

**SPECIFICATION DOCUMENT
EXHIBIT A**

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==FORD, F-450, 193"WB, 4X4, XLT,170", #1170F - 621.021 4/07/2022==

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A1.0 SCOPE, PURPOSE AND CLASSIFICATION

A1.0.1 SCOPE

This specification covers a new commercially produced surface emergency medical care vehicle(s), herein referred to as an "ambulance" or "vehicle". This vehicle shall be in accordance with the Ambulance Design Criteria of the National Highway Traffic Safety Administration, United States Department of Transportation, Washington DC. This specification is based on current KKK - A1822 - E revision. It is the intent of this agency to purchase vehicle(s) that are professionally engineered and designed. It is paramount to this agency that vehicle(s) presented be built by a reputable manufacturer with considerable experience in the ambulance manufacturing field. To this end, this agency requires that each manufacturer provide the following:

- 1] A statement of fact, signed by an officer of the manufacturing company, disclosing that the manufacturer has delivered 100 ambulances in the past 12 months. A reference letter and pictures should also be attached.
- 2] The size and location of manufacturing facilities and number of production staff.
- 3] Interior pictures to verify plant facilities.
- 4] A list of on-site engineering staff with educational accreditation.
- 5] ISO 9001:2008 Certification.

Failure to provide this agency with the documentation required will be deemed non-responsive.

A1.0.2 PURPOSE

The purpose of this document is to provide the manufacturer with a set of specifications and test parameters that will meet the criteria to manufacture a vehicle as set forth by this agency. This agency seeks a vehicle that will deliver "fair value". Fair value is defined by this agency as the manufacturer's ability to provide a safe, functional, and practical ambulance conversion that will work in junction with the chassis specified at a reasonable cost. The specifications within this document are a basis to deliver such a vehicle to this agency. This agency at its discretion shall assess the intangible assets of the manufacturer such as, but not limited to, after quality, delivery support, customer service, parts availability, and warranty turnaround time.

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A1.0.3 CLASSIFICATION

This specification calls for the following type of vehicle in accordance with the current KKK-A1822-F revision.

A1.1 GENERAL

This is an engineer, design, construct and deliver type specification meeting the needs of this agency. Attention has been given to the engineering and design aspect of this specification that will attain our goal of fair value. It is the manufacturer's responsibility to deliver a product meeting the criteria as set forth. This agency reserves the right to increase the equipment quantities that are specified. In addition, other agencies will be permitted to purchase equipment under this contract as a result of this specification, unless prohibited under law.

A1.1.1 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 with the assemblies must be provided in writing to this agency. Non-disclosure will be sufficient grounds for rejection of proposal or termination of contract. 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 KKK-A1822-F certification.

A1.1.2 EXAMINATION OF SPECIFICATIONS

It is incumbent on each manufacturer to be thoroughly familiar with the specification contained herein. The specification will require a "YES" or "NO" or when requested a definitive answer to each section or subsection. Sections or subsections not marked with a "YES" or "NO" or answered shall be deemed incomplete and considered non-responsive. A "YES" answer constitutes a complete compliance to the section or subsection as written. A "NO" shall indicate noncompliance and does not eliminate a manufacturer from competition. A manufacturer may object or counter to a specific section or subsection. A manufacturer must indicate in writing, as an attachment, the section or subsection in dispute. The manufacturer must include the verbiage as written, new verbiage presented, explanation of verbiage with consequences and supporting tests and documentation. Failure to comply will be deemed as non-responsive. This agency reserves the right to determine compliance.

A1.1.3 DEFINITIONS: The following definitions shall apply with regards to these specifications.

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A1.1.4 PURCHASER: The end user of the equipment specified or the applicable purchasing agency acting on behalf of the end user.

A1.1.5 CONTRACTOR: The individual, firm, partnership manufacturer, or corporation to whom the contract is awarded by the Purchaser and is subject to the terms thereof. For bidding purposes, the contractor, vendor, bidder, manufacturer is synonymous.

A1.1.6 EQUAL: This agency supports the design, engineering, quality and materials as specified in this document. This shall not prohibit the bidding of unlike product. However, any deviation from the specification must be marked and submitted per section A1.1.2. Failure to do so shall be deemed non-responsive.

A1.1.7 MANUFACTURER: The manufacturer within this specification shall be considered the "primary manufacturer" of the ambulance conversion. The chassis requirement as set forth in this specification is the responsibility of the primary manufacturer to procure. This agency considers the chassis platform as a conveyance for the ambulance conversion. It is imperative that the primary manufacturers procure the **exact** chassis from the chassis manufacturer. After market modifications by the primary manufacturer to achieve chassis specification will not be tolerated. This agency will require documentation from the chassis manufacturer pertaining to the chassis requirements for this agency. Failure to provide documentation after award and prior to construction may result in the termination of the contract. Expenses to re-bid will be the responsibility of the manufacturer in default.

A2.0 SPECIAL CONDITIONS

A2.1 BIDDERS RESPONSIBILITY AND QUALIFICATION

A2.1.1

It is not the intent of these specifications to call for an unusual or experimental vehicle (s). The primary manufacturer shall have a minimum of 10 years of uninterrupted manufacturing of similar or identical vehicles to the specifications set forth in this bid.

A2.1.2

If requested by the purchaser, the primary manufacturer shall supply upon request a list of ten (10) agencies that have purchased similar or identical vehicles within the past year from date of bid. The list will have contact names and phone numbers.

A.2.1.3

For the purpose of this section, if the bidder of record and the primary manufacturer are separate business entities, then each shall be required to

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submit financial, insurance, and/or licensor to conduct business within this jurisdiction. Failure to provide proper documentation with the bid response may result in any bid being deemed non-responsive.

A.2.1.4

The primary manufacturer shall be ISO 9001:2008 certified. **No Exceptions.**

A.2.1.5

The primary manufacturer shall employ full time a Quality Control Manager whose primary function is to monitor quality. **No Exceptions.**

A2.2 PAYMENT, DELIVERY AND ACCEPTANCE

A2.2.1

A deposit may be remitted with the order not to exceed ten percent (10%) of the total contract amount. A proforma invoice will be required to process and pay the deposit amount.

Prepayments or progress payments for any part or material after contract award may result in a termination of the award. The contract will be given to the next responsible primary manufacturer. It is the intent of this agency to do business with a company of sufficient financial means to meet the financial burdens necessary complete and delivery the vehicle as specified.

Unless otherwise requested, the primary manufacturer shall arrange over the road delivery of the completed vehicle to this agency's designated local address under the vehicles own power. Costs of transportation and preparation are to be included with the price as bid. The primary manufacturer, may as an option, offer a line-item credit for pick up by this agency at their place of manufacture.

Payment in full will be made upon delivery once an inspection of the vehicle by this agency's authorized representative(s) confirms compliance with the specification. The delivery, acceptance inspection, and payment shall take place on the same day. In the event it is deemed necessary for this agency to inspect the vehicle(s) at the primary manufacture location, a temperature-controlled inspection area separate from the production facility shall be available.

A2.2.2

All bid prices and conditions must be specified on the Bid Proposal Form, Refer to Exhibit B.

A2.2.3

Bid prices shall be valid for six (6) months. In the unforeseen circumstance that this agency requires the primary manufacturer to extend pricing requirement; then it will be at the discretion of this agency to request in writing from the primary manufacturer any deviation in prices quoted.

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A2.3 PROPOSAL EVALUATION

Proposals received shall be evaluated by the Purchaser. This evaluation will be based on the following:

- Completeness of the proposal
- Manufacturing and Delivery schedule
- Primary manufacturer's demonstrated capabilities and qualifications
- Primary manufacturer's past performance on similar Bid Proposals
- Primary manufacturer's maintainability and recommendations
- Primary manufacturer's logistical and service support

A2.3.1

Bid proposals taking total exception to these specifications will not be accepted.

A2.3.2

Bid proposals that do not comply with the prescribed method to take exceptions listed in paragraph A1.1.2 will be rejected without further consideration.

A2.3.3

This agency seeks the highest level of value for the cost. To assure this agency is receiving such value the primary manufacturer must submit evidence of compliance with KKK-A1822-F testing parameters. The testing is to be performed by an independent testing facility and verified by person(s) with the standing of Professional Engineer. If further testing is required by any lawful agency of the Federal or State Government, then it shall be incumbent upon the primary manufacturer to provide this agency with certification required.

A2.3.4

This agency also recognizes Ford Motor Company's Qualified Vehicle Modifiers (QVM) accreditation. Therefore, regardless of chassis specifications the primary manufacturer must include with this proposal their current QVM certification.

A2.3.5

Internal testing performed and certified for a primary manufacturer will not be considered by this agency.

A2.3.6

The primary manufacturer may submit certification of all "member in good standing" of any public or private association that may have bearing on this specification i.e., AMD, NTEA.

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A2.3.7

To ensure that this contract is awarded to a primary manufacturer who has the resources to meet the performance and warranty criteria specified herein, the primary manufacturer shall state in the bid proposal if it is a public or private company. If the primary manufacturer is privately held then it shall include the most current financial statement by a Certified Public Accountant not more than twelve (12) months old, or current financial statement of the parent company. If the primary manufacturer is a publicly held company or wholly owned by a publicly held company then it shall state what stock exchange and under what symbol it is traded under. **Bids not meeting this requirement cannot be accepted.**

Note: In performing the evaluation, only information contained within the primary manufacturer's written proposal will be considered.

A2.4 CONTRACT AWARD

The Purchaser reserves the right to increase the number of vehicles or equipment specified under this contract. If awarded, the primary manufacturer agrees that additional agencies may purchase under the same terms and prices afforded by any contract arising from the bid award, unless prohibited by law, within a six (6) month period from the date the contract has been awarded.

A2.4.1

The purchaser has the right to waive any informalities, irregularities, and technicalities in procedure.

A2.5 WARRANTY

This agency is concerned with the ability of the primary manufacturer to warrant the conversion after delivery. This agency expects a minimum of eight (8) year modular construction warranty and twelve (12) months or thirty thousand (30,000) mile full warranty on the conversion. In addition, each manufacturer shall submit their various warranties and warranty options, if applicable, with the proposal for evaluation. Also, each primary manufacturer will supply the name and phone number of a contact person in the event this agency requires clarification of the submitted warranty documents.

The primary manufacturer will provide the location of the closest approved warranty center. Indicate to this agency, in writing, to be included with this proposal; the process to initiate and file a warranty claim.

A2.6 DELIVERY

The primary manufacturer will provide in writing to accompany this document a proposed delivery time. The delivery time proposal will include the transit time of the finished vehicle.

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~~A2.7 BID SECURITY~~

~~Bid proposals shall be accompanied by a Surety Bond in the amount of 5 percent (5%) of the total price of the bid proposal. The Bid Surety shall be made payable to this agency and conditioned upon the primary manufacturer acceptance of award. In the event of failure or refusal to comply, the Bid Surety may be forfeited as liquidated damages because of such failure of default.~~

A2.8 PAYMENT AND PERFORMANCE BOND

This agency reserves the right to seek a one hundred percent (100%) payment and performance bond as a condition of award. Refer to Section

A2.9 INDEMNIFICATION AND INSURANCE

Refer to Section V. of the RFP document (page 5) for the Ogden City's insurance requirements.

A2.10 FAMILIARITY WITH LAWS

The primary manufacturer will be familiar with all Federal, State and Local laws, ordinance, code rules and regulations that may in any way effect the work. Ignorance on the part of the primary manufacturer is not acceptable.

A2.11 PRE-CONSTRUCTION CONFERENCE

The successful primary manufacturer shall be required to hold a pre-construction conference with representatives of this agency to finalize construction details. In the event it is deemed necessary by both parties that the conference be held at a location other than at this agency; the following shall occur. The primary manufacturer will provide adequate transportation, lodging, and meals for two (2) designated personnel from this agency. Further, if the location is in an excess of three hundred (300) miles from this agency's location, the transportation shall be by a commercial air carrier. Private or corporate aircraft may not be used.

A2.12 DRAWINGS

The primary manufacturer shall provide a set of drawings that accurately depict the vehicle as specified. The drawings will show all exterior and interior planes with dimensions. Failure to comply will be deemed non-responsive.

A2.13 EMPLOYEE STATEMENT

It is mandated by the United States Government that all employees currently and to be employed during the duration of this contract are not discriminated against because of their race, creed, color, sex, nationality origin and disability. Further, this agency must be satisfied that the primary manufacturer's labor pool is treated in a fair and equitable manner. Therefore, it will be the responsibility of the primary manufacturer to include a human resource statement outlining employment status, working conditions, and benefits.

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A2.14 ANTI-COLLUSION STATEMENT

By signing this bid, the primary manufacturer agrees that this bid is made without any understanding, agreement or connection with any other person, firm or corporation making a bid for the same purpose and this bid is in all respects fair and without collusion or fraud.

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3.0 TECHNICAL REQUIREMENTS CAB - CHASSIS

3.1 GENERAL VEHICULAR DESIGN, TYPES, AND FLOOR PLAN

The ambulance and the allied equipment furnished under this specification shall be the primary manufacturer's current commercial vehicle of the type and class specified. The ambulance shall be complete with the operating accessories as specified herein. It shall be furnished with such modifications and attachments as necessary and specified to enable the vehicle to function reliably and efficiently in sustained operation. The design of the vehicle and the specified equipment shall permit accessibility for servicing, replacement and adjustment of component parts and accessories with minimum disturbance to other components and systems.

3.1.2

The ambulance shall be a Type I, Class I, and shall be a chassis furnished with a two (2) door conventional cab. The chassis shall be suitable for subsequent mounting of a modular (containerized), transferable equipped ambulance body conforming to the requirements herein.

3.1.3

The design of the vehicle shall utilize a floor plan loading arrangement of patients into the patient compartment. All litters shall be loaded into position with the heads of the patients forward in the vehicle.

3.2 VEHICLE COMPONENTS, EQUIPMENT, AND ACCESSORIES.

The emergency medical care vehicle, chassis ambulance body, equipment, devices medical accessories and electronic equipment to be delivered under this contract shall be standard commercial products, tested and certified, to meet this specification. The vehicle shall comply with all Federal Motor Vehicle Safety Standards (FMVSS) and United States regulations applicable or specified for the year of manufacture. The primary manufacturer shall procure the chassis, components, equipment and accessories as specified and be the current technical data and materials of all suppliers.

3.3 MATERIALS

Materials used in the construction shall be new and meet the quality conforming to this specification. Materials shall be free of defects.

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3.4 VEHICLE OPERATION, PERFORMANCE, AND PHYSICAL CHARACTERISTICS

The following is a description of the cab and chassis that will meet the requirements of this specification. In addition, the chassis will comply with paragraphs 3.4.1 through 3.6.14 of Federal Specification KKK-A-1822F.

Decals will match our current Ambulance fleet. Reference pictures upon request.

3.5 CHASSIS MANUFACTURER AND MODEL YEAR

The chassis shall the requirements of this specifications a 2022 Ford.

3.6 MODEL PHYSICAL CHARACTERISTICS

| | | |
|-------------------------|---|--------------------|
| Vehicle: | Ford Chassis Cab | |
| Body Style: (D4) | Super Duty F-450 Dual Rear Wheel Rapid Red | |
| Drive Train: | Four Wheel Drive 213 Electronic Shift on the Fly | |
| Model Number body code: | F4H Regular Cab 193" wheel base XLT | |
| Gross Axle Weight: | Front 7,000 lb. | Rear 12,880 lb. |
| Gross Vehicle Weight | Rating 16,500 lb. | |
| Engine Type: | 99T 6.7L Diesel V8 with 98R Manual Regen | |
| Displacement | 6.7 liters | |
| Fuel System | Diesel Turbo charged DI | |
| SAE net HP | 330 @ 2600 RPM | |
| SAE net Torque | 750 foot pounds @ 2000 RPM | |
| Wheelbase: | 193 inches | |
| Transmission: | 10 - speed Automatic, Electronic, w/Overdrive | |
| Rear Axle Ratio: | 4:10 Ltd Slip | |
| Tire Size: | LT225/70Rx19.5F, BSW All Season, 2 front, 4 rear | |

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|---------------------------------|---|
| Spare Tire Size: | LT225/70Rx19.5F, BSW All Season |
| Wheels | All including spare, steel 19.5.0 x 6.0 |
| Brakes: | 4-Wheel ABS System |
| Engine Block Heater: | Code 41H |
| Alternators: | Dual HD Alternators, Code 67B |
| Batteries: | Dual, 78-AH 750 CCA |
| Fuel Tank: | Single 40 Gallon, aft of rear axle |
| Cab Seating: | Code 3S-40/20/40 cloth |
| Ambulance Prep. Package: | Code 47L |
| Steering: | Power |
| Stereo entertainment system\ | Sync 3 touchscreen communication and |

4.5 ELECTRICAL GENERATING SYSTEM

The vehicle shall be equipped with the OEM supplied dual HD OEM alternators.

4.6 ENGINE AUTOMATIC HIGH IDLE SPEED CONTROL

The Engine high idle shall be regulated by the OEM supplied high idle speed control. The control shall be mounted in the cab console.

4.7 DRIVER'S COMPARTMENT

The driver's compartment shall be as required by paragraphs 3.9.1, 3.9.2, and 3.9.4 of Federal specification KKK-A-1822-F as well as section 3.0 of this document. The cab shall be equipped with the chassis manufacturer's high back seats. The safety restraint system for the driver and passenger shall be installed by the chassis manufacturer. Modifications or substitutions of the chassis manufacturer's cab seats or restraint system will not be acceptable.

4.8 OUTSIDE REAR VIEW MIRRORS

The vehicle mirrors should be firmly secured, vibration less rear-view mirrors totaling at least one hundred and twenty-five square inches. The mirrors shall be OEM, manually telescoping trailer tow, power/heated glass, integrated clearance lights and turn signals, and a two-way fold.

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Domestic Chassis

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CONVERSION

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Conversion, BOM, Type 1, 170 Module, F450 4x4

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CAB PATIENT COMPARTMENT

The modular body shall be attached to the cab chassis by means of a rubber bellows with one hundred and fifty square inches of open viewing area. The back window of the chassis cab shall be replaced with a painted aluminum insert adhered to the to the back of the chassis cab with an industrial grade adhesive. This procedure must be in strict compliance with chassis builders' guidelines. The entire structure shall be caulked and painted with the process identical as described for the module. The center section of the insert shall incorporate and integral, flange designed to provide a secure installation platform for an expandable rubber boot attaching the cab to the module.

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REAR SUSPENSION

This unit shall have a "Liquid Spring" rear suspension installed by the manufacturer. It shall include electronic controls, automatic height control, kneeler, and OEM sway bar. The dump and fill function shall be operated by opening or closing the left rear door entrance door. It shall have both an enable switch and a dump indicator light in the cab console and shall only operate when the vehicle is in park.

CLASS®, or **Compressible Liquid Adaptive Suspension System**, is the next generation vehicle suspension system. Utilizing a strut, with a compressible fluid as the spring/damping medium, and its sophisticated on-board microprocessor, **CLASS®** adapts the entire vehicle's response to road variations and the driver. Unlike current steel and air sprung suspension systems, **CLASS®** is the only commercial suspension system that can automatically and instantaneously change the spring stiffness and damping at each wheel over a very broad range with minimal power consumption while the vehicle is being driven and without driver intervention.

Changing the spring stiffness and damping at each wheel independently provides the ability to reduce ride harshness while increasing roll and pitch control. The traditional compromises of balancing ride and handling performance in steel and air sprung suspension designs are eliminated. **CLASS®** employs an optimized 5-link suspension configuration that enhances ride and handling versus conventional suspensions. **CLASS®** substantially reduces the impact loading into the vehicle frame and body thereby lowering maintenance costs and extending the vehicle's life.

Aside from operational benefits of improved ride and handling, vehicle manufacturers may also realize benefits. While **CLASS®** is tuned to specific chassis platforms, its software can be tuned to specific applications while using

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the same common suspension hardware for the chassis platform, thus providing greater utilization of a chassis for a variety of body configurations with each one tuned accordingly. A user-friendly driver interface provides a means for minor adjustment of the suspension response to fit operator preferences for certain road conditions.

Compared to typical air systems, **CLASS**® is a closed hydraulic system which eliminates the need for extra add-on components such as air dryers and heaters. Additional standard functional features such as load-leveling, suspension “kneeling”, and diagnostics are built-in.

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CAB FLOORING MATERIAL

The OEM cab carpet shall be replaced with an OEM purchased black rubber flooring.

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HEATER HOSES

Nomex heater hoses shall be installed.

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5U-70-0107

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ENVIRONMENTAL SYSTEMS

The ambulance shall be equipped with heating, ventilating, and air conditioning systems that operate using re-circulated air and ambient air and shall be capable of maintaining interior temperature within the established comfort zone of 68 degrees Fahrenheit to 78 degrees Fahrenheit while operating between 0 degrees and 95 degrees Fahrenheit ambient. Environmental system components shall be readily accessible for servicing at the installed location. The airflow selector switch shall provide a high, medium, and low setting. The switch shall be a common switch for both the heater and air conditioner. These environmental control switches shall be immediately accessible to the attendant while seated in the primary attendant seat located at the head of the primary patient. An external air conditioner is preferred.

Primary manufacturers shall submit testing documentation from an independent laboratory for compliance with Federal Specification KKK-A-1822F with this proposal.

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BATTERY SYSTEM

The vehicle shall be supplied with a dual 12-volt battery system. Two OEM batteries. The battery system shall be wired in accordance with KKK-A-1822-F. The system must meet SAE J541 for starter circuit voltage drop. The batteries shall be activated through the OEM ignition switch. The ignition switch shall only

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turn off power to the module and not to the chassis circuits. When the ignition is shut off a five-minute timer keeps the module powered up for unloading patients. A momentary rocker switch shall be installed which will disable the timer. It shall be labeled TIMER BYPASS. It shall be located on the side of the center console.

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Aluminum Front Console - Linex Black

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ACTION AREA CONSOLE

There shall be a console in the action area of the rear patient compartment house the switches. The console shall be manufactured out of 3/4" Laminated marine grade Plywood and be angled so that the switches will be easily accessible for an EMT in the attendant seat or a CPR seat.

Does your bid comply with this requirement?

Yes () No ()

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Bulkhead,Unigrip,Pass Thru,153/170x72

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WHEEL COVERS

There shall be Phoenix Wheel Covers installed prior to delivery. They shall be model NF19 and shall include the extender kit for the rear wheels, model #AP4, or equivalent.

Does your bid comply with this requirement?

Yes () No ()

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== Type 1 Ford - 170" Module - ==

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This unit shall be built to the KKK-A-1822F specifications including the Change Notice 10 changes dated July 1,2017.

As evidence that the modular ambulance body meets the above criteria, the FSAM's shall furnish a certification that the modular ambulance body meets the testing requirements of SAE J3057.

Installed Oxygen cylinder, suction, cardiac monitor, and fire extinguisher. mounting devices shall meet the performance requirements of SAE J3043.

- 1) All interior enclosed stowage devices shall be tested to their rated weight capacity in accordance with the requirements of SAE J3058.
- 2) Stowage devices shall not come open in transit.

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- 3) Storage for the main oxygen cylinder shall be accessible for replacement from an outside position.
- 4) The oxygen compartment shall be provided with at least a 9 sq. in. of open vent to dissipate/vent leaking oxygen to the outside of the ambulance.
- 5) Oxygen cylinder compartment shall not be utilized for storage of any other equipment.
- 6) All interior enclosed stowage devices shall be labeled with their rated weight capacity.

The installed litter fastener device for wheeled cots shall meet the performance requirements of SAE J3027. The litter fastener device shall be installed according to the litter fastener manufacturer's instructions. The ambulance floor and substructure shall be tested in accordance with the dynamic requirements of SAE J3102.

The ambulance shall have a piped medical oxygen system capable of storing and supplying the minimum requirements in liters of medical oxygen as specified by the purchaser. The installed medical oxygen piping shall be leak tested to 80 PSI. After the successful completion of piping test, the system shall be completely assembled, and the flow rate of the outlets tested with the system pressurized at normal working pressure. The system shall be capped then tagged with date and signature of person and firm performing the tests.

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VEHICLE BODY AND PATIENT AREA

BODY ACCOMMODATIONS

The ambulance body and patient compartment shall be sufficient in size to meet the requirements of paragraph 3.10.1 of Federal Specification KKK-A-1822-F. The interior layout shall be such that a technician can administer life support treatments to at least one person during transport. The modular body shall be (153") one hundred fifty-three inches in length and (95") ninety-five inches wide.

PATIENT COMPARTMENT INTERIOR DIMENSIONS

Length: As measured from the bulkhead to the inside edge of the rear doors at the floor shall be at least one hundred and forty-three inches. There shall be at least (25") twenty-five inches but not more than (30") thirty inches of clear space at the head of the primary patient, measured from the face of the backrest of the attendants to the forward edge of the style one cot.

Width: Shall be measured after the installation of the street side cabinets will be (44 3/4") forty-four- and three-quarter inches between the cabinet wall and the face of the squad bench.

Height: The patient compartment shall provide at least (66") sixty-six inches of height over the primary patient area from the floor to the ceiling.

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GENERAL BODY CONSTRUCTION

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It is the intention of this agency to specify a modular body that is constructed solely of aluminum including side skins, roof skin, all structural box tubing, corner, and roof extrusions, tapping plates, gusset plates, retention plates, doors, door extrusions, sub structure moisture barrier and drip rails. The modular shall be engineered, built, and warranted by the primary manufacturer. This agency will not accept a proposal from a primary manufacturer, as defined within this document, that supplies a modular from an agency, builder, supplier, other than the primary manufacturer. This section shall be the construction parameters this agency has deemed as fair value. Primary manufacturers that deviate from these specifications may take exception as set forth in section A1.1.2.

The exterior of the body shall be constructed utilizing a full six-sided box framework with a combination of high strength 6061-T1 and 6063-T6 alloy aluminum and having an outer surface of aluminum sheet with a temper and alloy of 5052-H32 for strength, weld integrity and corrosion resistance. The front, sides, and rear of the modular shall be configured from a single sheet of .090 aluminum. The one-piece sheets shall be used to maximize integrity against dust, toxic fumes, cracking, and moisture penetration. The openings for doors, warning lights and exterior compartments shall be cut on the horizontal plane with a computer-controlled plasma cutter for accuracy and integrity of temper. The roof and side skins shall be installed utilizing a very high bond adhesive to allow absorption of vibration and to eliminate "panning". The skins shall be welded to the interlocking extrusion framework at the outer perimeter of the sheets by a programmable robotic welder using a MIG welding tip and Argon gas or by a certified welder.

The roof shall be a single .090 sheet of 5052-H32 alloy aluminum. The roof sheet shall be completely welded to the extruded roof assembly. The use of multi-section roofs shall not be acceptable due to the possibility of cracks causing environmental intrusion.

The roof substructure assembly shall consist of four perimeter roof rail extrusions, lateral roof bows and interconnecting corner caps. The roof rail extrusions shall be engineered and designed by the primary manufacturer and shall be double hollow of 6063-T6 .125 aluminum, an integrated roof recess shall be incorporated to create a smooth transition from the one piece roof sheet to the perimeter drip rail. The perimeter drip rail shall be extruded as a design feature of the roof rail extrusion. The roof rail extrusion shall overlay the side skin by one half inch. The roof sheet shall be seam welded to the perimeter roof extrusion. The lateral roof bows shall be two inches by two inches by .125 square extrusions of 6061-T6 alloy aluminum. The structural members shall be located to support the roof skin on fourteen inches between roof bows. The roof bows shall interconnect with the roof rails and be continuously welded at all contact points. The finished roof shall incorporate a machine rolled crown of not less than one and half inches in height to provide additional strength and allow water runoff. A one inch by two inches by .125 6063-T6 extrusion shall be secured to the top of the vertical extrusions. The perimeter extrusion shall be welded to the vertical structures with a minimum of six inches of weld. An industrial adhesive shall be applied around the perimeter before the roof assembly is mated to the sill. The roof structure shall be attached to the sill and welded. To ensure a

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complete contact with the industrial adhesive mechanical fasteners shall be employed to cinch the roof structure to the sill.

The corner caps shall be designed to interlock with the roof perimeter, vertical corner extrusions and roof sheet. The corner caps shall be cast aluminum made from matched metal dies to insure a smooth and pleasing appearance. The caps shall act as a stress relief device to absorb energy and disperse the force along the roof extrusions in the event of a collision. The outer edge DOT lights shall be installed as described in section 5.1.

The corners of the modular body shall be designed and engineered by the primary manufacturer and constructed of 6063-T6 alloy aluminum. The corner extrusion shall be double hollow with a minimum thickness of .125 and .250 at the outer corner. The extrusion is designed with a unique forty-five-degree angled appearance while maintaining very high strength and impact energy absorption. A polyurethane sealer shall be applied to seal the crevice between the corner extrusions and the side assemblies.

The side assemblies shall be reinforced utilizing 6061-T6 alloy aluminum two by two box tubing. The side structures shall frame a perimeter around all door openings and shall be a minimum or .125 in thickness. Intermediate skin stiffeners shall be located to preclude skin deformation. Additional gusset plates shall be .250-inch aluminum and shall be welded at all contact points between the corner assembly and the roof perimeter.

This agency is extremely concerned with purchasing a vehicle from a primary manufacturer who can provide the necessary service after sale. Therefore, as previously stated the modular shall have an eight-year warranty and be engineered, designed and built by the primary manufacturer.

This agency is extremely concerned that the modular body be designed and built with the highest level of integrity and quality. Documentation and certification that the modular body being proposed meets Static Load Test Code for Ambulance Body Structure AMD Standard 001 must be included with this proposal.

Quality and Safety Documentation.

The ambulance manufacturer responding to this vehicle specification shall demonstrate to this Agency that the ambulance being proposed offers the highest possible quality and safety standards.

To meet this Agency's requirements for quality the Bidder shall provide documentation that the ambulance manufacturer has in place a quality management system that meets the requirements of the International Organization for Standardization (ISO). A copy of the ISO Registration Certificate shall be included in the bid response.

To meet this Agency's requirements for safety standards the Bidder shall provide documentation that the ambulance manufacturer has conducted "dynamic" testing to validate the design, manufacturing processes, materials and

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workmanship used in the production of the ambulance proposed in response to this specification.

To validate the materials, manufacturing processes, quality management system and workmanship utilized in the installation of seats, seat belts, secondary restraining devices, cabinet construction, oxygen cylinder retention and module to chassis attachment a sled test shall be performed. This test shall simulate a frontal impact to the ambulance module at a minimal impact force of 20 g. A test report from a third-party testing agency independent of the ambulance manufacturer shall be submitted with the bid response proving compliance to this requirement.

To validate the materials, manufacturing processes, quality management system and workmanship utilized in the construction of the modular body the Bidder shall provide documentation that the ambulance manufacturer has conducted a side impact crash test. The Institute for Highway Safety (IIHS) Crash Test Protocol Version 5 shall be used as a guideline for this testing requirement.

The “target” vehicle (Ambulance) shall be struck by the “bullet” (SUV / Pickup Truck) vehicle at the fore and aft center of gravity of the target vehicle. To comply with the requirements of this specification the bullet vehicle shall be a SUV or pickup truck with a minimum gross vehicle weight (GVW) of at least 4,000 lbs. To provide this Agency accurate data in a “real world” environment the use of a Moving Deformable Barrier (MDB) and cart as the “bullet” vehicle is not permissible.

The “target” vehicle (Ambulance) shall contain instrumented Anthropomorphic Test Devices (crash test dummy) meeting the following requirements and seating locations.

1. Squad Bench Hybrid 3 ATD instrumented with head, chest, and pelvic accelerometers, upper neck load cell, chest potentiometer, and femur load cells.
2. Ambulance Cot - Hybrid 3 ATD instrumented with head, chest, and pelvic accelerometers, upper neck load cell, chest potentiometer, and femur load cells.
3. Street Side CPR Seat - Hybrid 3 ATD instrumented with head, chest, and pelvic accelerometers, upper neck load cell, chest potentiometer, lumbar load cell, and femur load cells.
4. Attendant Seat EuroSID 2 ATD instrumented with head accelerometers, upper neck, abdomen, and pubic load cells, and rib potentiometers.

For the purpose of determining **PASS FAIL** results the Injury Assessment Reference Values (IARVs) from FMVSS 208, FMVSS 214 and the Insurance Institute for Highway Safety (IIHS) shall be used. A test report from a third-party testing agency independent of the ambulance manufacturer shall be submitted with the bid response proving compliance to this requirement.

The above requirements are in addition to the current minimum requirements for testing as outlined in KKK-A-1822.

Additionally, 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.

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All body welds shall not only be inspected by the primary manufacturer but shall also be inspected by an outside engineering firm and said firm shall conduct another visual inspection and a dye penetration test designed to reveal any flaws or imperfections in the welds. Documentation on this process must be provided if requested.

One (1)
35-05-0065

Y ___ N ___

VEHICLE BODY STRUCTURE

All parts of the ambulance body, as specified in paragraph 3.10.6 of Federal Specification KKK-A-1822-F, shall, where applicable, be of welded construction. Where fasteners are used in such areas as hinge attachment, hardware attachment, etc., the fasteners shall be ceramic coated aluminum and stainless steel. Any hole drilled into the modular body painted surface shall be coated with an ECK corrosion inhibitor prior to installation of the part.

Tapping plates of 6061-T6 alloy aluminum varying in widths of one quarter to one half inch shall be welded to the framing to secure the installation of equipment such as; cabinets, benches, partitions, cylinders, cot fasteners, etc. The body and panel joints shall be watertight and all openings between the chassis and modular shall be sealed. In addition, a drip rail shall be supplied over each exterior compartment. The drip rail attached in such a manner as to provide for quick and easy replacement. Drips rails attached by mechanical fasteners shall not be used.

BODY MOUNTING

The mounting system shall not cause any chassis frame deformation. There shall be ten mounting points, five on each frame rail. The modular body shall have full perimeter welded sill rails of one-half inch by two inch of 6061-T6 alloy aluminum and be attached to the vehicle utilizing one inch by three inch sill plates of 6061-T6 alloy aluminum. The modular body shall be welded to the sill plates at every exposed seam. At all outrigger mounting locations a double compression, neoprene rubber isolator mounts shall be used to minimize chassis vibration transfer to the modular body. The modular body and sill plates shall be attached to the frame rails using three quarter inch grade eight bolts. Any method contrary to QVM which may void the chassis warranty shall not be accepted.

FLOOR

The floor shall be at lowest level permitted by clearances, but not more than thirty-three inches from the ground. The floor structure shall consist of two by two by .125 structural box section with 6061-T6 alloy aluminum. The floor structure shall be welded with eight inches of weld at every joint. The openings created for the placement of exterior compartments shall have six inches of weld to ensure a smooth surface to fit the compartment in the structure. Tapping plates of one quarter inch and one-half inch of 6061-T6 aluminum shall be completely welded both sides to the floor assembly. The finished floor assembly shall be securely welded to the wall structures with eight inches of weld and skipped welded every four inches to the exterior compartments. All critical load points shall be reinforced with one quarter inch by three inches by four-inch gusset plates. Above the floor channels there shall be an aluminum moisture shield .050 inches

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thick. The entire underside of the modular shall be sealed with a waterproof sealant. All hollow structural shapes or cavities shall be sealed utilizing an approved expandable foam.

The rear patient access shall be equipped with an exterior aluminum threshold mount to the lower door jamb. This threshold will protect the bottom door jamb, in addition the rear patient floor shall have a fourteen-gauge stainless steel cot protector.

EXTERIOR STORAGE ACCOMMODATIONS

The exterior compartments shall be constructed of .090 aluminum and shall be formed by a computer-controlled brake and shear to decrease the amount of welding to fully enclose the compartment. The compartment, therefore, shall be watertight. The compartment shall be welded in place to the side and floor structure with an additional bracket welded to a bracket connecting the exterior wall two with the floor structure. The floor of the exterior compartments shall be at least two inches below the lower door frame lip to help prevent equipment from falling out should a door not be closed. The compartment floor shall be supported from beneath with one by two by .125 6061 T-6 rectangular tubing welded to the underside and the floor structure. All exterior compartments shall be vented above the floor line with machine stamp louvers. The exterior compartment shall be lockable with one key fitting all doors. The compartments shall be equipped with handle and door locks. Each exterior compartment shall be provided with a sealed light to be illuminated upon the door opening. The light shall be activated by a magnetic switch. A door open indicator light shall be visible on the driver's console. The compartment configuration shall be as described. All exterior doors must lock with one control button such as a key fob or door lock switch.

PATIENT COMPARTMENT SOUND LEVEL

Shall meet the requirements of paragraph 3.13.8 of Federal Specification KKK-A-1822-F.

One (1)
35-05-2000

Y__N__

INTERIOR SURFACES

All vertical edges of cabinets shall be of an aluminum extrusion with a $\frac{3}{4}$ inch radius designed to free the interior of the patient's compartment of all sharp edges or projections. The face and inside of the cabinets shall be covered by a commercial grade laminate, 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.

CABINET CONSTRUCTION

The interior cabinets, squad bench assembly, shelves and doors shall be constructed of Marine Grade 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

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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 3/4 inches including mica and adhesive. Any construction materials that provide anything less than 3/4-inch panels in cabinet construction is not acceptable to this agency.

The squad bench lid shall be attached to the squad bench assembly via a stainless-steel hinge(s) the entire length of the bench. The squad bench shall be equipped with a locking device to automatically secure the lid upon closing. The patient compartment wall panel (behind the squad bench) and the cab compartment wall panel shall be constructed of 1/4-inch plywood and covered with color coordinating high pressure laminate.

The cabinets shall be constructed using 8 mm dowels placed no farther than 32 mm apart. The dowels shall be a hardwood and pre-glued. There shall also be .063 Aluminum corner gussets and fishplates installed in key points along the cabinet seams for additional strength.

The wood doors on the cabinets shall be flush mounted using continuous stainless-steel hinge(s) and a 3 mm edge banding. All doors and cabinet openings shall be covered with a 3 mm edge banding with radius edges.

INTERIOR STOWAGE ACCOMMODATIONS

The interior of the patient compartment shall provide but not be limited to a minimum volume of thirty cubic feet of enclosed cabinets. Each cabinet shall be labeled as to its rated weight capacity. Interior cabinet, shelf and compartment space shall be conveniently located for medical supplies, devices, or other equipment. All interior cabinets shall be fully lined inside with high-pressure plastic laminate. The equipment and supplies necessary for airway management shall be within easy reach of the medic at the head of the stretcher. Interior cabinet dimensions are as described.

One (1)
35-10-0320

Y__N__

MODULE BODY SKINS

The module skins shall all be 0.125 inches thick.

One (1)
35-10-0502

Y__N__

INTERIOR HEADROOM

The interior headroom shall be a minimum of 72 inches.

One (1)
35-10-0990

Y__N__

There shall be a dogleg in the compartment "E" to allow the suction container on the interior to be recessed into the face of the action area.

One (1)
35-11-0200

Y__N__

DROP SKIRT

The skirt line forward of the rear wheels on both sides of the module shall be dropped 4 inches.

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Six (6)
37-00-0350

Y__N__

RUBBER COATING

The interior of the compartments shall be sprayed with a Polyurethane rubber coating in a gray color. The product has high tensile strength, excellent abrasion resistance, superior elongation, high non-skid rating, and excellent UV stability and weathering characteristics.

One (1)
37-00-0360

Y__N__

RUBBER COATING

The rear bumper supports shall be sprayed with a Polyurethane rubber coating in a black color. The product has high tensile strength, excellent abrasion resistance, superior elongation, high non-skid rating, and excellent UV stability and weathering characteristics.

Four (4)
37-00-0500

Y__N__

EXTERIOR COMPARTMENTS

The bottom of compartments B1, B2, D and E shall drop down 3 inches from the door opening for maximum storage space in the compartment. This will also help prevent items stored in the compartment from falling out if on uneven surface.

Two (2)
37-00-0600

Y__N__

EXTERIOR COMPARTMENTS

The bottom of compartments C-1 and S-1 shall be flush with the door opening to provide for a sweep out design. Sweep out on compartment F shall allow for ease of loading the oxygen bottle.

One (1)
37-00-0710

Y__N__

Doors

All door frames to be cut to size using a programmable double miter saw to assure accuracy and repeatability of components. All latch, door pins, switch and tapped hinge holes are to be added to door frame and jamb by means of a programmable milling operation to maintain consistency of all hardware cutout positions.

The outer face of door shall be formed from one sheet of 5052-H32 aluminum. The door shall be flush with the body side. The outer skin shall be bonded to the door frame with structural adhesive that meets ASTM D 412 tensile strength, elongation, and elastic modulus. Adhesive to utilize micro spheres to maintain a constant bond thickness around the inside skin edge to seal entire skin to frame. The door frame shall meet exterior skin with a smooth seamless transition. There shall be no seams or crevices on the door or door frame which allows the possibility of corrosion.

Both patient compartment and exterior compartment doors shall be provided with extruded rubber seal system consisting of a hollow cell bulb gasket. The gasket shall insert into an appropriately designed groove in the inner door extrusion. This will provide the best seal possible. Glued on seals or seals that are mounted

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to the compartment openings are unacceptable as they will easily be torn by loading of equipment stored in the compartments.

All doors shall be attached using minimum ¼-20 stainless steel hex bolts with stainless steel piano hinge with a pin size of at least 0.250 inch in diameter. The hinge must be punched with 0.265 diameter holes for exact fit of door to jamb with ¼- 20 hex bolts. Maintaining the close tolerances allows a replacement door to be fabricated that will match the old door bolt pattern that can be mounted in exactly the same place with the close tolerances.

All compartment doors shall be constructed the same as the entry doors to ensure continued door alignment and matched latching capabilities. All access doors must be encased by a door jamb that is separate from the body skin and bonded in place with the same structural adhesive as described in paragraph two on page one. After jamb is bonded to skin both skin and jamb are to be routed with the same radii as the door skin. After bonding to skin, the jamb is also welded to the 2" X 2" tubular body frame members. The door jamb shall be a 0.125"/0.380 thick 6063-T6 aluminum extrusion.

The interior surface of the patient compartment doors (rear and curb side) shall be finished in a safe and attractive manner that harmonizes with the interior finish. The door panels shall be designed to allow removal without disturbing the door latching hardware. The door panels shall be attached using automotive speed clips in conjunction with foam pads to enhance sound deadening. Door panels must be flush fitting, not overlay. Doors using pliable materials such as upholstery are prohibited due to greater risk of contamination by blood borne pathogens through stitching or when cut or torn.

The three (3) patient compartment doors shall be fitted with stainless steel, flush fit, "paddle latch" hardware on the interior and an "automotive style" handles on the exterior. The patient compartment doors shall be provided with a keyed lock and the rear doors and side door shall be lockable from the inside without a key per FVMSS. All patient compartment doors shall have emergency release handles to activate rotary latches in the event of door component failure.

All entry and compartment doors shall be insulated with 2-1/2" thick closed cell block foam insulation.

When the doors are opened, the hinges, latches and door checks shall not protrude into the access area. All patient compartment doors shall employ the same type locking hardware. All door latches shall comply with requirements of FVMSS 206.

The locking devices shall be two-stage rotary latches and shall be FMVSS 206 certified. Where applicable there shall be two door latches, one at the top and one at the bottom, controlled by a single locking handle. The Latches shall fit into an adjustable "Nader" type pin located in the door frame. The Nader pin will utilize a captive nut to provide adjustment and replacement without loss of nut plate. The locking system shall be activated from the locking handle by metal push rods.

The outside door handles shall be a rugged "automotive style" that are near flush with door skin. These handles shall provide adequate clearance for the use of gloves. The hand/ glove clearance area of the handle shall be a minimum of .812" deep and 4.125 long. On the curb side and rear doors, the inside handle shall be a "paddle style" type constructed from stainless steel and shall be

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equipped with an inside door lock. All exterior storage compartments and module entry doors shall be lockable with the same key.

The compartment and entry doors shall be painted separately from the body. The doors shall then be installed on the painted module jamb. A Corrosion inhibitor shall be applied to both the door frame and jamb side of the hinge leaf's. Additional corrosion inhibitor to be applied in all screw holes in both door frame and jamb.

One (1)
39-A0-0377

Y__N__

COMPARTMENT A

Compartment A is the passenger side forward compartment. The door opening dimensions shall be a minimum of 65.5 inches high and 16 inches wide.

One (1)
39-B1-0155

Y__N__

COMPARTMENT B1

Compartment B1 is on the passenger side just behind the rear wheel. The door opening dimensions shall be a minimum of 19.25 inches high and 15 inches wide. The interior dimensions shall be approximately 22.5 inches high and 16.5 inches wide and 18.75 inches deep.

One (1)
39-B2-0177

Y__N__

COMPARTMENT B2

Compartment B2 is the passenger side rear compartment. The door opening dimensions shall be a minimum of 81.75 inches high and 22 inches wide. The interior dimensions shall be approximately 85.0 inches high and 24.75 inches wide and 18.5 inches deep.

One (1)
39-D0-0355

Y__N__

COMPARTMENT D

Compartment D is the driver side rear compartment. The door opening dimensions shall be a minimum of 58.5 inches high and 32.25 inches wide. The interior dimensions shall be approximately 62 inches high and 36.5 inches wide and 18.5 inches deep.

One (1)
39-E0-0105

Y__N__

COMPARTMENT E

Compartment E is on the driver side just forward of the rear wheel. The door opening dimensions shall be a minimum of 36 inches high and 39 inches wide. The interior dimensions shall be approximately 38.75 inches high and 40.5 inches wide and 18.5 inches deep. The compartment shall have double doors.

One (1)
39-F0-0305

Y__N__

COMPARTMENT F

Compartment F is the driver side forward compartment. The door opening dimensions shall be a minimum of 80.5 inches high and 18.25 inches wide. The

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interior dimensions shall be approximately 81.5 inches high and 18.5 inches wide and 18.5 inches deep.

One (1) Y__N__
39-F0-0610

Without Dogleg for Stairchair in Compt "F"

One (1) Y__N__
3A-10-1000

FUEL FILL HOUSING

A cast aluminum fuel fill housing shall be installed according to the chassis manufacturer's instructions.

One (1) Y__N__
3F-10-1101

EXTERIOR VERTICAL DIVIDERS

One (1) vertical divider(s) shall be located in compartment B2. They shall be manufactured of 3/16-inch-thick aluminum and be painted with scratch resistant gray rubber coating. The divider shall be approximately 11 inches wide and extend from the top of the compartment to the bottom.

One (1) Y__N__
3F-20-1000

EXTERIOR COMPARTMENT SHELF

The exterior compartment shelves shall be manufactured from 0.125-inch aluminum. Each shelf shall have a 0.125-inch-thick ribbed rubber mat. The shelf track shall be a heavy-duty extruded aluminum. There shall be a shelf in the RF Compartment/Cabinet.

One (1) Y__N__
3F-50-0200

EXTERIOR ELECTRICAL SHELF

A fixed exterior shelf shall be located in the left center compartment "E" near the top of the compartment. It shall serve the sole purpose of holding electrical equipment.

One (1) Y__N__
3P-10-5201

STEP WELL AND WINDOWS

The curb side doorstep well shall have a light recessed into wall one of the step well. It shall be automatically lit when the side and rear doors are opened. The light shall be activated by a switch. The step well shall be finished with a polished aluminum diamond plate. There shall be a window in each of the three patient access doors. The window frame shall be of an extruded aluminum design with a protective anodized finish. The curbside entry door window shall include a sliding window to allow for fresh air when needed. The two rear door windows shall have fixed glass. The glass shall have a privacy tint.

The curbside window shall have the following dimensions: 26 1/2 inches high and 19 1/2 inches wide. The rear windows shall be 22 1/2 inches high and 13 1/2 inches wide.

One (1) Y__N__
3U-30-8000

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PATIENT ENTRY DOOR LATCHES, HINGES AND HARDWARE

When the doors are opened, the hinges, latches and door checks shall not protrude into the patient compartment. All patient doors shall employ the same type of locking hardware. All door latches shall comply with FMVSS 206. The locking devices shall be two stage rotary latches and shall be in accordance with FMVSS. There shall be two door latches, one at the top and one at the bottom, controlled by a single locking handle. The latches shall lock into an adjustable Nader type pin located in the door frame. The Nader will utilize a captive nut to provide adjustment and replacement without loss of the nut plate. The door latching mechanism shall have an upper and lower patented "Emergency Release Latch" to allow egress from the vehicle if a system failure should occur.

The door handles shall be Trimark OEM style handle with a large 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. The locks shall be a KeyOne Plus lock cylinder with a reversible key. The KeyOne Plus system allows the lock core to be removed with a special key and allows it to be rekeyed for additional security and keying fleets the same. The rear trailing door shall have a patented side release paddle handle that removes the necessity of reaching inside the patient compartment door. The door entry system shall have been tested to 100,000 cycles.

The locking system shall be from the locking handle by aluminum push rods. The patient compartment doors will be equipped with an inside door lock. All entry doors shall have horizontal aluminum reinforcements welded to the door frame and the entry doors shall have closed cell block foam insulation.

Six (6)
3U-40-0510

Y ___ N ___

COMPARTMENT DOOR LATCHES, HINGES AND HARDWARE

When the doors are opened, the hinges, latches and door checks shall not protrude into the patient compartment. All compartment doors shall employ the same type of locking hardware. All door latches shall comply with FMVSS 206. The locking devices shall be two stage rotary latches and shall be in accordance with FMVSS. There shall be two door latches, one at the top and one at the bottom, controlled by a single locking handle. The latches shall lock into an adjustable Nader type pin located in the door frame. The Nader will utilize a captive nut to provide adjustment and replacement without loss of the nut plate.

The compartment door handles shall be Trimark OEM style handle with a large 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. The locks shall be a KeyOne Plus lock cylinder with a reversible key. The KeyOne Plus system allows the lock core to be removed with a special key and allows it to be rekeyed for additional security and keying fleets the same. The compartment door entry system shall have been tested to 50,000 cycles. The door handle shall be mounted to the exterior door panel using mechanical fasteners and rubber gaskets that will eliminate the possibility of electrolysis. All doors shall have closed cell block foam insulation.

Two (2)
3U-60-1390

Y ___ N ___

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POWER DOOR LOCKS

The module entry doors shall include power door locks that enable remote activation.

Six (6)
3U-60-1400

Y__N__

POWER DOOR LOCKS

The six (6) compartment doors shall include power door locks that enable remote activation.

One (1)
3U-60-1500

Y__N__

A momentary rocker switch shall be located as determined by this Agency and enable the power door locks for the compartment and entry doors.

One (1)
3U-60-2500

Y__N__

A stealth switch shall be located in the grille area unless otherwise specified by this Agency and enable the power door locks for the compartment, entry, and cab doors. The switch must be weather resistant.

One (1)
40-10-1611

Y__N__

REAR DOOR HOLD OPENS

The rear doors shall be held open by (2) 5.5-inch Cast Grabber. The U-shaped piece shall be attached to the door. It shall enter into a rubber insert when the door is in the open position. A corrosion inhibitor shall be applied to the mounting holes prior to installation.

Six (6)
40-10-7200

Y__N__

COMPARTMENT DOOR HOLD OPEN

Six (6) Compartments shall have a 30-pound gas strut in lieu of a spring loaded hold open.

One (1)
40-10-7205

Y__N__

COMPARTMENT DOOR HOLD OPEN

The right front compartment shall have a 30-pound gas strut in lieu of a spring loaded hold open.

One (1)
40-10-7750

Y__N__

CURBSIDE ACCESS DOOR HOLD OPEN

The curbside access door shall have a gas strut hold open to hold the door at approximately 90 degrees.

One (1)
45-10-4520

Y__N__

DOOR PANELS

The upper and lower portion of the curbside and rear access door panels shall be brushed stainless steel. The center shall be reflective chevron covered

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aluminum. The lower panel shall have the Brand logo cut out of the panel and an insert with reflective 3M material installed behind the panel.

One (1)
4A-10-3001

Y__N__

REAR FENDERS

Bright finish aluminum fender flares shall be provided around the rear wheel well openings to provide protection from wheel wash. A corrosion inhibitor shall be applied to the mounting holes prior to installation.

One (1)
4F-10-1101

Y__N__

BUMPERS AND STEP

The chassis manufacturer shall supply the vehicle's front bumper. The rear bumper and step assembly shall be a single unit constructed of ten-gauge steel "C" formed channel and .100-inch-thick aluminum tread plate as measured at the thinnest point of the tread plate. The center step of the bumper assembly shall be designed to allow it to flip up and out of the way to facilitate patient loading. The flip up section of the of the rear bumper shall be diamond plate to meet the requirements of KKK-A-1822-F specification. The diamond plate flip up step shall be punched with three rows of raised star-shaped holes to create additional non-skid surface. A 1.5" x 2" x 0.125" aluminum box tube shall be welded inside the step full width on the side farthest from the rear of the vehicle. A stainless-steel hinge with a center pin of .250 inch shall be used to attach the flip up section of the rear step to the main rear bumper assembly. There shall be eye beam constructed skid plates with tow eyes mounted as part of the frame of the bumper. This assembly shall be bolted to the frame of the chassis with 5/8-inch Grade 8 bolts. There shall be a one-half inch clearance between the bumper assembly and the rear of the modular body to allow water drainage and inhibit water collection. There shall be a two-inch red LED marker light on the street side and curb side of the bumper assembly. These lights shall be a sealed unit and the connectors protected with an adhesive heat shrink. The lights shall illuminate with the vehicle head light control.

One (1)
4K-10-2112

Y__N__

RUNNING BOARDS

Diamond plate running boards shall be installed just under the cab doors for both the driver and passenger. The diamond plate step shall be punched with rows of raised star-shaped holes to create additional non-skid surface. The boards shall allow for easy entry into the cab.

One (1)
4U-10-9250

Y__N__

SKIRT RAILS

Skirt rub rails will be installed to protect the lower body and will extend the entire length of the body on the curb and street sides, exclusive of the wheel well area. They shall be made from custom 'C' channel that is cut at 45-degree angles on the ends. The rub rail shall be bolted to the lower side wall panel with 1/4" nylon spacers. A corrosion inhibitor shall be applied to the mounting holes prior to installation.

One (1)

Y__N__

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4U-10-9500

SKIRT RAIL REFLECTIVE TAPE

Reflective tape shall be inserted into channel in extruded rubber skirt rail and secured with stainless steel screw at each end. Color shall be determined at a later time with attached pictures for approval.

One (1)

Y__N__

4U-11-5000

FRONT STONE GUARDS

The lower front corners of the patient compartment shall have stone guards attached to the corner extrusion. They shall be diamond plate aluminum and extend from the bottom edge of the corner extrusion up approximately 17 inches. A corrosion inhibitor shall be applied to the mounting holes prior to installation.

One (1)

Y__N__

50-10-0A07

REAR KICK PLATE (Under-ride)

Above the rear bumper and below the rear doors, there shall be a full-length riser of aluminum diamond plate for a protective kick panel. The kick panel shall be securely fastened with ceramic coated stainless-steel screws to inhibit rust that could result from electrolysis and run the full rear width of the module. Pop rivets are not acceptable. This kick panel shall be above the rear bumper height to allow the bumper to ride under the module in case of a minor collision minimizing damage to the module. There shall be a 1/4-inch-thick rubber flap secured to the bottom of the kickplate and extending below the top of the bumper to prevent road debris from accumulating on top of the bumper pods.

One (1)

Y__N__

55-10-3050

LICENSE PLATE HOLDER

A Cast Products license plate holder shall be installed in the rear kickplate.

One (1)

Y__N__

55-30-4001

COMPARTMENT SILL PROTECTORS

All compartments shall have a stainless-steel sill protector. The sill protectors shall be manufactured from 20-gauge stainless steel and cover the bottom door frame protecting it from scratches.

One (1)

Y__N__

55-90-6000

STEP WELL

The curbside entry stepwell shall be a double step due to the drop skirt making the initial step lower and therefore not ergonomic for entry into the vehicle. The steps shall be approximately equal in rise and run.

One (1)

Y__N__

55-90-6100

THRESHOLDS

The curbside and rear entry thresholds shall be stainless steel coated on the upper side with a black poly-urea coating to help prevent slipping. This coating

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shall be a permanent spray on coating not a grip tape adhered to the stainless steel.

One (1)
5A-10-1001

Y___N___

REAR MUD FLAPS

Mud flaps shall be installed just behind the rear tires.

One (1)
5F-10-0000

Y___N___

PREPARATION FOR PAINTING, COLOR AND MARKINGS

10.1 Color, Paint and Finish. Ambulance body and all attached equipment exterior surfaces, except polished metal parts, shall be thoroughly cleaned, treated, and coated with a firm primer and preservative with rust inhibiting properties, and painted to match the OEM chassis. Ferrous metal interior surfaces shall be painted or, when not exposed for painting, shall be treated, or coated to resist corrosion.

The final stage manufacturer's painted components shall have a paint film not less than 1.25 mils. thick and a minimum total thickness of 4 mils., including primers. The final film of painted surfaces shall be smooth and uniform, free of grit, streaks, blushing, runs, sagging, blisters, "fish-eyes", "orange peel", pinholes, or other surface irregularities. Exterior finish paint shall not be required on the underbody and inside surface of the body skirting. The modular body shall be painted with an AkzoNobel (or equal) high quality automotive polyurethane acrylic paint.

10.1.1 All modular body doors shall be removed prior to paint and shall be painted separately from the modular body. After painting, the doors are to be re-installed. The doors shall be painted using the same method as the modular body.

10.2 Modular Body Preparation. The entire exterior of the modular body shall be cleaned and prepared for painting according to the following minimum requirements:

10.2.1 Substrate Preparation:

- The modular body shall be thoroughly degreased using an acetone degreaser and the wipe on – wipe off method.
- Any areas that require filling will be first be abraded with 80 grit sandpaper using a DA orbital sander. If any welds require grinding, 24 grit paper shall be used. Any plastic filler used shall be mixed and applied per Manufacturer's instructions. After filler application, the surface shall be prepared using 80 grit sandpaper followed by 120 grit paper using a DA orbital sander.
- A minimum of two (2) coats of Wash primer EMCF shall be applied to all plastic filler areas allowing to flash five (5) minutes between coats.
- The Wash primer shall be sanded with 320 grit sandpaper using a DM orbital sander.

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- A fine textured glazing putty shall be used to fill any additional surface flaws, pinholes and/or scratch marks. After curing, the surface shall be sanded with 320 grit sandpaper using a DA orbital sander.
- The substrate shall be sanded with 180 grit sandpaper using a DA orbital sander to remove any final imperfections.
- The modular body shall again be thoroughly degreased using M-600 degreaser and the wipe on – wipe off method.
- All corner extrusions and the top drip rail to be caulked, as necessary.

10.2.2 Aluminum Pretreatment. The modular body shall be pretreated with a chromium free conversion coating that is specifically formulated for treating aluminum and its alloys. Prior to the pretreatment application, all diamond plate is to either be removed or properly masked to prevent staining. After application, the modular body shall again be thoroughly degreased using M-600 degreaser and the wipe on – wipe off method.

10.2.3 Wash Primer. The modular body shall be primed with a medium build, chromate-free, self-etching wash primer that offers excellent corrosion resistance without the use of metal preps and conditioners. There shall be a minimum of two (2) medium wet coats applied allowing a five (5) minute flash between each coat. The final coat shall be allowed to flash for 30 minutes. The primer shall be sanded with 320 grit sandpaper using a DA orbital sander or 400 grit dry sandpaper by hand. After sanding, the modular body shall again be thoroughly degreased using M-600 degreaser and the wipe on – wipe off method.

10.2.4 Sealer. To enhance the adhesion between the substrate and topcoat of paint, a transparent sealer/adhesion promoter shall be applied to the modular body. A minimum of two (2) wet coats of sealer shall be applied. The initial coat shall be allowed to flash 10 minutes before the application of the second coat. Once the sealer has cured, the body is to be sanded smooth with 320 grit sandpaper using a DA orbital sander.

10.2.5 Topcoat. The topcoat of paint shall be a high solid two-component polyurethane enamel, suitable for automotive refinishing, trucks and equipment. Paint shall provide an easy application with excellent flow along with superior gloss and durability in a two-coat application.

10.2.6 Final Sand and Buff The entire exterior surface of the module shall be sanded with a minimum 1200 to 1500 grit sandpaper and then followed by 3000 grit wet sandpaper. The exterior of the module will then be polished using the 3M 3000 buffing system with 3M Perfect-It III buffing compound to provide a smooth, high gloss final surface finish. This process shall provide a smooth, high gloss finish that is resistant to scratching and chipping. If proper vehicle care is taken.

10.3 Color Standards and Tolerances. Shall be as required by paragraph 3.16.2.1 of Federal Specification KKK-A-1822F.

10.4 Salt Spray Resistance. Shall meet the requirements of paragraph 3.16.3 of Federal Specification KKK-A-1822F.

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Y___N___

One (1)
5F-10-0800

5V-10-0000

Paint to match OEM Codes

ELECTRICAL SYSTEMS AND COMPONENTS

The emergency medical vehicle's electrical system must meet KKK-A-1822-F Section 3.7.1. This agency will specify systems, components, materials, and production methods within this section. However, a failure can occur whether the vehicle is under warranty or outside the warranty parameters. This agency operates the vehicle on a twenty-four hours a day, seven day a week (24/7) basis. Therefore, the primary manufacturer will provide a local service facility during regular business hours.

The driver and patient compartment control consoles shall be constructed in a way that the switches and any gauges are easily serviced. They shall be accessible through service panels. These panels will be secured in the closed position in a positive manner yet can be easily opened for service.

5V-10-0050

The control console gauges shall be internally illuminated and controlled by the headlight switch rheostat. All lights and fixtures installed on the module exterior shall have a corrosion inhibitor applied to all mounting holes prior to installation.

5V-10-0055

The driver and patient console shall incorporate full size "Euro-Style" rocker switches. The switch assembly shall be 1.97 inches tall by 1.064 inches wide with silver plated copper contacts and a .250-inch spade type terminal. The rocker switch shall incorporate a LED indicator lamp and rated at 15 Amps continuous service. The switch and rocker shall be of a thermo set molding material. The complete switch assembly shall be designed to withstand one thousand (1,000) volts RMS dielectric test. The switches shall have a positive "throw" feel and an audible click upon activation and deactivation.

5V-10-0060

The rocker switches, as described in section 4.1.3, shall have integrated label lens area that is illuminated by two independent LED's. The LED brightness shall be controlled by the headlight rheostat. The label shall be white legends on black poly carbonate background.

5V-10-0065

The OEM throttle monitor shall be mounted in the primary manufacturer's console. It shall be mounted to be easily accessible to the driver.

5V-10-0070

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WARNING INDICATORS

The electrical system shall incorporate a warning light panel in the driver's console. It shall provide indicator lights for showing when a patient compartment door(s), side, and rear, are open. This shall be a flashing red LED light. There shall be an exterior compartment "door open" warning light. This shall be a flashing red LED light of the same size.

5V-10-0075

A battery indicator light shall be provided. It will be a green light located in the warning light panel. It shall illuminate when the battery switch is in the "ON" position. The light shall be steady burn to indicate the batteries have been selected.

5V-10-0080

WIRING INSTALLATION

The ambulance body and accessory electrical equipment shall be served by circuit(s) separate and distinct from the vehicle chassis circuits. Wiring methods must conform to SAE J1292. All wiring provided by the primary manufacturer shall be copper and conform to all the SAE J1127 and SAE J1128 requirements. All low-tension primary cable shall have GXL or better insulation. All low-tension battery cable shall have SGX insulation. Documentation from the wiring manufacturer that the wire used by the primary manufacturer is in compliance with this requirement shall be submitted with the proposal. Bids not meeting this requirement will not be accepted.

5V-10-0085

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

5V-10-0090

Wiring shall be routed in conduit or high temperature looms with a rating of 300 degrees Fahrenheit where necessary to protect it. All added wiring shall be located in accessible, enclosed, and protected locations and kept at least six inches from the exhaust system components. Electrical wiring and components shall not terminate or be routed in the oxygen storage compartment except for the oxygen-controlled solenoid, compartment light, and switch. All conduits, looms, and wiring shall 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 shall be

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properly placed in a grommet and sealed for passing wiring and conform to SAE 1292. All items used for protecting or securing the wiring shall be appropriate for the specific application and be standard automotive, aircraft marine, or electronic hardware.

5V-10-0095

Circuit connections shall be made on barrier style terminal blocks utilizing binding post screws for positive mechanical connections. minimize the potential for wiring shorts and voltage drops all wiring terminals shall be brass, tin plated, annealed, ETP copper with nylon high heat insulation. Serration's, inside the barrel, provide maximum contact and tensile strength after crimping. Connection shall be machine crimped, to UL standards, with a high-quality crimping tool that produces crimps for a given size wire and terminal that are precisely alike in appearance and performance. Crimping pressure must be controlled by a ratchet device on the hand tool or a corresponding pre-calibration in the crimping jaws of an automated machine. Crimping pressure can neither over-stress nor under stress the terminal-barrel-machined dies.

5V-10-0100

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, is not acceptable.

5V-10-0105

The various wiring installations as supplied with this vehicle shall be of the automotive "harness" design. For ease of identification and future replacement these harnesses shall be engineered and manufactured in the following sections.

1. Engine compartment harness.
2. Driver's control console harness.
3. Main module harness.
4. Chassis rear lighting harness.

This agency is extremely concerned the primary manufacturer has the ability to control, warranty and replace the harnesses. To that end, the primary manufacturer shall not subcontract the construction of these harnesses.

5V-10-0110

WIRING CRITERIA AND CIRCUIT BOARD

All wiring devices, switches, outlets, etc., except circuit breakers, shall be rated carry a minimum of one hundred and twenty-five percent (125%) of the maximum ampere load for which the circuit is protected. All wires carrying a load of more than 5 amperes shall be a minimum of 16 AWG. There shall be a master electrical component panel located in the vehicle. It is preferred that the master panel be mounted on or near the bulkhead of the patient compartment. Standard

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circuit breakers, relays, and diodes shall be mounted on a printed circuit board that is easily accessible. All components on the circuit board are to be permanently labeled as to their function.

5V-10-0115

The printed circuit board shall be designed and manufactured as follows: A screen printed board with all circuits fully numbered and labeled. The circuit board shall be a double-sided copper trace printed circuit with a double-sided laminated isolator. The board shall be non-photo image able solder mask over bare copper with hot air leveled solder over non masked copper. Fuse capacity is the beginning factor in calculating trace width to ensure proper current carrying capability. The circuits shall then be oversized as much as space permits for maximum cooling of the board. All holes shall be plated through. The terminal strips shall be mounted on the board for connection of the above-mentioned wiring harness. Automotive transient suppressers must be incorporated into circuit board at the point of cable entry to the board. All relays must include built in noise suppression. The suppression must be accomplished with a IN4001 parallel with the coil. The relay must have a 40-ampere continuous contact rating with one form C contact arrangement. Normally open contact must have a maximum initial voltage drop of 200 millivolts at 40 ampere contact load. The relays must withstand 24 VDC for five minutes conducting rated contact current in case of accidental 24 volt jump start condition. Circuit board options must be programmable via jumpers to facilitate addition of options. The color of wire and circuit number must be screened printed at the terminal block connections on the board for rapid identification and relation to schematics.

Documentation that the above requirements are met must be included with the bid document.

5V-10-0120

The printed circuit board shall incorporate red LED indicators for on board diagnostics for input, output, and switching circuits for troubleshooting at a glance.

5V-10-0125

CIRCUIT BOARD CERTIFICATION

The printed circuit board must meet the following specifications:

1. Packaging and Interconnecting Acceptability Standard number IPC 600
2. UL-796
3. Solder mask, IPC number SM-840
4. Solder in conformance with MIL SPEC QS-571
5. Laminate in conformance with IPC number 4101

Certification must be included with this bid.

5V-10-0130

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A service loop of wire or harness, per KKK-A1822-F specification, 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 amperes shall be heat sink mounted. 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 ampere circuit breaker shall be provided for future use. A solid-state electronic flasher shall be heat sink mounted to the panel for control of the flashing warning light system. 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.

5V-10-0135

MASTER MODULE DISCONNECT SWITCH OR DEVICE

This device shall be located on the driver's compartment console and shall be permanently labeled and back lighted with a LED light and the brightness controlled by the head light rheostat. The "MASTER" disconnect switch shall be considerably different in size and feel from the other console switches.

5V-10-0140

PATIENT COMPARTMENT CONTROLS

All switches and controls for the patient compartment shall be located on a service panel in the Action Area angled slightly toward the rear of the vehicle. The switches and controls shall be identical as referenced in section 4.1.3 of this document. These switches shall not function until the "MASTER" switch in the driver's console is in the "ON" position. The patient compartment switches shall be permanently marked and back lighted by a LED light.

5V-10-0145

ELECTROMAGNETIC RADIATION AND SUPPRESSION

Must meet KKK-A-1822-F specification. Documentation from an independent testing laboratory must be included with the bid.

One (1)
5V-10-0250

Y__N__

ELECTRICAL MOUNTING PANELS

The emergency medical vehicle's electrical system will use brushed stainless-steel panels for the Outlet panels, switch panels and other faceplates.

One (1)
5V-10-02SR

Y__N__

Stainless Steel HVAC Cover

One (1)
65-10-3001

Y__N__

Coax Cable, RG58/U, (1), Additional, Std Model only

One (1)

Y__N__

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65-30-1000

ANTENNA CABLE INSTALLATION

Shall meet the requirements of paragraph 3.14.3 of Federal Specification KKK-A-1822-F.

One (1)

Y__N__

6A-22-200E

INTERNAL 12 VOLT DC POWER

The patient compartment shall be furnished with a 12-volt DC, 20 ampere capacity, separately protected circuit, with two outlets. The outlets shall be Cigar Lighters and shall be located in the Action Area.

One (1)

Y__N__

6A-22-5200

PORT 5 VOLT DC POWER USB STYLE

The Cab console switch panel shall be furnished with a 5-volt DC, 3 ampere capacity, separately protected circuit, with a Dual USB outlet.

One (1)

Y__N__

6A-22-5200
10

PORT 5 VOLT DC POWER USB STYLE

The Cab console switch panel shall be furnished with a 5-volt DC, 3 ampere capacity, separately protected circuit, with a Dual USB outlet.

One (1)

Y__N__

6A-23-0910

POWER SOURCE

A 12VDC power source shall power customer supplied portable battery charging devices. It shall be 20 amp and ignition/shoreline switch hot. The power source shall be split into two locations tagged and identified (1) behind driver's seat and (1) behind action area in module.

One (1)

Y__N__

6A-23-1201

POWER SOURCE

A 12VDC, 15-amp power source power shall be installed in a location as determined by this Agency.

One (1)

Y__N__

6A-23-3001

POWER SOURCE

A 12VDC, 30-amp power source power shall be installed in a location as determined by this Agency.

One (1)

Y__N__

6F-90-4101

SHORELINE INLET

A 20-amp Super Auto Eject shoreline inlet with a GFI, and interrupter shall be installed and located above compartment E.

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Does your bid comply with this requirement?

Yes () No ()

One (1)
6K-10-0000

Y__N__

125 VOLT AC UTILITY POWER

125-volt AC utility power must meet KKK - A1822 - E. Utility power shall be as described in KKK - A1822 - E paragraph 3.7.8.1. Electrical 125-volt AC receptacles shall be as described in KKK - A1822 - E paragraph 3.7.8.2.

Does your bid comply with this requirement?

Yes () No ()

One (1)
6K-40-1000

Y__N__

125 VAC OUTLETS

Two 125VAC duplex outlets shall be installed in the patient compartment. One outlet shall be located in the action area, and one outlet shall be located in the right front cabinet.

Does your bid comply with this requirement?

Yes () No ()

One (1)
6U-10-5000

Y__N__

BATTERY CHARGER

A Progressive Dynamics, PD9130 Auto battery charger (or equivalent) shall be installed. It shall be a 12-amp charger/conditioner.

One (1)
D0-10-1200

Y__N__

VOLTMETER

The vehicle shall include an analog voltmeter. It shall be located in the front center console next to the ammeter.

Does your bid comply with this requirement?

Yes () No ()

One (1)
D0-10-6500

Y__N__

LOW VOLTAGE ALARM

The electrical system shall be monitored by a system that provides both an audible and visual warning in case of low voltage in the ambulance. The alarm shall sound if the system voltage at the batteries drops below 11.8 Volts for a 12 Volt nominal system for more than 120 seconds.

One (1)
DF-10-1243

Y__N__

Siren Speakers, Cast SAD/PSAD3827-20FSD-1, F-Series 2022, Std

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One (1)
DK-10-1400

Y__N__

SIREN, PUBLIC ADDRESS SYSTEM

The ambulance shall be equipped with hands free electronic siren with silent testing. The siren shall be a Whelen WS-295-SLSA1 (or equivalent) and should include a rumbler system.

Does your bid comply with this requirement?

Yes () No ()

One (1)
DP-11-1000

Y__N__

SIREN/HORN SWITCHING

The siren shall be switched through the horn ring.

Does your bid comply with this requirement?

Yes () No ()

One (1)
F0-11-3501

Y__N__

BACKUP ALARM

A backup alarm with a cutoff switch shall activate when the vehicle is shifted into reverse. The alarm shall automatically be reset and engage when the vehicle is placed in reverse again. The device must meet OSHA and SAE J994 requirements, and shall be rated (SAE) for Type C or B.

Does your bid comply with this requirement?

Yes () No ()

One (1)
F3-10-0000

Y__N__

VEHICLE EXTERIOR LIGHTING REQUIREMENTS

The basic exterior ambulance lighting shall comply FMVSS standard number 108 and the requirement herein and include:

1. Amber front, rear directional signals, red brake and hazard warning lights.
2. Front and rear side marker lights.
3. Back up light(s).
4. Loading lights.
5. Clearance lights
6. Ambulance emergency lights.
7. Flood lights.
8. Spotlight(s)

Note: This agency is concerned for the safety of the patients, crew, and the public sharing the roadways. Therefore, this agency requires the primary manufacturer incorporate recessed DOT marker lights at the highest point of the vehicle. The marker lights shall be visible 360 degrees. In addition, each corner

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marker light shall be visible 180 degrees, also at each corner the marker light lens cover shall be tilted upward on a 45-degree angle be visible above the horizontal plane for 360 degrees. These measures will ensure the vehicle will be visible in low light conditions with the headlights in the "on" position. **Bolt on upper clearance lights or clearance lights within the support side extrusions will not be acceptable.** The rear side marker light shall be a minimum of two inches in diameter and shall function as a turn signal indicator as described in KKK - A1822 - E.

Does your bid comply with this requirement?

Yes () No ()

F3-10-1000

EMERGENCY LIGHTING SYSTEM

The emergency lighting system must provide the vehicle with 360 degrees of visual warning ability. The system must display highly perceptible and attention getting signals that function in a modal system and convey the message in the primary mode to clear the right of way. In the secondary mode hazard vehicle stopped on right of way.

Does your bid comply with this requirement?

Yes () No ()

F3-10-2000

The basic warning light system shall contain twelve red, one clear and one amber light These lights shall function in a dual mode system as shown in KKK-A-1822-F and meet the physical and photo metric requirements of paragraph 3.8.2.1 of that same document. The upper body warning lights shall be identical and mounted at the extreme upper corner areas of the ambulance body below the horizontal roof line, with the single clear light mounted between the two-front facing red upper corner lights and the amber light centered above the rear doors. The two red grill lights shall be mounted per KKK-A-1822-F specifications without compromising the chassis manufacturer's air intake into the engine compartment.

Does your bid comply with this requirement?

Yes () No ()

F3-10-3000

PHOTO METRIC AND PHYSICAL REQUIREMENTS

As specified by KKK-A-1822-F. All emergency light switches shall be labeled as specified in paragraph 3.7.11 of KKK-A-1822-F, and the primary/secondary mode switch(s) shall have an indicator light to show the driver which mode is activated. All warning light control switches, as described in section 4.3.1 of this document, shall be located in the driver control console and arranged to provide the warning

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signal modes and combinations as specified in Table 1 of KKK-A-1822-F, page 19. An independent testing laboratory will certify that the system meets these requirements. Test documents to be included with this proposal.

Does your bid comply with this requirement?

Yes () No ()

Eight (8)
FU-40-0105

Y__N__

A Whelen 90RR5FCR (or equivalent) Red Super LED light with a clear lense shall be located XXXXX.

Does your bid comply with this requirement?

Yes () No ()

Six (6)
FU-40-0107

Y__N__

A Whelen 90RR5FCR (or equivalent) Red Super LED light with a clear lense shall be located XXXXX.

Does your bid comply with this requirement?

Yes () No ()

One (1)
FU-40-0110

Y__N__

A Whelen 90AA5FCR (or equivalent) Amber Super LED light shall be located XXXXX.

Does your bid comply with this requirement?

Yes () No ()

One (1)
FU-40-0114

Y__N__

A Whelen 90CC5FCR (or equivalent) Clear Super LED light shall be located XXXXX.

Does your bid comply with this requirement?

Yes () No ()

Two (2)
H4-06-5702

Y__N__

A Whelen 50R02ZRR (or equivalent) Red Super LED light shall be installed XXXXX. The lense shall be Red and the LED lights shall be Red.

Does your bid comply with this requirement?

Yes () No ()

Two (2)
H4-10-0044

Y__N__

Whelen flanges (or equivalent) shall be installed on XXXXX lights.

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Does your bid comply with this requirement?

Yes () No ()

One (1)
H5-58-0625

Y__N__

A Whelen 70R02FCR (or equivalent) Red Super LED light shall be installed XXXXX. The lense shall be clear and the LED lights shall be red.

Does your bid comply with this requirement?

Yes () No ()

Two (2)
H5-59-500E

Y__N__

A Whelen, LINZ6R RED, (or equivalent) Super LED Red light shall be installed XXXXX.

Does your bid comply with this requirement?

Yes () No ()

One (1)
HF-11-6049

Y__N__

CLEARANCE LIGHTS

The primary manufacturer shall incorporate DOT marker lights at the highest point of the vehicle. The marker lights shall be visible 360 degrees. In addition, each corner marker light shall be recessed and visible 180 degrees. Also, at each corner, the 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 ensure the vehicle will be visible in low light conditions with the headlights in the "on" position. Bolt on upper clearance lights or clearance lights within the support corner extrusions will not be acceptable. Amber lenses shall be installed on the front corners and Red lenses shall be installed on the rear corners. The light shall be LED and flash at high intensity when activated through a separate switch located on the cab console.

Does your bid comply with this requirement?

Yes () No ()

Three (3)
HF-12-9100

Y__N__

MARKER LIGHTS

Three amber clearance lights shall be installed on the front roof rail.

Does your bid comply with this requirement?

Yes () No ()

Three (3)
HF-12-9601

Y__N__

MARKER LIGHTS

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Three red clearance lights shall be installed on the rear roof rail.

Does your bid comply with this requirement?

Yes () No ()

Four (4)
HK-20-110M

Y__N__

EXTERIOR FLOOD LIGHTS

Four Whelen 9SC0ENZR (or equivalent) Clear LED lights shall be installed. Flood and loading lights shall not be less than seventy-five inches above the ground and shall not be obstructed by open doors. Two floodlights shall be located on each sides of the vehicle and be firmly fastened to the body surfaces below the roof line. The side flood lights shall be controlled from the cab console and be independently switched.

Does your bid comply with this requirement?

Yes () No ()

Two (2)
HK-20-130M

Y__N__

EXTERIOR FLOOD LIGHTS

Four Whelen 9SC0ENZR (or equivalent) Clear LED lights shall be installed. Flood and loading lights shall not be less than seventy-five inches above the ground and shall not be obstructed by open doors. Two floodlights shall be located on each sides of the vehicle and be firmly fastened to the body surfaces below the roof line. The side flood lights shall be controlled from the cab console and be independently switched.

Does your bid comply with this requirement?

Yes () No ()

One (1)
HU-24-6400

Y__N__

FLASHER

A Vanner 9860GCPE (or equivalent) flasher shall be installed and provide a flash pattern to meet KKK-1822 E specification.

One (1)
JA-13-8012

Y__N__

TAILLIGHT PACKAGE

There shall be a Whelen (or equivalent) taillight package installed on the rear of the vehicle. The stop/taillights shall be LED with a minimum of 32 square inches of lighted surface area. The turn signals shall be a 5" LED arrow shaped design. The backup lights shall be LED. All three lights per side shall be in a common housing. A waterproof connection to the OEM taillight harness is required.

One (1)
JK-10-6510

Y__N__

MODULE HEADLINER

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The module headliner shall be manufactured out of expanded PVC material. The liner shall be white and installed to allow flush mounting of the interior lighting.

Does your bid comply with this requirement?

Yes () No ()

One (1)
JP-10-0611

Y__N__

VEHICLE INTERIOR LIGHTING

The basic interior compartment shall be provided with seven overhead dual intensity LED lights. The lights shall be Whelen 80W00EZR (or equivalent). There shall be four lights located over the primary patient stretcher and three over the squad bench. These lights shall be mounted into the patient compartment head liner and shall not protrude into the patient compartment. The overhead shall have two levels of intensity, a high and low settings. The attendant shall be able to control the level of light via switches in the action area control panel. The dual lighting shall work together or may be separately selected from side to side. The four lights over the primary patient shall illuminate on the low setting when the side modular or rear modular doors are open. Certification shall be provided by an independent testing laboratory with this proposal.

Does your bid comply with this requirement?

Yes () No ()

One (1)
JP-10-7015

Y__N__

STEP WELL LIGHT

A 2" LED step well light shall be provided in the step well area of the modular curb side door and shall be activated upon opening the curb side or rear modular doors.

Does your bid comply with this requirement?

Yes () No ()

One (1)
JP-10-8030

Y__N__

ACTION AREA LIGHT

A twelve-volt direct current LED light with integral switch shall be provided in the attendant action area. The light shall be an Intertek ZY-PIR38 (or equivalent).

One (1)
JP-11-4715

Y__N__

Lighting, LED, Recessed into Trough cover- White/Red.

One (1)
JR-50-0000

Y__N__

LIGHTS & MISCELLANEOUS:

One (1)
JR-50-1050

Y__N__

11.2 LIGHTING - SPOTLIGHT, HANDHELD

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The cab shall be equipped with a spotlight with a coiled cord that is hardwired "On" with Ignition. The handle shall include a momentary switch. The bulb shall be a 12V - 200,000 candle power sealed beam non-glare bulb.

Seven (7)
JR-50-2850

Y__N__

ADDITIONAL COMPARTMENT LIGHTS

An additional 4" LED Optroncis (or equivalent) compartment light shall be installed XXXXX.

One (1)
JR-60-2003

Y__N__

TIMER

A 15-minute Timer shall be installed XXXXX. The timer shall be wired constant hot and shall power XXXXX.

Does your bid comply with this requirement?

Yes () No ()

One (1)
JR-70-0005

Y__N__

ELECTRICAL TROUBLESHOOTING LIGHT

A small light with a switch shall be installed in the circuit board area for troubleshooting. The light shall be wired battery hot.

Does your bid comply with this requirement?

Yes () No ()

One (1)
LP-10-0500

Y__N__

SUCTION PUMP

A suction pump shall be installed that shall comply with Federal Specifications KKK-A-1822-F.

Does your bid comply with this requirement?

Yes () No ()

One (1)
LU-10-1000

Y__N__

ACOUSTIC AND CLIMATE INSULATION

The primary manufacturer shall supply an insulating material that is nonflammable with a Class A, Class 1 fire rating. It shall 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 shall be covered with reflective insulating material with a value of R-14. The side, front, rear, walls as well as the ceiling shall be insulated with three-inch-thick temperature rated un-faced fiberglass with a value of R-11. Fiberglass has been proven to provide excellent sound and thermal barrier over other

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materials. Fiberglass insulation is safe and widely used in the automotive and construction industry.

Does your bid comply with this requirement?

Yes () No ()

One (1)
N0-10-9101

Y__N__

OVERHEAD GRABRAIL

An overhead grabrail shall be installed in the patient compartment head liner. The grabrail shall be yellow powder coated stainless steel and handicapped style with rounded ends. The grabrail shall be a minimum of 117 inches long and shall be mounted in a recess in the liner.

Does your bid comply with this requirement?

Yes () No ()

One (1)
N0-10-9703

Y__N__

ENTRY DOOR GRAB HANDLES

On each entry door there shall be an L shaped grab handle. The vertical portion of the L shall be close to the hinge of the door and run the full length of the upper window in the door. The horizontal portion of the L shall be located just under the upper window. The grab handles shall be 1 inch diameter brushed stainless steel and handicapped style.

Does your bid comply with this requirement?

Yes () No ()

One (1)
NA-10-3550

Y__N__

Rack, Multiversal, #QR-MV, W/ Straps

One (1)
NA-10-6502

Y__N__

Track, Unistrut for Oxygen Rack -Standard per ECN

One (1)
NF-50-1001

Y__N__

OXYGEN, MAIN SUPPLY, AND INSTALLATION

The ambulance shall have a hospital type piped oxygen system capable of storing and supplying three thousand liters of medical oxygen. The cylinder controls shall be accessible from inside the patient compartment. The pressure gauge shall be visible from either the attendant's seat or from the squad bench. The oxygen shall be piped to two self-sealing Ohio adaptable oxygen outlets located in the action area and one located on the curbside wall at the head of the squad bench. The oxygen system will incorporate electrically conducted oxygen hose with a working pressure of one hundred and fifty pounds per square inch. All oxygen hose and outlets will use machine crimped brass ferrules and high-pressure connectors. The entire oxygen delivery system will be pressured tested with a minimum of one hundred and fifty pounds per square inch of pressure of

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nitrogen gas for a period of four hours. The testing documentation will be delivered with the vehicle.

A vacuum port shall also be located in the action area to supply the vacuum to the suction container.

Does your bid comply with this requirement?

Yes () No ()

One (1)
P0-59-7500

Y__N__

One (1) REGULATOR, LGE CYL,PRESET 50PSI

One (1)
PA-10-7003

Y__N__

SUCTION ASPIRATOR

The ambulance shall be equipped with an on-board vacuum aspirator. The unit shall be mounted on the action area wall above the action area tray to collect any bio fluids that may be spilled. The unit shall be an SSCOR 22000 with a 23002 stainless steel container holder with canister clip. The container shall be disposable, and the regulator panel shall be located in the action area panel. The vacuum pump shall be installed via a twelve-volt direct current system. The on/off switch shall be located in the attendant's console.

Does your bid comply with this requirement?

Yes () No ()

One (1)
PF-26-3450

Y__N__

COT MOUNT

Patient restraints shall be as specified in paragraph 3.11.8 of Federal Specification KKK - A - 1822E. Cot fasteners and safety bets shall be mounted in tapping plates. Install additional floor structure for future installation of a Stryker #6390 Power-LOAD system or a #6392 Performance Load system. Includes pre-wire which will terminate under the attendant's seat.

One (1)
PF-35-9001

Y__N__

Cutout for Stryker powerload system mounting plate, must accommodate for the installation of the mounting plate.

One (1)
PF-36-0001

Y__N__

Center Mount

Two (2)
PP-20-8500

Y__N__

IV HOLDERS FOR INTRAVENOUS FLUID CONTAINERS

Shall be as specified in paragraph 3.11.9 of Federal Specification KKK-A-1822-F. There shall be two (2) Cast fold down style recessed IV holders. Placed as per customer specification.

One (1)
R5-10-8000

Y__N__

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OXYGEN WRENCH

An oxygen wrench shall be located in the oxygen compartment. The wrench shall be tethered so that it will not become lost.

Does your bid comply with this requirement?

Yes () No ()

Three (3)
R5-11-5710
20

Y__N__

Seat Belts

The three (3) 4-point black restraint shall be fully retractable and utilizes four retractors for increased mobility. The restraint shall feature **controlled deceleration technology** and a **single buckle** for single point-of-release. The restraint shall meet the requirements of FMVSS 209 and 302 standards. The restraint shall have a built-in indicator to signify that the webbing has undergone a severe load and needs to be replaced.

One (1)
R5-11-5810

Y__N__

Patient Restraint Belts

There shall be three patient restraint belts that shall be retractable for a secondary patient on the squad bench. The restraint shall meet the requirements of FMVSS 209 and 302 standards.

One (1)
RQ-09-0000

Y__N__

MODULE INTERIOR

One (1)
RU-05-0000

Y__N__

INTERIOR SURFACES

All vertical edges of cabinets shall be of an aluminum extrusion with a 3/4 inch radius designed to free the interior of the patient's compartment of all sharp edges or projections. The face and inside of the cabinets 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.

Does your bid comply with this requirement?

Yes ()

No ()

RU-05-0000-1 CABINET CONSTRUCTION

The interior cabinets, squad bench assembly, shelves and doors shall be constructed of marine grade plywood; due to the product's ability to be

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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 3/4 inches including mica, adhesive, and glue. Any construction materials that provide anything less than 3/4-inch panels in cabinet construction is not acceptable to this agency. NO EXCEPTION.

The squad bench lid shall be attached to the squad bench assembly via a stainless-steel piano hinge the entire length of the bench. The squad bench shall be equipped with a locking device to automatically secure the lid upon closing. The patient compartment wall panel (behind the squad bench) and the cab compartment wall panel shall be constructed of 1/4-inch plywood and covered with color coordinating high pressure laminate.

The cabinets shall be constructed using 8 mm dowels placed no farther than 32 mm apart. The dowels shall be a hardwood and pre-glued.

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 3 mm edge banding. All doors and cabinet openings shall be covered with a 3 mm edge banding with radius edges.

Does your bid comply with this requirement?

Yes ()

No ()

RU-05-0000-2 INTERIOR STOWAGE ACCOMMODATIONS

The interior of the patient compartment shall provide but not be limited to a minimum volume of thirty cubic feet of enclosed cabinets. Interior cabinet, shelf and compartment space shall be conveniently located for medical supplies, devices, or other equipment. All interior cabinets shall be fully lined inside with high-pressure plastic laminate. The equipment and supplies necessary for airway management shall be within easy reach of the medic at the head of the stretcher. Interior cabinet dimensions are as described.

Does your bid comply with this requirement?

Yes ()

No ()

One (1)
RU-13-8000

Y___N___

INTERIOR SURFACES

The cabinets shall match purchasers request for color.

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Does your bid comply with this requirement?

Yes () No ()

One (1)
RZ-99-0050

Y__N__

FLOOR

A top floor of seven ply three quarter inch marine grade plywood, sanded both sides with no voids, shall be installed over the moisture barrier. The plywood shall be marine resin coated prior to installation to prevent warping due to ambient moisture absorption. The plywood floor shall be one piece from the bulkhead to the rear doors between the patient door steeple and squad bench and extend under the street side cabinets. The plywood floor shall be securely anchored to the floor sub structure with one quarter inch UNF machine by two-and one-half inch screws.

Does your bid comply with this requirement?

Yes () No ()

One (1)
T0-11-8100

Y__N__

FLOOR COVERINGS

The patient compartment floor covering shall be a heavy-duty material that is impervious to fluids. The flooring shall be glued to the plywood floor using an adhesive compound. The flooring shall be Lonplate (or equivalent) and the color Black #163. There shall be no adhesive voids between the flooring and the plywood. The floor shall be designed to roll up the side of the street side and bulkhead cabinets and squad bench.

One (1)
T5-10-0120

Y__N__

ATTENDANT SEATING

Seating for the attendant shall consist of a contoured high back padded bucket seat with bolstered seat cushion. The seat covering shall be an easy clean vinyl material and be impervious to blood borne pathogens and other contaminants. Therefore, cloth seats or seats with welting seams or visible stitching will not be accepted. The vinyl shall be black. Seating must meet OSHA regulation 1910.1030. The seat belt must be certified to KKK - A1822 - E specification and to FMVSS and shall be an integrated black Per4max harness. An integrated child safety seat shall be incorporated in the seat. Installation shall comply with FMVSS.

One (1)
T5-11-4740

Y__N__

ATTENDANT'S SEAT BASE

An EVS brand box style steel seat base shall be provided for the rear facing attendant's seat. The assembly shall be bolted to the floor through mounting plates welded into the floor structural tubing.

One (1)
T5-25-3700

Y__N__

UPHOLSTERY

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The finish of the entire patient's compartment, including storage cabinets and equipment, shall be impervious to soap and water, disinfectants, bio fluids, mildew and shall be fire resistant per FMVSS 302. Upholstered cushions shall be a minimum of thirty-two-ounce nylon reinforced commercial vinyl material. Squad bench cushions and attendant seat and backrest cushions shall be fabricated in such a manner to eliminate exposed welting. Cushions with welting or beaded seams shall not be accepted due to the risk of bio fluid penetration. Describe below your method of cushion construction. The color of the upholstery shall be gunmetal gray.

Does your bid comply with this requirement?

Yes () No ()

Four (4)
T5-40-2102

Y__N__

CUSHIONS

On the squad bench wall and the CPR side seat wall (if called for) will be individual backrest cushions in black to match the upholstery. These cushions will be seamless with the ambulance manufacturers logo.

One (1)
TK-10-5000

Y__N__

INTERIOR OXYGEN VIEWING DOOR

A Lexan door shall be installed on the oxygen viewing opening.

Does your bid comply with this requirement?

Yes () No ()

One (1)
TU-20-1400

Y__N__

RIGHT FRONT CABINET

The right front cabinet shall house the Heating and Air Conditioning unit which shall be located in the upper portion of the cabinet.

Does your bid comply with this requirement?

Yes () No ()

Two (2)
TU-20-7D00

Y__N__

RIGHT FRONT CABINET DOORS

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The right front cabinet shall have dual gray Polycarbonate doors. The doors shall have an integral handle incorporated into the frame of the door for One Hand Operation.

Two (2) Y__N__
V0-14-2075

Latch, Southco M1 (or equivalent), 2IN S/S, (3/4" door) Non-Locking, (1), CN 10 - Rated at 10lbs

Three (3) Y__N__
V0-14-2078

Latch, Southco M1 (or equivalent), 2IN S/S, (3/8" Door) Non-Locking, (1), CN 10 -Rated at 10lbs

One (1) Y__N__
V5-20-28SR

Red Etched Sharps and Trash Lids - New std - No stickers

One (1) Y__N__
V5-20-3802

SQUAD BENCH CABINET

The squad bench cabinet shall be located on the curb side of the patient compartment over the rear wheel well. The squad bench shall be a minimum of 72 inches long and be constructed of three-quarter inch birch. The lid shall be attached to the squad bench assembly via a stainless-steel piano hinge the entire length of the bench. The hinge shall attach with fasteners in a vertical position through the face of the lid and not through the edge of the cabinet and lid. The squad bench shall be equipped with a locking device to automatically secure the lid upon closing. The squad bench shall be furnished with two sets of 6 Point safety belts for seated occupants and three Two-point belts for the retention of a cot when positioned on the squad bench. The anchorages for the side facing seat belt assembly shall withstand a minimum of 2,500 pounds force when tested in accordance with FMVSS 210-S5.1. A full-length cushion shall be installed on the squad bench lid and on the wall as a back rest. The interior of the squad bench shall provide storage the full length of the bench. At the head of the squad bench shall be a built-in trash disposal area. A trash can shall be accessible under a red flip up lid, and a sharps container's circular opening shall be accessible through a round cutout in the squad bench lid. Both the trash can and the sharps container may be removed from the squad bench by lifting up a sectioned portion of the squad bench lid.

Does your bid comply with this requirement?

Yes () No ()

One (1) Y__N__
V5-64-1501

SQUAD BENCH LID

The squad bench shall have a full-length lid that shall be manufactured from three quarter inch birch. The lid shall be covered in color coordinating high pressure laminate.

Does your bid comply with this requirement?

Yes () No ()

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One (1)
V5-80-1005

Y__N__

SQUAD BENCH LATCH

The squad bench lid shall be secured with a paddle handle that latches automatically when the squad bench lid is closed. The latch shall hold the lid secure during transit and shall not open unless the handle is lifted.

Does your bid comply with requirement?

Yes () No ()

One (1)
V5-82-2500

Y__N__

SQUAD BENCH HOLD OPEN

When the squad bench lid is lifted, it shall be held in place by a 60 pound pneumatic hold open.

Does your bid comply with requirement?

Yes () No ()

One (1)
VA-40-4530

Y__N__

CURBSIDE SPLINT CABINET

A cabinet shall be located above the squad bench near the headliner. The cabinet shall be 7 inches deep, approx. 8 inches high and run the length from the curbside door to the rear wall cabinet. The cabinet shall be separated into two equal cabinets with gray Lexan Flap glass doors.

Does your bid comply with this requirement?

Yes () No ()

One (1)
VH-H2-0300

Y__N__

STREETSIDE REAR MIDDLE CABINET

Cabinet "H" shall be located on the street side of the patient compartment. It shall be the rear most middle cabinet and shall be 20.75 inches high and 38.25 inches wide. The opening shall provide access to compartment "D".

Does your bid comply with this requirement?

Yes () No ()

One (1)
VH-O1-0100

Y__N__

STREETSIDE MIDDLE LOWER CABINET

Cabinet "O" shall be located on the street side of the patient compartment. It shall be the middle lower cabinet just below cabinet "M" and shall be 15.0 inches high, 22.0 inches wide, and 19.5 inches deep. This cabinet should contain a

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Medi-Kool, or equivalent, IV and blanket warmer and cooler with a control thermostat.

Does your bid comply with this requirement?

Yes () No ()

One (1)
VH-Q0-0101

Y__N__

CPR SIDE SEAT

A CPR side seat shall be located just above the rear street side wheel well. Seamless upholstered cushions shall be located on the bottom and rear wall of the seat area. Cushions shall also be located above the head area for safety.

Does your bid comply with this requirement?

Yes () No ()

One (1)
VH-Q0-0301

Y__N__

CPR SEAT STORAGE

A small storage area shall be located under the CPR seat and just above the wheel well. The storage shall be accessed by lifting a lid which holds the bottom seat cushion.

Does your bid comply with this requirement?

Yes () No ()

One (1)
VH-R1-0106

Y__N__

CPR SEAT BARRIER BAR

A 7 1/2" high x 6 7/8" wide "U" shaped 1.5" stainless steel barrier bar shall be installed even with the upper head strike area forward of the CPR side seat. This bar shall be fitted with a padded upholstery cover to match the unit's interior. The padding for the bar will be 1" block foam on each side of a PVC cover shaped to fit over the bar.

Does your bid comply with this requirement?

Yes () No ()

One (1)
VI-J2-0300

Y__N__

STREETSIDE REAR UPPER CABINET

Cabinet "J" shall be located on the street side of the patient compartment. It shall be the rear upper cabinet and shall be 18.5 inches high, 24.25 inches wide, and 19.5 inches deep.

Does your bid comply with this requirement?

Yes () No ()

One (1)
VI-K1-0200

Y__N__

STREETSIDE REAR UPPER CABINET

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Cabinet "K" shall be located on the street side of the patient compartment. It shall be the rear upper cabinet just above cabinet "M" and shall be 18.5 inches high, 26.75 inches wide, and 19.5 inches deep.

Does your bid comply with this requirement?

Yes () No ()

One (1)
VI-L1-0356

Y__N__

STREETSIDE FORWARD UPPER CABINET

Cabinet "L" shall be located on the street side of the patient compartment. It shall be the forward upper cabinet just above the action area. The cabinet shall be 18 inches high, 39 1/2 inches wide and 17 3/4 inches deep.

Does your bid comply with this requirement?

Yes () No ()

One (1)
VK-15-2000

Y__N__

CABINET DOORS AND FRAMES

The cabinets shall have doors that follow the standards of SAE J3058 Ambulance Interior Storage Compartment Integrity.

The sliding cabinet doors shall be framed with a T6- 6063 aluminum frame with specially designed negative angled grooves for the spring latched handles to grip onto for latching. The corners of the frames shall be double keyed for stability and strength. The frame shall be gasketed to prevent intrusion of liquids into the cabinets. The sliding doors shall be made of 1/4" polycarbonate in either a clear, grey or bronze finish as specified by the end user. The tail end of the doors shall have a T6-6063 aluminum stiffener that interlocks with the mating door to give additional strength against impact. The leading handle shall be spring loaded to give a self-latching function with the door frame groove to prevent the doors from inadvertently coming open. If the end user chooses to have the restocking feature, the frame will be hinged in a minimum of two locations and a separate spring steel handle assembly shall be attached to the bottom of the cabinet to lock the frame in place when shut. This handle for unlatching and opening the restocking feature shall be accomplished without opening the sliding doors, from the outside of the cabinet.

One (1)
VK-15-4020

Y__N__

CABINET "H" DOOR

The door to cabinet "H" shall be a gray polycarbonate slider. The door handles shall be self-latching when closed. This door meets SAE J3058.

One (1)
VK-16-5020

Y__N__

CABINET "O" DOOR

The door to cabinet "O" shall be a gray polycarbonate slider. The door handles shall be self-latching when closed. This door meets SAE J3058.

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One (1)
VP-10-5463

Y__N__

TELEMETRY TRAY

The top of the telemetry cabinet shall provide a clean work area. The countertop shall be one piece with a one-inch lip around the tray. The tray shall be manufactured from molded polyester resin to provide a seamless countertop. The tray shall be topped with a durable topcoat of black gel coat. NO EXCEPTION.

One (1)
VP-10-5924

Y__N__

ACTION AREA TRAY

The top of the action area cabinet shall provide a clean work area. The countertop shall be one piece with a one-inch lip around the tray. The tray shall be manufactured from molded polyester resin to provide a seamless countertop. The tray shall be topped with a durable topcoat of black gel coat. NO EXCEPTION. This tray is mandatory to facilitate cleaning and contain any fluids or bio.

Does your bid comply with this requirement?

Yes () No ()

One (1)
VP-15-7020

Y__N__

ACTION AREA CABINET

The action area shall provide for easy access to switches located in the action from the attendant seat, squad bench and CPR seat, if applicable. The switches shall be located in an angled cabinet on the back wall of the action area. The suction container shall be recessed into the aisle facing face of the action area cabinet below the tray surface.

One (1)
VU-15-2020

Y__N__

CABINET "J" DOOR

The door to cabinet "J" shall be a gray polycarbonate slider. The door handles shall be self-latching when closed. This door meets SAE J3058.

One (1)
VU-15-4020

Y__N__

CABINET "K" DOOR

The door to cabinet "K" shall be a gray polycarbonate slider. The door handles shall be self-latching when closed. This door meets SAE J3058.

One (1)
VU-15-9000

Y__N__

CABINET "L1" DOOR

The door to cabinet "L1" shall be a solid wood door hinged on the right.

Does your bid comply with this requirement?

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Yes () No ()

One (1)
VU-16-3020

Y__N__

CABINET "L2" DOOR

The door to cabinet "L2" shall be a gray polycarbonate slider. The door handles shall be self-latching when closed. This door meets SAE J3058.

One (1)
YY-00-0000

Y__N__

STANDARD MANDATORY MISCELLANEOUS EQUIPMENT

Unless otherwise precluded elsewhere in this specification the vehicle shall be equipped with the following:

*One five-pound fire extinguisher that is ABC dry chemical multipurpose with a quick release bracket.

*No smoking oxygen equipment signs conspicuously place in the cab and patient compartment.

*A back up alarm and camera, audible warning device activated when the vehicle is shifted into or moving in reverse.

In addition, the following items shall be shipped loose in the vehicle:

One (1)
YY-00-0001

Y__N__

SPARE TIRE MOUNTING

The spare tire mounting brackets shall be shipped loose in the vehicle.

Does your bid comply with this requirement?

Yes () No ()

One (1)
YY-13-3000

Y__N__

SPARE TIRE

The OEM spare tire shall be shipped with the vehicle.

Does your bid comply with this requirement?

Yes () No ()

One (1)
ZZ-ZZ-0150

Y__N__

Indemnification Statement

One (1)
ZZ-ZZ-0200

Y__N__

QUALITY ASSURANCE PROVISIONS

Defective components shall not be furnished. Parts, equipment, and assemblies, which have been repaired or modified to overcome deficiencies shall not be furnished without the written approval of the purchaser. Construction methods utilized shall be in accordance with industry standards. Component parts and units shall be manufactured to definite standard dimensions with proper fits,

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clearances, and uniformity. The general appearance of the vehicle shall not show any evidence of poor workmanship.

At the time of delivery, the manufacturer's representative shall explain the use and operation of the new vehicle(s) and provide an owner's manual for the complete vehicle. The manual shall contain useful information on routine maintenance and trouble shooting. All warranty registration materials shall be completed and explained at the time of delivery. The manufacturer shall arrange for over the road delivery under the finished vehicle(s) own power. The vehicle(s) shall be delivered clean and free of road debris with at least fifty percent fuel on board.

The bidder shall be responsible for the performance and test requirements required herein. This agency reserves the right to perform any of the inspections and tests set forth in this specification where such inspections are deemed necessary to assure conformation of specification. The primary manufacturer shall conform to this agency's representatives with instruments and all such assistance as may be required.

Does your bid comply with this requirement?

Yes () No ()

The primary manufacturer shall be ISO 9001:2008 certified.

Does your bid comply?

Yes () No ()

TESTS

The primary manufacturer is obligated to prove that the vehicle, ambulance components and equipment provided meet the requirements of this specification and are compliant to Federal Ambulance Specification KKK-A-1822-F and any amendments in effect at the time of this bid. Copies shall be provided with this of the test documents and a letter from an independent testing laboratory that has performed the tests certifying that the following tests have been conducted and passed. Test documents or any source other than described above shall not be accepted. Failure to comply with the requirement shall be considered as non-responsive and will not be accepted. The certified tests are as follows and conform to the requirements of this specification and Federal Ambulance Specification KKK-A-1822-F.

- A. Vehicle Physical Dimensions (3.4.11 through 3.4.11.6)
- B. Patient Compartment Interior Dimensions (3.10.4)
- C. Stepwell, Bumpers and Facilitation (3.11 through 3.10.11, 3.10.3 through 3.10.16 and 3.9.9)
- D. Storage Compartment and Facilitation (3.11 through 3.11.2.1,3.11.4 and 3.11.6)

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- E. Ambulance Body and Patient Area (3.10.1 through 3.10.3, 3.10.6 through 3.10.8, 3.10.20 through 3.10.11, 3.10.3 through 3.10.16 and 3.9.9)
- F. Vehicle Weight Distribution (4.4.3 and 3.5 through 3.5.6 and 3.19)
- G. Water Spray Test (4.4.5)
- H. 115 VAC Utility Power (3.7.8 through 3.7.8.3)
- I. Electrical System Components (3.7.8 through 3.7.8.3, 3.7 through 3.7.5, 3.7.7 through 3.7.7.4, 3.7.9 through 3.7.11, 3.8.1, 3.8.4 and 3.8.50)
- J. Patient compartment Illumination (3.8.5.1)
- K. Electrical Generating System (3.7.6 through 3.7.6.3 and AMD 005)
- L. Warning Lights and Siren System (3.8.2 through 3.8.4 and 3.14.6)
- M. Door Latches, Hinges and Hardware (3.10.9)
- N. Static Load Test (3.10.5 and AMD 001)
- O. Patient Compartment Interior Surfaces (3.10.17 and FMVSS 302)
- P. Oxygen System Test (4.4.6, 3.12.1 and 3.12.1.1)
- Q. Oxygen Cylinder Restraint Test (3.11.3 and AMD 003)
- R. Litter Fastener and Anchorage (3.11.7 and AMD 003)
- S. Suction Aspirator System (3.12.3 and 3.12.4)
- T. Heating Criteria (3.4.2, 3.7.9 through 3.7.11, 3.6.3.2, 3.13.1 through 3.13.7)
- U. Air Conditioning Criteria (3.4.2, 3.7.9 through 3.7.11, 3.6.3.2, 3.13.7, 3.6.4.5.1 through 3.6.4.5.1)
- V. Ventilation Criteria (3.13.6)
- W. Patient Compartment Sound Level (3.13.8 and AMD 006)
- X. Patient Color and Markings (3.16 through 3.16.2 and 3.16.4)
- Y. Manuals and Handbooks (3.20 and 6.8)
- Z. Seat Belt Test (3.11.6)
- AA. Electromagnetic Radiation and Suppression (3.7.12)
- BB. Standard Miscellaneous Equipment (3.15.2)

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CC. Miscellaneous Equipment (3.7.5 and 3.9.5)

Does your bid comply with this requirement?

Yes () No ()

EXCEPTIONS

Exceptions shall be submitted as set forth in section A1.1.2 of this document. This agency will accept proposals from any business entity proclaiming to manufacturer vehicle(s) to conform with this specification. Further, this agency will not deny the right of any manufacturer to present their product. However, it should be noted, that any primary manufacturer that does not take exceptions shall produce the vehicle exactly as described. Failure to produce said vehicle may be grounds for this agency to pursue a resolution of damages through civil and criminal court.

Does your bid comply with this requirement?

Yes () No ()

PROPOSER INFORMATION:

Legal Name of Proposer

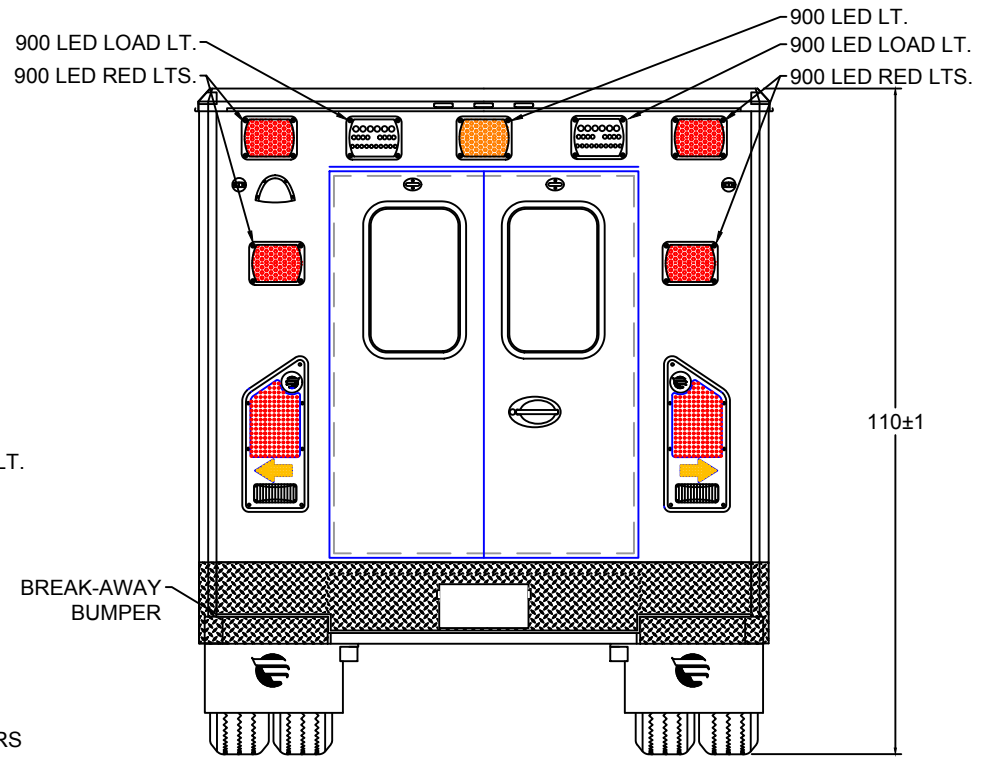
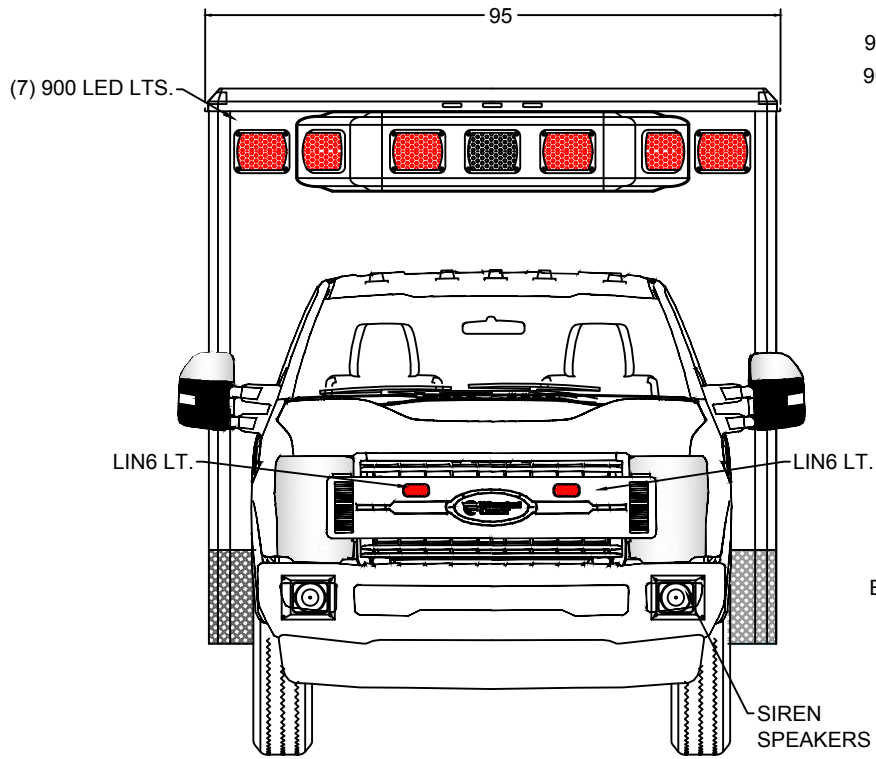
Address

Authorized Representative (Full Name & Title)

Signature

Example

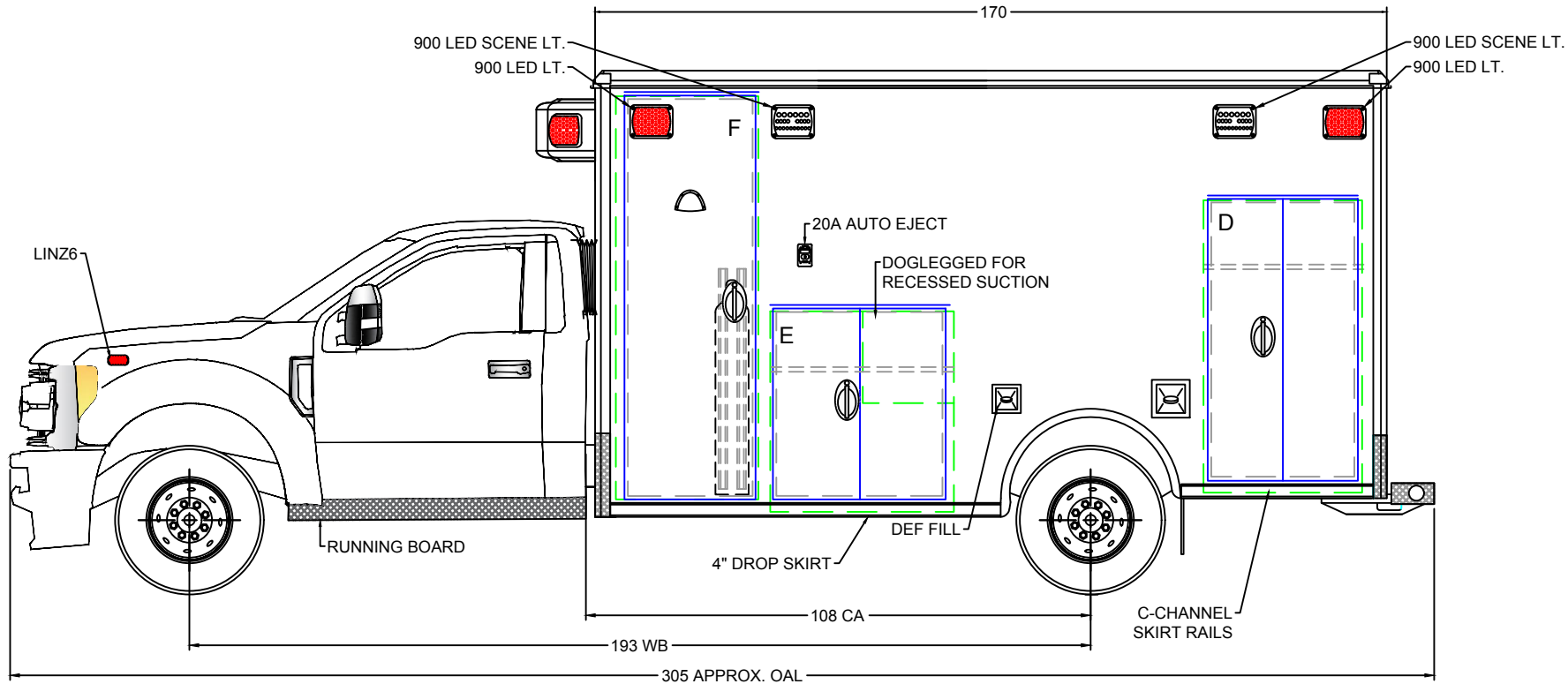
170 x 95 x 72



| EXTERIOR COMPARTMENT DIMENSIONS IN INCHES | | | | | | | | | | | | TYPE 1 FORD 2020 FRONT / REAR EXTERIOR VIEWS | |
|---|--------|-------|-------|-----------|-------|---|--------|-------|-------|--------------|-------|--|---------------|
| INTERIOR DIMENSIONS | | | | PASS THRU | | INTERIOR DIMENSIONS | | | | JAMB OPENING | | | |
| COMPT. | HEIGHT | WIDTH | DEPTH | HEIGHT | WIDTH | COMPT. | HEIGHT | WIDTH | DEPTH | HEIGHT | WIDTH | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 50" AISLE | | | | | | BE ADVISED THAT THESE ARE PRELIMINARY LAYOUTS INTENDED TO ILLUSTRATE DESIGN INTENT AND DIMENSIONS ARE FOR REFERENCE ONLY PRIOR TO FINAL ENGINEERING | | | | | | DATE: 5/18/20 | SCALE |
| | | | | | | | | | | | | DWN BY: AP | DWG NO: 1 / 9 |

170 x 95 x 72

Example



BE ADVISED THAT THESE ARE PRELIMINARY LAYOUTS INTENDED TO ILLUSTRATE DESIGN INTENT AND DIMENSIONS ARE FOR REFERENCE ONLY PRIOR TO FINAL ENGINEERING

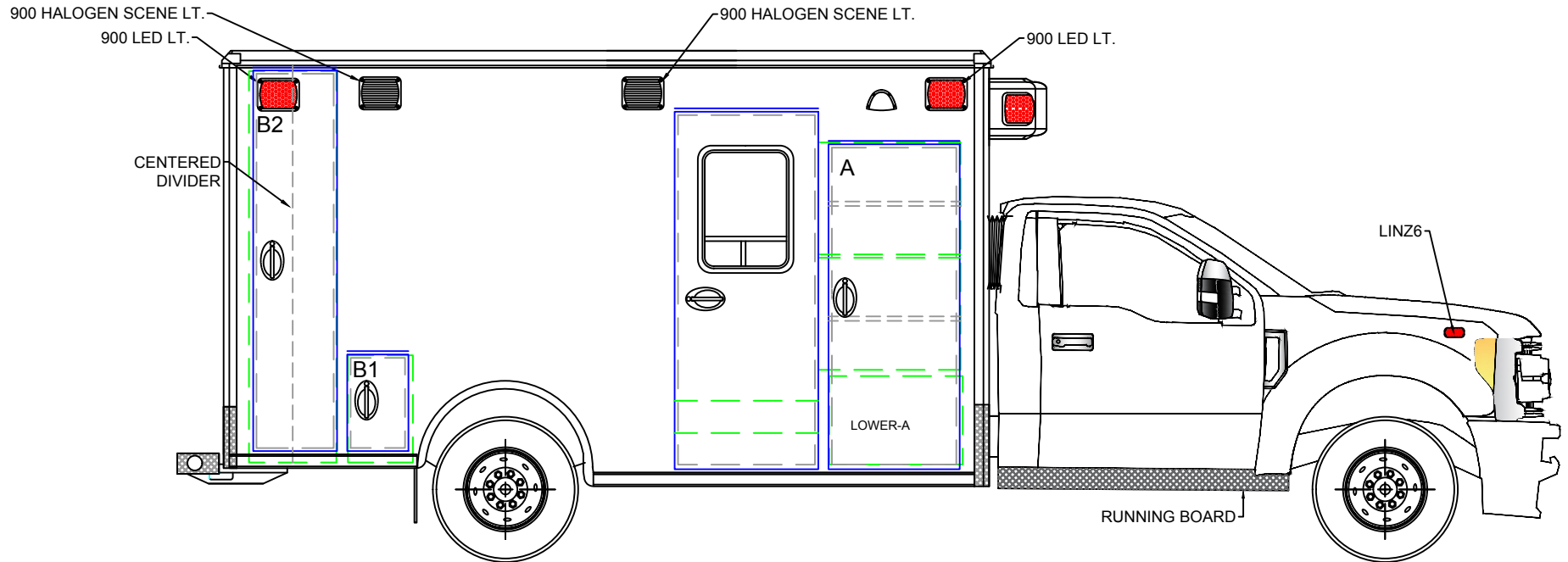
| EXTERIOR COMPARTMENT DIMENSIONS IN INCHES | | | | | | | | | | | |
|---|--------|-------|-------|--------------|-------|---------------------|--------|-------|-------|--------------|---------|
| INTERIOR DIMENSIONS | | | | JAMB OPENING | | INTERIOR DIMENSIONS | | | | JAMB OPENING | |
| COMPT. | HEIGHT | WIDTH | DEPTH | HEIGHT | WIDTH | COMPT. | HEIGHT | WIDTH | DEPTH | HEIGHT | WIDTH |
| D | 61.50 | 34.00 | 17.00 | 58.50 | 30.50 | | | | | | |
| E | 41.75 | 39.25 | 17.00 | 39.00 | 37.00 | | | | | | |
| F | 86.50 | 30.50 | 17.00 | 85.75 | 27.25 | | | | | | |
| 50" AISLE | | | | | | | | | | DATE | 5/18/20 |
| | | | | | | | | | | DRAWN BY | AP |
| | | | | | | | | | | SCALE | |
| | | | | | | | | | | DWG NO | 2 / 9 |

TYPE 1 FORD 2020

LEFT EXT. VIEW

Example

170 x 95 x 72

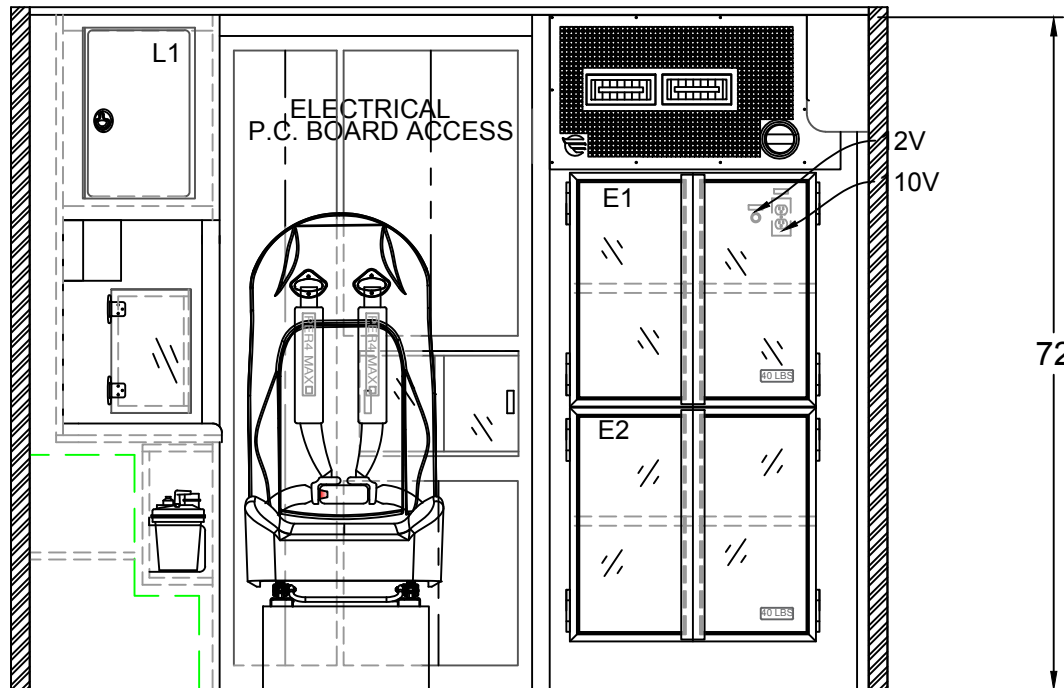


BE ADVISED THAT THESE ARE PRELIMINARY LAYOUTS INTENDED TO ILLUSTRATE DESIGN INTENT AND DIMENSIONS ARE FOR REFERENCE ONLY PRIOR TO FINAL ENGINEERING

| EXTERIOR COMPARTMENT DIMENSIONS IN INCHES | | | | | | | | | | | | TYPE 1 FORD 2020 RIGHT EXT. VIEW |
|---|--------|-------|-------|--------------|-------|---------------------|--------|-------|-------|--------------|-------|-------------------------------------|
| INTERIOR DIMENSIONS | | | | JAMB OPENING | | INTERIOR DIMENSIONS | | | | JAMB OPENING | | |
| COMPT. | HEIGHT | WIDTH | DEPTH | HEIGHT | WIDTH | COMPT. | HEIGHT | WIDTH | DEPTH | HEIGHT | WIDTH | |
| A | | | | 69.50 | 27.25 | | | | | | | |
| LOWER-A | 19.50 | 30.50 | 19.00 | | | | | | | | | |
| B1 | 22.50 | 14.25 | 17.00 | 19.25 | 12.00 | | | | | | | |
| B2 | 85.00 | 19.00 | 18.50 | 82.00 | 17.00 | | | | | | | |
| 50" AISLE | | | | | | | | | | | | DATE 5/18/20 |
| | | | | | | | | | | | | SCALE |
| | | | | | | | | | | | | DRAWN BY AP |
| | | | | | | | | | | | | DWG NO 3 / 9 |

Example

170 x 95 x 72



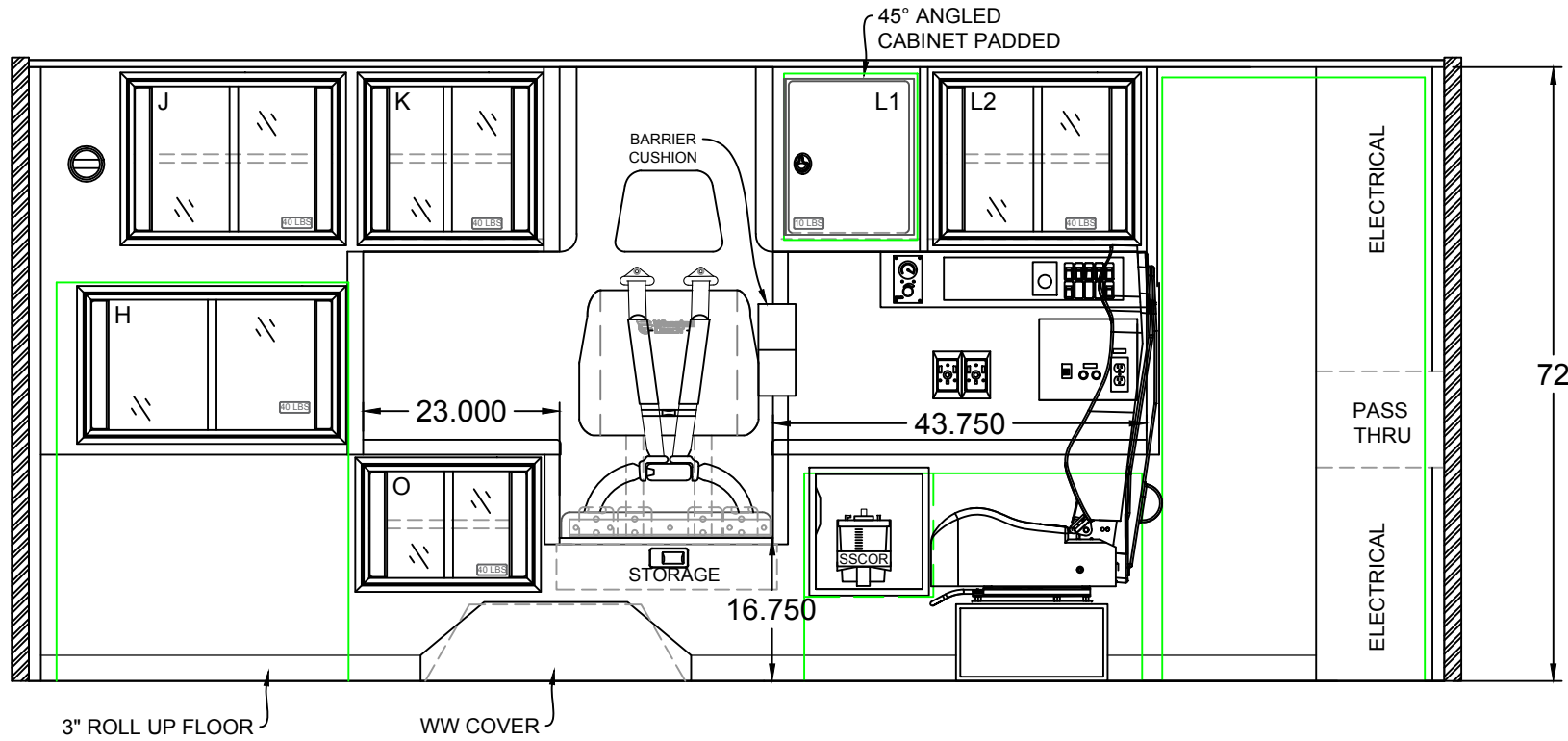
BE ADVISED THAT THESE ARE PRELIMINARY LAYOUTS INTENDED TO ILLUSTRATE DESIGN INTENT AND DIMENSIONS ARE FOR REFERENCE ONLY PRIOR TO FINAL ENGINEERING

| | | | | | | | | | |
|---|--|--------|-------|-------|---------|--------|-------|----------|---|
| <p><u>CABINET WEIGHT RATINGS:</u> NON-RESTOCKING = 40 LBS. RESTOCKING = 30 LBS.</p> | <p>INTERIOR CABINET DIMENSIONS IN INCHES</p> | | | | | | | | <p>TYPE 1 FORD 2020 BULKHEAD INTERIOR</p> |
| | CABINET | HEIGHT | WIDTH | DEPTH | CABINET | HEIGHT | WIDTH | DEPTH | |
| | E1 | 24.50 | 33.50 | 30.50 | | | | | |
| | E2 | 24.50 | 33.50 | 30.50 | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | DATE | SCALE |
| | | | | | | | | 5/18/20 | |
| | | | | | | | | DRAWN BY | DWG NO |
| | | | | | | | | AP | 4 / 9 |

50" AISLE

Example

170 x 95 x 72



INTERIOR CABINET DIMENSIONS IN INCHES

| CABINET | HEIGHT | WIDTH | DEPTH | | CABINET | HEIGHT | WIDTH | DEPTH | |
|---------|--------|-------|-------|--|---------|--------|-------|-------|--|
| H | 17.00 | 30.00 | IS/OS | | CPR | 4.50 | 23.50 | 18.25 | |
| J | 18.75 | 26.25 | 18.25 | | O | 14.25 | 20.25 | 18.25 | |
| K1 | 18.75 | 20.25 | 18.25 | | | | | | |
| L1 | 19.50 | 18.00 | 16.00 | | | | | | |
| L2 | 18.75 | 24.25 | 16.00 | | | | | | |

TYPE 1 FORD 2020
LEFT INTERIOR

DATE: 5/18/20 SCALE:
DWN BY: AP DWG NO: 5 / 9

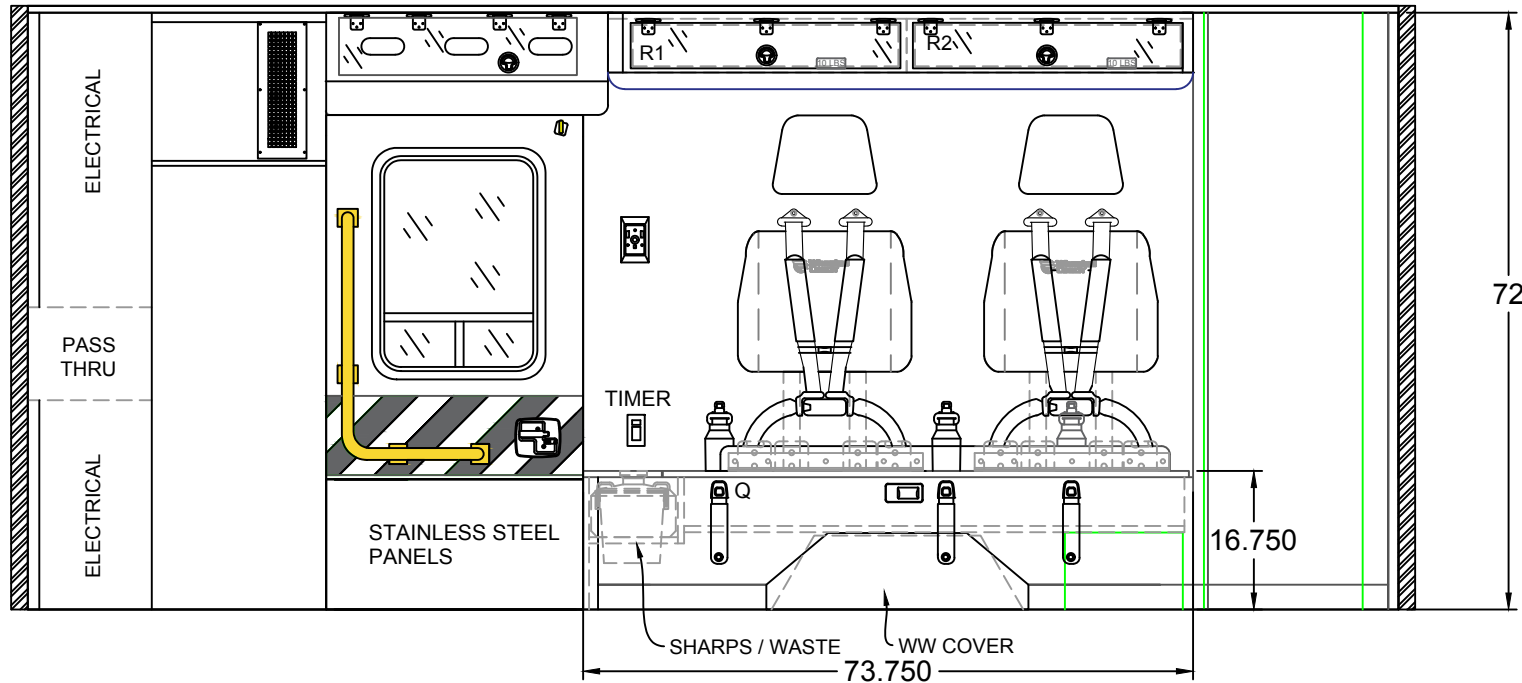
50" AISLE

CABINET WEIGHT RATINGS:
NON-RESTOCKING = 40 LBS.
RESTOCKING = 30 LBS.

BE ADVISED THAT THESE ARE PRELIMINARY LAYOUTS INTENDED TO ILLUSTRATE DESIGN INTENT AND DIMENSIONS ARE FOR REFERENCE ONLY PRIOR TO FINAL ENGINEERING

Example

170 x 95 x 72



INTERIOR CABINET DIMENSIONS IN INCHES

| COMPT. | HEIGHT | WIDTH | DEPTH | | COMPT. | HEIGHT | WIDTH | DEPTH | |
|--------|--------|-------|-------|--|--------|--------|-------|-------|--|
| R1/R2 | 5.00 | 32.50 | 7.00 | | | | | | |
| Q | 5.75 | 60.75 | 16.75 | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

TYPE 1 FORD 2020
RIGHT INTERIOR

DATE: 5/18/20 SCALE

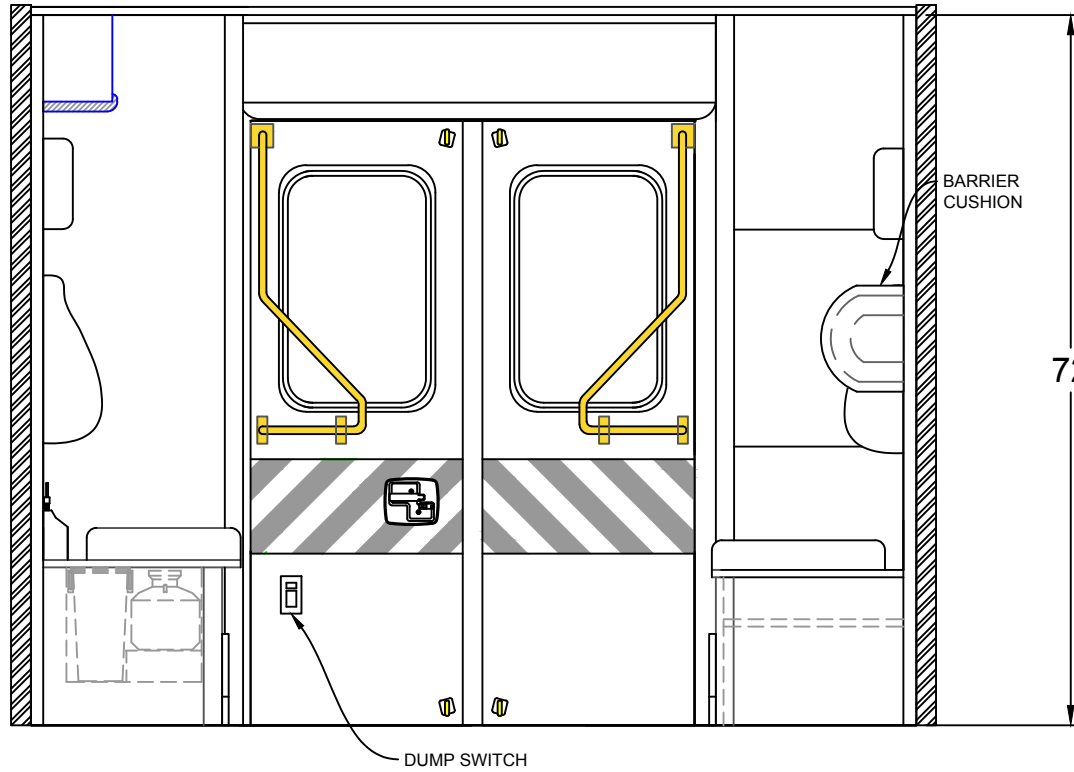
DWG BY: AP DWG NO: 6 / 9

50" AISLE
CABINET WEIGHT RATINGS:
NON-RESTOCKING = 40 LBS.
RESTOCKING = 30 LBS.

BE ADVISED THAT THESE ARE PRELIMINARY LAYOUTS INTENDED TO ILLUSTRATE DESIGN INTENT AND DIMENSIONS ARE FOR REFERENCE ONLY PRIOR TO FINAL ENGINEERING

Example

170 x 95 x 72



INTERIOR CABINET DIMENSIONS IN INCHES

| COMPT. | HEIGHT | WIDTH | DEPTH | | COMPT. | HEIGHT | WIDTH | DEPTH | |
|--------|--------|-------|-------|--|--------|--------|-------|-------|--|
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

TYPE 1 FORD 2020
 REAR BULKHEAD INTERIOR
 DATE: 5/18/20 SCALE
 DRAWN BY: AP DWG NO: 7 / 9

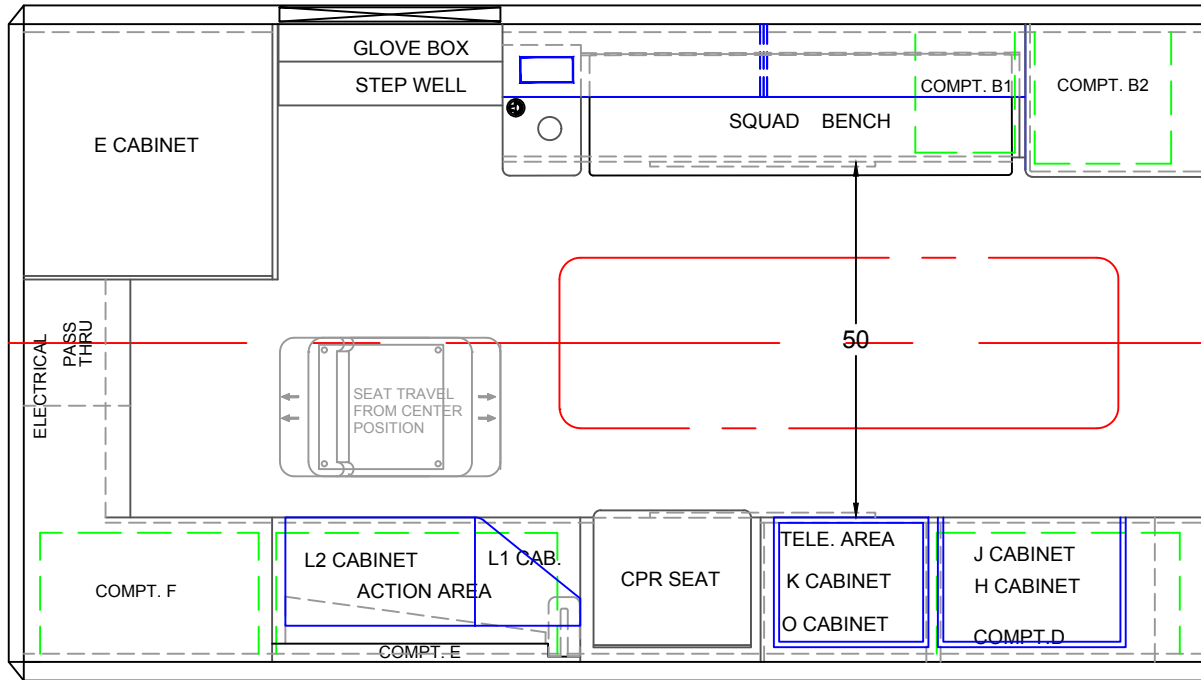
50" AISLE

CABINET WEIGHT RATINGS:
 NON-RESTOCKING = 40 LBS.
 RESTOCKING = 30 LBS.

BE ADVISED THAT THESE ARE PRELIMINARY LAYOUTS INTENDED TO ILLUSTRATE DESIGN INTENT AND DIMENSIONS ARE FOR REFERENCE ONLY PRIOR TO FINAL ENGINEERING

Example

170 x 95 x 72



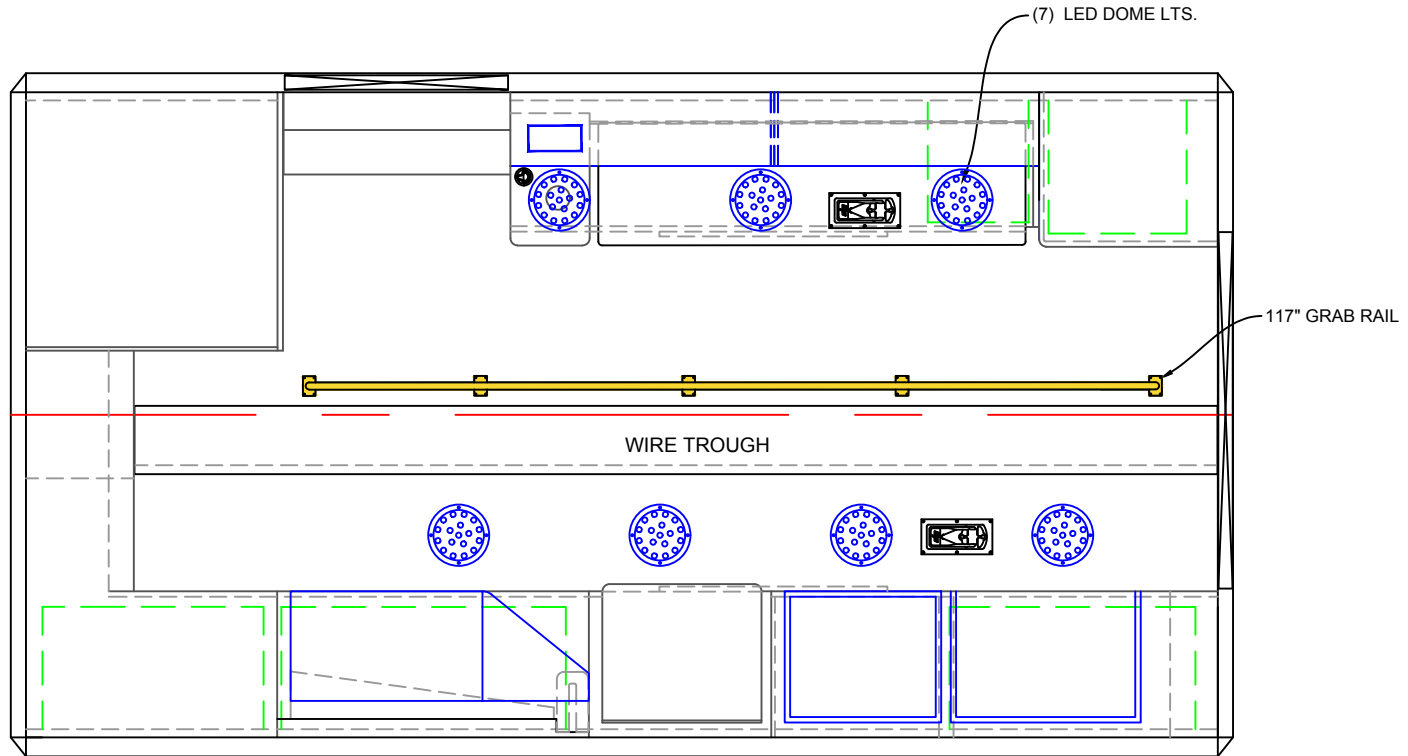
BE ADVISED THAT THESE ARE PRELIMINARY LAYOUTS INTENDED TO ILLUSTRATE DESIGN INTENT AND DIMENSIONS ARE FOR REFERENCE ONLY PRIOR TO FINAL ENGINEERING

| | INTERIOR CABINET DIMENSIONS IN INCHES | | | | | | | | |
|--|---------------------------------------|--------|-------|-------|---------|--------|-------|-------|--------------------------------|
| | CABINET | HEIGHT | WIDTH | DEPTH | CABINET | HEIGHT | WIDTH | DEPTH | |
| | | | | | | | | | TYPE 1 FORD 2020 FLOOR PLAN |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | DATE: 5/18/20 |
| | | | | | | | | | SCALE |
| | | | | | | | | | DWN BY AP |
| | | | | | | | | | DWG NO 8 / 9 |

50" AISLE

Example

170 x 95 x 72



BE ADVISED THAT THESE ARE PRELIMINARY LAYOUTS INTENDED TO ILLUSTRATE DESIGN INTENT AND DIMENSIONS ARE FOR REFERENCE ONLY PRIOR TO FINAL ENGINEERING

| INTERIOR CABINET DIMENSIONS IN INCHES | | | | | | | | | TYPE 1 FORD 2020 LINER |
|---------------------------------------|--------|-------|-------|---------|--------|-------|-------|--|---------------------------|
| CABINET | HEIGHT | WIDTH | DEPTH | CABINET | HEIGHT | WIDTH | DEPTH | | |
| | | | | | | | | | DATE: 5/18/20 |
| | | | | | | | | | SCALE |
| | | | | | | | | | DWN BY: AP |
| | | | | | | | | | DWG NO: 9 / 9 |

50" AISLE