



City of Port Jervis Fire Department
Port Jervis, New York

Request for Proposal

100 Foot Rear Mount Aerial Ladder

January 2013

City of Port Jervis Aerial Ladder RFP

1.0 Background:

The City of Port Jervis, New York Fire Department (PJFD) has convened an apparatus committee to research and procure a new rear mount ladder truck for the department. This committee has worked for many months researching concepts that we feel will provide for a ladder truck that will best serve our department and residents of the City of Port Jervis. This aerial ladder will replace a 1989 model 105 foot rear mount aerial ladder truck.

2.0 Scope of the Project:

2.1 The PJFD is interested in purchasing an NFPA compliant 100 foot minimum height aerial ladder with an eight person fully enclosed custom cab and chassis. The PJFD desires to see which vendors are capable of building an apparatus meeting the technical requirements of the RFP, providing a firm cost and delivery schedule associated for this apparatus. The RFP includes a number of requested options with pricing to be provided for consideration when determining the final configuration for the new aerial device. The PJFD through the City of Port Jervis reserves the right to accept or reject any and all bids.

2.2 The acceptance of a manufacturer's proposal and contract is subject to City Council approval and a permissive referendum. would prefer that any bidders offering an aerial device to meet the intent of the RFP would be able to provide a demonstrator or stock unit available for viewing at the TVSFD location prior to award of a final contract for the vehicle.

2.3 This Request for Proposal (RFP) has been broken down into categories: cab and chassis, body, aerial, equipment and optional items. The sections detail specifics set forth for each category.

3.0 Proposal Expectations:

Each bidder is requested to submit proposals that include the following information:

3.1 Brief history of company pertaining to designing and building fire apparatus, specifically aerial type units.

3.2 A list of five references of recent customers who have purchased a similar aerial apparatus from the company.

3.3 Manufacturer's detailed specifications for building the ladder truck described in this proposal.

3.4 A set of detailed preliminary drawings following the requirements set forth in section 11.0 of the RFP.

3.5 A firm cost to build the truck as specified in the proposal. This price should be valid for a period of ninety (90) days from the date of submission to the City of Port Jervis.

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3.6 A firm estimate of amount of time in calendar days from signing of contract to delivery of the completed apparatus.

3.7 A Dunn and Bradstreet report to validate the financial stability of the manufacturer.

4.0 Terms of RFP:

4.1 Vendor proposals are due back by no later than _____ in order to be considered for further action. Within twenty one (21) days of receipt of all on time proposals, the apparatus committee and City personnel will review each proposal and consider its accuracy and completeness. The City of Port Jervis reserves the right to choose to meet with bidder to clarify technical portions of their proposal.

4.2 The PJFD will evaluate each manufacturer's proposal for accuracy and adherence to the requirements listed within the RFP. It is not the intent of the PJFD to accept any proposal on currently built stock or demonstrator apparatus.

5.0 Communications:

5.1 The PJFD urges vendors to ask questions as needed to prepare a complete and precise proposal. The principal point of contact for this project is Chief Jeff Rhoades with contact information listed below; e-mail contact is preferred for all inquiries.

Fire Chief: Jeff Rhoades

Phone Number:

E-mail: pjfd3jsr@hotmail.com

6.0 Vehicle Life Cycle and Equality:

6.1 This apparatus will serve the City of Port Jervis for a minimum period of twenty five years. Due to the life cycle and expected in service time, as a minimum requirement the apparatus cab and chassis, body and aerial device must be manufactured by the bidder. No sub-contracting of the apparatus fabrication and painting shall be permitted. Each bidder is encouraged to supply their severe service model components where available.

6.2 The mention of items by brand name and any specific description of same are intended to convey to the bidder's understanding the minimum component quality and reliability that is required. Except where standardization, commonality, maintenance ease or uniqueness is designated by the words "NO EXCEPTIONS", items of equal type, quality, and approximate size which will conform substantially to the standard of excellence established and are of equivalent merit, strength, durability and appearance to perform the required functions are deemed eligible if approved in writing by the PJFD. It is not the purpose or intention of these specifications to eliminate any qualified bidder.

COMPLY _____ EXCEPTION _____

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7.0 Delivery:

7.1 Each bidder shall state their firm delivery date in calendar days from receipt of order from the City of Port Jervis. The aerial ladder shall be delivered during normal business hours to the PJFD headquarters. If the manufacturer is delayed in completion of the work by chassis availability, strikes, fire, or by any cause beyond the manufacturer's control, then the time of delivery shall be extended for a period of time equal to the time lost due to such delays, at no cost penalty to the City of Port Jervis. No such delivery time extension shall be made for delays unless written notice of the delay is provided to the City within seven (7) days of its commencement.

COMPLY_____EXCEPTION_____

8.0 Exceptions and Evaluation of RFP Responses:

8.1 To insure complete understanding between the bidder and the PJFD each of the specifications listed herein have a space to denote compliance with that specification. All bidders shall indicate by the letter "X" whether their specifications are in compliance (COMPLY or Y) or not (EXCEPTION on N).

8.2 Failure to complete by the letter "X" on the RFP shall be interpreted as non-compliance and the bidder has taken exception. Any exception shall be clearly noted and explained with full written detail in the bidder's specifications on a separate piece of paper. Failure to fully and clearly explain in detail any exception may render the bid informal and be cause for rejection.

8.3 No bid will be accepted from manufacturers who subcontract any portion of the fabrication, construction or finish painting of any portion of the apparatus including the chassis, body and aerial ladder.

8.4 During the RFP evaluation process by the PJFD it may be necessary to have each bidder respond to technical questions regarding their proposal. There shall be no obligation on behalf of the City of Port Jervis to award a contract to any bidder as a result of these questions and any technical information supplied to the Fire Department will be kept confidential and not shared with any other bidder.

COMPLY_____EXCEPTION_____

9.0 Bond Requirements:

9.1 Each bid shall be accompanied by a bid bond from a bonding company licensed to do business in the State of New York or certified check in the amount of ten percent (10%) of the total amount of the bid. Bonds/checks of unsuccessful bidders shall be returned within seven (7) days after award of contract or rejection of all bids. Bond/check of the successful bidder shall be returned within five (5) days after acceptance of a purchase contract.

COMPLY_____EXCEPTION_____

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9.0 Bond Requirements:

9.2 The successful vendor shall within 15 days of the notice of award, provide a performance bond in the amount of one hundred percent (100%) of the purchase contract, for the satisfactory and timely completion, as stated herein, of said contract. Failure to provide this performance bond for the full amount requested will be cause for rejection of award.

Each bidder shall include with their proposal the total cost to provide this performance bond.

COMPLY _____ EXCEPTION _____

10.0 RFP Required Documentation and Engineering Drawings:

10.1 Two (2) complete copies of the manufacturer's response to the RFP including all documentation, drawings and certifications shall be submitted. All proposals submitted shall include detailed engineering drawings with a minimum size of 11" x 17" with the following views: left & right side views of cab, chassis and body, top view of entire vehicle and rear view of body.

10.2 The drawing shall indicate the principle dimensions including: overall length, overall height and wheelbase, front bumper to center of front wheel, length and width of body, principle compartment dimensions, actual angle of approach and rear angle of departure. The drawing will become a part of the contract and reviewed at the engineering conference for written approval by the PJFD prior to construction of the apparatus.

10.3 Each bidder shall provide a complete weight analysis with the proposal indicating the estimated front and rear axle weights for the loaded vehicle including eight (8) personnel, 2500 pounds of Fire Department supplied equipment together with a full tank of fuel and all bidder supplied equipment as outlined in these specifications.

10.4 Each bid proposal shall include an electrical system draw analysis for the completed apparatus as proposed.

10.5 Each proposal shall include a turning radius report which shall show the wall to wall, curb to curb and bumper to bumper turning radius of the proposed vehicle.

10.6 These specifications shall be incorporated into the final contract between the manufacturer and the City of Port Jervis. Where there is a conflict between the bidder's proposal and these specifications the City of Port Jervis RFP specification requirements shall prevail in all areas unless specific exception has been noted and described by the bidder with their submitted proposal.

10.7 All bid packages must be provided in duplicate at the time of the bid opening for evaluation by the Fire Department to include technical data, manufacturer's specifications, blueprints, statements of warranty, Fire Department RFP with exceptions and clarifications noted and other supporting documentation.

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10.0 RFP Required Documentation and Engineering Drawings:

10.8 All requested technical documentation must be submitted with the original bid and cannot be supplied at a later date after the bid opening. This shall include the requested certifications, testing documentation, blueprints and statements of warranty.

10.9 During the bid evaluation process by the Fire Department it may be necessary to have each bidder respond to technical questions regarding their proposal. There shall be no obligation on behalf of the City of Port Jervis to award a contract to any bidder as a result of these questions and any technical information supplied to the City and Fire Department officials will be kept confidential and not shared with any other bidder.

COMPLY _____ EXCEPTION _____

11.0 Terms of Vehicle Acceptance and Payment:

11.1 The PJFD shall accept the vehicle upon delivery of the completed apparatus to the Fire Department Headquarters after all discrepancies noted during the final inspection have been successfully completed and repaired.

11.2 In addition all required documentation including aerial certification, certified weight ticket for the completed apparatus, electrical load analysis, warning light certifications and all manuals including as built wiring diagrams shall be delivered with the apparatus, prior to final acceptance and payment by the City of Port Jervis.

11.3 Payment for the apparatus shall be made in full upon delivery and acceptance as defined above. Each bidder shall submit one (1) lump sum price for the apparatus, together with individual prices for the requested alternates, shall be supplied in accordance with these specifications including the cost of the performance bond with full payment upon delivery and acceptance as noted above.

COMPLY _____ EXCEPTION _____

12.0 NFPA 1901 Compliance, Testing and Certification:

12.1 This unit and all associated equipment must comply with the NFPA 1901 standards for the apparatus type in effect at the time of contract execution. A signed certificate stating compliance shall be provided by the manufacturer. The apparatus shall also be third-party, independently, audit certified for compliance with the current edition of NFPA 1901 standards. The certification shall include all design, production, operational and performance testing of the apparatus.

12.2 The aerial device shall be tested, approved and certified by an independent third party testing agency at the manufacturer's expense. The test results details shall be forwarded to the Fire Department and copies shall be provided in PDF format at the time of the final inspection.

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12.0 NFPA 1901 Compliance, Testing and Certification:

12.3 The vehicle shall be road tested fully loaded, covering a continuous run of ten (10) miles made under average driving conditions. The apparatus shall show no loss of power or overheating. The transmission, drive shafts, front and rear axles shall run quietly and be free from abnormal vibration or noise throughout the operating range of the apparatus. The apparatus will be delivered to the City of Port Jervis driven over the road for proper break-in.

12.4 The GAWR and GVWR of the chassis will be adequate to carry the fully equipped apparatus with tanks filled, personnel weight, ground ladders, and an equipment allowance of at least 2500 pounds excluding the fixed equipment detailed in these specifications.

12.5 The difference in weight on the end of each axle, from side to side, when the vehicle is fully loaded and equipped will not exceed 7 percent. The completed apparatus when delivered shall be weighted by the Fire Department with a full tank of fuel together with all tools and equipment to verify the in service weight of the apparatus.

12.6 This shall be done prior to final acceptance by the City of Port Jervis and the release of final payment for the completed apparatus.

12.7 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 bidder within 30 days of the date of the first trials. Such trials shall be final and conclusive and failure to comply with these requirements shall be cause for rejection. Permission from the manufacturer to keep or store the apparatus in any building owned or occupied by the purchaser or its use by the City of Port Jervis for inspection and testing during the above specified period shall not constitute acceptance.

COMPLY_____ EXCEPTION_____

13.0 Engineering Conference and Final Inspection:

13.1 The bidder's proposal shall include arrangements for an engineering conference, and final inspection trips to the factory for prior to delivery of the completed apparatus. Specific timing of these trips shall be mutually agreeable between the Fire Department and the manufacturer.

13.2 The manufacturer will be responsible for all associated costs for the engineering conference and final inspection trips to the factory of the successful bidder. Four (4) personnel representing the Fire Department will be accommodated on each of the two (2) trips. Any distance greater than 250 miles shall require commercial air travel to include hotel and meal expenses.

COMPLY_____ EXCEPTION_____

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13.0 Engineering Conference and Final Inspection:

13.3 Personnel from the Fire Department during the final inspection will conduct a review of the fully completed apparatus including road, aerial ladder and operational testing. Any deficiencies noted during this inspection shall be corrected to the full satisfaction of the City of Port Jervis prior to delivery.

13.4 The manufacturer shall appoint a principal point of contact within the sales and engineering groups who will administer on behalf of the manufacturer all aspects of the contract for the apparatus.

COMPLY_____ EXCEPTION_____

14.0 Delivery and Training:

14.1 The PJFD and City of Port Jervis desires to have the completed aerial apparatus delivered within 330 to 360 calendar days from receipt of order and signed contract. Each bidder shall state their firm delivery date in calendar days from receipt of order from the City of Port Jervis. If the manufacturer is delayed in completion of the work by engine availability, strikes, fire, or by any cause beyond the manufacturer's control, then the time of delivery shall be extended for a period of time equal to the time lost due to such delays, at no cost penalty to the City.

14.2 The apparatus to insure proper break in of all components while still under warranty shall be delivered under its own power. The apparatus shall undergo a pre-delivery inspection at a local authorized dealership prior to delivery to the PJFD.

14.3 Each bidder shall identify their service and warranty facilities with their proposal to include photos and descriptions of the local service and warranty center that will be responsible for performing work on the apparatus. The number of EVT certified technicians, service trucks and facilities shall be provided for review by the PJFD.

14.4 Qualified training technician representing the manufacturer shall coordinate with the Fire Department to provide instruction for personnel in the proper operation, care and maintenance of the apparatus and equipment delivered. The technician shall conduct a complete destination inspection and correct any deficiencies identified during the inspection.

14.5 The sessions shall be planned for two (2) eight hour classes for apparatus operation and one (1) eight hour class for vehicle maintenance. One eight-hour session shall be either a Saturday or Sunday to be determined by the PJFD.

14.6 The successful bidder shall be responsible for all costs associated with the delivery training at the PJFD headquarters.

COMPLY_____ EXCEPTION_____

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15.0 Minimum Warranty Requirements:

15.1 The entire vehicle shall be the responsibility of the successful bidder. Any component other than the bidder's own is the responsibility of the bidder in regards to settling service and warranty issues.

15.2 The manufacturer shall warranty each new apparatus to be free from defects in materials or workmanship under normal use and service. This warranty shall include the necessary parts and labor to affect any required repairs during the one (1) year warranty period from the date of acceptance by the City of Port Jervis.

15.3 Chassis frame rails and cross members shall be warranted to be free from structural defects, cracking or deformation of components for the lifetime of the vehicle.

15.4 Cab and Body Structure, including the body sub frame shall be warranted against structural defects including cracking, deformation of material and corrosion for a period of ten (10) years.

15.5 Each bidder shall warrant the aerial device including ladder sections, turntable, outriggers and sub-frame components against structural defects in material and workmanship for a period of twenty (20) years.

15.6 The finish paint on the cab, body and aerial ladder sections shall be warranted against peeling, cracking and adhesion for a period of seven (7) years, without pro-rating for the entire period.

15.7 Transportation and shipping costs to successfully complete any warranty work on the apparatus shall be the responsibility of the successful manufacturer. Should the apparatus require warranty work which cannot be completed within the City of Port Jervis the cost for transportation of the apparatus shall be the responsibility of the manufacturer.

15.8 Each manufacturer shall supply specific statements of warranty with their proposal for each of these areas and shall note any specific exclusion due to age, mileage or other terms of use.

15.9 Should the apparatus be out of service for a period of more than seven (7) consecutive days including weekends to perform any warranty service the amount of out of service time will be added to the term of the warranty for the entire apparatus without penalty to the City of Port Jervis.

15.10 Any component warranty that exceeds the requested warranty time period by the City of Port Jervis shall be provided at no additional cost.

15.11 Any warranty work conducted on the apparatus shall be documented with a no cost invoice to the City of Port Jervis outlining the work conducted and any parts that were repaired or replaced. This documentation shall be supplied within seven (7) days of any completed warranty work. **COMPLY**_____ **EXCEPTION**_____

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16.0 Apparatus Dimensions:

Based upon the fire station bay space, structural conditions and street development within the first due response area the PJFD has established the following minimum and maximum dimensions for the proposed new aerial device:

	Minimum	Maximum
Wheelbase:	225 inches	240 inches
Overall Length:	480 inches	504 inches
Overall Height:	138 inches	144 inches
Overall Width of Body:	96 inches	100 inches
Front bumper extension:	12 inches	20 inches
Cab Length:	136 inches	142 inches
Aerial Ladder Operating Height:	100 feet	105-110 feet
Aerial Ladder Vertical Reach:	92 feet	100 feet
Aerial Ladder Tip Load:	500 pounds unrestricted	500 pounds unrestricted
Outrigger Spread:	14 feet	16 feet
Outrigger Jack Penetration:	12 inches	18 inches

COMPLY_____EXCEPTION_____

19.0 Cab and Chassis Requirements:

19.1 Cab general

The cab shall be a single piece tilt cab, four door flat roof design capable of seating eight (8) personnel. Bidder shall specify the height from the floor to the underside of the ceiling area. Cab length shall be a minimum of 67.00 inches from the centerline of the front axle to the rear of the cab. Cab shall be constructed of .188 inch aluminum with all aluminum sub-structure and be provided with four (4) barrier style cab doors. Bidder to specify clear door openings for both front the rear crew cab doors. Each bidder shall detail the make and model of the custom chassis being proposed and provide the principal cab dimensions. **COMPLY_____EXCEPTION_____**

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19.0 Cab and Chassis Requirements:

19.2 Cab Exterior

19.2.1 A painted steel front bumper shall be provided to include a full width .38 inch thick reinforcement channel located behind the bumper which shall be supported at both ends.

Y____N____

19.2.2 Openings in the bumper for dual air horns, Federal Q siren and electronic siren speaker will be recessed in the face of the bumper.

Y____N____

19.2.3 Each cab door shall be provided with a full height polished stainless steel serrated handrail with stainless steel scuff plate located behind each rail.

Y____N____

19.2.5 Each cab door opening shall be provided with a full height polished stainless steel scuff panel at the door jamb area to protect the painted surface of the cab.

Y____N____

19.2.6 Velvac model 2010 door mounted west coast style heated mirrors with convex lens shall be provided with remote control from the cab. An eight inch stainless steel convex down view mirror shall be provided over the right side cab windshield.

Y____N____

19.2.7 All exterior cab running lights shall be LED style. Bidder shall specify manufacturer and model of lighting being provided.

Y____N____

19.2.8 Rear wall of cab exterior shall be covered with polished aluminum tread plate full height and width of the cab with all seams sealed with silicone.

Y____N____

19.3 Cab Interior

19.3.1 Drivers seat to be Bostrum air ride with high back seat cushion.

19.3.2 Officers seat to be Bostrum SCBA seat with SecurAll bracket.

19.3.3 Two (2) rear facing Bostrum SCBA fixed seats with SecurAll bracket.

19.3.4 Four (4) forward facing Bostrum SCBA seats with flip down seat cushions and SecurAll bracket.

19.3.5 Each seat to be equipped with IMMI Reach Ready full length orange color seat belts with extended extra length female hardware.

Y____N____

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19.0 Cab and Chassis Requirements:

19.3.6 Each seat to be provided with black color Durawear material. **Y_____N_____**

19.3.7 Interior of each door to be full height brushed stainless steel with reflective strip and Whelen LED amber color flashing light at the lower section. **Y_____N_____**

19.3.8 Cab to be provided with front and rear heating and air conditioning with controls at the front dash area. Bidder to provide detailed information on BTU heating and cooling output for the components being offered. **Y_____N_____**

19.3.9 Cab interior to be provided with a minimum of six (6) LED red/white split lens lighting on the cab ceiling area. **Y_____N_____**

19.3.10 Cab interior to be finished with black color mar resistant paint or Linex material. **Y_____N_____**

19.3.11 All cab windows to be tinted. Cab doors shall have crank style window regulators where the windows shall completely retract into the door panel. **Y_____N_____**

19.3.12 Auxiliary grab handles shall be provided on the inside door post for the driver's and officer's positions. Orange color web handholds shall be provided at the lower portion of each cab door strap. **Y_____N_____**

19.3.13 Bidder shall submit a proposed dashboard and panel layout with their submission. **Y_____N_____**

19.3.13 Three (3) roof mounted antenna bases shall be provided with cables run to the underside of the officer's seat for mounting of Fire Department supplied radio equipment. **Y_____N_____**

19.3.14 All cab step surfaces shall be .188 inch non slip aluminum treadplate. Any exterior step surface shall incorporate a Bustin grating or equal insert. Each step area shall have a protected LED light to illuminate the area. Auxiliary stirrup steps shall be provided under each cab door. **Y_____N_____**

19.3.15 Frontal and side air bags shall be provided on the cab. **Y_____N_____**

19.4 Chassis

19.4.1 Frame to be constructed of 120,000 PSI high strength steel with sufficient cross members for the intended load of the apparatus. Bidder to specify exact frame dimensions, section modulus and RBM for the frame. The frame and cross members shall be warranted for the life time of the vehicle.

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19.0 Cab and Chassis Requirements:

19.4.2 Frame to be **finish painted red color** prior to attachment of any components
Y____N____

19.4.3 Front axle to have minimum rating of 21,500 pounds and shall be provided with EX 225 disc brakes, front shock absorbers, oil seals, Alcoa polished aluminum wheels, stainless steel lug nut covers, Goodyear G296 MSA 425/65R22.5 tires, tire pressure monitoring device and leaf spring suspension to match axle capacity. Front axle to be provided with parking brake and guarded control. Tires to be balanced with counteract beads. Y____N____

19.4.4 Rear axle to have a minimum rating of 48,000 pounds and shall be provided with a Hendrickson HN suspension, oil seals, EX225 disc brakes, Alcoa polished aluminum wheels, stainless steel lug nut covers, Goodyear G622RSD 12R22.5 tires and Crossfire tire pressure monitoring device. Tires to be balanced with counteract beads.
Y____N____

19.4.5 Top speed of vehicle to be a minimum of 65 mph. Y____N____

19.4.6 Chassis air system shall have a minimum of 5300 cubic inch capacity with one (1) 1200 cubic inch reservoir for reserve capacity. Each tank to have manual drain valve with stainless steel pull cables run to the outside edge of the body. Y____N____

19.4.7 Air system to have a Wabco 1200 air dryer, wet air tank to be equipped with automatic moisture ejector, all wheel lockup with guarded control shall be provided. Air inlet with quick disconnect shall be provided at the drivers step area. Y____N____

19.4.8 Chassis to be equipped with ABS, ATC for the rear axle and Roll Stability Control. Bidder to specify manufacturer and model of these components.
Y____N____

19.4.9 Engine to be Cummins ISX15, 500 horsepower or City of Port Jervis approval equal. Y____N____

19.4.10 Engine to be equipped with fuel/water separator with shut off valves on either side of filter. Y____N____

19.4.11 Engine to be equipped with silicone hoses with constant torque stainless steel clamps, coolant filter, Horton or equal fan clutch and auxiliary pump cooler.
Y____N____

19.4.12 Transmission to be Allison EVS-4000 with push button controls, internal oil cooler and TES-295 fluid. Y____N____

19.4.13 Drivelines to be Spicer 1810 series equipped with a minimum of three (3) bolt on U shape driveline guards. Y____N____

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19.0 Cab and Chassis Requirements:

19.4.14 Engine to be equipped with Jacobs three speed engine brake with controls and indicator lights. Y____N____

19.4.15 Chassis shall be supplied with a Vogel 34 point chassis and aerial lubrication system. Locations of all lube points to be determined at engineering conference.
Y____N____

19.4.16 Fuel tank to be a minimum of 65 gallons constructed of stainless steel with stainless steel straps. A stainless steel door provided on the body shall cover both the diesel fuel fill and the 4.5 gallon DEF tank fill. A single stainless steel hinged door shall be provided at the left side rear of the body to cover both the diesel fuel and DEF tank fill tubes. Y____N____

19.4.17 Chassis exhaust shall terminate ahead of the rear axle on the right side of the body with a straight pipe. Heat shields shall be provided on the exhaust piping.
Y____N____

19.4.18 Front axle shall be provided with a Ross TAS-85 or equal steering with assist cylinder. Y____N____

19.5 Chassis Electrical

19.5.1 All chassis wiring shall be protected against damage and shall be covered in a loom and secured with permanently attached clamps. No exposed wiring shall be permitted under the cab, chassis or body. No push on style connectors shall be permitted. Where required access panels shall be provided in the body to cover exposed wiring and electronic controls. Y____N____

19.5.2 A minimum of six (6) 1150 CCA batteries shall be provided and installed mounted on stainless steel trays or steel trays protected with Linex. Each battery compartment shall have a stainless steel lift off cover. Suitable provisions shall be provided for battery jumper studs to be located without having to tilt the cab. Y____N____

19.5.3 A Niehoff 360 amp alternator with external regulator shall be provided.
Y____N____

19.5.4 A Kussmaul Pump Plus 1200 battery charger with chassis air pump and Kussmaul auto eject shall be provided.
Y____N____

19.5.5 A dedicated shore line power supply shall be provided and installed in the cab with power strip. Final location to be determined at engineering conference.
Y____N____

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19.0 Cab and Chassis Requirements:

19.5.6 A Fire Research or equal Vehicle Data Recorder and Seat Belt monitoring system shall be provided and installed. **Y_____N_____**

19.5.7 An electronic back up alarm shall be provided. Bidder shall provide manufacturer and model of alarm being provided. **Y_____N_____**

19.5.8 All chassis running lights, marker lights, mid-body turn signals shall be LED style, Bidder to provide make and model of each light. The rear body stop, tail, back up lights shall be Whelen M6 LED with rear body mounted Britax cornering lights. All lights shall be provided with a chrome bezel. **Y_____N_____**

19.5.9 Chassis and body shall be hard wired; no multiplexing of the chassis electrical system is desired. **Y_____N_____**

19.5.10 Amdor Lumabar LED strip lights shall be provided and installed at each cab step area and four (4) locations on each side of the body and rear step areas.

19.5.11 Two (2) Whelen LED flashing lights with buzzer shall be provided and installed in the ceiling of the cab to indicate a cab or compartment door open. One (1) red color LED light shall be for the left side of the cab/body and one (1) amber color LED light shall be for the right and rear of the cab/body.

19.5.12 A color back up camera at the rear body with additional right side camera shall be provided with screen located on the driver's side of the cab. The rear body camera shall be protected from damage with an aluminum tread plate cover. Final location of all components shall be determined at the engineering conference.

19.5.13 Six (6) Streamlite Vulcan hand lights with chargers shall be provided and installed on the apparatus. Final location to be determined at the engineering conference.

19.5.14 All emergency lighting shall be Whelen Super LED or Fire Department approved equal to include the following lighting. **Final location, lens and warning light colors shall be determined at the engineering conference. All pods on the light bars shall be provided with an LED lamp.** **Y_____N_____**

19.5.15 Four (4) Whelen Edge Ultra Freedom LED mini cab roof mounted light bars, one (1) on each side of the aerial ladder mounted at a 30 degree angle and one (1) each side centered over the crew cab doors. **Y_____N_____**

19.5.16 A minimum of fourteen (14) Whelen M6 series LED alternating flashing warning lights installed as follows: four (4) at the cab front over the headlights in a dual chrome housing, one (1) each side at the front bumper extension, one (1) each side over the front wheel, one (1) each side ahead of the rear axle, two (2) each side at the rear of the body. Each light shall have a chrome flange. **Y_____N_____**

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19.0 Cab and Chassis Requirements:

19.5.17 A minimum of four (4) Whelen M6 LED alternating flashing lights shall be installed one (1) at each outrigger location. These lights shall be controlled with the side warning light rocker switch. **Y_____N_____**

19.5.18 Two (2) Whelen L31HRFN LED beacon lights, one (1) red and one (1) amber shall be provided and installed on the upper portion of the rear body. **Y_____N_____**

19.5.19 Six (6) Whelen model PFP2 Pioneer LED scene lights shall be provided, one (1) each side mounted above the windshield and two (2) each side of the body, one (1) at the front and one (1) at the rear. The body lights shall be enclosed in stainless steel boxes and shall be controlled with three (3) cab rocker switches, one (1) for the cab brow lights and one (1) for each side of the body lights. Exact location of these lights and switches shall be determined at the engineering conference. **Y_____N_____**

19.5.20 Two (2) Whelen model PFP1 Pioneer LED scene lights shall be provided, one (1) each side recess mounted at the rear of the body. These lights shall be controlled through a single cab dashboard rocker switch and a protected weatherproof switch at the rear of the body. **Y_____N_____**

19.5.21 Each enclosed body compartment shall be provided with two (2) full height Amdor Luma Bar LED light strips which shall activate when a compartment door is opened. The forward body transverse compartment and ground ladder compartment at the rear of the body shall have several Trucklite 4.00 inch diameter LED lights provided at the ceiling and side walls of the compartment. Final location of these lights shall be determined at the engineering conference.

Y_____N_____

19.5.22 LED lights with individual switches shall be provided inside of the engine compartment. **Y_____N_____**

19.5.23 A Whelen TAM83 45 inch long LED traffic advisor shall be provided at the top rear deck of the apparatus. The light shall be protected if required with controls located in the cab dashboard area. **Y_____N_____**

19.5.24 LED lights shall be provided at each step surface for access to the aerial turntable controlled thru the aerial PTO switch.

Y_____N_____

19.5.25 Two (2) Whelen 9SCOENZR LED scene lights shall be provided one (1) each side of the cab. Lights shall be controlled through the door switch on each cab door and with two (2) dashboard rocker switches, one (1) for each light. **Y_____N_____**

19.5.26 Trucklite LED ground lights and Whelen LED flashing red color warning lights shall be provided at each outrigger location to illuminate this area. Bidder shall provide the make and model of the lights being proposed. **Y_____N_____**

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19.0 Cab and Chassis Requirements:

19.5.27 A Federal Q-2B mechanical siren recessed into the front bumper with a driver's side Linemaster foot switch and push button on the officer's side dashboard shall be provided. Power for the mechanical siren shall be tied into the master warning light rocker switch. A siren brake button shall be provided on the cab dash area.

Y_____N_____

19.5.28 A Whelen model 295HFS3 electronic siren with a SA314A speaker shall be provided and installed. Y_____N_____

19.5.29 Two (2) Grover Stuttertone air horns shall be recess mouthed in the front bumper with a driver's side Linemaster foot switch and push button on the officer's side dashboard shall be provided. Y_____N_____

19.5.30 One (1) Opticom shall be provided and installed on the cab roof. The Opticom shall be controlled by a cab mounted rocker switch, powered thru the emergency master warning switch and shall automatically shed with the parking brake. Y_____N_____

19.5.31 A Fire Department supplied bell shall be mounted at the right front corner of the bumper with pull cord extended to inside of the cab. Y_____N_____

20.0 Body and Compartments:

20.1 Apparatus body to be constructed of aluminum with Amdor brand roll up shutter doors on all full height compartments and .188 inch aluminum hinged, painted doors on all compartment with a clear door opening of less than 20.00 inches high. Any compartment provided with a roll up door shall be provided with a guard below door roll with an orange color pull strap. The hinged body doors shall be provided with a brushed stainless steel inside door pan, stainless steel hinge and Cleveland over center door hardware. Y_____N_____

20.2 The body shall have a minimum of twelve (12) enclosed body compartments on the apparatus and shall utilize all available space on the body to provide enclosed compartment storage as well as sufficient room for the specified ground ladders. All compartments shall have sweep out floors and stainless steel floor edge protection. Each bidder shall provide the exact compartment dimensions, clear door openings and cubic foot storage space for each body compartment. Y_____N_____

20.3 The following compartment arrangement shall be provided for the left and right sides of the body:

L-1/R-1: Full height transverse compartment between the cab and forward body outrigger. Compartment shall be equipped with an aluminum module to accommodate a Little Giant model 17 ladder (supplied with the apparatus), stokes basket and long handle tools (FD supplied).

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20.0 Body and Compartments:

L-2/R-2: Compartment equipped with stainless steel door to accommodate the junction box and stainless steel roller assembly for electric rewind cable reels. The cable reels shall be mounted under the aerial ladder, one (1) on each side.

L-3/R-3: Full height compartment and depth compartment on each side of the body.

L-4/R-4: Full depth compartment over the forward portion of the tandem rear axle on each side of the body.

L-5/R-5: Hinged door compartment over the rearward portion of the tandem axle on each side of the body.

L-6/R-6: Full height compartment full depth in the lower portion and reduced depth in the upper section under the turntable on each side of the body. **Y**____**N**_____

20.4 Compartment Equipment: The body compartments shall be provided with the following equipment:

20.4.1 Six (6) 500 pound rated On Scene Solutions floor mounted .188 inch aluminum slide trays.

Y____**N**_____

20.4.2 Two (2) 500 pound rated On Scene Solutions adjustable .188 inch aluminum slide trays.

Y____**N**_____

20.4.3 Two (2) 250# rated On Scene Solutions adjustable .188 inch aluminum pull out drop down trays. **Y**____**N**_____

20.4.4 Eight (8) .188 inch aluminum DA finish adjustable shelves with uni-strut hardware. **Y**____**N**_____

20.4.5 Four (4) compartments shall be provided with Performance Advantage Company Pac Trac tool boards on the rear and side walls. **Y**____**N**_____

22.3.4 Four (4) SCBA bottle compartments on each side of the body. Compartments to shall PVC bottle tubes with rubber matting equipped with a stainless steel hinged door and flush style lift and turn latch. **Y**____**N**_____

20.5 All horizontal surfaces should be equipped with black color Dri-Deck material.

Y____**N**_____

20.6 All compartments shall be equipped with ventilation louvers.

Y____**N**_____

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20.0 Body and Compartments:

20.7 The apparatus body shall be provided with aluminum or stainless steel rub rails that are spaced away from the body, fully protecting the roll door lift bar latches.

Y_____N_____

20.8 The rear wheel well panel shall be painted and include a full fender inner liner and bolt on stainless steel fenderette. The rear wheel well panel shall incorporate the diesel and DEF fill door .Y_____N_____

20.9 Pull out aluminum access steps shall be provided on each side of the rear body with stainless steel serrated handrails on each side. All step surfaces shall be of a non-slip design with the vertical wall surfaces covered with polished aluminum tread plate. The steps shall be tied into the door open circuit for each side of the body. LED light strips shall be provided for each step area. Y_____N_____

20.10 Two (2) heavy plate rear tow eyes shall be provided at the rear of the apparatus body, painted truck color red. Y_____N_____

20.11 A storage area fabricated of .188 aluminum painted truck color shall be provided as large as possible under the aerial ladder, ahead of the turntable. The floor of this compartment shall be aluminum tread plate. Y_____N_____

20.12 An 8.00 inch rear bumper fabricated from .188 inch aluminum treadplate shall be provided and installed. The rear bumper shall fully protect the rear body aerial inlet, handrails, running and warning lights. Y_____N_____

21.0 Ground Ladders: The apparatus body shall carry the following bidder supplied aluminum ground ladders, Duo-Safety or Alco-Lite brand. Bidder shall specify the exact model of each ladder being supplied.

21.1 Two (2) two section 35 foot extension ladders

21.2 Two (2) two section 28 foot extension ladders

21.3 One (1) two section 24 foot extension ladder

21.4 One (1) 20 foot roof ladder

21.5 One (1) 18 foot roof ladder

21.6 One (1) 16 foot roof ladder

21.7 One (1) 14 foot roof ladder with roof hooks on each end, mounted on the base section of the aerial ladder on the side opposite the turntable controls

21.8 One (1) 10 foot folding ladder

Y_____N_____

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21.0 Ground Ladders:

21.9 One (1) Little Giant model 17 ladder mounted in compartment L-1/R-1

Y____N____

21.10 The ground ladder compartment shall be protected with an anodized Amdor roll up shutter door. A positive latching mechanism shall be provided to hold the ground ladders in place.

All ground ladders with the exception of the 14 foot roof ladder and Little Giant ladder shall be mounted on poly slides in the rear of the body. The blueprint submitted with the proposal shall clearly show the ground ladder banking arrangement.

Y____N____

22.0 Pike Poles: Six (6) Fire Hooks Unlimited pike poles to be carried in aluminum tubes to include two (2) 10 foot, two (2) 8 foot and two (2) six foot pike poles. Apparatus shall also carry three (3) 8 foot New York roof hooks, final location to be determined at engineering conference. Positive latches shall be provided to hold the heads of the pike poles in place.

Y____N____

23.0 Aerial Ladder:

23.1 Aerial device to be rear mounted with a minimum vertical reach of 100 feet and horizontal reach of 92 feet. The aerial ladder shall be constructed of steel for all ladder sections. Bidder to provide the height and width dimensions for each ladder section. Non-slip fiberglass rung covers shall be provided on each aerial section. Lettering panels shall be provided on the base section of the aerial ladder. Stainless steel scuff plates shall be provided on the ladder cradle to protect the side rails of the ladder base section.

Y____N____

23.2 Aerial device shall be capable of operating range between minus 8 degrees to plus 75 degrees with a minimum tip load of 500 pounds. Bidder shall specify the elevation range of the aerial device. Y____N____

23.3 Four (4) outriggers shall be provided with allow leveling of unit with a slope of up to 7 degrees with a minimum of 12 inches of jack penetration. The preferred outrigger configuration is a fourteen foot jack spread with 18 inches of jack penetration. Trucklite LED clear lights shall be provided to illuminate the ground at each outrigger location. Whelen brand LED warning lights shall be provided inside of each outrigger beam. The ground and inside beam LED lights shall activate with the aerial PTO. Bidder shall detail outrigger operation controls, jack stance and outrigger capabilities for each pair of outriggers.

Y____N____

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23.0 Aerial Ladder:

23.4 Four (4) Whelen M6 LED warning lights shall be provided and installed on the stainless steel outrigger panels. These lights shall be activating with the side body warning lights. **Y_____N_____**

23.5 Four (4) composite material auxiliary jack pads and under body holders shall be provided. Bidder shall identify on the blueprint the proposed location and mounting of these jack pads.
Y_____N_____

23.6 The aerial device turntable shall contain all controls, including chassis air horn for the device with pedestal controls on the left side. Bidder shall detail with their proposal the type and style of the aerial controls. The bidder's turntable and pedestal design shall provide for a clear, unobstructed view of the tip of the aerial ladder from the operator's position. The turntable shall be provided with Bustin non-slid inserts or PJFD approved equal stepping surface. The stainless steel turntable railing shall be provided with Fire Research Mansaver bars on each side. **Y_____N_____**

23.7 Reflective extension indicators, red in color shall be provided on each side of the ladder top and side rails. Blue color LED lighting shall be provided on each section of the aerial ladder. **Y____N_____**

23.8 Whelen PFF2 150 watt track lights shall be provided and installed, two (2) on the base section of the aerial ladder and two (2) at the tip of the aerial. A Whelen L31HF blue LED light shall be provided at the tip of the aerial ladder. **Y_____N_____**

23.9 The aerial device shall be provided with an Akron 3578 remote control monitor on the underside of the fly section. Monitor shall be equipped with a 1000 gpm rated remote control fog nozzle, stream shaper and smooth bore stacked tips in the following sizes: 1.50 inch, 1.75 inch and 2.00 inch. The monitor shall be capable of being locked in to either the fly section or third section of the aerial ladder. The monitor shall be protected by a stainless steel guard or similar device.

23.10 The rear body shall be provided with a 5.00 inch rear body inlet equipped with a 5.0 inch storz adapter, cap and chain, internal relief valve, 4.00 inch pressure gauge with a range of 0-400 PSI and waterway drain. The monitor shall be capable of operation from both the pedestal and tip of the aerial ladder.

A Fire Research flow meter shall be provided on the turntable pedestal. Bidder shall provide dimensions of the waterway piping and friction loss for the waterway system flowing 1000 gpm at maximum elevation.
Y_____N_____

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23.0 Aerial Ladder:

23.11 All aerial device controls shall be hydraulically driven by on board system which shall be capable of operating in all temperature ranges. The hydraulic oil reservoir shall be provided above the body in a location that will not restrict ground ladder banking. Aerial device elevation and extension shall be all hydraulic with back up pump provided for use in emergency conditions. A collision avoidance system for the body and cab shall be provided. Y____N____

23.12 The tip of the aerial ladder shall be painted a distinctive reflective color. Lifting eyes shall be provided on side of the ladder fly section. Bidder shall specify the weight rating of the lifting eye assembly

Y____N____

23.13 The tip of the aerial ladder shall be provided with one (1) 120 volt duplex outlet, two (2) Whelen 150 watt LED floodlights, mounting for one (1) 8 foot New York roof hook and one (1) pick head axe with fiberglass handle. The tools shall be held in place with Performance Advantage Company PAC brackets. Y____N____

23.14 Aerial device shall be provided with a Fire Research two way intercom system with hands free speaker at the tip of the aerial device. Y____N____

23.15 The aerial device shall be painted white in color color, including the turntable and pedestal controls. The outrigger beams shall be painted silver in color.

Y____N____

23.16 Bidder shall provide individual pricing and specifications for any optional equipment or controls that may be available for the aerial ladder being offered.

Y____N____

24.0 Generator and 120 Volt Equipment

24.1 Apparatus to be provided with a Harrison 15.0 Kw hydraulically driven generator, circuit breaker box and generator control panel. The generator shall be mounted on top of the body under the aerial ladder and shall not impede the ground ladder storage or body compartments. The circuit breaker box and generator controls shall be mounted on the left side wall of compartment L-1 Y____N____

24.2 Apparatus to be provided with two (2) Hannay 1620-17-18 electric rewind cable reels each equipped with 200 feet of 10/4 yellow cable, four way junction box, cable ball stop and captive stainless steel rollers. The electric cable reels shall be located under the aerial ladder with cable paying out thru compartments L-2 and R-2 on the body. Each cable reel shall be painted red color to match the apparatus body. The junction box shall be provided with two (2) 20 amp household straight blade outlets and two (2) L-5 20, 20 amp twist lock outlets. Y____N____

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23.0 Aerial Ladder:

24.3 Apparatus body to be equipped with two (2) 120 volt outlets, one (1) inside each forward body compartment. A shore line and generator powered 120 volt power strip shall be located one (1) inside of the cab and one (1) inside of a body compartment. Final location of all components to be determined at engineering conference.

Y____N____

25.0 Painting, Lettering and Striping:

25.1 The cab shall be painted in a two tone configuration with the apparatus body painted a single color. The paint shall be warranted for a minimum of seven (7) years with a non pro-rated, non exclusionary warranty by the bidder. Fire department shall provide paint numbers prior to the engineering conference. Manufacturer shall provide paint chip samples for written approval by the PJFD.

Y____N____

25.2 The chassis frame assembly shall be painted job color before the installation of the cab and body, and before installation of the engine, drive shafts and transmission assembly, air brake lines, electrical wire harnesses, etc. Components that are included with the chassis frame assembly that shall be painted job color are frame rails, cross members, axles, suspension, steering gear, fuel tank, body substructure supports, miscellaneous mounting brackets, etc.

Y____N____

25.3 Vehicle Lettering and Striping:

The following letters shall be provided on the completed apparatus:

25.3.1 Eighty (80) 4.00 inch high 23K gold leaf lettering shall be applied to a vinyl appliqué with clear vinyl overlay protection. Each letter shall have a drop shadow and outline. Y____N____

25.3.2 Eight (8) 6.00 inch high 23K gold leaf lettering shall be applied to a vinyl appliqué with clear vinyl overlay protection. Each letter shall have a drop shadow and outline.

Y____N____

25.3.3 Twenty (20) 12.00 inch high reflective letters with outline.

Y____N____

25.3.4 Two (2) Gold leaf with vinyl appliqué Maltese cross on cab doors.

Y____N____

25.3.5 Gold leaf stripe provided at cab paint break line and along each body side.

Y____N____

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25.3 Vehicle Lettering and Striping:

25.3.6 There shall be alternating 6.00 inch wide chevron striping located on the rear-facing vertical surface of the apparatus. The entire rear of the body shall be covered with chevron striping. The colors shall be red and fluorescent yellow green diamond grade.

Y____N____

25.3.7 The apparatus cab and body shall be provided with a six inch white reflective stripe with top and bottom black pin stripe border. Final configuration and layout of stripe on cab and body shall be determined at the engineering conference.

Y____N____

25.3.8 All slide trays and tool boards that extend beyond the body as well as the outrigger beams shall be provided with red/white reflective stripes.

Y____N____

25.3.9 The interior of all body compartments including trays and shelves shall be protected with gray color splatter paint.

25.3.10 The stainless steel cab grill shall be provided with an American flag logo.

26.0 Equipment:

26.1 Each bidder shall include with their proposal an amount of \$6000 dollars for tool and equipment mounting within the body compartments. Brackets to retain equipment shall be Performance Advantage Company and custom built aluminum or stainless steel brackets where required. All tool and equipment mounting will be reviewed and approved by the PJFD.

Y____N____

26.2 Two (2) Fire Hooks Unlimited 30 inch Pro Bars shall be provided and installed on the apparatus. Y____N____

26.3 Two (2) Fire Hooks Unlimited 8# flat head axes and three (3) 8# pike head axes shall be provided and installed in the apparatus. Y____N____

26.4 Three (3) fire extinguishers shall be provided and installed in the compartments to include a non-marring NFPA approved bracket similar to a PAC Extenda-Mount for each extinguisher. The extinguishers shall include the following: 2.50 gallon pressurized water can, 15# CO2 and a 20# ABC extinguisher. Y____N____

26.5 One (1) combination hydrant wrench/storz spanner wrench sets shall be provided with the completed apparatus. Y____N____

26.6 Four (4) ladder belts of various sizes. Bidder to supply manufacturer and model of ladder belts being supplied. Y____N____

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27.0 Manuals:

26.7 Five (5) fluorescent traffic cones with 2.00 inch and 6.00 inch wide reflective stripes. **Y**____**N**_____

27.1 Two (2) AS BUILT copies of all operator, service, and parts manuals shall be supplied at the time of delivery of each apparatus as follows. The manuals shall be provided in both hard copy and CD's for all components. The manuals shall include the following information:

Operating instructions, descriptions, specifications, and ratings of the cab, chassis, body, installed components, and auxiliary systems, warnings and cautions pertaining to the operation and maintenance of the fire apparatus and fire fighting systems.

27.2 Two (2) complete sets of engine service manuals.

27.3 Two (2) complete sets of transmission service manuals

27.4 Two (2) complete sets of chassis maintenance manuals.

27.5 Two (2) complete sets of installed electrical system component manuals.

27.6 Two (2) operator's instruction manuals for the vehicle chassis.

27.7 Two (2) operator's instructions and manuals for the aerial device.

27.8 Two (2) manuals for the hydraulic generator.

27.9 Two (2) sets of manuals for all other additional equipment or options installed on the vehicle.

Y____**N**_____

28.0 Options:

28.1 Bidder may provide an alternate diesel engine rated at a minimum of 500 HP with 1650 foot pounds of torque. **Y**____**N**_____

Cost: _____

28.2 Bidder shall provide a cost to install both frontal and side protection air bags.

Y____**N**_____

Cost: _____

28.3 Bidder to provide a cost to install a Telma four stage driveline retarder in place of the specified Jacobs engine brake. **Y**____**N**_____

Cost: _____

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28.0 Options:

28.4 Bidder shall provide an option to supply a Harrison MAS 10.0 Kw generator in lieu of the 15.0 Kw generators. **Y**_____ **N**_____

Cost:

28.5 Bidder to provide a cost to install a color camera at the tip of the aerial ladder without changing the minimum 500# tip load or removal of any of the specified equipment. **Y**_____ **N**_____

Cost:

28.6 Bidder to provide one lump sum cost to supply with the apparatus with the following Hurst rescue tool equipment:

One (1) JL-QG-ES quad motor

One (1) JL-500 cutter

One (1) MOC Combi tool

One (1) S-700E Cutter

One (1) SP300E Spreader

One (1) R411E Ram

Cost: _____

28.7 Each bidder is encouraged to submit a trade in value for the current Ladder 827, a 1989 Pierce Arrow four door cab 105 foot steel rear mount aerial ladder. The apparatus is currently in front line service and is available for inspection prior to the bid opening by contacting Chief Jeff Rhoades.

The apparatus has a current aerial and ground ladder certifications and maintenance records are available for review. The bidder shall provide a trade in amount for the apparatus with the understanding that the vehicle would be made available immediately after delivery and acceptance of the new aerial ladder.

The bidder shall be advised that the City of Port Jervis is under no obligation to accept any trade in value offered and will not consider the trade in amount in determining the low bidder for the project. If the bidder chooses not to offer any trade in value they shall so disclose by inserting the wording "NO BID" on the following line. The trade in value shall be written in both words and numbers to precisely identify the trade in offered.

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28.0 Options:

28.7 Trade in value:

End of City of Port Jervis RFP

**Tom W. Shand
V13-3**