

INVITATION TO BID

NEWTON FIRE DEPARTMENT

Refurbishing of Engine #2

The Town of Newton New Hampshire is requesting bids for the Refurbishing of the Fire Department's 1991 Emergency One Pumper - Engine #2 as described in the attached specifications.

The Town reserves the right to reject any and all bids in the best interest of the Town.

INTENT OF SPECIFICATIONS

It is the intent of these specifications to cover the refurbishing process herein as specified, with a view to obtaining increased safety and service life of the apparatus. These specifications cover minimum requirements as to the type of repairs, construction, finish, and test(s) to which the apparatus must conform, together with certain details as to equipment and appliances to be furnished. Minor details of construction, materials, where not otherwise specified, are left to the discretion of the contractor who shall conform to industry standards and all applicable requirements of the current NFPA standards. Exempt are original designs that remain unchanged.

EXCEPTIONS

Substitutions, deviations, clarifications, or exceptions to these specifications must be listed on a separate page marked, "EXCEPTIONS" and must be accompanied by adequate data to allow the Fire Chief to determine acceptability. Proposals that are found to have deviations without listing them will be rejected.

VEHICLE INSPECTION

No bid will be accepted unless a prospective bidder has thoroughly inspected the vehicle and become fully knowledgeable as to the work to be performed. All prospective bidders must make an appointment for the purpose of personally inspecting the vehicle and reviewing the specifications. Bids will not be accepted unless this qualification is met fully.

Bid

The outside of the sealed envelope must be clearly marked "Newton Fire Department – Bid for Refurbishment of Engine #2" with the date and time on the exterior of the envelope. It must be addressed to the Town of Newton Selectmen's Office, PO Box 378, Newton, NH 03858. The bid must be delivered to the Town Hall by 4pm on Monday, July 18, 2011. The bids will be opened at the Selectmen's Meeting on Tuesday, July 19, 2011, time to be determined.

Qualification of Bidders

Bids will only be considered from apparatus refurbishment facilities that have been in business continuously, without interruption, for a minimum of twenty-five (25) years.

Service Requirements

It is the intent of the department to assure that parts and service are readily available for the apparatus specified. SERVICE CAPABILITIES WILL BE A MAJOR CRITERIA FOR AWARD OF THIS BID. To insure proper service, no bid will be accepted unless the bidder owns within one hundred (100) miles where complete parts and service are available. The facility must be staffed by full time personnel who are factory trained and EVT certified in the operation and repair of the fire apparatus, including the pump, with full authorization of the manufacturer. In addition, in order to ensure prompt service, the facility must be solely dedicated to the service/repair of emergency vehicles. Facilities that cater to construction and fleet trucks (i.e., highway dept., DPW, oil, concrete, etc..) will not be considered. The facility shall maintain a complete inventory including major pump parts, body components, electrical items, fire apparatus hardware, etc., and shall offer on-site services including pump overhaul, body fabrication, collision repair, and a paint shop complete with a cross flow booth with air makeup and bake options to insure the highest quality paint finish available. The bidder must also operate an on-site pump test facility and must be an "Authorized Parts and Service Center" for Hale Pumps, and provide proof thereof. Bids from manufacturers who use third party service people or facilities, or who do not offer a service center will be immediately rejected.

Emergency Vehicle Technician Qualifications

Due to the highly specialized nature of fire apparatus repair, emergency vehicle technicians (EVT's) employed by the bidder shall be in conformance with NFPA standards 1915 and 1071. The bidder shall employ E.V.T. certified technicians (including a minimum of one (1) technician certified as a "Master EVT and ASE Truck Technician") that are exclusively dedicated to the service and repair of fire apparatus. Proof of current certification shall be supplied with the bid. There shall be no exceptions to this requirement. Bids from organizations that do not meet these requirements shall be immediately rejected.

Completion

Upon completion of the work, the vehicle will be inspected and using this document each item and paragraph of this document will be checked for compliance. No deviation from this specification will be permitted unless the vendor has submitted such proposed deviation in writing with the final bid document and such exceptions are accepted by the Town.

Comparison of Bids

Bids will be compared on the basis of their amount of the proposed cost and serviceability to the Town. An award decision will be made in the best interest of the Town using the following additional criteria:

- a) Compliance with these specifications
- b) Service availability
- c) Total Bid Price

Performance Bond and Insurance

The successful bidder shall provide a Performance Bond equal to 100% of the total contract cost, within thirty (30) days from the execution of contract and shall maintain a minimum of \$1,000,000 General Liability Insurance Coverage.

Non-registered or foreign insurance companies will not be acceptable. **No exceptions to this requirement.**

Specifications

CAB/BODY INSPECTION

Prior to the start of the refurbishing process, a complete and thorough cab/body inspection shall be performed by a factory authorized technician. **All structural** members, filler plates, crossmembers, compartments, and doors of the cab and body shall be thoroughly inspected. The department shall be notified should repairs be required along with any associated cost. All required repairs authorized by the department shall be done according to factory recommendations.

ELECTRICAL INSPECTION AND REPAIRS

A thorough test of the entire automotive D/C and line voltage A/C electrical systems shall be performed. Any defective light bulbs, wiring or connections shall be repaired accordingly. If major repairs are in need, the department shall be notified with the cost to repair. No repairs shall be made without proper authorization from the department. Any defective marker lenses shall be replaced new. Note: Department is to replace the left and right wheelwell 110v receptacles and covers on the body.

SUSPENSION INSPECTION

Prior to the start of refurbishing, the chassis springs and suspension components shall be inspected for defects. If repairs are required, the department shall be contacted with pricing to repair.

VEHICLE AIR SYSTEM

The entire vehicle air system shall be inspected for leaks. Any minor repairs shall be repaired accordingly. If major components are found to be defective, the department shall be notified of the cost to repair. No repairs shall be performed without the approval of the department.

PUMP TEST

A three stage pump test shall be performed prior to the refurbishing process. A certificate of performance shall be provided.

STEAM CLEANING

The entire apparatus, including the chassis, power/drive train, pump area, and body shall be thoroughly steam cleaned. All debris and any loose paint shall be removed accordingly. This shall be done prior to painting the chassis.

MUD FLAPS

Install new rubber mud flaps for all four front and rear wheels. Brackets and/or bracing shall be installed as required.

REUPHOLSTER SEATS (4)

The four cab seat bases shall be reupholstered.

DASH LIGHTS

Replace any dash light bulbs and light switches that are found to be defective.

SEAT BELTS

Supply and install new seat belts for all cab seating. Color to be red per NFPA. Required modifications must be performed to original manufactures specification.

CAB DOOR HARDWARE

Remove inner cab door panels and inspect the door hardware. This shall include the latches, handles, and window regulators. The department shall be notified of any additional repairs along with any associated cost.

WINDSHIELD WIPERS

The existing blades shall be replaced as original.

DOOR GASKETS

All cab and body compartment door perimeter gaskets shall be replaced using that of original design. NO EXCEPTION can be taken to these specifications.

COMPARTMENT HANDLE GASKETS

Supply and install new sealing d-ring gaskets at all body doors.

CAB DOOR STRAPS

Install two (2) new factory style cab door holding straps on the front cab doors.

RUBRAILS

Remove and replace the existing body side rubrails. New OEM style rub rails shall be installed. This shall include across the rear step with the rub rail grip edge facing up.

BODY DRIP RAIL

Supply and install new OEM style anodized aluminum body side drip rails. Apply using new double sided mounting tape. Any mounting holes shall be welded solid and filled for refinishing.

COMPARTMENT DOOR HOLDERS

Replace body compartment door holders that are found to be defective.

GRAB RAIL ENDS

Inspect all body and cab chrome grab rail end caps for cracks. Install new as needed.

ENHANCED LIGHTING PACKAGE

Supply and install an enhanced lighting package as follows:

- Two (2) new Whelen model 800 strobe rear warning beacon lights on the upper rear stanchions. The lights shall be wired to the existing upper warning light circuit. Both beacons shall be red in color.
- Two-(2) model #500 Whelen lower rear side facing LED warning lights to the rear beavertails. These lights shall be tied in to the existing lower warning light circuit. Weather tight connections must be installed. The lights shall be red in color.
- Two-(2) model #500 Whelen lower rear back facing LED warning lights to the rear apparatus body. These lights shall be tied in to the existing lower warning light circuit. Weather tight connections must be installed. The lights shall be red in color.
- Two-(2) model #700 Whelen LED warning lights on the front lower cab side facing. These lights shall be tied in to the existing lower warning light circuit. Weather tight connections must be installed. The lights shall be red in color.

- Two (2) model #600 Whelen LED lights. They shall be located in the front cab directional housing. These lights shall be red in color.
- Two (2) model #600 Whelen LED directional lights. They shall be located in the front cab directional housing. These lights shall be amber in color.
- New rear LED tail light and back up light assemblies shall be installed as a direct replacement to the existing lights.

REAR DECK LIGHTS

Supply and install two (2) new Whelen LED bulb inserts in the existing rear deck lights.

CAB SPOT LIGHTS

Remove the existing left and right cab mounted spot lights. The mounting holes shall be welded closed prior to refinishing. A halogen hand held spot light shall be installed and wired on the officer's side cab dash.

BODY SCENE LIGHTS

Supply and install two (2) external mounted bottom raise telescopic poles in place of the existing top raise poles. Reuse the existing light heads and wiring.

CLEAN JUNCTIONS

Any junction boxes/strips that are exposed shall be cleaned and sprayed with protective coating. The area located at the lower portion of the cab shall have a protective cover/shield installed. The department shall be advised of the design prior to completion.

GENERATOR

The generator shall be steam cleaned, serviced, and load tested to confirm proper operation.

COMPARTMENT LIGHTS

Install new compartment lights in place of any found defective.

PUMP PANEL TAGS

Replace any missing pump panel tags on both panels. They should match existing tag design.

CLEAN HARDWARE

All components shall be thoroughly cleaned prior to reinstallation. Should any door latches/strikers be found defective/worn, the department shall be notified along with any associated costs prior to replacing.

EXPOSED ALUMINUM

All unpainted exposed aluminum shall be cleaned or sanded as needed, i.e., diamond tread filler panels, interior compartments, etc.

CLEAN CAB INTERIOR

The interior of the cab shall be thoroughly cleaned to enhance appearance upon final completion of the unit.

FLUID CHECK

All other vehicle fluid levels shall be checked and "topped off" as required prior to completion and acceptance.

PAINT CAB EXTERIOR

All exterior components such as mirrors and bumpers shall be removed prior to the finish procedure. All raw metal shall then be primed with a chrome based phosphoric acid catalyzed self-etching wash primer to provide superior corrosion resistance and excellent adhesion of the top coat. Next, an acrylic urethane primer-sealer shall be applied to guarantee excellent hold-out and uniform base color. The third step includes a two-component surfacer to provide good hold-out of the top coat. Finally, a lead-free, chromate-free medium solid acrylic urethane top coat shall be applied, providing excellent coverage and durability. All exterior components shall then be re-mounted. The color shall be a direct match to the department's newest apparatus.

PAINT WINDOW FRAMES

Prepare and paint outer window frames flat black as original.

BODY PAINT

Aluminum body exterior shall have no mounted components prior to painting to assure full coverage of metal treatments and paint to the exterior surfaces of the body. Compartment doors shall be painted separately to assure proper paint coverage on body, door jambs and door edges.

All raw metal shall then be primed with a chromate based phosphoric acid catalyzed self-etching wash primer to provide superior corrosion resistance and excellent adhesion of the top coat. Next, an acrylic urethane primer-sealer shall be applied to guarantee excellent hold-out and a uniform base color. The third step includes a two-component surfacer to provide good hold-out of the top coat. Finally, a lead-free, chromate-free medium solid acrylic urethane top coat shall be applied, providing excellent coverage and durability. The bidder shall supply warranty with bid. The color shall be a direct match to the department's newest apparatus.

PAINT WHEELS

The exterior wheels shall be painted to match the cab and body exterior paint. Vehicle wheels shall be trimmed in silver paint to complete the wheel finish.

CORROSION PROTECTION

All hardware and accessories that are mounted to a painted surface on the exterior of the cab or body shall be installed with an insulating gasket and treated with "ECK" corrosion protectant. There will be no exceptions to this requirement.

PAINT CHASSIS

The entire chassis and pump shall be painted using factory recommended chassis paint. The chassis and components shall be prepared for paint and any loose paint and or corrosion is to be addressed prior to refinishing. The paint will be black in color.

UNDERCOAT

Front and rear fender liners shall be undercoated using a high grade rubberized undercoating.

FINISH LETTERING / SCOTCHLITE STRIPE

NFPA compliant scotchlite striping and gold leaf lettering shall be applied per Fire Department design. The lettering and stripe layout must be approved by the department prior to application.

CHEVRON STRIPING

The upper center rear panel of the apparatus body shall be overlaid with 1/8" plain aluminum. This are will then have reflective chevron striping applied.

FRONT FENDERETTE

Supply and install one (1) new polished aluminum fenderette to replace the damaged right front fender. The left front fenderette will be clean and reused.

CHROME AXLE CAPS

Supply and install new chrome axle center caps with chrome lug covers.

REFLECTORS

All new body reflectors shall be installed. This includes four (4) red and four (4) amber reflectors.

RELOCATE Q2B SIREN

The existing Q2B mechanical siren shall be relocated to the center of the front bumper. The siren shall be surface mounted and wired as original. The electronic siren speaker shall be located to the right side of the bumper.

FUEL TANK STRAPS

Supply and installed two (2) new stainless steel fuel tanks straps and isolators in place of the original.

LADDER RACK HANDLE

Supply and install one (1) replacement ladder rack handle in place of the damaged one.

CAB BOTTLE BRACKETS

The cab SCBA seat brackets shall be updated with retainer straps per NFPA standards.

EXISTING EQUIPMENT

Any equipment which needed to be removed or relocated due the refurbishing process shall be reinstalled by the successful bidder under the direction of the Concord Fire Department.

WARRANTY

The cab and body repairs shall be covered for labor and materials including paint for no less than one (1) year. Documentation to support warranties must be supplied with the bid. Exempt are existing designs that are unchanged.

"OPTIONS"

These items must be priced separately.

OPTION #1

HOSEBED AND CROSSLAY COVERS

Supply and install one (1) full-length custom vinyl hosebed cover. It shall be fastened in place using a combination of snaps and velcro. The cover shall be equipped with a custom rear weighted hosebed flap. The crosslays shall be equipped with vinyl covers in accordance with NFPA. All vinyl shall be red in color.

\$ _____

OPTION #2

RADIATOR

Remove and re-core the existing radiator. Replace the upper and lower radiator hoses. The coolant shall be replaced and the PH rating confirmed to the engine OEM guidelines.

\$ _____

OPTION #3

PUMP DISCHARGE MANIFOLD

Supply and install a new custom fabricated steel discharge manifold as original.

\$ _____

OPTION #4

PUMP INTAKE MANIFOLD

Supply and install a new custom fabricated steel intake manifold as original.

\$ _____

OPTION #5

CAB SCENE LIGHTS

Supply and install one (1) 750 watt cab mounted brow light. The light will be wired to inverter and switched in the cab.

\$ _____

OPTION #6

HEATED MIRRORS

Supply and install two (2) new west coast mirror heads with heat. The new mirrors shall be a direct replacement and shall use the existing brackets. The heat function shall be controlled by a switch in the cab.

\$ _____

OPTION #7

GROUND LIGHTING

Supply and install six (6) ground lights. The lights shall be located as follows: 2 in the front corners of the cab, 2 at mid apparatus, and 2 at the rear corners of the body. The lights will be controls by a switch in the cab.

\$ _____