

TOWN OF SWANSBORO

REQUEST FOR PROPOSALS

FIRE APPARATUS – ENGINE COMPANY



REQUESTED BY:  
THE TOWN OF SWANSBORO FIRE DEPARTMENT  
609 West Corbett Avenue  
Swansboro, NC 28584

Date of Issue: November 17, 2023

Proposals Due: January 15, 2024

## GENERAL INFORMATION

### INTRODUCTION

The Town of Swansboro Fire Department seeks a qualified Apparatus Vendor and/or Manufacturer to provide the design and quote for a ***Custom Cab Engine Company*** to replace our 2001 International commercial cab. The design should meet the needs and requirements of all applicable National Fire Protection Association (NFPA) standards related to apparatus design, safety, and functionality. Furthermore, the proposal and design of this apparatus should meet the needs and requirements of the characteristics identified throughout our Fire District and Community.

THIS PROPOSAL AND BID SHALL NOT WARRANT THE UNDERSTANDING OF THE PURCHASE OR BE CONSTRUED AS A PURCHASING AGREEMENT OR ORDER. THE SELECTED PROPOSAL AND BID BEST MEETING THE REQUIREMENTS HEREIN THIS DOCUMENT WILL BE PRESENTED FOR ULTIMATE AND FINAL APPROVAL BY THE TOWN OF SWANSBORO BOARD OF COMMISSIONERS. ALL PURCHASING POLICIES FOR THE TOWN OF SWANSBORO STILL APPLY. THE TOWN OF SWANSBORO RESERVES THE RIGHT TO REJECT ANY AND ALL BIDS.

### IMPORTANT DATES AND TIMES

Proposals Due Date: January 15, 2024

Proposal Due Time: 5 p.m. EST

Proposal Validity: Until July 1, 2024 ( or provide potential prices of proposed increases)

### PROPOSAL SUBMITTAL LOCATIONS

Manufacturers shall submit a sealed package containing four (4) hard copies of specifications, including hose bed schematics and special request documents, along with four (4) hard copies of any drawings or renderings, one (1) electronic or digital copy of all related material on a USB flash drive, and at least one (1) pricing sheet of the estimated apparatus cost. The proposals should be submitted to the following address by the Due Date and Time listed above.

Town of Swansboro

Attn: Fire Chief

601 West Corbett Avenue

Swansboro, North Carolina 28584

Questions should be directed to Jacob Randall, Fire Chief, by email at [jrandall@ci.swansboro.nc.us](mailto:jrandall@ci.swansboro.nc.us).

## **SELECTION CRITERIA**

All proposals will be opened and reviewed on January 16, 2024, at the Town of Swansboro Fire Department. The proposals will be reviewed by the apparatus committee working group and evaluated on the criteria described in the Evaluation Criteria subsection below.

The Town of Swansboro will select the Manufacturer and/or Vendor that best meets the requirements, specifications, and needs of the organization and Town. Once the working group's selection has been made, the approval to move forward and any necessary authority needed from the Local Governing Body, the Town of Swansboro Board of Commissioners, will be sought in the weeks following.

## **REVISIONS OF WORK TO PROPOSALS**

The working group will review the proposals fairly and equitably following the submittal deadline. No revisions will be accepted to the proposal after they are received. Furthermore, the modifications or any adjustments that may occur before, during, or after any pre-construction visits to the selected and/or awarded manufacturer shall not be construed as a Revision to the proposal.

## **TERMS AND CONDITIONS**

The Town of Swansboro reserves the right to award any contracts based on the conditions of this Bid or Proposal, portion thereof, or in whole or in part, which serves in the Best Interest of the Town.

The Town of Swansboro reserves the right to request clarification or supplemental information or material it feels necessary to make a qualified judgment of the vendor, manufacturer, or firm's ability to perform the work.

The Town of Swansboro reserves the right to amend the RFP schedule or issue amendments to the RFP at any time, to modify or incorporate additional steps in the evaluation process to have a thorough and comprehensive body of information to make a selection.

The selected proposal, manufacturer, or bid shall not be considered "awarded" until the time said comes that a letter of intent, purchase order, or local governing body resolution is presented to the representative of the vendor, salesperson, manufacturer, or firm.

The selected proposal bid, vendor or manufacturer, will be brought in to discuss financing terms, negating prices, contract terms, and other necessary information required in executing any form of contract or binding agreement for purchases.

The Town of Swansboro reserves the right to cancel, reissue the RFP, to reject any or all proposals, to waive any irregularities or informalities in the selection process, and to accept or reject any item or combination of items.

The RFP does not obligate the Town of Swansboro to accept or contract for any expressed or implied services.

The Town will not reimburse the firm, vendor, or manufacturer for any of the cost involved in the preparation and submission of responses to this RFP, or in the preparation of any subsequent proposals or presentations.

### **EVALUATION CRITERIA**

The evaluation criteria will determine the best overall value to the Town. The criteria for the evaluation may include, but not be limited to.

<b><u>Criteria</u></b>	<b><u>Possible Points</u></b>
<b>Truck Specifications</b> <i>(&lt;5 Modifications or Alterations to the provided parameters) 50 of 50</i> <i>(&gt;5 but &lt;10) 40 of 50</i> <i>(&gt;10 but &lt;15) 30 of 50</i> <i>(&gt;15 but &lt;20) 20 of 50</i> <i>(&gt;20 but &lt;25) 10 of 50</i> <i>(&gt;25 Modifications Required) 0 of 50</i>	<b>50 Points</b>
<b>Service Agreements/Contracts/Locations</b> <i>(&lt; 50 Miles) 25 of 25</i> <i>(&gt;50 but &lt;75 Miles) 15 of 25</i> <i>(&gt;75 but &lt; 100 Miles) 05 of 25</i> <i>(&gt;100 Miles) 0 of 25</i>	<b>25 Points</b>
<b>Warranty</b> <i>(Length of Time and Items Covered)</i>	<b>25 Points</b>
<b>Total Points</b>	<b>100 Points</b>

## **TOWN OF SWANSBORO FIRE DEPARTMENT**

### **CUSTOM CAB ENGINE**

#### **Special Requirements/Documents**

The Manufacturer/Vendor shall include a document identifying items deemed a special request aside from standard installation per the product.

The Manufacturer/vendor shall include a document identifying any items in the specifications listed that they cannot provide, whether the generic terminology or an item of like capability, design, and functionality.

The manufacturer/vendor shall include a list of approved warranty service representatives or an authorized statement on organizational letterhead approving the ability to process, provide, or have warranty service, replacement, or repair at a local Certified Representative to be specified under the final contract.

The bidder shall provide proof of product liability and facility insurance equal to or exceeding \$30,000,000.00.

#### **Clauses**

The Manufacturer/Vendor shall include a specification or design clauses that would delay, increase, decrease, or alter the proposal or pricing outside of the normal pre-build configuration and design solidification.

#### **Delivery**

The delivery of the apparatus to the Town of Swansboro Fire Department shall be the responsibility of the manufacturer or vendor.

Should the apparatus be selected for any conferences or trade shows, the apparatus delivery from the manufacturer or vendor shall not accrue mileage greater than or equal to 10% of overall miles accompanying the standard mileage upon delivery.

#### **Inspection Trips**

The bidder shall provide two (2) factory inspection trips to the apparatus manufacturer's facility.

Transportation, meals, lodging, and other expenses incurred shall be the bidder's responsibility during the times of inspections.

The Inspection trip shall be for five (5) Fire Department representatives per trip.

The Inspection trips shall be during the Pre-Construction and Final Completion phases of the project.

Air transportation shall be provided for distances greater than three hundred (300) miles.

### **Standards**

The chassis shall be certified by the apparatus Manufacturer to all applicable Federal Motor Vehicle Safety Standards (FMVSS).

Any designed specifications, equipment, or component that requires testing and certification shall be completed, allowed for visualization at the final inspection (where applicable), and have all appropriate plates permanently affixed.

The design specifications shall all meet the minimum standards of NFPA 1901.

### **Records**

The awarded bidder shall maintain a file for this apparatus from the execution or notification of the award until the apparatus is successfully delivered. The file, or copy of all documents, shall be provided to the Town of Swansboro Fire Department.

### **Design**

The apparatus shall be designed and constructed with a factor of safety, which is equal to or greater than what is considered standard and acceptable for the type or class of equipment in the firefighting profession or service.

All components and parts shall be strong enough to withstand general service under the intended weight or the weight of a full load.

The apparatus shall ensure that the various parts are readily accessible for lubrication, inspection, adjustment, or repair.

### **Certification and Warranty**

The finished paint shall be certified by the apparatus manufacturer as conforming to all applicable Commercial Vehicle Paint standards effective at the execution date of the contract.

The manufacturer(s) of components, the apparatus, or the bidding vendor shall provide warranties with any specified lengths for the following areas.

General Warranty	Poly Tank
Electrical	Waterous Pump
Frame Assembly – Structural	Foam/System Components
Frame Rail – Corrosion	Valves
Body Structure	Steering & Braking

Paint and Finish

Lettering/Decaling

Plumbing and Piping

Axles & Suspension

Motor & Transmission

Cooling System

### **Design Specifications**

#### **Overall Dimensions**

Height – No Greater than 112.5”

Length – No Greater than 389”

Wheelbase – No Greater than 192”

Width – No Greater than 100”

#### **Paint, Decal, & Trim**

The exterior color of the apparatus shall be solid Red, with all accessories, trims, rails, steps, or other components used, and the exterior shall consist of black paint or, in highly utilized areas, black rhino lining (or equivalent).

The Rims shall be black with black lug nuts or nut covers.

Any diamond plate or other tread metal area shall be covered with rhino lining (or equivalent).

A singular black decal, a minimum of 6”, shall encompass the entire base of the truck at a height no greater than 1” above the base of the jersey barrier door.

A decal with an SFD scramble shall be designed and placed on the Front Driver and Officer Doors.

A decal with 17 and the wording Engine overlaid, shall be placed on the rear passenger doors.

The rear striping on the apparatus shall be red and black.

#### **CAB**

The cab shall be a flattened roof with radius edges for aesthetic purposes.

The cab and roof shall be constructed using the same material for the main structure.

The overall width shall be of a size greater than 100”.

The overall width inside the crew compartment shall be no less than 92”.

Forward door opening shall be no greater than 73” high.

The rear door opening shall be no greater than 73 -3/4” high.

The interior cab flooring shall be rhino-lined (or equivalent).

The cab shall consist of four (4) forward-facing crew seats {one (1) driver, one (1) officer, two (2) firefighter}.

The two (2) forward facing seats shall be no less than 16” apart.

All seats, not including the driver, shall be SCBA seats with a SmartDock Gen II system

Frontal airbags shall be included in the driver’s wheel.

Side airbags shall be provided on seats.

Crew area shall consist of drink holders within reasonable reach of the passenger.

A flat working area shall be included in the front of the Officer.

A ceiling mounted cooling system shall be installed in the cab.

The cab shall consist of two medical compartments behind the Driver and Officer Seat, with access doors on the exterior.

The driver-side compartment shall be sealed on the interior for the driver’s turnout gear.

The officer-side compartment shall have an exterior door with shelving and interior access through a cargo net.

The cab's rear shall have shelving between the medical compartments identified above.

Heavy-duty, cast paddle latches shall be provided to the interior and exterior of each cab door. The color of the exterior shall be black.

The windows for the crew compartment shall have 20% tint integrated into the glass.

A two-piece, symmetrical safety glass shall be provided for the windshield.

Windshield wipers shall be equipped with a parking brake interlock.

Interior grab rails shall be provided for the Driver and Officer on the A-Pillar and door panel.

Interior grab rails shall be provided for the rear passenger on the C-pillar and door panel.

The grille of the cab shall be stainless steel and black.

A black Roto-Ray, shall be affix centered and above the grill.

The back of the cab shall have mounted 6’ NY hooks with holders.

The back of the cab overlay shall be back rhino-lined (or equivalent).

A bus/truck style blind spot mirror shall be placed on the Officer Side of the cab.

### **Handrails and Steps (Exterior)**

The safety handrails and exterior steps shall be black with integrated red lighting.



Handrails shall be black, with integrated red lighting, interlocked to transition solid with the parking brake but flash when warning lights are activated.

### **Front Bumper**

The front bumper shall be at least 12” high, 100” wide, constructed of steel and painted, with 45-degree welded corners.

The color of the bumper shall match the cab and body base.

Front bumper shall include a Center well, with at least four (4) drain holes.

The front bumper shall be designed to hold no less than 150’ of 1 ¾” hose.

The straps for securing the hose shall be lever or seat belt style straps.

The front bumper discharge shall be exteriorly mounted on the top of the bumper, black in color.

Tow hooks shall be fastened to the bumper and black.

The top of the bumper shall be rhino-line (or equivalent) in black.

The front bumper shall have a 5” storz intake, mounted within the bumper.

The Federal Q shall be mounted inside the bumper with a polished black cover.

Train horns shall be affixed below the bumper.

### **Chassis/Steering/Braking**

The front axle and suspension shall be rated at no less than 22,000 lbs.

The rear axle shall be a single-axle with a rated capacity of no less than 27,000 lbs.

The design shall consist of front and rear disc brakes, no less than 17”.

The design shall include an auxiliary “Jacob’s Brake” or equivalent, with a toggle switch.

The design shall include an air brake system.

Steering column shall tilt and telescope.

18” minimum steering wheel size.

Rims shall be black finished with black covers.

### **Auxiliary Items**

There shall be no less than three (3) air reservoirs installed, painted black.

Fuel Tank Capacity minimum of 50 gallons.

Def Tank Capacity minimum 5 gallons

Tailpipe adapter for a magnetic Plymovent System

BlueSea Auto-eject Cover Red

3000- Watt inverter

Power Points in EMS compartments in Cab.

Fuse block behind Officer Seat.

Fuse Block in rear crew area.

Singular Mud Flap with Custom Design

### **Engine**

The Engine shall be a diesel, turbo-charged, meeting or exceeding the following requirements:

Max Horsepower 500 hp @ 1700 RPM

Governed Speed 2000 RPM

Peak Torque 1695 lb. ft. @ 1000 RPM

Six (6) cylinders

Bore Stroke 5.2 x 5.67 in.

Compression Ratio 16:8:1

Governor Limiting Speed

### **Transmission**

The Transmission shall be designed to meet or exceed the following standards:

Max. Gross Input Power 600 HP

Max. Gross Input Torque 1850 lb. ft.

Input Speed (Range) 1700 – 2300 RPM

Direct Gear (Pumping) 4<sup>th</sup> (lock-up)

Six (6) Speed automatic transmission

First: 3.51:1

Second: 1.91:1

Third: 1.43:1

Fourth: 1.00:1

Fifth: 0.74:1

Sixth: 0.64:1

Reserve – 4.80:1

TouchPad Shifter

### **Lighting Controls**

All scene lights controllable in the Cab (Officer & Driver Side) and the Pump Panel.

### **Lighting Package**

Light Bars (Roof - front) – Whelan F4N1VLED, 81” cab light on front (Clear lenses, Red and White lights)

Light Bars (Roof -side) – Whelan F4NMINI (Clear Lenses, Red and White LED)

Side of Apparatus (Hard Tube Upper) – Whelan M9 LED

Side of Apparatus (Lower) – Whelan M6 LED

Rear Lights (Corner) – Whelan L31 Beacon – Clear Lenses with Red LEDs.

Roto Ray (Black Frame) – Red, White lights

Ground Lights – LED 20” Red in color, under cab doors, and entrance steps.

High Viz Headlights (Black Bezels); interlock with parking brake to shut off.

Front Brow- HiViz FT-B-80-ML-B.

Side Brow (Driver Side and Passenger Side of upper hose bed body); HiViz 72” FT-B-72-B

Rear Spot/Scene : HiViz FT-WL-X-9-FT-B-SH2 Rear Stanchions

Rear Scene Light: HiViz MB-C-FR-B with camera.

Tank Fill Lights on Driver and Officer Side of Cab

## **PUMP/TANK/HOSE BED/PUMP PANEL**

### **Water Capacity**

Poly Tank, No less than 750 gallons with 1000 gallons preferred.

### **Foam**

Foam Capacity of 25 gallons minimum Class A

### **Pump**

*Waterous*, 1500 gpm Minimum with 2000 gpm preferred

### **Pump Panel Discharges & Intakes**

Auxiliary Intake, Driver Side, and Officer Side.

Two 6” Inlets on the Driver and Officer Side.

Driver Side Discharge 1 (2.5”)

Driver Side Discharge 2 (2.5”)

Officer Side Discharge 1 (2.5”)

Officer Side Discharge 2 (2.5”)

Officer Side Discharge 3 (3” to 5” Storz)

### **Rear Discharges**

Driver Side Rear Discharge 1 (2.5”) – Rear of Truck (Upper under Hose Load 1)

Driver Side Rear Discharge 2 (2.5”) – Rear of Truck (Lower under Hose Load 5)

Officer Side Rear Discharge 1 (2.5”) – Rear of Truck (Lower Middle Under Hose Load 7)

Officer Side Rear Discharge 2 (2.5”) – Rear of Truck (Lower Outside Under Hose Load 7)

Officer Side Rear Discharge 3 (2.5”) – Rear of Truck (Upper Under Hose Load 4)

### **Pump Panel Controls**

Manual Pressure Relief Valve

Manual Throttle Control with “throttle cable” is preferred, but an electronic interface is acceptable.

All controls shall be push/pull, except the Deck Gun (Turn Wheel), and Large-Diameter Discharge (Turn Wheel).

### **Pump Panel Storage**

Hose Storage at base of Pump Panel on Driver and Officer Side

Minimum Storage of 50’ 3” or 50’ 5”

Water Can storage at front near cab on flatten pump panel surface

### **Hose Bed**

Low Hose bed

Windshield, no cover

Optimal Height from the Bumper to the Bottom of the Supply Line Area 38”

Optimal Height from the Bumper to the Base of Rear Stanchion lights 82”

Optimal Max Height of Ground to Top of Hose Bed 111”

### **Capacity Upper Hose Section**

Hose Load 1 (Driver Side Upper) – 300’ 2.5”

Hose Load 2 (Driver Side Upper Middle) – 1000’ 5”

Hose Load 3 (Officer Side Upper Middle) – 500’ 3”

Hose Load 4 (Officer Side Upper) – 400’ 2”

**Capacity Lower Hose Section (With Poly Trays)**

Hose Load 5 (Driver Side Lower) – 200’ 1.75”

Hose Load 6 (Middle Lower) - 300’ 2”

Hose Load 7 (Officer Side Lower) – 200’ 1.75”

**SIDE & BODY**

Short Engine Compartments on both Driver and Officer Side

Three (3) Hard Suction Tubs Mounted on the Driver Side

Low Level Strainer Mounted on the Lowest Section

Two High-Rise Pack Compartment/Holders under the Hard Suction Tubs

Officer Side Exterior Ladders with an optimal height of the Lowest Ladder Beam from the Bumper no more than 40”

Pike Poles and Attic Ladders are mounted in enclosed compartment behind side ladders.