

SHELBY TOWNSHIP

Rescue Pumper - Bid Specifications

Notice of Bid

Shelby Township is requesting bids for one (1) new Rescue Pumper fully equipped, as stated in items 1-12 below, and a pricing option for a second Rescue Pumper without the specified additional fire equipment as stated in the specification items 1-11. Pricing options are detailed at the end of this specification.

Each manufacturer will be allowed to submit (1) bid only. If an alternate bid is submitted, the alternate bid will be used in place of the main bid.

The following specifications will be strictly adhered to. Exceptions will be considered if they are deemed equal to or superior to the specifications, provided they are fully explained on a separate page titled "EXCEPTIONS TO SPECIFICATIONS." Exceptions will be listed by page and paragraph. Failure to adhere will result in immediate rejection of proposal.

It is required that each bidder produce both the chassis and complete apparatus. This will eliminate divided responsibility and service; the chassis and body must be manufactured by the same company.

There shall be two (2) trips to the Manufacturer's facility with travel, food, and lodging to accommodate two (2) Fire Department personnel. One (1) trip for pre-construction and one (1) inspection trip to be quoted in bid price.

Pumper must conform to the requirements of the current (at the time of bid) National Fire Protection Association Pamphlet #1901 for Motor Fire Apparatus unless otherwise specified in these specifications.

Bid responses shall be in the form of one (1) original hard copy and one DVD/CD. No faxed or emailed bids will be accepted. Bids will be received on a clearly marked and sealed envelope with the words "**Fire Department Rescue Pumper**" to the **Shelby Township Clerk's office on or before 2:00 pm., local time, Thursday May 23, 2019 at 52700 Van Dyke, Shelby Township, MI 48316**

Each bid shall include a complete list of warranties.

For questions please contact Jeff Chesnutt by written form (email) at jchesnutt@shelbytwp.org

The Charter Township of Shelby reserves the right to accept any bid, to reject any or all bids, or to waive irregularities in any bid that are in the best interest of the Township.

Individuals with disabilities requiring auxiliary aids or service, contact the Shelby Township Clerk's Office at (586) 731-5102 - TDD (586) 726-2731.

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BID SPECIFICATION

BID BOND

All bids shall be accompanied by a Surety Bond in the amount of ten (10%) per cent of the bid amount payable to the purchaser and shall be provided by the Manufacturer of the ambulance bid. Bonds submitted by the Agent or Dealer will not be accepted.

The purchase contract/agreement after being awarded to the successful bidder shall be returned to the purchaser within thirty (30) days of the award. Failure to do so will result in the contract/agreement being deemed "no response" and the awarded contractor shall have no interest remaining in the pursuit of fulfilling the contract/agreement. The purchaser reserves the right at that time to pursue the bid bond amount, required at the time of bid.

Bidders failing to provide a bid bond will be considered a "no bid". No exceptions.

PERFORMANCE BOND

A performance bond in the amount of 100% {one hundred percent } of the contract price will be required to be provided by the contractor as a security of faithful performance of the contract, specifically meeting all of the specifications outlined in this bid (bond is specific to material, process, and construction). The Performance Bond shall be secured by a Guaranty or a Surety Company listed in the latest issue of the U.S. Treasury Circular 570.

BIDDER'S INSTRUCTIONS

Bidders shall thoroughly examine all drawings, specifications, schedules, instructions and any other documents supplied as part of this invitation to bid and shall make all investigations necessary to thoroughly inform themselves regarding the content of the written specifications, drawings, and instructions supplied herein. No plea of ignorance by the bidder pertaining to the content of the specifications, drawings, schedule, or instructions will be considered by the purchaser on the deadline, if bid submission has occurred. Failure or omission on the part of the bidder to make the necessary examinations and investigations into the content of the specifications AND make all clarifications or explanations of exceptions and conditions that exist or that may exist hereafter shall NOT be accepted as a basis for making variations to the requirements of the purchaser or compensation to the bidder.

The Purchaser's clarifications shall be documented in writing and distributed to all qualified bidders at least two business days prior to the deadline for bid submission.

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The Shelby Township Fire Department is requiring each bidder provide (2) two pricing options:

Price Option 1 to include:

- a. One (1) custom rescue pumper with additional fire equipment included (i.e. this price option needs to include spec items 1 – 12 listed above).

Price Option 2 to include:

- a. One (1) custom rescue pumper with additional equipment included (i.e. this price option needs to include spec items 1 – 12 listed above).
- b. One (1) custom rescue pumper minus addition equipment (i.e. this price option needs to include spec items 1 – 11 listed above).

NOTE: Price Option 2 shall include two (2) custom rescue pumpers:

- One (1) with additional equipment
- One (1) minus the additional equipment

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1. Chassis:

The chassis will be manufactured by the factory of the bidder (**no exceptions**).

- a. The wheelbase is not to exceed 186 inches.
- b. The front axle will have a minimum capacity of 20,000 pounds.
- c. The rear axle will have a minimum capacity of 24,000 pounds and be rated for the speed of 68 miles per hour.
- d. The front and rear axles will be equipped with an ABS braking system which consists of 17 inch air disc brakes.
- e. The front and rear axles will have Alcoa Aluminum Wheels (both inner rear and outer rear). The aluminum wheels will match both the capacities of the tires and axle capacities.
- f. The front tires will be of highway tread and rated for axle capacity and speed.
- g. The rear tires will be of mud and snow tread rated for axle capacity and speed.
- h. There shall be a polished stainless steel 24" extended front bumper with storage well compartment between frame rails. Storage unit to be as large as possible with a 4" raised diamond plate hinged cover, with 1" raised lip around the storage well.
- j. All wiring will be point-to-point, with dorch connectors.
- k. All chassis airlines will use compression fittings.
- l. Frame rails will have a lifetime warranty against corrosion.

2. Powertrain

- a. The engine will be a Cummins L9 diesel power (**no exceptions**) with a clutch fan, 450HP and a full 5 year or 100,000 mile warranty to start at date of delivery.
- b. The engine will be equipped with a Jacobs (**no exceptions**) compression engine brake and will also include switches to control "On/Off" and "Low/High" which will be located within the driver's reach.
- c. The exhaust is to be routed to the passenger side of the apparatus and exit in front of the rear wheel (**no exceptions**).
- d. The alternator will be a 320 amp Prestolite/Leece Neville, model 4864J and will generate 210 amps at idle (or equivalent).
- e. The transmission will be an Allison EVS3000 automatic with Allison touch pad shifter.

3. Aluminum Cab Exterior

- a. The cab will be a full tilt 6 person cab designed specifically for the fire service and manufactured in the factory of the bidder (**no exceptions**).
- b. The cab will be of a one half 10 inch raised roof design.
- c. The cab will be insulated in a manner that keeps noise levels inside the cab below 90 decibels at 45 mph in all cab seat positions.
- e. An electric over hydraulic cab tilt system will be provided to raise the cab and provide full access to the engine and accessories.
- f. There shall be a manually operated hydraulic pump for tilting the cab in case the main pump should fail.
- g. The mirrors will be heated with remote control.
- h. The cab size will measure no less than 73 inches from center of front axle to rear wall of cab.
- i. Cab will have storage accessible from the outside of the vehicle, with a transverse compartment located behind the rear door, with a minimum height of 37". Compartment will have a hinged-type door, painted to match the body.

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4. Aluminum Cab Interior

- a. The driver's seat will be a high back air ride.
- b. The officer's seat will be an air ride seat with Secure All SCBA mounting bracket.
- c. The crew cab area will have four (4) standard seats with Secure All SCBA mounting bracket. Two (2) rear facing seats and two (2) forward facing flip up seats. Seats will be Bostrom model 550 with clean cab zip off seat covers.
- d. There shall be an AM/FM/weather band stereo system with four (4) speakers, and the controls will be mounted within reach of the driver.
- e. There shall be two (2) 12 volt, 15 amp auxiliary lighter socket type plugs provided in the cab near the officer's seat.
- f. There shall be adequate red and clear LED interior cab lighting.
- g. There shall be two (2) Streamlight Fire Box Rechargeable lanterns with vehicle mount 12 volt DC chargers (or equivalent).
- h. There shall be two (2) Streamlight SL-LP LED Rechargeable flashlights with DC chargers (or equivalent).
- i. There shall be a six (6) position Wireless Fire Com intercom. Both driver and officer headsets will have radio transmitting capabilities.
- j. There shall be two (2) Red Dot 12 volt fans mounted on the cab ceiling. One directed at the driver windshield, the other at the Officer Side windshield.
- k. The cab will be equipped with heat/defroster/air conditioning.
- l. There shall be eight (8) 110 volt receptacle plugs installed in cab to run off Kussmaul charging system. Four (4) will be placed behind the driver's seat and four (4) will be placed in the interior storage cabinet.
- m. Modems, computer mounts, and antennas will be provided by the department to be mounted by the manufacturer. Placement to be determined by Fire Department.
- n. There shall be one (1) Vanner VTL12-3000 Inverter.
- o. Inverter will be wired to power the eight (8) 110 volt receptacles, while the truck is running.
- p. There shall be a forward facing storage cabinet, mounted to the rear wall between the forward facing jump seats. The cabinet dimensions shall be approximately 48" wide x 18" deep x 53" tall. The cabinet shall come complete with a locking rollup door and two adjustable shelves. Strip lighting shall be provided in the cabinet.

5. Pump

There shall be a Hale Q Max XS 1500 GPM 6 inch suction single stage pump (**no exceptions**). The pump will be equipped with a Hale Smart Foam System (or equivalent).

- a. There shall be Standard Threads, NST.
- b. There shall be two (2) 6" intakes, one located on driver side and one located on officer side with Akron Revolution Ball Intake Valve on both. Each Akron Revolution Ball Intake Valve will have a 4" inlet Storz with cap.
- c. There shall be two (2) gated 2 ½ intakes, one located on driver side and one located on officer side. Both to have chrome plated/ brass plug with chain.
- d. There shall be three (3) gated 2 ½ discharges, two located on driver side and one located on officer side. All three (3) to have chrome plated/ brass 30 degree elbows with a 2 ½ X 1 ½ reducer with cap and chain.
- e. There shall be one (1) gated 3" discharge on officer side with 3" NST swivel female X 4" Storz adapter with cap and chain.
- f. A 3" riser will be installed above the pump in such a manner that a monitor can be mounted and used effectively. Piping will be rigidly braced. The riser will be gated and controlled from the pump operator's panel. There shall be an Akron Apollo Hi-Riser monitor with Akron TurboMaster Master Stream Nozzle installed.

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- g. There shall be two (2) 1 ½ speed lays, accessible from both sides of truck. Piping will be 2" with 1 ½ swivels. Speed lays will have lift out hose trays. Each shall have a lift-out tray, for a total of four (4) trays.
- h. There shall be one (1) 2 ½ cross lay, accessible from both sides of truck.
- i. There shall be one (1) electric rewind booster reel located on officer side top dunnage area. Bidder will supply 150' of best grade booster with Bar-Way couplings. Reel will also be equipped with an air blow out valve.
- j. The booster tank will be an UPF brand tank, with a capacity of no less than 500 U.S. gallons and will be constructed of polypropylene.
- k. The foam tank will have a capacity of no less than 20 U.S. gallons and will be constructed of polypropylene.
- l. The pump panels will be constructed of Stainless Steel. All gauges will be white faced with black lettering.
- m. There shall be one (1) 2 ½ rear discharge, located just below the hose bed.

6. Apparatus Body

The Rescue Style body will be constructed of aluminum (**no exceptions**) with full height and full depth compartments on both driver and officer side of vehicle. Body will be made of 3/16 thick aluminum.

- a. The compartment doors will be of traditional hinge type, except compartment A-1 which will be of roll-up style.
- b. The compartment dimensions are a preferred size, which may differ slightly per manufacturer (see compartment diagram).
 - 1) L-1 approximately 30.5" wide X 60" high X 27.25" deep
two (2) slide out trays
two (2) adjustable shelves
 - 2) L-2 approximately 61.5" wide X 30.5" high X 27.25" deep
two (2) slide out trays
one (1) adjustable shelf
 - 3) L-3 approximately 56.5" wide X 60" high X 27.25" deep
two (2) slide out trays
two (2) adjustable shelves
 - 4) R-1 approximately 30.5" wide X 60" high X 27.25" deep
two (2) slide out trays
two (2) adjustable shelves
 - 5) R-2 approximately 61.5" wide X 30.5" high X 27.25" deep
two (2) slide out trays
one (1) adjustable shelf
 - 6) R-3 approximately 56.5" wide X 60" high X 27.25" deep
two (2) slide out trays
two (2) adjustable shelves
 - 7) A-1 approximately 40" wide X 47" high X 30.5" deep
two (2) slide out trays
one (1) adjustable shelf
this compartment to have roll-up door
- c. The ladder rack shall hold the following equipment supplied by bidder:
 - 1) One (1) 24' aluminum extension ladder
 - 2) One (1) 14' aluminum roof ladder
 - 3) One (1) 10' aluminum folding attic ladder
 - 4) One (1) 8' Akron Altra-Lite pike pole
 - 5) One (1) 12' Akron Altra-Lite pike pole

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- d. There shall be LED strip lighting in all compartments.
- e. There shall be turtle tile supplied in all compartments for shelves, tray and floors.
- f. There shall be four (4) air bottle storage units. Two (2) located on driver side rear fender (if possible) and two (2) located on officer side rear fender (if possible).

7. Hose Bed

- a. There shall be five (5) hose bed dividers supplied.
- b. There shall be one (1) 2 piece hose bed cover, constructed of aluminum. Hose bed cover will be hinged on both sides with strut assisted lift.
- c. Hose bed will be lit with LED strip lighting on the inside of the aluminum hose bed cover.

8. Lighting

All lighting will be of LED type where possible.

- a. There shall be one (1) 72" LED light bar, with 12 LED modules (10 red and 2 clear LED heads).
- b. There shall be two (2) mini LED light bars, red, mounted on rear stanchions.
- c. There shall be eight (8) Whelen 600 series amber LED lights (or equivalent); placement of lights to be determined by Fire Department and NFPA Standards.
- d. There shall be sixteen (16) Whelen 600 series red LED lights (or equivalent); placement of lights to be determined by Fire Department and NFPA Standards.
- e. There shall be a 12 volt LED Brow Light mounted on front of cab, centered above windshield.
- f. There shall be adequate ground and step lighting to meet or exceed NFPA requirements. Lighting will be of LED type where possible.
- g. There shall be alternating LED headlights.
- h. There shall be six (6) Whelen 900 series LED scene lights. Lights are to be mounted on side of apparatus. Placement to be determined by Fire Department.
- i. Two (2) mini light bars will be placed on the roof of the cab, above the rear doors (one on each side).

9. Siren / Horns

- a. There shall be one (1) 200 amp electronic siren installed at cab instrument panel, complete with noise canceling microphone.
- b. Siren will be controlled by steering wheel horn button, switch on officer side cab floor and siren control panel. Switch on instrument panel to choose between steering wheel horn and electric siren.
- c. There shall be a Federal Q2B-NN Siren mount on front of apparatus.
- d. There shall be a foot switch supplied on driver side and officer side of cab floor to control Federal Q. Siren brake will be installed within driver's reach.
- e. There shall be two (2) Grover #2040 air horn installed in front of truck controlled by lanyard.
- f. There shall be one (1) push button switch on driver side pump panel to control air horns.
- g. There shall be a backup alarm installed to activate whenever the reverse gear is selected.

10. Miscellaneous

- a. There shall be a Kussmaul Auto Charger 1200 battery system charger installed along with a Kussmaul super electric auto eject with weather proof cover.
- b. There shall be a 120 volt auto air compressor installed to maintain air within the brake system while vehicle is parked. Air compressor is required to have a timer for auto-shutoff to prevent overrunning.

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- c. There shall be one (1) set of battery terminals located outside the battery box with colored plastic covers and tagged appropriately.
- d. There shall be two (2) black tow hooks installed on the front of vehicle attached directly to chassis frame.
- e. There shall be a 2" hitch installed on the rear of vehicle attached directly to chassis frame.
- f. There shall be a Motorola 800MHZ radio installed in cab. Fire Department to supply and specify location.
- g. There shall be one (1) radio antenna mounted on cab roof, with coax cable run to rear of 800MHZ radio. Fire Department to supply and specify location.
- h. There shall be one (1) 15 pound CO2 extinguisher with mounting hardware.
- i. There shall be one (1) 20 pound ABC Dry Chemical extinguisher with mounting hardware.
- j. There shall be one (1) water can extinguisher with mounting hardware.
- k. There shall be a 10' Fresno attic ladder mounted in hose bed on driver side wall.

11. Paint and Lettering

- a. Truck to be white over red – to match current fleet.
- b. Frame shall be Ziebarted.
- c. Vinyl lettering and striping to match current fleet, photo to be provided.

12. Additional Fire Equipment

a. Nozzles, Adaptors and Appliances - ELKHART BRASS

1. RAM XD Model 8296 Ground Monitor

Part # 08296201

Quantity – 1

2. MINI STREAM SHAPER Model 282-A

Part # 03476201

Quantity – 1

3. STACKED TIP FOR RAM XD Model ST-197A

Part # 00639001

Quantity – 1

4. 1.5" XD SHUTOFF WITH INTEGRAL SMOOTHBORE 7/8"

Part # 0033XD03

Quantity – 4

5. 2.5' XD SHUTOFF

Part # 0069XD01

Quantity – 2

6. CHIEF XD TIP 1.5"/RIGID BASE 150@50

Part # 04XD0101

Quantity – 4

7. 2.5" SMOOTHBORE TIP 1-3/16"

Part # 66767007

Quantity – 2

8. 2.5" FEMALE X 1.5" MALE REDUCER Model 102A

Part # 01020007

Quantity – 1

9. 2.5" – 1.5" GATED WYE with SHORT ELK-O-LITE HANDLES Model B-100-A

Part # Model B-100-A

Quantity – 2

b. Flashlights - STREAMLIGHT

1. STREAMLIGHT FIRE VULCAN LED VEHICLE MOUNT SYSTEM 12V DC-ORANGE

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UPC# 080926-44451-5

Part# 44451

Quantity – 2

2. AKRON REVEL SCOUT SCENE LIGHTS 14,000 LUMENS with 120VOLT CHARGER

Quantity – 2

c. Tools and Saw Blades - FIRE HOOKS UNLIMITED

1. DYNAMIC DUO MOD

(A Lock Slot 8 Flat Head Axe and Maxximus Mod Halligan Bar)

Model # DYN-DUO-MX-MOD

Quantity – 2 – to be mounted by manufacturer, placement determined by department

2. 24" PRO BAR HALLIGAN

Quantity – 1 – to be mounted by manufacturer, placement determined by department

3. FORCE AXE 8LB

(8lb Pick Head Axe with fiberglass handle)

Model # FAP-8#

Quantity – 1 – to be mounted by manufacturer, placement determined by department

4. SLEDGE HAMMER

(10LB Sledge Hammer with yellow fiberglass handle)

Model # SHF-10lbs Fiberglass

Quantity – 1 – to be mounted by manufacturer, placement determined by department

5. NY ROOF HOOK 4'

(Steel New York Roof Hook 4')

Model # RH-4'

Quantity – 1 – to be mounted by manufacturer, placement determined by department

6. NY ROOF HOOK 6'

(Steel New York Roof Hook 6')

Model # RH-6'

Quantity – 1 – to be mounted by manufacturer, placement determined by department

7. NY ROOF HOOK 8'

(Steel New York Roof Hook 8')

Model # RH-8'

Quantity – 1 – to be mounted by manufacturer, placement determined by department

8. S&D REX LOCK PULLER

Quantity – 1

9. HUSKY FANG DIAMOND SAW BLADE 14"

Model # FANG-14

Quantity – 1

d. Extrication Equipment

1. Hurst SP555E2 spreader

2. Hurst S799E2 cutter

3. Hurst R421E2 ram

4. AC/DC adapter plug part number 272085412

5. Ajax 911-RK air chisel kit

6. LRS-C QUICK KICK ram support

7. Two 48" first responder hi-lift jacks

8. J-hook and chain sets (2-4)

9. Ridgid cordless sawzall, drill, and impact kit - \$500.00 allowance, models to be determined later

10. Rescue 42 tele-crib engine kit

e. Hose

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1. 1.5" - 2 pcs(100ft) Ponn Supreme FS15X50R15NZ ("SHELBY TWP" Stenciling) {Red}
 2. 1.5" - 4 pcs(200ft) Ponn Supreme FS15X50Y15NZ ("SHELBY TWP" Stenciling) {Yellow}
 3. 1.5" - 6 pcs(200ft) Ponn Supreme FS15X50W15NZ ("SHELBY TWP" Stenciling) {White}
 4. 2.5" - 16 pcs(800ft) Ponn Supreme FS25X50W25NZ ("SHELBY TWP" Stenciling) {White}
 5. 2.5" - 4 pcs(200ft) Ponn Supreme FS25X50Y25NZ ("SHELBY TWP" Stenciling) {Yellow}
 6. 4" - 4 pcs 100ft each(400ft) North American Poly Flow 600 Double Jacket 4" STORZ Yellow Ultra Shield Coating ("SHELBY TWP" Stenciling)
 7. 4" - 2 pcs 50ft each(100ft) North American Poly Flow 600 Double Jacket 4" STORZ Yellow Ultra Shield Coating ("SHELBY TWP" Stenciling)
- f. Saws
1. Stihl MS 461 R Rescue Chain Saw, with depth limiting kit
 2. Stihl TS 420 CUT KWIK Cut-Off Saw (K-12)
- g. SCBA
1. \$25,000 SCBA/Bottle Allowance – Make & Model to be determined later
- h. Thermal Imaging
1. Bullard T3X with thermal throttle and 12V charging base
- i. Positive Pressure Fan
1. Tempist VS-1 – with charger and spare battery (for a total of two (2) batteries)
- j. Monitoring Equipment
1. RAE Systems QRAE3 4 Gas Monitor
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