

SYRACUSE CITY FIRE DEPARTMENT

Request for Proposal (RFP)

For: TYPE I AMBULANCE

Introduction:

In order to carry out the responsibility of providing its citizens with the highest practical level of emergency medical services, Syracuse City Fire Department, hereinafter referenced as (City) is seeking proposals from qualified providers for a new ambulance as part of our Emergency Medical Services (EMS) fleet.

City Contact Information:

For purchasing questions:

Stephen Marshall Purchasing Manager

Phone: 801-614-9621

Email: smarshall@syracuseut.com

For questions regarding this RFP:

Eric Froerer, Fire Chief

Phone: 801-614-9607

Email: efroerer@syracuseut.com

Questions regarding this RFP should be directed to Chief Froerer no later than January 2, 2015. All questions and answers will be posted on the web site with the RFP.

Key Dates, Addresses and Instructions:

Proposal Requirements:

- Each bidder is required to adhere to the entire scope of these specifications.
- Syracuse City reserves the right to have discussions with and/or negotiate with proposers prior to the final selection.

- Proposals must be submitted on or before the Due Date. Proposals received after the Due Date will not be considered, and will be returned unopened to the proposer(s).
- Clearly label the proposal on the outside of the sealed envelope: Type 1 Ambulance and identify the individual or organization submitting the proposal.
- Please submit two (2) copies of your proposal for evaluation.
- The City will not accept proposals via facsimile (FAX).
- The City reserves the right to cancel this RFP, to reject any or all proposals, to waive any formality or technicality, or to accept proposals deemed to be in the best interests of the City.
- Preparation and submittal of proposals are at the SOLE RISK and EXPENSE of the proposer. The City does not guarantee that any of the proposals shall be selected.

Proposals must be delivered to:

Syracuse City Hall, 1979 West 1900 South, Syracuse, Utah 84075

City Recorder's Office

Cassie Brown, City Recorder

DUE DATE: January 5, 2015

No later than 10:00 a.m. Mountain Daylight Time (MDT)

Opening of Proposals

The City Recorder or designee will receive and register proposals. On the Due Date and Time, proposals shall be opened, identifying only the names of the proposers.

Proposals, modifications, or corrections received after 10:00am (MDT) on the Due Date will be considered late and will not be opened.

If only one proposal is received in response to the RFP or if all proposals submitted are rejected, the purchasing manager, in consultation with the Fire Department, may re-solicit this RFP for the purpose of obtaining additional proposals.

Proposal Validity Time

Proposals must be valid for at least thirty (30) days.

TYPE-1 AMBULANCE SPECIFICATIONS

1. **Purpose:** The purpose of these specifications as written is to make comparisons of options, price, quality, performance, customer service, and any other factors deemed to be of importance by the Syracuse Fire Department to aid in the selection of a manufacturer to build our new ambulance. Bidders are required to include a full set of drawings with their bid. A detailed written explanation of any exceptions to these specifications must also accompany each bid. Any bidder not meeting all of the bidding requirements, according to the opinion of the Syracuse Fire Department, will be considered incomplete, and may be excluded from the bidding process.
2. **Exceptions:** All exceptions to these specifications shall be described in detail, including an explanation of how the exception is equal or superior. Any bid received without a document listing the exceptions to these specifications will be required to meet every detail regardless of cost to the bidder. Each bid shall include a separate document with a list of exceptions to this specification. Exceptions shall be numbered, shall reference the specification to which they take exception, and shall include a thorough description of the exception. A separate document shall also be included with individual pricing for each of the bid options at the end of this specification.
3. **Award of Contract and Right to Reject:** The award of contract will take into consideration all factors deemed to be of importance to the Syracuse Fire Department. We reserve the right to reject any or all proposals if deemed to be in the best interest of Syracuse City. We reserve the right to select the best option according to the opinion of the Syracuse Fire department. We will not be bound to accept the lowest bidder should we deem a different proposal to be to be more beneficial to the City. We reserve the right to determine which exceptions to these specifications are acceptable, and which ones are not. We also reserve the right to negotiate changes with the winning bidder.
4. **Standards:** Each bidder must, at a minimum, meet all current editions of FMVSS (Federal Motor Vehicle Safety Standards), SAE, KKK-A-1822, any certification standards offered by the chassis manufacturer to the ambulance manufacturer, and any other mandated and/or voluntary ambulance design standards in effect at the date of proposal submission.

The basis for the initial configuration of the ambulance will be the current KKK-A-1822 Federal Specification for ambulances. Copies of the latest edition of Federal KKK testing results from an ISO 17025 certified 3rd party testing laboratory must be included with every bid.

These standards and specifications are in no way written to restrict or encourage any single specific ambulance manufacturer. However, bids will only be accepted from manufacturers that produce and assemble complete ambulances within the continental United States.

Failure to meet any portion of these specifications may result in rejection of the bid.

5. **Qualification of bidder:** Each bidder must be an authorized distributor for the product that he/she offers. Each bidder shall provide the following information as part of their bid packet:
 1. A statement showing the location and capabilities of the factory where the ambulance is to be manufactured.
 2. A statement indicating the number of years that they have been manufacturing the specific type of apparatus that they are proposing to provide.
 3. A statement of the number of years that they have been acting as an authorized dealer for the manufacturer.
 4. Proof of licensing as an authorized dealer of new apparatus.
 5. A statement that the complete apparatus with the exception of the cab and chassis shall be constructed by one manufacturer.
 6. Proof that the bidder holds the current and correct licenses to do business in the State of Utah. This shall include an automotive dealer license and a Utah dealer bond.
 7. Proof of current required licensing as an ambulance manufacturer for the factory.
 8. A copy of a Motor Vehicle Bond in the minimum amount of \$75,000.00 required by the State of Utah Motor Vehicle Dealer Division.
 9. Utah Motor Vehicle Department of Commerce Franchise Registration certificate Number.
6. **Warranties:** Every bid shall include a detailed description of the manufacturer's warranty including all coverages and omissions. All warranties will, at a minimum, provide 12 months and 12,000 miles coverage on the entire vehicle which will cover any and all defective parts or components either functional or cosmetic. All costs to correct any deficiency will be borne by the successful bidder. Routine maintenance items (i.e. light bulbs, brake pads, wiper blades, etc.) need not be covered by this warranty. A sample warranty shall be included with each bid.

The structural integrity of the modular body shall carry a warranty of no less than 15 years. This warranty shall be included as a part of the bid.

The manufacturer shall provide a manufacturer's converter electrical system warranty which shall cover the electrical components of the electrical system for the lifetime of the vehicle. Routine maintenance items (i.e. light bulbs, etc.) need not be covered under this warranty. A sample of the electrical system warranty shall be included with each bid.

The manufacture and integration of the ambulance manufacturer's components to the cab and chassis shall in no way negate nor diminish the warranty of the cab and chassis from its manufacturer.

7. **Warranty Service response:** The successful bidder must have a factory authorized service center within 50 miles of the Syracuse Fire Department or allow, and pay for, all warranty work to be performed by any facility chosen by the Syracuse Fire Department. Any warranty work performed on the apparatus, with the exception of warranty work on the cab and chassis, will be performed at the Syracuse Fire Department if possible. The successful bidder shall be responsible for all costs (i.e. travel, hotel, etc.) incurred to perform the work on-site.
8. **Pre-Build Meeting:** The winning bidder shall agree to have a representative attend a pre-build meeting to be held at the Syracuse Fire Department. The representative shall be willing to spend up to 48 hours in the area for this meeting. Interior color schemes and final location for multiple items will be determined at this meeting.
9. **Reasonable Changes:** The successful bidder shall agree to work with the Syracuse Fire Department to successfully implement any changes that may be desired between the time of this bid and the final delivery. The bidder agrees to make these changes once a reasonable cost or credit can be agreed to by both parties. It is understood that the cost for changes may vary depending on how far along the apparatus is in the build process. All changes from these specifications shall be agreed upon in writing and shall become part of the purchase contract.
10. **Delivery and Training:** The ambulance shall be delivered to the Syracuse Fire Department at the expense and under the liability of the successful bidder. The successful vendor will provide orientation and training on the new ambulance at the time of delivery. The person providing the training will stay in the area for up to 24-hours, if necessary.
11. **Non-Collusion:** By submitting a proposal response, the bidder hereby certifies that to the best of their knowledge:
 1. The prices in their bid have 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.

2. 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.
 3. No attempt has been made nor 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.
12. **Materials and Workmanship:** All equipment furnished shall be guaranteed to be new and of current manufacture. All materials shall meet all relevant standards and conform to all current engineering and manufacturing practices and the time of manufacture. Materials shall be free of defects and suitable for the intended use and requirements of this specification. All aspects of the ambulance shall be fully functional as intended at the time of delivery.

All parts and assemblies shall be of high quality workmanship. No part or assembly shall be substituted contrary to the manufacturer's recommendations or current standard practices.

All workmanship shall be of high-quality and performed in a manner so as to produce a safe, functional, and aesthetically pleasing apparatus.
13. **Extra Cost Items:** Each bidder shall include one lump-sum price to cover the entire specification. No item included in these specifications as a standard item shall be excluded from the base price and listed as an extra cost item. The only exception will be for bid options, which are included as numbered items after the base specifications.
14. **Indemnification and Insurance:** All primary manufacturers shall submit their certificate of liability insurance for evaluation. All primary manufacturers shall demonstrate a minimum coverage of Ten Million U.S. Dollars (\$10,000,000.00) on a per-incident basis. The insurance carrier shall be a highly reputable company. Insurance issuer shall have an 'A' or better rating in the current Best Key Rating guide, published by Alfred M. Best Company, Inc. or demonstrated equivalent.
15. **Sites of Work:** With the exception of the chassis, specified accessories, and raw materials, all portions of the ambulance shall be manufactured in shops that are directly owned and controlled by the primary manufacturer. Any assemblies manufactured outside of the primary manufacturer's facilities shall be noted. The name, address, and contact person supplying any part or assembly to the primary manufacturer must be provided to the Syracuse Fire Department.

16. **Importing:** Any chassis imported for consideration of this specification into the United States under the North American Free Trade Act must provide documentation for compliance with all applicable United States laws.
17. **Going Concern:** Bids will only be considered from companies with a well-established reputation as an ambulance manufacturer. Bidders must demonstrate a minimum of ten years in business manufacturing similar equipment to this specification using similar techniques.

Every bidder shall disclose any pending or anticipated litigation between the bidder and any other party which might have any effect on the completion of the contract between the manufacturer and the Syracuse Fire Department.

Each bidder shall include, with their bid, a reference list with a minimum of ten customers who have purchased similar vehicles within the last 18 months of the time of bid. This list shall include Name of agency, phone number, and contact person for the purchasing party.

18. **Chassis:** The ambulance shall be built on a 2014 or newer Chevrolet or GMC 3500 truck chassis. The chassis shall include the manufacturer's ambulance prep package, if offered by manufacturer. The chassis shall be powered by the current model of Duramax diesel engine with an Allison 6-speed automatic transmission. The fuel tank shall be the largest OEM fuel tank currently offered for this chassis by the manufacturer.
19. **DEF Fill Location:** The fill port for Diesel Exhaust Fluid shall be located on the exterior of the vehicle or under the hood.
20. **Fuel Fill Housing:** A cast aluminum fuel fill housing shall be installed according to chassis manufacturer's instructions.
21. **High-Idle:** The vehicle shall have an OEM high-idle setting which will activate when the parking brake is engaged.
22. **Alternator(s):** The chassis shall have the highest capacity OEM alternator currently offered by the chassis manufacturer. A dual alternator option shall also be included if offered by the chassis manufacturer.
23. **Mirrors:** The chassis shall have powered, trailer towing style mirrors. The mirrors shall be controlled inside on the driver's door.

24. **Chassis Options:** The chassis shall be equipped with the following options:
1. Cruise control
 2. Intermittent wipers
 3. Tinted windows
 4. Chrome front bumper
 5. Power windows
 6. Power locks with key fob remote
 7. High-back captain's chairs with cloth or leather covering
 8. OEM AM/FM Stereo
25. **Tires and Wheels:** The chassis shall have seven (7) OEM radial tires, including a spare, mounted on steel wheels. All wheels with the exception of the spare shall be furnished with a high-quality polished stainless steel cover. Each tire (excluding the spare) shall have a visual indicator that shows, without the use of a separate pressure gauge, whether or not the tire pressure is within the proper operating range so that tire pressure can be verified on a walk-around check.
26. **Map Book Holder:** A map book holder shall be installed against or near the rear wall of the chassis between the seats. This map book holder may be integrated into the center console.
27. **Reverse Alarm:** An audible alarm shall be installed to activate when the vehicle is placed into reverse gear. There shall be, installed in the front console and wired through the vehicle electrical system, a cutoff switch to temporarily disable the alarm. The alarm shall automatically reset each time that the vehicle is placed in reverse gear.
28. **Pass-through:** The ambulance shall have a pass-through window connecting the modular box and the cab area. This opening will have a flexible bellows which shall provide a water tight seal from the cab to the modular box. The dimensions of this window will be approximately 18"X18". Pass through size must meet federal KKK standards.
29. **QVM:** Regardless of chassis manufacturer, primary manufacturer shall include with this proposal a current copy of their Ford QVM certification. If the primary manufacturer has lost their QVM certification in the last five years at the time of proposal, a letter stating that this has occurred as well as an explanation of the reason that the QVM certificate was lost shall be included with the bid.
30. **ISO 9001:2000:** Each bidder shall provide copy of their ISO 9001:2000 certification with their bid.
31. **Welder Certification:** All welders employed by the primary manufacturer shall be certified to the American Welding Society Standard or equivalent for each type of welding that they perform. Proof of certification must be provided if requested.

32. **National Truck Equipment Association:** NTEA Member Verification Program membership proof shall be provided with each bid.
33. **Exhaust:** The exhaust of the vehicle shall exit on the passenger side of the vehicle near the rear tires. The exhaust shall be fitted with a Magne-Grip fitting to attach to our current station exhaust system.
34. **Ongoing Safety Testing:** Proof of ongoing safety testing and evaluation of modular body safety programs shall be provide with each bid. At minimum, in addition to roof static load testing, proof of side load testing with a minimum of 22,700 lbs shall be provided.
1. Center of gravity testing: Proof of center of gravity testing to meet NFPA 1901 and SAE J2180 tilt table testing verified by an accredited ISO/IEC 17025 shall be included with each bidder's proposal. A minimum three examples of validation of the center of gravity formulas used by the manufacturer shall be provided. These examples shall include:
 - i. Center of gravity Formula used
 - ii. Actual test results certified by the above mentioned laboratory
 - iii. Photos of the ambulance used in each example during the testing process
 2. Impact testing: Proof of impact testing in each area of the vehicle to meet or exceed FMVSS, IIHS, and AMD standard 001 shall be provided with each proposal.
35. **Electrical System:** The battery system will be wired according to the most current Federal KKK standards. The electrical system must, at a minimum, meet SAE J541 standard for starter circuit voltage drop for heavy duty applications. It is the understanding of the Syracuse Fire Department that each ambulance manufacturer has a proprietary electrical system for battery disconnect, power control to the module, manual overrides, etc. Each bidder shall provide a description (specification) of their electrical system, its amperage ratings, and its operation. Each bid shall demonstrate that their electrical system meets or exceeds all applicable standards. The electrical system, including controls, will carry a minimum of a five (5) year unlimited mile warranty.
36. **Modular Box Size:** The minimum dimensions of the modular box will be 153"X95". Interior headroom will be no less than 72".

37. **Modular Box Construction:** The modular box will be all aluminum fully welded construction. The body and panel joints will be water tight and free from leaks. All openings between the chassis and the occupant compartment will be sealed. The construction of the modular box shall carry a minimum of a fifteen (15) year and unlimited mile warranty. A complete description of each manufacturer's modular box construction methods, including wall, roof, and floor, will be included with each proposal. All construction and attachment of components shall be performed using methods to minimize the possibility of electrolysis.
38. **Body Marker Lights:** A full set of D.O.T. marker lights and reflectors will be installed on the vehicle. Upper corners of the modular box will contain a recessed clearance light that shines in both horizontal directions from each corner. Front corner lights will be amber and rear corner lights will be red. For a manufacturer that does not have this type of light, this may also be accomplished with two lights at each corner (one in each direction). All marker lights will be LED.
39. **Fog Lights:** The ambulance will be equipped with fog lights. These lights will either be O.E.M. or PIA Model #510. These will be operated from their own switch located within easy and ergonomic reach of the driver.
40. **Drip Rails:** A drip rail will run the entire length of the top of the modular box. In addition, each exterior door and/or compartment will have drip rail the entire length of the opening. Drip rails over compartment openings will be attached in a manner as to provide quick and easy replacement.
41. **Component Mounting:** Metal tapping plates will be welded to the body or framing to secure the installation of equipment such as cabinets, benches, partitions, cylinders, cot holders, etc. Self-tapping (wood/metal) screws or nails will not be acceptable methods for attaching these components to the ambulance body.
42. **Modular box mounting:** The module shall be mounted to the chassis using no less than eight (8) attachment points (4 on each frame rail) between the module and the chassis. A dampening method will be incorporated to minimize transmission of vibrations from the chassis to the modular body. No methods may be used which may negatively affect the chassis manufacturer's warranty. Each bidder will provide a copy of their module mounting specifications.

43. **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 section of the bumper will flip up out of the way for easier loading of the patient. The top of the entire center section will be made of a grip strut or other similar non-slip surface. The rear bumper assembly will have I-beam constructed skid plates with tow eyes mounted as part of the frame of the bumper. There will be ½” 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 along the length of the rear width of the module.
44. **Stone Guards:** Stone guards made of diamond plate aluminum shall be installed to wrap the lower front corners of the modular box. These shall extend to a minimum height of 28” above the bottom of the modular box.
45. **Fender Flares:** Extruded rubber fender flares shall be installed above each wheel well opening.
46. **Rub Rails:** The modular box shall be fitted with skirt line rub rail. The lower rub rail shall be extruded aluminum 2” wide and 1” high with 45° beveled ends. The extrusion will accept an extruded black rubber insert. The extruded rubber insert shall have a channel designed to accept a vinyl strip on the outermost surface. This vinyl strip will have 3M retro-reflective white tape exposed to the outer exposed surface. The extruded rub rails shall be installed on the lower sides of the modular body using stainless steel fasteners and rubber spacers between the rail and the body.
47. **Running Boards:** Diamond-plate, narrow style, running boards shall be installed on both sides of the chassis to assist the driver and passenger in boarding the vehicle. Running boards will have a grip-strut, or comparable, non-slip surface. Running boards shall be of an appropriate length for the chassis specified.
48. **License Plate Holder:** A license plate holder shall be installed on the rear of the apparatus. The license plate holder shall be typical as per the primary manufacturer and shall be located centered under the rear access doors.
49. **Mud Flaps:** Mud flaps shall be installed behind all wheels of the vehicle.

50. **Paint:** The paint color of the cab and module body will be Pierce #90 red. The surface of all painted parts will be prepared according to the paint manufacturer's preferred process. All material impurities must be removed and all body surfaces, excluding the underside, imperfections (i.e. visible welds, holes, etc.) shall be filled and/or sanded down to a smooth finish. The paint shall be applied according to the paint manufacturer's recommendations. All removable parts of the vehicle (i.e. doors) that are to be painted shall be removed and individually painted following the same process as the main body. The paint shall carry a minimum of a 4 year warranty.
51. **Striping and Lettering:** All DOT and KKK lettering and sticking requirements shall be met. A 3-M 6" retro-reflective white stripe shall run the length of both sides of the cab with a 45° shift downward across the cab door and then continuing straight, to match our existing ambulance. The successful bidder shall provide, prior to any paint application, CAD drawings that depict the required stripe as it will appear on the finished vehicle. An allowance shall be made for lettering to match our current ambulance with shadowed gold leaf lettering on the following areas:
1. **Sides and Rear of Modular Body:** 30- 10" letters each
 2. **Hood of Ambulance:** "ECNALUBMA" in 4" letters to meet KKK requirement.
Exact lettering to be determined at pre-build conference.
52. **Rear Chevron Striping:** The rear surface of the ambulance, including the doors, shall have chevron striping applied. The striping shall be 3-M retro-reflective 6" in alternating ruby red and safety yellow colored stripes and shall extend from the bottom of the emergency lights at the top of the module and run to the diamond plate kick plate at the bottom. Striping shall be applied so that any exterior components are installed over the top of the chevrons to minimize the number of exposed edges of the striping.
53. **Star of Life Emblems:** Star of life emblems shall be of a high quality material that will be resistant to scuffing and fading. Emblems shall be designed and printed to match our current fleet. An allowance shall be included for the following star of life logos:
1. **Sides of Modular Box:** 2 total, one 18" on each side to match our current ambulance.
 2. **Rear of Modular Box:** 2 total, one 12" on each side of the entry doors below the emergency lights to match our current ambulance.
 3. **Hood:** 2 total, one 4" on each side of the "ECNALUBMA" lettering to match our current ambulance.
 4. **Roof:** 1 total, one 36" installed on top of modular box.
54. **Non-Metallic Hole Inserts:** All locations where light heads and fenders attach to the aluminum body shall utilize threaded nylon inserts to isolate the fasteners from the aluminum module body skin and structure.

55. **Exterior Compartment Construction:** All exterior compartments will be built as an integral part of the modular body. All compartments shall be designed and built to maximize usable storage space. Compartments shall in no way compromise the structural integrity of the modular body. Each compartment shall be built in a manner to make them as close to one-piece as possible and reduce the amount of welding necessary to fully enclose the compartment, reducing the possibility of leaks. All exterior compartments will be water tight. All exterior compartments will be vented to displace air when the door is closed. The floor of each compartment shall be a minimum of two inches below the bottom lip of the door opening to prevent equipment from falling out when the door is open. The compartment containing the on-board oxygen bottle will be the only exception; the bottom of the compartment shall be even with, or slightly above the bottom of the door opening the ease with removal and installation of the on-board oxygen cylinder. All shelves in exterior compartments shall be built with a minimum of a 2" lip around the outside of the shelf.
56. **Hold-Open Devices:** The following hold open devices shall be installed:
1. Compartment doors: gas-filled 100° extension actuator
 2. Side access door: gas-filled 110° extension actuator
 3. Rear access doors: Cast Products grabber style devices
57. **Exterior Door Construction:** All exterior door skins shall be formed of one sheet of aluminum in order to be seamless. The doors shall be flush with the ambulance body when closed. Door frames shall be built of a minimum of .125" x .250" extruded aluminum. The frame shall extend around the entire perimeter inside the door skin. Each corner shall be welded to prevent separation. Doors on adjacent compartments which may interfere with each other if opened at the same time shall be provide with a durable protective bumper to prevent doors from damaging one another.
58. **Door attachment:** All exterior doors will be attached using a minimum size of ¼"-20 stainless steel bolts with a stainless piano hinge with a pin of at least .250" in diameter. The hinge must be slotted to provide field adjustments a corrosion inhibitor will be applied to the door frame and jamb bolts prior to installing the hinge.
59. **Exterior Compartment Finish:** The inside of all exterior compartments will be fully finished with a chip-resistant, bacteriostatic, anti-fungal, mildew-resistant, sprayed-on finish. Turtle-Tile, or equivalent shall be provided to line the bottom of all exterior compartments and shelves.
60. **Environmental Air System:** The environmental air system is to be separate from that in the chassis of the vehicle. The vehicle will have a self-contained purification unit. If a purification type system is available, do not bid an alternative type of Heat/AC unit. If a different type of unit is proposed, a description of the system demonstrating equivalency shall be included with the proposal.

1. The environmental air system shall be in a readily accessible location for ease of service.
 2. The system must have an anti-microbial filter that destroys microorganisms and removes particles 10 microns and larger at 35% efficiency. The system must include an activated charcoal covered medium filter to assist in the removal of odors. The system must include a high efficiency particulate filter that removes particles of .3 microns and larger at 99.97% efficiency. All filters must be easily accessible for changing.
 3. The system must have the capacity to perform a complete air exchange of the modular box every 90 seconds.
 4. The air delivery and return system must be a sealed system to prevent the passage of air other than through the filtering system. The filtered air will pass through a multi-directional vent to disperse high volumes of low velocity air.
 5. This system must meet current KKK performance parameters. Testing must be performed with the filters in place.
61. **Thermostat:** The environmental air system will be controlled by a digital thermostat with a three-speed fan control located in the action area switch panel above the tech table. The thermostat will automatically adjust the heat or air conditioning to bring the internal air temperature to the exact temperature indicated by the thermostat without taking any other actions.
62. **Exterior Compartment Location and Dimensions:**
1. Street side front compartment (#1): This compartment will house the onboard oxygen bottle and will have a minimum dimension of 59" h x 20" w x 18.5" d. This compartment will have an option of a recessed area on the opposite side of the oxygen bottle to accommodate a stair-chair. The recess will be a minimum of 7.5" wide and create an overall depth of at least 21.5" in the recessed area (this will be priced separately as a bid option).
 2. Street side intermediate compartment (#2): This compartment will be located directly behind compartment #1 and in front of the wheel well and have a minimum dimension of 29.5" h x 32" w x 18.5" d. This compartment may house electrical components of the vehicle charging system, or be used to access sharps container and infectious waste basket that can be dropped from inside of the vehicle at the tech table if either is the standard practice of the manufacturer. This compartment will have one optional adjustable shelf (priced separately as a bid option). This compartment will closed using dual doors which shall open outward from the middle. The doors will latch using each other and the outer frame of the compartment. Any component that spans the opening will be unacceptable.

3. Street side rear compartment (#3): This compartment shall be located at the rear of the driver's side. This compartment will be used to house varied equipment and may be used to hold firefighter turn out gear and SCBAs. It will have a minimum dimension of 53.5" h x 32" w x 18.5 d. This compartment will include one fully adjustable shelf. This compartment will closed using dual doors which shall open outward from the middle. The doors will latch using each other and the outer frame of the compartment. Any component that spans the opening will be unacceptable.
 4. Curb side rear compartment (#4): This compartment will be located at the very rear of the passenger side. This compartment will be used for the vertical storage of backboards. The minimum dimension will be 75" h x 15" w x 18.5" d. This compartment will have an adjustable vertical divider and a seat belt type strap across the approximate vertical center of the compartment. This strap will be made of material comparable to vehicle seatbelts and use a similar latching mechanism.
 5. Curb side intermediate compartment (#5): This compartment will be located directly in front of compartment #4 and behind the wheel well on the passenger side having a minimum dimension of 21.5" h x 24" w x 18.5" deep.
 6. Curb side front compartment (#6): This compartment will be forward most on the passenger side and have a minimum dimension of 68" h x 21" w x 30" deep. This compartment shall be accessible from both the interior and exterior of the modular box. This compartment shall have two (2) fully-adjustable shelves.
63. **Door Seals:** All exterior doors will be provided with an extruded rubber seal system consisting of a hollow cell bulb gasket. The gasket will be designed and installed in a fashion which makes it easily replaceable should it be damaged.
64. **Door Handles and Latches:** All exterior door handles shall be heavy duty handles that are nearly flush with the outer door panel. The exterior handles shall of a design that they can be easily manipulated while wearing heavy gloves, such as firefighting gloves. All exterior door handles and latches shall be a proven system, and shall be manufactured by a well-known manufacturer. Cable actuated latches shall be unacceptable. All doors to the patient area shall include both interior and exterior latch activators and a manual lock/unlock device on the interior. All door latches shall activate with a maximum of 35lbs of effort. The curbside and primary rear-entry door shall have upper and lower emergency release lever allowing the striker bolt latch to be manually released from inside the patient compartment. The emergency release levers shall be yellow rubber coated for visibility.

65. **Power Door Lock/Unlock:** All exterior compartment and patient area doors shall be capable of being locked and unlocked using the power lock activator on the chassis. The power lock/unlock mechanism shall also be capable of being operated from a switch on the curbside entry door and rear main door in the latch activation assembly. There shall be a hidden push-button switch located in the grill area of the chassis which shall be independent of all other switches and ignition; this switch shall be used for unlock only of all exterior chassis and module doors.
66. **Patient Area Door Openings:** Two doors shall be provided at the rear of the modular body. The overall opening of the rear access shall be a minimum of 54.3" h X 46.75" w. The curbside patient area access shall have a minimum opening of 75.1" h X 30" w.
67. **Patient Area Insulation and soundproofing:** The patient area of the modular body shall be insulated according to the primary manufacturer's best method to provide for thermal and acoustical emissivity reduction.
68. **Door Panels:** Interior door panels will be made of brushed aluminum or stainless steel to provide a durable finish. The door panels will be designed to allow removal without disturbing the latching hardware. Door panels must be flush fitting.
69. **Modular Body Windows:** All windows in the modular body will be encased in extruded aluminum frames and meet all FMVSS standards. All windows will all have a privacy screen material installed as chosen by Syracuse Fire Department. Successful bid will present options for window screen materials and colors. Under no circumstances will R.V. style windows or windows that rely on a rubber gasket for mounting be acceptable.
1. **Access Door Windows:** Each patient compartment access door will include a window. The two rear doors will each contain a fixed window with minimum dimensions of 16.5" h X 17" w. The curbside access door will contain a sliding window with a screen and a minimum dimension of 16.5" h X 17" w.
 2. **Curbside Window Above Squad Bench:** There shall be a fixed window installed above the squad bench. The minimum dimensions of this window shall be 13.5" h X 34" w.
70. **Door Open Indicator:** An open-door or compartment ajar indicator light will be activated on the driver's console when any modular body door is ajar. An audible signal will also be activated when any modular body door is ajar and the vehicle is taken out of Park or Neutral.

71. **Compartment Lighting:** An allowance shall be included for LED style lights to be installed in exterior compartments. A light shall be installed in every space created by a shelf or divider. Where shelves or dividers are adjustable, the light shall be installed in a location which would provide the most even lighting should the shelf(s) or divider(s) be situated to equally divide the overall space. These lights shall be operated by magnetic switches and shall turn on when their respective compartment door is open.
72. **Wiring:** All wiring will be copper and conform to all SAE J1292 requirements. All insulation will be rated to at least 300°f. All wiring carrying a load of more than 5 amperes will be of the same size as the “power” wire required for the circuit. All wiring will be permanently labeled at every termination with a circuit identification method of the manufacturers choosing. A vehicle wiring diagram shall be included which shall demonstrate color, identification, and function of all wires for the electrical system. All wiring shall be routed so as to be protected from damage from any heat sources. Wiring shall be continuous from component to component with no splicing. Splicing shall only be permitted for “pig-tail” attached devices. “Pig-tail” attached components shall use an appropriately sized, crimped, butt-splice connection. Insulation Displacement Connectors are not acceptable.
73. **Center Console and Control:** A center console shall be built between the seats in the cab. This console will house controls for the electrical system as well as radio components. This area will also be used to mount the vehicles computer. Each bidder shall include an allowance for this console to fill the entire space from the rear wall of the cab to the dashboard area. The final design and layout for this console will be determined in a consultation between the winning bidder and the Syracuse Fire Department.
74. **Control Panel above Tech Table:** A control panel shall be located above the tech table in the passenger area of the module. The clock and thermostat shall be included in the same area as this control panel. Final layout and design of switches and controls located in this panel will be determined in a consultation between the winning bidder and the Syracuse Fire Department but will include at a minimum:
1. All controls for patient compartment heating and cooling system
 2. Oxygen controls
 3. Power vent control
 4. Control for all lighting in patient compartment
 5. Clock
 6. Radio volume control (if required)

75. **Antenna Coax:** Each antenna will include and be terminated to a Motorola antenna mount on the roof of the module and will have a 6' end wire in each of the following locations:

1. Two (2) behind the passenger seat in the cab area.
2. One (1) to the electrical compartment.

76. **Cigarette Lighter Style Power Outlets:** 12-volt diode protected outlets shall be wired through a 20 amp manual reset circuit breaker and installed in the following quantities and locations:

1. One (1) in the exterior wall above the tech table.
2. One (1) in the curbside front compartment
3. One (1) in the center console in the cab area.

Exact location of outlets will be determined in a consultation between the winning bidder and the Syracuse Fire Department.

77. **120V Outlets:** 120-volt medical grade duplex outlets with GFCI protection shall be installed in the following quantities and locations and hooked to the shoreline system:

1. Two (2) in the exterior wall above the tech table. One (1) on each side of the CPR seat.
2. One (1) in the curbside front compartment.
3. One (1) behind the passenger in the cab area.
4. One (1) in street side rear compartment #4.

Exact location of outlets will be determined in a consultation between the winning bidder and the Syracuse Fire Department.

78. **USB Outlets:** USB outlets with two ports each shall be installed in the following quantities and locations:

1. One (1) in the center console in the cab area.
2. One (1) in the exterior wall above the tech table.

Exact location of outlets will be determined in a consultation between the winning bidder and the Syracuse Fire Department.

79. **Shoreline:** The vehicle shall be equipped with a Kussmaul Super Auto Eject non-arcing shoreline system. The inlet shall be a straight three-prong 20 amp male and shall include the female adapter plug. The shoreline shall be installed so that the plug will eject if the plug is still connected when the vehicle is started. The shoreline system shall be designed to handle a 20A load and shall be protected with a 20 amp GFCI circuit breaker. The inlet shall be located street side of the module as far forward as possible.
80. **Shoreline Indicator:** An indicator light shall be installed on the module body above the shoreline inlet. This light will illuminate to indicate that there is 120V power present and that the inline breaker is in the closed position.
81. **Inverter/Battery Conditioner:** A vanner 20-1050 CUL Lifestar Ambulance Power Module will be provided and integrated into the shoreline system and the vehicle electrical system.
82. **Volt Meter:** The vehicle will have an integrated volt meter in the instrument cluster or in the control console. This volt meter may be incorporated into the ambulance manufacturer's control system, or a stand-alone unit.
83. **Block Heater:** The engine block heater shall be wired through the vehicle shoreline system. The wiring shall include a cutoff switch, to be installed with the onboard electrical components, to disable this feature for seasonal use.
84. **Back-up Camera/Dash Camera:** The vehicle shall have back-up camera as well as a dash camera. It shall be acceptable to have both cameras be part of one system should the manufacturer desire to do so. The back-up camera shall turn on and provide a clear view of the entire width of the back of the ambulance on a monitor to the driver when it is placed in Reverse gear. The dash cam shall turn on and begin recording when the ambulance ignition is turned on and continue recording until the ambulance turns off, or until the camera is manually turned off. The dash cam shall provide a clear view of the area in front the ambulance on a screen which shall be visible to the driver and passenger. The camera shall be mounted on a flexible arm to provide for aiming. It shall be acceptable to use the mount of the rear-view mirror as this arm. The camera shall incorporate loop recording so that it does not stop recording when the storage is full. It shall also include a G sensor which will save footage any time a shock is detected and prevent it from being overwritten by the loop system. If the same monitor is to be used for the back-up camera and the dash cam, the monitor will give preference to the back-up camera. The system shall have removable memory of at least 32G in a medium format that allows for easy transportation and transfer of files to.
85. **Siren Controller:** The siren controller will be a Whelen 295HFSC9 dual tone. This siren controller will be located on or in the center console of the apparatus. Exact location to be determined during a pre-build meeting with the manufacturer. Siren will be wired to OEM horn ring.

86. **Siren Speakers:** Two 100W siren speakers will be mounted through the front bumper. These sirens will be designed and mounted for an aesthetically pleasing install. They will look, as much as possible, like they are an integrated part of the bumper.
87. **Lighting Package:** The lighting package shall meet all Federal KKK 1822 specifications. All running lights, marker lights, etc. shall be LED.
88. **Front Warning Lights:** No light bar will be installed on this vehicle. The light bar will be replaced by seven (7) Whelen 900 series Super LED lights across the top of the front of the module box. All lenses are to be clear colored. The LED color of the lights shall be as follows, from left to right: Red, White, Red, White, Red, White, Red. These lights will be wired through the internal flasher. Flash pattern is to be selected by purchaser.
89. **Rear Warning Lights:** Five (5) Whelen 900 series Super LED shall be mounted on the rear of the modular box. Two (2) shall be mounted in the upper, outermost corners of the modular box, one on each side. Two (2) shall be mounted on the rear of the box so that they are visible through the windows of the rear access doors when the doors are open, one on each side. These lights will all have clear lenses and the color of all LED lights will be red. One (1) will be mounted centered above the rear access doors at the same height as the outer corner warning lights. This light will have amber LEDs and a clear lens. These lights will be wired through the internal flasher. These lights, with the exception of the amber one, shall illuminate when the brake pedal is depressed, except when operating in emergency mode.
90. **Grill Lights:** Two (2) Whelen M4 series lights will be mounted in the grill area. One will be mounted on each side, high in the grill area. These will be wired through the internal flasher. These lights will have clear lenses with red LEDs.
91. **Intersection Lights:** Two (2) Whelen M4 series lights will be mounted on the front fenders of the cab. One (1) light will be mounted on each side of the cab in the front quarter panel area. These will be wired through the internal flasher. These lights will have clear lenses with red LEDs.
92. **Side Warning Lights:** Four (4) Whelen 900 series Super LED lights shall be mounted on the sides of the modular body. Two (2) lights will be mounted on each side of the modular box high in the front and rear corners. Two (2) Whelen M4 series lights will be mounted on the sides of the module. One (1) will be mounted on each side above the wheel well. These will be wired through the internal flasher. These lights will have clear lenses with red LEDs.
93. **Curbside Entry Door Warning Light:** One (1) Whelen M4 LED light will be mounted on the inside of the curbside entry door. This light will be located high on the door towards the rear corner. This light will flash when the vehicle is on and the entry door is open. This light will have a clear lens and red LEDs.

94. **Wigwag Headlights:** Two (2) Whelen M4 series lights will be mounted in the grill area of the cab as wigwag lights. These lights will be mounted on the lower outer grill area. These lights will flash in a double flash pattern such that each light will flash two times followed immediately by the other. These lights will be programmed to flash with emergency lights activated and the vehicle in a drive gear. These lights will not operate with the vehicle in park gear. These lights will have clear lenses and white LEDs.
95. **Scene Lights:** Six (6) Whelen 9SCOENZR scene lights will be installed on the sides of the module. Two (2) lights will be mounted high and near the front and rear corners inside of the warning lights on each side of the module. Each side will be controlled from an independent switch in the center console. The curbside lights will illuminate when the curbside access door is open regardless of the position of the switch. Two (2) scene lights will be mounted on the front of the module. These will be located below the warning lights on the outside corners of the front of the module and be controlled from an independent switch in the center console. The rear scene light on each side of the vehicle shall illuminate when the vehicle is placed in reverse gear.
96. **Loading Lights:** Two (2) Whelen 9SCOENZR lights will be mounted on the rear of the module, high towards the outside between the warning lights. These lights will be controlled by a switch in the center console and will activate when the main rear access door is open regardless of the position of the switch. These lights will also be incorporated into the FMVSS back up lighting system, and turn on when the vehicle is placed in reverse.
97. **Tail Lights:** Truck-Lite 45435 rectangular LED lights will be mounted in the rear kick plate. These provide tail, brake, turn signal, and back up lights.
98. **Additional Tail Lights:** In addition to the above listed tail lights, Two (2) LED brake lights with a minimum of 30" square inches of surface area will be installed at the rear of the vehicle. The brake lights, when activated, will give one flash before burning steady. One will be installed on each side of the loading doors above the kick plate. Two (2) arrow-shaped LED turn signal lights will be installed on the rear of the vehicle. These will be installed in close proximity to the above-listed brake lights. Two (2) white LED back up lights will be installed in close proximity to the above listed lights. The above lights may be contained in one housing unit, or be installed to be aesthetically pleasing. If these lights can be used to meet all FMVSS and other applicable standards, The Truck-Lite modules listed in Item #96 may be eliminated.
99. **License Plate Light:** An LED style license plate light shall be installed in the license plate housing to adequately illuminate the license plate.
100. **Module Interior Ceiling:** The ceiling of the patient compartment will be flat, smooth, and white in color with no visible seams. The ceiling will be made of a hardened material to prevent cutting and bio-fluid infiltration.

101. **Patient Compartment Dome Lights:** The interior ceiling of the patient compartment will house seven (7) Whelen 8" Round Super-LED model # 80C0EHCR lights. Four (4) lights will be located over the main patient area and three (3) will be over the squad bench. The lights will be spaced so as to provide even lighting throughout the patient care area. These lights will be dimmable using pulse width modulation. These lights will be controlled and dimmed through a switch located on the panel above the tech table. These lights shall be supported solely by the ceiling liner. The four lights on the patient side of the compartment will illuminate on the low setting when either side or rear access door is opened. These lights will also be operated by a momentary contact switch on the side of the squad bench near the side access door. When the button is pushed, the lights will come on for fifteen (15) minutes. If the button is pushed again during this fifteen minute period, the lights will turn off.
102. **Step Well Light:** An LED light will be placed in the step well of the side access door. This light will come on when the side access door is opened and will illuminate the entry step.
103. **Tech Table Light:** A light will be installed under the control panel that is located above the tech table. This will be an LED strip light of adequate length to illuminate the tech table. This light will be controlled from a switch located in the control panel above the tech table.
104. **Tech Table Clock:** An Intellitec ETM clock will be installed in the control panel above the tech table. This clock will be hard-wired to the vehicle battery.
105. **Switch Panel Decontamination and Spill resistance:** The switch panel in the driver's compartment and the patient area shall be designed to be decontaminated.
106. **Switch Panel Backlighting:** The switch panel shall be backlit so that the function of all switches is easily legible in extremely low-light situations.
107. **Suction System:** This ambulance will not have an on-board suction system. A Laerdal LSU shall be included and installed to take the place of the on-board suction unit. A Laerdal LSU wall mount shall be installed and wired to the 120V shoreline system so that the unit charges when it is in its wall-mount, and the shoreline is plugged in. Exact mounting location will be determined in pre-build conference.
108. **Access Door Grab Handles:** All module access doors shall have an 'L' shaped grab handle. These grab handles shall have smooth radius curves and flange mounts on each attachment point. These grab handles shall be treated with an anti-microbial coating.

109. **Overhead Grab Rail:** An overhead grab rail will run the length of the patient compartment. Integrated stanchions shall be used at fixed points along the rail for attachment to the structure of the ambulance module. The ends of the grab rail will have smooth radius 90° turns and shall terminate at mounting points against the ceiling. This grab rail shall be treated with an anti-microbial coating.
110. **Oxygen System:** The oxygen system will be controlled by an electric solenoid controlled from a switch in the control panel above the tech table. A manual bypass will be located near the tech-table in case of failure of the electric solenoid. A KKK approved regulator shall be installed at the oxygen cylinder location. This will include a dial type gauge to monitor the oxygen cylinder contents. A single, low-pressure line shall be installed from the regulator to the manifold. No high-pressure oxygen lines will be run in the patient area. Oxygen lines are to be continuous from the manifold to the oxygen ports, no splicing shall be allowed. The oxygen system shall monitor cylinder pressure and line pressure. An audible and visual warning shall be given for each of these conditions: 1- Low cylinder pressure (500 psi or below). 2- Low line pressure (40 psi or below). 3- High line pressure (75 psi or above). Each warning will continue until acknowledged by ambulance personnel either in the cab or in the control panel above the tech table. The system shall be tested, installed, and labeled according to KKK regulations. The oxygen cylinder shall be provided and installed by the Syracuse Fire Department.
111. **Oxygen Cylinder Mount:** The cylinder for the on-board oxygen system will be installed in the front street side compartment. An oxygen cylinder bracket shall be installed in this compartment. The cylinder bracket shall be adjustable to accommodate either an “M” or an “H” sized tank.
112. **Oxygen Cylinder Wrench:** An oxygen cylinder wrench will be installed in the front street side compartment. The wrench shall be installed in such a way that it will not bang or rattle. The wrench shall be chained to the compartment so that it cannot be removed without the use of tools. The chain must not interfere with the operation of the wrench
113. **Oxygen Outlets:** Three (3) oxygen outlets shall be installed in the patient area. One (1) shall be installed above the tech table, one shall be installed above the countertop to the rear of the CPR seat, and one (1) shall be installed at the head of the crew bench. Outlets shall be NCG style to match our current ambulance. Exact location to be determined at pre-build meeting. Three (3) dial-type flow regulators shall be included, one (1) with each outlet.

114. **Cot Mount:** A Stryker dual position cot mount shall be installed in the floor of the ambulance. When installed, it shall be put in the center of the floor aisle. A rear safety hook shall be installed in conjunction with the cot mount.
115. **I.V. Hooks:** Four (4) Perko snap-type fender hooks shall be installed for I.V. Hangers. Two (2) shall be included and be located near the ceiling near the head of the patient, with one on street side, and one curb side. Two (2) shall be located near the ceiling near the patient's feet, with one on street side and one curb side. Each hanger will have a Velcro strap below it to secure an I.V. bag. I.V. hooks that protrude from the ceiling will not be acceptable.
116. **Interior Cabinet Construction:** It is understood that different manufacturers use varying methods for the construction of interior cabinets. The cabinets shall be manufactured and installed in a way that does not negatively affect the structural integrity of the modular body. The cabinets shall carry the same warranty as the modular body. All surfaces shall be covered with a non-porous material that can easily be decontaminated from potential bio-hazards. Each bidder shall provide a clear description of their cabinet construction methods.
117. **Counter Tops:** Counter tops shall be made of Corian or equivalent material. Counter tops shall be one-piece and have a 1" retention lip around the perimeter. Inside corners where the counter top meets the retention lip shall have no sharp inside corners which would render them difficult to clean. The counter top will be anti-microbial in nature, or shall have an anti-microbial coating applied.
118. **Patient Compartment Flooring:** The floor covering in the patient compartment shall be Loncoin anti-microbial flooring. The flooring shall be installed with a 3" roll-up around the perimeter, with the exception of the access door areas, to contain fluids. The floor covering shall be one piece to the extent possible. All necessary seams shall be completely sealed and impervious to leaks.
119. **Attendant Seat:** An EVS model 1850 high-back attendant/child seat shall be installed near the head of the patient. This seat shall have seamless construction for easy decontamination. This seat will include a 3-point seat belt for the attendant, and a 5-point safety harness for the child seat. The base of the seat shall be covered with diamond-plate aluminum. If the manufacturer does not use this space to house other equipment (i.e. air handling equipment), this base shall include a hinged door to access the space under the seat. This door shall be held closed with a self-latching mechanism.

120. **Seats and Upholstery:** The CPR seat, squad bench, and any other upholstered pieces in the patient area shall be covered with a minimum 32-ounce, nylon reinforced commercial vinyl material. All cushions and upholstery will be vacuum molded and have no seams, stitching, or beaded edging. All upholstered surfaces shall be impervious to soap, water, and disinfectants. Bench and CPR cushions will be removable without the use of tools to allow cleaning of the under surfaces.
121. **C.P.R. Seat:** This apparatus shall be equipped with a street side C.P.R. seat. The bottom of the CPR seat will be hinged with a stainless steel piano-style hinge and will lift up for additional storage underneath.
122. **Squad Bench:** A squad bench will be built on the curb side of the vehicle and run from the wall of the rear curb side compartment to the side access door step well. This bench will have a one-piece lid with a stainless steel piano-style hinge along the curb side wall. The hinged bench lid will run from the rear curb side compartment and shall end to leave adequate space for the biohazard and sharps containers listed below. The bench lid will have a latch which will secure the lid when it is closed without any further action by personnel. This latch shall be operated by a paddle-type handle and shall be capable of being operated with one hand and shall be flush, or very nearly flush-mounted in the face of the bench riser. The bench lid shall have minimum 60# gas strut hold open and shall be able to open to nearly 90°. The space under the bench lid shall maximize the use of the storage space remaining with the wheel wells and exterior compartments. Three sets of seatbelts shall be installed on the squad bench for seated positions as well as for backboard retention for a secondary patient.
123. **Safety Net:** A safety net shall be installed at the head of the crew bench. This net shall have the same strength rating as a seat belt and shall be able to stop an occupant on the crew bench should the vehicle be involved in a front-end collision. The net shall be removable without the use of tools for cleaning.
124. **Biohazard and Sharps Containers:** A recessed biohazard container and sharps container shall be built in to both the end of the squad bench, and the tech table. The opening to these containers shall have flip-up clear lexan covers. The biohazard containers shall be minimum 1 gallon containers and the sharps containers shall be a minimum of 3 quart sharps containers. The containers in the tech table shall be located next to the CPR seat and shall be able to be removed and emptied through the exterior compartment. The containers under the bench will located next to the side access step well, and will be removed and emptied through the lift-up bench seat.
125. **Glove Box Container:** A glove box holder/dispenser shall be included over the curb side access door. This shall have the capacity to hold and dispense three boxes of gloves. This container will have a hinged lexan cover for restocking.

126. **Open Counter Top:** There shall be an additional countertop space on the side of the CPR seat opposite the tech table. This countertop shall match the tech table counter top and shall have the approximate dimensions: 25" w X 18" d.
127. **Interior Compartment Locations and Dimensions:** The winning bidder shall, at a pre-build conference, meet and consult with the Syracuse Fire Department on exact dimensions and maximizing usable space. All interior cabinets shall have a smooth finish impervious to soap, water and disinfectants. All interior cabinet bottoms and shelves shall include a removable rubber liner.
1. Upper Rear Street Side (A): This shall be one cabinet and will run from the back of the module box to the rear edge of the CPR seat space. This cabinet will have a center divider and an adjustable shelf on each side of the divider. This cabinet shall have clear lexan sliding doors.
 2. Upper Street Side Above Tech Table (B): This shall be one cabinet and will run from the front of the module to the front edge of the CPR seat space. This cabinet will have a center divider and an adjustable shelf on each side of the divider. This cabinet shall have clear lexan sliding doors.
 3. Below Countertop Next to CPR Seat (C): This cabinet shall fill the space between the rear exterior compartment and the CPR seat. This cabinet will have an adjustable shelf and clear lexan sliding doors.
 4. Front of Module Interior Door to Exterior compartment #6. The interior access to this exterior module will be closed by two (2) hinged, clear lexan doors that will meet in the middle and latch in upper inside corner.
 5. I.V. Supply Drawer: A drawer equal to the width of the compartment #6 interior doors will be included directly above these doors. The drawer will have a 9" tall face and an interior depth of 7". The drawer action and all moving parts shall be enclosed from the exterior compartment access. The drawer shall have an adjustable divider system to divide and contain I.V. supplies similar to our current ambulance.
 6. The top of the drawer enclosure listed above will be the floor of the upper section of the cabinet. The upper section of the cabinet will be closed by two hinged, clear lexan doors that will meet in the middle and latch in the lower inside corner.

7. **Curb Side Over Squad Bench:** A cabinet shall be included on the curb side over the squad bench. This cabinet shall run the length of the curb side from the glove dispenser to the wall of the rear curb side exterior compartment. This cabinet shall have a depth of approximately 10" and have a center divider. Two sets of clear lexan sliding doors shall be installed; one to cover each side of the divider.

Any cabinets typically installed by the manufacturer in an interior space not described above (i.e. behind the attendant seat) shall be included with this bid. A full description of the space and cabinets shall be included as an exception with the manufacturer's proposal.

128. **Hand Held Spotlight:** A handheld spotlight with a minimum of 400,000 candela shall be installed in the cab area in a location easily accessible to the driver and passenger. The spotlight shall be capable of being released from its mounting bracket using only one hand. The spotlight shall have a momentary contact switch and be powered directly off of the ambulance battery. Mounting location to be determined at pre-build conference.
129. **Streamlight Fire Vulcan:** Two (2) Streamlight Fire Vulcan LED handheld lights shall be mounted in a vehicle-mount charging rack. These lights shall be direct wired to the vehicle and shall be mounted in the aisle near the pass-through window.
130. **Static Roof Mounted Vent:** A static vent shall be installed on the roof of the module body. The vent shall be capable of being closed from inside the patient area.
131. **Radio Power/Ground:** The manufacturer shall install heavy gauge cable positive and ground for radio power. This supply shall terminate behind the passenger's seat and will be battery switched.
132. **Spare Oxygen Bottle Storage:** Two (2) Ferno FW521 oxygen storage brackets shall be provided and installed in the aisle near the pass-through window. Oxygen bottles to be provided by purchaser.
133. **Proper Operation:** All parts of the vehicle shall function as designed. All hinged doors shall operate smoothly to the full extent of their swing without interference from other components. All sliding doors shall operate smoothly through their full range of motion and shall have friction devices which prevent them from sliding freely. All doors and other moving components shall be installed in a way to prevent vibration, unwanted movement, or noise.
134. **Fire Extinguishers:** Two 5lb fire extinguishers shall be provided to meet KKK standard.
135. **Filter Replacement Pack:** A full set of spare filters for the environmental air unit in the module shall be provided and shipped loose with the ambulance.

136. **Owner's Manual:** A full set of owner's/service/parts manuals shall be provided with the finished ambulance. This manual shall include a complete set of electrical schematics.
137. **Touch-Up Paint:** A bottle of touch-up paint for each color of the vehicle shall be included with the delivery of the vehicle.
138. **Final Inspection:** The price of the ambulance shall include a final inspection for two members of the Syracuse Fire Department to examine the vehicle prior to shipping. The inspection shall take place at the manufacturing facility. Included will be 3-days, 2-nights motels, meals, airfare, and ground transportation to and from the facility.
139. **Drawings:** A copy of the drawings of each bidder's proposed vehicle will be included with their bid package.
140. **Reference List:** Each bid package shall include a list of 10 of their most recent 15 deliveries similar to this vehicle. This list shall include agency name, location, contact person, and contact information for the 10 references.

Bid Options

Each bidder shall include list of the following options with associated prices should the Syracuse Fire Department choose to add them. The below items SHALL NOT be included as part of the main proposal:

1. Compartment #1 shall have a recess on the opposite side of the oxygen bottle to accommodate a stair-chair. The recess will be a minimum of 7.5" wide and create an overall depth of at least 21.5" in the recessed area.
2. An adjustable shelf with all associated hardware, lighting, etc. shall be installed in exterior compartment #2.
3. The vehicle shall be equipped with On-Spot tire chains.
4. The vehicle shall have OEM electronic shift high and low 4-wheel drive.
5. The countertops shall be fabricated of stainless steel instead of Corian.
6. A Stryker Power-Pro XT shall be included and shipped with the ambulance and shall have the following options:
 - a. Two-stage IV pole
 - b. Dual wheel locks
 - c. Mattress
 - d. Straps and shoulder harness
 - e. Head-end storage flat
 - f. Equipment hook
 - g. Head-end O2 holder
7. The Stryker cot above and the associated mount, referenced in section 114 in the specifications, shall be replaced with a Ferno mount and a Ferno iNX independent X-frame cot. The Ferno cot shall have similar options to the Stryker listed above.
8. A Stryker Stair Pro 6252 shall be included and shipped with the ambulance. The stair chair shall have the locking rear handle accessory.
9. A Ferno EZ Glide stair chair shall be provided with locking rear handles and quick clip patient restraints.
 - a. A separate price will be provide for the above listed Ferno EZ Glide with the same options, and shall include the Powertraxx option.

10. A Whelen Traffic Advisor 5mm low profile directional warning light and associated controller shall be installed. The light will be installed high on the rear of the vehicle to be visible when the rear access doors are opened or closed. This light shall be controlled from the center console in the cab area.
11. The handheld spotlight in the main specifications shall be replaced with a Go Light model 20204 shall be installed on the roof of the cab. The control for the light shall be within easy reach of the driver and passenger. Include with this option a separate price to delete the hand-held spotlight.
12. The Ambulance shall have a train-style air horn installed. The horns shall be mounted to protrude through the front bumper. The air horn shall be operated by a foot switch on the driver's side floor.
13. Thermostat control of the environmental air system shall be controlled from the console in the cab as well as the control panel above the tech table.
14. The lumbar padding which is normally installed above the squad bench shall also be installed on the forward-facing interior wall of exterior compartment #4 at the same height and shall extend from the curb side wall to the depth of the squad bench.
15. Two (2) shelves shall be built and installed inside the patient module. The Shelves will be mounted above the rear of the squad bench on the interior wall of exterior compartment #4. The shelves shall extend from the curb side wall to 2" shy of the depth of the squad bench. The shelf depth shall extend 2.5" off of the wall and shall have a 2" lip around the perimeter. Each shelf shall have a divider system with a minimum of five (5) dividers. The dividers shall be adjustable in no greater than ½" increments over the length of the shelf.
16. A powered roof vent shall be installed in the ceiling of the module body. This vent shall be controlled by a switch in the control panel above the tech table.
17. The ambulance shall be NFPA 1917 compliant. Along with a price for this bid option. Each bidder shall describe the changes necessary to make the ambulance meet this standard.