



City of Prescott
Purchasing Services
216 S. Marina St., Suite 302
Prescott, AZ 86303-3929

Proposal 08PFD0029
1500 GPM Pumper Fire Engine

The City of Prescott is soliciting proposals from qualified companies for the purchase of (1) 1500 GPM Pumper Fire Engine. Sealed proposals (one (1) original and four (4) copies) shall be received before 2:00 pm on Thursday, July 11, 2008 at the time and place indicated in Section 2.2.

Table of Contents

1.0 Solicitation Specifications/Scope of Work/Proposal Evaluation 3

SECTION I - CHASSIS 11

SECTION II - PUMP AND PIPING..... 28

SECTION III - PUMP OPERATOR’S PANEL 33

SECTION IV - BOOSTER TANK AND PIPING..... 36

SECTION V - HOSE BODY AND COMPARTMENTS..... 37

SECTION VI - ELECTRICAL SYSTEM AND WARNING EQUIPMENT 43

SECTION VII - PAINT FINISH AND LETTERING 55

SECTION VIII - ACCESSORIES 56

SECTION IX - PROPOSAL OPTION 60

2.0 Solicitation Process Requirements/Tentative Timeline 61

2.1 Communications with the City 61

2.2 Schedule 61

2.3 Questions and Requests for Addenda..... 61

2.4 City Answers and Addenda 61

2.5 Proprietary Material 61

2.6 Multiple Proposals 62

2.7 Delivery of Proposals 62

2.8 Cost of Proposals 62

2.9 Errors in Proposals 62

2.10 Withdrawal of Proposals 62

2.11 Changes in Proposals 63

2.12 Rejection of Proposals 63

2.13 Disposition of Proposals..... 63

2.14 Incorporation of Solicitation and Response in Agreement..... 63

2.15 Protests 63

2.16 Proposal Submittal 63

3.0 General Contract Terms and Conditions..... 63

4.0 Standard Proposal Information..... 67

4.1 Default by Proposer 67

4.2 Cash Discounts..... 67

4.3 Warranty 67

4.4 Litigation..... 67

4.5 Cooperative Use of Contract 67

4.6 Brand Names..... 68

5.0 Instructions for Solicitation Forms 68

5.1 Form A - Solicitation Response Cover Sheet..... 68

5.2 Form B - Proposal Certification..... 68

5.3 Form C - Non-Collusion Certificate..... 68

5.4	Form D - Contractor Questionnaire	68
5.5	Form E - Certificate of Ownership	68
5.6	Form F - Proposer Optional Information.....	68
5.7	Form G - Proposer Qualifications, Representations and Warranties,	68
	Form A – Solicitation Response Cover Sheet.....	70
	Form B – Proposal Certification	71
	Form C – Non-Collusion Certificate	72
	Form D – Proposer Questionnaire	73
	Form E – Certificate of Ownership	74
	Form F – Proposer Optional Information	75
	Form G – Proposer Qualifications, Representations and Warranties.....	76

1.0 Solicitation Specifications/Scope of Work/Proposal Evaluation

It shall be the intent of these specifications to secure (1) 1500 gallon per minute (GPM) pumper fire engine with 500 gallon water tanks. The apparatus shall be able to withstand the service and continuous use encountered in emergency fire-fighting service. The apparatus shall be of the latest type, symmetrically proportioned and constructed with due consideration of the load to be sustained and with safety factors provided to meet both on and off road requirements and speed conditions as set forth under performance tests and requirements. Details of construction and materials, where not otherwise specified, are left to the discretion of the contractor, who shall be solely responsible for the design and construction of all features.

NOTE: All parts not specifically mentioned herein, but which are necessary in order to furnish a complete fire apparatus, shall conform in design and quality of material to the highest engineering standards.

QUALIFICATIONS OF THE PROPOSERS FOR THIS PROPOSAL:

Proposals shall only be considered from manufacturers with an established reputation in the field of fire apparatus construction. Each proposer shall provide satisfactory evidence of his ability to construct the apparatus specified and shall state the location of the factory where the apparatus is to be built. Each proposer shall submit a list of and provide proof of the fact that they have designed, built and delivered a minimum of fifty (50) 1500 GPM pumper fire apparatus with 500 gallon water tank over the last five (5) years. The list shall include a contact name and telephone number for ALL delivered apparatus.

SPECIFICATIONS:

Where the following detailed specifications require specific brand names, model numbers dimension or capacities of components such as: axles, brakes, spring, suspension, frame, steering gear, drive line, universal joints, engine, transmission, alternator, batteries, air brake system, dash instruments, they have been carefully selected and specified for the service intended because of their reliability and availability of replacement parts on a local basis.

Components specified by brand name, model number, dimension, size or capacity are readily available to all manufacturers and/or potential proposers, and have been recommended by City Fleet Maintenance. Substitutes or alternates may be submitted with supporting documentation (ie. blueprints, drawings and specifications, etc.). Price quote should be made to the specifications as written.

OPTIONS:

Proposer must quote the options as listed in the specification. If proposer chooses to offer additional options other than those asked for by the City, such proposer must include the total cost impact of each optional item as individual entries to the option list.

PERFORMANCE BOND:

A performance bond in the amount of one-hundred percent (100%) of the total apparatus proposal shall be furnished before the contract has been signed by both parties. The City of Prescott desires the maximum financial protection possible, so the performance bond must be furnished by the apparatus manufacture and signed by a company officer. The warranty must also be signed by an authorized official representing the company receiving the proposal award.

The complete apparatus shall comply in every respect with the latest The Federal Motor Vehicle Safety Standards, Provisions of the Occupational Safety and Health Act and National Fire Protection Association ("NFPA" herein) 1901, which is hereby incorporated herein as if set forth at length.

The City Of Prescott reserves the right to increase quantities subject to acceptance by the proposer and mutual agreement on delivery times.

SERVICE REQUIREMENTS:

Each proposer shall show that he/she is in a position to render prompt service and to furnish replacement parts for said apparatus. Proposer shall have service capability within the State of Arizona OR APPROVE THE City's Fleet Maintenance personnel to perform warranty work.

Proposers shall state the location of their nearest service facility. Certified parts availability, service capability and total life cost will be given serious consideration

DRAWINGS AND WEIGHT:

All proposers must submit a top view, front view, left side view, rear view, and right side body view scale drawing(s) of the apparatus proposed, and include bumper swing turning clearance, curb-to-curb turning clearance, approach and departure angles, and equipment that is proposed to be furnished and to which the apparatus furnished under contract must conform. The proposal must also include laden and unladen weight, gross vehicle weight ("G.V.W.") and net vehicle weight.

Any item depicted on the drawings not specified as "Option", shall be considered as standard equipment. Furthermore, any item required for the apparatus to meet qualifications (I.E. NFPA) shall be considered as standard equipment. No further cost shall be imposed.

PRE-CONSTRUCTION CONFERENCE:

The successful proposer shall arrange a pre-construction conference with a representative(s) from their engineering group and the following employees from the City of Prescott: Two (2) employees from the Fire Department and one (1) employee from the Fleet Services Division. The purpose of this conference is to insure that the details of the apparatus' construction and the placement of items are clearly understood by both parties. The pre-construction conference shall be held at the factory of the successful proposer. The proposer shall arrange and provide lodging and transportation for City staff to attend the conference.

After the pre-construction conference a finalized drawing and a list of specification clarifications shall be provided and become part of the purchase contract and proposal documents.

INSPECTION TRIP:

The successful proposer will arrange for two (2) inspection trips to the factory; one (1) shall be at the pre-paint stage of construction and one (1) shall be at the pre-delivery stage. The inspection trip will allow for three (3) employees of the City of Prescott; two (2) from the Fire Department and one (1) from the Fleet Services Division to inspect the apparatus. This cost (including airfare, lodging and transportation) will be included in this proposal.

WARRANTY:

Unless otherwise stated in the Request for Proposals, the successful proposer shall supply the City of Prescott with a written warranty to cover a period of not less than one (1) year or the manufacturer's standard warranty period from the date the unit(s) is placed in service. In addition, the successful proposer will supply the City with all factory warranties from industrial component suppliers and shall assist City in obtaining warranty work from the original component manufacturer after the expiration of the one year warranty from the successful proposer.

This warranty will cover all parts and labor during this period with the exception of failure due to neglect, abuse or modifications not approved by the successful proposer.

During the warranty period all costs involved with the repair, such as transportation to and from the service facility, will be paid for by the successful proposer.

During the warranty period the successful proposer or its representative will complete inspection within (5) working days upon notification of issue and complete repairs within (10) working days unless otherwise agreed to by the City..

Successful proposer must warrant the entire vehicle, including cab, chassis, body, pump, tank, plumbing, and all systems. Split responsibility for the warranty will not be accepted.

Proposer shall provide all extended warranties that are standard with individual components. Warranties shall include, but not be limited to, the following:

- Engine
- Transmission
- Axles
- Fire pump

- Cab and Body
- Booster tank
- Paint

Copies of above warranties shall be included in the proposer's proposal for verification. The warranty must be signed by an authorized representative of the proposer.

DELIVERY AND TRAINING:

The successful proposer shall, at his expense, deliver the apparatus to the Fire Department. A factory trained and authorized delivery instructor shall then remain with the apparatus, or be scheduled within one week for three (3) days to train Fire Department personnel in the operation and preventive maintenance of the apparatus.

PROPOSAL PACKAGE:

A complete proposal package shall, at a minimum, contain one (1) original and four (4) copies - ALL the information to be included as part of the proposal package, including without limitation the following:

- 1) An accurate and legible proposal;
- 2) The name of the proposer, type of corporation (if any) and state of incorporation (if a corporation) or type of business organization if not a corporation, address, telephone number, FAX number (if any), Federal Tax Identification Number, and the name and title of the main contact person concerning this Request for Proposals. Should the address or telephone number of the main contact person be different from the proposer's address and telephone number, then the address and telephone number for the main contact person must also be listed.
- 3) Required drawings and wiring diagrams of the proposed apparatus;
- 4) Sales information;
- 5) Warranties;
- 6) User lists;
- 7) Location of manufacturing and assembly facilities;
- 8) Evidence of ability to construct the apparatus as specified in the Request for Proposals, including without limitation evidence of competent construction of such apparatus in the past (10 or more) and adequate parts inventories;
- 9) Evidence of a competent service center within 300 miles of the City of Prescott as measured from City Hall. Said evidence must show the service centers are capable of prompt and effective service to the apparatus as proposal;
- 10) Number of company (proposer) employed personnel available to provide service backup to the apparatus as proposal;
- 11) All required certifications, including without limitation, engine installation, parts and service availability, model and design service times, apparatus will meet all NFPA standards, fastener certifications, weights certifications, performance testing certifications, and any other certifications required by City or any law, rule, or regulation;
- 12) Performance bonds as required;
- 13) Product liability insurance as required;
- 14) Worker's compensation insurance as required;
- 15) Firm build times for each apparatus;
- 17) All other items, documents, and actions required by the Request for Proposals.

Any materials or work mentioned in the specifications and not shown on the drawings, or shown on the drawings and not mentioned in the specifications shall be of the same effect as if shown or mentioned in both.

Omissions from the drawings or the specifications of the materials or details of work which are manifestly or obviously necessary to carry out the intent of the drawings and specifications or which are customarily furnished or performed, shall not relieve the proposer of his responsibility for furnishing such omitted materials or performing such omitted work; but shall be furnished or performed as if fully shown or described in the drawings of specifications.

The award of the contract, if awarded, will be to the most responsive and responsible proposer best meeting all the requirements set forth in the Request for Proposals including, without limitation, the total cost to City over the life of the apparatus.

QUALITY AND WORKMANSHIP:

The design of the apparatus shall embody the latest recognized automotive engineering practices used in the industry. The workmanship shall be of the highest quality in its respective field. Special consideration shall be given to the following points: Accessibility of the various units which require periodic maintenance, ease of operation and symmetrical proportions. Construction shall be rugged and ample safety factors shall be provided to carry the loads specified and to meet both on and off road requirements. Welding shall not be employed in the assembly of the apparatus in a manner that shall prevent the ready removal of any component part for service or repair. All steel welding shall follow American Welding D1.1-96 recommendations for structural steel welding and aluminum standard.

CERTIFICATIONS:

In as much as the apparatus described in these specifications will be subjected to emergency service for a period estimated to be in excess of twenty (20) years, an authorized representative of the proposer must certify the following:

- That parts and service will be available for this apparatus for a minimum of five (5) years.
- That the unit proposed is not a prototype unit and is of an established model and design that has been in fire service for a minimum of three (3) years.
- That the proposed apparatus will meet or exceed all applicable requirements of NFPA Bulletin Number 1901, 2003 edition or the latest in effect.
- Fastener Certification: Pursuant to Public Law Number 101-592, proposer is to provide fastener certification for all critical components of the apparatus. These items shall include: steering, brakes and suspension systems.
- Any other certification required by City or any applicable law, rule or regulation.

ENGINE INSTALLATION CERTIFICATION:

The fire apparatus proposer shall provide, **at the time of proposal with the proposal package**, a letter from the **engine manufacturer** stating they approve of the engine installation in the proposer's chassis.

The approval of the engine installation must be at full horsepower rating in a continuous duty application under all operating conditions (10 degrees Fahrenheit to 120 degrees Fahrenheit), including road and pump. No type of automatic horsepower reduction features will be allowed.

There will be no exception to any portion of the engine installation certification or any other required certification.

PERFORMANCE TESTS AND REQUIREMENTS:

A road test shall be conducted with the apparatus loaded as per NFPA recommendations unless otherwise specified and the continuous run of ten miles or more shall be made during which time the apparatus shall show no loss of power or overheat. The transmission, drive shaft, or shafts, and rear axles shall run quietly and be free from abnormal vibrations or noise throughout the operating range of the apparatus. The apparatus, when loaded, shall have not less than twenty-five percent (25%) or more than forty-five percent (45%) of the weight on the front axle and not less than fifty-five percent (55%) nor more than seventy-five (75%) on the rear axle.

The successful proposer shall furnish a valid Weights Certificate showing weights on front axle, rear axle, individual of the four corner weight load, and total weight for the completed apparatus at the time of delivery with water tank full, but without personnel, equipment or hose.

Per NFPA 1901 Specifications, the apparatus must be capable of the following:

Accelerating to 35 miles per hour from a standing start within twenty-five (25) seconds on a level, concrete highway without exceeding the maximum no load govern RPM of the engine.

From a steady speed of fifteen (15) mph, the vehicle shall accelerate to a true speed of thirty-five (35) mph within thirty (30) seconds without moving the gear shift lever.

The fully loaded vehicle shall be capable of obtaining a minimum top speed of not less than fifty (50) mph on a level, concrete highway with the engine not exceeding it governed RPM.

The apparatus shall be able to maintain a speed of twenty (20) mph on any grade up to and including six percent (6%) grade.

The service brakes shall bring the **fully** loaded apparatus to a completed stop from an initial speed of twenty (20) mph within a distance not exceeding thirty-five (35) feet of level, concrete highway.

FAILURE TO MEET TESTS AND REQUIREMENTS:

In the event the apparatus fails to meet the test requirements of these specifications on the first trials, second trials may be made at the option of the proposer within thirty (30) calendar days of the first trials. Such trials shall be final and conclusive, and failure to comply with these requirements shall be cause for proposal rejection. Failure to make such changes as the Fire Chief of the Prescott Fire Department, or his designated representative, may consider necessary to conform to any clause of these specifications within thirty (30) calendar days after notice is given to the proposer to make such changes shall also be cause for rejection of the proposal. Permission to keep or store the apparatus in any building owned or occupies by the purchaser or its use by the Prescott Fire Department during the above specified period with the permission of the proposer shall not constitute acceptance.

DELIVERY:

Each unit must meet all proposal specifications and be accepted in writing by City before it is considered delivered. Damages, if incurred, may be applied by City to lower the price of the apparatus. The date of delivery may be changed by the parties in writing. Should no date for delivery be set in the delivery order for additional units then the delivery date shall be no later than two hundred (250) days from the date of the placement of the order by City.

If, after apparatus is submitted to City for acceptance, the unit is found to have deficiencies, it shall be the dealer's responsibility to pick up the apparatus, make the necessary corrections and re-submit the apparatus for re-inspection and acceptance without any additional cost to the City of Prescott. Payment will not be made until the defect(s) or deficiencies are corrected, and the apparatus accepted as ready for service.

The successful proposer shall provide a competent delivery engineer who will instruct three crews per apparatus delivered in the proper operating techniques, care and maintenance of the apparatus delivered. This will be done at the assigned station or other designated location as determined by the Prescott Fire Department. In addition, a minimum of eight hours of training shall also be provided to Fleet Service Division personnel. All required equipment, manuals, charts and books shall accompany the apparatus at the time of delivery.

The successful proposer must supply a minimum of two complete operation and maintenance manuals, covering the complete apparatus as delivered and shall include an accurate "as wired" wiring diagram for each apparatus.

One parts manual shall also be provided for each apparatus which will include an overall side view vehicle layout keyed to service repair parts to assist in spare parts selection and identification.

One engine service and overhaul manual shall be provided for each apparatus.

LIQUIDATED DAMAGES:

PROPOSER AGREES THAT IF PROPOSER BREACHES THE PROPOSAL REQUIREMENTS FOR DELIVERY OF THE UNITS REQUIRED BY THE REQUEST FOR PROPOSALS DOCUMENTS ON THE DATE CALLED FOR THEREIN, SUCH DELAY WILL SERIOUSLY AFFECT THE PUBLIC SAFETY AND WELFARE AND THE OPERATIONAL CAPABILITIES OF THE PRESCOTT FIRE DEPARTMENT.

PROPOSER AND CITY AGREE IT WOULD BE IMPRACTICAL OR EXTREMELY DIFFICULT TO DETERMINE DAMAGES SUFFERED BY CITY IN THE EVENT OF SUCH A BREACH BY PROPOSER, AND CITY AND PROPOSER THEREFORE AGREE THAT IN THE EVENT OF SUCH A BREACH PROPOSER SHALL PAY TO CITY THE SUM OF TWO HUNDRED FIFTY DOLLARS (\$250) PER DAY FOR EACH UNIT PROPOSER FAILS TO DELIVER BY THE DATE AGREED UPON AT THE PRECONSTRUCTION CONFERENCE.

PROPOSAL FOR FIRE APPARATUS

DATE: _____

TO: City of Prescott, Fire Department
2086 Willow Creek Rd.
Prescott, AZ 86305

FROM: _____

The Above Manufacturer Agrees to Provide the City of Prescott Fire Dept:

For the Sum of: (inclusive of all taxes and delivery charges):

_____ \$ _____

Quotation Shall be Valid for: _____ Days

Delivery Shall Be F.O.B. Fire Department Headquarters, Prescott, AZ

Delivery Time in Calendar Days (from the notice of date of award):

Payment Terms: _____

Location for Authorized Service:

Phone Number: (____) _____

Authorized Signature: _____

Title: _____

Company: _____

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SECTION I - CHASSIS

CUSTOM FIRETRUCK CHASSIS:

The chassis shall be designed and manufactured by a custom chassis manufacturer. Wheelbase of this vehicle shall be approximately 190". The chassis shall be a medium length tilt cab with a minimum ten inch (10") raised roof, and chassis with four doors.

EXCEPTION: _____

GROUND CLEARANCE:

Completed apparatus shall be able to negotiate a approach angle of 14.5 degrees. Completed apparatus shall be able to negotiate a departure angle of 14.5 degrees. All equipment mounted to front bumper shall go through front of bumper, rather than under it, in order to maintain adequate ground clearance. Final placement shall be determined at the pre-engineering conference.

EXCEPTION: _____

CHASSIS FRAME:

The frame shall be designed to industry standards. The manufacturer shall provide a lifetime warranty to the original purchaser of the chassis.

EXCEPTION: _____

FRONT BUMPER:

A heavy-duty steel, painted the same color red as the cab. The front bumper shall be the full width of the cab, and extend at least 12" ahead of the cab. The bumper shall have a hose well (diamond plate hinged cover) that is able to hold 100' of 1 3/4" single jacket hose and fog nozzle.

EXCEPTION: _____

TOW HOOKS:

Two (2) tow hooks shall be provided. Hooks must be a removable bolt on type with a minimum of 90,000 pound tensile strength directly to the front frame extension under the bumper.

EXCEPTION: _____

FRONT AXLE:

The front axle shall be an ArvinMeritor 20,000-lb. capacity and at least a 45 degree cramp angle with the tires selected.

EXCEPTION: _____

COMPLY
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AXLE SEALS:

The front axle shall be equipped with oil bath type premium seals. The spindles shall be equipped with transparent covers for oil level inspection.

EXCEPTION: _____

FRONT SPRINGS:

Front springs shall have a capacity at ground of 20,000 lbs.

EXCEPTION: _____

SPRING PINS:

All front spring pins shall have grease fittings for lubrication.

EXCEPTION: _____

FRONT SHOCKS:

Double acting hydraulic shock absorbers are to be installed.

EXCEPTION: _____

FRONT SUSPENSION:

The entire front suspension shall be designed for heavy duty custom fire apparatus.

EXCEPTION: _____

STEERING:

An integral hydraulic power steering gear shall be provided, with a gear driven pump. Steer system shall be rated to the front GAWR of the apparatus. A turning radius report shall be submitted with proposal package and report shall reflect turning radius with tires proposal for this apparatus.

The minimum steering cramp angle shall be 45°.

The steering gear shall be a Ross HFB-70 or TAS-85, full time integral type power steering or pre-approved equal to a Ross power assist cylinder shall be provided to aid in steering the apparatus.

EXCEPTION: _____

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STEERING WHEEL:

The steering wheel shall be approximately 20 inches in diameter and shall be padded. The steering column shall be a tilt and telescopic type. The steering column shall contain the following:

- Turn signal switch
 - Headlight dimmer switch
 - Electric horn
 - 4-way flasher activator
- The steering column shall be completely enclosed

EXCEPTION: _____

FRONT AXLE BRAKES:

The front axle shall have ArvinMeritor (Rockwell) EX225 disc type brakes with 17" vented rotors and automatic slack adjusters.

EXCEPTION: _____

SLACK ADJUSTERS:

Each axle shall be equipped with automatic slack adjusters (ASA) to provide optimum brake performance. Each brake chamber shall be equipped with a Bendix "SureStroke" adjustment indicator. Adjustment indicator shall be installed and set to proper slack adjuster adjustment.

EXCEPTION: _____

REAR AXLE:

The rear axle shall be an ArvinMeritor single rear axle with a 27,000 lb. capacity for the fire service.

EXCEPTION: _____

REAR AXLE SEALS:

The rear axle shall be equipped with oil bath type wheel end seals.

EXCEPTION: _____

VEHICLE TOP SPEED:

The rear axle shall be geared for a top speed of approx. 70 mph at engine governed RPM.

EXCEPTION: _____

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REAR SUSPENSION:

The rear suspension shall have a rating of 27,000 lb. capacity at ground with heavy duty shock absorbers installed on the rear axle. Elliptical leaf spring type pins that shall be drilled, and tapped for grease fittings. Rear springs shall be mounted using needle bearing spring pins. Spring pins shall be shielded from overflow of tank. Spring pins shall be capable of being removed without removing or modification to the body.

EXCEPTION: _____

REAR AXLE BRAKES:

The rear brakes shall be 16-1/2" X 8.625", S-Cam, air operated heavy duty brakes. Option can be replaced by ArvinMeritor (Rockwell) ADB-1560 disc type brakes with 15" vented rotors and automatic slack adjusters.

EXCEPTION: _____

FRONT TIRES:

The front tires shall be 315/80R22.5, all weather tread, tubeless radial tires with a capacity to meet or exceed the G.A.W.R. of the front axle, and vehicle speed rating.

EXCEPTION: _____

REAR TIRES:

The rear tires shall be 12R22.5, all weather tread, tubeless radial tires. The tires will have the capacity to meet or exceed the rear axle GAWR and speed rating.

EXCEPTION: _____

ALUMINUM RIMS:

All wheels shall be Alcoa polished aluminum 8.25x22.5 with a capacity to meet or exceed the G.V.W.R. of the front axle. Each rear wheel shall be supplied with chrome lug nut covers, and have chrome "hard hat" axle cover. Front wheels to have appropriate chrome dress for hub, and each wheel shall be supplied with chrome lug nut.

EXCEPTION: _____

BRAKE HOSES:

Brake hoses to be black textile braid covered stall reinforced or wire braided air lines with brass fittings. Braided hoses shall be between axle and frame connection.

EXCEPTION: _____

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FRONT WHEEL SERVICE BRAKE LOCK-UP SYSTEM:

A front wheel service brake lock-up system shall be installed which will apply both the front air and rear spring brakes upon application of the PP-1 push-pull valve in the cab. Lever operated control valve to disengage system shall be in reach of the driver.

EXCEPTION: _____

EMERGENCY/PARKING BRAKES:

Spring actuated chambers will be installed on the rear axle, with control valve and indicator light in cab.

EXCEPTION: _____

ABS BRAKE SYSTEM:

The ABS shall provide anti-lock braking control on both the front and rear wheels. ABS system shall be a digitally controlled system that utilizes microprocessor technology to control the anti-lock braking system.

Each wheel shall be monitored by the system.

An air system diagram and manual showing all valves and chambers shall be furnished.

EXCEPTION: _____

1200ci AIR RESERVOIR:

One extra 1200ci air tank will be provided on the air horn system. A minimum of three (3) air reservoirs shall be furnished to provide the air capacity.

EXCEPTION: _____

AIR HORN:

Dual Grover Stuttertone 21" air horns shall be recessed in the front bumper. Air horn shall be actuated by a weatherproof foot switch on the driver's left side floor, push button on the pump panel, and by the steering column with a switch on the overhead switch panel for air or electric horn. Large (possibly 3/8 or 1/2) supply line coming in and teeing off to two Grover brand solenoid valves so each trumpet has its own valve.

A pressure protection valve shall be installed in-line to prevent loss of air in the air brake system. Air horns shall not operate when the air pressure is below 85 psi for safety of braking ability.

EXCEPTION: _____

AIR SYSTEM WARNING:

Dual air system with dual gauges, warning light, and buzzer. A spring actuated parking brake shall be built into the rear axle brakes with a manual control and warning light in the cab. These

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shall automatically apply in case of air system failure. A mechanical means of releasing the spring brakes shall be provided in the event of total loss of air pressure.

EXCEPTION: _____

AIR COMPRESSOR:

A quick build up system charged by at least a 16 CFM compressor and including a rapid build-up feature shall be provided.

EXCEPTION: _____

SPLIT SYSTEM:

The brake system shall be a split system. One (1) system serving the rear brakes and one (1) system serving the front brakes. The system shall also modulate the amount of air so the spring brakes will apply in direct relationship to the amount of pressure applied to the treadle valve.

EXCEPTION: _____

AIR DRYER:

The air system shall include a heated air dryer. ROCKWELL/WABCO System Saver 1200 air dryer. The dryer shall have a capacity of at least 30 CFM of airflow. Air dryer shall have a spin-on desiccant cartridge for ease in servicing the dryer desiccant.

EXCEPTION: _____

MANUAL DRAINS W/LANYARD:

The chassis air tanks shall be supplied with manual pull type drain valves with lanyards.

EXCEPTION: _____

AIR INLET / OUTLET:

An outside air system inlet/outlet connection shall be provided and mounted in the driver's cab step area. This connection shall be clearly labeled as to the function.

EXCEPTION: _____

ENGINE INSTALLATION CERTIFICATION:

The fire apparatus manufacturer shall provide, **at the time of proposal with the proposal package**, a letter from the **engine manufacturer** stating they approve of the engine installation in the cab and chassis offered by the proposer.

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The approval of the engine installation must be at full horsepower rating in a continuous duty application under all operating conditions (10 degrees Fahrenheit to 120 degrees Fahrenheit), including road and pump. No type of automatic horsepower reduction features will be allowed.

EXCEPTION: _____

DIESEL ENGINE:

The chassis shall be powered a diesel engine. Either a Caterpillar C-9 with minimum rating of 1350 lb. ft. of torque, or a Cummins ISM 385 with a minimum rating of 1350 lb. ft. of torque.

EXCEPTION: _____

EMERGENCY SHUT DOWN:

An electrical fuel shutdown control, together with the ignition switch, shall be furnished. An air actuated emergency shut off switch shall be provided. Activation shall shut off the supply of air to the engine intake, by means of a shutter, reset shall be manual.

EXCEPTION: _____

ENGINE WARRANTY:

The engine shall have the standard 5-year warranty.

EXCEPTION: _____

MANUFACTURER ENGINE CERTIFICATION:

Vendors shall provide a current installation certification by the engine manufacturer for the cab proposed.

EXCEPTION: _____

ENGINE SOFTWARE:

All engine computer soft-wear and access wires/plugs shall be provided for the maintenance of the engine.

EXCEPTION: _____

ENGINE BRAKE:

A Jacobs engine brake, or Caterpillar compression brake shall be supplied for the engine.

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The Driver's dash shall include an OFF/LOW/HIGH position brake control switch. The switch shall be located within easy reach of the driver on the left side of the engine cover. The brake lights shall illuminate when the engine brake is in operation.

Activation of the engine brake shall occur at zero throttle position. The transmission ECU shall be programmed to operate in the pre-select downshift mode to maximize the retarding power of the engine brake.

The engine brake shall be inoperative when the chassis is in pump mode.

EXCEPTION: _____

RETARDER:

The apparatus shall be equipped with a Telma Retarder of sufficient size to be compatible with the apparatus GVW and engine horsepower rating.

The retarder shall be mounted to the differential/drive shaft and be equipped with a device to disconnect the retarder operation when the vehicle speed is below 5 mph. The retarder shall be operated with the first and second stage activated by full release of the foot accelerator, and the third and fourth stage activated by the service brake pedal. Controls shall be mounted on the dash on the driver's side. The controls shall allow the driver to select the amount the retarder applies braking, and the ability to shut down the system. All necessary equipment to interface with ABS shall be supplied.

EXCEPTION: _____

BATTERY ACCESS:

Access to the batteries for routine maintenance and inspection shall be provided by a hinged cab step or by tilting the cap.

EXCEPTION: _____

BATTERY BANK:

A single battery system will be provided, utilizing four (4) Optima, Yellow top deep cycle batteries. Each battery will have a rating of 750 CCA at 32 degrees F. The total capacity of the system will be rated at 3000 CCA.

EXCEPTION: _____

BATTERY JUMPER ACCESS:

Two jumper pins will be provided in the driver's foot well for jumping the batteries.

EXCEPTION: _____

BATTERY COMPARTMENTS:

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Batteries shall be placed on non-corrosive mats and be stored in well ventilated compartments located under the cab. Heavy-duty battery cables shall be used to provide maximum power to the electrical system. Cables shall be color coded. Battery terminal connections shall be coated with anticorrosion compound. Battery solenoid terminal connections shall be encapsulated with semi-permanent rubberized compound

EXCEPTION: _____

AUTO-EJECT RECEPTACLE:

For the battery charger, one (1) Kussmal Auto Eject receptacle shall be provided - circuit interruption type. The one (1) receptacle shall be the auto-eject 20 WP and shall be installed over the left front wheel well.

The auto-eject shall be connected to the vehicle start buttons. So, when the engine is started the auto-eject drives the shoreline connection from the inlet.

The electrical inlet shall include a spring loaded cover to prevent water from entering the receptacle when the shoreline is not connected. The electrical receptacle shall be a 120-volt, 20 amp (NEMA 5-20P) and be wired to the battery charger with no less than 12-gauge wire properly supported and shielded from injury.

EXCEPTION: _____

BATTERY CHARGER:

A Kussmal Autocharge, with internal battery saver shall be provided. A charge indicator shall be provided to show if charger is operating. The battery saver circuit shall be capable of supplying up to ten (10) amps for external loads such as hand light or auxiliary radio batteries. The battery charger shall be wired to the shoreline power inlet, and shall activate automatically when the power is connected.

EXCEPTION: _____

AIR CLEANER:

The cab shall have an engine dry type air cleaner with pre-cleaner as recommended by the engine manufacturer. The condition indicator shall be a dial-type gauge, similar in design and appearance to the other dash gauges or an indicator light, if cab is normally so equipped. Air shall be drawn from outside of the engine cowling. The air compressor intake shall be drawn off of the main air cleaner. No auxiliary compressor air cleaner shall be permitted. Air cleaner mounting to be readily accessible for easy of service.

EXCEPTION: _____

ENGINE FAST IDLE:

The chassis must be equipped with an Electronic Idle Control (EIC) for the electronic engine. Preset speed is factory adjustable. The fast idle provision will only function when the parking

brake is set and the transmission is in neutral. A switch to control fast idle shall be installed on the driver's side of the cab.

EXCEPTION: _____

ENGINE COOLANT FILTER:

A pre-charged spin-on corrosion inhibitor/water filter shall be installed in the cooling system. Shut-off valve shall be supplied on both sides of the filter to facilitate element changing without loss of cooling system fluid.

EXCEPTION: _____

COOLANT:

The coolant system shall contain a coolant mixture to keep the coolant from freezing to a temperature of -30 degrees F.

EXCEPTION: _____

COOLANT HOSES:

With the exception of the cab heater core, the engine cooling system shall have premium silicon hoses. All clamps to be constant torque silicon clamps.

EXCEPTION: _____

AUXILIARY ENGINE COOLER:

The cooling system shall have an auxiliary engine cooler. The apparatus shall have the fire pump water circulated to the cooler from a valve located on the apparatus pump panel.

EXCEPTION: _____

ENGINE COOLANT RADIATOR:

The engine coolant radiator shall have sufficient capacity to perform under the engine manufacturer's installation requirements.

The radiator shall contain an integral coolant de-aeration tank. This tank shall be designed to remove entrapped air or gases from the coolant side of the radiator. The bottom tank of the radiator shall have a drain valve at the lowest point of the cooling system at the lowest point to permit complete flushing of the coolant from the system.

The top tank of the radiator shall have a sight glass for coolant level inspections, and an electronically controlled low coolant indicator light mounted on the instrument panel.

The coolant system shall contain an ethylene glycol and water mixture to keep the coolant from freezing to a temperature of -34 F degrees.

The radiator system shall be pressurized with a cap rated per the cooling system's requirements of the specific engine manufacturer. A coolant recovery/overflow tank will be provided.

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Cooling air shall be drawn in by a heavy-duty fan, shrouded by recirculation shields that permit only fresh cool air through the radiator.

Radiator shall have nothing mounted in front that can hinder air flow.

Radiator shall be mounted in a manner to prevent the development of leaks caused by twisting or straining when the apparatus operates over uneven ground.

Radiator core shall be compatible with commercial antifreeze solutions.

Cooling system shall exhibit rapid warm-up without use of radiator shutters. The radiator and engine cooling system shall be capable

of maintaining the engine operating temperature while in full operation for four (4) hours with an ambient temperature of 120 degrees Fahrenheit.

In the event the apparatus is delivered during cool weather, the City of Prescott reserves the right to retest for cooling requirement during the month of July following the delivery. In the event the apparatus fails the cooling requirement, the apparatus supplier will be responsible to make all

necessary corrections to bring the apparatus into conformity with the cooling specifications.

EXCEPTION: _____

FAN CLUTCH:

A high efficiency engine fan shall be encompassed with a radiator shroud to provide the proper airflow from the fan blade to the radiator. A fan clutch will be installed to limit the wear on the fan belts at speeds. The fan clutch will be controlled automatically, and by a manual switch mounted on the driver's side of the dash. Fan clutch shall be engaged when the apparatus is in the pump mode.

EXCEPTION: _____

FUEL SHUT-OFF VALVE:

A fuel shut-off valve shall be installed in the fuel draw line at the primary fuel filter to allow the fuel filter to be changed without loss of fuel to the fuel pump.

EXCEPTION: _____

EXHAUST SYSTEM:

An aluminized stall system for long life with stainless steel flex, and chrome plated tailpipe. The tailpipe will be mounted in the vertical position. The exact location will be determined at the pre-construction conference.

The exhaust pipe shall be wrapped with 1500 degree, fiberglass tape with vermiculite. The wrap shall extend from the engine turbo charger to just below the frame rail. A heat deflector shield shall be provided where the exhaust is routed under any compartments.

EXCEPTION: _____

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TRANSMISSION:

The transmission shall be either a Caterpillar CX-31 or a Allison 4000EVS automatic transmission with electronic controls. A push button shift control, backlit for night use, shall be provided.

The transmission shall be equipped with a lock-up control circuit that will automatically shift the transmission into 4th gear lock-up when the pump is shifted into gear.

The transmission shall be programmed for six speeds.

EXCEPTION: _____

TRANSMISSION COOLER:

An automatic transmission cooler shall be provided. Either an auxiliary type or radiator tank type. The transmission cooler shall be of sufficient size to maintain the operating temperature of the transmission.

EXCEPTION: _____

TRANSMISSION SOFTWARE:

All transmission soft-wear and wires/plugs shall be provided for the maintenance of the transmission.

EXCEPTION: _____

DRIVELINES:

Heavy-duty tubular drive shafts with Spicer 1810 series Glide Goat universal joints in adequate size to match the engine, transmission and pump transmission shall be provided. The assembly shall be axially straight, concentric with axis and dynamically balanced after the pump is installed. A minimum of 4" diameter and .134 tube wall thickness.

The drive lines are to conform to "Spicer Drive Shaft Installation Techniques" pamphlets number J3311-DSD 5/94

Drive shaft shall be completely balanced with new style cap type u-joints for ease of maintenance. Each drive shaft shall have a slip joint.

EXCEPTION: _____

FUEL TANK:

The fuel tank shall have a capacity of at least 50 gallons (US) and be D.O.T. and NFPA certified. Fuel tank shall be manufactured with 12 gauge, or stronger steel. Fuel tank seams

shall be properly baffled with seams welded. The fuel gauge sending unit shall be mounted to allow removal without disturbing tank mounting tank shall be equipped with a manual shut-off valve for easy accessibility.

A primary and a secondary fuel filter shall be furnished and installed as recommended by the engine manufacture. Shut off valves for ease of filter changes shall be supplied.

Fill inlet shall be recessed on the driver's side, aft of the rear wheels, covered with a brushed aluminum, or stainless steel hinged, spring loaded cover and marked "Diesel Fuel Only"

EXCEPTION: _____

FIRETRUCK CAB:

The cab design must be such to provide safe and efficient transport of emergency personnel. The cabin shall be designed with four (4) side doors of the largest size possible and with a grab handle and step arrangement to provide ease of entry and egress. The cab shall provide room for seating for at least six (6) personnel. Cab shall have at least a 10" raised roof.

The cab will be a full tilt MFD design. An electric/hydraulic power cab tilt mechanism shall raise the cab to approximately 45 degrees to allow power train service and repair. The engine shall also be removable when the cab is tilted. Provisions for checking the engine and transmission oil and coolant (over flow bottle will be accepted), shall be provided and must be accessible without tilting the cab. The cab shall have no interior bulkheads.

Step assembly shall be such as to allow a maximum of 18 inches between steps to include ground to first step. Each step surface shall be a minimum of 160 square inches. The step surface shall be constructed out of a non-slip material that shall also be self-draining.

EXCEPTION: _____

CAB DOORS:

All four cab doors shall be furnished with full roll down windows. All doors shall have interior door latches and exterior keyed door lock controls. All doors shall be keyed alike. The doors shall be equipped with appropriate safety interlocks to prevent accidental locking the doors when closed. The doors shall fully enclose the access steps to prevent ice, dirt, and debris build up on steps. Cab and crew cab doors shall be equipped with automotive type rubber continuous perimeter bulb seal on the door opening to ensure a weather tight fit.

EXCEPTION: _____

REMOTE KEYLESS ENTRY SYSTEM:

Custom cab manual door locks shall be equipped with a POP lock electric actuated door locking system. All cab doors shall be locked and un-locked from a numeric key pad located adjacent to

the drivers and front passenger doors. All doors shall have a manual key operated override capability in the event of a failure of the electric lock system. All cab doors shall be keyed alike.

EXCEPTION: _____

DOOR INTERIORS:

Flush mounted, paddle type door handles shall be provided on the interior cab doors. This is done to decrease the likelihood of inadvertent door opening. Each door shall have on the interior a steel non-slip grab handle and window regulator handle (front doors may have a composite grab handle installed on the "A" pillar). The door hinges shall be stainless steel piano type with a .25" pin.

EXCEPTION: _____

DOOR WARNING LIGHTS:

Cab and crew cab doors shall have a 4" red recessed flashing LED light to operate when the door is opened. The light is to be mounted in the outside lower corner of the inside door panel. Each door shall have reflective chevron taping (color to be red and white).

EXCEPTION: _____

CAB LIFT AND LOCK:

Cab shall be isolated from the chassis inputs by four (4) rubber load cushions and shall be tilted by a hydraulic pump connected to two (2) cab lift cylinders. Cab shall then be locked down by a 2-point automatic locking mechanism that actuates after the cab has been lowered. A safety lockout shall be installed to prevent inadvertent lowering of the cab. The hydraulic pump shall be electrically operated and have a manual override.

EXCEPTION: _____

WINDSHIELD:

The cab windshield shall be curved, two piece, constructed of tinted automobile safety plate. All federal safety requirements for vision must be met by the cab windshield. The cab windshield shall be installed utilizing modern automotive techniques, which include bonding to the cab sheet metal with a urethane adhesive, and then trimmed in rubber. Economical windshield replacement glass shall be readily available.

EXCEPTION: _____

CAB GLASS:

The cab and crew door glass shall be tinted, tempered glass. Each glass shall be fully retractable within the door and move within felt lined, fully reinforced channel.

EXCEPTION: _____

HANDRAILS:

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Four (4) vertical stainless steel or extruded aluminum grab handle shall be installed to the rear of each door. **Rubber inserted handrails are not acceptable.**

EXCEPTION: _____

CAB SEATING:

The driver's seat should be fully adjustable air ride type with a high back design. A storage compartment shall be provided under the driver's seat.

The officer's seat shall be a fully adjustable air ride, split back type to accommodate the recessed air pack brackets. The bracket shall accommodate an ISI 4500psi low profile air bottles with SCBA walk away brackets and storage compartment beneath the seat.

Two split back type seats to accommodate the recessed air pack brackets with SCBA walk away brackets. The brackets shall accommodate ISI 4500psi low profile air bottles. These seat modules shall be installed in the crew area facing the rear, directly behind the driver's and officer's seats. The seat bottoms will be of the flip up design position to allow for the maximum clearance for egress.

Mounted in backrest shall be a SCBA holder with a "knock-down" bracket and collision restraint holding strap. The bracket shall be adjustable up and down by unbolting, relocating and re-bolting in desired position. The seats shall also be designed so they can be easily moved forward or rearward to fit different size SCBA bottles. Moving the SCBA cavity or the entire seat shall be accomplished by unbolting, relocating and re-bolting in the desired location. Provided with the SCBA seats, shall be back rest inserts which cover the SCBA cavity. The insert covers shall be padded and covered. A total of three (3) inserts covers shall be provided.

Two additional high back seats will face forward and be mounted in the middle of the rear cab wall.

Three-point seat belts with automatic retractors will be furnished for each seat. Extension shall be provided with the seat belt so the male end can be easily grasped and the female end easily located while sitting in a normal position.

EXCEPTION: _____

CAB INTERIOR:

All upholstery shall be upholstered in heavy-duty reinforced gray or black material. Padded and insulated headliner will be provided. All surfaces of the interior shall remain cool to the touch regardless of operating conditions.

The cab instrument panel shall be padded and covered with heavy duty leather grain vinyl, or ABS plastic, resistant to oil, grease and mildew.

Door panels shall be covered with a high impact black ABS plastic or vinyl padded. The cab dash fascias shall be a wrap-around design to provide easy access of controls and shall be constructed out of high impact ABS plastic. The headliner shall be installed in both forward and rear cab sections. Headliner material shall be padded vinyl covered metal. A sound barrier shall be part of its composition. Cab headliner shall provide easy access for servicing electrical wiring or for other maintenance needs without removing the entire unit.

The engine tunnel shall be tapered at the top to allow for more driver and passenger elbow room. Therefore, the tunnel shall be 24" above the cab floor (plus or minus 6 inches) and shall

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not be more than 42 inches wide at its widest point. The engine hood shall be insulated for protection from heat and sound. The noise insulation keeps the DBA level within the limits stated in the current NFPA series 1900 pamphlet.

EXCEPTION: _____

SUN VISORS:
Two padded sun visors with flip down arms shall be installed.

EXCEPTION: _____

MAP POCKETS:
The inner panel of the front doors will have map pocket built into the panel.

EXCEPTION: _____

GLOVE BOX:
A glove box and anti-slip handrail will be provided on the officer's side.

EXCEPTION: _____

CAB FLOOR:
The cab floor shall be covered by a reinforced rubber mat with sound barrier. The edge molding will be stainless steel. The cab shall be insulated in a manner to reduce noise levels inside the cab. The cab interior sound levels shall not exceed NFPA Standards in all cab seat positions.

EXCEPTION: _____

AUXILIARY FANS:
Two auxiliary windshield defogger fans will be installed.

EXCEPTION: _____

AIR CONDITIONING:
An air condition with a minimum of 45,000 BTU with an overhead condenser shall be provided. It shall be capable of cooling the entire cab area during peak summer months.

A heater/defroster will be provided. The heater ducts shall be vented in a manner to provide heat directed towards the officer and the driver. The defroster ducts shall be designed to provide maximum defrosting capabilities for the windshield. Adjustable defroster louvers shall be provided for directing air flow to the side cab door windows. Heater defroster controls shall be located on the cab dash within easy reach of the driver. Fan shall operate only when the

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ignition switch is "ON". The heater core shall be plumbed with non-silicon hoses, to prevent coolant odor in the cab.

A high performance air conditioning system shall be furnished inside the cab and crew cab. A compressor shall be installed on the engine of adequate CFM to meet the performance specification. A roof mounted condenser with adequate BTU to meet the performance specification shall be installed on the cab roof. Condenser mounting below the cab or body is not acceptable. Evaporator unit/s shall be installed, so air is directed to the front and rear cab. The evaporator unit/s shall have an adequate BTU rating to meet the performance specifications and shall operate only when the ignition switch is "ON". Cab and crew cab walls shall be insulated.

EXCEPTION: _____

MAP BOX:

Two (2) map boxes shall be provided. Each map box shall be 13" long, 9.25" high and 12" wide. One box shall be divided into three (3) bins, open from the top. Each bin shall be 9.25" high, 4" deep and 12" wide. The second box shall be undivided. The map box shall be constructed of .125" aluminum and shall be painted to match the cab interior. Alignment and direction of the map box shall be determined at the pre-engineering conference

EXCEPTION: _____

CAB EXTERIOR FEATURES:

Electric windshield wipers shall be provided that meet FMVSS and SAE requirements. One control shall operate both wipers. The wiper control shall be two (2) speeds (high and low) and feature an intermittent control. The control shall also have a "return to park" provision (toward center of cab). Each wiper shall be equipped with a washer that is actuated by the wiper control. Wash reservoir shall be able to be filled without raising the cab.

EXCEPTION: _____

MIRRORS:

Mirrors shall be mounted to the front of the cab (above the windshield will be accepted). The school bus style mirrors shall be stainless steel and to include the brackets and large spot (round) mirrors. Both flat mirror heads shall be adjustable by an electric remote control switch inside the cab within easy reach of the driver. Convex mirror heads shall be adjusted manually. The mirror heads shall also be heated with the control within easy reach of the driver.

EXCEPTION: _____

GRILLE:

Large polished stainless steel radiator grille with rock guard screen on the cab front.

EXCEPTION: _____

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FRONT BUMPER:

The front bumper shall be stainless steel, and shall extend far enough to incorporate a front mounted pre-connected hose box with room enough for 100ft of single jacket 1 3/4" hose. The hose box shall have a diamond plate cover. The gravel shield shall be aluminum tread plate.

EXCEPTION: _____

MANUAL, CHASSIS PARTS:

A manual for the chassis shall be provided with the completed unit. Part descriptions shall be of the expanded drawing type showing all component parts. The manual shall be specifically for the chassis model being purchased. It shall not be a generic manual for a multitude of different chassis.

EXCEPTION: _____

MANUALS, CHASSIS SERVICE:

Two (2) chassis service manuals containing parts and service information on major components shall be provided with the completed unit.

EXCEPTION: _____

MANUALS, CHASSIS OPERATION:

Three (3) illustrated chassis operation manuals shall be provided.

EXCEPTION: _____

ELECTRICAL WIRING DIAGRAMS:

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

EXCEPTION: _____

SECTION II - PUMP AND PIPING

SINGLE STAGE PUMPCAB:

The pump shall be a Hale Q-Max of a size and design to mount on the chassis rails of a commercial and custom truck chassis, and have a capacity of a minimum of 1500 GPM with one (1) six inch (6") hard suction from a ten-foot (10') lift (5" at 5,000 foot of elevation), and be NFPA-1901 rated performance.

EXCEPTION: _____

PUMP PERFORMANCE:

The entire pump shall be manufactured and tested at the pump manufacturer factory.

The pump shall be driven by a driveline from the truck's transmission. The engine shall provide sufficient horsepower and RPM to enable the pump to meet and exceed its rated performance.

The entire pump, both suction and discharge passages, shall be hydrostatically tested to a pressure of 600 PSI. The pump shall be fully tested at the pump manufacturer's factory to performance spots as outlined by the latest NFPA 1901 Pamphlet. The pump shall be free from objectionable pulsation and vibration.

The pump ratio shall be selected by the apparatus manufacturer to give maximum performance with the engine and transmission selected.

Two warning lights shall be provided to alert the operator when the drive unit has fully shifted from road to pump position. One shall be located on the truck cab instrument panel and the other shall be located on the truck pump panel adjacent to the throttle, both with appropriate warning plates.

EXCEPTION: _____

PUMP SHIFT:

The shifting mechanism shall be an in-cab Hale pneumatic pump-shift.

EXCEPTION: _____

PRIMING PUMP:

The priming pump shall be a positive displacement vane type, electrically driven, and conform to standards outlined in NFPA 1901. One priming control shall open both the priming valve and start the priming motor.

EXCEPTION: _____

PUMP COOLER:

A by-pass line with check valve shall be installed from the pump discharge manifold to the booster water tank to cool the pump. A ¼-turn control valve shall be installed on the pump operator's panel.

EXCEPTION: _____

PIPING:

All piping shall be installed in a manner to allow logical placement of valve controls under the it's specific pressure gauge. If necessary an auxiliary distribution manifold shall be provided. All

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remote piping up to 3" in diameter shall be schedule 40 stainless steel pipe or wire reinforced flexible hose capable of 600 PSI burst pressure. Victaulic couplings shall be used for ease of service.

EXCEPTION: _____

VALVES:

All valves are to be Akron Brass Company, with double Teflon seats, drop out type or pre-approved equal. All valve controls shall be locking type with universal joints. All discharge and suction valves up to 4" size shall be full-low swing-out style.

EXCEPTION: _____

THREAD SPECIFICATIONS:

All hose threads/connections on the fire pump and related fittings shall be National Standard Thread.

EXCEPTION: _____

MASTER DRAIN VALVE:

A master drain valve shall be mounted on the left pump panel to completely drain the main pump with a single push-pull control or quarter turn valve.

EXCEPTION: _____

INDIVIDUAL BLEEDER VALVES:

Each gated discharge outlet and suction inlet shall be equipped with a drain. All drains shall be operable without requiring the operator to get under the vehicle. All inlet bleeder valves shall be located in close proximity to the inlet.

EXCEPTION: _____

1-1/2" DISCHARGES:

There shall be three (3) 1-1/2" discharge openings, each equipped with 2' piping and 2' full-flow ball valves with control on the pump operator's panel. Location as follow:

Two at the cross lay hose beds with swivels, and one at the front bumper with swivel.

EXCEPTION: _____

CROSSLAYS:

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Two (2) 1 3/4 crosslays shall be supplied recessed in the upper front portion of pump enclosure. Each crosslay shall be provided with a bleeder valve. Each compartment shall be capable of holding 200' of 1 3/4" double jacketed hose, in fifty foot length, Task Force Tip FTS250PS nozzle with a pistol grip. Crosslay hose beds to be open at both ends.

Hose connections are to be offset from each other Crosslays shall have a hinged aluminum cover with grab handles and a device to hold the cover open for loading hose. Floors shall be aluminum material with cutouts in the center of the compartments for the continuous swiveling 90° discharge elbows. Smooth stainless steel hose guides shall be provided on each side of the crosslay hose bed. A horizontal stainless steel hose guide shall be provided on each bottom outer edge.

EXCEPTION: _____

2-1/2" DISCHARGES:

There shall be five (5) 2-1/2" discharge openings, each equipped with 2-1/2" piping and 2-1/2" full-flow ball valves, with four of them having controls on the pump operator's panel. Each of the four discharges to have a chrome 2-1/2" elbow, chrome 2-1/2" reducer, and 1-1/2" chrome cap with chain. The fifth 2-1/2" discharge will be operated by a remote valve controlled by the officer's joy stick. Locations as follows:

Two at the left pump panel.

One at the right pump panel with controls on the left pump panel.

One at the left or right rear of the hose bed.

One discharge to be operated by a remote valve controlled by the officer's joy stick and discharging at the bumper turret (Akron Brass Model 3465 or 3463 with appropriate fog nozzle for said turret).

EXCEPTION: _____

3" - 3-1/2" DISCHARGES:

There shall be two 3" discharge openings, equipped with 3" piping and 3" full-flow ball valves. Location as follows:

One at the right side pump panel with 45 degree chrome elbow with a silver colored 4" Storz adapter with cap and chain. The control on the left and right pump panel.

One 3-1/2" discharge above the pump centrally located in the dunnage area. The discharge will be fitted with an Akron Brass Model 3431 Apollo Hi-Riser monitor to include Akromatic nozzle model 5160, stacked tip 2499, and LDH deluge base which can be stored in a cabinet.

EXCEPTION: _____

DECK/PORTABLE MONITOR:

Akron Brass Model 3431 Apollo Hi-Riser monitor to include Akromatic nozzle model 5160, stacked tip 2499, and LDH deluge base. The monitor shall be mounted with sensor mounted into "compartment open light". Piping shall be mounted directly over pump outlet - no angles allowed in piping.

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EXCEPTION: _____

FOAM SYSTEM:

A FOAM PRO model 2002 capable of handling Class "A" foam concentrate, as well as most Class "B" concentrates. A digital electronic control display shall be mounted on the pump panel, in a location to be determined at the pre-engineering conference. One (1) paddle wheel shall be installed to monitor all foam discharges.

A check valve shall be installed between the system and the pump to prevent foam solution from entering the pump. The entire system shall be installed in a manner approved by the foam system manufacturer. Location to be plumbed as follows:

- Both pre-connected cross lays
- Front bumper Turret and 1 1/2" trash line
- A 2-1/2" discharge on each side of pump panel
- One 2-1/2" discharge at the rear of the hose bed

EXCEPTION: _____

FOAM STORAGE TANKS:

Two 20 gallon foam tanks (one for class "A" and one for class "B") shall be an integral portion of the polypropylene water tank. The foam cell shall not reduce the capacity of the water tank. The foam cell shall have a screen in the fill dome and a breather in the lid.

Each foam tank shall be supplied with a line and pump if needed to supply the foam concentrate to the foam system. The line and pump must be sufficient enough to supply the foam system with adequate foam concentrate.

EXCEPTION: _____

2-1/2" SUCTION INLETS:

There shall be two 2-1/2" suction inlets. One to be mounted on each (left and right) side of the pump panel (both recessed). Each inlet shall be equipped with 2-1/2" piping and 2-1/2" full-flow ball valves, with controls at the inlets. Inlets to have a strainer and chrome 2-1/2" plug and chain.

EXCEPTION: _____

6" SIDE SUCTION INLETS:

There shall be two side 6" suction inlets, one on the left and one on the right side of the pump panel. Each to have a replaceable free-flow rigid-loop type strainer, and anodes to prevent damage from galvanic corrosion.

EXCEPTION: _____

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6"INLET VALVES;

There shall be two Task Force Tips model AX3SP-NX Jumbo Ball Valves with 6" intake and 4" swivel Storz. One to be mounted on each side of the pump panel.

EXCEPTION: _____

SECTION III - PUMP OPERATOR'S PANEL

PUMP ENCLOSER:

The frame work for the pump enclosure shall include gussets at major load points for rigidity. A cushioning system shall be installed to isolate the enclosure from road shock, vibrations, and galvanic reaction. The pump enclosure shall be free-floating type, built separate from the cab, chassis, and body. All fasteners used in the body and enclosure shall be stainless steel. All bolts protruding into the compartments shall have "acorn" nuts to avoid injury to personnel. All major structural bolts shall be grade eight (8) with self locking nuts (Bornalloy or equal). All major structural bolts shall be coated with anti-seize compound prior to assembly. The use of aluminum rivets or fasteners to secure components to steel members is **NOT** acceptable.

EXCEPTION: _____

TOP COMPARTMENT:

A recessed open compartment shall be provided above the pump, constructed of bright aluminum trade-plate. It shall be bolted in place for ease of removal for servicing the pump and valves.

EXCEPTION: _____

SIDE PANEL ACCESS DOORS:

There shall be a removable access door provided above the right and left side of the pump panel for access to the pump. Pump access shall be large enough for a mechanic to crawl through.

EXCEPTION: _____

STAINLESS STEEL PANELS:

The pump operator's panel and right side pump panels shall be constructed of stainless steel for mounting of controls and gauges.

EXCEPTION: _____

SIDE OPERATOR'S PANEL:

The pump operator's control panel shall be located on the left side of the pump enclosure. The upper panel will contain the pump master gauges and shall be hinged for service. The lower panel shall contain pump inlets and outlets and shall include large, removable access plates

that allow individual removal of side valves for service. The operator's panel shall be recessed into the pump enclosure framework for protection of the gauges and controls.

Controls shall be grouped for convenient operation from the ground level position. The individual pressure gauges shall be located above their respective valve controls (If unable to do so, it must be disclosed at pre-construction meeting so placement can be determined). All controls shall be labeled with permanent tags to indicate function and status. The panel controls shall be color-coded.

EXCEPTION: _____

PUMP PANEL LIGHTS:

Pump panel controls and gauges shall be illuminated by a minimum of three (3) incandescent lights. Lights shall be installed under a polished stainless steel shield. One (1) pump panel light shall come on when the pump is shifted into gear from inside the cab. The remaining lights shall be activated from a switch located on the pump panel. The right side panel shall be at least three (3) incandescent lights. The right side panel lights shall be installed under a polished stainless steel shield.

EXCEPTION: _____

PANEL-MOUNTED CONTROLS AND GAUGES:

The following shall be installed on the pump operator's panel:

EXCEPTION: _____

PRESSURE GOVERNOR and MONITORING DISPLAY:

Fire Research PumpBoss model PBA105-A00 pressure governor and monitoring display kit shall be installed. The kit shall include a control module, pressure sensor, and cables. The control module case shall be waterproof and have dimensions not to exceed 6 3/4" high by 4 5/8" wide by 1 3/4" deep. Inputs for monitored information shall be from a J1939 databus or independent sensors. Outputs for engine control shall be on the J1939 databus or engine specific wiring.

The following continuous displays shall be provided:

CHECK ENGINE and STOP ENGINE warning LEDs

Engine RPM; shown with four daylight bright LED digits more than 1/2" high

Engine OIL PRESSURE; shown on an LED bar graph display in 10 psi increments

Engine TEMPERATURE; shown on an LED bar graph display in 10 degree increments

BATTERY VOLTAGE; shown on an LED bar graph display in 0.5 volt increments

PSI / RPM setting; shown on a dot matrix message display

PSI and RPM mode LEDs

THROTTLE READY LED.

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.

The program shall store the accumulated operating hours for the pump and engine, previous incident hours, and current incident hours in a non-volatile memory. Stored elapsed hours shall

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be displayed at the push of a button. It shall monitor inputs and support audible and visual warning alarms for the following conditions:

- High Engine RPM
- High Transmission Temperature
- Low Battery Voltage (Engine Off)
- Low Battery Voltage (Engine Running)
- High Battery Voltage
- Low Engine Oil Pressure
- High Engine Coolant Temperature

The governor shall operate in two control modes, pressure and RPM. No discharge pressure or engine RPM variation shall occur when switching between modes. A control knob that uses optical technology shall adjust pressure or RPM settings. It shall be 2" in diameter with no mechanical stops, a serrated grip, and have a red idle push button in the center.

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

The pressure governor and monitoring display shall be programmed for Caterpillar engines.

EXCEPTION: _____

PUMP PANEL GAUGES:

Fire Research PumpBoss –T1 option for a transmission temperature sensor shall be installed. The sensor shall have a single wire for input to the PumpBoss PBA100 series pressure governor and monitoring display.

One CLASS 1 master pump pressure gauge 30"-0-600#, liquid filled, with bright bezel, white background, black lettering, 4-1/2" diameter.

One CLASS 1 master pump vacuum gauge 30"-0-600, liquid filled, with bright bezel, white background, black lettering, 4-1/2" diameter.

10 individual CLASS 1 gauges , one for each discharge (one located with the joy stick in the officer's section of cab).

One CLASS 1 Intelli-Tank water level gauge

FOAMPRO Model 3012 control module, system rating placard, and manual dual-tank selector valve.

Two CLASS 1 Intelli-Tank foam tank level gauges

Pump hour meter

"Pump in gear" indicator light

Electric pump primer control

Engine cooler valve control

Pump cooler valve control

All pump, valve controls, and identification placards

U.L. test taps

EXCEPTION: _____

COMPLY
Y N

SECTION IV - BOOSTER TANK AND PIPING

POLYPROPYLENE BOOSTER TANK:

A booster tank with at least 500 gallon capacity will be furnished. The tank will be constructed of polypropylene and shall be completely independent of the body and compartments. The tank shall be constructed in such a manner to allow for the lowest hose be possible.

Longitudinal and transverse swash partition will be provided in accordance with NFPA #1901. Partition will be designed to allow movement of both air and water for maximum flow characteristics.

The tank will have a combination vent/overflow pipe and manual fill tower. It will be located at the top of the tank and will have a removable screen and a hinged, non-latched cover. A minimum 4" ID vent/overflow pipe will be installed in the fill tower, and will be directed behind the rear axle.

EXCEPTION: _____

TANK WARRANTY:

The booster tank will carry a lifetime warranty from the tank builder. Proposer shall include a copy of their warranty with their proposal proposal.

EXCEPTION: _____

TANK SUPPORT STRUCTURE:

The tank bottom shall rest on a body sub-frame, providing support along the full perimeter of the tank bottom, plus cross-supports.

EXCEPTION: _____

TANK SUCTION LINE:

There shall be one 3" heavy duty stainless steel reinforced hose line between the tank sump and the pump suction manifold, including a 3" full-flow valve and check valve, with control on the pump operator's panel. The piping and valve arrangement shall be capable of delivering water to the pump at a minimum of 500 GPM while pumping at 150psi.

Valving will be operated remotely from the officer's joy stick. This line must also be capable of flowing a minimum of 500 GPM.

EXCEPTION: _____

TANK FILL LINE:

There shall be one 1-1/2" line installed between the tank and the pump discharge manifold, including a full-flow valve with control on the pump operator's panel.

EXCEPTION: _____

COMPLY
Y N

TANK DRAIN VALVE:

There shall be one 2-1/2" tank drain valve installed on the bottom of the tank sump with control under the left body side.

EXCEPTION: _____

SECTION V - HOSE BODY AND COMPARTMENTS

WALKING SURFACES:

NOTE: Current NFPA walking surface requirement(s) shall be met - please advise as to proposer's intended solution to new requirement(s)

EXCEPTION: _____

BODY CONSTRUCTION:

The body shall be a 101" wide modular design, constructed separately from the chassis. Each proposer shall specify the type of construction proposed. All compartment dimensions given are approximate. Proposers shall submit drawings and measurements of compartments that comply as closely as possible with the requested sizes and dimensions. It is understood that each manufacturer will have different compartment designs that accomplish the same goals.

EXCEPTION: _____

REAR STEP:

A rear step, at least 16" deep, shall be provided as the tailboard.

The outer edge, sides and rear shall be formed with a return break forming a channel section for added strength. The running boards on each side of the pump enclosure shall be constructed entirely of 3/16" aluminum tread plate. The outer edge shall be broken down with a 1" return bead, forming a channel section for required strength. The running boards shall be supported with 2" angle iron integral with pump enclosure.

EXCEPTION: _____

CAB WALKWAY:

Top of cab shall be covered with 3/16" aluminum tread plate, to allow walking surface for deck gun operation. All surfaces over compartments, on top of body where it would be necessary for personnel to walk or mount equipment shall be covered with 3/16" aluminum tread.

EXCEPTION: _____

COMPLY
Y N

BODY FENDERS:

Bolt-on extended, bright finish fenderettes shall be installed to protect body sides from road wash. Fender clearance shall conform to SAE standards.

EXCEPTION: _____

RUB RAILS:

Heavy-duty, bolt-on, and channel shaped extruded aluminum or stainless steel rub rails shall be installed along the bottom of the body and along all outside edges of the running boards and rear step for maximum protection.

EXCEPTION: _____

RUNNING BOARDS:

Running boards shall be installed at the base of the pump enclosure, extending from the rear of the cab to the front of the hose body. They shall be approximately 12" deep and shall be constructed of tread-plate with bolt-on extruded rub rails attached to the outer edge. A space shall be left where the running boards meet the front of the side compartments to allow for drainage. The left and the right side running boards shall have a recessed open compartment under the pump panels to carry a 25 foot 5 inch suction hose.

The running boards shall not be fastened to the cab, fenders or body in any way that would allow for the normal flexing of the frame or sheet metal to induce fatiguing or fracturing of the tread plate.

EXCEPTION: _____

PULL OUT STEPS:

Two pull out steps shall be incorporated in the recessed suction hose compartment running boards. One on each side (left and right) of the pump panel. They shall have a latch to prevent the steps from pulling out while the vehicle is in motion.

EXCEPTION: _____

REAR STEP:

The rear step shall be a minimum of 16" deep and shall be constructed of tread-plate with extruded rub rails bolted to the outer edges. It shall have a latch to prevent the steps from pulling out while the vehicle is in motion.

EXCEPTION: _____

COMPLY
Y N

ACCESS STEPS:

Nine (9) large chrome tread-plate pattern steps shall be installed: Three (3) on the rear panel, three (3) on the left front of the side compartments, and three (3) on the right front of the side compartments. All steps shall have a minimum of 35 sq. in. top surface.

EXCEPTION: _____

STEP LOAD CAPACITY:

All steps, running boards, platforms, ladders or other standing and/or climbing areas shall be capable of sustaining a static load of 500 lbs. without permanent deformation, and shall have skid resistant surfaces.

EXCEPTION: _____

BODY HANDRAILS:

Two (2) vertical on rear beavertails.
Two (2) horizontal above side pump panels.
Two (2) horizontal above hose bed to rear of truck.
Two (2) grab handles on top of the front sides of the box near the pump panels.

EXCEPTION: _____

LADDER AND BACK BOARD STORAGE COMPARTMENT:

Ladders (3) and back boards (2) and space for (2) Pike poles 6' and 10', and (2) plaster hooks 6' and 10' shall be stored in an enclosed compartment through the tank and under the main hose bed. The 24' extension and the 14' roof ladder will be stored in a manner that they can be removed independently from one another. The third ladder space shall be for an attic/folding ladder. An access door shall be provided at the rear of the body. Exact design of compartment will be as agreed at the pre-construction conference.

EXCEPTION: _____

REAR TOWING PROVISIONS:

Two heavy-duty tow eyes shall be provided at the rear, located under the rear tailboard, or one 20,000-pound tow bar will be accepted.

EXCEPTION: _____

REAR HOSE BED:

The hose body shall be a minimum of 70" wide x 120" long. The body side sheet shall be formed into a channel to insure adequate strength. The hose body shall be divided into three (3) compartments by adjustable partitions. The partitions shall be constructed for strength and hose Protection.

Two (2) 1 1/4" diameter, 20" minimum long horizontal handrail shall be provided at the rear of the hose bed.

Rubber inserted handrails are not acceptable.

EXCEPTION: _____

HOSE BED COVERS:

A two (2) section hose bed cover constructed of at least .125" bright aluminum tread plate shall be furnished. The cover shall be hinged with full length stainless steel piano hinge. The sides shall be slanted down with the center of the cover supported by a self-supporting brace in the front and rear only. The hose bed cover shall not rest on the hose bed dividers, nor shall it prevent movement and adjustment of any hose bed divider.

The cover shall be reinforced so that it can support the weight of a man walking on the cover. The underside shall have a full smooth aluminum liner to prevent hose couplings from catching supports or rear lip.

A heavy duty vinyl cover, red in color, shall be provided to cover the open area at the rear of the hose bed. Cover shall be removable. A minimum distance between hose load and cover shall be determined at pre-engineering conference.

Chrome grab handles and gas filled cylinders shall be provided to assist in opening and closing the cover. If access to water tank fill tower is blocked by the hose bed cover, then a hinged door shall be provided in it so that the tank may be filled without raising the cover doors.

Hose bed covers shall have light that self illuminating when the covers are raised allowing for the hose bed to be illuminated at night. Raising of the covers will cause illumination of the "Cabinet Open Light" in the cab.

EXCEPTION: _____

HOSE BED DECKING:

Hose bed decking shall be installed above the booster tank, between the body side sheets. An extrusion shall be installed along the front and rear that allows for hose bed dividers to easily adjust from side to side.

EXCEPTION: _____

HOSE BED DIVIDERS:

The two (2) (at least) adjustable dividers shall be a "capped" design, with rounded edges. Minimum hose capacity shall be 1000' of 4" and 500' of 2-1/2" and 200' of 1-3/4" hose with nozzle. Specific hose load to be detailed at pre-engineering conference to be certain of adequate size.

A hose bed divider shall be installed in the cross lay bed.

COMPLY
Y N

EXCEPTION: _____

CROSSLAY HOSE BED:

Two (2) cross lay hose beds shall be recessed above the pump. Vertical and horizontal stainless steel scuff protectors shall be installed on each side.
Capacity to be as follows:

Two (2) beds for 200' of 1-3/4" hose each.

EXCEPTION: _____

COMPARTMENTS:

The body compartments will be finished smooth or painted to provide a professional appearance. The tops of the side compartments shall be tread plated. A "lazy bend" will be formed along the edge over the compartment door openings to act as a drip rail or bolt-on drip rail is acceptable. A separate drip molding will be installed above all doors not protected by the "lazy bend" or bolt on drip rail.

Each compartment shall have a louver vent on an interior wall.

The door seals shall be below the compartment floors, or a lower floor flange must be installed to prevent water and grime from entering the compartment.

All floors will have corner drains.

All floors and shelving shall have a black dry type decking.

EXCEPTION: _____

COMPARTMENT DOORS:

Compartment doors shall be R-O-M corporation rollup doors. Doors shall not be painted, and may be an anodized satin or brushed finish. Doors shall have the R-O-M solid state magnetic door ajar system.

EXCEPTION: _____

REAR DOORS:

The rear compartment doors shall be mounted on full-length stainless steel piano hinges that are bolted to both the door and the door frame. The door latch shall have a stainless steel D-ring handle and striker. The latch mechanism shall be installed between the door pans for protection. The secondary door shall be equipped with an interior mounted latch. These doors shall be equipped with double spring holder that allows the door to be held open, and hold door in the closed position. A neoprene weather-strip will be installed on the full perimeter of the doors.

EXCEPTION: _____

COMPLY
Y N

ELECTRIC DOOR LOCK SYSTEM:

The roll-up and rear doors shall be equipped with electric power lock system. All doors shall be locked or unlocked with activation from a single switch located in the cab. Location of switch to be determined at preconstruction conference.

EXCEPTION: _____

COMPARTMENT SIZES AND LOCATIONS:

To be as follows:

All dimensions are approximate and are interior with the door closed.
Alternate compartment dimensions will be accepted.

One (1) compartment on each side ahead of the rear wheels
56" wide X 63" high X 24" deep

One (1) compartment on each side behind rear wheels
56" wide X 63" high X 24" deep

One (1) compartment on each upper body side above the rear wheels.
52" wide X 33" high X 24" deep

One (1) compartment at the rear of the hose body with double doors.
48" wide X 26" high X 24" deep

Four (4) self-contained breathing apparatus cylinder compartments. Two on the right side in the wheel well area and two on the left side of the rear wheel well area. All four shall have positive latch doors, rubber matting, and drain hole.

EXCEPTION: _____

COMPARTMENT SHELVES:

Nine (9) adjustable shelves shall be installed.
Locations:

- Two (2) in the left front compartment (L1)
- One (1) in the left compartment over the rear wheels (L2)
- One (1) in the left rear compartment (L3)
- Two (2) in the right front compartment (R1)
- One (1) in the right compartment over the rear wheels (R2)
- Two (2) in the right rear compartment (R3)

EXCEPTION: _____

SLIDEOUT TRAYS:

Five (5) slide out trays capable of holding 500 pounds shall be installed.
Locations:

- One (1) in the left front compartment (L1)
- One (1) in the left rear compartment (L3)
- One (1) in the right front compartment (R1)

COMPLY
Y N

One (1) in the right rear compartment (R3)
One (1) in the rear body compartment

EXCEPTION: _____

SCBA BOTTLE COMPARTMENT:

There shall be four SCBA bottle compartments on the body. There shall be one in front and behind each rear tire. All tube shall be slanted, and have a drain hole at the lowest point. The compartment shall have a restraint device, do protect from inadvertent bottle displacement if compartment door comes open. A sealed self latching compartment door shall be installed.

EXCEPTION: _____

SECTION VI - ELECTRICAL SYSTEM AND WARNING EQUIPMENT

ELECTRICAL SYSTEM:

The apparatus shall be equipped with a multiplex management system for complete control of the electrical system devices. This management system shall be capable of performing load management functions, system monitoring and reporting, and be fully programmable for control of the electrical system.

The system shall provide diagnostic capabilities for troubleshooting the electrical system of the apparatus.

EXCEPTION: _____

CHASSIS COLOR CODED WIRING:

All wiring shall be in accordance with NFPA-1901. All chassis wiring shall be stranded copper with number, color, and function imprinted crosslink high temperature polypropylene insulation. All electrical shall comply with SAE J 1118. coded.

EXCEPTION: _____

ALTERNATOR:

A minimum 290 amp alternator shall be provided. The alternator shall be connected to the power and ground distribution system with heavy-duty cables sized to carry the full rated alternator output.

EXCEPTION: _____

BATTERY BANK:

A single battery system will be provided, utilizing four (4) Optima, yellow top deep cycle batteries. Each battery shall have 12 volt, 925 CCA, 200 reserve capacity, high cycle,

COMPLY
Y N

maintenance-free, rating of 4500 CCA at 0 degrees Fahrenheit and 1000 minutes of reserve capacity.

EXCEPTION: _____

BATTERY DISCONNECT:

A battery disconnect switch, rated above the alternator output, shall be used to activate the system and provide power to the power panel. Switch shall be located in the driver's foot well.

EXCEPTION: _____

ELECTRONIC LOAD MANAGEMENT:

An electronic load management (ELM) system shall be provided that monitors the vehicles 12-volt electrical system, and automatically reduces the electrical load in the event of a low voltage condition and by doing so, ensures the integrity of the electrical system. The ELM shall monitor the vehicle's voltage while at the scene (parking brake applied). It shall sequentially shut down individual electrical loads when the system voltage drops below a preset value.

The ELM shall sequentially re-energize electrical loads as the system voltage recovers. The sequence of shutdown and electrical loads to be shut down shall be determined at the pre-engineering conference.

EXCEPTION: _____

EMERGENCY LIGHTING CONTROLS:

A master switch shall control all of the emergency lights. Lights are to sequence on and off to minimize shock to the electrical system. Work lights, scene lights, alley lights are **NOT** controlled by the master switch.

AMP DRAW REPORT:

The Proposer shall provide, with the proposal package, an itemized print out of the expected amp draw of the entire vehicle's electrical system.

The manufacturer of the apparatus shall provide the following:

- 1) Documentation of the electrical system performance tests
 - 2) A written load analysis, which shall include the following:
 - A) The nameplate rating of the alternator
 - B) The alternator rating under the conditions specified per NFPA 1901, section 9-3.1
 - C) The minimum continuous load of each component that is specified per NFPA 1901, section 9-3.2
 - D) Additional loads that, when added to the minimum continuous load, determine the total connected load
 - E) Each individual intermittent load
- All of the above listed items shall be provided by the proposer per NFPA 1901, section 9-15.

EXCEPTION: _____

COMPLY
Y N

ACCESSORY SWITCH PANEL:

A switch panel shall be installed. Rocker switches shall be provided with integral "power on" indicator lights and backlit function labels. The rocker switches shall be wired with a sequential priority circuit, to protect the computers from a voltage spike. The switch panel shall be located in the "overhead" position above the windshield on the driver's side to allow for easy access switches shall be rocker type with an indicator light, of which is an integral part of the switch. Actual switch placement and wiring order shall be finalized at the pre-engineering conference.

EXCEPTION: _____

UL TEST:

The pump shall undergo an Underwriters Laboratories Incorporated test per Class A requirements of NFPA 1901 prior to delivery of the completed apparatus. The UL acceptance certificate shall be furnished with the apparatus on delivery.

EXCEPTION: _____

WIRING DIAGRAM:

An "as built" wiring diagram will be provided.

EXCEPTION: _____

CAB INTERIOR LIGHTING:

At least two clear dome lights shall be supplied in the cab. These are only activated with an open cab door switch. At least two red dome lights shall be supplied in the cab that are individually switched on. A courtesy light at each door opening, controlled by automatic door switches.

Location to be determined at the pre-construction meeting.

EXCEPTION: _____

MAP LIGHTS

One map light to be mounted on the officer's side of the cab. Location to be determined at the pre-construction conference.

EXCEPTION: _____

STEP WELL LIGHTING:

Four (4) step well lights shall be supplied. These lights, one in each step well, shall have a light hood to direct the light downward toward the step and ground. All steps light shall be illuminated when any door is opened and the battery selector switch is on.

EXCEPTION: _____

COMPLY
Y N

CAB AND BODY GROUND LIGHTING:

One LED light shall be mounted beneath each door. These lights shall be designed to provide illumination on areas under the driver and crew riding area exits. All cab ground lights will automatically activate when any cab door is opened. LED ground illumination lights shall be provided under the body as required by NFPA 1901.

EXCEPTION: _____

VOLTAGE MONITOR SYSTEM:

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

Two (2) alarm stages shall be provided. The first stage shall activate intermittently if the system falls below 11.8 vdc or rises above 15 vdc.

The second stage alarm shall activate continuously if the system voltage falls below 11.3 vdc or rises above 16 vdc. Input voltages shall be conditioned to avoid nuisance alarms.

EXCEPTION: _____

GROUND STRAPS:

Special attention shall be given to all ground straps. NO star type washers will be acceptable on any ground straps. Apparatus shall have more than necessary minimum ground straps. All ground straps must be clean and flat washers with lock-nuts used to secure them to the apparatus.

EXCEPTION: _____

ENGINE COMPARTMENT LIGHT:

An engine compartment light shall be installed under the engine hood, of which the switch is an integral part. Light shall have a .125" diameter deep hole in its lens to prevent moisture retention.

EXCEPTION: _____

HIGH IDLE:

A high idle switch shall be provided inside the cab on the instrument panel that will automatically maintain a preset engine rpm.

EXCEPTION: _____

ICC MARKER LIGHTS:

COMPLY
Y N

Five (5) LED cab face mounted clearance lights shall be supplied, mounted above the windshield, in conformance with FMVSS 108.

Two (2) LED side combination clearance/turn signal lights shall be supplied and mounted ahead of the front door, one (1) on each side.

EXCEPTION: _____



DRIVER INSTRUMENTATION AND CONTROLS:

Instrument panel gauges, vehicle lights and other electrical accessories shall use proper size wiring to accommodate expected current load.

Wiring shall meet SAE J-1128 specifications for high temperature (250 degrees Fahrenheit minimum) conditions and be color, number and function coded. Cab instruments and controls shall be conveniently located within the forward cab section. Instruments include:

- Electronic tachometer
- Electronic speedometer with trip odometer
- Engine oil pressure gauge: warning indicator light and audible alarm
- Engine coolant temperature gauge: warning indicator light and audible alarm
- Transmission fluid temperature gauge: high temperature warning light and audible alarm
- Dual air pressure gauge: individual low air pressure warning indicator lights and audible alarm
- Voltmeter: Two (2) stage low or high voltage warning indicator light and audible alarm
- Fuel gauge: Two (2) stage low fuel warning indicator with audible alarm
- Low coolant warning indicator light: Amber with audible alarm
- Stop engine warning indicator light: Red with audible alarm
- Check engine warning indicator light: Amber with audible alarm
- Engine hour-meter
- Ignition Switch: Green ignition on indicator light
- Push button engine start control switch
- Heater and defroster controls
- Headlight switch, with dimmer for dash panel lights
- Self canceling turn signal switch (arm)
- Headlight dimmer : Incorporated into turn signal arm
- Hazard light switch : Incorporated into steering column
- Emergency warning light control panel
- Parking brake control: Red parking brake on indicator light
- “Cab door open” indicator light to be a strobe or beacon mounted on headliner within the line of sight, and shall indicate the status of the passenger side and rear compartment doors
- Headlight control switch
- Dash rheostat for instrumentation lighting control
- Keyless ignition switch
- One starter button
- Hale pneumatic pump shift control
- Panel warning indicators
- Parking brake control valve
- Horn button control: Center of steering wheel, and left side on driver’s side floor

EXCEPTION: _____

COMPLY
Y N

WARNING INDICATORS:

Warning indicators shall be (where possible) the "dead front" type, meaning the warning light and word identification of same does not show up unless it is necessary.

EXCEPTION: _____

ELECTRICAL POWER CONTROL SYSTEM:

A compartment shall be provided in or under the cab to house the vehicles electrical power and signal circuit protection and control components.

The power and signal protection and control compartment shall contain circuit protection devices, power control devices, and a programmable logic controller. Power and signal protection and control components shall be protected against corrosion, excessive heat, excessive vibration, physical damage and water spray.

Serviceable components shall be readily accessible circuit protection devices, which conform to SAE standard, shall be utilized to protect each circuit. All circuit protection devices shall be sized to prevent wire and component damage when subjected to extreme current overload.

General protection circuit breakers shall be Type-I automatic reset (continuously resetting) and conform to SAE J553 or J258. When required, automotive type fuses conforming to SAE J554, J1284, J1888 or J2077 shall be utilized to protect electronic equipment. Power control relays and solenoids shall have a direct current (dc) rating of 125 percent of the maximum current for which the circuit is protected.

EXCEPTION: _____

POWER AND GROUND STUD:

A 12 volt power stud and a grounding stud shall be provided in the electrical component compartment (center dash) for two (2)-way radio equipment.

An additional 40 amp power stud shall be provided in the electrical component compartment for additional electrical equipment.

EXCEPTION: _____

STEERING WHEEL AND COLUMN:

The steering column shall be a tilt/telescopic type with an integral high beam/turn signal control switch. The warning "Hazard" light switch shall be mounted on the column. A rubber boot shall be installed to cover the steering shaft from the dash to the floor.

EXCEPTION: _____

EMI/RFI PROTECTION:

The apparatus shall incorporate the latest designs in the electrical system with the state of the art components to insure that radiated and conducted electromagnetic interference (EMI) and radio frequency interference (RFI) emissions are suppressed at the source.

The apparatus proposed shall have the ability to operate in the environment typically found in fire ground operations with no adverse effects from EMI/RFI. The electrical system shall be designed for full compatibility with low level control signals and high powered two (2)-way radio communication systems.

EMI/RFI susceptibility is controlled by utilizing components that are fully protected and wiring that utilizes shielding and loop back grounds where required. The apparatus shall be bonded through wire braided ground straps. Relays and solenoids that are suspect to generating spurious electromagnetic radiation are diode protected, and prevent transient voltage spikes.

EXCEPTION: _____

ANTENNAS:

One radio antenna lead shall be run on the inside of headliner from the dash to a mounted antenna on the cab roof. Location to be determined at the preconstruction conference.

Two antenna (one GPS and one transmitter) for MDT capabilities shall be mounted on the cab roof with a cable running from the dash, inside the headliner, to the antennas. Location to be determined at the preconstruction conference.

EXCEPTION: _____

VEHICLE INTERCOM SYSTEM:

There shall be a David Clark intercom system furnished in the chassis cab. The driver's and officer's headsets will have a push-to-talk radio interface to accept a Motorola CDM 1550. All wiring shall be recessed, to give a professional appearance. The intercom system shall be installed and have all wiring and components to render the system operational as follows:

- One (1) master station with two headset jacks in rear of cab.
- One (1) isolated radio interface module for driver.
- One (1) radio interface module for officer.
- One (1) radio cord junction module.
- One (1) radio interface cord.
- One (1) weatherproof jack on the pump panel and 15-foot extension.
- Five (5) David Clark #6000 headsets with overhead mounting clip. One of the headsets (in the driver's position) shall have a special headset to allow the driver to hear traffic in one ear.

PTT C6008B David Clark Company manufactures noise attenuating headsets and adapters for use with two-way radios.

Location of modules and head set mounting locations to be determined at the pre-construction conference.

EXCEPTION: _____

SIREN AND SPEAKER:

One (1) Whelen model 295HFS2 electronic siren with microphone. A left-side foot switch mounted on the engineer's floor.

COMPLY
Y N

One (1) Whelen model SA314B 100-watt siren/speaker with polished contoured mount Whelen model SACSTCMP shall be mounted in the front bumper.

EXCEPTION: _____

MANUALS:

One (1) chassis owner's manual shall be supplied at the time of delivery. A complete bill of materials and "as built" electrical schematic will also be furnished.

EXCEPTION: _____

CAB, BODY LIGHTING, WIRING AND ELECTRICAL EQUIPMENT:

The following items shall be furnished: All warning light shall meet NFPA 1901.

SPOT LIGHTS:

Two (2) Golights Model 2020 to be mounted on an elevated platform on the cab roof, with the controls mounted in the center of the dash. Location to be determined at the preconstruction conference.

EXCEPTION: _____

Five (5) handheld radio chargers. Four (4) will be Motorola's and one Bendix King. Location to be determined at the pre-construction conference. Bendix King charger will be provided by purchaser.

EXCEPTION: _____

the

Four (4) Streamlight Survivor division 2 flashlight model 90064. Location to be determined at pre-construction conference.

EXCEPTION: _____

system

Two (2) Streamlight Litebox rechargeable Lantern Flashlight-dual filament-vehicle mount model 45706. Location to be determined at pre-construction conference.

EXCEPTION: _____

THERMAL IMAGING CAMERA:

One Bullard T4 Thermal Imager and battery charger shall be mounted in the rear of the cab. Location to be determined at pre-construction conference.

COMPLY
Y N

EXCEPTION: _____

PERIMETER SCENE LIGHTS, CAB:

There shall be a weatherproof light provided for each cab door. Lighting shall be designed to provide illumination on areas under the driver, officer, and crew cab riding area exits, which shall be activated automatically when the exit doors are opened, by the door jam switch. The lighting shall be capable of providing illumination at a minimum level of one (1) foot-candle on ground areas within 30.00" of the edge of the apparatus in areas which personnel climb in or out of the apparatus or descend from the apparatus to the ground level.

EXCEPTION: _____

PERIMETER SCENE LIGHTS, BODY:

There shall be six (6) lights provided under the body. Location shall be determined at the pre-engineering conference. The lens shall be clear.

The perimeter scene lights shall be activated in a manner to be determined at the pre-engineering conference. The lighting shall be capable of providing illumination at a minimum level of one (1) foot-candle on ground areas within 30.00" of the edge of the apparatus in areas designed for personnel to climb onto the apparatus or descend from the apparatus to the ground level.

EXCEPTION: _____

COMPARTMENT LIGHTING:

All compartment lighting shall be R-O-M LED compartment lighting system or similar. Placement of lighting shall be along the outside vertical edge of compartment.

EXCEPTION: _____

12 VOLT POWER SUPPLY

One triple cigarette (female) style power supply for cell phone to be installed in the cab. One triple cigarette (female) style power supply for suction units to be installed in R-1 compartment on the forward wall.

EXCEPTION: _____

PUMP ENCLOSURE LIGHT:

One (1) light in pump enclosure with integral switch.

EXCEPTION: _____

300 WATT FLOODLIGHT:

COMPLY
Y N

Two (2) Fire Research Corp. Triple Cluster Lamp 12 vdc 300 watt model LTA100-TCO mounted on telescoping light poles push up model OPA530. One light shall be mounted on the front vertical corner of each side of the pump panel, leaving clearance to raise the cab. There shall be a SPOT OFF FLOOD selector switch on the square tube. Wiring shall extend from the tube bottom. The light pole shall be anodized aluminum and have a knurled twist lock mechanism to secure the extension pole in position. The extension pole shall rotate 360 degrees. If light may impede the raising of the cab, a interlock must be provided to prevent cab raising from damaging the light.

EXCEPTION: _____

STEP LIGHTS:

Two (2) step lights wired to pump panel light switch, one on each side.

EXCEPTION: _____

and red

Weldon 3894 Quad LED tail lights (red stop/tail, amber arrow turn signal, warning) one on each side of the apparatus tailboard.

white back-up,

EXCEPTION: _____

Halogen headlamps

EXCEPTION: _____

Turn signals (preferable LED) with two side mounted auxiliary turn signals.

EXCEPTION: _____

WARNING LIGHT SYSTEM

The following items shall be furnished: All warning light shall meet NFPA 1901.

UPPER ZONE "A":

Whelen lightbar model FN72QLED NFPA Edge Ultra Freedom LED with 3M Opticom pre-emption system installed.

EXCEPTION: _____

LOWER ZONE "A":

Depending on the design of the front end, there shall be at least two to four Whelen series 600 linier super LEDs model 60RO2FRR. All shall have a chrome bezel model 6EFLANGE.

COMPLY
Y N

EXCEPTION: _____

UPPER ZONE "B":

Two Whelen 900 series linier super LEDs model 90RR5FRR mounted at each upper ends of the body. All shall have a chrome bezel model 9EFLANGE.

Two Whelen 900 series Halogen scene lights model 90E000ZR mounted next to the red LEDs. All shall have a chrome bezel model 9EFLANGE. Understanding that the halogen lights are not surface mounted, substitution must be explained.

EXCEPTION: _____

LOWER ZONE "B":

Three Whelen 600 series linier super LEDs model 60RO2FRR with one mounted on the side of the front bumper. The other ones shall be mounted over each wheel. Understanding that there may be clearance issues over the rear wheel, substitution must be explained. All shall have a chrome bezel model 6EFLANGE.

EXCEPTION: _____

UPPER ZONE "C":

Two Whelen 900 series linier super LEDs model 90RR5FRR. One shall be mounted on each upper side of the tailboard. All shall have a chrome bezel model 9EFLANGE.

Two Whelen 900 series Halogen scene lights model 90E000ZR mounted below each red LED. All shall have a chrome bezel model 9EFLANGE. Rocker switch with elimination (or use of the V-MUX controller or similar multiplex controller) Understanding that the halogen lights are not surface mounted, substitution must be explained.

EXCEPTION: _____

MIDDLE ZONE "C":

Traffic advisory LED light Whelen model TAL85, shall be recessed into the face of the tailboard area. Location of control head shall be decided at the pre-construction conference.

EXCEPTION: _____

LOWER ZONE "C":

Two Whelen model CAST4V chrome light bezel with the following lights shall be mounted at each side of the tailboard.

Two Whelen 600 series linier super LEDs 60RO2FRR

Two Whelen 600 series amber LEDs arrows 60A00TAR

Two Whelen 600 series maximum brake light LEDs 60ROOXRR

Two Whelen 600 series backup light LEDs 60COOWCR

COMPLY
Y N

EXCEPTION: _____

UPPER ZONE "D":

Two Whelen 900 series linier super LEDs model 90RR5FRR mounted at either upper ends of the body. All shall have a chrome bezel model 9EFLANGE.

Two Whelen 900 series Halogen scene lights model 90E000ZR mounted next to the red LEDs. All shall have a chrome bezel model 9EFLANGE.

Understanding that the halogen lights are not surface mounted, substitution must be explained.

EXCEPTION: _____

LOWER ZONE "D":

Three Whelen 600 series linier super LEDs model 60RO2FRR with one mounted on the side of the front bumper. The other ones shall be mounted over each wheel. Understanding that there may be clearance issues over the rear wheel, substitution must be explained. All shall have a chrome bezel model 6EFLANGE.

EXCEPTION: _____

POWER SUPPLY UNIT:

The power supply unit/s for the emergency lights shall be Whelen brand.

EXCEPTION: _____

RADIOS:

Three (3) Motorola XTS 1500, one (1) Bendix King with charger mounts. Locations to be determined at the pre-construction conference.

EXCEPTION: _____

ARFF RADIOS:

One ICOM IC-200 mobile radio shall be installed, and wired to the driver and officer headsets. They will have a two push-to-talk radio interface to accept a ICOM IC-A200.

Two (2) extra isolated radio interface module for driver and officer.

The ICOM mobile radio will need an antenna and wiring, location to be determined at the pre-construction conference.

One Potable ICOM IC-3A radio and charger shall be mounted in the front of the cab with charger, location to be determined at the pre-construction conference.

EXCEPTION: _____

COMPLY
Y N

SECTION VII - PAINT FINISH AND LETTERING

PAINTING

The cab and body will be two tones and shall be to fire apparatus standards. There will be excellent gloss durability, color retention, free of dirt, sags, and orange peel. The color, reflective stripes and lettering will be determined during the pre-construction conference.

All exposed metal surfaces not chrome plated, polished stainless steel or bright aluminum tread plate shall be thoroughly cleaned and prepared for painting. The aluminum surfaces shall be properly etched using a high-pressure and high-temperature acid etching system.

All surfaces shall be steam cleaned, phosphatized and marine epoxy primed prior to the application of the finish coats and all exterior sheet metal is to be thoroughly ground prior to priming. The components are to be finish painted prior to mounting, All irregularities in painted surfaces shall be rubbed down and all seams shall be caulked before the application of the finish coat.

Both the cab and body shall be painted. All removable items such as handrails, brackets, compartment doors, door hinges, trim, etc. shall be removed and painted separately to insure finish paint behind all mounted items. Body assemblies that cannot be finish painted after assembly shall be finish painted before assembly. Both aluminum and steel surfaces to be painted shall be primed with a two (2) component primer which is compatible with the finish coat. The cab shall be two-tone, with the upper section painted white and lower section of the cab and body painted red.

Separation of the red and white cab shall be determined at the pre-engineering conference.

Topcoats and primers must be chrome and lead free.

EXCEPTION: _____

PAINT CHASSIS FRAME ASSEMBLY:

The chassis frame assembly shall be painted black. Components that are included with the chassis frame assembly that are to be painted black are frame rails, cross members, axles, suspension, steering gear, fuel tank, body substructure supports, miscellaneous mounting brackets, etc.

EXCEPTION: _____

WARRANTY - PAINT AND CORROSION:

Body exterior paint finish shall be warranted against blistering, peeling, bubbling, lack of adhesion or any other manufacturing or material defect **for a period of five (5) years.**

The body shall also be warranted against corrosion perforation for a period of ten (10) years. A copy of the manufacturer's warranty shall be included with the proposal.

EXCEPTION: _____

LETTERING

**COMPLY
Y N**

Lettering shall be done in Gold Leaf, and shaded in black. Locations and size to be determined during the pre-construction conference. The following is needed:

Side "A"
PRESCOTT FIRE DEPARTMENT

Side "B"
PARAMEDIC ENGINE COMPANY
EXCELENCE IN SERVICE
WWW.FIRE@CITYOFPRESCOTT.NET (white overlay on stripe)

Side "C"
(Not in gold leaf)
STAY BACK 300 FEET

Side "D"
PARAMEDIC ENGINE COMPANY
EXCELENCE IN SERVICE
WWW.FIRE@CITYOFPRESCOTT.NET (white overlay on stripe)

DOOR LOGOS
Customer supplied factory installed logos shall be applied to each front door of the cab.

REFLECTIVE STRIPE
Prescott's custom designed 3M brand reflective stripe shall be affixed to the perimeter of the apparatus. The strip shall conform to NFPA reflectivity requirements. The location of reflective shall be determined at the pre-engineering conference

SECTION VIII - ACCESSORIES

MISCELLANEOUS EQUIPMENT

Each section shall have the added cost associated to mark down. In the event that our suppliers may be able to deliver said items to us at less cost, we reserve the right to remove said item from the overall proposal. Said item would then be the City of Prescott's responsibility to furnish. Items listed may have been listed earlier in this spec.

The following items shall be furnished with the apparatus at time of delivery:

One (1) DUO-Safety 24' extension ladder, DUO-Safety 14' roof ladder, 10' attic DUO-Safety folding ladder.

COST: _____

Two Task Force Tips model AX3SP-NX Jumbo Ball Valves with 6" intake and 4" swivel Storz.

COST: _____

Four (4) Streamlight Survivor division 2 flashlight model 90064.

COST: _____

Two (2) Streamlight Litebox Rechargeable Lantern Flashlight-dual filament-vehicle mount system model 45706.

COMPLY
Y N

COST: _____

- One (1) 20 pound dry chemical extinguisher – ABC, and one (1) Amerex Model 250 with air aspirated nozzle 2.5 gallon pressure AFFF. Two (2) 2-1/2 gallon fire extinguisher vehicle mounts. Location to be determined at preconstruction conference.

COST: _____

- Two (2) Akron Brass pike poles model one (1) model PP-6' and one (1) PP-10'. Two (2) Akron Brass dry wall hooks. One (1) model PP-6'-DWH and one (1) model PP-10'-DWH.

COST: _____

- Akron Brass Model 3431 Apollo Hi-Riser monitor to include Akromatic nozzle model 5160, stacked tip 2499, and LDH deluge base.

COST: _____

- Three (3) Red Head Brass hydrant and spanner wrench sets model #148-3. Location will be one on each pump panel, and one on the tail board. The exact location to be determined at preconstruction conference.

COST: _____

- Three (3) Red Head Brass Storz spanner wrench sets model #S-146-2. Location will be one on each pump panel, and one on the tail board. The exact location to be determined at preconstruction conference.

COST: _____

- Tool securing will be done by PAC Tool Mounts
Mount and location to follow:
Eight (8) PAC Handlelok P/N 1004 in cabinet L2 (left side over the wheels). They will secure a sledge hammer, halligan, kelly tool, and a 4' "D" handle pike pole.
One (1) PAC Hooklok P/N 1001 for a bolt cutter mounted in L2
One (1) PAC Flathead Axe Pocket Kit P/N K5011 mounted on the left inside rear of cab. Location to follow meeting.
One (1) PAC Pickhead Axe Pocket Kit P/N K5012 mounted on the right inside rear of cab. Location to follow meeting.

COST: _____

- Amkus AMK-30C spreader, AMK-25 shears with optional D-ring handle, AMK-30R ram, ram accessory kit 100004751800, Chain kit 392200462010, GBZA-XLO power unit, and two extension hose with quick connect couplings at both ends.

COST: _____

- Amkus extrication tools will be mounted in the horizontal position in compartment R3 (right rear) on the middle shelf. Mounts needed:
spreader-spreader base pocket P/N 1026, and adjustable kit P/N K5006
Cutter- adjustable kit P/N K5006

COMPLY
Y N

Ram-adjustable kit P/N K5006
Hose universal hanger 1019 mounted on the forward wall of compartment below the middle shelf.

COST: _____

Three (3) Motorola XTS 1500 portable radios

COST: _____

Stihl MS441 chain saw
One Tempest-Edge KIS-40 depth guide for chain saw.
One Stihl TS400 Rotary saw

COST: _____

Vent fan PPV DST-3P4

COST: _____

One Honda generator EG-3500

COST: _____

HOSES:
Angus hose:
1000 feet (100 foot sections) LDH 4" with Storz ends
800 feet (50 foot sections) 2-1/2" HI-Combat Light with NH fittings.
350 feet (25 foot sections) 1-3/4" Fire Power II Green with 1-1/2" NH fittings.
350 feet (25 foot sections) 1-3/4" Fire Power II Red with 1-1/2" NH fittings.
100 feet (one section) 1-1/2 Super Inch Yellow with 1-1/2" NH fittings.

COST: _____

NOZZLES:
Three Task Force Tips (TFT) 1.5 fog FTS250PS
One TFT 1.5 fog FTS200PS
Two TFT 1.5 fog FTS200S
One TFT 2.5 fog MDJ18A
One TFT 2.5 stacked tip FS-3STACK with H-2VPP play pipe
One TFT Piercing applicator S-PN with F-140FP 1.5 ball valve

COST: _____

DECK GUN:
Akron Brass Model 3431 Apollo Hi-Riser monitor
Akron Brass Akromatic nozzle model 5160
Akron Brass 4" storz deluge base for the monitor 3416
Akron Brass Discharge Pipe 3488 and Quad Stack Tip 2499

COST: _____

SALVAGE COVER AND EXCESSORIES:

COMPLY
Y N

Must be flame resistant and meet NFPA 701-99
Two 12'X18' salvage cover
One 3'X18' hall runner
Two 6'X8' debris bags

COST: _____

SCBA:

Four ISI Viking DXL model SCBA's with the radio interface ability and cable. Mask not needed. Total of 7 4500PSI 45 minute bottles.

COST: _____

TOOLS:

Two Akron Brass pick head axes PHY-6
Two Akron Brass flat head axes FHY-6
Two Akron Brass #10 sledge FSY-10
One Akron Brass Pulaski Axe WPL-4
One Akron Brass 48" pinch point bar PPB-48 with mounts
One Akron Brass scoop shovel AS-27D
One Akron Brass square point shovel SS-48F
One Akron Brass 18" squeegee UL-SQ-60F
One Akron Brass corn broom FB-42
Four Akron Brass hose and ladder strap style 78
Two Fire Hooks Unlimited PROMAXX 24
Two Fire Hooks Unlimited PROBAR 30
Fire Hooks Unlimited bolt cutters one 18" and one 30"
One SLIMBOW car opening tool kit

COST: _____

FITTINGS AND APPLIANCES:

Red Head lightweight aluminum:
4" Storz to 4.5" NHF
4" Storz to 6" LHF
4" Storz to 2.5" female NH
1.5" double Male NH
Four 2.5" F to 1.5" M NH reducers
Three 2.5" double female NH
One 4" Storz to 2.5" NH gated wyes
Two 2.5" NH to 1.5" NH gated wyes
One 1.5" NH to 1.5" NH Gated wye
One LDH hose clamp with mounting bracket
One 2.5" hose clamp with mounting bracket
One Task Force Tip in-line educator model 3250

4" Storz to 4" male NH
4" Storz to 3" Female NH
1.5" double Female NH
1.5" F to 1" M
1" F to .75" M
Three 2.5" double male NH

COST: _____

MISCELLANEOUS EQUIPMENT:

SSC Super Z tire chains for rear tires.
Akron Brass portable lights E-500PL
Two 100' extension cords 20 amps
One 1 gallon gas can

COST: _____

COMPLY
Y N

SECTION IX - PROPOSAL OPTION

We may entertain an option to buy a Demo, or Manufacture Spec apparatus that closely meets this proposal. Minimum requirements shall be:

At least 180" wheel base

Cummins ISL (1200 ft pd torque), ISM, or Cat C-9

Allison EVS 3000/4000

At least 1250 gpm pump

At least 500 gallon tank

Foam system (with two holding tanks)

Multiplex wire system

LED Emergency lighting

Driver's side pump panel

At least a MFD cab

2.0 Solicitation Process Requirements/Tentative Timeline

2.1 Communications with the City

All communications regarding this solicitation must be directed to the City's Buyer. The City's buyer for this solicitation is:

Dawn M. Foster, Purchasing Manager
City of Prescott
Purchasing Services
Phone: 928-777-1203
Fax: 928-777-1234
TDD 928-777-1100
e-mail: dawn.foster@cityofprescott.net

Unless authorized by the City's Buyer, no other City official or employee is empowered to speak for the City with respect to this solicitation. Proposers are advised that the City shall not be bound by information, clarifications, or interpretations from other City officials or employees. Proposers are cautioned against contacting any City official or employee other than the City's Buyer. Failure to observe this requirement may be grounds for rejection of Proposer's proposal.

2.2 Schedule

Solicitation Advertisement		Sunday, June 8, 2008
Proposals Due	Time:	Thursday, July 11, 2008 at 2:00 PM
	Location:	Office of the City Clerk 201 S. Cortez St. Prescott, AZ 86302

2.3 Questions and Requests for Addenda

Proposers who have questions about or suggestions for changes to this solicitation may direct them to the City's Buyer in writing by fax or email.

Questions and requests for addenda must be received by the City's Buyer no later than the date and time listed in Section 2.2. Questions received after this time will not be considered or answered.

Failure by a Proposer to request clarification of any inadequacy, omission or conflict shall not relieve the Proposer of the responsibility of being in compliance with the solicitation.

2.4 City Answers and Addenda

Changes to this solicitation will be made only by formal written addenda issued by the City's Buyer. Any such addenda and City answers to questions will be issued no later than the date and time listed in Section 2.2. Addenda and City answers will be emailed or faxed to all Proposers who submitted a letter of interest.

Changes to this solicitation may be made by the City if, in the sole judgment of the City, the changes will not compromise the City's objectives in this acquisition.

All addenda issued by the City shall become a part of the specifications of this solicitation, and will be made part of the resulting agreement.

2.5 Proprietary Material

A Proposer shall clearly mark any proprietary information contained in its proposal with the words "proprietary information." Proposer shall not mark any Solicitation Form as proprietary. Marking

all or nearly all of a proposal as proprietary may result in rejection of the proposal.

Proposers should be aware that the City is required by law to make its records available for public inspection. The Proposer, by submission of materials marked proprietary, acknowledges and agrees that the City will have no obligation to advocate for non-disclosure in any forum or any liability to the Proposer in the event that the City must legally disclose these materials.

2.6 Multiple Proposals

A Proposer may submit multiple proposals for any solicitation however; each proposal must be submitted separately (in its own complete package) from the others.

2.7 Delivery of Proposals

Sealed proposals (one (1) original and four (4) copies) must be received at the Office of the City Clerk no later than the date and time listed in Section 2.2.

If the proposal is delivered by the U.S. Postal Service, the proposal should be addressed to:

Elizabeth Burke, City Clerk
City of Prescott
PO Box 2059
Prescott, AZ 86302

If the proposal is delivered by an entity other than the U.S. Postal Service, the proposal should be addressed to:

Elizabeth Burke, City Clerk
City of Prescott
201 S. Cortez St.
Prescott, AZ 86303

Proposer shall enclose proposal (one (1) original and four (4) copies) in a sealed envelope. The envelope should identify the Proposer's name, mailing address, Solicitation and Title, and the time and date due.

The City shall not consider late proposals, telegraphic (fax) or telephone proposals.

Proposer is solely responsible for ensuring that proposal(s) are delivered on time. Delays caused by any delivery service, including the U.S. Postal Service, will not be grounds for an extension of the deadline for receipt of proposals. Proposals received after the deadline will be returned unopened.

2.8 Cost of Proposals

The City shall be not be liable for any costs incurred by Proposer in the preparation and submittal of a proposal(s) in response to the solicitation or in the participation of any part of the acquisition process.

2.9 Errors in Proposals

Proposer is responsible for all errors or omission in their proposals, and any such errors or omission will not serve to diminish their obligations to the City.

2.10 Withdrawal of Proposals

A proposal may be withdrawn by written request of the Proposer prior to the proposal due date and time listed in Section 2.2. No proposal may be withdrawn for a period of 90 calendar days after the proposal due date and time.

2.11 Changes in Proposals

Prior to the proposal due date and time listed in Section 2.2, a Proposer may make changes to its proposal provided the change is initialed and dated by the Proposer. Corrections and/or modifications received after the closing time specified will not be accepted.

2.12 Rejection of Proposals

The City reserves the right to reject any and all proposals and to waive any immaterial defects and irregularities in proposals.

2.13 Disposition of Proposals

All materials submitted in response to the solicitation, including samples, shall become the property of the City upon delivery to the City.

2.14 Incorporation of Solicitation and Response in Agreement

This solicitation, including all attachments and addenda, and all promises, warranties, commitments and representations in the successful proposal shall be binding and shall become obligations of the agreement.

2.15 Protests

Any protest of the solicitation process must be filed by 5:00 p.m. on the third business day after solicitations are opened. All such protests shall be in writing, contain a complete statement of the grounds for protest, and be filed with the Purchasing Manager, PO Box 2059, Prescott, AZ 86302, FAX 928-777-1234.

Protesting parties must demonstrate as part of their protest that they made every reasonable effort within the schedule and procedures of this solicitation to resolve the basis or bases of their protest during the solicitation process, including asking questions, seeking clarifications, requesting addenda, and otherwise alerting the City to perceived problems so that corrective action could be taken prior to the selection of the Apparent Successful Proposer(s). The City will not consider any protest based on items that could have been or should have been raised prior to the deadline for submitting questions or requesting addenda. The filing of a protest shall not prevent the City from executing an agreement with any other proposer.

2.16 Proposal Submittal

Proposal (one (1) original and two (2) copies) must be sealed and the envelope must clearly indicate the information as described in Section 2.9. Proposer must fully complete and submit the following documents:

- 1) Proposal Form A – Solicitation Response Cover Sheet
- 2) Proposal Form B - Proposal Certification
- 3) Proposal Form C - Non-Collusion Certificate
- 4) Proposal Form D - Contractor Questionnaire
- 5) Proposal Form E – Certificate of Ownership
- 6) Proposal Form F – Proposer Optional Information
- 7) Proposal Form G – Proposer Qualifications, Representations and Warranties

3.0 General Contract Terms and Conditions

1. **Entire Agreement:** This contract, including all attachments referenced herein, constitutes the entire agreement between the City and the Contractor. The City's RFQ/RFP, all addenda to the RFQ/RFP, and the Contractor's response to the RFQ/RFP are explicitly included in this contract. Where there is any conflict among or between any of these documents, the controlling document shall be the first listed in the following sequence: the most recently issued Contract amendment; the Contract; the most recently issued addendum to the City's RFQ/RFP; the City's RFQ/RFP; and the Contractor's response to the RFQ/RFP.

2. **Freight:** Prices include freight prepaid and allowed. The Contractor assumes the risk of every increase, and receives the benefit of every decrease, in delivery rates and charges.
3. **Title:** Prices are F.O.B. destination. Title to items and risk of loss remain with Contractor until City receives items at the delivery point.
4. **Schedule:** Unless the City's Purchasing Agent requests a change in schedule, the Contractor shall deliver the items or render the services as stated in the Contract. At the City's option, the Contractor's failure to timely deliver or perform may require expedited shipping at the Contractor's expense, or may be cause for termination of the Contract and the return of all or part of the items at the Contractor's expense. If the Contractor anticipates difficulty in meeting the schedule, the Contractor shall promptly notify the City's Purchasing Agent of such difficulty and the length of the anticipated delay.
5. **Payment:** Invoices will be paid according to early payment discount terms, or if no early payment discount is offered, thirty (30) days after the City's receipt and acceptance of the goods or completion and acceptance of the services. Payment periods will be computed from either the date of delivery of all goods ordered, the completion of all services, or the date of receipt of a correct invoice, whichever date is later. This section is not intended to restrict partial payments that are specified in the contract. No payment shall be due prior to the City's receipt and acceptance of the items identified in the invoice therefore.
6. **Price Warranty:** The Contractor warrants that the prices for the items sold to the City hereunder are not less favorable than those currently extended to any other customer for the same or similar items in similar quantities. The Contractor warrants that prices shown on this Contract are complete, and that no additional charge of any type shall be added without the City's express written consent.
7. **Warranties:** The Contractor warrants that all goods are merchantable, comply with the City's specifications, and are fit for the City's intended use; all goods comply with all applicable safety and health standards established for such products; all goods are properly packaged; and all appropriate instructions or warnings are supplied.
8. **Equal Employment Opportunity:** During the term of this Contract, the Contractor agrees as follows: The Contractor will not discriminate against any employee or applicant for employment because of creed, religion, race, color, sex, marital status, sexual orientation, gender identity, political ideology, ancestry, national origin, or the presence of any sensory, mental or physical handicap, unless based upon a bona fide occupational qualification. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their creed, religion, race, color, sex, national origin, or the presence of any sensory, mental or physical handicap. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer, recruitment or recruitment advertising layoff or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship.
9. **Diversity:** The City encourages the Contractor to employ a workforce reflective of the region's diversity.
10. **Discrimination in Contracting:** The Contractor shall not create barriers to open and fair opportunities for subcontractors and suppliers in obtaining or competing for contracts and subcontracts as sources of supplies, equipment, construction and services. In considering offers from and doing business with subcontractors and suppliers, the Contractor shall not discriminate on the basis of race, color, creed, religion, sex, age, nationality, marital status, sexual orientation or the presence of any mental or physical disability in an otherwise qualified disabled person.
11. **Record-Keeping:** The Contractor shall maintain, for at least 12 months after expiration or earlier termination of the term of this Contract, relevant records and information necessary to document the Contractor's utilization of other businesses as subcontractors and suppliers in this contract and in its overall public and private business activities. The Contractor shall also maintain all written quotes, proposals, estimates, or proposals submitted to the Contractor by all businesses seeking to participate as subcontractors or suppliers in the contract. The City shall have the right to inspect and copy such records. If this Contract involves federal funds, the Contractor shall comply with all record-keeping requirements set forth in every applicable federal rule, regulation and statute referenced in the contract documents.

12. **Publicity:** The Contractor shall not advertise or publish the fact that the City has contracted to purchase items from the Contractor without the City's prior written approval.
13. **Proprietary and Confidential Information:** The Contractor acknowledges that the City is required by law to make its records available for public inspection, with certain exceptions. City staff believe that this legal obligation would not require the disclosure of proprietary descriptive information that contains valuable designs, drawings or formulas. The Contractor, by submission of materials marked proprietary and confidential, nevertheless acknowledges and agrees that the City will have no obligation or any liability to the Contractor in the event that the City must disclose these materials by law.
14. **Indemnification:** To the extent permitted by law, the Contractor shall protect, defend, indemnify and hold the City harmless from and against all claims, demands, damages, costs, actions and causes of actions, liabilities, judgments, expenses and attorney fees, resulting from the injury or death of any person or the damage to or destruction of property, or the infringement of any patent, copyright, or trademark, arising out of the work performed or goods provided under this Contract, or the Contractor's violation of any law, ordinance or regulation, except for damages resulting from the sole negligence of the City.
15. **Insurance:** The Contractor shall secure and maintain, at all times during the term of this Contract, at its own expense, a policy or policies of insurance known as: **(1) Commercial General Liability** written on an insurance industry standard occurrence form (ISO form CG 00 01) or equivalent including premises/operations, products/completed operations, personal/advertising injury, contractual liability, and independent contractors liability; **(2)** if any vehicle is used in the performance of this Contract, a policy of **Business Automobile Liability** written on an insurance industry standard form (ISO form CA 00 01) or equivalent, including coverage for owned, non-owned, leased or hired vehicles; and **(3)** if any work under this Contract will be performed by a resident of the state of Arizona, **Worker's Compensation** ("Industrial Insurance") as required by the State of Arizona. The insurance as provided under items (1) and (2) above shall be endorsed to include The City of Prescott, its officers, elected officials, employees, agents and volunteers as an **Additional Insured** per ISO form CG2010 11/85 or CG2026 or equivalent, and to not permit reduction or cancellation by the insurer without forty-five (45) days prior written notice to the City. The Contractor's insurance shall be primary as respects the City, and any other insurance maintained by the City shall be excess and non-contributing with the Contractor's insurance.
16. **Compliance with Law:** The Contractor, at its sole cost and expense, shall perform and comply with all applicable laws of the United States and the State of Arizona; the Charter, Municipal Code, and ordinances of The City of Prescott; and rules, regulations, orders, and directives of their respective administrative agencies and officers.
17. **Licenses and Similar Authorizations:** The Contractor, at no expense to the City, shall secure and maintain in full force and effect during the term of this Contract all required licenses, permits, and similar legal authorizations, and comply with all related requirements.
18. **Taxes:** The Contractor shall pay, before delinquency, all taxes, levies, and assessments arising from its activities and undertakings under this Contract; taxes levied on its property, equipment and improvements; and taxes on the Contractor's interest in this Contract.
19. **Americans with Disabilities Act:** The Contractor shall comply with all applicable provisions of the Americans with Disabilities Act of 1990 (ADA) in performing its obligations under this Contract. In particular, if the Contractor is providing services, programs, or activities to City employees or members of the public as part of this Contract, the Contractor shall not deny participation or the benefits of such services, programs, or activities to people with disabilities on the basis of such disability. Failure to comply with the provisions of the ADA shall be a material breach of, and grounds for the immediate termination of, this Contract.
20. **Adjustments:** The City's Purchasing Agent at any time may make reasonable changes in the place of delivery, installation or inspection; the method of shipment or packing; labeling and identification; and ancillary matters that Contractor may accommodate without substantial additional expense to the City.

21. **Amendments**: Except for adjustments authorized above, modifications or amendments to the Contract may only be made by a change order or by written document signed by or for both parties. Unless Contractor is otherwise notified, the City's Purchasing Agent shall be the City's authorized agent.
22. **Assignment**: Neither party shall assign any right or interest nor delegate any obligation owed without the written consent of the other, except Contractor may assign the proceeds of this Contract for the benefit of creditors upon 21 days advance written notice to the City.
23. **Binding Effect**: The provisions, covenants and conditions in this Contract apply to bind the parties, their legal heirs, representatives, successors, and assigns.
24. **Waiver**: The City's failure to insist on performance of any of the terms or conditions herein or to exercise any right or privilege or the City's waiver of any breach hereunder shall not thereafter waive any other term, condition, or privilege, whether of the same or similar type.
25. **Applicable Law**: This Contract shall be construed under the laws of the State of Arizona. The venue for any action relating to this Contract shall be in the Superior Court for Yavapai County, State of Arizona.
26. **Remedies Cumulative**: Remedies under this Contract are cumulative; The use of one remedy shall not be taken to exclude or waive the right to use another.
27. **Severability**: Any invalidity, in whole or in part, of any provision of this Contract shall not affect the validity of any other of its provisions.
28. **Gratuities**: The City may, by written notice to the Contractor, terminate Contractor's right to proceed under this Contract upon one (1) calendar day's notice, if the City finds that any gratuity in the form of entertainment, a gift, or otherwise was offered or given by the Contractor or any agent thereof to any City official, officer or employee.
35. **Termination**:
- 35.1. **For Cause**: Either party may terminate this Contract in the event the other fails to perform its obligations as described herein, and such failure has not been corrected to the reasonable satisfaction of the other in a timely manner after notice of breach has been provided to such other party.
- 35.2. **For Reasons Beyond Reasonable Control of a Party**: Either party may terminate this Contract without recourse by the other where performance is rendered impossible or impracticable for reasons beyond such party's reasonable control such as but not limited to an act of nature; war or warlike operations; civil commotion; riot; labor dispute including strike, walkout, or lockout; sabotage; or superior governmental regulation or control.
- 35.3. **For Public Convenience**: The City may terminate this Contract in whole or in part whenever the City determines that such termination is in its best interest (including but not limited to for lack of continuing appropriations). In such a case the Contractor shall be paid for all items accepted by the City.
- 35.4. **Notice**: Notice of termination shall be given by the party terminating this Agreement to the other not less than ten (10) working days prior to the effective date of termination.
36. **Major Emergencies or Disasters**: The following provision shall be in effect only during major emergencies or disasters. The City is committed to preparing thoroughly for any major emergency or disaster situation. As part of its commitment, the City is contracting with the Contractor under the following terms and conditions: Contractor shall provide to the City, upon the City's request, such goods and/or services at such time as the City determines. In the event the Contractor is unable to meet the delivery date commitment due to circumstances beyond the reasonable control of the Contractor, the Contractor shall make such delivery as soon as practicable. If the Contractor is prevented from making such delivery to the requested delivery location due to circumstances beyond its reasonable control, the Contractor shall immediately assist the City in whatever manner is reasonable to gain access to such goods and/or services.

In the event that the Contractor is unable to provide such goods and/or services as requested by the City, the Contractor may offer to the City limited substitutions for its consideration and shall provide such substitutions to the City as required above, provided the Contractor has obtained prior approval from the City for such substitution. The Contractor shall charge the City the price determined in this Contract for the goods and services provided, and if no price has been determined, it shall charge the City a price that is normally charged for such goods and/or services (such as listed prices for items in stock). In the event that the City's request results in the Contractor incurring unavoidable additional costs and causes the Contractor to increase prices in order to obtain a fair rate of return, the Contractor shall provide the City with appropriate documentation of the additional costs. The Contractor acknowledges that the City is procuring such goods and/or services for the benefit of the public. The Contractor, in support of public good purposes, shall consider the City as a customer of first priority and shall make its best effort to provide to the City the requested goods and/or services in a timely manner. For purposes of this Contract, a "major emergency" or "disaster" shall include, but is not limited to a storm, high wind, earthquake, flood, hazardous material release, transportation mishap, loss of any utility service, fire, terrorist activity or any combination of the above.

4.0 Standard Proposal Information

4.1 Default by Proposer

In case of default by the Proposer, the City of Prescott may procure the items or service from other sources and may deduct from any monies due or that may thereafter become due to the Proposer the difference between the price named in the contract or purchase order and the actual cost thereof to the City of Prescott. Prices paid by the City shall be considered the prevailing market price at the time such purchase is made. Periods of performance may be extended if the facts as to the cause of delay justify such extension in the opinion of the Purchasing Agent.

4.2 Cash Discounts

In connection with any cash discount specified on this proposal, time will be computed from the date of complete delivery of the supplies, equipment or services as specified or from the date correct invoices are received in the City Finance office if the latter date is later than the date of delivery. For the purpose of earning the discount, payment is deemed to be made on the date of mailing of the City warrant or check.

4.3 Warranty

Manufacturer's warranties shall remain in effect. All equipment purchased shall be purchased from one (1) vendor. That one vendor shall be fully responsible for all warranty performance relating to any part of component of the purchased equipment. The vendor's responsibility shall include all warranty involving sub-contractors. The vendor shall supply a warranty on all parts and workmanship from the initial delivery date. The vendor shall guarantee further that the equipment to be supplied complies with all applicable regulations.

4.4 Litigation

The parties hereto expressly covenant and agree that in the event of a dispute arising from this Agreement, each of the parties hereto waives any right to a trial by jury. In the event of litigation, the parties hereby agree to submit to a trial before the Court. Neither party shall be entitled to an award of attorneys' fees, either pursuant to the Contract or another other state or federal statute.

4.5 Cooperative Use of Contract

This contract may be extended for use by other municipalities, school districts and government agencies in the State of Arizona with the approval of the contracted vendor. Any such usage by other entities must be in accordance with the statutes, codes, ordinances, charter and/or procurement rules and regulations of the respective government agency.

4.6 Brand Names

Brand names are only used for reference to indicate character or quality desired unless otherwise indicated.

5.0 Instructions for Solicitation Forms

5.1 Form A - Solicitation Response Cover Sheet

Proposer shall complete, sign, and submit Form A as the first page of the proposal package.

5.2 Form B - Proposal Certification

Proposer shall complete, sign, and submit Form B

5.3 Form C - Non-Collusion Certificate

Proposer shall complete, sign, and submit Form C.

5.4 Form D - Contractor Questionnaire

Proposer shall complete, sign, and submit Form D.

5.5 Form E - Certificate of Ownership

Proposer shall complete, sign, and submit Form F completely and accurately stating the names and addresses of all persons, firms, corporations, partnerships or other associations having any direct or indirect financial interest in the Proposer's business and the nature and extent of each such interest.

5.6 Form F - Proposer Optional Information

Form F is for informational purposes only, is not required to be answered or submitted, and responses will not be taken into consideration in proposal evaluation, or in agreement award or administration. Proposer may complete, sign, and submit Form F.

5.7 Form G - Proposer Qualifications, Representations and Warranties,

5.7.1 Proposer shall complete and submit Solicitation Form G. Proposer shall provide additional information as required.

5.7.2 The City reserves the right to inspect any of Proposer's facilities and equipment after the proposal due date and time listed in Section 2.2. The Proposer shall make such facilities and equipment available for the City's inspection within eight business hours of the City's request. The City may require additional information concerning a Proposer's facilities, equipment, personnel, and procedures. The Proposer shall supply such information within the time noted in the City's request.

5.7.3 The City shall consider awarding agreements only to responsible Proposers. Responsible Proposers are those that have, in the sole judgment of the City, the financial ability, character, reputation, resources, skills, capability, reliability, and business integrity necessary to perform the requirements of the agreement.

5.7.4 In determination of responsibility, the City may consider all information available to the City, whether specifically provided by the Proposer in response to this solicitation or other information otherwise available to the City in evaluating the responsibility of the Proposer. Such information may include, but is not limited to, experience and history of the City with current and/or prior contracts held by the Proposer with the City or with other agencies, references provided by the Proposer to the City, information provided by the Proposer as part of the solicitation responses, and information not specifically provided by the Proposer but is otherwise available to the City and has merit in consideration of responsibility, in the opinion of the City. The evaluation of responsibility shall be determined by the City and shall be in the sole opinion of the City. Such evaluation by the City shall be final and not

subject to appeal.

Furthermore, no agreement will be awarded to a Proposer if any owner of such Proposer has been convicted within the past ten years of a crime involving dishonesty or false statements, or if the Proposer has unsatisfied tax or judgment liens.

5.7.5 Proposer shall provide (2) references, a sub-contractors list (if applicable) and certify there are no unsatisfied tax liens or judgements on record. Proposer shall complete, sign, and submit Form G.

Form A – Solicitation Response Cover Sheet



City of Prescott
Solicitation Response

Solicitation Number:
08PFD0029

Description:..... 1500 GPM Pumper Fire

Engine _____

Proposal checklist:

- Original Forms A through G completed and submitted
- (4) copies of proposal included

Business Name: _____

Business Address: _____

Business Phone: (_____) _____

Business Contact: _____

Form B – Proposal Certification

Proposer Name: _____

The undersigned Proposer hereby certifies as follows:

B.1 That he/she has read The City of Prescott’s Solicitation, appendices, attachments and the following Addenda (if applicable) in their entirety and to the best of his/her knowledge has complied with the mandatory requirements stated therein.

Addendum	Issue Date
_____	_____
_____	_____

B.2 That he/she has had opportunity to ask questions regarding the solicitation, and that such questions having been asked, have been answered by the City.

- B.3** That the Proposer’s proposal consists of the following:
1. Form A – Solicitation response cover sheet
 2. Form B – Proposal Certification
 3. Form C – Non-Collusion Certificate
 4. Form D – Contractor Questionnaire
 5. Form E – Certificate of Ownership
 6. Form F – Optional Proposer Information
 7. Form G – Proposer Qualifications, Representations and Warranties

B.4 That the Proposer’s proposal is valid for 90 days.

Dated this _____ **day of** _____ **2008.**

Signature

Title

Form C – Non-Collusion Certificate

Proposer Name: _____

The undersigned Proposer hereby certifies as follows:

To the best of his/her knowledge, the person, firm, association, partnership or corporation herein, has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive pricing in the preparation and submission of a proposal to The City of Prescott for consideration in the award of this solicitation.

Dated this _____ day of _____ 2008.

Signature

Title

Form D – Proposer Questionnaire

Yes - No

- 1. Has the City of Prescott or other governmental entity incurred costs as a result of contested change order (s) from the undersigned company?
- 2. Has the City of Prescott or other governmental entity been involved in litigation relative to contract performance with the undersigned company?
- 3. Has the undersigned company failed to meet proposal specifications or time limits on other contracts?
- 4. Has the undersigned company abandoned a contract or refused to perform without legal cause after submitting a proposal?
- 5. Has the undersigned company had proposalding errors or omissions in two or more proposal submissions within a thirty-six month period?
- 6. Has the undersigned company failed to perform or performed unsatisfactory of two or more contracts within a thirty-six month period.
- 7. Does the undersigned company have adequate equipment, personnel and expertise to complete the proposed contract?
- 8. Does the undersigned company have a record of safety violations in two or more contracts within a thirty-six month period?
- 9. Does the undersigned have a criminal offense as an incident to obtaining or attempting to obtain a public or private contract or subcontract, or in the performance of such a contract or subcontract within a ten-year period?
- 10. Has the undersigned company been convicted of a criminal offense within a ten-year period of embezzlement, theft, bribery, falsification or destruction of records, receiving stolen property, or any other offense indicating a lack of business integrity or business honesty which might affect responsibility as a municipal contractor?
- 11. Has the undersigned company been convicted of state or federal antitrust statues within a ten-year period arising out of submission of proposals or proposals?
- 12. Has the undersigned company been disbarred or a similar proceeding by another governmental entity?

If you answered “yes” to Items 1-6 or 8-12 or answered “no” to Item 7, please attach a full explanation to this questionnaire.

Company: _____

Address: _____

Name: _____ Title: _____
(please print) (please print)

Signature: _____ Date: _____

Form E – Certificate of Ownership

Proposer Name: _____

The undersigned Proposer hereby certifies as follows:

To the best of his/her knowledge, the person, firm, association, partnership or corporation herein, are the only person, firms, corporations, partnerships, or other associations having any direct or indirect financial interest in the Proposer’s business as legal or equitable owner, creditor (except current bills for operating expenses), or holder of any security or other evidence of indebtedness.

Dated this _____ **day of** _____ **2008.**

Signature

Title

Form F – Proposer Optional Information

Proposer Name: _____

Proposal Form F is for informational purposes only, is not required to be answered or submitted, and responses will not be taken into consideration in proposal evaluation, or in agreement award or administration. Proposer may complete, sign, and submit Proposal Form F.

Affirmative Efforts to Utilize WMBEs – The City encourages the utilization of woman- and minority-owned businesses and the participation of such businesses in City solicitations. The City requests Proposer to designate whether it is a State certified woman or minority owned business (WMBE), or whether the Proposer desires to self-identify as owned by women or minorities.

WMBE Status:

Certification:

Women’s Business Enterprise
 Minority Business Enterprise
 Minority and Women’s Business Enterprise
 Disadvantaged Business Enterprise

WMBE Certification No. _____
DBE Certification No. _____

Ethnicity:

Asian American
 African American
 Hispanic

Native American
 White

Gender: Male Female

Self-Identification: If Proposer is not WMBE or DBE Certified, please select one category of ownership that best describes the ownership of Proposer:

Is Proposer at least 51% owned by one or more women? Yes No

Is Proposer at least 51% minority owned? Yes No

Ethnicity:

Asian American
 African American
 Hispanic

Native American
 White

Gender: Male Female

Form G – Proposer Qualifications, Representations and Warranties

Proposer Name: _____

The undersigned Proposer hereby certifies as follows:

- G1 Taxes and Liens** - Proposer has no unsatisfied tax or judgment lien on record.
- G2 Subcontractors** – Proposer submits as Attachment 4 to this Proposal Form G a list of all subcontractors it will use in performing the requirements of the agreement resulting from this solicitation. A subcontractor is any separate legal entity used to perform requirements of the proposed agreement. The list shall include the firm’s name, contact person and title, mailing address, telephone number, fax number and a description of the service(s) to be subcontracted. Proposer shall also attach a copy of the letter from the subcontractor stating its commitment to perform the services(s) subcontracted.
- G3 References** – The City will enter into an agreement only with a Proposer(s) having a reputation of satisfactory performance. The Proposer’s ability to provide timely service; knowledgeable, conscientious, and courteous staff; reasonable care and skill; invoicing consistent with contract pricing, etc., are important to the City. Proposer shall provide information for two clients, other than the City of Prescott, that presently contract with Proposer for similar goods or services:

Reference #1

Firm Name: _____
Address: _____
Contact Person: _____
Phone Number: _____

Reference #2

Firm Name: _____
Address: _____
Contact Person: _____
Phone Number: _____

Note: The proposal evaluators may contact the customer references, as well as any other customers or customer employees including The City of Prescott. A Proposer with unsatisfactory references may have its proposal rejected.

- G4 Proposer’s Examination** - Proposer has made its own examination, investigation and research regarding the requirements of the solicitation including but not limited to the work to be done, services to be performed, any conditions affecting the work and services, the type and quantity of labor, equipment and facilities necessary to perform. Proposer fully understands the character of the work and services, the manner in which payment is to be made, the City of Prescott standard terms and conditions, and the solicitation. Proposer acknowledges and agrees that it has satisfied itself by its own examination, investigation and research, and that it will make no claim against the City because of erroneous estimates, statements, or interpretations made by City. Proposer hereby proposes to furnish all materials, equipment, and facilities and to perform all labor which may be required to do the work within the time required and upon the terms and conditions provided in the draft agreement and the solicitation, and at the prices as proposed.

Dated this _____ day of _____ 2008.

Signature

Title