

Section II

Bid Specifications

1. Scope, Purpose, and Classification

Scope: This specification covers the remounting and refurbishment of a commercially produced, ground medical care and transport vehicle hereinafter referred to as an ambulance or vehicle. A vehicle in compliance with this specification shall be defined as a standard ambulance. This vehicle shall be in accordance with the Ambulance Design Criteria of the National Highway Traffic Administration, U.S. Department of Transportation, Washington D.C. This Bid specification is based on Federal Ambulance Specification KKK-A-1822-E

Purpose: The purpose of this document is to provide minimum specifications and test parameters for the remounting and refurbishment of an ambulance that meets the needs and desire of the Town of Northwood. It establishes essential criteria for the design, performance, equipment, and appearance of the vehicle.

2. Requirements

2.1 **General:** This is an engineer, design, construct, and delivery type specification and is not the intention this agency to write out vendors of similar or equal equipment of the types specified. It should be noted however, that this specification is written around the needs of the Town of Northwood. With the intent to standardize certain components, therefore, in numerous places we have named specific brands of components. This has been done to establish a certain standard of quality. Other brands will only be accepted providing the vendor provides documentation in the bid that the brand offered meets or exceeds the quality of the actual brand called for in the specifications.

2.2 **Materials:** The ambulance, chassis, ambulance body, equipment, devices, medical accessories and electronic equipment to be delivered under this contract shall be standard commercial products which meet the requirements of this specification. The ambulance shall comply with all Federal Motor Vehicle Standards (FMVSS), the

Federal regulations applicable or Specified for the year of manufacture. The chassis, components and optional items shall be as represented in the manufacturer's current technical data. Materials used in the construction shall be all new and not less than the quality conforming to current engineering and manufacturing practices. Materials shall be free of defects and suitable for service intended

2.3 **Manufacturing Ability:** It is the intent of these specifications that the remounter of this vehicle could remount and refurbish a complete ambulance within their plant or facility, except the chassis. The ambulance remounter must have significant experience in the remounting and refurbishment of modular ambulance bodies. In addition, the bidder/manufacturer must include with this bid proof of product liability coverage

2.4 **Exceptions to Specifications:** Any exceptions to these specifications indicated must be clearly pointed out. Otherwise, .it will be considered that items offered are in strict compliance with these specifications and the successful bidder will be held for delivering a vehicle meeting these specifications. Any exception must reference by item number and be explained in detail on a separate sheet marked "Exceptions"

2.5 Proposals must be submitted in the same order as specifications

3. Price, Warranty and Payment

3.1.1 All bid prices shall be complete and include warranty and delivery of completed vehicle. The completed vehicle shall be delivered by the successful bidder

3.1.2 Payment shall be made in accordance to these specifications and the bid proposal submitted by the bidder, Payment will be made upon acceptance of the vehicle and equipment specified under these specifications.

3.1.3 All bid pricing and conditions must be specified on the Bid Proposal Form. Bid prices shall be valid for at least 90 days from the date of bid opening or as otherwise specified on the Bid Proposal Form.

3.1.4 Full payment will be made when the unit is received, Inspected, and found to comply with procurement specifications, Free of damage and properly invoiced

3.2 **Warranty:** The successful bidder shall provide remounter's warranty coverage for the ambulance conversion which shall at a minimum include:

3.2.1 All available warranties will be documented within the bid. Warranty information should include but not limited to: Structural, electrical and paint. The Ambulance remount shall be free of substantial defects in remount materials and workmanship, which is attributable to the Warrantor remount work and which arise during normal use and service. There shall be a copy of the warranty statement included in the bid document.

3.2.2 Effective starting date is the date the Town of Northwood Fire/Rescue accepts delivery of competed vehicle.

3.2.3 Warranty on the chassis portion of the completed ambulance shall be the responsibility of the chassis manufacturer

3.3 **Insurance:** All bidders shall have in place product liability insurance. Copy of insurance certification to be provided with bid.

3.4 **Delivery:** The delivery schedules that are submitted will automatically become binding upon the successful bidder. Bid shall include length of time vehicle will be out of service beginning with the day the vehicle is delivered to the refurbishing facility.

4. **GENERAL SPECIFICATIONS:**

4.1 Bidder to provide chassis for remount however the Town of Northwood may provide a chassis for remount if one can be located cheaper in price

4.2 Mounting hardware, wiring, connections, outlets, Formica laminate or any other part of the ambulance not specifically mentioned in the above found of be worn or damaged or not functioning shall be repaired or replaced as needed with approval of the purchaser

5. CHASSIS:

5.1 2024 or 2025 Ram 5500 4X4 CA120"

5.2 Diesel 6.7-liter Cummings Turbo Diesel with AS69RC HD 6 speed Transmission or 6.4 V8 with AS66RC HD 6 speed Transmission to be decided on by customer.
(see chassis options)

- 5.2.1 Tradesmen chassis
- 5.2.2 Dual Alternators 440 amp.
- 5.2.3 Ambulance Prep group
- 5.2.4 Safety Group
- 5.2.5 Interior delete group
- 5.2.6 Heavy duty front suspension
- 5.2.7 Voltage monitoring idle up group.
- 5.2.8 Rear back up alarm
- 5.2.9 Manual DEF regen.
- 5.2.10 Equipment group 1
- 5.2.11 Polished Aluminum Wheels
- 5.2.12 Front Rubber Floor mats
- 5.2.13 Red Seat belts

5.3 Regular Cab

5.4 Replace stock rear suspension with Liquid Spring System

6. Lighting

6.1 Install customer supplied front off road light bar.

7. Electrical

- 7.1 Install new batter cables and chassis wire harness
- 7.2 Install new grill, intersection, running board and siren speaker wire harness
- 7.3 Install new 275-amp battery switch
- 7.4 Install 200-amp master switch to be located on main switch panel in cab
- 7.5 30-amp shoreline plug Kussmaul Auto eject
- 7.6 Test electrical system
- 7.7 Install hidden grille cab door unlock switch (All doors including Box Module)
- 7.8 Inverter and charging system shall be inspected for output and performance. Contact customer for instructions for units that fail performance testing
- 7.9 Install New Heat Unit and separate AC Unit for Patient compartment, thermostat, filter of equivalent design and output. Electronic water valves and servo shall be replaced and installed in an appropriate serviceable area.
- 7.10 Install electronic train horns for airhorns to be wired separately from siren.
- 7.11 Chassis Warning Lights Grille
 - 7.11.1 (2) Whelan M7 DUO, RED/WHITE (Model: M7DD)
 - 7.11.2 (2) Whelan M7 Flange Chrome (Model: M7FC) Fenders (2) Whelan M7 DUO, RED/WHITE (Model: M7DD)
 - 7.11.3 (2) Whelan M7 Flange Chrome (Model: M7FC) Module Warning/Illumination/DOT.
 - 7.11.4 Front traffic emitter (1) Retain existing.

8. Body and Paint

- 8.1 Sand blast as necessary. All areas that show any indication of corrosion, bubbling or show signs of wear should be sand blasted prior to painting. box including door and compartment jams.
- 8.2 Repair all dents, scratches, corrosion, and other body defects prior to painting. Any structural issues shall be repaired. Major structural issues discovered during remount shall be brought to the Town of Northwood's attention before repairs
- 8.3 Remove and repair urea fill tube as needed
- 8.4 Calibrate Opticom mounted center of box facing forward
- 8.5 Module (Box) shall be repainted to match new chassis
- 8.6 Paint Code FLNA30482 (Red) and FLNA93101 (Gray)
- 8.7 Wet sand and buff paint
- 8.8 Running boards shall be replaced with new diamond tread running boards
- 8.9 All aluminum fender flares shall be replaced with rubber fender flares all around
- 8.10 Repair, refurbish, or replace rear bumper, Bumper caps, Rear lift Step, and rubber dock stoppers.

- 8.11 Repair, refurbish or Replace Aluminum Rub Rail around Box
- 8.12 Repair, refurbish, or replace Install new Aluminum side entry step.
- 8.13 Install new Back up alarm, standard beep pattern.
- 8.14 Install new rear mud flaps.
- 8.15 Add lettering and graphics to match the current fleet.
- 8.16 If necessary, replace chevrons on the rear of the vehicle. If chevrons are replaced install new chevrons to match the existing fleet.

9. Compartment and Access Doors

- 9.1 Evaluate, repair or replace all compartment door latches.
- 9.2 All weather stripping on doors and compartments evaluate, repair, or replaced as needed.
- 9.3 Replace interior Lexan double doors (Equipment Cabinet) with Aluminum latching roll up door in Patient Compartment
- 9.4 Install Rear Suspension Cut off switch
- 9.5 Evaluate, repair or replace LED Lighting in each outside compartment.
- 9.6 Add flashing Red/White lighting on inside of outside compartment and to have lights activate while compartment doors are opened.
- 9.7 All exterior, access door locks and latches must be replaced, and locks must operate with the chassis electric locks.

10. Module and Cab Interior

- 10.1 Remove existing flooring including subflooring and replace, Replace flooring with seamless one-piece dark gray LonPlate heavy duty flooring.
 - 10.1.1 Meets FMVSS 302 (per CFR 49 §571.302)
 - 10.1.2 Per ASTM F1303: Type I, Grade 1, Class B, Commercial Use
- 10.2 Install and wire Ferno Pro F1 Universal Cot fastener with ICS integrated Charging system for the Ferno X1 power cot.
- 10.3 Evaluate, refurbish, or replace stainless steel kick plates throughout Patient Module/Box
- 10.4 Evaluate repair or replace all interior upholstery.
- 10.5 Remove remote radio heads and on the left action area provide blank cover plate. To cover any holes.
- 10.6 Evaluate, repair, or replace all counter tops. All holes for old equipment must be appropriately filled and sealed.
- 10.7 Remove "Technician" seat and track and replace with bench seat with matching upholstery.
- 10.8 Install blanket warming drawer under new bench, Warmer to heat anytime truck is running or plugged in not running.
- 10.9 Check Lexan equipment door latches and handles, replace as needed.
- 10.10 Replace double compartment door with roll up door.
- 10.11 Keep existing compartments and doors and check latches and door handles and replace as needed.
- 10.12 Oxygen system to be checked for leaks and gauges checked for accuracy replacing gauges as needed.
- 10.13 Add 4 glove box holder above new bench area.
- 10.14 Mount Zoll X Series Technimount bracket in action area on the right side of the ambulance box, on top of cabinet with drawers
- 10.15 Evaluate, repair, or replace interior box lighting.
- 10.16 Test Suction System, any leaks found to be repaired, Suction pump shall be inspected and securely mounted to area of origin.
- 10.17 Replace any cracked or broken doors, shelves.
- 10.18 Add 3 position back up camera with sound. Camera 1 traditional back up camera, position 2 interior of the patient compartment, and position three to be a right-hand side blind spot camera.
- 10.19 Cover all openings and holes caused by removing or relocating equipment.
- 10.20 Install new console with necessary switches, controls, and cup holders in chassis.
- 10.21 Wire 1 radio in chassis and 1 radio separately in patient compartment. Install wiring or chase ways for installation of three room mounted antennas. The Radio in the patient compartment to be installed on the right-side action area.

11. Old Chassis

Install Window in into pass through opening and return to customer.