

TOWN OF BRANFORD
REQUEST FOR PROPOSAL
INVITATION TO BID
BRANFORD FIRE DEPARTMENT-LIGHT RESCUE TRUCK

The Town of Branford, Office of the Purchasing Agent, is accepting proposals for a Light Rescue Fire Truck. Specifications may be obtained from Purchasing Dept, 1019 Main St. Branford, Conn. or on the Town website at www.branford-ct.gov

Proposals will be received until 3:00 p.m., Aug. 11, 2009 and opened publicly @ 3:30 p.m. Aug. 11, 2009. Sealed proposals should be submitted in a sealed envelope marked 'Light Rescue Truck' to the Office of the Purchasing Department, 1019 Main Street, Branford, CT 06405.

Nancy Porto
Purchasing Agent

Branford Fire Department **Rescue 5**

INTENT OF SPECIFICATIONS

It is the intent of these specifications to cover our bid for furnishing a complete non walk-in rescue apparatus equipped as hereinafter specified. With a view to obtaining the best results and the most acceptable apparatus for service in the fire department, these specifications cover the general requirements as to the type of construction, together with certain details as to finish, equipment and appliances with which the successful bidder must conform. Minor details of construction and materials where not otherwise specified are left to the discretion of the contractor, who will be solely responsible for the design and construction of all features. Vendors must include any special pricing, available discounts, and similar data as part of their proposal response. Data submitted after the proposal opening date cannot be considered.

SAFETY REQUIREMENTS

The unit specified meets all State and Federal safety standards and laws that are in effect on the date of the bid for the item(s) that are being specified and the particular use for which they are meant.

QUALITY AND WORKMANSHIP

The design of the apparatus shall embody the latest approved automotive engineering practices, experimental designs and methods shall not be acceptable. The workmanship shall be of the highest quality in its respective field. Special consideration is given to the following points: accessibility of the various units that require periodic maintenance, ease of operation (including driving) and symmetrical proportions. Construction shall be rugged and ample safety factors shall be provided to carry loads as specified.

DELIVERY & TERMS

The successful bidder shall agree to furnish the apparatus within **280** calendar days after the receipt of order. Deliveries affected by work stoppage, acts of terrorism, customer requested change orders, acts of nature, and other supplier related delays beyond the control of the Fire Apparatus Manufacturer shall be cause for an extended delivery date mutually agreed upon by the manufacturer and purchaser. Internal production backlogs from the Fire Apparatus Manufacturer shall not be cause for a delay in the apparatus delivery.

GENERAL CONSTRUCTION

The complete apparatus, assemblies, subassemblies, component parts and so on, will be designed and constructed with due consideration to the nature and distribution of the load to be sustained and to the general character of the service to which the apparatus is to be subjected when placed in service. All parts of the apparatus will be strong enough to withstand the general service under full load. The apparatus will be so designed that the various parts are readily accessible for lubrication, inspection, adjustment and repair.

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The apparatus will be designed and constructed, and the equipment so mounted, with due consideration to distribution of the load between the front and rear axles, that all specified equipment, loose equipment, and firefighters; will be carried without overloading or injuring the apparatus.

Does your proposal comply exactly as written? Yes No

OPERATION AND SERVICE DOCUMENTATION

The documentation will address at least the inspection, service, and operations of the fire apparatus and all major components thereof. The manufacturer shall also provide documentation of the following items for the entire apparatus and each major operating system or major component of the apparatus:

1. Manufacturers name and address
2. Country of manufacture
3. Source of service and technical information
4. Parts and replacement information
5. Descriptions, specifications, and ratings of the chassis, pump, and aerial device
6. Wiring diagrams for low voltage and line voltage systems to include the following information: representations of circuit logic for all electrical components and wiring, circuit identification, connector pin identification, zone location of electrical components, safety interlocks, alternator-battery power distribution circuits, and input/output assignment sheets or equivalent circuit logic implemented in multiplexing systems
7. Lubrication charts
8. Operating instructions for the chassis, any major components such as a pump or aerial device, and any auxiliary systems
9. Instructions regarding the frequency and procedure for recommended maintenance
10. Overall apparatus operating instructions
11. Safety considerations
12. Limitations of use
13. Inspection procedures
14. Recommended service procedures
15. Troubleshooting guide
16. Apparatus body, chassis, and other component manufacturers warranties
17. Special data required by this standard
18. A material safety data sheet (MSDS) for any fluid that is specified for use on the apparatus

The manufacturer shall deliver with the apparatus all manufacturers operations and service documents supplied with components and equipment that are installed or supplied by the manufacturer.

Does your proposal comply exactly as written? Yes No

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MANUFACTURING LABELS

A permanent plate shall be mounted in a compartment specifying the quantity and type of the following fluids that may be used in the apparatus for normal maintenance.

Where a fluid is not applicable to the unit, the plate shall be marked N/A to inform the service technician who may not be familiar with the apparatus.

- Engine oil
- Engine coolant
- Transmission fluid
- Pump transmission fluid
- Pump primer fluid
- Drive axle fluid
- Air conditioning refrigerant
- Power steering fluid
- Transfer case fluid
- Equipment rack fluid
- Air compressor system lubricant
- Generator system lubricant
- Front tires air pressure
- Rear tires air pressure

Does your proposal comply exactly as written?

Yes

No

REQUIRED LABELS:

SEAT BELT SIGN: An accident prevention sign stating “**Danger Personnel Must Be Seated And Seat Belts Must Be Fastened While Vehicle Is In Motion Or Death or Serious Injury May Result.**” shall be visible from each seating position.

SEATING CAPACITY SIGN: A permanent sign shall be installed in the drivers compartment specifying the maximum number of personnel the vehicle is designed to carry (seating capacity) per NFPA standards. It shall be located in an area visible to the driver and shall read “**SEATING CAPACITY (2)**”.

ACCIDENT PREVENTION SIGN: An accident prevention sign stating "**Danger Do Not Ride On Rear Step While Vehicle Is In Motion, Death Or Serious Injury May Result**" shall be placed so it is visible from the rear step of the vehicle. A similar sign shall be placed on the top mount walkway.

OVERALL TRAVEL CLEARANCE PLATE: There shall be a travel clearance-warning label located in the chassis cab. The travel clearance-warning label shall be located in easy view of the driver. The travel clearance-warning label to include the following information: **Overall travel clearance height in feet and inches.**

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GVW SIGN: The manufacturer shall supply the final manufacturer's furnished certification of GVWR and GAWR on a nameplate affixed to the vehicle.

TYPE OF FUEL SIGN: A “Diesel Fuel Only” nametag shall be attached to fuel fill access door.

FINAL STAGE LABEL: A nameplate shall certify that the completed vehicle conforms to the motor vehicle safety standards previously certified by the chassis manufacturer and that the final stage Manufacturer has not altered the certification. All nameplates and instruction plates shall be metal or plastic with the information permanently engraved, stamped, or etched thereon. Metal nameplates to be installed with plated screws. All nameplates are to be mounted in a conspicuous place.

Does your proposal comply exactly as written? Yes No

BID RESPONSE

It is the intent of this specification to solicit bids for a Truck specifically designed to meet the requirements of department. Each specification submitted shall be in the same order as the customer specification in order to properly evaluate each item. Each bidder shall indicate in the “Bidders Response” column whether or not they comply with the items requested. A detailed page marked “Clarifications” shall indicate any deviation however minor or major they may be in order to establish conformance. Each bid shall clearly state any and all items not included in the total cost of the apparatus.

Complete drawings of vehicle shall be submitted for committee review.

Does your proposal comply exactly as written? Yes No

OEM WARRANTIES

GENERAL WARRANTY

The following warranty will be furnished. The manufacture shall warrant each new piece of Fire Apparatus to be free from defects in material and workmanship under normal use and service. The obligation under this warranty is limited to repairing or replacing, as the Company may elect, any part or parts thereof which will be returned to the manufacturer with transportation charges prepaid and as to which examination will disclose to the Company's satisfaction to have been defective, provided that such part, or parts will be returned no later than a period of time set for by the manufacturer after delivery of covered apparatus. Such defective part or parts will be returned or replaced free of charge and without charge for installation to the original purchaser.

Does your proposal comply exactly as written? Yes No

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10 YEAR BODY & SUBFRAME WARRANTY

The manufacturer shall warrant each new fire body manufactured by it, if used in a normal and reasonable manner, against structural defects caused by defects in material, design or workmanship for a period of ten (10) years or 100,000 miles, the parts & labor to the original purchaser starting the day of final delivery.

Does your proposal comply exactly as written? Yes No

5 YEAR PAINT WARRANTY

The manufacturer shall warrant each new fire and rescue apparatus manufactured by it, if used in a normal and reasonable manner, against rust through, blistering, peeling or cracking of painted surfaces for a period of five (5) years or 50,000 miles, parts & labor to the original purchaser starting the day of final delivery. The manufacturer's obligation under this warranty is strictly limited to repairing or repainting, as the Company may elect any defective part.

Does your proposal comply exactly as written? Yes No

Delivery

The manufacturer shall deliver the completed apparatus to Branford Fire Headquarters for review and acceptance by the committee and the chief of the department on an agreed date set by both parties.

Does your proposal comply exactly as written? Yes No

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APPARATUS CHASSIS

MANUFACTURER: Ford Motor Company

MODEL: 2009 (or newer) F-550 Super Duty Standard Cab 4 X 4 Diesel
GVW: 19,500 lb.

ENGINE: 6.4 L IHC V-8 diesels
Horsepower Rating: 350HP

TRANSMISSION: 5-Speed Automatic with overdrive

FUEL & EXHAUST: Capacity – 40 USG
Exhaust Termination – Right Side in front of rear wheel.

FRONT AXLE: Drive Axle (FWD)
Rating – 7,000 lb
Springs – 6,000 lb

REAR AXLE: Dual Wheel
Rating 13,660 lb
Springs – 13,000 lb
Differential – 4.88 gear dual limited slip

TIRES:
225/70E19.5F SRB All Terrain
Rear tires shall have tire pressure equalization installed.

WHEELS: 19.5 X 6.0, 8 Hole
Steel Wheels with Stainless Simulators

BRAKES: ABS Power 4-wheel-disc brakes front/rear
Foot activated parking brake

CAB EQUIPMENT:

Ambulance Prep Package with Dual Alternators
XL Décor Package
Tilt Steering Wheel
Cruise Control
Dual Batteries
Power Windows
Power Locks

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Dual High Back Grey Cloth Bucket Seats
Two (2) Seatbelts
Intermittent Wipers
Heat/Defroster
Air Conditioning
Tinted Glass

Gauges:

- Speedometer
- Fuel
- Odometer
- Oil Pressure
- Tachometer
- Voltage

Dual Electric Horns
AM/FM Stereo Radio
Black Electric Trailer tow mirrors
Dome Light
Grey Cloth Headliner
Driver & Passenger Air Bags
Power Steering

BUMPER: Chrome

Does your proposal comply exactly as written? Yes No

MISCELANEOUS

Fuel Filter
1.38" Front & Rear Shock Absorbers
Front & Rear Stabilizers
Noise Reduction Package
Stainless Step Bars

Does your proposal comply exactly as written? Yes No

MAP HOLDER

An aluminum map book storage console shall be manufactured and installed between the bucket seats. It shall accommodate a map book, clipboard, and gloves. The exact size to be determined at the time of pre-construction

Does your proposal comply exactly as written? Yes No

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APPARATUS BODY

ALL ALUMINUM RESCUE MODULE

The body shall be all aluminum constructed. The body shall have seven each exterior compartments.

The body shall be mounted on the before mentioned chassis and shall come with a ten year structural warranty.

Does your proposal comply exactly as written? Yes No

BODY CONSTRUCTION OVERVIEW

The body shall be constructed of custom aluminum extrusions and aluminum plate specifically designed for fire & rescue applications. The body shall be designed and engineered specifically for Emergency Vehicles and shall be built to meet the duty cycle for Fire and Rescue services. Manufacturers using modified stamped aluminum bodies designed for purposes other than emergency response shall not be allowed.

The body shall be welded construction for maximum strength and integrity for the entire life of the apparatus.

The aluminum extrusions shall be custom designed structural shapes that are an alloy of 6061 and heated to a temper of T-6 hardness. The aluminum shapes shall be designed with a force fit interlock system that shall eliminate any vibration to the welded structural members.

The floor, roof, and sidewalls shall be of cage construction that is built to form an independent structure which shall be self standing and rigid. The body shall then be mounted. No chassis building shall be required or permitted.

The exterior walls shall be constructed of 5052-H32 with a heat-treated plate that is stretch leveled to a tolerance of +/- 0.003. The exterior wall shall interlock into place.

Does your proposal comply exactly as written? Yes No

ROOF CONSTRUCTION

The roof shall be constructed of .100" thick aluminum diamond plate. The roof structure shall consist of 2 inch x 2 inch 5052-H32 aluminum structural "Z" sections that shall span the full width of the body.

The roof structural members shall be welded to the diamond plate roof and to the inner structural connector of the radius. The diamond plate sheet roof shall be completely welded to the roof

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radii, which connects directly to the side wall structure.

No caulking or screws shall be utilized or acceptable.

Does your proposal comply exactly as written? Yes No

ROOF RADIUS

The roof radius shall be an extruded aluminum shape with an alloy and temper of 6061-T6 with an ultimate strength of 42,000 psi. The shape shall be a three inch radius with a built in inner structural connector to form a one piece side and roof structure.

The radius shall be semi hollow shape for strength, reduced weight and to also allow passage for electrical wires.

The roof and side sheets shall fit into the roof radius and shall be welded from the inside of the body.

Does your proposal comply exactly as written? Yes No

CORNER RADIUS

The corner radius shall be of the same heavy construction as the roof radius, except there shall be no built in drip molding. The corner radius shall be a three inch radius.

All corners shall be semi hollow extruded shapes for structural strength and shall give a smooth exterior appearance without bending or forming sheet metal.

Does your proposal comply exactly as written? Yes No

RESCUE SIDE STRUCTURE

The sides shall be constructed with four corner radius. The radius shall be three-inch arc shapes with interlock edges on both sides. The extrusions shall be of an alloy of 6063 with a heat-treated temper of T-6.

The corner and roof shall be designed to work as a system that has a double gusset connector in each corner joint. The roof, corner, and sides shall be welded so as no bolts or rivets are required or permitted.

Sides shall be jig locked style construction. The jig shall hold the corners and body side panels in place while inner 6063-T6 structure is welded into place. The members shall be located 12 inches on center and welded to the roof rail, inner structural connector that shall be the roof members.

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The doorframe shall be designed to match fit the exterior compartment doors. The frame shall be a full 1/4 inch thick to allow taping for door hinges. The doorframe shall have an exterior trim edge that shall channel any water away from the compartment opening.

Does your proposal comply exactly as written? Yes No

FLOOR STRUCTURE

The floor structure shall consist of 2" x 2" x .125" structural 6063-T6 aluminum tubing located on 12 inch centers. These tubes shall extend the full width of the body between compartment boxes.

The floor tubes shall be welded to the side structure channels. The interior floor surface shall be covered with aluminum plate with a thickness of .125 inch.

Does your proposal comply exactly as written? Yes No

DOOR FRAME CONSTRUCTION

All door edges and doorframes shall be constructed of aluminum. All doorframes shall be welded to the exterior sheets and to the side structure channels.

Does your proposal comply exactly as written? Yes No

ROM ROLL UP DOOR CONSTRUCTION:

Each front exterior compartment shall have a (ROM) Robinson Series III brand roll up door installed. The roll up doors are constructed from brush finished anodized aluminum extruded slats, which have a flexible seal between each slat for proper sealing of the door. Each door shall be equipped with a latch type lift mechanism, which latches at the bottom of the door mounting extrusion. (Gortite - Approved Alternate)

Does your proposal comply exactly as written? Yes No

ROBINSON "WATER DAM" DOOR SEALS

Each compartment that is equipped with a (ROM) Robinson Series III rollup door shall have a "Water Dam" sill installed in the bottom of the compartment to reduce water and other liquids from entering the compartments. The door sill shall act as a scuff plate to reduce paint damage from equipment.

Exterior door panels shall be .125 inch thick 5052-H32 aluminum plate with an ultimate strength of 38,000 psi.

The inner door liner shall be constructed of .100 inch aluminum diamond plate sheets with an alloy and temper of 3003-H13. The liners shall be fastened to the door with stainless steel

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screws. The liner shall be removable for access to the latching mechanism.

The complete door when finished shall be approximately 1-3/4 inches thick. The doors shall fit flush into the door frames and meets with a weatherproof gasket.

Does your proposal comply exactly as written? Yes No

COMPARTMENT CONSTRUCTION

All exterior compartments shall be constructed of .125" smooth aluminum plate. All corners shall be welded.

Each compartment shall be vented with a minimum four-inch aluminum vent. All compartment floors shall be of the "sweep out" style.

Does your proposal comply exactly as written? Yes No

BODY MOUNTING

The body structure sills shall be constructed of 3 inch x 1/2 inch aluminum flat bar. The flat bar shall be welded to every cross channel on both sides. The chassis and body shall be separated with a 1/2" x 3" non-metal sill.

The body shall be capable of being removed from and transferred to a new chassis similarly sized to the old chassis. There shall be adequate space left between the cab and body.

The body shall be attached to the chassis using 5/8 inch steel "U" bolts. The body shall be mounted as per the chassis manufacturer's guidelines. (No Exceptions)

Does your proposal comply exactly as written? Yes No

FENDERS AND WHEEL WELLS

The wheel well openings shall be of sufficient opening to permit the utilization of tire chains or other traction devices. The wheel well shall be provided with full fender liners that shall be formed so as to eliminate pockets that might traps and collect road dirt.

Fenders shall be of a heavy-duty aluminum style. The liner shall be constructed of .125 inch aluminum and flanges at the bottom edge.

The area above the fender surface shall be trimmed with aluminum diamond plate for complete protection from chain kick back.

Does your proposal comply exactly as written? Yes No

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EXTERIOR BODY TRIM

The exterior of the body shall be fitted with .125 inch bright aluminum diamond plate kick panel above the rear step. Kick plates shall be a minimum of 14 inches high.

Rock shields shall be a minimum of 14 inches in height and shall conform to the front and rear radius of the body on each side.

There shall be 1 inch x 2 inch bright aluminum diamond plate rub rail installed at the lowest edge of the apparatus body between the wheel well panels and the front and rear rock guard shields and kick plates.

Does your proposal comply exactly as written? Yes No

STONE GUARDS AND PROTECTION PANELS

There shall be additional protection panels installed on the apparatus at areas subject to intensive wear, scuffing and abuse.

The protection panels shall be constructed from aluminum diamond plate or stainless steel material.

Does your proposal comply exactly as written? Yes No

APPARATUS BODY AND CHASSIS PAINTING

Prior to applying the first coat of primer, all removable hardware items such as doors, handles, hinges, grab rails, lights etc. shall be removed.

The entire body shall be fully ground smooth and sanded to eliminate any visible welded deflections. The priming and final coat application shall conform to paint manufacturers guidelines.

The apparatus body and Chassis shall be painted one color polyurethane to match the paint color of the Branford Fire Department. Exact paint code and layout shall be determined during pre construction conference.

Does your proposal comply exactly as written? Yes No

SWEEP-OUT CONSTRUCTION

All side body compartments shall have sweep out type floors. All compartments shall be made to the largest practical dimensions to provide maximum storage capacity for fire department equipment. Compartments that are fabricated without a "Sweep Out" design shall be

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immediately rejected. (No Exceptions)

All compartments shall have aluminum vents on the top rear wall of the compartment. An aluminum cover shall be provided and installed on the outside of the compartment to shield water from entering the compartment at the vent area.

Does your proposal comply exactly as written? Yes No

REAR TAILBOARD

Rear step shall be constructed of 3/16" polished aluminum diamondette and supported by a structural steel sub-frame. The tailboard when apparatus is fully loaded shall have a maximum ground clearance of 24" when sitting on a level surface. The tailboard shall be flanged down to provide added strength and rigidity and to prevent cutting of hands while washing the apparatus. Rear step shall be spaced away from body a minimum of 1/4". The rear step shall be 12.5" deep and run the entire width of the apparatus. All stepping surfaces shall be in compliance with the latest version of all applicable NFPA standards.

Does your proposal comply exactly as written? Yes No

HANDRAILS

All handrails used on apparatus shall be 1-1/4" diameter stainless steel tube supported at each end by a chrome-plated stanchion. All rails shall be designed and mounted to reduce the possibility of hand slippage and to avoid snagging of equipment or clothing. Drain holes shall be provided in the bottom of all vertically mounted assist handles. Handrails shall be installed in the following locations:

Two (2) 24" vertical handrails shall be installed on the rear of the apparatus to the left and right of the compartment

Does your proposal comply exactly as written? Yes No

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COMPARTMENTATION

LEFT FRONT - COMPARTMENT "A"

This compartment shall be approximately 64 inches high x 58 inches wide x transverse.

The compartment shall have a natural finish roll up style door.

Does your proposal comply exactly as written? Yes No

LEFT WHEELWELL - COMPARTMENT "B"

This compartment shall be located above the wheel well and shall be approximately 47 inches high x 48 inches wide x transverse.

The compartment shall have a natural finish roll up style door.

Does your proposal comply exactly as written? Yes No

LEFT REAR - COMPARTMENT "C"

This compartment shall be located between the wheel well and the rear of the apparatus and shall be approximately 64 inches high x 38 inches wide x 21 inches deep.

The compartment shall have a natural finish roll up style door.

Does your proposal comply exactly as written? Yes No

RIGHT FRONT - COMPARTMENT "D"

This compartment shall be approximately 64 inches high x 58 inches wide x transverse.

The compartment shall have a natural finish roll up style door.

Does your proposal comply exactly as written? Yes No

RIGHT WHEELWELL - COMPARTMENT "E"

This compartment shall be located above the wheel well and shall be approximately 47 inches high x 48 inches wide x transverse..

The compartment shall have a natural finish roll up style door.

Does your proposal comply exactly as written? Yes No

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REAR - COMPARTMENT "F"

This compartment shall be located between the wheel well and the rear of the apparatus and shall be approximately 64 inches high x 38 inches wide x 21 inches deep.

The compartment shall have a natural finish roll up style door.

Does your proposal comply exactly as written? Yes No

REAR - COMPARTMENT "G"

This compartment shall be located on the rear of the apparatus and shall be approximately 52 inches high x 48 inches wide x 38 inches deep. The door opening shall be a minimum of 46 inches wide by 39 inches high.

The compartment shall have a natural finish roll up style door.

Does your proposal comply exactly as written? Yes No

ADJUSTABLE SHELVES

There shall be adjustable shelves in exterior compartments "Cx2", "Fx4", "Gx1". The shelves shall be constructed of 3/16 or greater aluminum for durability and ease of mounting equipment. All other compartments shall have the tracks installed for future shelves. The shelves shall be fully adjustable from the top of the compartment to the bottom.

Does your proposal comply exactly as written? Yes No

COMPARTMENT COATING

The interior of the compartments shall be coated with a grey Zolotone finish.

Does your proposal comply exactly as written? Yes No

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APPARATUS ELECTRICAL

ELECTRICAL STANDARDS

All wiring and electrical equipment shall meet SAE standards. All lighting and reflectors shall meet Federal Motor Vehicle Standards.

All OEM wiring shall be color and function coded. (NO EXCEPTIONS)

The optical warning system on the fire apparatus shall be capable of two separate signaling modes during emergency operations. One mode shall signal to drivers and pedestrians that the apparatus is responding to an emergency and is calling for the right of way. The other mode shall signal that the apparatus is stopped and is blocking the right of way. The parking brake switch shall determine, through the use of switching, which mode the emergency lighting is in.

The optical warning devices shall be constructed or arranged to avoid the projection of light either directly or through mirrors into any driving or crew compartments.

Illumination shall be provided for controls switches, essential instructions, gauges, and instruments necessary for the operation of the apparatus and the equipment provided on it. Where external illumination is provided, it shall be a minimum of 5 foot-candles on the face of the device. Where external illumination is provided, it shall be a minimum of 4-foot lamberts.

Hydraulic lines, air system tubing, control cables, and electrical lines shall be clipped to the frame or body structure of the apparatus and shall be furnished with protective heat looms and/or grommets at each point where they pass through body panels or structural members.

Where any through-the-frame connector is provided, any such connector and wiring shall also be protected from shear or tear. Wiring shall be provided with properly rated low voltage over current automatic resetting protective devices. (The headlight circuit breaker shall be of the automatic reset frier type).

Such devices shall be readily accessible and protected against excessive heat, damage and water spray. Switches, relays, terminals, and connectors shall have a direct current rating of 125 percent of maximum current for which the circuit is protected. Electromagnetic interference suppression shall be in accordance with SAE J551, performance levels and methods of measurement of electromagnetic radiation from vehicles and devices (30-1000 MHZ).

All relays and circuit breakers shall be "plug in" type for easy replacement. All components shall be protected against corrosion, heat, vibration and moisture. The relay panel shall be installed in the cab on the floor, between the seats and have an easily removable, aluminum cover. Relay panels mounted in compartments shall not be permitted due to the increased risk of damage from moisture. (No Exceptions)

Does your proposal comply exactly as written? Yes No

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SWITCH CONSOLE

A 12” center console shall be mounted between the driver and officer seat in easy reach of both occupants. The console will house:

- The TST Tech 6 or similar
- The door ajar indicator light
- The battery indicator light
- Low voltage indicator light
- Room for future install of customer radio

Does your proposal comply exactly as written? Yes No

SWITCHING & CONTROLS

All apparatus warning lights shall be controlled utilizing a TST control module with push button switches or similar.

Does your proposal comply exactly as written? Yes No

LOAD MANAGEMENT SYSTEM

A Load Manager shall be provided and installed on the vehicle. The Load Manager is designed to meet and exceed all the requirements of NFPA 1901. The system shall sequence a total of eight (8) loads.

Load shedding is accomplished in two zones; one (1) zone for lights that may be shed when on the road and the other for lights that may be shed at the scene. Selection of shedding modes is through the parking brake switch or the neutral safety switch.

A high voltage detector shall be provided to detect when the sensed voltage exceeds 15 volts. High voltage, low voltage and load shedding set points are individually field adjustable. Load shedding priority is determined by the wiring connections to the Load Manager. (No Exceptions)

Does your proposal comply exactly as written? Yes No

LOW-VOLTAGE SYSTEM (LVS)

A Low Voltage Alarm system shall be provided and installed on the vehicle. It is designed to meet and exceed all the requirements of NFPA 1901.

Does your proposal comply exactly as written? Yes No

DOT LIGHTING

Two (2) amber and two (2) red side body running lights shall be provided and mounted, one (1)

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amber and one (1) red on each side approximately midway between the front and rear axle. There shall be one (1) amber turn signal light with protective covers furnished and mounted in front of the axle since it is 32.5” long. There shall be five (5) lights located on the rear of the vehicle. Three (3) of the lights shall be in the tailboard area for use as identification lamps. Two (2) lights shall be provided on top rear corners, located as high and wide as possible, one (1) each side, for use as clearance lamps. Vehicle must be able to pass the State of Connecticut D.O.T inspection on delivery all needed items and labor will be at the cost of the vendor.

Does your proposal comply exactly as written? Yes No

TAIL LIGHTS

Two (2) Whelen **600** Series maximum intensity stop/tail/brake lights with chrome bezels shall be supplied.

Two (2) Whelen **600** Series Halogen back-up lights with chrome bezels shall be supplied.

Two (2) Whelen **600** Series LED directional turn signal arrows with chrome bezels shall be installed on the rear of the apparatus.

Does your proposal comply exactly as written? Yes No

CAST PRODUCTS HOUSING

There shall be Two (2) Cast Products polished aluminum housings installed on the rear of the apparatus for mounting taillights and lower zone warning lights.

Does your proposal comply exactly as written? Yes No

COMPARTMENT LIGHTING

One (1) LED rope style strip lighting shall be installed in each enclosed compartment .The Lighting shall begin at the lower left hand of compartment upwards to the ceiling across and back down terminating at the floor. The lights shall be clear/white in color (No Exceptions)

Does your proposal comply exactly as written? Yes No

DOOR OPEN HAZARD LIGHT

There shall be a flashing red light located on the cab dash in clear view of the driver. This light shall be illuminated automatically whenever any passenger or equipment compartment door is open. The light shall be marked “Do Not Move Apparatus When Light Is On”.

Does your proposal comply exactly as written? Yes No

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LICENSE PLATE LIGHT

A license plate bracket with light shall be provided and installed on the left hand rear of the body. It shall be wired to come on with the headlights.

Does your proposal comply exactly as written? Yes No

UNDERBODY/CAB GROUND LIGHTS

Four (4) Truck-Lite 4" clear ground illumination lights, with outward facing angle brackets shall be provided and installed. Two (2) shall be located under the cab doors, and two (2) shall be located to light the rear tailboard area. The lights shall activate with the parking brake and a switch on the center console.

Does your proposal comply exactly as written? Yes No

EMERGENCY LIGHTING

NFPA-1901 Emergency lighting shall consist of:

CAB UPPER ZONE WARNING LIGHTS

One (1) 55" Whelen Model SLN2Q LED all LED light bar with 6 red 500 series modules and 4 white series 500 LED Modules shall be provided and installed on the cab roof.

Does your proposal comply exactly as written? Yes No

CAB LOWER ZONE WARNING LIGHTS

Four (4) Whelen **50R03ZCR** Series warning red light heads with clear lenses and chrome bezels shall be installed as follows:

- Two (2) in chassis grille (one each side)
- One (1) left front fender
- One (1) right rear fender

Does your proposal comply exactly as written? Yes No

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BODY WARNING LIGHTS

Ten (10) Whelen **60RRSFCR** Series **Red/Red** split light heads with clear lenses and chrome bezels shall be provided and installed as follows:

- Four (4) rear facing Red
 - Two Upper Zone
 - Two Lower Zone
- Two (2) in the upper portion of the body. Left Front & Left Rear
- Two (2) in the upper portion of the body. Right Front & Right Rear
- Two (2) in the lower zone wheel well area.

Two (2) Whelen **60ARSFCR** Series **Amber** lighthoods with clear lenses and chrome bezels shall be provided and installed as follows:

- Two (2) rear facing Upper Zone (one each side)

Does your proposal comply exactly as written? Yes No

HALOGEN SCENE LIGHTING

Six (6) Whelen **700** Series clear halogen scene lights with clear lenses and chrome bezels shall be installed as follows:

- Two (2) rear facing upper zone. (One each side)
- Two (2) in the upper portion of the body. Left Front & Left Rear
- Two (2) in the upper portion of the body. Right Front & Right Rear

Does your proposal comply exactly as written? Yes No

TRAFFIC ADVISOR

One (1) **Whelen TAM85** Eight Lamp Super-LED® Traffic Advisor shall be installed on the rear of the apparatus below the rear scene lights. The control module shall be installed on the Jotto desk console in the cab.

Does your proposal comply exactly as written? Yes No

SIREN

One (1) **Whelen 295HFS** siren with piercer shall be furnished and installed in the warning light switch tower between the driver & officer. The hard-wired noise-canceling microphone shall be installed on the dash within easy reach of the driver or officer. It shall have a two (2) year standard warranty from the manufacturer.

Does your proposal comply exactly as written? Yes No

Branford Fire Department
Rescue 5

SIREN SPEAKER

There shall be Two (2) 100-watt ambulance style cast siren speakers furnished and recessed in the left and right side of the bumper. No surface mounted speakers shall be permitted. (No Exceptions)

Does your proposal comply exactly as written? Yes No

REFLECTIVE STRIPING

One (1) 6" White Scotchlite stripe on each side, conforming to Federal Specification for Reflectivity, shall be provided down both sides of the cab and body. The reflective stripe shall cover at least at least 50 percent of the cab and body length on each side, at least 50 percent of the width of the rear, and at least 25 percent of the width of the front of the apparatus. It shall be in the Z fashion starting low on the front door and ending in the middle of the rear body in the rear body Scotchlite Brand Only (No Exceptions)

An alternating Red/Yellow NFPA compliant retroreflective chevron shall cover at least 50% of the apparatus rear.

Does your proposal comply exactly as written? Yes No

LETTERING

A minimum of One hundred and twenty (120) Mylar Gold Leaf letters shall be included and installed. The exact location and font shall be determined at the time of pre-construction. Also a Department emblem for each door to match current apparatus.

Does your proposal comply exactly as written? Yes No

TOUCH-UP PAINT

A container of touch-up paint will be provided to match the finish cab color.

Does your proposal comply exactly as written? Yes No

SCBA BOTTLE STORAGE

There shall be three (3) breathing air cylinder bottle storage compartments installed in the wheel well area.

- Two (2) Right Side
- One (1) Left Side

Does your proposal comply exactly as written? Yes No

Branford Fire Department **Rescue 5**

ROLLOUT TRAYS

There shall be floor mounted slide out trays installed on the apparatus. Each tray shall be fabricated from smooth aluminum to fit compartment width.

- One (1) "B" min of 250 lbs capacity
- One (1) "C" min of 250 lbs capacity
- One (1) "E" min of 250 lbs capacity
- One (1) "G" min of 500 lbs capacity

Does your proposal comply exactly as written?

Yes No

SHADOW LIGHT TOWER

The apparatus shall be equipped with one (1) Shadow Light SL445-RT, all electric floodlight tower. The unit shall not require tapping into vehicle braking system to be operated, eliminating the chance for vehicle brake problems. Hydraulic or pneumatic type floodlights shall not acceptable alternatives to the all electric light tower specified.

The light tower shall have four (4) weatherproof, **150 watt, 12 volt HID lights**. Light heads shall be mounted in a cluster to provide maximum illumination.

The light tower shall have slip-rings for full 360 rotation. Further the tower shall be capable of rotating either direction from a stowed position, no exceptions.

Light tower shall be controlled with a hand-held umbilical line remote control. The storage station for the remote control unit shall be equipped with a button to activate the "Auto-Park" automatic nesting feature. The controls on the remote box shall be:

- Three (3) switches, one (1) for each light bank.
- One (1) light bank rotation switch.
- One (1) switch for elevating lower stage.
- One (1) switch for elevating upper stage.
- One (1) indicator light to indicate when light bank is out of roof nest position.
- One (1) indicator light to indicate when light bank is rotated to proper nest position.

The controls shall be located per Fire Department instructions.

The tower base shall have a light the illuminates the envelope of motion during any movements of the light tower mast.

The light tower shall have a full extension over 3 feet from mounted position and extend from nest position to full upright in 15 seconds. The overall size of nested light tower shall be approximately 24" wide x 42" long x 10" high, and weight approximately 50 lbs.

The light tower shall be all aluminum construction, with stainless steel shafts and bronze bushings for long life and low maintenance.

Branford Fire Department
Rescue 5

Does your proposal comply exactly as written? Yes No

TELESCOPIC TRIPOD 500 WATT FLOODLIGHT

Two (2) Fire Research Optimum model **OPA656-S50** tripod telescopic lights shall be provided. 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 extend 28" and rotate 360 degrees. An internal brake shall slow the extension pole during lowering. The outer pole shall be a grooved aluminum extrusion. The folding legs shall be anodized aluminum tubing with plastic endcaps. The fully extended tripod system shall exceed a height of 8' and be less than 5' when collapsed. Wiring shall extend from the pole bottom with a 4' retractable cord.

The lamp head shall have one (1) quartz halogen 500 watt 120 volt bulb. The bulb will draw 4.2 amps and generate 10,500 lumens. The bulb shall be accessible through the front. The lamp head shall incorporate a vacuum deposit polished reflector and two optimizing mirrors to produce a uniform beam that lights up an area 100° vertically by 150° horizontally. The lamp head shall have a heat dissipating curved front lens. The curve of the lens shall have a radius of 5.16 inches to optimize light emission. The lamp head shall be no more than 4 3/4" deep by 5 1/8" high by 8 3/4" wide. Lamp head and brackets shall be powder coated white.

Each light shall be controlled at the light head. A 110v NEMA L5-15 Twist Lock plug shall be included.

The lights shall be supplied by a customer installed generator.

Does your proposal comply exactly as written? Yes No

LIGHT TOWER SHIELD

The tower shall be mounted in a 3/16th inch diamond plate aluminum shield to protect the tower from limb damage and other small debris. The tray shall be fabricated with an open top and will be approximately 1" higher, wider, and longer than the actual light tower when stowed.

Does your proposal comply exactly as written? Yes No

WINCH

There shall be a 12,000 lb. Warn winch mounted on the front of the apparatus. A 150' cable with a minimum cable diameter of 3/8" with a single tow hook shall be included. A 4-Way roller assembly shall be installed to prevent damage to cabling. A single remote control shall be included.

Does your proposal comply exactly as written? Yes No

Branford Fire Department
Rescue 5

BRUSH GUARD

A Warn bumper and brush guard shall be installed on the front apparatus bumper. The bumper shall be all chrome plated steel construction.

Does your proposal comply exactly as written? Yes No

STOKES BASKET & LADDER STORAGE

A compartment shall be incorporated into the upper right corner of compartment “A” It shall have access from both sides of the body. The compartment shall be designed to store;

- One (1) customer supplied stokes basket. Customer shall provide dimensions prior to the fabrication.
- Two customer supplied back boards. Customer shall provide dimensions prior to the fabrication.

Does your proposal comply exactly as written? Yes No

HYDRAULIC REELS

Two (2) Hannay hydraulic reels with **100ft.** of dual line hose compatible with Hurst standard operating equipment with capture rollers shall be mounted to the roof of the center rear compartment. Each shall be controlled by a momentary push button switch located adjacent to each reel and will have six foot feeder line for each reel.

Does your proposal comply exactly as written? Yes No

KUSSMAUL AUTO-CHARGE

One (1) Kussmaul Auto Charge 1200 **Model 091-53-12** with remote indicator shall be installed on the apparatus.

Does your proposal comply exactly as written? Yes No

KUSSMAUL SUPER AUTO-EJECT

One (1) Kussmaul Super Auto Eject **Model 091-55-15-120** receptacle with a Yellow cover **Model 091-55YW** shall be installed on the left forward facing wall of the apparatus body. The receptacle shall be installed as far outboard as the structure of the body will allow.

Does your proposal comply exactly as written? Yes No

Branford Fire Department
Rescue 5

SLIDE OUT ALUMINUM TOOLBOARD

There shall be two (2) full height x 4ft deep , slide out aluminum toolboard provided. The toolboard shall be constructed of a min of 3/16" aluminum plate. They shall utilize a pneumatic cylinder to hold the toolboard in both the opened and closed position. The toolboards shall be mounted to an adjustable unistrut to allow the tool boards to be relocated for best fit in compartment "D". Board number 1 shall be mount as far forward a possible and board number 2 shall be mounted 24" from the board 1.

The unistrut toolboard shall have a maintenance free abraded finish.

Does your proposal comply exactly as written? Yes No

WHEEL CHOCKS

There shall be two (2) wheel chocks furnished and installed under the left side of the apparatus body. There shall be one (1) wheel chock in front of the rear wheels and one (1) wheel chock behind the rear wheels.

Does your proposal comply exactly as written? Yes No

Receiver Hitch and light receptacle

A class 5 receiver hitch and 7 wire trailer light socket. Install on the left side of the receiver.

Does your proposal comply exactly as written? Yes No

TOWN OF BRANFORD
OFFICE OF THE TREASUER



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FAX: 315-3736

**General Requirements for Bidding
and
Instructions to Bidders**

NOTICE

Information provided in these specifications is ***CONFIDENTIAL*** and is to be used only for the purpose of preparing a proposal. It is further expected that each bidder will read these specifications with care, for failure to meet every one or a combination of specified conditions may invalidate the proposal.

The Town reserves the right to reject any or all bids or any portion thereof and to accept the bid deemed to be in the best interest of the Town of Branford.

Bidders are requested to submit quotations on the basis of these specifications. Alternate quotations will receive consideration providing such alternatives are clearly explained.

The information contained herein is believed to be accurate and is based upon the latest available information but is not to be considered in any way as a warranty.

Revised 5/09
Standard Form

SECTION I - General Terms and Conditions

A. Compliance with Laws

The bidder shall at all times observe and comply with all laws, ordinances and regulations of the federal, state and local governments, which may in any way affect the preparation or the performance of the contract.

B. Timetable

Price quoted must be valid for _____ days. Delivery and installation completion dates must be included in the bid proposal.

C. Consideration of Proposals

The Board of Selectmen, or a majority of them, reserve the right to select or reject alternate proposals; to waive informality in proposals; and to reject any and all bids, or accept such bid as shall in its judgement be to the best interest of the Town of Branford.

D. Bid Bond **See Bid Proposal Sheet*

1. A certified check or bank draft made payable to the “Treasurer, Town of Branford”, or a satisfactory bid executed by the bidder and a surety company in an amount no less than five percent (5%) of the base bid, may be required with each proposal.
2. Checks or drafts will be returned to unsuccessful bidders within ten (10) business days of the bid opening.

E. Performance Bond **See Bid Proposal Sheet*

Successful bidders may be required to furnish a Performance and Payment Bond in the amount of 100% of the contract sum.

F. Protection of Work and Property

Successful bidders shall be responsible for protection of their equipment and materials against theft, damage or deterioration on the site.

G. Competency of Bidders

1. Bidders shall have had proven experience in the field of work.
2. Bidders shall submit with their bid a listing of recent work performed within the State of Connecticut of the size equal to or greater than the work being bid.

H. Alternates

1. Any alternates to specified materials or workmanship must be separately listed and described in detail.
2. Alternates will be considered in awarding the contract only if they provide, as a minimum requirement, all features contained in the specifications.
3. The Town of Branford reserves the sole right to determine through its agents the equality of alternate products and/or installation procedures.

I. Bid Requirements

1. Each bidder shall return two (2) copies of the proposal sheet entitled "Bid Proposal".
2. Each bid proposal must be signed by an authorized agent of the bidder.
3. Successful bidders must obtain any required governmental approvals.

J. Specifications – General

The contract shall include all labor and materials, tools and equipment and services required for proper performance of the work as specified hereinafter and as may be required for proper completion of the work in accordance with the highest standards of the trades involved.

K. Examination of Site

Prior to submission of the bid, contractor shall visit the site, consult with the supervisor, and become thoroughly familiar with all conditions under which the work will be installed. The contractor will be responsible for any assumptions made regarding the site for the work to be performed.

SECTION II - Insurance Requirements

The contractor, following award of the contract, may be required to furnish to the Town of Branford a Certificate of Insurance for the following coverage:

1. Comprehensive General Liability
2. Property Liability Insurance
3. Automobile Liability **
4. Workmen's Compensation and Employees Liability**
5. Professional Liability

In addition to the coverage delineated above, Builders Risk Insurance may be required for construction contracts. The limits of insurance unless otherwise specified shall be as follows:

A. General Liability

Combined single limit of \$1,000,000; Bodily Injury \$500,000 per occurrence; Property Damage \$500,000 per occurrence. The insurance carried by the bidder shall include the following coverage:

1. Comprehensive Form
2. Premises Operations
3. Products Completed Operations
4. Contractual – Hold Harmless Requirements**
5. Independent Contractors
6. Broad Form Property Damage
7. Personal Injury

B. Hold Harmless Requirements

The contractor shall, at all times, indemnify and save harmless the Town of Branford, its officers, agents, and servants on account of any and all claims, damages, losses, litigation expense, counsel fees and compensation

arising out of injuries (including death) sustained by or alleged to have been sustained by the public, any or all persons affected by the contractor's work, or by the contractor, any subcontractor, material, men or anyone directly or indirectly employed by them or any one of them while engaged in the performance of this contract. The Town of Branford shall be named as an additional insured on said policy of public liability insurance to cover all claims against the Town arising out of said contract.

C. Automobile Liability

Combined single limit of \$1,000,000; Bodily Injury \$500,000 per person/accident; Property Damage \$500,000 per accident.

Comprehensive automobile policy to cover all automobile or vehicles owned, hired or owned by contractor's employees and used on business.

D. Workers' Compensation

The contractor must have workers' compensation and liability insurance as provided by Connecticut and federal law with statutory limits of \$100,000 per accident, \$100,000 disease each employee and \$500,000 disease policy limit

The contract shall procure and pay for the insurance coverage described above with the minimum limits of liability as stated. The Certification of Insurance shall certify that said coverage shall be in effect for the term of the contract.

The Town of Branford shall be named as an additional insured on the General Liability Insurance Policy. All policies shall provide for sixty (60) days written notice prior to cancellation, substantial change or non-renewal.

The contractor must be in compliance with the State of Connecticut Public Act Section 86-87, "An Act Concerning Workers' Compensation Insurance Requirements For Contractors, On Public Works Projects and State Licenses".

TOWN OF BRANFORD

Bid Proposal Sheet

Bid Proposal for: _____

We hereby propose to furnish all labor and materials required for _____ in accordance with the instructions to bidders and specifications.

We have visited the site and examined all conditions affecting the work.

We hereby propose to furnish all labor and materials required by the contract documents as follows:

Total Proposed Price: _____

Date(s) of Delivery / Installation: _____

Company Name: _____

Company Address: _____

Signature of Authorized Representative

Date

Title

Bid Bond Required YES _____% NO

Bid Bond Enclosed (if required) YES NO

Performance Bond Required YES _____% NO

