



## Bid Specification Type I Ambulance

Request for Proposal: Brookline, NH Ambulance Replacement

Date Due: 21 November 2023 - 4:00 PM

Sealed Bid Opening: 27 November 2023 7:00 PM Brookline Town Hall

Mail to: Brookline Town Offices c/o Selectboard

1 Main Street

PO Box 360

Brookline, NH 03033

Attn: AMBULANCE BID

For more information:

Jeffrey Stewart

Ambulance Chief

3 Post Office Drive

Brookline, NH 03033

603-672-6216

[jstewart@brooklinenh.us](mailto:jstewart@brooklinenh.us)



**TOWN OF  
BROOKLINE, NEW HAMPSHIRE  
AMBULANCE SERVICE  
3 POST OFFICE DRIVE  
BROOKLINE, NH 03033**



**Request for Proposal**

The Town of Brookline Ambulance Service invites interested vendors to submit proposals for a Type I Ambulance that meets or exceeds the following specifications.

The Brookline Ambulance Service has established a list of minimum requirements for this Type I Ambulance. Considerable latitude is offered to bidders while still complying with the minimum specifications contained in this document. We prefer that this ambulance be configured as similar as possible to our 2019 Type I ambulance including color schemes. It is understood that there may be some specifications which conflict with certain layouts or other specifications in the document and we welcome feedback from bidders when those conflicts may exist. Some level of customization can be expected by the successful vendor during the pre-build phase of the project to tailor the vehicle to meet the needs of the Brookline Ambulance Service. The Town of Brookline may be interested in vehicles currently on the line that meet or exceed our specifications. Any questions or to set up a viewing of the 2019 ambulance should be directed to the Ambulance Chief. The Town of Brookline reserves the right to reject any proposals not conforming to the specification or deemed not to be in the best interest of the town. The Ambulance Chief and Selectboard will review the process and will have the final determination in awarding the bid. The quality and serviceability of the ambulance, as well as service location, parts availability and the vendor's experience will be considered for the final selection.

Thank you.

Jeffrey Stewart, NRP, CAI  
Chief

*hone 603-672-6216 Fax 603-673-2248 EMERGENCY DIAL 911*

*<http://www.brookline.nh.us>*

# Minimum Requirements to Bid

## **Proposal**

Page 1 of your proposal shall be a summary sheet that indicates the Manufacturer's and/or Dealer's names, address and contact information. It shall also include the total cost of delivered unit, trade allowance, and final price after trade allowance. An example of this page is enclosed.

## **Terms of Payment**

The Town of Brookline will pay for the completed ambulance upon delivery and final acceptance.

## **Prepayment Discount**

Indicate appropriate discounts possible with prepayment of chassis and/or entire ambulance.

## **Insurance Certificate**

A manufacturer's certificate of product liability and facility insurance equal to or exceeding \$10,000,000.00 must be provided with the bid. The certificate must be in its original form (no photocopies or fax copies) and shall name the Town of Brookline as certificate holder.

## **Warranty & Service Requirements**

To ensure proper service, no proposal will be accepted unless the manufacturer/dealer owns or offers service facilities within 150 road miles of the Town of Brookline. The facility shall have complete parts and service available, provide mobile service and an equivalent loaner ambulance should it be necessary for long term repairs/service. The service facility shall be staffed by full-time personnel who are factory trained in the operations and repair of emergency vehicles, with full authorization of the manufacturer.

## **Drawings**

All proposals shall include detailed CAD blueprints of the unit they propose; showing the left, right, front, and rear exterior, as well as the left, right, front, and top views of the interior. Bids not containing these Blueprints will not be accepted. THESE BLUEPRINTS MUST BE PROVIDED BY THE AMBULANCE MANUFACTURER TO ENSURE FULL COMPLIANCE UNDERSTANDING OF THE COMPLEXITY OF THIS VEHICLE.

## **Color**

An oxford white base is standard for the Brookline Ambulance Service and is required on the apparatus cab and body. All lettering shall be completed to the department's standards, including the retroreflective chevron at rear of unit. Striping and lettering will be discussed with the dealer before delivery. Examples of the striping/lettering pattern can be seen on the Town of Brookline Ambulance Service website or by scheduling a site visit to the Brookline Safety Complex, 3 Post Office Drive. Brookline, NH 03033

## **Additional options**

The dealer/manufacturer shall list all additional options and price separately. If proposing a demo ambulance or ambulance currently in production, the dealer/manufacturer must list all additional options and/or items that do not meet the minimum specifications.

### **Mounting allowance**

A \$3,500 mounting allowance will be provided by the dealer, this allowance will cover mounting and/or brackets for department equipment installed on the ambulance, and/or contingency for as-built modifications. Any balance of the mounting allowance after delivery will be applied to future service of the ambulance.

### **Travel Allowance**

Vendor shall provide travel allowance for two (2) personnel for site visits to factory at 50% and 90% completion benchmarks to ensure proper configuration and compliance with specifications.

### **Trade in Allowance**

The Town of Brookline is seeking to trade-in our 2009 AEV, Type I Ambulance - 154" x 95" x 72" body, on a Ford F-450 4 x 4 DRW Reg Cab, 165: WB, XLT 6.4 L Power Stroke V-8 Turbo Diesel engine. Unit is currently in service with 91,000 miles and can be seen by appointment at the Brookline Safety Complex, 3 Post Office Drive, Brookline, NH 03033. The value of trade must be shown on the summary sheet submitted with your proposal.

**Brookline, NH Ambulance Replacement**  
**Bid Specification**  
**Type I Ambulance**

Manufacturers Name/Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Email address (if applicable) \_\_\_\_\_

Telephone # \_\_\_\_\_

Dealers Name/Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Email address (if applicable) \_\_\_\_\_

Telephone # \_\_\_\_\_

Total delivered cost of unit      \$ \_\_\_\_\_

Trade in allowance:                      -\$ \_\_\_\_\_

Final cost of unit                          \$ \_\_\_\_\_

This summary sheet must be included as page one of your proposal.

# **Brookline Ambulance Service**

## **Type I Ambulance**

### **Standards and Certifications:**

Compliant with NFPA 1917

Compliant with most recent version of KKK-A-1822 (NFPA 1917 shall take precedence)

### **Cab & Chassis:**

2024 Ford F-450 Super Duty 4x4 DRW Regular Cab XLT trim

Wheelbase 169"

**NOTE:** Open to 2024 Ford F-550 dependent on price, availability, and overall dimensions.

### **Engine:**

6.7L Power Stroke V-8 Turbo Diesel engine

DEF tank heater

### **Transmission:**

Ford Torq Shift 6-Speed Select Shift Automatic Transmission

Auxiliary Transmission Oil Cooler

### **Brakes:**

Power Four-wheel disc

Four-wheel anti-lock brake system (ABS)

### **Suspension:**

Front Axle minimum 7,500 lbs. Solid Twin-Coil Monobeam

Rear Axle minimum 12,880 lbs.

Liquid-Ride Suspension

Kneeling feature activated by trailing rear access door, able to activate if ignition key is off

Stabilizer bar, front and rear

### **Steering:**

Power

### **Cab Interior/Exterior Appearance:**

Interior cab color, Gray

Tilt steering wheel with speed control

Power adjustable brake and accelerator pedals

Air Conditioning

Power door locks and windows

Cab floor mats, all weather rubber

Dual cloth captain's chairs with arm rests

Color keyed carpeting & headliner (Grey)

Color keyed cloth sun visor

Gauges: Voltmeter, oil pressure, temperature, trip odometer, tachometer, hour-meter (may be aftermarket)  
AM/FM/MP3 Radio w/Clock, with volume control switch to control rear speakers mounted near action area  
Ford SYNC installed

Message center in dash, minimum 8" LCD, to include back-up camera and on-board navigation system

Minimum of four (4) USB plugs for iPad or iPhone chargers mounted in cab near center console

Minimum of two (2) additional 12V DC cigarette plugs in cab (above and beyond OEM equipment)

Center console to include storage for minimum of three (3) boxes of gloves, map box and cup holders, and 2 portable radio holders

12V handheld spotlight, hard-wired with mounting bracket front

Chrome front bumper and grille

Dual siren speakers, through-bumper mounting

Daytime running lights

Fog lamps, OEM preferred

Clearance marker lights on cab and module

Remote jump-start point, front grille area with Anderson Style connector and cables

Diamond plate cab running boards with grip insert welded into center section, with mud flaps attached

Running board LED entry lights

Dual Electric Horns

Mirrors - Power heated, power adjust/manual telescoping trailer tow, flat and convex glass

Light & Convenience group

Interval windshield wipers

Rear mud flaps

#### **Ambulance Prep Package / Battery:**

Dual high-output (377 amp) alternators

Batteries: Two (2) OEM, wired to chassis ignition

Ignition switched module disconnect

Battery Switch and Auto-Battery Shutdown

Battery charger, 30 amp

Inverter sized for anticipated load

20 Amp shoreline with Kussmaul auto-eject, heavy duty cover, and indicator light, street side

115V power distribution box

Auxiliary Heater – A/C Connector Package

Electronic Throttle control/Automatic High-Idle

1½" minimum conduit leading from cab to electrical compartment in ambulance

Antenna leads pre-wired with connectors and bases (as specified in "Additional Equipment" section)

Radio power leads pre-wired with fuses (as specified in "Additional Equipment" section)

#### **Safety/Security:**

Airbag- Driver and Front Passenger

Safety belts – medium flint with height adjustable D- ring Securilock

Passive Anti-Theft system with specially coded ignition key to start the vehicle

Hidden switch in vehicle grille for power door locks

**Tires / Wheels:**

Six (6) tires of appropriate rating for GVWR of fully-loaded vehicle – M+S rated  
Steel Valve Stems with braided stainless-steel dual valve extenders for rear tires  
Polished stainless-steel wheel simulators four (4)  
DELETE Spare Tire, if included

**Modular Body:**

Minimum 148” long (interior), 95” Wide  
Minimum 72” headroom  
6” Body drop  
Side Walls - Minimum .125’ Thickness Aluminum – Single Sheet  
Roof – Minimum .090’ Thickness Aluminum – Single Sheet  
Diamond plate corner protectors/stone guards  
Diamond plate skirt rub rails  
Diamond plate or stainless-steel fuel and DEF overfill protection plates  
Power Load Main Oxygen Tank Mount for M and Large Tank Regulator  
Lift – up Rear Step Bumper, recessed when folded, with dock bumpers  
All windows shall contain “privacy” tinting  
Minimum six (6) Exterior Compartments  
Rear access door hold-opens

**Curb Side Entry Door:**

Retroreflective red/yellow chevron paint scheme on inside of doors  
Interior flashing red LEDs when open Curb side entry door check - double action gas shock  
Step well Curb side - 2-step diamond plate  
Stainless steel sills  
LED lights curb sidestep well activated on door opening  
Handicap-style Grab bar on curb side access door  
Grab bar inside curb side access door aft  
Install sliding or tilt out window in curb side access door

**Rear Entry Doors:**

Retroreflective red/yellow chevron paint scheme on inside of doors  
Interior flashing red LEDs when open  
Handicap-style Grab bar on both rear access doors  
Grab bar inside both rear access doors  
Stainless steel sills  
Heavy-duty door hold-opens

## **Modular Body Compartments:**

### **Module Compartments:**

All compartment door checks - Double Action Gas shock

All exterior compartments shall be welded aluminum diamond plate.

All exterior compartment door panels shall be smooth metal plate with retroreflective chevrons applied

All exterior compartments shall have stainless steel sills

All compartment doors equipped with flashing red LEDs when open

All compartments shall have LED strip lights adequate to light entire compartment

All compartments minimum one (1) adjustable shelf

All compartment doors to check past 90 degrees

Paddle type handles will be on all compartment doors

All compartments must have vents from interior to exterior

All compartments must have Dri-Dek (or equivalent), floor of compartment, black

Rubber mat on all exterior compartment shelves

Compartment dimensions subject to modification to accommodate interior cabinetry and features desired

### **Curb Side**

#### **Front:**

Minimum 17.5"W x 68"H x 35"D

Inside / outside accessible

Minimum of Two (2) adjustable shelves, one (1) top section, one (1) bottom section

8" high drawer to separate compartment, accessible from inside

Pull out tray to exterior on bottom section

#### **Rear, Skirt compartment, rear of wheel:**

Minimum 22.5"W x 21.5"H x 20"D

Minimum of one (1) adjustable shelf

#### **Rear, Full height compartment:**

Minimum 19.5"W x 84"H x 22"D

Divider with space for two (2) backboards and one (1) Ferno EXL scoop stretcher

Minimum of two (2) installed seat-belt style equipment restraints, backboard area

Compartment for Ferno EZ Glide stair chair

Three (3) adjustable shelves forward of divider that are inside/outside accessible

### **Street Side**

#### **Front:**

Minimum 19.5"W x 84"H x 20"D

Full Height, main O2 tank with power load

Two (2) adjustable shelves are desired above O2 bottle in driver's side front compt.

#### **Intermediate:**

Minimum 28.5"W x 39"H x 20"D

Storage of miscellaneous equipment with two (2) adjustable shelves

**Rear:**

Minimum 40.5"W x 36"H x 20"D

One (1) adjustable shelf

**Securing Devices for Equipment:**

Oxygen bottle base, Dual, to be located in recessed step well area at the head of the squad bench or other approved location.

**Module Interior:**

All medical equipment storage shall be designed to be within the reach of the attendant to minimize the occurrences of personnel from leaving their designated seating location

All countertops to be of solid-surface material with raised and radiused edges – blue color to match 2019 ambulance

Ceiling material to be white

Soundproofed floor with fully insulated body

**Flooring:**

Diamond plate pattern or non-slip equivalent. Ease of cleaning and decontamination desired. Anti-bacterial, grey colored.

Flooring shall roll up side walls 3"

Stainless steel wall panel minimum 12"H above floor roll-up

**Cot Mounting:**

Stryker PowerLOAD® Cot Fastener system (vendor quote available for reference)

Universal Floorplate option

7-year ProCare extended warranty

Appropriate floor framing structure to support PowerLOAD® system

**Ambulance Cot:**

Stryker Power-PRO XT Cot (vendor quote available for reference)

PR cot retaining post

Power Pro standard components

X-restraint package

Dual Wheel Lock

Trendelenburg

Steer Lock Option

J-Hook

PowerLOAD® Compatible Option

120V AC SMRT Charging Kit

XPS Option

Flat mattress

Retractable Head Section O2

3 Stage IV Pole PR Option

Pocketed Back Rest Pouch

Equipment Hook

7-year ProCare extended warranty

**Switching system (lighting, O2, suction, climate control, etc.):**

Minimum of two (2) control panels, one located near action area, and one located above head of squad bench (HOSB) cabinet curbside, each to function independently

Climate control system, thermostat controlled, control panels located in action area and duplicate curbside wall HOSB

**Oxygen System:**

Oxygen M size bottle holder with large tank regulator, power load system, and electric solenoid valve

Oxygen gauge located near action area

Two (2) Oxygen outlets located near action area, one (1) in wall HOSB and one (1) head of cot ceiling raceway

Three (3) flow meters, ball type

**Suction System:**

SSCOR-type regulatable suction unit with disposable container mounted in action area

SSCOR-type regulatable suction unit with disposable container mounted beneath HOSB cabinet

One (1) 12-volt 24-hour clock mounted in patient compartment

Interior patient compartment indicator for brake lights, left turn, right turn

Electric exhaust fan with vent to outside

Sharps containers and glove dispensers to be installed as determined

One (1) locking vault with electronic combination lock with audit tracking for minimum 25 users, located street side, forward most upper compartment or approved alternative location – **NEED to be CONSISTENT with**

**VAULT system in 2019 ambulance.**

Head bumpers above side and access rear doors

**Grab Rails:**

72" minimum recessed over squad bench

72" minimum over cot area

At both rear entrance door jambs

Side entrance door jamb

**IV Holders:**

Rubber, dual recessed over head of cot curb side

Rubber, dual recessed over head of cot street side

Rubber, dual recessed over foot of cot curb side

Rubber, dual recessed over foot of cot street side

**Seating:**

All patient compartment seating positions to be equipped with minimum 3-point (4-point or greater preferred) occupant restraint systems and comply with SAE J3026 specifications

Interior upholstery: grey, flat seamless vinyl

CPR seat, located street side, Minimum 25"W, seat/lid for under seat storage

“Squad bench” seat for 2, located curb side, Minimum 72 ”W, seat/lid for under seat storage  
Attendant seat, swivel mount, grey vinyl, center mount, integrated FMVSS compliant child-safety restraint

**Head of Squad Bench (HOSB) cabinet:**

Solid surface countertop with raised and radiused edge  
Minimum three (3) drawers, aft opening with stainless steel latches  
LifePak 15 mount, SAE J3043 compliant  
SSCOR-type regulatable suction unit with disposable container mounted in recessed well beneath HOSB cabinet  
Safety net

**Foot of Squad Bench (FOSB) cabinet:**

Storage compartment with minimum one (1) adjustable shelf and door with stainless-steel latch  
Pull out trash/bio waste receptacle, sharps disposal recessed below FOSB storage compartment  
Pole/bar to mount IV infusion pump

**Aft of CPR seat cabinet:**

Solid-surface countertop with raised and radiused edge  
Pole/bar to mount IV infusion pump  
Pull out trash/bio waste receptacle, sharps disposal recessed below cabinet or action area

**Interior Cabinets:**

Top hinged, sliding doors with gas struts on all upper interior cabinets  
All compartments shall have LED strip lights adequate to light entire compartment, switched

**Electrical System:**

Warning lights/sounds for open compartment, open door and parking brake.

Low voltage alarm and indicator

Back-up alarm with resetting cancel switch

Full time load manager/sequencer for emergency lights

Six (6) 12-volt medical outlet power points, exact locations TBD, but likely locations include:

- Action area
- Curb side front compartment top section
- Curb side front compartment bottom section
- Curb side HOSB
- Curb side FOSB
- Street side Aft of CPR seat area

Eight (8) hospital grade illuminated 110V outlets, exact locations TBD, but likely locations include:

- Action area
- Curb side front compartment top section
- Curb side front compartment bottom section
- Curb side HOSB
- Curb side FOSB
- Street side aft of CPR seat area
- Cab behind driver’s seat

- Cab behind passenger seat

Minimum of four (4) USB plugs for iPad or iPhone chargers mounted in Action Area of ambulance  
Spotlight wired to console

#### **Module lighting:**

Checkout timer switches to be located near curb side access door and rear access doors

LED dome lights, minimum 6

Fluorescent patient compartment lights, minimum 4

#### **Emergency warning/lighting:**

All emergency lighting shall be Whelen Super-LED with chrome flanges

All required DOT/FMVSS lighting shall be LED, including brake/turn lights

Headlight high-beam flasher

Whelen full-function (Hands-free wired to steering wheel horn ring, Air horn, Wail, Yelp, PA) siren with PA microphone and two (2) 100W through bumper speakers

#### **Front lighting:**

Seven (7) surface-mount Whelen 900 series across front of module R/W/R/W/R/W/R

Four (4) Whelen WION series on grille, Two (2) upper in red, Two (2) lower in white.

Two (2) 700 series in red on front fenders

Two (2) Whelen populated arrow directional lights on front of module, one (1) each side

#### **Side lighting:**

Two (2) 900 series in red left side

Two (2) 900 series in red right side

One (1) 700 series split red/white left side over rear wheel

One (1) 700 series split red/white right side over rear wheel

Four (4) Whelen 900 series 13-degree scene lights, Two (2) each side

#### **Rear lighting:**

Seven (7) 900 series flashing across top back of module B/W/R/A/R/W/R

Two (2) 900 series flashing red warning lights, one (1) each side of rear access doors

Two (2) 900 series flashing amber warning lights, one (1) each side of rear access doors

Two (2) 900 series reverse lights, one (1) each side of rear access doors

Two (2) 900 series red brake lights, one (1) each side of rear access doors

Two (2) Whelen populated arrow directional lights on rear of module, one (1) each side of rear access doors

Two (2) 4" LED recessed running board lights

#### **Underbody lighting:**

White LED underbody ground lights, switched at console and to activate upon compartment, access door, or cab door opening with courtesy timer

### **Compartments:**

Whelen OS red LED compartment lights in all exterior compartment and access doors. There shall be a red flashing LED light on the interior of each compartment door in the upper most outboard position. Lights to be switched with door ajar and will flash when door is open to warn traffic, etc. of the open door. Each exterior compartment shall have LED strip lights adequate to light the entire compartment.

### **Paint/Decals:**

Chassis and module exterior will use PPG oxford white paint (or equivalent) with maroon (PPG #3936) retroreflective "hockey stick" stripe – per department specifications

Paint shall have a minimum seven (7) year warranty

Red/Yellow Diamond Grade retroreflective vinyl, chevron pattern installed on rear of module

Red/Yellow Diamond Grade retroreflective vinyl, chevron pattern installed on inside of all module access doors and inside of all exterior compartment doors

Two (2) Star of Life, blue retroreflective, 12", installed beside rear windows

Two (2) Star of Life, blue retroreflective, 18", installed on each side of module per department specifications

2" white retroreflective vinyl stripe installed above and below maroon stripe both sides - chassis and module

All lettering shall use retroreflective maroon vinyl unless otherwise specified - installed per department specifications

Two (2) "BROOKLINE, NH AMBULANCE" – installed on each side of body, 6"H - per department specifications

Two (2) Town seals, color - installed on each front compartment door, artwork to be provided by Brookline Ambulance

One (1) "BROOKLINE" – maroon retroreflective, installed on the rear doors, 4"H - per department specifications

One (1) "AMBULANCE" – blue retroreflective, installed on the rear doors, 4"H

One (1) "BROOKLINE, NH" – maroon retroreflective, installed on front of module, 6"H

One (1) "AMBULANCE" – blue retroreflective, installed on leading edge of hood, mirror-image

Four (4) "8" – maroon retroreflective with surrounding circle, 4"H, one (1) to be installed on each side of module per department specifications

### **Additional Equipment to be included in proposal**

#### **Supply and install:**

(1) Kenwood NX-5700BK P25 50W 2-Way VHF RF Deck with low-profile roof antenna, dual-head capability (KRK-14H and KRK-15B adapters), KAP-2 pre-amp, and KES-5 auxiliary speakers

Subscriber programming

All wiring provisions necessary for installation and mounting

One KCH-19M radio head, KMC-35 microphone and speaker mounted in action area

One KCH-19M radio head, KMC-35 microphone and speaker mounted curbside wall above HOSB cabinet

Kenwood Dual-Deck (One (1) NX-5700BK and One (1) NX-5800BK) P25 50W 2-Way VHF/UHF RF Decks with low-profile roof antennae, dual-head capability (KRK-14H and KRK-15B adapters), KAP-2 pre-amp, and KES-5 auxiliary speakers

Subscriber programming

All wiring provisions necessary for installation and mounting

One KCH-19M radio head, KMC-35 microphone and speaker mounted in action area

One KCH-19M radio head, KMC-35 microphone and speaker mounted in cab