

INVITATION TO BID
By the City of Homer, Alaska, for the
Ambulance Replacement

JAN 19 2016

Sealed bids for the manufacture of a new ambulance will be received at the Office of the City Clerk, City Hall, City of Homer, 491 East Pioneer Avenue, Homer, Alaska, until **2:00 p.m. Friday, February 26, 2016**, at which time they will be publicly opened and read. The time of receipt will be determined by the City Clerk's time stamp. Bids received after the time fixed for the receipt of the bids shall not be considered. All bidders must submit a City of Homer Plan Holders Registration form to be on the Plan Holders List and to be considered responsive. Plan holder registration forms and Plans and Specifications are available online at <http://www.cityofhomer-ak.gov/rfps>


The project is partially funded with State of Alaska Code Blue Grant monies. The project will replace a Type I, 4 wheeled drive ambulance with a new, state of the art unit.

Please direct all technical questions regarding this project to: Robert Painter, Fire Chief, at (907) 235-3155, or (907) 399-4490. Email is rpainter@ci.homer.ak.us

An electronic copy of Plans and Specifications is available on the City's website <http://www.cityofhomer-ak.gov/rfps> or you may purchase hard copies at the Office of the City Clerk upon payment of \$10.00. All fees are non-refundable. The City of Homer reserves the right to accept or reject any or all bids, to waive irregularities or informalities in the bids, and to award the contract to the lowest responsive bidder.

DATED this 19th day of January, 2016.

CITY OF HOMER


Katie Koester, City Manager

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Fiscal Note: 415-924

CITY OF HOMER

AMBULANCE SPECIFICATIONS & DESIRED OPTIONS

RECEIPT AND OPENING OF BIDS: Sealed proposals for the furnishing of an Emergency Services Vehicle must be received by:

Date:

Address: Homer City Clerk
491 E. Pioneer Ave.
Homer, AK 99603

- A. All proposals must be presented on the form included with the specifications and **returned in a sealed envelope**. Proposals must be plainly marked: SEALED AMBULANCE BID
- B. **PURPOSE:** The purpose of these specifications as written is an attempt to make comparisons of similar options that are available in the ambulance industry. Therefore, bidders are required to submit a copy of these specifications (clearly marked) along with drawings, and other requested and pertinent information that will best describe the vehicle bid. If a bidder does not submit a bid per the instructions in these specifications on a copy of the pages received with yes/no questions answered and exceptions listed and explained as required), the bid will be deemed incomplete and WILL BE REMOVED from the bidding process as non responsive.
- C. **INSTRUCTIONS:** Bidder is required to read the following questions and mark "yes" or "no" if you comply with the exact specifications of this bid. The entire scope of specifications shall be strictly adhered to. Any deviations to these specifications MUST be noted by the specific item number and be explained in full detail on a separate sheet entitled "Exceptions to bid". Any bid submitted without exceptions will be required to meet EVERY DETAIL of these specifications regardless of the cost to the bidder. Deviations from specifications listed will become a part of the final contract. (It would be in your best interest to list any deviations even if you feel they are of better quality on the exceptions page.)
- D. **Vendors taking complete exception to the entire specifications will be removed from the bidding process as non-responsive.**
- E. **AWARD OF CONTRACT:** The award will take into consideration the price, quality, and performance of the proposed vehicle.
- F. **Procurement Policies of the City of Homer will be followed:** Bids shall be received by the Homer City Clerk on or before 2:00 PM Alaska Time, on February 26, 2016.
 - a. Processing of Bids. Notwithstanding other provisions of the Procurement Policy, the City may:

- i. Reject defective or nonresponsive agreements;
 - ii. Waive any irregularities in any and all bids;
 - iii. Reject all bids;
 - iv. Readvertise for bids with or without making changes in the plans, specifications or scope of work.
 - b. Lowest Responsive and Responsible Bidder; in determining the lowest responsive and responsible bidder, the City shall consider:
 - i. The price;
 - ii. The ability, and capacity and skill of the bidder to perform the contract within the time and price specified;
 - iii. The reputation and experience of the bidder;
 - iv. The bidder performance and payment under previous contract.
- G. **MINIMUM STANDARDS:** The highest degree of quality materials and building processes is required for the emergency medical vehicle being proposed. At a minimum, each manufacturer being proposed must meet all current mandated or voluntary ambulance design standards in effect at the date of the proposal submission. All current Federal motor Vehicle Safety standards (FMVSS) must be met. Finally, if certification programs are offered to the ambulance manufacturer being proposed by any chassis manufacturer utilized by the ambulance manufacturer, those certification standards must also be met. For example Ford Motor Company offers the Qualified Vehicle modifier program, in which numerous engineering standards and build standards are reviewed and rated. To ensure high and acceptable standards the manufacturer being proposed must be a member of this program. This applies even if a chassis other than Ford is being proposed.

These specifications shall in no way restrict the bids to any specific brand name. However, bids will only be considered from manufacturers that produce and assemble complete emergency medical service vehicles within the continental United States.

FAILURE TO MEET ANY OF THE FOLLOWING STANDARDS WILL RESULT IN REJECTION OF THE PROPOSAL.

- H. **QUALIFICATION OF BIDDER:** Successful bidder must be an authorized distributor for the product he/she offers. Satisfactory evidence of the Bidder's ability to construct the apparatus specified shall be provided as follows:

A statement showing the location of the factory where the apparatus is to be manufactured. The Bidder shall state the number of years the manufacturer has been building this specific type of apparatus.

The Bidder shall state the number of years Bidder has been acting as an authorized dealer for Manufacturer.

The Bidder shall provide proof of licensing as an authorized new apparatus dealer.

A statement indicating that the complete apparatus, with the exception of the cab and chassis, shall be constructed by one manufacturer.

All bidders must have any and all current licenses required by law to do business in this state of Alaska.

- I. **WARRANTIES:** The bid shall state the type of warranty that the manufacturer will provide, with copies of warranty coverage and omissions enclosed with these specifications. Warranties will at minimum provide a twelve (12) months and unlimited miles warranty on the entire vehicle which covers defective parts and or components of its manufacture. Warranty shall include any and all costs for labor and parts or materials that are required to correct any and all deficiencies. It is not the intent of this requirement that routine preventative maintenance items such as light bulbs, filters, tires, brake linings, windshield wiper blades, etc. be covered. A sample of warranty shall be submitted with the Bidder's proposal.

The manufacturer of the vehicle(s) shall warranty the structural integrity of the modular body for a period of not less than 15 years. This warranty shall be in writing and shall be submitted with the Bidder's proposal.

The Manufacturer shall provide a Manufacturer's converter electrical system warrantee, covering components of the electrical system for the lifetime of the vehicle. It is not the intent that routine preventative maintenance items such as light bulbs, etc. (unless covered under manufacturer's warranty) be covered. A sample of the electrical system warranty shall be included with the bid proposal.

- J. **WARRANTY SERVICE RESPONSE:** The successful Bidder must have a factory authorized service center staffed with certified emergency vehicle technicians available twenty-four hours a day seven days a week to respond to a verbal or written notification that warranty service work is required. Vendor shall be willing to provide follow-up service including replacement parts for repairs, etc. as may be needed by this service to maintain the vehicle after it is put into operation.

Bidders shall provide the location and service capabilities and contact information for the ambulance manufacturer's authorized service facility and parts depot. Additional warranty or logistical services that the Bidder might provide above and beyond the requirements of these specifications shall also be listed. They may be used as an additional basis for a contract award.

- K. **DELIVERY & TRAINING:** Person or persons delivering the unit must be a licensed representative of the firm bidding and must be a certified service technician of the represented dealership. They must be willing to give orientation and training on the vehicle to this service and be willing to spend up to 24-hours in the area if necessary.

Vendors whose bids fail to comply with the requirements in these specifications will be rejected.

- L. **NON COLLUSION:** By submission of this proposal response, the bidder certify under penalty of perjury, that to the best of their knowledge and belief the following:
 - a. The prices in this response has been arrived at independently without collusion, consultation, communication, or agreement for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor, and;
 - b. Unless otherwise required by law, the prices that have been quoted in the proposal response have not knowingly been disclosed by the bidder and will not knowingly be

disclosed by the bidder, prior to the public proposal opening, either directly or indirectly to any competitor, and;

- c. No attempt has been made or will be made by the bidder for the purpose of restricting competition, to induce any person, partnership, or corporation not to submit a proposal response

- M. **MATERIALS AND WORKMANSHIP:** All equipment furnished shall be guaranteed to be new and of current manufacture, met all relevant standards, conforming to current engineering, and manufacturing practices at the time of the chassis manufacture and standard. (Demos are NON-responsive – unless specifically requested). Materials shall be free of defects and suitable for the service intended, and the requirements of this specification, and be in an operable condition at the time of delivery.

All parts shall be of high quality workmanship, and shall be in production at the time of bid. No part or attachment shall be substituted or applied contrary to the Manufacturer's recommendations and standard practices.

All workmanship shall be of quality and performed in a professional manner so as to ensure a safe and functional apparatus with an aesthetic appearance.

If a vendor represents more than one (1) AMBULANCE MANUFACTURER, we will only accept the top of the line manufacturer meeting these specifications. **This purchaser is NOT interested in low quality, budget built equipment**

- N. **SINGLE SOURCE MANUFACTURER:** To simplify warranty coverage and to assure a consistent level of quality throughout the vehicle, a manufacturer is desired that manufactures the major components for the ambulance (excluding the chassis). Major components are defined as the module body, the interior cabinets, and the converter added electrical wiring system. This purchaser understands that manufacturers may purchase some elements, such as switches, boards, etc., with which to manufacture a system. Further, this specification requires the vehicle manufacturer to own the design of, as well as the rights to the onboard converter added electrical system. Generic after-market systems that are manufactured by an outside company and installed by the vehicle converter are NOT acceptable. These requirements are addressed elsewhere within this specification where the specific defined items are located. Manufacturers who outsource any of the above-referenced components shall be considered non-responsive and will be rejected.
- O. **ENGINEERING STAFF:** The vehicle converter shall design and construct its own module bodies, and maintain an engineering staff at its manufacturing facility to handle any custom body changes that may be necessitated by this design. It is the intent of this purchaser to receive a finished product of the highest standards of quality available. Vehicle manufacturers who design and build their own bodies and who have the expertise of an engineering staff will possess a greater capacity as far as handling a custom project of this type than manufacturers who purchase their bodies from an outside vendor. Accountability and quality of the design and construction of the body are enhanced when the vehicle converter manufactures the body.
- P. **EXTRA COST ITEMS:** Total bid price will include all items and components as listed in these specifications. Listing any items contained in these specifications as an extra cost item, unless otherwise specified will be cause for rejection.

- Q. **INDEMNIFICATION AND INSURANCE:** This agency seeks to mitigate future liability exposure; therefore, all primary manufacturers will submit their **Certificate of Insurance** for evaluation. This agency will only consider a primary manufacturer with a minimum of Ten Million United States Dollars (10,000,000.00 USD) that is based on a PER INCIDENT basis. This insurance shall be issued by a company rated “A” or better as reported in the current edition of Best Key Rating guide, published by Alfred M. Best Company, Inc. Aggregate liability coverage will not be considered regardless of amount. Failure to comply will be deemed non-responsive.
- R. **SITES OF WORK:** Other than the chassis, specified accessories, and raw materials such as aluminum, wood, etc.; all shops and sub-shops shall be within the complex(s) that are directly owned and controlled by the primary manufacturer. Any assemblies including, but not limited to upholstery, fiberglass, cabinetry, electrical, structural and paint application, that are performed or supplied outside of the primary manufacturer’s location(s) **must be noted**. The name, address, and contact person supplying the primary manufacturer and the assemblies must be provided in writing to this agency. **Non-disclosure will be sufficient grounds for rejection of bid or termination of contract. NO EXCEPTIONS.**
- S. Ambulances or chassis’ imported for consideration of this specification into the United States under the North America Free Trade Act must provide documentation of compliance with all United States laws applicable. Further, any import ambulance must be independently certified and tested within the United States to meet federal certification.
- T. **GOING CONCERN:** Bids will only be considered from companies that have an established reputation as manufacturers of similar equipment, specifically for the EMS/Fire Service. To be considered an established business, manufacturer must have been manufacturing similar units, and utilizing similar building techniques for NOT LESS THAN (15 – FIFTEEN) YEARS. **NO EXCEPTIONS.**

The bidder shall disclose any pending or anticipated litigation between the Bidder and any other party or parties that might affect this contract.

The Bidder must submit with bid a list of a minimum of 10 customers who have purchased a vehicle of this type during the past 3 years, along with Names, Contact Person, and Telephone number for reference purposes. These must include option of full-height walk-through. The ten references must be enclosed with bid package.

1. YES NO. **2015 OR NEWER** -- Ford F-350 (or equivalent) Type I ambulance.
2. YES NO. OEM **4x4 CHASSIS.**
3. YES NO. **Type I full-height walk-through.** This service desires a two-piece (interior/exterior) raised cab extension with connecting bellows for a **full-height cab to module walk-through.** (See drawings). **We will NOT accept a vehicle without the full-height cab to module walk-through – DO not take an exception to this !!**

4. YES NO. If Ford chassis MUST have **FORD AMBULANCE PREP-PACKAGE # 47A**. No altering of chassis requirements will be accepted.
5. YES NO. Ford F-350 6.7L Power Stroke V8 (or equivalent powerplant). Turbo charged direct injection diesel engine with FORD (or equivalent) five-speed heavy-duty automatic transmission with electric overdrive and Torqshift heavy-duty transmission.
6. YES NO. G.V.W. Minimum 13,000 - on 165" wheelbase, 4,850 lbs. Rear axle Dual rear wheels 9,750 lbs.
7. YES NO. Fuel tank: Ford (or equivalent) EM approx. 36 gallon / single tank.
8. YES NO. **Fuel fill housing:** A cast aluminum fuel fill housing shall be installed according to the chassis manufacturer's instructions.
9. YES NO. **Urea filler location – MUST be on the exterior of the module** or under the chassis hood. **We will NOT accept** a location that is inside a compartment – for obvious reasons of contamination of equipment when filling the urea tank.
10. YES NO. This vehicle to have an OEM high idle that will maintain the vehicle's charging system with all lights on.
11. YES NO. Alternator, Ford OEM dual 130 amps furnished on ambulance prep-pack 47A chassis or other manufacturers equivalent.
12. YES NO. Mirrors: trailer towing, with remote & HEAT.
13. YES NO. Vehicle must have interior trim package with: cruise control, intermittent wipers, tinted windows, chrome front bumper, power locks, power windows, Daytime running lights.
14. YES NO. **Undercoating –**
15. YES NO. **Heater Hoses –** located front cab to rear must be **wrapped with insulation** (this is required due to our extreme weather conditions).
16. YES NO. High back captain chairs/ cab OEM cloth seats GRAY in color.
17. YES NO. **Heat/AC must be vented to front cabinet E1 –** located in bulkhead of modular box.
18. YES NO. Seven (7) OEM radial tires. This will include a spare tire.
19. YES NO. **Wheel Covers:** Stainless steel, installed.
20. YES NO. **Tow Eyes,** black located through rear kick plate.

TESTING & CERTIFICATION:

21. **YES** **NO.** **If using Ford Chassis - QVM Certification:** QVM Certification is a symbol of commitment to the ambulance industry and a level of quality. Therefore, regardless of chassis specifications the primary manufacturer must include with this proposal their current QVM certification. If you have lost your QVM in the last 5 years you must so state – including the reason for the loss of certification. **Current QVM Certification copy must be enclosed with bid.**
22. **YES** **NO.** Has your QVM certification been lost in the past 5 years:
23. **YES** **NO.** **Bidder must provide proof of ISO 9001:2000 Certification.** A copy of certification must be enclosed with bid.
24. **YES** **NO.** AWS Certified welders: all welders employed by the primary manufacturer shall be certified to the American Welding Society Standard AWS D12, and certification documents must be provided if requested.
25. **YES** **NO.** Bidder must provide proof of National Truck equipment Assn. MVP (Member verification Program)
26. **YES** **NO.** Bidder must provide proof of: ISO 17025 Certified 3rd party Testing Lab -- with current testing. Certification must be enclosed.
27. **YES** **NO.** **Ongoing Safety Testing:** This agency is committed to partnering with an ambulance manufacturing company that has programs in place for continual modular body safety improvements. To this end, this agency requires proof that ongoing safety testing and evaluation of modular body safety programs are in place. At minimum, this agency requires, in addition to roof static load testing, side static load testing with a minimum side load of 22,700 lbs. – the following:
- a. Center of Gravity Testing – NFPA 1901 SAE J2180: **YES** **NO.**

Certifications from an accredited ISO/IEC 17025 laboratory shall be submitted with the response to these specifications that the manufacturer of the ambulance bid has had its Center of Gravity formulas validated by this Independent Testing Laboratory as compliant to the requirements of SAE J2180 and those of NFPA 1901, Section 4.13.1.1.

There shall be a minimum of three (3) examples for the validation of the Center of Gravity formulas used by the manufacturer of the ambulance being offered to meet these specifications. These examples shall include the Center of Gravity formulas used, actual test results certified by the Independent Testing Laboratory to the requirements of SAE J2180, and photos of the ambulance used in each example during the certified testing process.

- b. Side Impact Crash test –40 G’s – FMVSS 214 & HIS Protocol V standards
 YES **NO.**
- c. Corner Impact Drop test 30- G’s. **YES** **NO.**

d. Frontal impact Hygee sled test 20.5 G's ____ YES ____ NO.

MODULAR BODY CONSTRUCTION

28. ____ YES ____ NO. **ELECTRICAL:** The battery system will be wired in accordance with Federal specifications. The switch must be physically isolated from other switching to preclude inadvertent deactivation while the vehicle is running. The system MUST meet SAEJ541 for starter circuit voltage drop for heavy-duty applications
29. ____ YES ____ NO. A 200-amp power disconnect switch shall provide module power. An ignition interlock will disconnect module power five (5) minutes after vehicle's ignition is turned off. The interlock will also allow module power to be activated independently for five (5) minutes without engaging ignition. (See momentary timer switch later in these specifications.)
30. ____ YES ____ NO. **Modular Box Size:** 153 x 95 with **minimum 72" (RAISED) interior** headroom. Do not bid a smaller box size.
31. ____ YES ____ NO. No two-stage manufacturers. -- Including construction of modular box, cabinetry, electrical and all components accepted for providing a vehicle for this service. All manufacturing of the vehicle will be within the same manufacturing facility (in-house) to insure consistency in quality control and guarantee warranties.
32. ____ YES ____ NO. The modular body will be all aluminum, **ONE-PIECE** fully welded construction (TOP / FRONT / SIDES / REAR AND FLOOR will have single piece skins) with a minimum **15 year warranty**
33. ____ YES ____ NO. The Ambulance body as a unit will be designed and constructed to provide impact resistance. The manufacturer must provide certifications from a bonded Independent Testing Laboratory that the body being bid meets the Static Load Test code for Ambulance Body Structure, AMD Standard 001.
34. ____ YES ____ NO. The Module frame will be minimum 2 x 2 on 14" centers with extruded box tubing. Structural enhancement will include a machine rolled crowned roof 1.5", .5" gusset plates on all corners, double hollow roof extrusions 6 x 3, with webbed corner extrusions.
35. ____ YES ____ NO. Extrusions: High strength extrusions will be utilized for the roof rail perimeter frame and the vertical corner posts of the body. These extrusions will provide added material thickness at all points of stress and provide for secure interlocking of attached structures for added strength. This design also provides a unique aerodynamic appearance while maintaining very high strength and impact energy absorption. The corner extrusions incorporate the amber and red clearance lights / flush mounted.

36. YES NO. **Body Marker Lights:** A full set of D.O.T. marker lights and reflectors will be provided. In addition, each of the four module body corner caps will contain a recess mounted clearance light. These lights will shine both forward and sideways. The two front corner clearance lights must be Amber, and the rear two must be Red. These lights will be mounted in the corner cap extrusions in order to mark the outermost edges of module body at night. **Manufacturers who do not have this type of lighting must provide a single light that shines forward and one that shines sideways on each upper modular box corner.**
37. YES NO. In addition to the drip rail found in the roof extrusion, there will be a drip rail over each exterior compartment door. These drip rails will be attached in such a manner as to provide quick and easy replacement. They will NOT be riveted or screwed in place. Screwed-on drip rails are unacceptable because the likelihood of electrolysis is greatly increased.
38. YES NO. Metal tapping plates will be welded to the body or framing to secure the installation of equipment such as: cabinets, benches, partitions, cylinders, cot holder(s), etc. Self-tapping (wood/metal) screws or nails will not be used in the attachment of these components in the ambulance body. The body and panel joints will be watertight and all openings between the chassis and occupant compartment will be sealed.
39. YES NO. **Body Mounting:** There will be ten mounting points, five on each frame rail. The modular body will have full perimeter welded sill rails of ½" x 2" of 6061-T6 alloy aluminum and be attached to the vehicle utilizing 1" x 3" sill plates of the same aluminum. The modular body will be welded to the sill plates at every exposed seam. At all outrigger mounting locations a double compression, neoprene rubber isolator mount will be used to minimize chassis vibration transfer to the modular body. The modular body and sill plates will be attached to the frame rails using ¾" grade eight bolts. Any method contrary to QVM that may void the chassis warranty will not be accepted.
40. YES NO. The exterior compartments will be constructed of .090 aluminum and will be formed by a computer-controlled brake and shear to decrease the amount of welding to fully enclose the compartment. The compartment therefore, will be watertight.
41. YES NO The compartment will be welded in place to the side and floor structure. The floor of the exterior compartment will be at least 2-inches below the lower doorframe lip to help prevent equipment from falling out should a door not be closed. One exception to this may be in the oxygen compartment to make the replacement of the oxygen cylinder easier. The compartment floor will be supported from beneath with 1 x 2 .125 6061 T-6 rectangular tubing welded to the underside and floor structure.
42. YES NO. The inside of all compartments will be fully finished with a chip resistant, bacteriostatic, anti-fungal, mildew resistant sprayed on finish. All exterior compartments will be vented to displace air when the door is closed.
43. YES NO. **ENVIRONMENTAL SYSTEM:** This is to be separate from that in the cab of the vehicle -- This agency is committed to keep our staff and patients safe by technology available in today's market place. It will be incumbent for ALL primary manufacturers to provide the maximum protection from airborne pathogens and eliminate obnoxious odors that can create discomfort for staff and patients. Therefore the system in this vehicle will have a **self-contained purification unit as described below. Please**

do not bid an alternative type of Heat/AC unit if a purification type system is available. If you do not have this type of system, please indicate what you are proposing and why.

- 44. YES NO. The air conditioning and heating unit will be accessible for service through a tilt out access panel in a dedicated environmental cabinet on the bulkhead.
- 45. YES NO. **Filtration Criteria:** This system must have a *three-part filtering system* that includes an anti-microbial pre-filter of 100% Dacron fiber that destroys microorganisms. The filter will remove particles 10 microns and larger at 35% efficiency.
- 46. YES NO. The *Second stage filtration* of activated charcoal dispersed over a fiber medium to assist in the removal of odors.
- 47. YES NO. The *third stage filtration* will be a High Efficiency Particulate Air filter that removes particles of 0.3 microns and larger at 99.97% efficiency.
- 48. YES NO. This system must be built to exchange the air within the vehicle through the sealed filtering system in the module every 90 seconds. This will produce an air volume of 400 CFM. **The filters will be easily accessible for changing.**
- 49. YES NO. The air delivery and return system must be a sealed system to prevent the passage of air other than through the three stage filters. The conditioned air will pass through a multi-directional vent capable of dispersing high volumes of conditioned air at low velocity. This system must meet KKK-A-1822-F performance parameters. Testing must be certified with filters in place.
- 50. YES NO. **Thermostat:** This will be located in the action area switch panel, with a three-speed fan control. Thermostat will automatically adjust the Heat or air- conditioner to exact temperature set without making any additional changes.

MODULAR BOX CONFIGURATION: 153 X 95 X 72"—raised interior headroom. THERE WILL BE A MINIMUM OF – SIX – EXTERIOR COMPARTMENTS – WITHOUT EXCEPTION.

WE REALIZE THAT SIZES MAY VARY SOMEWHAT, HOWEVER, THE TOTAL NUMBER OF EXTERIOR COMPARTMENTS MUST BE COMPLIED WITH THE FOLLOWING MINIMUMS. PLEASE SEE THE DRAWINGS AND SCHEMATICS ENCLOSED WITH THIS BID ALONG WITH THE FOLLOWING:

- 51. YES NO Exterior Compartment "A" 65 h x 16 wide , will be forward most on the curbside of the vehicle. This section will be for medical jump kit storage with interior and exterior access.
- 52. YES NO. The interior of Compartment "A" (bulkhead reach-through) to have a SINGLE wood door with gray Lexan insert - This will be cabinet E2.

53. ____ YES ____ NO. Cabinet E1 will be constructed to accommodate a Knox Med Vault 2, with WiFi capable capacity.
54. ____ YES ____ NO. The above cabinet will have: 1) Center pull handle, 2) plunger roller latches on top and bottom, and 1) Lever latch with key on the E2 door. (See drawings)
55. ____ YES ____ NO. Exterior Compartment "A" will also have 2) adjustable shelves. Note: All exterior compartment shelves are to be mounted on rails that are adjustable by means of a threaded nut sliding into a track to allow for precise adjusting height and secure shelf placement.
56. ____ YES ____ NO. Exterior Compartment A, B2, both D and F will have hold open socket & plungers in lieu of standard overhead hold opens to allow more pass-through access to compartments.
57. ____ YES ____ NO. Door hold opens: The side entry door and all other exterior compartment door hold opens will be via overhead gas struts.
58. ____ YES ____ NO Exterior Compartment "B1" 21.5 h x 24 w x 18 deep, will be located adjacent to the backboard storage compartment, and will be for extra storage space.
59. ____ YES ____ NO. Exterior Compartment "B2" 84 h x 15.00 w x 18 deep, will be rearward most compartment on the curbside of the module. This compartment will be for vertical storage of backboards.
60. ____ YES ____ NO. The above "B2" will have an adjustable vertical divider, **AND a seat belt strap across the opening of this compartment** to hold back boards in place so they won't fall out if opening the door when the vehicle is parked on an uneven surface.
61. ____ YES ____ NO. **Strap:** Seat belt type strap to be located in compartment B2 – side to side approximately half way up. This must be made of seat belt type material with the same type of operation. This must be cut to fit the opening and have about 12" of adjustment. (Other types of "quick clip" straps will not be accepted as they do not hold).
62. ____ YES ____ NO. **Flat bar:** A flat bar aprox 3" wide will be securely mounted in the upper area of compartment B2 – side to side across the opening. This will be low enough that it will hold in back boards regardless if the strap (above) is secured or not.
63. ____ YES ____ NO. **Exterior Compartment "D" ¾ HIGH -- 61.00 x 32 w x 18 deep**, will be rearward most on the street side of the module. **This will have two (2) adjustable shelves.**
64. ____ YES ____ NO. **Exterior Compartment D will have inside/outside access to interior cabinet H.**
65. ____ YES ____ NO. **Cabinet H (Interior of compartment D – above)** will have dual wood doors with lexan inserts. C-pull handles and latch lever (no key).

66. YES NO. **Exterior Compartment "E"** 38 h x 28 w x 18 deep, will be directly behind Compartment "F" on the street side.
67. YES NO. **Exterior Compartment "E"** above will contain one fixed and one adjustable shelf, and an exterior retrieval area for sharps and infectious waste that can be dropped from inside the vehicle.
68. YES NO. **Exterior Compartment "F"**: 59 h x 19 w x 18 deep located behind driver, will be forward most compartment on the street side of the module. This compartment will be for oxygen storage.
69. YES NO. **Exterior Compartment F (Above) will have a dog leg (recessed area) a minimum of 7.5" Wide with total depth of 21.5". This will provide a place for stair chair or folding stretcher storage.**
70. YES NO. **Seamless doors:** The outer face of the door and door edges shall be formed from one sheet of 5052-H32 aluminum. The door shall be flush with the body side. The outer skin shall be 0.125 inches thick and shall be welded every six (6) inches to the inner doorframe using a minimum of one and one-half inch long bead. All corners shall be welded a minimum of two inches in each direction.
71. YES NO. The inner doorframe shall be a .125" / .250" thick 6y063-T6 aluminum extrusion. The extrusion shall extend around the entire INNER perimeter of the door skin. Where the frame corners join, each corner shall be welded to prevent pulling apart.
72. YES NO. Both patient compartment and exterior compartment doors will be provided with an extruded rubber seal system consisting of a custom hollow cell bulb gasket. The gasket will insert into an appropriately designed groove in the inner door extrusion. Glued on seals or seals that are mounted to the compartment openings are unacceptable.
73. YES NO All entry and compartment doors will be painted separately and then installed on the vehicle.
74. YES NO. All doors will be attached using minimum ¼-20 stainless steel hex bolt with stainless steel piano hinges with a pin of at least .250" in diameter. The hinge must be slotted to provide field adjustments. An ECK corrosion inhibitor will be applied to the doorframe and jamb bolt holes prior to installing the hinge.
75. YES NO. Door latches, Hinges and hardware shall include stainless steel piano hinges, latches, and hardware. All exterior patient and equipment compartment doors shall have near flush slam latches with stainless steel paddle latches with direct activated or rod controlled latches. (Cable operated latches are NOT acceptable).
76. YES NO. Door handle latches shall be TriMark OEM style 9" full floating ergonomic handle with enough space for gloved hands to operate the handle. The door handles shall be free floating with 1008 cold rolled steel mechanical components with Nitrotec treated wear components. Locks shall be a KeyOne Plus lock cylinder with a reversible key. Maximum release effort will be 35 lbs. on 2 point system. Trailing door handle mechanism shall be inset into the vertical outside edge of the trailing door. This trailing door handle shall be yellow rubber coated visibility.

77. ____ YES ____ NO. The curbside and primary rear entrance doors to by the patient compartment shall have upper and lower emergency release lever allowing the striker bolt latch to be manually released from inside the patient compartment. These emergency release levers shall be yellow rubber coated for visibility.
78. ____ YES ____ NO. Curbside entry door must be a minimum 30" WIDE.
79. ____ YES ____ NO. An "L" shaped 1" diameter (minimum) stainless steel tubing assist handle shall be installed on the inside of each patient entry door. The handle shall be securely fastened to the door structure. On the rear entry doors, the vertical axis of the handle shall measure approximately 32 inches and the horizontal axis shall measure approximately 9.5 inches. On the side entry door, the vertical axis of the handle shall measure approximately 27 inches and the horizontal axis shall measure approximately 16 inches.
80. ____ YES ____ NO. Any trailing doors shall have a patented side release paddle handle that removes the necessity of reaching inside the patient compartment door.
81. ____ YES ____ NO. All compartment doors will be constructed the same as the entry doors. To ensure continued door alignment and successful latching capabilities, all access doors must be encased by a doorjamb that is separate from the body skin and welded to the tubular body frame members. The compartment doors shall be true fit to the doorjamb, and then later installed on the body.
82. ____ YES ____ NO. **Doors:** The rear doors will be provided with **Cast Product** type hold open devices. One on each rear door – up high to allow for maximum door opening.
83. ____ YES ____ NO. **Door Panels:** The interior surface of the patient entry doors will be made of **brushed aluminum** to provide a durable finish. The door panels will be designed to allow removal without disturbing the door latching hardware. Door panels must be flush fitting NOT overlay. Doors using pliable materials such as lightweight plastic or upholstery are prohibited due to greater risk of contamination by blood borne pathogens through stitching or when cut or torn.
84. ____ YES ____ NO. The center of all interior entry door panels (minimum 7" wide) will be red/white reflective material – to add to visibility of the vehicle when on scene.
85. ____ YES ____ NO. Exterior compartment door panels (interiors of compartment doors) will be made of DIAMOND PLATE aluminum – to provide a durable finish.
86. ____ YES ____ NO. **Hidden "Unlock" switch:** A stealth switch will be located in the front grille area (passenger side) to **unlock the front cab doors only.**
87. ____ YES ____ NO. Compartment and entry doors shall be painted separately from the modular body. The doors shall then be installed on the painted module. An ECK corrosion inhibitor shall be applied to the doorframe and jamb painted extrusion prior to installing the doors to provide a barrier between the hinge and the paint.
88. ____ YES ____ NO. **Exterior compartment lighting:** LED – detailed later

89. ____ YES ____ NO. **Curbside entry door window:** will have upper sliding window with screen with a minimum dimension of 19.5" x 26.5" with **privacy glass**.
90. ____ YES ____ NO. A door open indicator light or compartment ajar light will be automatically activated on the driver's console when any exterior door or compartment door is opened.
91. ____ YES ____ NO. **Rear door Windows:** will have upper fixed windows with a minimum dimension of: 22.5" x 13.5" with **privacy glass**.
92. ____ YES ____ NO. Floor: Will consist of a minimum of 2 x 2 x .125 inch structural box section aluminum. The finished floor assembly will be securely welded to the wall structures and exterior compartments. All critical load points will be reinforced with 1/4 inch x 3 x 4 gusset plates. Above the floor channels, there will be an aluminum moisture shield a minimum of .050 inches thick.
93. ____ YES ____ NO. **Additional Structural Enhancement:** In addition to previous specifications, there will be -- four (4) 2 x 2 $\frac{1}{4}$ " structural box section aluminum that will run 94" ---WITH NO SPLICES --across the modular floor structure and under the exterior compartments (horizontally). One at the front of the module and one at the rear of the module, and one in front and behind the dual wheels (vertically). These will run completely across the modular floor structure, and up side walls – and add significantly to the structural integrity of the modular box and compartment.
94. ____ YES ____ NO. The top floor of seven-ply three quarter inch marine grade plywood. This is sanded on both sides with no voids. The plywood will be marine resin coated prior to installation. The board is to be securely anchored to the moisture shield and floor sub frame with $\frac{1}{4}$ " UNF machine X 2-1/2-inch screws. The floor must extend the FULL LENGTH AND WIDTH (one piece) of the patient compartment including space under the cabinets.
95. ____ YES ____ NO. The entire underside of the modular body will be sealed. All hollow structural shapes or cavities will be sealed with approved expandable foam insulation.
96. ____ YES ____ NO. **Rear Step Bumper:** The heavy-duty reinforced rear step bumper will be constructed of 10 gauge steel "C" structural channel and aluminum diamond plate. The center step of the bumper will be designed to allow it to "flip" up out of the way for easier loading of the patient. The center flip-up step **will be made of a grip strut or gator grip (non slip) surface**.
97. ____ YES ____ NO. The rear bumper assembly will have I-beam constructed skid plates with tow eyes mounted as part of the frame of the bumper. Three-inch red marker lights will be on the street side and curbside of the bumper assembly. These lights will be a sealed unit and the connectors protected with an adhesive heat shrink. The lights will flash with the turn signals and will illuminate with the vehicle head light control.
98. ____ YES ____ NO. There will be one-half inch clearance between the bumper assembly and the rear of the modular body to allow water drainage and inhibit water collection. Above the rear bumper and below the rear doors, there will be a full-length riser of aluminum diamond plate for a protective kick

panel. This panel will be securely fastened with ceramic-coated stainless steel screws to inhibit rust that could result from electrolysis and will run the full rear width of the module. Pop rivets are NOT acceptable.

99. YES NO. **Stone guards** for front side of modular box (lower corners) will be a minimum of **28-inches** high to protect the lower box from damage.
100. YES NO. **Fender Flares:** Black Rubber will be provided around the rear wheel well openings to provide protection for wheel wash. An ECK corrosion inhibitor shall be applied to the mounting holes prior to installation.
101. YES NO. **Running Boards: diamond-plate** on both sides of the ambulance to assist the attendants in boarding the vehicle, and to protect the vehicle. Ford OEM running boards are NOT acceptable. We want diamond-plate running boards that are of high quality. **These will have a grip strut or gator grip (non-slip) surface.**
102. YES NO. **Running board lights:** LED lights will illuminate the running boards located under driver and passenger entry doors.
103. YES NO. This vehicle will also be provided with a skirt line / rub rail. The lower rub rails shall be extruded aluminum 2" wide x 1" high with 45 degree beveled ends. The extrusion will accept an extruded black rubber insert. The extruded rubber insert shall have a channel designed to accept a 1.125 vinyl strip on the outer most surface of the extruded rubber insert. This vinyl strip will have **3M reflective tape** applied to the outer exposed surface. The extruded rub rails shall be installed on lower sides of the modular body using stainless steel fasteners and rubber spacers between the rail and body.
104. YES NO. **Mud Flaps: front & rear.**
105. YES NO. **"Super Loop" cast step** to be located below curbside entry door.
106. YES NO. **Exterior handle to be located by curbside entry door** – painted to match the vehicle.
107. YES NO **Paint:** Cab and module Ford Polar white - with SIKKENS paint system: to match Dupont Lime Yellow # 7744. A Center belt strip with QRS complex will be 3-M white reflective. Vehicle will match paint scheme of current vehicles.
108. YES NO. Roof Star of Life - to be installed on vehicle. **Lettering for Homer ambulance** to be installed to match other vehicles in service prior to delivery.
109. YES NO. **Wiring:** Will be copper and conform to all SAE J1292 requirements and will have type GXL "cross linked" high temperature polyethylene or better insulation rated to 300 degrees Fahrenheit. All wiring carrying a load of more than 5 amperes will be of the same size as the "power" wire required for the circuit.
110. YES NO. Wires shall be permanently heat ink embossed with both number and function codes. The function code shall be the descriptive name of the circuit served. The number code shall be the exact purpose of that circuit. The function and number code shall be embossed at a minimum of four-inch intervals the entire length of the wire terminating into all switch and control panels. This number code

shall be completely referenced in a detailed wiring schematic provided with the vehicle. The use of multi-conductor cable must be function and color coded and shown on the wiring diagram.

111. YES NO. All added wiring will be located in accessible, enclosed, and protected locations and kept at least six inches away from the exhaust system components. Electrical wiring and components will not terminate in the oxygen storage compartment except for the oxygen-controlled solenoid, and compartment light. Wiring necessarily passing through an oxygen compartment will be routed in metal conduit.
112. YES NO. All conduits, looms and wiring will be secured to the body or frame with insulated metal cable straps in order to prevent sagging and movement which results in chafing, pinching, snagging, or any other damage. All apertures on the vehicle will be properly grommeted and sealed for passing wiring and conform to SAE 1292.
113. YES NO. Circuit connections will be made on screen printed circuit boards with all circuits fully numbered and labeled. This circuit board will have visual on-board self-diagnostic lights to indicate switching circuits, power in and power out for relays. This on-board diagnostics system will provide *at-a-glance* troubleshooting and easy replacement of relays.
114. YES NO. A service loop of wire or harness, per KKK-A-1822-F specifications, shall be provided at all electrical components, terminals, and connection points. All relays shall be mounted for ease of serviceability. All high current diodes greater than 5 amps shall be heat sink mounted. To provide the optimum circuit “overload” protection, the electrical system’s main circuit board shall allow for the use of stud type automatic reset pole breakers. One spare 15-amp circuit breaker shall be provided for future use.
115. YES NO. All wiring between the cab and module shall be connected to a terminal strip/s or block/s or use multi-pin connectors on the electrical component panel and shall provide for future module replacement. All connectors and terminals provided shall comply with SAE J163, J561, or J928 as applicable
116. YES NO. Connections for breakers on the circuit board will utilize binding post screws for positive mechanical connections. To minimize the potential for wiring shorts and voltage drops, all wiring terminals will be tin plated, annealed, EPT copper with nylon high heat insulation. The terminal wires will be machine crimped.
117. YES NO. No splices shall be permitted except for connection of “pig-tail” devices. Butt splices are permitted for connection of “pig-tail” devices. The use of IDC (Insulation Displacement Connector) connectors. i.e.: “3M Scotchlok” type fasteners are NOT acceptable.
118. YES NO. The instrument console will house the switching panel and radio installation. The console will incorporate full size rocker switches, status indicator lamps, throttle control, and volt Gauge.
119. YES NO. All switches and controls for the patient compartment including those for the heat/air unit will be located above the action area.

120. ____ YES ____ NO. **Antenna Coax:** Antenna coax will include Motorola mounts on the roof of the vehicle with (6 foot end wires) located (THREE) as follows: 1) behind driver seat 1) in circuit board area. 1) exterior compartment E wall 1 up high.
121. ____ YES ____ NO. **Cigar style outlets with Diode protection:** a 12-volt cigar style outlet will be installed in the action area panel.
122. ____ YES ____ NO. **Additional 12-volt cigar style outlets – with diode protection:** will be located in 1) in right front bulkhead compartment. 1) Pass side of front console.
123. ____ YES ____ NO. **Outlet – Dual USB Port, 5vdc, 2.1 amp** located side of center console in cab.
124. ____ YES ____ NO. **Power source, 12 VDC, 20A, Ignition/shoreline hot.** 1) prewire coil and tagged in circuit board area, 1) prewire coil and tagged behind driver seat base.
125. ____ YES ____ NO. **Shoreline: 20 amps** Located on the face of the module.
126. ____ YES ____ NO. **Shoreline Indicator Light:** located above shoreline.
127. ____ YES ____ NO. **Outlets - 110 VAC, shoreline / inverter powered - medical grade with GFI protection:** 1) in action area, 1) curbside wall ** must be located 6-inches down from the overhead splint cabinet within 3-feet of the O2 outlet *** (inverter AND shoreline power).
128. ____ YES ____ NO. **Outlets - 110 VAC, shoreline powered ONLY - medical grade with GFI protection:** 1) Inside of right front bulkhead compartment
129. ____ YES ____ NO. **Outlets - 110 VAC, inverter/ shoreline powered - medical grade with GFI protection:** and 1) in the telemetry area, 1) in exterior compartment D wall #1 up high.
130. ____ YES ____ NO. **Outlets - 110 VAC, inverter/ shoreline powered - medical grade with GFI protection:** and 1) behind passenger seat in cab.
131. ____ YES ____ NO. **Blockheater, engine with switch** wired to shoreline. Switch located on side of console to turn off during the summer.
132. ____ YES ____ NO. **INVERTER/ BATTERY CONDITIONER:** Vanner 20-1050 CUL combination 1050 watt inverter / 55-10 amp battery charger/conditioner.
133. ____ YES ____ NO. **Driving Lights/ Rigid Industries 9153 SR-Q2 LED.** These are to be wired thru the headlight dimmer switch. To work on high beam only.
134. ____ YES ____ NO. **Volt Meter:** The vehicle shall include a Datcon analog voltmeter. It shall be located in the front switch console.
135. ____ YES ____ NO. **Emergency Master switch – Non sequencer.**

136. YES NO. **Siren Whelen 295 HFSC9 ... dual tone style.**
137. YES NO. Siren will be wired to switch through the OEM horn ring.
138. YES NO. **Two (2) 100-Watt Siren speakers.** Cast product SAD P4314 mounted thru front bumper.
139. YES NO. **Back up alarm** with auto-reset cut off switch will activate when the vehicle is shifted into reverse. The alarm will reset and engage when the vehicle is placed in reverse again. The device must meet OSHA and SAE J994 requirements and be rated (SAE) for Type C or B.

Lighting Package: To include the following --

140. YES NO. **Mounting of all Warning / scene / load lights** will incorporate the use of plastic screw grommets inserted into pre-drilled holes. This process will securely mount the lights and prevent the contact of dissimilar metals i.e. aluminum side skins and mounting screws
141. YES NO. **Light Bar: NONE--** We desire **seven (7)** 900 series Super LED lights across the front of the modular box, in lieu of the standard light bar –
142. YES NO. Front Modular Box warning lights: **Six – RED – and one center Clear - Whelen Super LED 900 series lights.** Mounted equally spaced across the front of the modular box. From left to right Red, Red, Red, Clear, Red, Red, Red. Wired thru lights internal flasher.
143. YES NO. Front four (4) 900 series super LED lights to be wired to a separate switch labeled “light bar”. **These will be the two (RED) lights – on either side of the center front clear light.** These are to be wired to flash “Action Scan” thru lights internal flasher.
144. YES NO. **Warning lights:** 2) each side 2) rear **Whelen 900 series – SUPER LED - RED.** (2) Rear mounted in the upper outer most corners of the rear of the ambulance box. RED. These are to be wired to flash “Action Scan” thru lights internal flasher.
145. YES NO. **Warning lights** the two red lights on the also on rear will be mounted to be seen through the upper rear door windows when the doors are opened. Wired thru lights internal flasher, action scan.
146. YES NO. **Center front:** One / Whelen 900 SUPER LED series. Clear.
147. YES NO. **Center Rear:** One / Whelen **900 SUPER LED series.** Amber. Located above rear doors. Wired thru lights internal flasher.

148. ____ YES ____ NO. **Curbside Entry Door – warning light: Whelen LED M2 light** – located on the interior upper/outer corner of the curbside entry door. This will operate when the vehicle is turned on and will flash when door is opened. To be wired through the ignition switch
149. ____ YES ____ NO. **Grille lights:** Whelen M4 series, Red, Red lens, 2) in upper grille area. Wired through lights internal flasher.
150. ____ YES ____ NO. **Intersection lights:** Whelen M2 series, Red, Red lens, 2) in front quarter panel area. Wired through the lights internal flasher.
151. ____ YES ____ NO. **Corner Cap clearance Lights:** Corner caps 2 red, 2 amber as detailed previously in the corner cap extrusions. The primary manufacturer shall install DOT marker lights at the highest point of the vehicle. The marker lights shall be visible 360 degrees around the entire vehicle. Each separately mounted corner marker light shall be recessed and visible 180 degrees. This marker light lens cover shall be tilted upward on a 45-degree angle to be visible above the horizontal plane for 360 degrees. These measures will insure the vehicle will be visible in low light conditions. Amber lenses shall be installed on the front corners and red lenses on the rear corners. **The light shall be LED with the option of flashing at high intensity when activated through a separate switch** (switch) located in the cab console. If vendor does not have a single light for this option, two lights will be required – one on each side of each upper box corner.
152. ____ YES ____ NO. **Marker lights RED LED** on rear as clearance lights.
153. ____ YES ____ NO. **Scene lights:** Whelen 9H, 8-32 degree- **two** (2) on each side. The side scene lights will be controlled from the cab console and be independently switched.
154. ____ YES ____ NO. **Curbside scene lights to turn on** when C/S entry door is opened.
155. ____ YES ____ NO. **Reverse Option: Rearward (scene light)** 1- one light on each side – wired to come on when the vehicle is placed in reverse.
156. ____ YES ____ NO. **Load lights: Whelen 9H, - two (2) 8-32 degree** on rear. The two loading lights will illuminate the area surrounding the back loading and unloading doors. These lights will activate automatically when the rear doors are open regardless of the switch position in the cab console. The rear load lights will be incorporated with the FMVSS backup lighting system and **turn on when the vehicle is placed in reverse.**
157. ____ YES ____ NO. **Wigwag lights:** Whelen M4 series, Clear/Clear – 2) located in lower grille area. Light on driver’s side to alternate flash with light on passenger side. Flash rate: double flash, using internal flasher. Wired to work in drive / off in park.
158. ____ YES ____ NO. **Taillights:** Trucklite, Rectangle Red/Clear / Amber. **LED style lights will be mounted in the rear kickplate.** Two lights will be red taillights, two clear back up lights, and two amber turn/hazard lights. One each will be installed passenger side and drivers side of the rear kick plate

159. YES NO. **Taillights** – - In addition to those listed above: Whelen taillight package. Stop/tail lights shall be LED with a minimum of 32 square inches of lighted surface area. Brake lights shall flash with a brake alert flash before they steady burn. The turn signal shall be a 5” LED arrow shaped design with a sequenced flash. The backup lights shall be Halogen. All three lights per side shall be in a common housing. A waterproof connection to the OEM tail light harness is required.
160. YES NO. **Turn signal guide arrow** – Whelen 6LED series 1) SET mounted on front of the vehicle below the red 900 LED lights.
161. YES NO. License plate light - **LED**.

MODULE INTERIOR:

162. YES NO. The interior patient compartment headliner (ceiling) will be flat, smooth, and white in color with no visible seams. **The use of non-hardened material for the headliner is NOT acceptable due to the risk of cutting and bio fluid infiltration that results in an area that cannot be disinfected.** The headliner will house the main wiring harness service raceway; overhead grab rail, and overhead lights. All hardware attached through the headliner will be tapped into an aluminum plate of 6061 T-6 alloy.
163. YES NO Patient compartment dome lighting will include seven **(7) dual intensity LED lights**. There will be four lights located over the primary patient area and three over the squad bench. These will be mounted into the patient compartment headliner and protrude minimally into the patient compartment. The lights must be screwed through tapping plates embedded in the headliner.
164. YES NO. Overhead lights will have high and low levels of intensity. The attendant will be able to control the level of light via switches in the action area control panel. The four lights over the primary patient will illuminate on the low setting when the side modular or rear modular doors are open.
165. YES NO. **Step well light LED style** – located inside vehicle in curbside step well area. This will turn on when the door is opened and light the entry step.
166. YES NO. **Action area light:** – Intertek ZY-PIR38 12V LED in action area with integral switch.
167. YES NO. **Spotlight:** a minimum of 100,000-candle power lamp. It will be hard wired into the vehicle 12-volt system and stowed in the cab area accessible to the driver and passenger.
168. YES NO. **Exterior compartment lights:** Lighting for exterior storage compartments will be accomplished utilizing low wattage, factory sealed minimum **2-inch Round LED style** recess mounted lights activated by magnetic switches. These lights will be located inside the compartment and not on the doors themselves. 2) located in right front compartment (A) 1-in upper area 1-in lower area, 1- between shelves, and 1-in compartment B1, B2, 3- in compartment D between shelf areas and , 1) in compartment E, and F.

169. ____ YES ____ NO. **Light with flex shaft**, Little Lite 12-inch shaft, to be located on the side of the front console.
170. ____ YES ____ NO. **Checkout timer**: There will be a momentary switch located inside the curbside entry door. When depressed lights and functions of the modular box will come on for 5-15 minutes.
171. ____ YES ____ NO. **CLOCK: Digital "Intellitec" brand with count-down timer, – located above action area.**
172. **Suction Pump**: The vehicle will be supplied with an on-board vacuum aspirator, which will be mounted above the action area tray. The vacuum will be via an installed volt DC suction pump. The pump is to be located in the interior of the vehicle. The on/off switch is to be located in the attendant console, with vacuum port located in the action area...
173. ____ YES ____ NO. **Insulation**: The primary manufacturer will supply an insulating material that is non-flammable with a Class A, Class 1 fire rating. It will be certified to meet the smoke and flammability requirements of FMVSS 302. The exposed walls of the exterior compartments and wheel wells that intrude into the interior of the modular will be covered with reflective insulating material with a value of R-14. The side, front, rear, walls, as well as the ceiling will be insulated with three-inch thick temperature rated un-faced fiberglass with a value of R-11
174. ____ YES ____ NO. **Overhead Grab rail**: This will run the full length of the vehicle mounted to the vehicle structure.
175. ____ YES ____ NO. **Grab Handles**: There will be the "L" shaped style grab handles on the interior of the module doors.
176. ____ YES ____ NO. **Oxygen Rack**: Oxygen "M or H" style rack for large oxygen tanks will be located in the left front compartment and will incorporate **(3) ratchet style straps**.
177. ____ YES ____ NO. **Oxygen system**: with Ohio style outlets. **Oxygen ports: 2)** In action area and **1)** at the head of the squad bench
178. ____ YES ____ NO **Oxygen regulators**: Two - with Flowmeters for interior oxygen ports.
179. ____ YES ____ NO. **Oxygen regulator**: Large 50 psi oxygen regulator.
180. ____ YES ____ NO. **Suction system**: will incorporate a **SSCOR system** with Model #22000 regulator. With a disposable SSCOR canister and holder. Model # 22002. (METAL bracket) Shipped loose will be four (4) additional disposable SSCOR type canisters
181. ____ YES ____ NO. **I. V. Holders/ Perko**: There will be two IV holders, one located streetside, and another located curbside up toward ceiling level. These will have a hook and Velcro for stabilizing the bags.

182. ____ YES ____ NO. **Interior Surfaces:** All vertical edges of cabinets shall be of an aluminum extrusion with a ¼-inch radius designed to free the interior of the patient’s compartment of all sharp edges or projections. The face and inside of the cabinet shall be covered by a commercial grade laminate and adhered to the cabinet face by a high quality poly vinyl adhesive using a thermal press application. The wood, adhesive, and laminate shall be pressed together at 200 degrees for four minutes in a thermal platen press. There shall be no voids of the adhesive between the laminate and the cabinet surfaces.
183. ____ YES ____ NO. **Cabinet Construction:** The interior cabinets, squad bench assembly, shelves, and doors shall be constructed of Featherply plywood; due to the product’s ability to be customized to fulfill the needs of this agency. The additional acoustical and thermal insulation properties, repair ability, and the safety factor of not producing sharp fragments or shards in the event of a serious collision. The thickness of the finished panels used to construct the cabinets, shelves and doors shall be ¾ inches including mica and adhesive.
184. ____ YES ____ NO. The cabinet shall be constructed using 8 mm dowels placed no farther than 32mm apart. The dowels shall be hardwood and pre-glued.
185. ____ YES ____ NO. The doors on the upper cabinets shall be surface mounted with European hinges and 3mm edge banding. The doors on the center and lower cabinets shall be flush mounted using continuous stainless steel piano hinge and a 3mm edge banding. All doors and cabinet openings shall be covered with a 3mm edge banding with radius edges.
186. ____ YES ____ NO. The counter top of the attendant’s Action area(s) and back of the CPR seating area if applicable will be covered with a poured acrylic material **or Corion** , with a one-inch lip around the tray. This is mandatory to facilitate cleaning and prevent body fluids from settling into the edges. This will be permanently fixed and sealed around the edges.
187. ____ YES ____ NO. **Patient compartment floor covering:** a heavy-duty material that will be impervious to fluids. The flooring shall be glued to the floor using an adhesive compound. The flooring shall be “Johnsonite, Optima sidewalk, #866 .” The floor shall be designed to roll up the side of the streetside and bulkhead cabinets and squad bench. This installation method eliminates the visible floor trim that can collect contaminants and allow body fluids to seep into the cab or floor structure.
188. ____ YES ____ NO. The roll up of the floor covering will also form a threshold between the cab and patient compartment to prevent fluids from the patient compartment from contaminating the cab area.
189. ____ YES ____ NO **Attendant Seat: EVS style high back captain’s chair WITH CHILD SEAT - AND 3-point seat belt.** This will also have SEAMLESS upholstery.
190. ____ YES ____ NO. Attendant Seat BASE: EVS metal seat base with Diamond plate door - with latch lever.
191. ____ YES ____ NO. **Seats & upholstery:** Will be covered with a minimum of 32-ounce nylon reinforced commercial vinyl material. All cushions and upholstery will be vacu-molded type application with no seams to prevent accumulation of bacteria forming matter and aid in disinfecting. All will be impervious to soap, water, and disinfectants. Due to OSHA requirements and blood borne pathogens,

cushions using seams, stitching or beaded edging will not be acceptable. Squad bench and CPR seat cushions will be removable to clean the entire under surface.

192. YES NO. **Seat Belts and Patient restraints:** Located at squad bench and/or CPR seating area. These will be bolted into the structural frame with retractors built into formed housings that will keep the seat belts up out of the way until they are needed. Patient restraints on squad bench for securing supine patient, with the ability to seat belt two **(2) personnel on the squad bench with 6-point seat belts.**
193. YES NO. **Glove box Cabinet over Curbside door** – for location of 3- glove boxes. With hinged Lexan cover for restocking.
194. YES NO. The squad bench lid will be attached to the squad bench assembly via a stainless steel piano hinge the entire length of the bench. The lid will be a **SINGLE PIECE**. The squad bench will be equipped with a locking device. This device will secure the squad bench lid to prevent accidental opening during a rollover. The locking device will automatically secure the lid upon closing without any additional action by the unit personnel.
195. YES NO. **Squad bench hold opens:** minimum 60# gas strut.
196. YES NO. **Trash Containers: 1-Biohazardous waste and 1-sharps disposal** in will be located at the **head of the squad bench**. Both waste drop areas will have flip-up covers. The containers will be located in a motion stable bin with lock.
197. YES NO. **Cabinet: Installed over squad bench 7" deep minimum,** to run the length of the squad bench. This is to be padded around edges to prevent injury
198. YES NO. This vehicle will have a **street side "C. P. R." Seat option**. The back of the **CPR seat will be fixed.**
199. YES NO. **This CPR seat to have a 6-point seat belt system.**
200. YES NO. **Cabinet "M" located above the Telemetry area will be approx. 7.25 inches** high and same depth of other streetside cabinets. This will allow for monitoring equipment to be placed in the telemetry area
201. YES NO. **Telemetry area:** There will also be an opened area for monitoring equipment on the rearward side of the CPR seating area.

UPPER STREETSIDE CABINETS:

202. YES NO. Cabinet J/K (upper streetside rearward) will be one long cabinet area approx 45" wide -- with gray lexan sliders that cover the entire opening.

218. YES NO. IV Warmer, Smithworks, mounted in cabinet _____". To run off of 110 power installed in the vehicle.
219. YES NO. An owner's manual with information on the modular box and components must be delivered with the vehicle. **With a set of electrical schematics.**
220. YES NO. A bottle of touch-up paint (one for each color of the vehicle) will be included with the vehicle when delivered.
221. YES NO. Since this vehicle may be used under adverse conditions, it is felt by this agency that it is important to reduce our future liability exposure. Therefore we feel it necessary for the ambulance vendor to maintain a liability insurance policy on this vehicle in the minimum amount of **eleven million dollars \$11,000,000**. Certification must be enclosed with bid package.
222. YES NO. **DELIVERY: The price of this vehicle will include F.O.B. to HOMER, ALASKA.**
223. YES NO. **Final inspection / factory training- Two representatives from Homer to fly to factory for final inspection and mechanical/electrical training of ambulance prior to delivery. Inspection to include airline ticket, motel rooms, and meals. Inspection must include two (2) days training for mechanic -- bidder must be at the factory for training and inspection.**
224. YES NO. Person or persons delivering the unit must be a licensed representative of the firm bidding and must be a certified service technician of the represented dealership. They must be willing to give orientation and training on the vehicle to the service and be willing to spend up to 24-hours in the area if necessary.
225. YES NO. If awarded the bid, dealer will be willing to provide follow-up service including parts for repairs, etc., as may be needed by this service to maintain the vehicle after it is put into operation.
226. YES NO. A copy of proposed drawings of bidder's vehicle will be submitted with this bid. (Note modular box dimensions and bid as requested – please conform to items requested) Copy of drawings must be enclosed with the bid package.
227. To insure after delivery technical service, support and parts availability, we certify and will offer service to you per the following:
-
-
-

228. Ambulance Manufacturer must have a 24-hour 800-service hotline for parts and service if dealer is unavailable to provide service at any time.

Parts hotline number: _____

229. _____ YES _____ NO. Bidder must submit with bid a list of a minimum of 10 customers including customers within this state who have purchased a vehicle of this type during the past 2 years, along with: Names, Contact Person, and Telephone Number for reference purposes. Ten references must be enclosed with bid package.

PLEASE PRICE THE FOLLOWING ITEM SEPARATELY FROM BID:

230. _____ \$ Ferno Washington Power Flexx cot with IV pole, and O2 holder.

231. _____ \$ **Ferno Washington 185 Stat Trac Cot fastening system**

232. _____ \$ **Stryker PowerPro Gurny with IV pole and foot oxygen holder.**

233. _____ \$ **Stryker Floor mounting system (to be released Spring of 2016).**

TO QUALIFY FOR AWARD -

COPIES of the following Minimum items - MUST ACCOMPANY BIDS –

(Please indicate with "X" or check mark if items are included with bid).

Bids not meeting these - minimum requirements will be rejected:

Ambulance Manufacturer name: _____

Ambulance manufacturer number of years in operation: _____

Bidder / Dealer Name: _____

Bidder/ Dealer number of years as an authorized distributor of vehicle bid: _____

1. _____ Bidders **Alaska Business license**
2. _____ Copy of Bidder's **Motor Vehicle dealer BOND.**
3. _____ Manufacturer's Drawings of vehicle bid
4. _____ List of Exceptions to bid (if any).

5. _____ Dealer Information – Including: Dealer location – number of years selling vehicles bid –
6. _____ References – 10 vehicles sold within last 3 years (Must include full-height walk-through option).
7. _____ Ambulance manufacturer information – Including: Location – number of years selling vehicles bid.
8. _____ Ford QVM Certification, if using Ford chassis
9. _____ Static Load Testing
10. _____ SLED Testing
11. _____ Manufacturer ISO 9001-:2000 certification
12. _____ Copy of manufacturer’s Liability Insurance policy
13. _____ Copy of Ambulance Warranties as requested.
14. _____ Modular conversion Heat/AC information

End of Bid Specifications

CITY OF HOMER

DATE OF BID: _____

BIDDER / DEALER NAME: _____

SIGNED BY: _____
printed name/ title

PHONE: _____ **FAX:** _____

e-mail: _____

ADDRESS: _____
street city state / zip

AMBULANCE MANUFACTURER: _____

LOCATION: _____

YEARS MANUFACTURING AMBULANCES: _____

Chassis : _____

Ambulance Size / style*: _____

AMBULANCE BID PRICE: _____

Delivery time: _____

*Note: Ambulance bid must be of the size and style requested by these specifications or it will be rejected.

Priced separately:

– Ferno Washington Power Flexx cot with IV pole, and O2 holder: _____