder Complies as Written: Yes: _____ No: _____

1/4 TURN DRAINS

Each gated 1-1/2" or larger inlet and discharge shall have a quarter turn drain valve installed. The drain valves shall be located along the bottom on each pump panel. Inlets & discharges shall be plumbed to each drain at the lowest point. Each drain shall be plumbed with low pressure hose to drain below bottom of the apparatus and be directed away from the pump operator. Each drain valve shall have a T-handle control with a recess in the "T" for a color coded function label.

Bidder Complies as Written: Yes: _____ No: _____

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RUNNING BOARDS

Running boards shall be installed on each side of the pump compartment module. The running boards shall be constructed of 1/8" embossed fire apparatus bright aluminum treadplate. Each shall be a minimum of approximately 12" deep x the width of the side panel module. The running boards shall have a 1-1/4" upward bend on the inside edge to act as a kick plate.

Bidder Complies as Written: Yes: _____ No: _____

The aluminum treadplate shall meet recommendations for slip resistant surfaces at the time of proposal.

Bidder Complies as Written: Yes: _____ No: _____

The running boards shall be attached to a frame mounted outrigger support structure. Each running board to have a 3" downward bend on the front and side faces with a 1" underside return for superior strength

Bidder Complies as Written: Yes: _____ No: _____

WALKWAY STEPS

Two (2) steps shall be provided between the operator stand running board and walkway surface, one (1) each side. The step shall be manufactured of a fixed formed embossed aluminum diamond plate. Each surface of the step shall comply with NFPA 1901 for slip resistance, and be capable of sustaining a 500 lb. static load.

Bidder Complies as Written: Yes: _____ No: _____

Two (2) Weldon chrome shielded 12 candle power lights shall be mounted on the back of the cab to illuminate the walkway stepping areas, one each side. Each light shall be directed towards and positioned above the stepping surfaces.

Bidder Complies as Written: Yes: _____ No: _____

BODY MOUNTING SYSTEM

The entire body module assembly shall be mounted to the chassis frame rails with vibration and Vibra-Torq torsion isolator assemblies. The body substructure shall be mounted above the frame to allow independent flexing to occur between the body and the chassis. Two (2) assemblies shall be mounted to the chassis frame rails with steel, gusseted mounting brackets. Each bracket shall be painted for corrosion resistance. Each body mount bracket shall be mounted to the side chassis frame flange with two 5/8"-UNC Grade 5 HHCS.

Bidder Complies as Written: Yes: _____ No: _____

The rear assemblies shall have a two-part rubber vibration isolator. Certain assemblies shall also incorporate a torsion spring. Helical coil springs shall be incorporated into specific mounts in tandem with the rubber isolators to minimize the stress absorbed by the body caused from chassis frame rail flexing.

Bidder Complies as Written: Yes: _____ No: _____

There shall be no welding to the chassis frame rail sides, web or flanges, or drilling of holes in the top or bottom frame flanges between axles. All body to chassis connections shall be bolted

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so that in the event of an accident, the body shall be easily removable from the truck chassis for repair or replacement.

Bidder Complies as Written: Yes: _____ No: _____

Because of the constant vibration and twisting action that occurs in chassis frame rails and suspension, the torsion mounting system is required to minimize the possibility of premature body structural failures. NO EXCEPTIONS.

Bidder Complies as Written: Yes: _____ No: _____

COMPARTMENT VENTILATION

To allow for proper air circulation & flow, each compartment shall have a venting route. The venting locations shall be determined by what's best-fit for each body configuration. The vents will be a chrome louvered plate mounted appropriately on the compartment interior wall(s).

Bidder Complies as Written: Yes: _____ No: _____

COMPARTMENTATION

The following compartments shall be supplied on the apparatus:

Compartment "L1": There shall be one (1) full height compartment ahead of the rear wheels on the left side of the apparatus. The approximate upper interior dimensions of this compartment shall be 37.75" wide x 39.00" high x 12.50" deep and the lower portion 37.50" wide x 33.00" high x 26.00" deep.

Bidder Complies as Written: Yes: _____ No: _____

Compartment "L2": There shall be one compartment over the rear wheels on the left side of the apparatus. The approximate upper dimensions of this compartment shall be 68.00" wide x 39.00" high x 12.50" deep and the lower portion 68.00" wide x 8.00" high x 26.00" deep.

Bidder Complies as Written: Yes: _____ No: _____

Compartment "L3": There shall be one (1) full height compartment behind the rear wheels on the right side of the apparatus. The approximate upper interior dimensions of this compartment shall be 47.00" wide x 39.00" high x 12.50" deep and the lower portion 47.00" wide x 33.00" high x 26.00" deep.

Bidder Complies as Written: Yes: _____ No: _____

Compartment "R1": There shall be one (1) full height compartment ahead of the rear wheels on the right side of the apparatus. The approximate upper interior dimensions of this compartment shall be 37.75" wide x 39.00" high x 12.50" deep and the lower portion 37.75" wide x 33.00" high x 26.00" deep.

Bidder Complies as Written: Yes: _____ No: _____

Compartment "R2": There shall be one compartment over the rear wheels on the right side of the apparatus. The approximate upper dimensions of this compartment shall be 68.00" wide x 39.00" high x 12.50" deep and the lower portion 68.00" wide x 8.00" high x 26.00" deep.

Bidder Complies as Written: Yes: _____ No: _____

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Compartment "R3": There shall be one (1) full height compartment behind the rear wheels on the right side of the apparatus. The approximate upper interior dimensions of this compartment shall be 47.00" wide x 39.00" high x 12.50" deep and the lower portion 47.00" wide x 33.00" high x 26.00" deep.

Bidder Complies as Written: Yes: _____ No: _____

FORMED BODY DESIGN – 0.125" ALUMINUM CONSTRUCTION

The apparatus body shall be a **formed sheet metal** design, which serves as the compartment enclosures and supporting substructure of the body. The substructure and enclosures shall work in unison to provide maximum storage that supports and protect the contents contained within.

Bidder Complies as Written: Yes: _____ No: _____

BODY CONSTRUCTION

The body substructure and compartments shall utilize a combination of huck bolting and welding methods.

Bidder Complies as Written: Yes: _____ No: _____

The huck bolt systems utilized in either body or substructure shall be 5/16" or 3/8" diameter stainless steel fasteners for maximum shear and tension strength. Other system of fasteners that do not consist of stainless steel shall NOT be acceptable.

Bidder Complies as Written: Yes: _____ No: _____

In combination with the Huck system, strictly monitored welding procedures shall be instituted. To ensure maximum joint strength, any welding zones shall be welded together utilizing A.W.S. Certified welding procedures.

Bidder Complies as Written: Yes: _____ No: _____

Due to the engineered combination of specifically chosen materials, no dissimilar metals shall be used in the body and its supporting substructure with out being separated by a sufficient corrosion and electrolysis inhibitor. This shall consist of isolation pads and structural adhesives.

Bidder Complies as Written: Yes: _____ No: _____

BODY SUBSTRUCTURE

The supporting tank and compartment substructure shall be manufactured from corrosion resistant 3CR12 stainless steel material. The supporting material shall be engineered from 7 gauge stainless steel material to provide both high strength and corrosion resistance for longevity of the apparatus body. The use of black carbon steel materials that have been painted or coated to try to prevent corrosion shall not be expectable. NO EXCEPTIONS.

Bidder Complies as Written: Yes: _____ No: _____

BODY COMPARTMENTS

The formed sheet metal compartments shall utilize a 0.125" thick 5052-H32 aluminum alloy to provide maximum strength and durability. Each compartment sheet and enclosure shall be fabricated in a manor to provide proper sheet alignment and weld location application. The body

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shall consist of multiple pre-engineered compartment assemblies that shall be combined to create a series of body combinations. In the event of body damage, these assemblies shall allow for easier disassembly and assembly through the use of common tools and materials.

Bidder Complies as Written: Yes: _____ No: _____

COMPARTMENT TOP & EXTERIOR HOSEBED WALL

The top and wall of the compartments shall be an integral portion of the body. The exterior compartment top and outer hose bed wall shall consist of 1/8” embossed treadbrite aluminum material to provide both strength and pleasing appearance.

Bidder Complies as Written: Yes: _____ No: _____

The hose bed wall shall be treadbrite to the outward face while incorporating an additional smooth aluminum interior wall sheet to form the hose bed area. The use of interior and exterior hose bed wall sheets shall provide an enclosed section for strength integrity, wire routing, etc. Single hose bed wall sheet construction shall NOT be acceptable. NO EXCEPTIONS.

Bidder Complies as Written: Yes: _____ No: _____

The hosebed wall shall contain integrated tarp hooks.

Bidder Complies as Written: Yes: _____ No: _____

COMPARTMENT FLOORS

The body compartments shall be enclosed with aluminum sheet metal as specified above. The compartment floors shall have a 1” lip downward at the door opening side of the compartment. This lip shall integrate with a structural member on the bottom edge and form a “sweep-out” compartment. This design shall also allow for a structural flush fitting door frame and a complete door/weather seal.

Bidder Complies as Written: Yes: _____ No: _____

COMPARTMENT LOAD CAPACITY

Each compartment shall have a minimum of one additional structural compartment floor support hat section centered on the underside of the compartment floor. This additional member shall be integral with compartment assemblies of each area. Each compartment must be designed, and analyzed to carry a working load of:

Full depth side compartment: 500 lbs per compartment

Half depth side compartment: 375 lbs per compartment

Rear center compartment: 500 lbs per compartment

NO EXCEPTIONS

Bidder Complies as Written: Yes: _____ No: _____

FINITE ELEMENT ANALYSIS

The proposed body design must have completed a review and analysis by an external engineering consultant. At a minimum, the consultant must have conducted a computer modeled finite element analysis of the proposed design. The analysis is to include real world working load scenarios. Analysis to cover both static and dynamic situations must be completed. The purpose of the finite element analysis is to ensure proper design of the apparatus body, and that it

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is capable of carrying the typical fire apparatus loads and those specified by NFPA for equipment. Strain Gauge testing must also have been completed.

Bidder Complies as Written: Yes: _____ No: _____

STRUCTURAL WARRANTY – ALUMINUM BODY WARRANTY

The Bodybuilder shall warrant to the original purchaser only, the aluminum body, to be free from defects in material and workmanship, under normal use and service, for a period of ten (10) years. Official warranty documents shall be provided with each proposal for review and consideration.

Bidder Complies as Written: Yes: _____ No: _____

REAR COMPARTMENT

There shall be one compartment installed at the rear of the apparatus. The interior dimensions of this compartment shall be approximately 41.50” wide x 39.50” high x 33.25” deep.

Bidder Complies as Written: Yes: _____ No: _____

ROLL-UP DOOR CONSTRUCTION

All horizontal and vertical side compartment doors shall be roll-up style doors.

Bidder Complies as Written: Yes: _____ No: _____

SATIN ALUMINUM FINISH

The rollup doors shall have a satin aluminum finish.

Bidder Complies as Written: Yes: _____ No: _____

GRAB STRAPS

Black grab straps shall be provided on the inside lower portion of the roll-up door to assist in closing the door.

Bidder Complies as Written: Yes: _____ No: _____

DOOR OPEN INDICATOR

Each roll up door shall have an integral door open indicator magnet in the lift bar. If the bar is not properly closed, it shall activate the "Door Open" light in the cab.

Bidder Complies as Written: Yes: _____ No: _____

HOSE STORAGE

A hosebed shall be provided that meets the minimum NFPA storage requirements. The hosebed shall have a slotted 1/4" aluminum flooring installed to allow drainage through the tank cavity to the ground below. The aluminum flooring shall be manufactured in discrete sections to allow for easy removal and outstanding stability. The area shall be free of sharp edges to protect the hose when loaded or distributed.

Bidder Complies as Written: Yes: _____ No: _____

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HOSEBED WALL FINISH

The apparatus hosebed interior side walls shall be of a natural unpainted metal finish.

Bidder Complies as Written: Yes: _____ No: _____

HOSEBED DIVIDER(S)

There shall be two (2) divider(s) installed in the hosebed. The divider(s) shall be fabricated of 1/4" thick aluminum plate with a double sided reinforcement where it is attached to the adjustable slide rails. The rear of the divider(s) shall have a radius to provide a smooth corner and a hand cut out on the upper portion. Hose payout shall be unobstructed by the divider(s).

Bidder Complies as Written: Yes: _____ No: _____

HOSEBED RISER

A 15.00" hosebed riser made from the same material as the body shall be provided in order to increase the hosebed capacity.

Bidder Complies as Written: Yes: _____ No: _____

CATWALKS

Catwalks shall be provided over the top of the compartments. The catwalks shall be approved stepping surfaces overlaid with 1/8" embossed diamond plate material approved by the latest NFPA standards for abrasiveness. The outboard edge shall be bent downward at a 90 degree angle and over the compartments on both sides.

Bidder Complies as Written: Yes: _____ No: _____

VINYL COATED NYLON HOSEBED COVER

There shall be a vinyl coated nylon hosebed cover provided and installed with the apparatus.

Bidder Complies as Written: Yes: _____ No: _____

An elastic band shall be provided around the perimeter of the cover for securing to the cut-outs provided on the top edge of the hosebed riser. The cover shall have a flap that extends down over the rear of the hosebed which shall be described below.

Bidder Complies as Written: Yes: _____ No: _____

The cover shall have a flap that extends down over the rear of the hosebed which shall be described below.

Bidder Complies as Written: Yes: _____ No: _____

The hosebed cover shall be red.

Bidder Complies as Written: Yes: _____ No: _____

DUNNAGE AREA

A vertical bulkhead shall be installed at the front of the hosebed area, just behind the water tank fill tower, forming a storage area that is separated from the hosebed. The rear face of the bulkhead shall serve as a mounting surface for the hosebed dividers, resulting in the ability to move any hosebed divider across the entire width of the hosebed.

Bidder Complies as Written: Yes: _____ No: _____

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POLYPOLYPRENE BOOSTER TANK

The booster tank shall be constructed of 1/2, 3/4, and 1" thick polypropylene sheet stock which is a non-corrosive stress relieved thermoplastic. It shall be designed to be completely independent of the body and compartments. All joints and seams are extrusion welded and/or contain the "Bent Edge" and tested for maximum strength and integrity. The top of the booster tank is fitted with lifting eyes designed with a 3 to 1 safety factor to facilitate tank removal.

Bidder Complies as Written: Yes: _____ No: _____

BOOSTER TANK COVER

The tank cover shall be constructed of 3/4" thick polyprene and shall be recessed. A minimum of two lifting dowels shall be drilled and tapped 1/2" x 2" to accommodate the lifting eyes.

Bidder Complies as Written: Yes: _____ No: _____

BOOSTER TANK BAFFLES

The swash partitions are manufactured of 1/2" polyprene. All partitions are equipped with vent and air holes to permit movement of air and water between compartments to provide to provide maximum water flow. All swash partitions interlock and are welded to one another as well as to the walls of the tank.

Bidder Complies as Written: Yes: _____ No: _____

BOOSTER TANK MOUNTING

The tank shall rest on the sub-frame cross members with an unsupported area not to exceed 530 square inches on tanks up to 40" in height. On tanks over 40" in height, an unsupported area of not more than 400 square inches must be maintained. All tanks shall be isolated from those cross members with a minimum of 2" x 1/4" hard rubber strips that are 60 durometer in hardness. The tank shall sit cradle mounted in the under body sub-frame and shall be completely removable without disturbing the body side panels.

Bidder Complies as Written: Yes: _____ No: _____

BOOSTER TANK CAPACITY

The tank shall be 1000 gallons in capacity.

Bidder Complies as Written: Yes: _____ No: _____

BOOSTER TANK WARRANTY

A lifetime tank warranty will be provided by the tank manufacturer. Bidder's shall provide a copy of the tank warranty for review and consideration by the Purchaser.

Bidder Complies as Written: Yes: _____ No: _____

BOOSTER TANK FILL TOWER

Fill tower base shall measure approximately 12" long x 13" wide. The tower will have a 1/4" thick removable poly material screen and hinged type cover that will open if the tank is filled at an excess rate. There shall be a removable 1/4" thick poly material screen to prevent debris from falling into the tank. The fill tower shall have a 6" overflow that will discharge underneath the

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tank, behind the rear wheels. The overflow shall terminate above the tank water level when filled to the rated capacity.

Bidder Complies as Written: Yes: _____ No: _____

LADDER STORAGE

There shall be a ladder storage compartment provided and installed on the right side of the apparatus booster tank.

Bidder Complies as Written: Yes: _____ No: _____

The compartment shall have provisions for ladder storage and up to three (3) pike poles.

Bidder Complies as Written: Yes: _____ No: _____

The compartment and door shall be fabricated of .125" smooth aluminum. The door shall be provided with two push button style latches a mechanical hold open device, and a chrome handle centered between the push button latches.

Bidder Complies as Written: Yes: _____ No: _____

The door shall be switched to the "Open Door Indicator Light" in the cab to alert the driver if the door is not closed.

Bidder Complies as Written: Yes: _____ No: _____

REAR ACCESSIBLE SUCTION HOSE AREA STORAGE

There shall be a suction hose storage compartment provided and installed the left side, rear of the apparatus body.

Bidder Complies as Written: Yes: _____ No: _____

The compartment shall extend into the body area of the apparatus and shall be fabricated to an approximate length of 144" long and accommodate two (2) vertically stacked suction hose with barrel strainer and two (2) pike pole storage tubes.

Bidder Complies as Written: Yes: _____ No: _____

The compartment and door shall be fabricated of .125" smooth aluminum. The door shall be provided with two push button style latches a mechanical hold open device, and a chrome handle centered between the push button latches.

Bidder Complies as Written: Yes: _____ No: _____

The door shall be switched to the "Open Door Indicator Light" in the cab to alert the driver if the door is not closed.

Bidder Complies as Written: Yes: _____ No: _____

BODY OVERLAYS – FRONT/REAR

The entire front face of the apparatus body shall have aluminum diamond plate overlays installed. The entire rear face of the apparatus body shall have raw aluminum overlays installed for the installation of chevron striping.

Bidder Complies as Written: Yes: _____ No: _____

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All overlay materials shall be coated with 3M adhesive sealant on the back portion to provide an insulating barrier between dissimilar metals.

Bidder Complies as Written: Yes: _____ No: _____

L2 ROLL-OUT DRAWER/AIR BOTTLE STORAGE TRAY

There shall be a roll-out drawer installed on the left side of the apparatus body, in the rearward lower portion of the compartment directly above the rear wheels. The drawer shall be approximately 25.00" deep by 28.00" wide and have a 300 lb. capacity.

Bidder Complies as Written: Yes: _____ No: _____

There shall also be a four (4) place air bottle storage tray, provided directly forward of the roll-out drawer in the lower portion of the same compartment. Rubber matting shall be installed directly to the air bottle tray to protect the bottles from damage.

Bidder Complies as Written: Yes: _____ No: _____

L2 SHELVING

A shelf 64.00" wide x 12.50" deep x 2.00" high shall be provided in the upper portion of the wheel well compartment. The shelf shall be 3/16" smooth aluminum with a formed 2" lip on the front and back. The side mounting brackets shall be integral with the shelving to form the sides.

Bidder Complies as Written: Yes: _____ No: _____

R2 WHEEL WELL ROLL-OUT DRAWER

There shall be a roll-out drawer installed in the compartment located above the rear wheel on the right side of the body. The drawer shall be approximately 25.00" deep by 59" wide and have a 300 lb. capacity.

Bidder Complies as Written: Yes: _____ No: _____

Black Versiflex matting shall be provided for a pleasing appearance and durability.

Bidder Complies as Written: Yes: _____ No: _____

R2 SHELVING

A shelf 64.00" wide x 12.50" deep x 2.00" high shall be provided in the upper portion of the wheel well compartment. The shelf shall be 3/16" smooth aluminum with a formed 2" lip on the front and back. The side mounting brackets shall be integral with the shelving to form the sides.

Bidder Complies as Written: Yes: _____ No: _____

SHELVING

The shelving shall be made out of .190 smooth aluminum sheet material with a formed 2" lip on the front and back. The side mounting brackets shall be integral with the shelving to form the sides. The shelving shall be vertically adjustable.

Bidder Complies as Written: Yes: _____ No: _____

A full width x half depth x 2.00" high shelf shall be provided and installed in the upper compartment as specified. There shall be a total quantity of two (2).

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- One (1) located in the L-1 compartment.
- One (1) located in the R-1 compartment.

Bidder Complies as Written: Yes: _____ No: _____

A full width x half depth x 2.00" high shelf shall be provided and installed in the upper compartment specified. There shall be a total quantity of four (4).

- Two (2) located in the L-3 compartment.
- Two (2) located in the R-3 compartment.

Bidder Complies as Written: Yes: _____ No: _____

A full width x full depth x 2.00" high shelf shall be provided and installed in the overwheel compartment as specified. There shall be a total quantity of one (1).

- One (1) located in the R-2 compartment.

Bidder Complies as Written: Yes: _____ No: _____

ROLL OUT TRAYS

The tray shall be fabricated of .190 thick 3003 grade or higher aluminum sheet material with four 3" side flanges, corner welded for maximum strength. The tray shall be secured to a 24" long ball bearing slide assembly. The roll-out system shall be bolted to the compartment floor for rigid and sturdy mounting to the compartment floor. The tray shall have a 300# capacity and 100% extension.

Bidder Complies as Written: Yes: _____ No: _____

The following shall be supplied:

A full width x full depth x 3.00" high roll-out tray shall be provided and installed in the compartment as specified. There shall be a total quantity of one (1).

- One (1) located in the R-3 compartment.

Bidder Complies as Written: Yes: _____ No: _____

COMPARTMENT UNISTRUT

Vertically mounted uni-strut shall be installed in ALL compartments (excluding B-1 rear compartment) of the apparatus body to accommodate mounting shelves, trays, and other miscellaneous equipment items. Two (2) horizontally mounted uni-strut tracks shall be provided on the back wall in the compartment(s) over the wheel well.

Bidder Complies as Written: Yes: _____ No: _____

WHEEL WELL PANELS

The body panel area around the wheel well on each side of the body shall be painted the same color as the rest of the body.

Bidder Complies as Written: Yes: _____ No: _____

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SIDE RUB RAILS

The bottom edge of the compartments shall be protected with rub rails to absorb minor damage while protecting the body. The rub rails shall be fabricated of brightly anodized aluminum channel. The rub rails shall be bolted in place with stainless steel bolts and shall be spaced away from the body with 1/2" nylon spacers to help prevent the collection of water and debris. Each rub rail section shall be easily removable and replaced should it become damaged.

Bidder Complies as Written: Yes: _____ No: _____

RUB RAIL REFLECTIVE STRIPING

One inch reflective striping shall be applied to the length of each rub rail section making the perimeter of the apparatus more readily visible.

Bidder Complies as Written: Yes: _____ No: _____

The reflective striping shall be white in color.

Bidder Complies as Written: Yes: _____ No: _____

REAR RUB RAILS

The rearward edge of the rear step shall be trimmed with rub rails to absorb minor damage while protecting the body. The rub rails shall be fabricated of brightly anodized aluminum channel. The rub rails shall be bolted in place with stainless steel bolts and shall be spaced away from the body with 1/2" nylon spacers to help prevent the collection of water and debris. Each rub rail section shall be easily removable and replaced should it become damaged.

Bidder Complies as Written: Yes: _____ No: _____

RUB RAIL REFLECTIVE STRIPING

One inch reflective striping shall be applied to the length of each rub rail section making the perimeter of the apparatus more readily visible.

Bidder Complies as Written: Yes: _____ No: _____

The reflective striping shall be white in color.

Bidder Complies as Written: Yes: _____ No: _____

DOOR SILL TRIM PLATES

Brushed stainless steel door sill plates shall be installed at the bottom of each body compartment door opening.

Bidder Complies as Written: Yes: _____ No: _____

VERTICAL OVERLAY TRIM PLATES

Full height brushed stainless steel vertical overlay trim plates shall be installed on the back outer rear corners of the body compartment.

Bidder Complies as Written: Yes: _____ No: _____

FENDERETTES

Two (2) polished stainless steel fenderettes shall be provided on body rear wheel well openings,

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one (1) each side. A rubber welting shall be provided between the body and the crown to seal the seam and restrict moisture from entering. A dielectric barrier shall be provided between the fender crown fasteners (screws) and the fender sheet metal to prevent corrosion.

Bidder Complies as Written: Yes: _____ No: _____

REAR TAILBOARD

The rear tailboard shall be fabricated of the same materials as used in the apparatus body. The tailboard shall be an independent assembly fastened to the rear body structural framing to provide body protection and a solid rear stepping platform.

Bidder Complies as Written: Yes: _____ No: _____

The rear of the apparatus body shall be vertical in design - otherwise known as a 'flat-back'. On the rear body surface, a sign shall be attached that states: "DO NOT RIDE ON REAR STEP, DEATH OR SERIOUS INJURY MAY RESULT."

Bidder Complies as Written: Yes: _____ No: _____

The rear tailboard and body shall be constructed such that the angle of departure shall be no less than 8 degrees at the rear of the apparatus when fully loaded (Per NFPA 1901).

Bidder Complies as Written: Yes: _____ No: _____

REAR TAILBOARD

The rear tailboard shall be approximately thirteen and one-half (13.5) inches deep and shall incorporate an 1/8" embossed aluminum tread plate overlay. The stepping area shall span the width of the apparatus, overlapping the perimeter of the structural tailboard framework. The embossed tread plate material shall meet the minimum NFPA standard requirements for slip resistance.

Bidder Complies as Written: Yes: _____ No: _____

UPPER REAR STEP

An upper rear diamondplate step, 40.00" wide x 8.00" deep shall be provided above the rear compartment to be used as a stepping area when loading or deploying hose. The step shall be mounted on the flat back of the apparatus with gusset-type mounting. The step shall be constructed of an embossed material meeting the latest NFPA 1901 recommendations.

Bidder Complies as Written: Yes: _____ No: _____

One (1) light shall be mounted to illuminate the stepping areas provided. Each light shall be a Weldon chrome shielded 12 candle power light. Each light shall be directed towards and positioned above the stepping surfaces.

Bidder Complies as Written: Yes: _____ No: _____

Two (2) folding steps shall be installed on the left rear vertical face of the body.

Bidder Complies as Written: Yes: _____ No: _____

A Weldon chrome shielded 12 candle power light shall be mounted to illuminate the stepping areas provided. The light shall be directed towards and positioned above the stepping surfaces.

Bidder Complies as Written: Yes: _____ No: _____

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36" HANDRAILS

One (1) 36" long vertical handrail shall be mounted on each side of the rear center compartment area of the rear of the apparatus. One (1) 36" long handrail shall be horizontally mounted just below the bottom of the hosebed.

Bidder Complies as Written: Yes: _____ No: _____

REAR TOW EYES

There shall be two (2) rear tow eye(s) attached to the rear sub frame support structure. The location of the tow eyes shall be below the rear center compartment. The tow eye(s) shall be manufactured of 1" plate steel that is bolted to the chassis frame rail with a minimum of 6 grade 5 bolts.

Bidder Complies as Written: Yes: _____ No: _____

2 1/2" DIRECT TANK FILL

There shall be an external direct tank fill provided and installed.

Bidder Complies as Written: Yes: _____ No: _____

Located on the left rear of the apparatus.

Bidder Complies as Written: Yes: _____ No: _____

One (1) external direct tank fill with a 2-1/2" Akron valve and a 30 degree elbow, cap, and chain shall be provided.

Bidder Complies as Written: Yes: _____ No: _____

The direct tank fill shall terminate with a heavily chrome plated brass 2 1/2" NPT female to NST female adapter and a 2 1/2" NST male by female swivel 30 degree elbow. In addition, a 2 1/2" NST male plug shall be included secured by a chain or cable to the outlet termination location.

Bidder Complies as Written: Yes: _____ No: _____

PAINT SPECIFICATIONS

All bright metal fittings, if unavailable in stainless steel, shall be heavily chrome plated.

Bidder Complies as Written: Yes: _____ No: _____

Critical body and sub-frame area which cannot be primed after assembly shall be pre-painted.

Bidder Complies as Written: Yes: _____ No: _____

All welded metal surfaces shall be ground to a smooth surface prior to a degreasing and high pressure, high temperature phosphatizing process. The entire surface shall be sprayed with a non-chromate sealing compound to prevent formulation of stains or flash rust on previously phosphatized parts.

Bidder Complies as Written: Yes: _____ No: _____

The paint applied to the apparatus shall be PPG Industries Delta® brand, applied throughout a multi-step process including at least two coats of each color and clear coat finish.

Bidder Complies as Written: Yes: _____ No: _____

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The coating shall be an infra red, baked air dried. The coatings shall provide full gloss finished suitable for application by high-pressure airless or conventional low pressure air atomizing spray.

Bidder Complies as Written: Yes: _____ No: _____

The coatings shall not contain lead, cadmium or arsenic. The polyisocyanate component shall consist of only aliphatic isocyanates, with no portion being aromatic isocyanates in character. The solvents used in all components and products shall not contain ethylene glycol mono-ethyl ethers or their acetates (commercially recognized as cello solves), nor shall they contain any chlorinated hydrocarbons. The products shall have no adverse effects on the health or nor present any unusual hazard to personnel when used according to manufacturers recommendations for handling and proper protective safety equipment, and for its intended use.

Bidder Complies as Written: Yes: _____ No: _____

The coating system, as supplied and recommended for application, shall meet all applicable federal, state and local laws and regulations now in force or at any time during the courses of the bid.

Bidder Complies as Written: Yes: _____ No: _____

The manufacturer shall supply (upon request) for each product and component of the system, a properly complete OSHA "Material Data Safety Sheet".

Bidder Complies as Written: Yes: _____ No: _____

The following documents of the issue in effect on the date of the invitation to quote form a part of this document to the extent specified herein:

Federal Standards: Number 141A and 141B paint, varnish, lacquer and related material: methods of inspection, sampling, and testing.

Military Standard: MIL-C 83486B Coating, Urethane, Aliphatic Isocyanates, for Aerospace applications. Industry Methods and Standards: ASTM Method of Analysis (American Society for testing and Materials). BMS 10-72A (Boeing Material Specifications).

Bidder Complies as Written: Yes: _____ No: _____

The entire exterior body structure (excluding roll-up doors) shall receive the primer coats and the finish coats. The apparatus body, will be painted in a down draft type paint booth to reduce dust, dirt or impurities in the finish paint. The painted surfaces shall have a finish with no runs, sags, craters, pinholes or other defects.

Bidder Complies as Written: Yes: _____ No: _____

The apparatus shall be painted PPG Industries Delta®, the final paint code will be determined by the Purchaser at the Pre-Construction Meeting to meet Fleet Standards.

Bidder Complies as Written: Yes: _____ No: _____

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SPEEDLINER COMPARTMENT FINISH

The compartment interiors shall be coated with medium gray Speedliner.

Bidder Complies as Written: Yes: _____ No: _____

Speedliner durable finish requires no special maintenance and can be washed just like paint.

Bidder Complies as Written: Yes: _____ No: _____

LOW-VOLTAGE ELECTRICAL SYSTEM

The apparatus shall be equipped with a Weldon Logic Controlled, Low-Voltage (12v) Electrical System compliant with the latest revision of the NFPA 1901 guideline.

Bidder Complies as Written: Yes: _____ No: _____

The system shall be capable of performing total load management, load management sequencing, and load shedding via continuous monitoring of the low-voltage electrical system. In addition, the system shall be capable of switching loads (like operating as an emergency warning lamp flasher) eliminating the dependency on many archaic electrical components such as conventional flasher modules. The system shall also incorporate provisions for future expansion or modification.

Bidder Complies as Written: Yes: _____ No: _____

The low-voltage electrical system shall be designed to distribute the placement of electrical system hardware throughout the apparatus thereby enabling a smaller, optimized wire harness. The programmable, logic controlled system shall eliminate redundant electrical hardware such as harnesses, circuit boards, relays, circuit breakers, and separate electrical or interlock subsystems and associated electronics for controlling various electrical loads and inputs.

Bidder Complies as Written: Yes: _____ No: _____

As-built electrical system drawings and a vehicle-specific reference of I/O shall be furnished in the delivery manuals. These drawings shall show the electrical system broken down into separate functions, or small groups of related functions. Drawings shall depict circuit numbers, electrical components and connectors from beginning to end. **A single drawing for all electrical circuits installed by the apparatus builder shall not be accepted.**

Bidder Complies as Written: Yes: _____ No: _____

MULTI-PLEXED ELECTRICAL WARRANTY

A four (4) year limited (V-MUX) multiplex system warranty, of Weldon Technologies, Inc; shall be provided by Crimson Fire, for parts and labor, while under normal use and service; against mechanical, electrical and physical defects from the date of installation.

Bidder Complies as Written: Yes: _____ No: _____

The warranty shall exclude; sensors, shunt interface modules, serial or USB kits, transceivers, cameras, GPS, and electrical display screens, which shall be limited to a period of one a (1) year repair parts and labor from the date of installation.

Bidder Complies as Written: Yes: _____ No: _____

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Each Bidder shall provide an official warranty document with their proposal for review and consideration by the Purchaser.

Bidder Complies as Written: Yes: _____ No: _____

LED DOT LIGHTING

There shall be seven (7) lights located on the rear of the vehicle. Three (3) of the lights shall be mounted on the upper rear face of the body just below the hosebed area in a cluster for use as identification lamps. Two (2) lights shall be located outboard on the upper rear, one each side and two (2) lights on the upper vertical area of Zones B & D facing the side, for use as clearance lamps.

Bidder Complies as Written: Yes: _____ No: _____

The lights shall be Weldon brand 9186-1500 series LED red and amber markers.

Bidder Complies as Written: Yes: _____ No: _____

DOT ADDITIONAL MARKER LIGHTS

There shall be two (2) amber intermediate turn signals/intermediate marker lights on the forward portion of the rear wheel well panel, one (1) each side.

Bidder Complies as Written: Yes: _____ No: _____

The lights shall be Weldon brand 9186-8580-29 series LED amber markers/turn.

Bidder Complies as Written: Yes: _____ No: _____

WHELEN LIGHTBAR

A Whelen 62" JUSTICE lightbar, model JE0NFPA, shall be provided and installed on the apparatus. The lightbar shall consist of a total of ten (10) modules.

Bidder Complies as Written: Yes: _____ No: _____

The light bar shall house four (4) corner red linear LEDs, two (2) front and two (2) rear, four (4) front facing red linear LEDs and two (2) front facing white linear LEDs. The outer lenses shall be clear.

Bidder Complies as Written: Yes: _____ No: _____

EMERGENCY WARNING LIGHTS/ZONE C UPPER

Two (2) Whelen model #L31HRFN, LED beacon lights with red lenses shall be provided. One (1) installed on each side of the upper rear of the apparatus body.

Bidder Complies as Written: Yes: _____ No: _____

EMERGENCY WARNING LIGHTS/ZONE A LOWER

Two (2) Whelen Model 60R02FRR Super LED surface mounted lights with red lenses shall be provided on the front lower portion on the cab, one (1) each side.

Bidder Complies as Written: Yes: _____ No: _____

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EMERGENCY WARNING LIGHTS/ZONE B LOWER

Two (2) Whelen Model 60R02FRR Super LED surface mounted lights with red lenses shall be provided on the lower side portion of the apparatus, one (1) forward and one (1) rearward.

Bidder Complies as Written: Yes: _____ No: _____

EMERGENCY WARNING LIGHTS/ZONE C LOWER

Two (2) Whelen Model 60R02FRR Super LED surface mounted lights with red lenses shall be provided on the rear of the apparatus body above the taillight cluster, one (1) each side.

Bidder Complies as Written: Yes: _____ No: _____

EMERGENCY WARNING LIGHTS/ZONE D LOWER

Two (2) Whelen Model 60R02FRR Super LED surface mounted lights with red lenses shall be provided on the lower side portion of the apparatus, one (1) forward and one (1) rearward.

Bidder Complies as Written: Yes: _____ No: _____

EMERGENCY WARNING LIGHTS/ZONE B & D LOWER

Two (2) Whelen 500 Series Super LED surface mounted lights with red lenses shall be provided on the lower side portion of the pump house module, one (1) each side.

Bidder Complies as Written: Yes: _____ No: _____

LOWER ZONES B&D CAST ALUMINUM LIGHT HOUSING

A cast aluminum light housing shall be used for the rearmost warning lights in zones B & D to ensure the lights are mounted as far rearward as possible.

Bidder Complies as Written: Yes: _____ No: _____

REAR TAIL LIGHT CLUSTER

There shall be a rear tail light cluster furnished and installed in individually mounted polished bezels and flanges at the rear of the apparatus, one cluster each side.

Bidder Complies as Written: Yes: _____ No: _____

The lights shall be manufactured by Whelen and consist of the following:

- 1 - Whelen #60 LED series amber turn signal light populated in the shape of an arrow
- 1 - Whelen #60 LED series red brake light
- 1 - Whelen #60 LED clear backup light

Bidder Complies as Written: Yes: _____ No: _____

ENGINE COMPARTMENT LIGHT

There shall be one (1)12 volt work light, Weldon LED light(s) model #2631-0000-30, installed in the engine compartment. The light shall be enclosed in a water resistant enclosure and shall have an on/off switch.

Bidder Complies as Written: Yes: _____ No: _____

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

COMPARTMENT LIGHTING

There shall be two (2) Weldon model #2030 lights mounted in the interior of each body compartment, one on the forward wall and one on the rear wall. The lights shall be mounted with enough wire slack to allow vertical adjustment for future repositioning. The lights shall be on a separate circuit, and illuminate only when the compartment door is open.

Bidder Complies as Written: Yes: _____ No: _____

ADDITIONAL PERIMETER LIGHTS

There shall be four (4) additional perimeter lights furnished and installed, one (1) under each side of the body, and two (2) under the rear step to illuminate the ground around the truck. They shall be manufactured by Trucklite and be model # 40034.

Bidder Complies as Written: Yes: _____ No: _____

HOSE BED FLOOD LIGHTS

There shall be two (2) Unity flood lights furnished and installed on an angled cast bracket, located on the upper rear hosebed wall of the apparatus, one each side. The flood light shall be approximately 6 inches in diameter and be 50 watts each.

Bidder Complies as Written: Yes: _____ No: _____

LED TELESCOPING LIGHTS

Bidder shall provide and install two (2) Whelen Pioneer model #PCP2P, dual lamp, 12volt, LED, 8 degree optics, spot/flood light, through mounted, top raise, telescoping scene light installed on the apparatus as specified below. The light pole shall have a friction type lock to hold the pole in the extended position.

Bidder Complies as Written: Yes: _____ No: _____

Two (2) light(s) shall be mounted through the pump module, (1) per side.

Bidder Complies as Written: Yes: _____ No: _____

The scene lights shall be activated by a switch on the rocker switch panel and by a switch on the pump panel.

Bidder Complies as Written: Yes: _____ No: _____

RETROFLECTIVE LETTERING AND STRIPING

The retroflective striping and lettering shall be supplied and installed by the Bidder to match the current fleet standard of the Purchaser.

Bidder Complies as Written: Yes: _____ No: _____

RETROFLECTIVE CHEVRON STRIPING

There shall be retroflective diamond grade chevron striping applied to the rear of the apparatus.

Bidder Complies as Written: Yes: _____ No: _____

The retroflective chevron striping shall be red and yellow in color.

Bidder Complies as Written: Yes: _____ No: _____

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

LICENSE PLATE BRACKET

Provisions for mounting a license plate shall be installed on the apparatus in conjunction with the proper illumination to meet DOT requirements.

Bidder Complies as Written: Yes: _____ No: _____

ZICO WHEEL CHOCKS

One (1) set(s) of NFPA compliant Ziamatic folding wheel chocks model # SAC-44 shall be supplied with the apparatus.

Bidder Complies as Written: Yes: _____ No: _____

ZICO WHEEL CHOCK MOUNTING BRACKETS

One (1) set(s) Ziamatic folding wheel chock underbody horizontal mounts model # SGCH-44-H shall be furnished and installed on the apparatus under the body in front of the rear wheels, driver's side.

Bidder Complies as Written: Yes: _____ No: _____

GROUND LADDERS

The following ground ladders shall be provided:

There shall be a Duo-Safety 24' two (2) section aluminum extension ladder, model 900A, provided with the apparatus. There shall be a total of one (1).

Bidder Complies as Written: Yes: _____ No: _____

There shall be a Duo-Safety 14' aluminum roof ladder with folding hooks, model 775A, provided with the apparatus. There shall be a total of one (1).

Bidder Complies as Written: Yes: _____ No: _____

There shall be a Duo-Safety 10' folding aluminum folding ladder, model 585A, provided with the apparatus. There shall be a total of one (1).

Bidder Complies as Written: Yes: _____ No: _____

PIKE POLES

The following pike poles shall be provided:

There shall be a Duo-Safety 12' pike pole with a fiberglass handle provided with the apparatus. There shall be a total of one (1).

Bidder Complies as Written: Yes: _____ No: _____

There shall be a Duo-Safety 8' pike pole with a fiberglass handle provided with the apparatus. There shall be a total of one (1).

Bidder Complies as Written: Yes: _____ No: _____

The pike poles shall be mounted in aluminum tubing in the ladder compartment or suction hose compartment when one or the other is present on the apparatus.

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

Bidder Complies as Written: Yes: _____ No: _____

SUCTION HOSE

Two (2) 10' length(s) of 6" clear PVC suction hose with lightweight couplings shall be supplied and installed on the apparatus.

Bidder Complies as Written: Yes: _____ No: _____

LOOSE EQUIPMENT

There will be no loose equipment supplied with this bid.

SUPPLIED INFORMATION & EXTRAS

The apparatus manufacturer shall supply two (2) copies of apparatus manuals with all manufactured apparatus. The manuals shall include, but not be limited to: all component warranties, users manuals and information for supplied products, apparatus engineering information including drawings and build prints, and whatever other pertinent information the apparatus manufacturer can supply to its Purchaser regarding the said apparatus.

Bidder Complies as Written: Yes: _____ No: _____

Included in the delivery of the unit, the apparatus manufacturer shall also include spare hardware and extra fasteners, paint for touch-up, information regarding washing and care procedures, as well as other recommendations for care and upkeep of the general apparatus.

Bidder Complies as Written: Yes: _____ No: _____

The apparatus manufacturer shall also supply a manufacturer's record of apparatus construction details, including the following information:

Owner name and address;

Apparatus manufacturer, model, and serial number;

Chassis make, model, and serial number;

GAWR of front and rear axles;

Front tire size and total rated capacity in pounds;

Rear tire size and total rated capacity in pounds;

Chassis weight distribution in pounds with water (if applicable) and manufacturer mounted equipment (front and rear);

Engine make, model, serial number, rated horsepower, related speed and no load governed speed;

Type of fuel and fuel tank capacity;

Electrical system voltage and alternator output in amps;

Battery make and model, capacity in CCA;

Paint numbers;

Weight documents from a certified scale showing actual loading on the front axle, rear axle(s), and overall vehicle (with the water tank full (if applicable) but without personnel, equipment, and hose);

Written load analysis and results of the electrical system performance tests;

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

Transmission make, model, and type;
Pump to drive through the transmission (yes or no);
Engine to pump gear ratio and transmission gear ratio used;
Pump make, model, rated capacity in gallons per minute, serial number, and number of stages,
Pump manufacturer's certification of suction capability;
Pump manufacturer's certification of hydrostatic test;
Pump manufacturer's certification of inspection and test for the fire pump;
Copy of the apparatus manufacturer's approval for stationary pumping applications;
Pump transmission make, model and serial number;
Priming device type;
Type of pump pressure control system;
The engine manufacturer's certified brake horsepower curve for the engine furnished, showing the maximum no load governed speed;
Certification of water tank capacity;

Bidder Complies as Written: Yes: _____ No: _____

TRAINING

A qualified delivery engineer representing the contractor shall instruct the Fire Department Personnel in the proper operation, care and maintenance of the equipment delivered.

Bidder Complies as Written: Yes: _____ No: _____

PERFORMANCE TESTS AND REQUIREMENTS

A road test shall be conducted with the apparatus fully loaded and a continuous run of ten miles or more will be made, during which time the apparatus shall show no loss of power or overheating. The transmission drive shaft or shafts and rear axles shall run quietly and be free from abnormal vibration or noise throughout the operating range of the apparatus. The successful bidder shall furnish a Weight Certificate showing weights on front axle, rear axles and total weight for the completed apparatus at time of delivery.

Bidder Complies as Written: Yes: _____ No: _____

A. The apparatus shall be capable of accelerating to 35 MPH from a standing start within 25 seconds on a level concrete highway without exceeding the maximum governed RPM of the engine.

Bidder Complies as Written: Yes: _____ No: _____

B. From a steady space of 15 MPH the vehicle shall accelerate to 35 MPH within 30 seconds. This shall be accomplished without moving the gear selector.

Bidder Complies as Written: Yes: _____ No: _____

C. The service brakes shall be capable of stopping the fully loaded vehicle in 35 feet at 20 MPH on level dry concrete highway.

Bidder Complies as Written: Yes: _____ No: _____

D. The apparatus, fully loaded, shall be capable of obtaining a minimum speed of 50 MPH on a level dry concrete highway with the engine not exceeding its governed RPM (fully loaded).

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

Bidder Complies as Written: Yes: _____ No: _____

E. The apparatus shall be tested and approved by the Underwriter's Laboratories Incorporated in accordance with their standard practices for pumping engines.

Bidder Complies as Written: Yes: _____ No: _____

F. The Contractor shall furnish copies of the Pump Manufacturer's Certification of hydrostatic test, the Engine Manufacturer current certified brake horsepower curve, and the Manufacturer's record of pumper construction details when delivered.

Bidder Complies as Written: Yes: _____ No: _____

The vendor, at their expense, shall have the Underwriter's Laboratories Incorporated conduct the tests required by the Underwriter Laboratories Incorporated (Guide for the Certification of Fire Department Pumper subject 822 dated 1995 or latest). A copy of all tests shall accompany the Apparatus.

Bidder Complies as Written: Yes: _____ No: _____

END OF SPECIFICATIONS

**Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s)
and Equipment**

EXHIBIT A CONTRACT FORM

**AGREEMENT BETWEEN
SKAGIT COUNTY FIRE PROTECTION DISTRICT No. 8,**

AND _____

FOR THE PURCHASE OF _____

THIS AGREEMENT is made and entered into by Skagit County Fire Protection District No. 8, a Washington municipal corporation hereinafter "District"; & _____ "Vendor."

In consideration of the payments, covenants, and agreements hereinafter mentioned, to be made or performed by the parties hereto, the parties covenant and agree to the following:

1. **Term – Agreement.** The term "Agreement" as used herein, shall constitute this document entitled "Agreement" between Skagit County Fire Protection District No. 8, & _____ for the purchase of one 2 new _____ and the following attachments which are incorporated by this reference:

Attachment A, entitled "Proposal," together with all specifications and drawings referenced in the Proposal.

Attachment B, entitled "Bid Specifications" as prepared by District.

2. **Term – Apparatus.** This Agreement is for the purchase of _____ new _____ together with all described parts, systems and equipment that conforms to the terms of this Agreement "Apparatus".

3. **Scope of Work**

- 3.1. Vendor agrees to build and deliver to the District two (2) fully functional Apparatus that meets the specifications set forth in this Agreement and its various attachments.
- 3.2. The District promises and agrees with Vendor to engage Vendor to provide the Apparatus as described in this Agreement and for Vendor to complete and finish the same according to the plans and specifications set forth in this Agreement and Attachments.
- 3.3. The parties agree that the Apparatus will conform to all Federal Department of Transportation rules and regulations in effect at the time of signing of the Agreement, and with all National Fire Protection Association guidelines for Automotive Fire Apparatus as published at the time of signing of this Agreement.

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

4. Delivery and Risk of Loss

- 4.1. Vendor agrees to deliver to the District two (2) fully functional Apparatus, free of defects, that conforms to the specifications set forth in this Agreement within 240 days of the date this Agreement has been executed by both parties F.O.B. Sedro Woolley WA; provided, the risk of loss for any defect or damage to the Apparatus shall remain with Vendor until the Apparatus is accepted by the District.
- 4.2. Vendor shall, at the request of the District, provide a representative to demonstrate the operation of the Apparatus and to train and instruct District representatives regarding the operation of the Apparatus at the time of delivery.

5. Time is of the Essence/Liquidated Damages

- 5.1. The District and Vendor agree that time is of the essence in the performance of this Agreement.
- 5.2. Liquidated damages at a rate of \$200.00 per calendar day shall be assessed against Vendor for the late performance of any condition or term set forth in this Agreement. Vendor's delay in the performance of any term of this Agreement shall be excused if the cause of such delay is beyond the control of, and without the fault or negligence of, Vendor, including acts of god, acts of the public enemy, acts of a government entity, fires, floods, and earthquakes directly affecting Vendor.

6. Payment and Options

- 6.1. **OPTION** The total amount to be paid for the Apparatus is \$_____ plus any applicable sales tax. Payment shall be made as follows: 90% of purchase price shall be due on acceptance. The balance due shall be due within thirty days of acceptance. Payment shall be made by the District directly to the party designated on the invoice.
- 6.2. **OPTION** The total amount to be paid for the Apparatus is \$_____ plus any applicable sales tax. Payment shall be made within thirty (30) days of signing of this Agreement by the Vendor and the District's receipt of a properly executed Performance Bond. Payment shall be made by the District directly to the party designated on the invoice.
- 6.3. On receipt of payment, Vendor shall cause all titled equipment being purchased to be titled in the name of District free and clear of any third party interests or liens regardless of the equipment location. The District's ownership interest is intended as a security and shall not be construed as acceptance of the Apparatus.

7. Inspection

- 7.1. **OPTION** The District is entitled to inspect the Apparatus at the times and in the manner specified in the Bid Specifications.

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

- 7.2. **OPTION** The District is entitled to inspect the Apparatus at One (1) stage prior to delivery. The inspection shall be scheduled at a time mutually agreed upon between the Vendor and the District.
- 7.3. **OPTION** Vendor shall provide and pay the expenses for travel, meals, and accommodations for two (2) representatives of the District for each of the inspections that occur at the Vendor's manufacturing site. The District representatives shall, at a minimum, be afforded twenty-four (24) hours of time to inspect the Apparatus during the inspection. Additional inspection time shall be afforded for the inspection of any item that is discovered by a District representative to be defective. All deficiencies shall be corrected prior to the apparatus leaving the Vendor's facility. The Vendor shall cover all expenses of the District representatives if the apparatus is not ready at the end of the inspection. If the deficiencies are not corrected within three days, the Vendor shall fly the District representatives home. Once the deficiencies are corrected, the Vendor shall notify the District and pay for the expenses of two (2) of its representatives back to the Vendor's facility to re-inspect. Inspection periods shall include only the time that District representatives actually spend at the Vendor's manufacturing facility inspecting the Apparatus.
- 7.4. The District representatives shall, at a minimum, be afforded twenty-four (24) hours of time to inspect the Apparatus during the inspection. Additional inspection time shall be afforded for the inspection of any item that is discovered by a District representative to be defective. All deficiencies shall be corrected prior to the apparatus leaving the Vendor's facility.
- 7.5. There shall be a post-delivery final inspection conducted at the District's premises to ensure that the Apparatus conforms to the terms of this Agreement and passes all inspections and tests as required by the District or other laws or regulations prior to acceptance of the Apparatus. The initial post-delivery inspection and testing shall be completed within thirty (30) days of delivery of the Apparatus. In the event the Apparatus fails to meet the tests as required by the District on first trials, second trials may be conducted by the District, at the sole option of the District, within thirty (30) days from the date of the first trials. Such trials shall be final and conclusive.
- 7.6. Vendor specifically agrees that its failure to afford the District the opportunity to inspect the Apparatus pursuant to the terms of this Agreement shall be sufficient cause, in and of itself, for the rejection of the Apparatus and a full refund of any prepaid purchase price.
- 7.7. Notwithstanding any right of inspection, Vendor shall notify the District of any known or discoverable defect in the Apparatus that exists on the date the Apparatus is delivered, or is later discovered by Vendor.
8. **Acceptance.** Acceptance of the Apparatus shall occur after the Apparatus passes post-delivery inspections and tests. Risk of loss for any defect or damage to the Apparatus shall remain with Vendor until the Apparatus is accepted. The fact that the District uses the Apparatus for the inspection and tests shall not constitute acceptance.

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

9. **Rejection.** The District reserves the right to inspect the Apparatus for any defects, irregularities, non-conformities, and defects in workmanship and appearance, and to reject a non-conforming or defective Apparatus. The District will notify Vendor of the rejection of the Apparatus in writing. The District will also provide Vendor with a written description of the reason(s) for rejection. The District will hold the Apparatus in its possession with reasonable care at Vendor's disposition for a time sufficient to permit Vendor to remove the Apparatus. If Vendor gives no instructions within a reasonable time after notification of the rejection, the District will store the Apparatus at Vendor's expense and such expense shall become a security interest in favor of the District. The parties understand that in the case of rejection, the District is not required to store the Apparatus in an enclosed area.

10. Cure

10.1. If the District has rejected the Apparatus for a defect or non-conformity, or the Apparatus has or develops a defect after acceptance of the Apparatus, Vendor shall have thirty (30) days to cure the defect; provided, Vendor provides the District written notice of Vendor's intent to cure the defect and assures the District that it is capable of curing such defect. The District shall notify Vendor in writing of its discovery of any defect within thirty (30) days of the actual discovery of the defect. The cure of the defect shall be at the sole expense of the Vendor, and Vendor shall cover all costs of such cure. In the event the cure requires that the Apparatus to be transported beyond the limits of the State of Washington, Vendor shall, in addition to covering all costs of such cure, pay to the District \$0.55 per mile that the Apparatus is driven to cover the wear and tear on the Apparatus.

10.2. Unless otherwise agreed to in a separate writing signed by the parties, Vendor shall have one opportunity to cure each defect for which it has been placed on notice or which Vendor discovers. Any agreement to cure defects of the Apparatus shall not constitute a settlement of claims brought pursuant to the terms of this Agreement.

10.3. If, at any time, Vendor discovers a defect in the Apparatus, Vendor shall, within two (2) days of discovery, notify the District of such defects in writing and shall promptly cure such defect, if Vendor so chooses, pursuant to this section.

11. Warranty

11.1. Vendor warrants and guarantees that the Apparatus will be manufactured in accordance with the specifications set forth in the attachments to this Agreement. Vendor shall provide express warranties consistent with the requirements in the Bid Specifications.

11.2. The implied warranties of merchantability and fitness for a particular purpose, as set forth in sections 62A.2-314 and -315 of the Revised Code of Washington, shall apply to the Apparatus. These implied warranties shall apply even though they may be disclaimed in an attachment to this Agreement or other documents supplied by the Vendor, such that this section shall prevail over such disclaimer, and such disclaimer shall not apply. The inspection of or failure to inspect the Apparatus shall not constitute a waiver or cancellation of the implied warranties.

11.3. If the Apparatus or any component, unit, or subsystem is repaired, rebuilt, or replaced pursuant to this Agreement, such warranty work, component, unit, or subsystem shall have

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

the remaining unexpired warranty of the Apparatus, the original component, unit or subsystem, or a warranty of six (6) months, which ever period is longer.

- 11.4.** Vendor shall provide all paperwork relating to warranty coverage of the Apparatus or their components to the District upon delivery of the Apparatus. In the event of any discrepancy or inconsistency between the paperwork and this Agreement, the provisions providing the greatest warranty protection to the District shall control.
- 11.5.** The warranty periods set forth in this Agreement shall not begin to run until the Apparatus is placed in-service by the District. The District will promptly notify Vendor of the date the Apparatus is placed in service and the mileage of the Apparatus when it is placed in-service. The warranty period set forth in this Agreement shall not run during any period in which the Apparatus is not functional due to a defect in the Apparatus so long as the District places Vendor on written notice of the defect.
- 11.6.** In the event a component manufacturer requires that the purchaser register its purchase with the manufacturer to make effective a component manufacturer's warranty, Vendor shall take all steps necessary to register such purchase with the component manufacturer. In the event Vendor fails to properly register the District's purchase with the component manufacturer, then Vendor shall assume the status of warrantor of such component as if such registration had occurred. The District's failure to discover any defect during any inspection or at any other time shall not constitute a waiver of the warranty applicable to such defect.

12. Performance Bond OPTION

- 12.1.** Vendor shall not be required to post a performance bond.

13. Performance Bond OPTION. Vendor shall provide and execute a performance bond for the full contract amount. This performance bond shall:

- 13.1.** Be signed by an approved surety (or sureties) that:
- A. Is registered with the Washington State Insurance Commissioner, and
 - B. Appears on the current authorized Insurance List for the State of Washington published by the Office of the Washington Insurance Commissioner.
- 13.2.** Be conditioned on and guarantee the faithful performance of the contract by Vendor within the prescribed time.
- 13.3.** Guarantee that the surety shall indemnify, defend, and protect the District against any claim of direct or indirect loss resulting from the failure:
- A. Of Vendor (or any of the employees, sub-contractors, volunteer sub-contractors of Vendor) to faithfully perform the contract, and

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

- B. Of Vendor (or the sub-contractors) to pay all laborers, mechanics, sub-contractors, volunteers, material person, or any other person who provides supplies or provisions for carrying out the work.
- 13.4.** The District may require the surety companies on the Performance Bond to appear and qualify themselves. When the District deems the surety or sureties to be inadequate, it may, upon written demand, require Vendor to furnish additional surety to cover any remaining work. Until the added surety is furnished, payments on the contract will stop.
- 13.5.** The parties agree that no liability shall attach to the District by reason of entering into this Agreement except as expressly provided herein.
- 14. Non-Assignment.** Vendor shall not assign this Agreement nor any part thereof, nor any monies due or to become due thereunder, without the prior written approval of the District. Vendor shall not sublet any part of this Agreement without first having obtained the written consent of the District to do so. IN CASE SUCH CONSENT TO SUBLET ANY PART OF THIS AGREEMENT IS GIVEN BY THE DISTRICT, IT SHALL IN NO WAY RELEASE VENDOR FROM ANY RESPONSIBILITY UNDER THIS AGREEMENT, AND VENDOR SHALL BE HELD IN ALL RESPECTS ACCOUNTABLE AS IF NO CONSENT HAS BEEN GIVEN. VENDOR WILL BE REQUIRED TO GIVE PERSONAL ATTENTION TO THE WORK THAT IS SUBLET.
- 15. Indemnification.** Vendor shall defend, indemnify, and hold the District, it's officers, officials, employees, agents and volunteers harmless from injury and all claims, injuries, damages, losses, and suits including all legal costs and attorney fees arising out of or in connection with the performance of this Agreement except for injuries and damages resulting from the sole negligence of the District. The District's inspection or acceptance of the Apparatus when completed will not be grounds to avoid any of these covenants of indemnification. The provisions of this section shall survive the expiration or termination of this Agreement. The District shall: (1) promptly notify Vendor of any claim for which indemnification may be sought; (2) cooperate fully in the defense of such claim; and (3) permit Vendor to settle or compromise such claim on terms and conditions which, in good faith, it determines are appropriate.
- 16. Insurance.** The Vendor shall procure and maintain for the duration of the Agreement, insurance against claims for injuries to persons or damage to property which may arise from or in connection with the performance of the work hereunder by the Vendor, its agents, representatives, employees or subcontractors. The Vendor's insurance must be primary, and any insurance or self-insurance maintained by the District shall not contribute to it. If any part of this Contract is subcontracted, these insurance requirements also apply to all subcontractors.
- 17. Discrimination.** In the hiring of employees for the performance of work under this Agreement or any sub-contract hereunder, Vendor, its sub-contractors, or any person acting on behalf of Vendor or its sub-contractor shall not, by reason of race, religion, color, sex, national origin, or the presence of any sensory, mental, or physical disability, discriminate against any person who is qualified and available to perform the work to which the employment relates.
- 18. Severability.** If any term, provision, condition, or other portion of this Agreement, or it's application to any person is held to be inoperative, invalid, or void, than the same shall not affect any other term, provision, condition, or any other portion of this Agreement or it's application to any person.

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

- 19. Cumulation of Remedies.** All remedies available to either party for breach of this Agreement are cumulative and may be exercised concurrently or separately, and the exercise of any one remedy shall not be deemed an election of such remedy to the exclusion of other remedies.
- 20. Non-Waiver of Breach.** No term or provision hereof shall be deemed waived and no breach consented to unless such waiver or consent shall be in writing and signed by the party claimed to have waived or consented. Any consent by any party, or waiver of, the breach of the other whether expressed or implied shall not constitute a continuing waiver of or consent to, nor excuse a different or subsequent breach. The failure of the District to enforce one portion of this Agreement shall not constitute a waiver, or excuse the breach, of another portion of this Agreement.
- 21. Authority.** Each party has full power and authority to enter into and perform this Agreement, and the person signing this Agreement on behalf of each party has been properly authorized and empowered to enter into this Agreement. Each party further acknowledges that it has read this Agreement and understands and agrees to be bound by its terms.
- 22. Choice of Law/Attorney Fees and Costs.**
- 22.1.** This Agreement shall be exclusively governed and controlled by the laws of the State of Washington, including, but not limited to, the State's Uniform Commercial Code as contained in Chapter 62A.2 RCW. To the extent that this Agreement conflicts with the provisions of Chapter 62A.2 RCW, the terms of this Agreement shall control. Jurisdiction and venue for any action relating to this Agreement shall exclusively be in the Superior Court for King County, Washington. In the event of litigation concerning the terms of or performance under this agreement, the prevailing party, in addition to costs, shall be entitled to reasonable attorney's fees as determined by the court.
- 23. Termination**
- 23.1.** This Agreement may be terminated in whole or in part:
- 23.2.** By the District if Vendor fails to deliver a conforming Apparatus within thirty (30) days after the time for delivery specified in this Agreement or after thirty (30) days for a cure of any defect or non-conformity. The District shall notify Vendor of the termination, the reasons thereof, and the effective date.
- 23.3.** By the mutual written agreement of the District and Vendor. The Agreement to terminate shall include the conditions of termination, the effective date, and in the case of termination in part, the portion to be terminated.
- 23.4.** After the effective date of termination, no charges incurred under this Agreement, or terminated portions thereof, are allowable.
- 24. Notice to Proceed.** Vendor shall commence all work immediately upon execution of the Agreement and shall provide a performance bond, and a copy of an insurance policy(ies)\certificate(s).

Bid Specifications & Information for Two (2) 1500 GPM UL Rated Triple Combination Pumper(s) and Equipment

- 25. **Sales Tax.** The District shall be responsible for paying Washington State Sales Tax on the contract amount at a rate that is current when and where the unit is purchased. Sales tax collected by Vendor will be subject to WAC 458-20-145, Special Rule No. 1.
- 26. **Ownership and Title.** Upon acceptance of the Apparatus and payment by the District pursuant to this Agreement, ownership and title of the Apparatus shall pass to the District free and clear of any interest or lien..
- 27. **Modification.** This Agreement may only be amended or modified by the mutual written agreement of the parties. All amendments or modifications shall be signed by both parties and be attached to this Agreement.
- 28. **Standard of Performance.** All work to be performed by Vendor shall be performed in a workman-like manner in accordance with generally accepted professional practices in effect at the time such work is performed.
- 29. **Notices.** Any notices to be delivered shall be directed to the attention of the following:

<p>NOTICES TO BE SENT TO: VENDOR: Attn: _____</p> <p>(____) _____ (telephone) (____) _____ (facsimile)</p>	<p>NOTICES TO BE SENT TO: DISTRICT #8: Attn: <u>Chief Rusty Feay</u></p> <p>(360)-724-4703 (telephone) (360)-724-3166 (facsimile) Skagitf8@wavecable.com</p>
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- 30. **Entire Agreement.** This Agreement constitutes the entire agreement between the District and Vendor. With the exception of properly executed written modifications, representations, either written or oral, that do not conform to the "modification" section of this Agreement, shall not be considered part of this Agreement.
- 31. **Conflict of Terms.** The terms of this Agreement, including the Attachments, shall be read together. Unless otherwise specified in this Agreement, in the event that any of the terms of the Agreement including the Attachments conflict with each other, the following shall be the order of precedence:
 - 31.1. The terms of this Document entitled "Agreement Between Skagit County Fire Protection District No. 8 And _____ For The Purchase Of 2 International Pumpers," shall take precedence over the terms of any other portion of this Agreement.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed the day and year written below. If the dates written below do not coincide, the latest written date shall act as the effective date of this Agreement.