



## **Jackson County Board of Commissioners**

67 Athens Street  
Jefferson, Georgia 30549  
Phone: (706) 367-6309  
Fax: (706) 708-2505  
Email: [myarbrough@jacksoncountygov.com](mailto:myarbrough@jacksoncountygov.com)

### **INVITATION TO BID**

*December 6, 2021*

Bid Number: 210001

Bid Name: Purchase ambulance

The Jackson County Board of Commissioners is soliciting bids to purchase an ambulance. Specifications, terms and conditions are contained herein.

BID DUE DATE/TIME: January 12, 2022 at 2:00PM EST

RETURN BID VIA: sealed bid, mail, or deliver to:

Jackson County Board of Commissioners  
Myrna Yarbrough, Purchasing Manager  
Attn: Finance Department – Bid # 210001 Purchase ambulance  
67 Athens Street  
Jefferson, GA 30549

PUBLIC BID OPENING DATE/TIME: January 12, 2022 at 2:00 PM Eastern Time

LOCATION: 67 Athens Street, Jefferson, GA 30549

DEADLINE FOR QUESTIONS: January 3, 2022 at 5:00 PM, EST

Direct all questions concerning this bid to:

*Myrna Yarbrough*

*Purchasing Manager*

*(706) 367-6309*

*[myarbrough@jacksoncountygov.com](mailto:myarbrough@jacksoncountygov.com)*

### **INSTRUCTION TO BIDDERS:**

Bidders must acknowledge, in writing, receipt of any issued addenda. Signed contract sheet, pricing sheet and completed specification must be submitted as part of this bid.

## **1. GENERAL INFORMATION FOR BIDDERS:**

A. From the issue date of this Invitation to Bid (ITB) until an award has been announced, vendors shall not communicate with any Jackson County elected official or employee, with the exception of the name stated above or the Purchasing Manager, concerning this ITB or any information herein.

B. Whenever the terms “shall”, “must”, “will”, or “is required” are used in the ITB, the item being referred to is a mandatory requirement of this ITB and failure to meet any mandatory requirement may be cause for rejection of the bid.

C. All amendments and or addendums will be posted on the Jackson County website [www.jacksoncountygov.com](http://www.jacksoncountygov.com) and at [www.vendorregistry.com](http://www.vendorregistry.com) . It is the bidder's responsibility to check this site on a regular basis. The Board will not be responsible for any information not viewed by bidders.

## **2. QUOTATIONS**

A. The Board of Commissioners reserves the right to:

- (1) waive formalities and technicalities in any quotation;
- (2) reject any and/or all quotations when in the Board's judgment, it will be in the best interest of the County;
- (3) accept the quotation that in its judgment will be in its best interest of the County;
- (4) purchase from any source, in part or in whole any supplies, equipment or services;
- (5) at its option, award on individual items or on a lump sum basis;
- (6) award this bid to the vendor who in the Board's opinion is most responsive and responsible and will perform in the best interest of the County;
- (7) negotiate final product and final price.

B. Price alone will not be the determining factor in award of this bid.

*C. The bidder may give quotations on any one or more items and may offer alternates where indicated, according to the attached specification. No substitutes will be accepted once order is placed.*

**3. PRICE:** Prices quoted shall include all costs and charges to include, but not limited to purchasing, packing, transporting the equipment and/or services described herein. The Jackson County Government is exempt from state sales tax. All fees shall be included in the bid price. Bidders must quote based on the bid unit listed.

**4. SAMPLES:** If samples are requested by the Board of Commissioners, they shall be at no charge to the BOC and will become property of the BOC, unless return is requested by the bidder in writing in their bid. Return of samples will be at bidder's expense.

**5. AWARD:** This bid will be awarded to one vendor.

**6. TRADE NAME:** Bidders are required to indicate the brands and models of merchandise and/or services quoted. Unless listed as "brand/model only", brand names and models listed in specifications are used as a standard of quality and/or clarification of desired product.

**7. MARKING:** Merchandise in full cases shall have an identification marking on the outside of the case. Each case, shipping container, etc. shall be marked with the Purchase Order Number supplied by the Board.

**8. SAFETY:** Material Safety Data Sheets shall be provided for all applicable items.

**9. DELIVERY:** Delivery of all materials from this quotation must be FOB destination to the Jackson County Board of Commissioners, 67 Athens Street, Jefferson, Georgia 30549. Delivery shall be made within the vendor's quoted days after receipt of order. Any item(s) not delivered within the time limit may be cancelled by BOC at no expense to same. No deliveries are accepted on Saturdays, Sundays or holidays. DELIVERY SHALL BE ACCOMPLISHED ON WEEKDAYS BETWEEN 8:00AM AND 4:00PM EASTERN TIME.

**10. INSPECTION:** All merchandise and services shall be subject to inspection after arrival at destination or completion of work. In case any items are found to be defective or otherwise not in conformity with specifications or statement of work, the Board has the right to reject such items and/or services and return them at bidder's expense.

**11. PAYMENT:** The Jackson County Board of Commissioners shall make payment for goods and services within thirty (30) days upon receipt, inspection and acceptance by BOC personnel and receipt of invoice. Payment may be made by check or by ACH.

**12. FACILITIES AND EQUIPMENT:** The bidder shall be responsible for the protection of the Jackson County Government's premises and property, and will be held liable for any damages caused by the bidder, bidder's employee(s) or bidder's agent(s) during the execution of this bid, resultant purchase orders or contracts.

**13. INTERPRETATION:** If a bidder contemplating submitting a price quotation is in doubt as to the true meaning of any part of these documents, submit a request for interpretation to the Purchasing Manager at (706) 367-6309. All such interpretations will be posted on the Jackson County Purchasing Information web page.

**14. INDEMNIFICATION:**

A. The bidder does hereby indemnify and shall hold harmless the Jackson County Government, its Board members, employees, agents, and servants (each of the foregoing being hereafter referred to individually as "Indemnified Party") against all claims,

demands, causes of actions, actions, judgments or other liability including attorney's fees (other than liability solely the fault of the Indemnified Party) arising out of, resulting from or in connection with the Bidder's performance or failure to perform this agreement, including but not limited to:

- (1). All injuries or death to persons or damage to property, including theft.
- (2). Bidder's failure to perform all obligations owed to the bidder's employees including any claim the bidder's employees might have or make for privilege, compensation or benefits under any BOC benefit plan.
- (3). any and all sums that are due and owing to the Internal Revenue Service for withholding FICA, and unemployment or other State and Federal taxes.

B. The bidder's obligation to indemnify any Indemnified Party will survive the expiration or termination of this agreement by either party for any reason.

**15. TERM OF CONTRACT:** By submitting a bid in response to this ITB, the bidder is agreeing to guarantee bid prices for the period of 90 days. The term may be extended for a period of six months upon agreement of both parties. During the term of this agreement, the vendor agrees to allow all other government agencies within the State of Georgia to piggyback off of this bid and obtain all parts and services at the same pricing.

**16. BID RECAP:**

- A. A bid summary will be available upon request from all responding bidders.
- B. A bid summary is available to all other requesters at no charge if requested within thirty days of bid award.
- C. After thirty days of bid award, bid documents are available under the Georgia Open Records Act. A written request must be made to the Jackson County Board of Commissioners.

**OTHER:** The undersigned offers and agrees to furnish any or all of the items upon which prices are quoted at the price set opposite each item, in the quantities described, delivered to the point(s) specified, in accordance with the terms and conditions set forth herein. The laws of the State of Georgia shall prevail concerning all purchases and services under this contract. The Jackson County Purchasing Ordinance governs the bid and award of this contract and may be found at <http://www.jacksoncountygov.com/334/Jackson-County-Bid-Information>

I certify that I have read and understand the terms and conditions herein except as stated below. I further state that I am and/or my company is capable, able to, and will provide the requested products and/or service described herein. I am the owner or agent of the company stated below and am authorized and empowered to contract. By my signature on this ITB, I/we guarantee and certify that all items included in my bid meet or exceed specifications.

I certify that this quotation is made without prior understanding, agreement, or connection with any corporation, firm or person submitting a quotation for the same materials, supplies, equipment, or services and is in all respects fair and without collusion or fraud. I understand collusive bidding is a violation of State and Federal Law and can result in fines, prison sentences, and civil damage awards. I agree to abide by all conditions of the quotation and certify that I am authorized to sign this quotation for the Contractor.

SUBMITTED BY \_\_\_\_\_ DATE \_\_\_\_\_

TITLE \_\_\_\_\_ EMAIL: \_\_\_\_\_

COMPANY NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_ CITY \_\_\_\_\_ ST \_\_\_\_\_ ZIP \_\_\_\_\_

TELEPHONE NUMBER \_\_\_\_\_ FAX NUMBER \_\_\_\_\_

COMPANY WEBSITE \_\_\_\_\_

SIGNATURE \_\_\_\_\_

== \*\*\*\*\*BID STANDARDS\*\*\*\*\*

Ambulance Built to Star Of Life KKK-A-1882-F Certification, Latest Revision

Invitation To Submit Competitive Bids

For Ambulance(s) And Equipment

*Jackson County Board of Commissioners* is soliciting competitive, sealed bids from qualified vendors for the purchase of One (1), medium duty, class one (4 x 2), configuration A ambulance(s) for *Jackson County EMS*. *Jackson County Board of Commissioner* reserves the right to reject any and/or all bids. *Jackson County Board of Commissioners* also reserves the right to accept the bid most advantageous to Jackson County EMS.

The attached specification defines a heavy-duty, commercial emergency medical vehicle, built to withstand adverse driving conditions. The vehicle shall meet or exceed the latest revision to federal specification KKK-A-1822, Federal Motor Vehicle Safety Standards (FMVSS), National Truck Equipment Association (NTEA) Ambulance Manufacturer's Division (AMD) Standards and Ford Qualified Vehicle Modifier (QVM) Program Truck Guidelines.

This invitation is extended to all qualified vendors/manufacturers that are specifically in the business of building emergency medical vehicles and/or equipment.

This invitation is issued by:

*Jackson County Board of Commissioners*

*67 Athens Street*

*Jefferson GA 30549*

GENERAL CONDITIONS:

PARTY IDENTIFICATION:

AGENCY: "Agency" is hereinafter defined as the customer. The customer is an individual or a group of individuals whom represent the interest of the city, borough, county, parish, state or private enterprise and has been charged with the responsibility of purchasing one or more emergency medical vehicle(s).

Bidder Complies YES\_\_\_\_\_ NO\_\_\_\_\_

BIDDER: "Bidder" is hereinafter defined as the vehicle manufacturer and/or its authorized representative. The bidder is an assigned representative who is authorized to commit to a contract with The "Agency".

Bidder Complies YES\_\_\_\_\_ NO\_\_\_\_\_

VENDOR: "Vendor" Is Synonymous With "Bidder".

Bidder Complies YES\_\_\_\_\_ NO\_\_\_\_\_

NOTICE TO BIDDERS: Bidders shall thoroughly examine any drawings, specifications, schedule, instructions and any other documents supplied as part of this invitation to bid. Bidders shall make all investigations necessary to thoroughly inform themselves regarding the content of the written specifications, drawings and instructions supplied herein. No pleas of ignorance by the bidder pertaining to the content of the specifications, drawings, schedule or instructions will be considered by the agency once the deadline for bid submission has occurred. Failure or omission on the part of the bidder to make the necessary examinations and investigations into the content of the specifications shall not be accepted as a basis for making variations to the spec. Failure or omission by the bidder to make all clarifications or explanations of exceptions and conditions that exist or that may exist hereafter shall not be accepted as a basis for making variations to the requirements of the agency or compensation to the bidder.

CLARIFICATIONS: Clarifications shall be written correspondence between the bidder, the agency and all other qualified bidders. A clarification shall include the paragraph number, page number, the text with unclear content (as written in the specification) and the definition of the clarification requested. Verbal clarifications shall be documented in writing and distributed to all other qualified bidders at least two business days prior to the deadline for bid submission.

EXPLANATION OF EXCEPTIONS: Bidders may take exceptions to any part of the bid contained herein with a written itemized schedule. The schedule shall include the paragraph

number(s), the text that the bidder feels he cannot comply within an explanation why the bidder feels that the requirement is not in the best interest of the agency and/or an alternate bidder solution. Alternate bidder solutions may be considered by the agency, if the bidder can show the agency that the alternate solution is, in quality and quantity, equal to or better than the specified item. This agency will share the exception/alternate solution with all other qualified bidders.

Explanation of exceptions shall be documented in writing at least two business days prior to the deadline for bid submission.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

CORE DESIGN INTENT: The core design intent of the specifications supplied herein is to purchase an ambulance with the highest level of engineering excellence. The "core design" intent of this vehicle shall be centered on the patient's need for pre-hospital care, in conjunction with a safe working environment for the emergency medical personnel.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

BID PACKAGES SHALL NOT TAKE TOTAL EXCEPTIONS: Bidders are required under this bid invitation to give, for the consideration of the agency, a proposal that will comply with the written specifications, drawings and schedules supplied herein. The specifications supplied represent a compilation of input from all disciplines of users, patients, maintenance and management personnel who are directly affected by the vehicle's performance.

Careful consideration pertaining to safety, configuration, construction, and workmanship are based on working experiences by all the personnel who have direct, working contact with the subject vehicle specified herein. The "core design" of this ambulance was created as a result of resolving issues and improvement suggestions that have originated from the personnel most QUALIFIED to make such input. A bidder who submits a bid that takes "total exception" and makes an offering of some "standard" or "stock" unit will be viewed by the agency as a bidder who did not make, and is not prepared to make, a valid bid, and is not qualified to manufacture the ambulance as specified herein. Alternate bids will not be considered.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

VEHICLE QUANTITY: THIS AGENCY is currently seeking to purchase one vehicle per the specifications set forth in this solicitation for bid. This agency and/or other government or private agencies that qualify to purchase under this contract will reserve the right to increase the number of vehicles purchased without incurring an obligation to obtain bids from other vendors for a period of two years. A contract extension may be provided to the successful, qualified vendor who has performed satisfactorily to the original contract.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

#### VENDOR QUALIFICATIONS:

FORD QVM: All bidders shall be members in good standing of the ford motor company's qualified vehicle modifier program (QVM). Each bidder shall supply a copy of their valid QVM certification with their bid package. If for any reason the QVM certification has been withdrawn or suspended by ford motor company within the past five years, the bidder shall supply a full written explanation as to why it was withdrawn. The written explanation shall include any corrective actions taken to regain the QVM certification.



Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

PRODUCT LIABILITY INSURANCE: Proof of current liability insurance shall be supplied. The proof of insurance shall bear the insurance carrier's name, address and phone number. The proof shall also bear the name and address of the insured. This document shall contain the coverage schedule, explaining the type of insurance, the policy number, the effective date of coverage, the policy expiration date and the individual limits.

The minimum amount of coverage shall be as follows:

Commercial General Liability - As Follows:

Each Occurrence: \$1,000,000

Damage To Rented Premises, Each Occurrence: \$300,000

Personal And Adv Injury: \$1,000,000

General Aggregate: \$4,000,000

Products - Comp/OP Agg: \$4,000,000

Automotive Liability - Combined Single Limit: \$1,000,000

Excess Liability – Occur

Each Occurrence: \$10,000,000

Aggregate: \$10,000,000

Workers Compensation And Employers' Liability

E.L. Each Accident: \$1,000,000

E.L. Disease Policy - Each Employee: \$1,000,000

E.L. Disease - Policy Limit: \$1,000,000

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

NON-DISCRIMINATION AND EQUAL OPPORTUNITY: The bidder/contractor agrees to comply with all federal statutes relating to non-discrimination. These include but are not limited to: (a) title vi of the civil rights act of 1964 (p.l. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) title ix of the education amendments of 1972, as amended (20 U.S.C. 1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) section 504 of the rehabilitation act of 1973, as amended (29 U.S.C 794), which prohibits discrimination on the basis of handicaps and the Americans with disabilities act of 1990; (d) the age discrimination act of 1974, as amended (42 U.S.C. 6101-6107), which prohibits discrimination on the basis of age:

- (e) the drug abuse office and treatment act of 1972 (p.l. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse:
  - (f) the comprehensive alcohol abuse and alcoholism prevention, treatment and rehabilitation act of 1970 (p.l. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism:
  - (g) 523 and 527 of the public health service act of 1912 (U.S.C. 290 dd-3 and 290 ee-3), as amended, relating to confidentiality of alcohol and drug abuse patient records:
  - (h) title viii of the civil rights act of 1968 (42 U.S.C. 3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing:
  - (i) any other nondiscrimination provisions in any specific statute(s) applicable to any federal funding for this agreement:
  - (j) the requirements of any other nondiscrimination statute(s) which may apply to this agreement.
- Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

**DRUG FREE WORK PLACE:** The bidder shall conduct business as a drug free workplace. The bidder/manufacturer and all of its sub-contractors shall provide notice to their employees and sub-contractors as required under the drug-free workplace act of 1988. A copy of bidder's drug-free workplace policy shall be furnished to this agency upon request.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

**QUALITY MANAGEMENT SYSTEM REGISTERED:** The manufacturer shall have a certificate of registration for iso 9001(tm) 2015 for their quality management system (QMS). The QMS provides establishment, documentation, implementation, maintenance and improvement of management systems that impact the final quality of the product. Registration of the vendor's QMS demonstrates an enduring commitment to quality, a sharp focus on the customer, and robust communication throughout the product process chain to the customer. This registration provides for oversight with routine inspection of the QMS to maintain certification status. Proof of certification shall be readily available upon demand. Proof of certification shall be provided with bid during initial bid process.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

#### NATIONAL TRUCK EQUIPMENT ASSOCIATION TESTING

**AMD 001 AMBULANCE BODY STRUCTURE STATIC LOAD TEST:** The ambulance described herein shall be type tested to the national truck equipment association's ambulance manufacturing division, standard 001 ambulance body structure static load test except the test weight shall be a minimum of two and a half (2-1/2) times the curb weight of the built vehicle.

**AMD 003 OXYGEN TANK RETENTION SYSTEM STATIC TEST:** The ambulance described herein shall be type tested to the national truck equipment association ambulance manufacturing

division, standard 003 - oxygen tank retention system static test. The test shall be conducted by an independent testing laboratory.

Safety is this agency's first concern. Main cylinder control is extremely important and is crucial to the safety of the patient, public passengers and crew. If the bidder has experienced a cylinder rack separation from the oxygen compartment wall, or if the cylinder has come loose from the cylinder restraining device, then the bidder shall supply this agency with a report containing the date, a full explanation of the incident and corrective actions taken to prevent future failures. Main oxygen/air cylinders that come loose during a collision indicate mechanical defects in the design of the restraining device or the mounting method. Any AMD standard 003 testing prior to the incident is deemed invalid, regardless of the expiration date of the original test.

AMD 004 LITTER RETENTION SYSTEM STATIC TEST: The cot/litter retention system described herein shall be tested to the national truck equipment association, ambulance manufacturing division standard 004 - litter retention system static test. The cot mount hardware, mounting method and floor reinforcement areas shall exceed the test as described in amd 004. This test shall be conducted by an independent testing laboratory.

Safety is this agency's first concern. Main cot/litter retention is critical to patient care. If the bidder has experienced a litter ejection due to a hardware defect or a defect in the mounting method, then the bidder shall supply the agency with a report containing the date, a full explanation of the incident and corrective actions taken to prevent future ejections. Main cot/litter ejection's that occur during a collision indicates mechanical defects in the design of the restraining device or the mounting method. Therefore, all bidder AMD standard 004 testing dated prior to the incident is deemed invalid, regardless of the expiration date of the original test.

AMD 005 - 12-VOLT DC ELECTRICAL SYSTEMS TEST: The 12-volt dc electrical system described herein shall be tested to the national truck equipment association, ambulance manufacturing division standard 005 - 12-volt dc electrical system s test. This test is valid for the test article vehicle only. The test shall be conducted on each ambulance. The results of the test shall be recorded on an electrical system performance sheet and shall be included with the delivery documents. This test shall be conducted by a qualified quality control electrician at the ambulance manufacturing plant.

Reliability and safety is this agency's first concern. The 12-volt electrical system must be function under all normal or adverse driving and operating conditions. Each electrical device, electrical component, wire, wire route and connection quality shall be tested for reliability as a "system" on each vehicle sold. If the bidder has experienced an electrical fire or an electrical failure resulting in a disabled ambulance going to an emergency call or during transportation, shall supply this agency with a report containing the date, a full explanation of the incident and corrective actions taken to prevent future electrical failures.

AMD 006 - PATIENT COMPARTMENT SOUND LEVEL TEST: The ambulance described herein shall meet or exceed the national truck equipment association ambulance manufacturing

division standard 006 – patient compartment sound level test. The sound level in the driver or patient cabin shall be eighty decibels or less under the conditions described in AMD standard 006.

AMD 007 - PATIENT COMPARTMENT CARBON MONOXIDE LEVEL TEST: The ambulance described herein shall meet or exceed the national truck equipment association, ambulance manufacturing division standard 007 - patient compartment carbon monoxide level test. The patient and driver cabin shall be environmentally sealed from carbon monoxide gases that are emitted from internal combustion engines. The ambulance specified herein shall have safe carbon monoxide levels of ten parts per million or less while the vehicle is exposed to the conditions described in AMD standard 007.

AMD 008 - PATIENT COMPARTMENT GRAB RAIL STATIC LOAD TEST: The patient cabin grab rails shall be tested to the national truck equipment association, ambulance manufacturing division standard 008 -patient compartment grab rail static load test. The ceiling mounted grab rails shall be subject to a three-axis load of three hundred pounds. The ceiling mounted grab rail shall not come loose from the ceiling or permanently deform. All mounting fasteners shall be threaded into metal structure not less than .125 inches thick.

AMD 009 - 125-VOLT AC ELECTRICAL SYSTEMS TEST: The patient cabin shall be wired per the national truck equipment association, ambulance manufacturing division standard 009 - 125 -volt ac electrical systems test. The ambulance wiring shall comply with the national electric code in effect at the time of manufacture of the ambulance. The system specified herein shall be a 2-wire system with a ground. All outlets and 120-volt hard wired devices, on the ambulance, shall have ground fault interrupter protection.

AMD 010 - WATER SPRAY TEST: the ambulance specified herein shall be water spray tested for water leakage into the patient's and driver's cabins. The door to jamb seal, window installation and seals shall be tested against leakage per the national truck equipment association, ambulance manufacturing division standard 010 - water spray test. This test shall be conducted on each ambulance by the quality assurance department.

AMD 011 - EQUIPMENT TEMPERATURE TEST: The ambulance and equipment specified herein shall operate satisfactorily operate between 30 degrees and 125 degrees Fahrenheit per the national truck equipment association, ambulance manufacturing division standard 011 - equipment temperature test. This standard must be type certified by an independent testing laboratory on a like test model.

AMD 012 - INTERIOR CLIMATE CONTROL TEST: The ambulance and equipment specified herein shall be equipped with a hvac (heating, ventilation, and air conditioning) system that will meet or exceed the performance criteria set forth in the national truck equipment association,

ambulance manufacturing division standard 012 - interior climate control test. This standard must be type certified by an independent testing laboratory on a like test model.

AMD 013 - WEIGHT DISTRIBUTION GUIDELINES: The ambulance specified herein shall be weighed at the end of the ambulance manufacturer's production cycle to assure compliance with the national truck equipment association, ambulance manufacturing division standard 013 - weight distribution guidelines.

The vehicle specified herein must be weighed on a four-point scale that measures the weight imposed on each wheel. The side to side weight difference tolerance shall not exceed five percent (5%). The total weight imposed on the front axle shall not exceed the chassis manufacturer's gross axle weight rating minus three hundred pounds. The total weight imposed on the rear axle shall not exceed the chassis manufacturer's gross axle weight rating minus one thousand pounds. The aggregate total of all four points shall not exceed the gross vehicle weight rating minus eleven hundred pounds regardless of customer specified equipment.

AMD 014 - ENGINE COOLING SYSTEM TEST: The cooling system in the ambulance specified herein shall be tested to assure compliance with the national truck equipment association, ambulance manufacturing division standard 014 engine cooling system test. The vehicle specified herein must be tested at the end of the ambulance manufacturers manufacturing cycle to determine if the cooling system capacity is adequate to maintain safe engine operating temperature at ninety-five degrees, ambient temperature for one hour. Each ambulance shall be checked to assure a leak and trouble-free cooling system performance.

AMD 015 - AMBULANCE MAIN OXYGEN SYSTEM TEST: Each ambulance's main oxygen system shall be tested to assure compliance with the national truck equipment association, ambulance manufacturing division standard 015 ambulance main oxygen system test. The subject vehicle specified herein must be equipped with an oxygen system that can withstand a 150-psi charge of dry air or nitrogen for a period of four hours without a loss exceeding five pounds per square inch of pressure. The results of this test shall be posted inside the oxygen tank stowage compartment. A certificate shall be supplied, describing the test conditions, the initial test pressure, the final pressure (after four hours) and the name of the inspector who performed the test.

AMD 016 - PATIENT COMPARTMENT LIGHTING LEVEL TEST: The ambulance and equipment specified herein shall be equipped with patient compartment lighting that will meet or exceed the performance criteria set forth in the national truck equipment association, ambulance manufacturing division standard 016 – patient compartment lighting level test. This standard must be type certified by an independent testing laboratory on a like test model.

AMD 017 - ROAD TEST: The ambulance and equipment specified herein will meet or exceed the performance criteria set forth in the national truck equipment association, ambulance manufacturing division standard 017 - road test. This standard must be type certified by an independent testing laboratory on a like test model.

AMD 018 - REAR STEP AND BUMPER STATIC LOAD TEST: The rear step and bumper shall be type tested to the national truck equipment association, ambulance manufacturing division standard 018 - rear step and bumper static load test. This standard must be type certified by an independent testing laboratory on a like test model.

AMD 019 - MEASURING GUIDELINES: COMPARTMENTS AND CABINETS, The ambulance specified herein shall be in compliance with the national truck equipment association, ambulance manufacturing division standard 019 - measuring guidelines: compartments and cabinets.

AMD 020 - FLOOR DISTRIBUTED LOAD TEST: The ambulance specified herein shall be type tested to the national truck equipment association, ambulance manufacturing division standard 020 - floor distributed load test. This standard must be type certified by an independent testing laboratory on a like test model.

AMD 021 - ASPIRATOR SYSTEM TEST, PRIMARY PATIENT: Each ambulance's primary patient aspirator system shall be tested to assure compliance with the national truck equipment association, ambulance manufacturing division standard 021 - aspirator system test, primary patient.

AMD 022 - COLD ENGINE START TEST: The ambulance specified herein shall be type tested to the national truck equipment association, ambulance manufacturing division standard 022 - cold engine start test.

AMD 023 - SIREN PERFORMANCE TEST: The ambulance siren system shall be type tested to the national truck equipment association, ambulance manufacturing division standard 023 - siren performance test.

AMD 024 - PERIMETER ILLUMINATION TEST: The ambulance and equipment specified herein shall be equipped with perimeter lighting that will meet or exceed the performance criteria set forth in the national truck equipment association, ambulance manufacturing division standard 016 - perimeter illumination test. This standard must be type certified by an independent testing laboratory on a like test model.

AMD 025 - MEASURING GUIDELINES: OCCUPANT HEAD CLEARANCE ZONES: The ambulance specified herein shall be in compliance with the national truck equipment association, ambulance manufacturing division standard 025 - measuring guidelines: occupant head clearance zones.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

CRASHWORTHINESS: Safety is a primary objective for modular ambulance vehicles produced under this specification. In addition to compliance with design criteria incorporated herein, manufacturer shall also provide certified documentation to provide proof of crash worthiness of vehicle(s) proposed. Crash worthiness of vehicle shall be demonstrated through a minimum of two actual crash tests of modular body ambulance under laboratory conditions. These crash tests will be similar in scope to testing performed by the national highway traffic safety administration and the Insurance Institute for Automobile Safety to verify the crash-worthiness of passenger vehicles. An independent test laboratory accepted and utilized by The National Highway Traffic Safety Administration for their crash tests shall perform this testing and provide certification. Testing shall be performed and verified by SAE member engineers. Test criteria shall be defined as a minimum of two actual high-speed impact crash tests between an ambulance and mid-size passenger vehicles. Collisions shall be into each side of manufacturer's standard production modular ambulance body mounted on a chassis, struck by an actual bullet vehicle. Crash energy at impact shall be a minimum of 3,000 pounds at 42 miles per hour.

Reports from crash testing shall be certified by testing lab, And shall include the following minimum results:

1) The required six-point medic restraint system shall hold all attendants in their seats. there shall be no head contact with anything except head rests. There shall be no excessive excursion of the attendants in their seats regardless of which way they were facing.

2) The ambulance body structure shall remain intact after both impacts. Bending of body shall be localized to point of impact, and doors adjacent to the actual crash point shall continue to operate. There shall be no intrusion into the patient compartment.

3) The body mount and pucks shall remain intact as a result of the impacts. There shall be no visual damage to body mounts or floor structure.

4) All interior cabinetry and fixtures shall remain in place and undamaged. This provision requires actual crash testing of an ambulance by high-speed moving vehicles to validate safety and crash worthiness. Crash simulations, acceleration Testing, sled testing: Barrier testing or other theoretical tests are not sufficient to meet this requirement. Certified documentation from a qualified independent testing laboratory shall be provided with the bid in order to validate compliance with this requirement. Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

BODY NUMBER

MICKEY BODY DUE DATE :

REFERENCE UNIT #: 21ML25847

SPECIFICATION COMPLIANCE: The vendor shall inspect and test all systems, electrical loads, per current

federal specification kkk-a-1822 section 4. Testing results shall be documented and displayed in the oxygen compartment and/or supplied with the delivery handbook.

QUALITY/COMPLIANCE ASSURANCE: A thorough quality/compliance inspection by this agency's employees or this agency's hired representative shall compare the ambulance to the specifications within 10 calendar days of written notice of vehicle completion by the successful bidder. The notice may be faxed, followed by phone contact. The customer reserves the right the bidder's dealer to conduct the inspection provided the dealer is authorized and qualified to correct quality/compliance issues at the dealer site.

Bidder Complies YES\_\_\_\_\_ NO\_\_\_\_\_

NON-COLLUSIVE BID CERTIFICATION: By submission of this bid response, the bidder and/or the bidder's authorized representatives, certify under penalty of perjury, that to the best of their knowledge and belief the following:

A) The prices in the bid response have been arrived at independently without collusion, consultation, communication, or agreement for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor, and:

B) Unless otherwise required by law, the prices which have been quoted in the bid response have not knowingly been disclosed by the bidder and will not knowingly be disclosed by the bidder, prior to the public bid opening, either directly or indirectly to any competitor, and:

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

Bidder Complies YES\_\_\_\_\_ NO\_\_\_\_\_

DEBARMENT STATUS: By submission of this bid response, the bidder and/or its authorized representative, certify under penalty of perjury, that to the best of their knowledge and belief they are not currently debarred from submitting bids or bid on contracts by any agency within the home state of this agency, nor are they an agent of any person or entity that is currently debarred from submitting bids on contracts by any agency within the home state of this agency.

WARNING: this agency will not tolerate vendors who state compliance to specifications but deliver an incomplete product and/or sub-standard materials and workmanship. Vendors who have made delivery of such an ambulance without making every reasonable effort to remedy the defects found at the time of delivery or within the warranty period will be notified that they are debarred from submitting bids to this agency in the future. This agency will not waste valuable time (more than once) trying to recover legal costs and deal with lost in-service time of new apparatus, working with vendors who are unresponsive to the needs of this agency.

Bidder Complies YES\_\_\_\_\_ NO\_\_\_\_\_



CHASSIS

TYPE I MEDIUM DUTY AMBULANCE: The Apparatus Shall Be A Class 1, Configuration A, 2-Door Conventional Cab And Chassis With A Transferable, Modular, Ambulance Body.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

CHASSIS

TYPE I AMBULANCE: The apparatus shall be a 2021 or newer Class 1, Configuration A, 2-door Conventional cab and chassis with a transferable, modular, ambulance body.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

OEM: The acronym OEM is Original Equipment Manufacturer. The OEM is the chassis manufacturer and the vehicles Make Origin.

CHASSIS MAKE AND MODEL: The chassis shall be manufactured by Freightliner Truck. The model shall be an M2 106MD, Business Class, 4x2, low profile, regular two door cab with a 168 inch wheel base.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

CHASSIS: POWER TRAIN / FUNCTIONAL ITEMS

ENGINE: A Cummins model ISB-300, three hundred (300 HP), inline six cylinder Diesel engine shall be provided with a minimum displacement of 6.7 liters (402 cu in). The engine shall deliver 660 foot-pounds of torque at 1,600 crank revolutions per minute. The engine performance shall comply with or exceed

KKK-A-1822F.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

TRANSMISSION: An Allison 2200-EVS 5-speed, close ratio automatic transmission with over-drive shall be provided. This transmission shall have a maximum input rating of 660-pound feet of torque.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

TRANSMISSION SHIFTER: A "T" Handle Shift Control Shall Be Supplied Mounted On The Dash By The OEM.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

BATTERIES: Four (4) Group 31 batteries shall be mechanically tied down to the tray in the right front bottom compartment. The hold downs shall be easily removed for battery replacement: however the hold down device shall not interfere with in tray charging via external charger. The batteries shall be high cycle type with a minimum 730 Cold cranking amps at zero degrees Fahrenheit.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

Terminals, Battery: 3/8" LUG, Copper Alloy - (4) Batt

BRAKES: 4-wheel anti-lock, air brakes shall be supplied by the OEM. The brakes shall be 4-wheel drum type. The parking brake shall be an independent air over mechanical, provided by the OEM

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

EXHAUST SYSTEM: A single muffler with an integrated catalytic converter shall be supplied and installed by the OEM. The emissions shall meet present year 50-state clean air standards. The termination point shall be forward of the rear wheels on the driver's side.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

FRONT AXLE WEIGHT RATING (FAWR): The front axle shall be a Detroit DA-F-8.0-2. The FAWR shall be rated no less than 8,000 pounds.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

FUEL TANK: An under cab, 34 gallon capacity shall be provided by the OEM. The fuel range shall be at least 250 miles per KKK-A-1822.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

UREA TANK: The chassis shall be ordered with a single 6 US Gallon, Left Hand, mounted under cab with inlet near top of tank cover.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

GROSS VEHICLE WEIGHT RATING (GVWR): The gross vehicle weight rating shall be defined as the combined weight rating of the weakest components at each axle. The vehicle curb weight of the finished apparatus shall not exceed seventy eight (78) percent of the total gross vehicle weight rating. The GVWR of the chassis supplied shall be at least 24,880 pounds.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

REAR AIR SUSPENSION: A Freightliner Airliner (OEM) 12,000 pound rear air suspension shall be provided to increase ride quality. Air supply to the rear suspension shall be supplied from the engine driven aircompressor. Dual leveling valves shall be installed to correct minor

vehicle listing, due to air pressure variables. The curb weight of the conversion shall not exceed 1.5% variable left to right. A Ping Tank shall be installed to soften the deflection rate of the air bags and to absorb the shock normally felt during a high amplitude suspension jounce.

A Kneeling feature shall be supplied to adjust the load height 3" to 3-½". The vehicle shall kneel only if the transmission is placed in Park or neutral. The trigger for the kneeling feature shall be to turn ON the ENABLE switch in the cab console and simply open the TRAILING rear access door. The Enable switch is installed to reduce suspension cycling when not loading a patient and to save the air supply. The air supply holding tank shall have enough capacity to cycle the suspension from dumped to ride height without falling below 60psi tank pressure.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

REAR AXLE: The rear axle shall be a single speed Meritor RS-15-120.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

REAR AXLE WEIGHT RATING (RAWR): The RAWR shall be rated no less than 15,000 pounds.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

REAR AXLE TYPE AND RATIO: The axle shall be with a 4.30:1 gear ratio shall be provided.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

DUMP ACTIVATION: The vehicle shall kneel when the trailing rear access door is opened. The trailing rear access door is the second one to open. The vehicle shall kneel only if the transmission is placed in Park or

Neutral. The activation through this switch shall be through an ENABLE switch as specified below.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

DUMP ENABLE SWITCH: The Enable switch is installed to reduce suspension cycling when not loading a patient and to save the air supply. The switch shall be located in the center CAB console.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

#### CHASSIS: EXTERIOR ITEMS

AIR HORNS: Two Grover model No 1510 "Stutter Tone" air horns shall be supplied and installed on each front fender. Each horn shall feature a mounting pedestal that is cast onto the sound unit and a bell support bracket located at a forward position on the horn bell. The front bracket shall feature a rubber insulator at the contact points to prevent finish damage to the bell and to minimize bell vibration.

An air passage designed to deliver air flow to the sound unit diaphragm shall be drilled into the pedestal with an NPT thread at the base for air line fitting installation. Exposed air line or air line fittings are not acceptable. Each horn bell shall measure twenty four and one half (24 1/2") inches long. Each horn shall emit a 128 decibel sound blast measured at five feet from the horn bell at 200 MHz (megahertz). The horns shall function adequately at a minimum air pressure of sixty (60) pounds per square inch. Air horn plumbing shall be flexible nylon "air brake" type

tubing capable of supplying twenty two (22) CFM (cubic feet per minute) of air volume at ninety (90) PSI (pounds per square inch) of air pressure.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

ELECTRIC HORNS: Two OEM twelve volt electric horns shall be installed on the chassis at a forward location.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

DAYTIME RUNNING LIGHTS: Daytime running lights shall be OEM on the Chassis.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

PARKING BRAKE: A dash mounted air valve shall pressurize or depressurize an air over mechanical parking brake. The parking brake shall be a drive-line mounted with a drum that requires air pressure to release. Setting this parking brake shall automatically shift the transmission into neutral and turn on an indicator light in the dash.

MIRRORS: Dual OEM, right and left hand West Coast mirrors with heated glass shall be supplied and installed by the OEM. The door mounted mirrors shall be set for 102" equipment width. The mirror heads shall feature a mold-in colored body. Both mirror heads shall feature electric remote position controls.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

CONVEX SIDE MIRRORS: Dual eight inch (8") OEM Convex mirrors shall be supplied and installed by the OEM.

FRONT TIRES: Both front tires shall be identical make, tread type, size and load range. For aforementioned GVWR the tires shall be Michelin 245/70R19.5 load range F with over the road type tread pattern. The tread pattern shall operate silently. Tire "sing" is not acceptable. A label with the recommended tire pressure shall be located above each wheel opening, unless specified otherwise by the purchaser. All tires shall be balanced per KKK-A-1822F 3.6.12.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

REAR TIRES: All four rear tires shall be identical make, tread type, size and load range. For aforementioned GVWR the tires shall be Michelin 245/70R19.5 load range F with over the road type tread pattern. The tread pattern shall operate silently. Tire "sing" is not acceptable. A label with the recommended tire pressure shall be located above each wheel opening, unless specified otherwise by the purchaser. All tires shall be balanced per KKK-A-1822E 3.6.12.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

Spare Tire: There shall be a spare tire and wheel with a Michelin 245/70R 19.5 14 Ply (RoadTread)

WHEELS: The chassis front wheels and rear wheels shall be Alcoa Aluminum Polished 19.5" x 6.75" aluminum disc.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

RIM HUB COVERS: There shall be stainless steel center hub and lug nut covers installed on the chassis to provide a finished appearance.  
Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

RIM HUB COVERS: There shall be stainless steel center hub and lug nut covers installed on the chassis to provide a finished appearance.  
Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_  
CHASSIS: INTERIOR ITEMS

CAB AIR CONDITIONING: The cab shall be equipped with Freightliner's DATA book Code No 700-002 cab air conditioning, defrost and heater. The HVAC control panel shall be centrally mounted on the dash so that the driver or passenger can reach the controls.  
Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

CAB INTERIOR COLOR: The cab interior shall be OPAL GRAY vinyl.  
Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

CAB DOOR LOCKS: The cab door latches shall meet or exceed FMVS. 206 for personnel entry doors. The actuation handles shall feature power door locks. A momentary lock/unlock switch shall be installed in the chassis cab. Each switch shall lock or unlock both cab doors unless additional module doors are specified to be wired together. Both driver and passenger side doors shall be keyed the same.  
Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

OEM GAUGES: The following gauges shall be included and installed by the OEM:

SPEEDOMETER: This instrument shall indicate vehicle speed in Miles per Hour.

TACHOMETER: This instrument shall indicate engine speed in Revolutions per minute (RPM). This instrument shall run up to a minimum of 3000 RPM.

ODOMETER: This instrument shall indicate the distance the vehicle traveled in it's lifetime in miles.

TRIP ODOMETER: This resettable odometer shall indicate miles traveled on a given trip.

FUEL LEVEL GAUGE: This instrument shall indicate the amount of fuel remaining in the fuel tank in fractional units of one full tank.

OIL PRESSURE GAUGE: This instrument shall indicate Engine OIL PRESSURE in pounds per square inch (PSI).

AIR PRESSURE GAUGE: This instrument shall indicate the air pressure, supplied by the engine driven air compressor, inside the compressed air tank. The pressure shall be indicated in pounds per square inch.

TRANSMISSION TEMPERATURE GAUGE: This instrument shall indicate the temperature of the automatic transmission fluid in degrees Fahrenheit. The temperature shall be taken from the fluid leaving the transmission, prior to entering any cooler.

VOLT METER: This instrument shall indicate OEM electrical system voltage.

HOUR METER: This chassis shall display the engine hours meter and trip hours meters within the integral drivers display panel. The engine hours meter shall display the total number of hours the engine has run in it's lifetime.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

CAB STEREO: An OEM AM/FMWB/CD radio shall be included in the OEM overhead console. with a single CD player and Weather band.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

CAB SEATS: Bostrom Talladega model T905, high back, heavy duty vinyl covered bucket type seats shall be provided in the cab. The seats shall adjust forward and aft as well as recline. A mechanical lumber support shall be built into the back rest of each seat.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

ARM RESTS: The driver seat shall have arm rests on both sides of the seat. The passenger's seat shall have an arm rest on the inboard (left) side of the seat.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

CAB SEAT BELTS: The driver and passenger seat shall have OEM 3-point seat belts. The belts shall meet

FMVS. 209 and 210. The seat belts shall simultaneously restrain the occupant's waist and their outer shoulder. The entire harness shall couple with one quick attach buckle located on the inboard side of the seat at waist level. The lap belt attachment points shall be connected to the seat base frame and the seat base frame shall be tethered to the cab floor with the same seat belt webbing as the webbing used on the main harness. The tethers shall not restrict the air ride seat base movement.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

CAB SEAT BASES: Each seat base shall be suspended on a rubber air bag to enhance driver and passenger ride quality. The air pressure shall be infinitely adjustable via a mechanical valve. The air supply shall be the OEM engine driven compressed air system.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

STEERING WHEEL: The steering wheel shall be mounted on a tilt and telescoping adjustable steering column supplied and installed by the OEM.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

CAB INTERIOR: The cab interior shall be OEM gray.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

CAB WINDOWS: The cab windows shall operate by way of a switch on the cab interior doors. The driver's door shall have two (2), one (1) for each window and the passenger door shall have one (1) switch just for its door. They shall be electrically operated at each door with an OEM motor installed by the chassis manufacturer.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

WINDSHIELD WIPERS: The cab windshield wipers shall be electric and supplied by the chassis manufacturer. They shall include an intermittent setting all on the OEM control.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

TIRE VALVE EXTENDERS: One pair of tire valve extenders shall supplied and installed for each inside rear wheel. The tire valve extenders shall permit the user to check tire pressure and fill the inside rear tires without removing the outer tire. The extenders shall have a braided stainless steel outer jacket to resist abrasions and cuts. The filler end shall be supported by a valve bracket.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

## MODULE CONSTRUCTION - GENERAL

**SERVICE INTENT:** The ambulance body shall be all aluminum. The body sheet shall be reinforced with structural members designed to resist deflection and hold up to extreme ambulance service per the latest revision of federal specification KKK-A-1822F.

**BODY MEMBER ALLOY:** The side, front and rear sheet shall be derived from .125", 5052-H32 aluminum sheet. The roof sheet shall be one (1) piece, .090", from roof rail to roof rail. The side structure and structural shapes shall be extruded of 6105-T6 aluminum.

**STRUCTURAL INTEGRITY:** The body shall be capable of providing impact, deformation and penetration resistance in the event of a collision. The body structure shall be capable of passing a standalone static load test on a type-tested body. The test shall be conducted in accordance to AMD-001 **except the test weight shall be a minimum of 55,000 pounds**. The same unit shall be subjected to the same test with the body turned on its side. A complete copy of the testing documents with photos must be supplied upon bid review if requested by this agency. Non-compliant bids will be rejected.

**WELD QUALITY:** All welds within the modular body shall meet American Welding Society codes for structural and sheet welding.

**CREVICE PREPARATION:** All skin and extrusion surfaces destined to be mated together, shall be primed with epoxy, etching primer prior to assembly. All overlapping extrusion to skin surfaces shall be bedded with a two-part acrylic high strength bonding adhesive.

**SIDE STRUCTURAL MEMBERS:** The sheet edges will be fit into slots designed within a proprietary, double hollow, corner post extrusion in addition to the two-part acrylic bonding agent. The sheet will be MIG welded and structurally bonded to the extrusion. Double-hollow designed corner post extrusions shall be used to weld side and end assemblies together.

Horizontally oriented, adjoining structural box tubes shall be welded to the corner post with a minimum 50% surface weld. The intermediate structural members of the side grid shall be two by two inch 6105-T6 aluminum, architectural box tubing. All entry and compartment door adjacent members shall be one quarter inch, two by two-inch proprietary extruded shape. The main structure shall surround the compartment openings and provide intermediate skin support. The intermediate structure spacing shall have a nominal dimension of twelve inches. All grid structure shall be welded together with a minimum of 75% of available mating surface. The side



skin shall be bonded to the structural grid using 1.75 inch-wide, VHB (Very High Bond) adhesive tape. The edges of the tube that touch the skin will be sealed with Bostik Brand, Simson ISR 70-03 Construction Adhesive.

**SIDE IMPACT RAILS:** There shall be four side impact rails, located in the upper and lower sections of the side walls. They shall consist of 6105-T6 aluminum, that is a solid one-half inch thick by four-inch plate on the curbside and one-half by four inch plates on the streetside that are continuously MIG welded or Huck structurally fastened to the structural grid. Since this is a safety item, no exceptions will be accepted.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

**SEAT BELT ANCHORAGE:** Occupant seat belts shall be drilled and tapped through one-half by four inch plate on the curbside and one-half by four-inch plates on the streetside that are continuously MIG welded to the structural grid. Since this is a safety item, no exceptions will be accepted.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

**SIDE SHEET:** The side sheet shall be .125 thick, 5052-H32 aluminum. The side sheet compartment opening cut outs shall be cut with CNC controlled, gantry mounted plasma or high-speed routing equipment. The door opening shall be cut to allow for the skin to be molded into the jamb opening to create a crevice free jamb with a smooth paint finish. The machine formed skin shall return into the

body at least 3/4" to meet the jamb extrusion. This method will encourage square openings to receive the door assemblies and maintain critical structural locations. The door jamb shall have a full structure frame behind the jamb skin return. It shall not rely strictly on the skin for the compartment jamb. Pre-determined ventilation louvers shall be *formed* into the body sheet, where specified. Bodies that do not incorporate formed louvers have the potential for additional corrosion points and are not preferred by this agency.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

**SEAMLESS DOOR JAMBS:** The door jambs of the module shall be seamless. A seamless door jamb exterior is required to minimize corrosion. Extruded type exposed door jambs do not meet this specification. The skin shall completely conceal the door-jamb from view. The only visible seams on the body sheet shall be at the corner posts. The skin shall extend .688 inch below the skirt rail extrusion to a drip edge to keep moisture from collecting underneath where the skin meets the skirt rail extrusion.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

**CORNER POST EXTRUSION:** The corners of the modular body shall be made from an extruded aluminum structure that has an alloy of 6105-T6. The corner post extrusion shall be 3.25 x 3.25-inch with a 2-inch- radius on the outer corner. The corner post extrusion shall have an internal web member that runs on a 45-degree angle to the front and side of the modular body. Where the internal web meets the exterior extrusion wall the internal web shall flair into a .125-inch radius giving a .25-inch wall thickness at the exterior wall of the extrusion. There shall be a .75-inch flange on each side of the

corner post extrusion that is a side skin receiver. The side skin receiver shall be funnel shaped to allow the exterior side skin to fully seat into the corner post extrusion. The interior walls of the corner post

extrusion shall be .125-inch thick, and they shall incorporate a 45-degree weld bevel on the interior corners.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

REAR SILL EXTRUSIONS: The rear body and floor substructure shall be constructed of a dual proprietary aluminum extrusion with mating joints. The lower floor extrusion is a combination continuous extrusion with an incorporated L mating surface. The lower door extrusion is a multi-chamber construction with matching radius corner and surfaces to the floor sill. This combination of extrusion and joint structure provides for strong joint strengths, and continuous contact surface between the floor sill and the outer-body door extrusion.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

FRONT AND SIDE WALL GUSSET PLATES: The front wall and side wall structural members shall have additional support with a fully welded gusset system that shall be made of 5052-H32 aluminum plate, .25-inch-thick by four by four-inch.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

REAR AND SIDE WALL GUSSET PLATES: The rear wall and side wall structural members shall have additional support with a fully welded gusset system that shall be made of 5052-H32 aluminum plate, one quarter inch thick by four by four inch.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

ROOF RAIL EXTRUSIONS: The roof corners of the modular body shall be made from an extruded aluminum structure that has an alloy of 6105-T6. The roof rail extrusion shall be 4.55 x 3.5 inch with a 2-inch radius on the outer corner. A full-length drip rail shall be incorporated into the roof rail corner post extrusion, drip rails at the top of the modular body that are not inclusive of the roof rail extrusion do not meet the intent of the specification and are deemed non-compliant to this specification. The roof rail extrusion shall have an internal web member that runs on a 45-degree angle to the front and side of the modular body. Where the internal web meets the exterior extrusion wall the internal web shall flair into a .125-inch radius giving a .25-inch wall thickness at the exterior wall of the extrusion. There shall be a .75-inch-flange on the lower side of the roof rail extrusion that is a side skin receiver. The side skin receiver shall be funnel shaped to allow the exterior side skin to fully seat into the roof rail extrusion. There shall be a .75 x .125-inch recess into the roof side of the extrusion for locating the roof sheeting. This recess shall have a 45-degree weld bevel. The interior wall of the roof rail extrusion that is in-board of the side skin funnel shall be 2-inch-wide so that they line up with the exterior side wall. The interior wall of the roof rail extrusion that is in-board of the roof sheeting recess shall be 2.25-inch-wide so that they line up with the 2.25-inch roof bows. The interior walls of the roof rail extrusion shall be .125-inch-thick, and they shall incorporate a 45-degree weld bevel on the interior corners.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

ROOF SHEET: The four (4) edges of the sheet shall be continuously welded to the roof rail extrusion to prevent leaks. All perimeter welds shall be ground smooth and worked smooth prior to the overall body paint and finish. Non-fully welded roof sheets to the roof rail extrusions do not meet the intent of this specification and are deemed non-compliance to this specification.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

ROOF BOWS: The roof sheet shall be supported by full width .125-inch-thick x 2 x 2.25-inch architectural box tubing. The roof bows shall be located on twelve-inch centers. The roof bows shall be MIG welded to the roof rail extrusions with no less than four and one-half inches of continuous weld per end. The roof sheet shall be bonded to the roof bows with VHB (Very High Bond) adhesive tape.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

LATERAL ROOF SUPPORTS: If this agency requires ducted ceiling HVAC, additional structural support will be added as a result of the 2 inch ducted heat and A/C delivery system .2 x 2-inch three-sided extruded channel with two sides being .125-inch-thick and the bottom surface for fastener acceptance to be .160-inch shall be full length of the body.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

ROOF CORNERS: The roof rail extrusions shall be welded together along the roof bow mating walls at the corners. In addition, the outer surfaces of the roof rail extrusions shall be 100% continuously TIG welded to cast aluminum corner castings. The castings shall have internal mating flanges that extend horizontally inside the upper roof rail extrusion and vertically down the corner post extrusions. The corner roof castings shall have accommodations for number six nylon inserts to retain corner cap marker combination warning lights when they are specified. The nylon inserts shall provide isolation of the retaining screw of the light from the casting materials.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

FLOOR MEMBERS: Floor structures shall be 6105-T6 aluminum, 2.000 by 2.500-inch proprietary hollow section architectural box tubing aluminum. This proprietary shape tubing allows for half-inch plate to be recess to which floor mounted items can be securely connected. Each member shall have a defined bevel built into the extrusion die to allow for full weld penetration on the edge of the extrusions.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

FLOOR HORIZONTAL GUSSET PLATES: The floor member to side wall fully welded horizontal gusset system shall be made of 5052-H32 aluminum plate, four (4) by four (4) inch triangles. A minimum of 12 gussets shall be located horizontally connecting cross members to longitudinal main center members at each main cross member site.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

**FULL WIDTH CROSS MEMBERS:** The module floor shall provide core support for the side assemblies and shall incorporate a minimum of four (4) full body width floor members. The full width floor members shall connect to and support the side wall assemblies. Each member shall be made of 6105-T6 aluminum. The front floor tube is to be a minimum of 3.000 x 2.000 x .250 inch-thick 6105-T6 aluminum tube which is fully MIG welded into the front corner post at each side of the vehicle. On top of the tube is to be a minimum .188 thick 5052 aluminum front sill running full width of the body. One of the members located just forward and/or rear of the rear wheel housing shall be 2.000 by 2.500-inch proprietary hollow section architectural box tubing. The last floor cross-member shall be a 2.375 x 3.188 6105-T6 aluminum proprietary shape proof tube on the rear wall which is fully MIG welded into the rear corner posts at each side of the vehicle. This tube is butted up and welded to a 2.000 x 1.000 x .125 inch-thick 6105-T6 tube which is also fully MIG welded to the rear corner post. A minimum of eight (8) total 6-inch vertical gussets, (1/4) inch thick will be installed to reinforce two (2) at each cross member and sidewall tubes directly fore and aft of the axle.

Bidder Complies YES\_\_\_\_\_ NO\_\_\_\_\_

**FLOOR SYSTEM CANTILEVER BEAMS:** There shall be cantilever floor beams used at intermittent body points running from the opposite main interior wall beam to the opposite exterior wall at the location between exterior compartments. The use of cantilever beams increases the strength of the overall floor system and support to the compartments.

Bidder Complies YES\_\_\_\_\_ NO\_\_\_\_\_

**WHEELWELLS:** There shall be formed wheel well housings installed into the module body to provide sufficient clearance for the rear axle movement based on the chassis jounce study and suspension choice selected. The wheel well shall be formed of smooth aluminum and secured to the floor tube structure system. The wheel well shape shall be multi-angular with vertical riser and flat top to provide the most efficient use of space inside of the module, while providing the required jounce clearance underneath for the chassis tire movement. Wheel wells that are radius shaped are not acceptable to this agency, as they are unnecessarily tall and inefficient in space usage.

Bidder Complies YES\_\_\_\_\_ NO\_\_\_\_\_

**WATER TIGHT PATIENT CABIN:** The sub floor shall be shielded from moisture. An aluminum sub sheet shall be sealed to the floor structure with silicone sealant. Additional aluminum plates shall be intermittent welded between compartments, wheel well liners, step wells and fuel filler housings. All of the areas shall be thoroughly sealed from one to the other, creating a sealed patient cabin from the outside. Extrusion hollows shall be filled with expandable foam sealant to prevent fumes and moisture from entering.

Bidder Complies YES\_\_\_\_\_ NO\_\_\_\_\_

## **DOOR CONSTRUCTION**

DOOR SKIN: No welded seams are allowed, only one piece formed corners. The door skin shall be .090 inch-thick, 5052-H32 aluminum sheet formed on all four sides utilizing an ACF Multi-flex Corner Former Model MF 25 to create a crevice free surface for best paint adhesion and corrosion resistance. The formed edges shall not have elongation cracks due to forming and shall maintain material thickness uniformly over the entire sheet. The formed edges uniformly round off seamless for better paint adhesion and aesthetic appeal that does not require cutting and welding in the corners.

Bidder Complies YES\_\_\_\_\_ NO\_\_\_\_\_

DOOR FRAMING: The door frame shall reinforce the perimeter of the skin pan. The extrusion shall incorporate a T-slot to receive an extruded, hollow, dual durometer closed cell UV protected TPV gaskets with relief holes for even compression for a proper and complete seal from the door to the door jamb. The gasket corners shall be welded without using adhesives for bonding. The door frame extrusion shall also add torsion resistance to the door assembly. The door jamb extrusion and frame

extrusion shall be cut 45 degree on each corner. Each of the four corners shall incorporate a key way and spline that is designed to drive into each corner and maintain a perfect 90-degree angle prior to welding. The door castings shall include gusset plates for additional support for the door construction. The door frame shall also incorporate a clearance way for UNF threaded blind fasteners for the door panels. The door panel shall not rest on the body of the blind fasteners.

Bidder Complies YES\_\_\_\_\_ NO\_\_\_\_\_

FINAL DOOR ASSEMBLY: The door skin shall be bonded to the frame assembly with an adhesive sealant in addition to intermittent welding. For entry doors additional horizontal structure shall be added to maintain door skin flatness as well as penetration resistance in the event of a collision. The horizontal members are extruded J-channel, 0.150 inch-thick. A minimum of two horizontal members shall be welded in. A vertically oriented 0.150 inch-thick formed hat-channel shall be welded to the webs of both horizontal channels for additional buckling resistance. Compartment doors shall have a reinforcement system of horizontal or horizontal/vertical structure added to maintain skin flatness and impact resistance.

ENTRY DOOR WINDOW(S) OPENINGS: The entry door(s) shall incorporate recessed areas that are stamped into the outer door skin to allow for a flush window appearance and shall not protrude with a lip on the outer door skin of the modular body.

DOOR PANELS: The inside entry door panels shall be made of .080 inch-thick aluminum plate and shall be finished per these specifications later in this document. The center panel shall be removable for easy lock service/lubrication. The inside of the compartment door panels shall be made of .080 inch-thick polished aluminum diamond plate. The edges of the door panel shall be recessed into the door frame extrusion. The panels shall be fastened to the door frame with stainless steel, #10-32 UNF machine screws threaded into aircraft quality blind fasteners. Each fastener shall have an internal tooth lock washer to preclude loosening.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

DOOR JAMB: The door jamb shall accommodate rigid fastening of compartment door hinges. The jamb shall include a hollow cell that shall conceal wiring for the non-mechanical door switch. The door jamb frame shall be cut 45 degree on each corner from the door edge corner, each of the four corners shall consist of a key way and spline that is designed to drive into each corner and maintain a perfect 90-degree angle prior to welding. Additionally, the jamb shall be continuously MIG welded on the inside and the outside corners. *A seamless door jamb exterior is required to minimize corrosion - extruded type door jambs do not meet this specification. The skin shall completely conceal the door-jamb from view. "No Exterior Door Extrusions Allowed".*

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

HINGE: All doors shall have stainless steel, continuous, piano hinge. The pin diameter shall be .250 and staked into place to prevent drifting out of the hinge leaf. The knuckle lengths shall be one inch.

DOOR HINGE BOLTS: The hinge attachment bolts shall be one quarter inch diameter by one inch long stainless-steel type TT (Thread Rolling Screws) hex head bolts with SermaGard protective coatings. Each bolt shall be treated with the aluminum filled basecoat/resin-bonded fluoropolymer topcoat system. The SermaGard 1105/1280 protective coated bolt system is designed to provide outstanding salt and dissimilar metal corrosion protection versus bolts treated with pastes and liquids. The SermaGard coating provides UV weathering resistance while protecting the aluminum tube structures and stainless-steel hinges from dissimilar metal contacts. The SermaGard provides a sacrificial corrosion protection. Body manufacturers that do not use bolts treated with SermaGard 1105/1280 are providing substandard protection from corrosion and are not acceptable. Thread cutting screws to attach exterior compartment doors or hinges to the body are not acceptable.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

LATCHES: The latches shall meet FMVSS 206. All latches shall be two-stage, rotary- type. The latches shall be through bolted to the door frame extrusion. All entry doors shall have two rotary latches per door. To assure uniform latch timing and functional door reliability, only straight, one-quarter (1/4) inch diameter rods shall connect the latches to the handle. All double hung compartment doors shall have two rotary latches per door.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

## MOUNTING

MOUNTING SYSTEM: The outside dimension, across the frame rails on this chassis is thirty four (34) inches. Twelve (12), one quarter (1/4) inch thick steel out riggers, designed specifically to through bolt to the frame rail web, shall be supplied and installed. Each out rigger shall be through bolted to the frame utilizing three (3),

five eighths (5/8) inch diameter, UNC, grade eight, Flanged Hex head bolts and corresponding grade eight, flanged, locking hex nut. Each out rigger shall incorporate a dual silicone vibration isolator system and support for the body's mounting sill. The system shall consist of a top locking nut, the one inch aluminum flat bar, an upper stainless steel bushing, a pre-loaded silicone upper vibration isolator, the steel outrigger, then a lower pre-loaded silicone isolator, a stainless lower washer and finally the bolt head that passes through the assembly. The flanged outer edge outriggers shall not protrude more than four (4) and three-eighths (3/8) inches measuring from the frame's web to the outer tip of the out rigger deck. All mounting sills shall be made of one inch thick by three inch wide solid aluminum flat bar. A grade eight half-inch diameter by four inch long hex-head bolt shall be used to bolt the sill down at each isolator site. The lower silicone isolator shall be 22% less in firmness than the upper isolator to provide a dynamic separation of road vibration from the chassis frame into the modular body. Body mounting systems using only a single mounting isolator shall not be acceptable as they provide inferior mounting vibration isolation.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

#### MODULE CONFIGURATION

OVER ALL LENGTH: The over all length of the vehicle shall not exceed twenty three (23) feet, nine (9) inches. The departure angle and length shall meet or exceed the current revision of Federal Specification KKK-A-1822.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

MODULE LENGTH: The module length shall be at least one hundred seventy two (172) inches. Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

MODULE WIDTH: The module width shall comply with the current revision of Federal Specification KKK-A-1822. The module shall be ninety five (95) inches wide, excluding lights and accessories.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

MODULE HEAD ROOM: The module shall not be less than seventy two (72) inches actual measured headroom. The measurement shall be taken from the patient compartment floor to the ceiling panels.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

MODULE EXTERIOR HINGES: There shall be installed stainless steel hinges with standard mill finish for all exterior compartments and entry doors on the module. These hinges shall features slots for mounting and adjustment of the doors. The finished module paint and special mounting mounting bolts with Serpa coatings shall assist in deterring the stainless steel hinges from dissimilar metal corrosion.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

#### COMPARTMENT CONSTRUCTION

MATERIALS: Unless specified otherwise, all exterior compartment walls and backs shall be constructed of .100 polished aluminum diamond plate. All compartment floors shall be formed of .125 aluminum sheet. Compartments for generators, oxygen, and backboards will have .250 compartment floors. All compartment ceilings shall be formed of .090 aluminum sheet. The ceilings and floors shall form around the sides and back to provide an overlapping joint. The floor and ceiling surfaces shall be double action (DA) sanded to 180 grit. The floors and ceilings are bonded to the walls and back and intermittent welded on six (6) inch centers.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

DRAIN HOLES: Drain holes shall be provided on the bottom of the compartments. Each hole shall be baffled to prevent splash water from entering the compartment.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT FLOOR CONFIGURATION: This compartment floor shall be a sweep out type floor. The compartment floor shall be flush with the lower door jamb to facilitate compartment floor cleaning. The edge of the compartment floor shall be continuously welded to the lower door jamb. Heat generated from welding shall not distort the straightness or flatness of the jamb or compartment floor. The weld quality must be aesthetically uniform.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT FLOOR THICKNESS: The compartment floor shall be .125 inch thick aluminum of single layer.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

VENTILATION: There shall be a hole in the compartment below floor line approximately 5-3/8" wide x 2-9/32" tall that will accept a specially designed baffled vent. The baffles shall have a stainless steel spring that allow for only one way operation. They allow air to escape out of the compartment when the door is closed, but not for air to come back into the compartment to keep dirt and dust out of the compartment interior. Engineering shall determine the amount of these vents required by the volume of space in the compartment.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

TALK THROUGH CAB TO MODULE WINDOW: A 14" inch high by 19" inch wide access from the module to the cab shall be provided. The cab shall NOT be rigidly fastened to the modular body. A flexible, Accordion shaped, closed cell rubber bellows, custom made for the opening shall be provided to tie the cab to the module. One joint in the bellows is acceptable and shall be located on the bottom of the opening. The joint shall be completely vulcanized. The window provided shall meet or exceed current Federal specification KKK-A-1822.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_



CAB ROOF SUPPORT: There shall be a 3/16" thick by 3" wide extending from driver's side to passenger side on the underside of the cab roof above the headliner to prevent any oil canning noise that might be caused by wind against the front body wall and the cab roof.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

BODY DROP: The Curbside of the modular body ahead of the rear wheels skirt shall be 6" lower than the streetside and behind the rear wheels. This body drop will allow the curbside entry step to be lower to ground level making it easier to enter the curbside entry door and meet the requirement of KKK-A-1822 latest revision.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

CURBSIDE ACCESS DOOR: The curbside side access door shall be at least 82.812" high by 31" wide measured at the door jamb opening.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

JAMB PROTECTION: At the curbside side, module entry door, a full width, formed, stainless steel jamb protection plate shall be provided to prevent heavy traffic from chipping the paint.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

DOOR CHECK: The compartment door(s) in excess of 13" pass through width shall be equipped with a door check (hold open) device. All vertically hinged doors in excess of 13" pass through width shall have a gas operated bi-directional spring shock door check. Door check brackets shall be drilled and tapped through a minimum of 3/8" material to preclude coming loose.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

DOOR SWING: The compartment door checks shall be installed to allow the door to open ninety to 100 degrees (90 up to 100) from the fully closed position.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

STEP WELL: A two-step diamond plate step well shall be provided at the curb side access door. Each step tread dimension shall not be less than 10 inches. Both steps in the step well shall be illuminated, per current Federal Specification KKK-A-1822.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

STEP WELL ILLUMINATION: A 3" clear interior light shall illuminate the curbside step well per the current revision of Federal specification KKK-A-1822.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

LEFT FRONT COMPARTMENT (M-1): This compartment shall be located in the left front corner of the modular body. The minimum compartment dimensions shall be 84.5" High x 18.8" Wide x 20.5" deep.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

SPLASH GUARD: A deflector plate shall be welded between the left front and left front middle compartments. The shield shall be specifically designed to shield water splash from the compartment vents.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

#### COMPARTMENT CONSTRUCTION

**MATERIALS:** Unless specified otherwise, all exterior compartment walls and backs shall be constructed of .100 polished aluminum diamond plate. All compartment floors shall be formed of .125 aluminum sheet. Compartments for generators, oxygen, and backboards will have .250 compartment floors. All compartment ceilings shall be formed of .090 aluminum sheet. The ceilings and floors shall form around the sides and back to provide an overlapping joint. The floor and ceiling surfaces shall be double action (DA) sanded to 180 grit. The floors and ceilings are bonded to the walls and back and intermittent welded on six (6) inch centers.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

**DRAIN HOLES:** Drain holes shall be provided on the bottom of the compartments. Each hole shall be baffled to prevent splash water from entering the compartment.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

**COMPARTMENT DOOR PANEL:** The inside door panel of this compartment shall be diamond plate.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

**COMPARTMENT FINISH:** Unless specified otherwise, all exterior compartment walls and backs shall be constructed of .100 polished aluminum diamond plate.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

**VENTILATION:** There shall be three sets of six louver punches on the outside and inside door panel to properly ventilate the electrical components located in the above mentioned compartment.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

**COMPARTMENT FLOOR CONFIGURATION:** This compartment floor shall be a sweep out type floor. The compartment floor shall be flush with the lower door jamb to facilitate compartment floor cleaning. The edge of the compartment floor shall be continuously welded to the lower door jamb. Heat generated from welding shall not distort the straightness or flatness of the jamb or compartment floor. The weld quality must be aesthetically uniform.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

**COMPARTMENT FLOOR THICKNESS:** The compartment floor shall be .25 inch thick aluminum of single layer.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT DOOR: A single, forward hinged, compartment door shall be set for this compartment. The door shall have a single handle and two rotary latches.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

DOOR CHECK: The compartment door(s) in excess of 13" pass through width shall be equipped with a door check (hold open) device. All vertically hinged doors in excess of 13" pass through width shall have a gas operated bi-directional spring shock door check. Door check brackets shall be drilled and tapped through a minimum of 3/8" material to preclude coming loose.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

DOOR SWING: The compartment door checks shall be installed to allow the door to open ninety to 100 degrees (90 up to 100) from the fully closed position.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT LIGHT: One (1) Vista Brand 12V powered White LED 3/8 inch flat top Rope light, Model #FSW1F, shall be mounted in the compartment, per customer specified location.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT BACK WALL BUILD OUT: The back wall of the compartment shall be built to reduce the depth of the compartment to 14" deep.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

LEFT FRONT MIDDLE COMPARTMENT (M-2): This compartment is located adjacent and rearward to the left front compartment. The minimum compartment dimensions shall be 36.75" High x 44.8" Wide x 20.5" Deep.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

#### COMPARTMENT CONSTRUCTION

MATERIALS: Unless specified otherwise, all exterior compartment walls and backs shall be constructed of .100 polished aluminum diamond plate. All compartment floors shall be formed of .125 aluminum sheet. Compartments for generators, oxygen, and backboards will have .250 compartment floors. All compartment ceilings shall be formed of .090 aluminum sheet. The ceilings and floors shall form around the sides and back to provide an overlapping joint. The floor and ceiling surfaces shall be double action (DA) sanded to 180 grit. The floors and ceilings are bonded to the walls and back and intermittent welded on six (6) inch centers.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

DRAIN HOLES: Drain holes shall be provided on the bottom of the compartments. Each hole shall be baffled to prevent splash water from entering the compartment.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT DOOR PANEL: The inside door panel of this compartment shall be diamond plate.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT FINISH: Unless specified otherwise, all exterior compartment walls and backs shall be constructed of .100 polished aluminum diamond plate.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

VENTILATION: There shall be three sets of six louver punches on the outside and inside door panel to properly ventilate the electrical components located in the above mentioned compartment.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT FLOOR THICKNESS: The compartment floor shall be .25 inch thick aluminum of single layer.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT FLOOR CONFIGURATION: This compartment floor shall be a sweep out type floor. The compartment floor shall be flush with the lower door jamb to facilitate compartment floor cleaning. The edge of the compartment floor shall be continuously welded to the lower door jamb. Heat generated from welding shall not distort the straightness or flatness of the jamb or compartment floor. The weld quality must be aesthetically uniform.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT DOORS: A set of double hinged compartment doors shall be set for this compartment. Each door shall have a single handle and two rotary latches.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

DOOR CHECK: The compartment door(s) in excess of 13" pass through width shall be equipped with a door check (hold open) device. All vertically hinged doors in excess of 13" pass through width shall have a gas

operated bi-directional spring shock door check. Door check brackets shall be drilled and tapped through a minimum of 3/8" material to preclude coming loose.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

DOOR SWING: The compartment door checks shall be installed to allow the door to open ninety to 100 degrees (90 up to 100) from the fully closed position.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

ADJUSTABLE SHELF: A standard duty aluminum adjustable shelf shall be provided. The shelf shall be formed of .125 (1/8") thick aluminum, with 2 inch upward turned lips on all four sides. The shelf shall be mounted on Unistrut infinitely adjustable, aluminum extruded, heavy duty shelf track. Incrementally adjustable, non-aluminum shelf track is not acceptable.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

SHELF BRACKET: Each above exterior adjustable shelf shall include four (4) self gusseted .157" thick shelf brackets that will allow for easy adjustment up and down for each shelf. Each bracket shall be secured to the shelf by carriage head bolts on the top of the shelf and hex head bolts to secure them to the shelf tracking material in the compartments. This will guard against shelf deformation in the compartments when the shelves are secured in place.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT LIGHT: One (1) Vista Brand 12V powered White LED 3/8 inch flat top Rope light, Model #FSW1F, shall be mounted in the compartment, per customer specified location.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

AUXILIARY CONDENSER: The module HVAC system shall employ a separate condenser for enhancement of the patient environmental cooling system. The condenser shall be through bolted to brackets that are bolted

to the bottom of the M-2 compartment. Two electric cooling fans shall be mounted to the core assembly and move air thru the double stacked condenser coils making for a compact unit. The condenser fans shall come on when either the cab or the patient cabin A/C unit is turned on. Fan blades shall be protected by a high impact resistant grille work that is molded into the fan body. All fan wiring shall be routed, secured and protected from road hazards. The condenser body shall not fall within the

vehicles maximum ramp break over angle. The condenser shall have minimum ratings of 67,000 BTU/hr with 1,200 cfm with a maximum amp draw of 11.5 amps.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

CONDUIT No 1: An empty one and one half inch diameter conduit expressly designed to add wires after vehicle delivery by the end user or his/her authorized agent shall be supplied and installed. The conduit shall have semi-rigid, non conductive liner that is free of inside ridges that can bind on the wire harness being pulled through the conduit. The outer jacket shall be a non-conductive, spiraled rigid coil designed to maintain the original shape of the liner, throughout the length of the conduit run.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

ORIGINATION POINT: The aforementioned conduit shall originate in the left front middle (M-2), exterior compartment.

TERMINATION POINT: The aforementioned conduit shall terminate in the patient cabin behind the main action area control panel.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

LEFT REAR COMPARTMENT (M-3): This compartment shall be located in the left rear corner of the body. The minimum compartment dimensions shall be 63 1/2" High x 43 7/64" Wide x 20 1/2" deep.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

#### COMPARTMENT CONSTRUCTION

MATERIALS: Unless specified otherwise, all exterior compartment walls and backs shall be constructed of .100 polished aluminum diamond plate. All compartment floors shall be formed of .125 aluminum sheet. Compartments for generators, oxygen, and backboards will have .250 compartment floors. All compartment ceilings shall be formed of .090 aluminum sheet. The ceilings and floors shall form around the sides and back

to provide an overlapping joint. The floor and ceiling surfaces shall be double action (DA) sanded to 180 grit. The floors and ceilings are bonded to the walls and back and intermittent welded on six (6) inch centers.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

DRAIN HOLES: Drain holes shall be provided on the bottom of the compartments. Each hole shall be baffled to prevent splash water from entering the compartment.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT DOOR PANEL: The inside door panel of this compartment shall be diamond plate.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT FINISH: Unless specified otherwise, all exterior compartment walls and backs shall be constructed of .100 polished aluminum diamond plate.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

CEILING VENTILATION: Specified compartments shall have a hat channel at the ceiling level. The hat channel shall run to no closer than 1" from the compartment side walls to allow for air exchange. Hidden from view, shall be two to three, (4") holes above the hat channel to exhaust the compartment air when the door is closed to allow it to close with minimal effort.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

VENTILATION: There shall be three sets of six louver punches on the outside and inside door panel to properly ventilate the electrical components located in the above mentioned compartment.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT FLOOR CONFIGURATION: This compartment floor shall be a sweep out type floor. The compartment floor shall be flush with the lower door jamb to facilitate

compartment floor cleaning. The edge of the compartment floor shall be continuously welded to the lower door jamb. Heat generated from welding shall not distort the straightness or flatness of the jamb or compartment floor. The weld quality must be aesthetically uniform.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT FLOOR THICKNESS: The compartment floor shall be .125 inch thick aluminum of single layer.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT DOORS OPTION: A set of double hinged compartment doors shall be set for this special request compartment. Each door shall have a single handle and two rotary latches. Doors shall comply with aforementioned construction techniques.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

DOOR CHECK: The compartment door(s) in excess of 13" pass through width shall be equipped with a door check (hold open) device. All vertically hinged doors in excess of 13" pass through width shall have a gas operated bi-directional spring shock door check. Door check brackets shall be drilled and tapped through a minimum of 3/8" material to preclude coming loose.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

DOOR SWING: The compartment door checks shall be installed to allow the door to open ninety to 100 degrees (90 up to 100) from the fully closed position.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

ADJUSTABLE SHELVES: Three (3) standard duty aluminum adjustable shelves shall be provided. The shelves shall be formed of .125 (1/8") thick aluminum, with 2 inch upward turned lips on all four sides of each shelf. The shelves shall be mounted on Unistrut infinitely adjustable, aluminum extruded, heavy duty shelf track. Incrementally adjustable, non-aluminum shelf track is not acceptable.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

SHELF BRACKET: Each above exterior adjustable shelf shall include four (4) self gusseted .157" thick shelf brackets that will allow for easy adjustment up and down for each shelf. Each bracket shall be secured to the shelf by carriage head bolts on the top of the shelf and hex head bolts to secure them to the shelf tracking material in the compartments. This will guard against shelf deformation in the compartments when the shelves are secured in place.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT LIGHT: One (1) Vista Brand 12V powered White LED 3/8 inch flat top Rope light, Model #FSW1, shall be mounted in the compartment, per customer specified location.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

RIGHT REAR COMPARTMENT (M-5): This compartment shall be located in the right rear corner of the body. The minimum compartment dimensions shall be 84 1/2" High x 23 5/16" Wide x 21" Deep.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

SPECIAL COMPARTMENT CONSTRUCTION (M-5): The aforementioned compartment shall be made of the following materials:

MATERIALS: All exterior compartment walls and back shall be constructed .125 aluminum sheet. The aluminum alloy, for all compartment parts shall be 5052-H32. All compartment floors shall be formed from .125 aluminum sheet. All compartment ceilings shall be formed from .090 aluminum sheet. The ceilings and floors shall form around the sides and back to provide an overlapping joint. All interior surfaces shall be double action (DA) sanded to 180 grit. The floors and ceilings are bonded to the walls and back and intermittent welded on six (6) inch centers. Continuous welds around the compartment seams are not acceptable due to cracking, in time, located just outside the welded heat effected zone

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

VENTILATION: All compartments, made from aluminum sheet, shall have at least eight louvers of ventilation to the outside. Oxygen cylinder compartments shall be louvered through the door with at least 9 square inches of free-vented area.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

DRAIN HOLES: Drain holes shall be provided on the bottom of the compartments. Each hole shall be baffled to prevent splash water from entering the compartment.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT DOOR PANEL: The inside door panel of this compartment shall be diamond plate.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT INTERIOR FINISH: The M-5 compartment is a high use stowage area that will require a high strength, abrasion and chemical resistant finish. This compartment shall have a BLACK colored, high build polyurethane coating with a minimum thickness of 60 mils. The coating shall be a spray-on, abrasion resistant, textured coating that can withstand a harsh working environment without peeling, chipping or discoloring. The surfaces for the coating shall be mechanically and chemically prepared for maximum adhesion to the aluminum. The chemical adhesion promoter shall leave a



moisture free surface for the etching primer to adhere to. The polyurethane coating shall not be applied over untreated aluminum.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT COMPONENT FINISH: The shelf(vs), tray(s) and/or divider(s) will require a high strength, abrasion and chemical resistant finish. This compartment component(s) shall have the same polyurethane coating as the compartment inner surface.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

CEILING VENTILATION: Specified compartments shall have a hat channel at the ceiling level. The hat channel shall run to no closer than 1" from the compartment side walls to allow for air exchange. Hidden from view, shall be two to three, (4") holes above the hat channel to exhaust the compartment air when the door is closed to allow it to close with minimal effort.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

VENTILATION: There shall be three sets of six louver punches on the outside and inside door panel to properly ventilate the electrical components located in the above mentioned compartment.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT FLOOR CONFIGURATION: This compartment floor shall be a sweep out type floor. The compartment floor shall be flush with the lower door jamb to facilitate compartment floor cleaning. The edge of the compartment floor shall be continuously welded to the lower door jamb. Heat generated from welding shall not distort the straightness or flatness of the jamb or compartment floor. The weld quality must be aesthetically uniform.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT FLOOR THICKNESS: The compartment floor shall be .125 inch thick aluminum of single layer.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT DOOR: A single, forward hinged, compartment door shall be set for this compartment. The door shall have a single handle and two rotary latches.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

DOOR CHECK: The compartment door(s) in excess of 13" pass through width shall be equipped with a door check (hold open) device. All vertically hinged doors in excess of 13" pass through width shall have a gas operated bi-directional spring shock door check. Door check brackets shall be drilled and tapped through a minimum of 3/8" material to preclude coming loose.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

DOOR SWING: The compartment door checks shall be installed to allow the door to open ninety to 100 degrees (90 up to 100) from the fully closed position.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

ADJUSTABLE DIVIDERS: Two semi-rigid adjustable dividers shall be formed of 5052-H32 aluminum sheet. Each divider shall be thirty inches (30") high by fourteen inches (14") deep: measured from the track and have a two inch return flange formed along the thirty inch edge for mounting. All corners on the dividers shall be rounded or chamfered. The exposed edges shall be covered with automotive edge trim. Two full width, horizontally oriented, Unistrut C-channel tracks shall be fastened to the back wall of the aforementioned compartment.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

DIVIDER MATERIAL: The aforementioned divider(s) shall be made of 0.125 thick 5052-H32 aluminum sheet.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

RETAINER STRAP: One two inch wide webbed restraint strap shall be supplied in the compartment. The strap shall employ a metal buckle system with a push button release. The strap is to be fastened to the compartment walls with a two inch footman's loop. The fastener is not to be fastened through the webbing material.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

STOWAGE LABEL: A label shall be applied near the seatbelt material strap restraint with seatbelt buckle with footman metal brackets that are installed into the substrate indicating it's ability to restrain 20 pounds. These straps were tested to SAE J3058 standards to 20 pounds and found passing. The operator should not exceed the 20 pound weight rating. This item is compliant to section 3.11.3 of KKK-A-128F dated July 1, 2017.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

RETAINER BAR: There is to be a tube, approximately 1" diameter installed in the selected compartment to help protect from back boards falling out of the compartment when the door is opened.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT LIGHT: One (1) Vista Brand 12V powered White LED 3/8 inch flat top Rope light, Model#FSW1F, shall be mounted in the compartment, per customer specified location.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

RIGHT REAR FORWARD COMPARTMENT (M-6): This compartment shall be located just forward of the right rear compartment aft of the rear wheel opening. The minimum compartment dimensions shall be 20 3/4" High x 14 1/16" Wide x 20 1/2" deep.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

#### COMPARTMENT CONSTRUCTION

MATERIALS: Unless specified otherwise, all exterior compartment walls and backs shall be constructed of .100 polished aluminum diamond plate. All compartment floors shall be formed

of .125 aluminum sheet. Compartments for generators, oxygen, and backboards will have .250 compartment floors. All compartment ceilings shall be formed of .090 aluminum sheet. The ceilings and floors shall form around the sides and back to provide an overlapping joint. The floor and ceiling surfaces shall be double action (DA) sanded to 180 grit. The floors and ceilings are bonded to the walls and back and intermittent welded on six (6) inch centers.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

DRAIN HOLES: Drain holes shall be provided on the bottom of the compartments. Each hole shall be baffled to prevent splash water from entering the compartment.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT DOOR PANEL: The inside door panel of this compartment shall be diamond plate.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT FINISH: Unless specified otherwise, all exterior compartment walls and backs shall be constructed of .100 polished aluminum diamond plate.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT FLOOR CONFIGURATION: This compartment floor shall be a sweep out type floor. The compartment floor shall be flush with the lower door jamb to facilitate compartment floor cleaning. The edge of the compartment floor shall be continuously welded to the lower door jamb. Heat generated from welding shall not distort the straightness or flatness of the jamb or compartment floor. The weld quality must be aesthetically uniform.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT FLOOR THICKNESS: The compartment floor shall be .125 inch thick aluminum of single layer.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT DOOR: A single, forward hinged, compartment door shall be set for this compartment. The door shall have a single handle and one rotary latch.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

DOOR CHECK: The compartment door(s) in excess of 13" pass through width shall be equipped with a door check (hold open) device. All vertically hinged doors in excess of 13" pass through width shall have a gas operated bi-directional spring shock door check. Door check brackets shall be drilled and tapped through a minimum of 3/8" material to preclude coming loose.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

DOOR SWING: The compartment door checks shall be installed to allow the door to open ninety to 100 degrees (90 up to 100) from the fully closed position.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT LIGHT: One (1) Vista Brand 12V powered White LED 3/8 inch flat top Rope light, Model #FSW1F, shall be mounted in the compartment, per customer specified location.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

RIGHT FRONT COMPARTMENT (M-7): This compartment shall be located in the right front corner of the module body. The minimum compartment dimensions shall be 40" High by 25.25" Wide. The compartment door shall provide direct outside access into the right front advanced life support equipment storage area.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

VENTILATION: There shall be three sets of six louver punches on the outside and inside door panel to properly ventilate the electrical components located in the above mentioned compartment.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT DOOR: A single, forward hinged, compartment door shall be set for this compartment. The door shall have a single handle and one rotary latch.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

DOOR CHECK: The compartment door(s) in excess of 13" pass through width shall be equipped with a door check (hold open) device. All vertically hinged doors in excess of 13" pass through width shall have a gas operated bi-directional spring shock door check. Door check brackets shall be drilled and tapped through a minimum of 3/8" material to preclude coming loose.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

DOOR SWING: The compartment door checks shall be installed to allow the door to open ninety to 100 degrees (90 up to 100) from the fully closed position.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT LIGHT: One (1) Vista Brand 12V LED rope light, Model #FSW1F, shall be mounted in the compartment, per customer specified location.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

RIGHT FRONT BATTERY COMPARTMENT (M-8): This compartment shall be located in the lower right front corner of the module body. The minimum jamb pass through dimensions shall be 17 1/4" High x 25 1/4" Wide x 23" Deep. The 2-battery tray shall accommodate two group 31 series batteries and be mounted on full extension slides with a 250 pound per pair rating.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

#### COMPARTMENT CONSTRUCTION

MATERIALS: Unless specified otherwise, all exterior compartment walls and backs shall be constructed of .100 polished aluminum diamond plate. All compartment floors shall be formed of .125 aluminum sheet. Compartments for generators, oxygen, and backboards will have .250

compartment floors. All compartment ceilings shall be formed of .090 aluminum sheet. The ceilings and floors shall form around the sides and back to provide an overlapping joint. The floor and ceiling surfaces shall be double action (DA) sanded to 180 grit. The floors and ceilings are bonded to the walls and back and intermittent welded on six (6) inch centers.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

DRAIN HOLES: Drain holes shall be provided on the bottom of the compartments. Each hole shall be baffled to prevent splash water from entering the compartment.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT DOOR PANEL: The inside door panel of this compartment shall be diamond plate.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT FINISH: Unless specified otherwise, all exterior compartment walls and backs shall be constructed of .100 polished aluminum diamond plate.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

COMPARTMENT DRAWER FRONT (M-5 or M-8): A single non-hinged compartment door shall be bolted to the rollout tray. The door construction shall utilize the same construction techniques and materials that are used for the other hinged doors found on the unit body compartments. This front shall have two striker pins, one on each end of the door. The tray front shall support the door squarely with the jamb. The door shall roll out with the tray as a drawer front configuration.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

REAR ACCESS DOORS: The rear of the module shall be equipped with double, hinged patient compartment access doors. The doors shall be centered on the body and align with the patient compartment aisle space. The doors shall measure 46-3/4 inches wide by 60-5/8" high, jamb to jamb.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

REAR ACCESS DOOR JAMB: At the rear access doors, a full width, formed, stainless steel jamb protection plate shall be provided to prevent the cot frames from chipping the paint. The stainless steel protection package shall start from under the kick plate and follow the contour of the jamb extrusion, cover the end of the sub-floor and cover the last four inches of the vinyl floor covering.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

#### BODY PROTECTION AND BRIGHT WORK

WIRE/HOSE COVER: The area between the back of the cab and the front of the module shall have a .100 aluminum diamond plate cover, attached to the frame rails, to protect any hoses and/or wires routed in that location. The cover shall be mounted to close-off the area with a finished appearance.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

RIGHT SIDE COVER: The OEM Exhaust Treatment System shall be concealed from view with a custom cover. The polished aluminum diamond plate cover shall be formed to contour match the system. The cover shall originate from the top of the primary (Bottom) step, run vertically and form around the top corner and across the top of the system. The ends of the cover shall be continuously TIG Welded to the formed front and top. The cover shall be fastened securely against the OEM bracket system. All fastening devices shall be secured to the tank support brackets. The cover shall be rattle free and the installation shall be tested for vibrations with the engine running, placed in gear and the vehicle held at a complete stop.

PRIMARY STEP: The OEM primary step shall be replaced with an aluminum "Diamond Back" or expanded metal extrusion that protrudes beyond the face of the fuel tank cover by at least five inches. This step shall be through bolted to both OEM Fuel tank support brackets.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

SECONDARY STEP: A twenty six inch by seven inch deep step made primarily of aluminum "Diamond Back" or expanded metal extrusion shall be welded onto the fuel tank cover. The step shall be positioned to the outside of the lower door jamb on the passenger's side door. The outer portion of the step shall be supported by the entire twenty six inch length of the step extrusion. The top surface of this step shall be level to aid the passenger in and out of the cab.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

DEF TANK COVER; There shall be an polished aluminum diamond plate cover over the body of the DEF tank located just rearward of the primary cover under the left driver's side of the primary cab. This tank cover shall not interfere with the fill neck of the DEF tank. It shall attach securely to the OEM mounting structure of the DEF tank. The rectangular shape of the cover shall blend to the main tank cover.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

PRIMARY STEP: The OEM primary step shall be replaced with an aluminum "Diamond Back" or expanded metal extrusion that protrudes beyond the face of the fuel tank cover by at least seven inches. This step shall be through bolted to both OEM Step/air tank support brackets.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

SECONDARY STEP: A twenty six inch by seven inch deep step made primarily of aluminum "Diamond Back" or expanded metal extrusion shall be welded onto the fuel tank cover. The step shall be positioned to the outside of the lower door jamb on the passenger's side door. The outer portion of the step shall be supported by the entire twenty six inch length of the step extrusion. The top surface of this step shall be level to aid the passenger in and out of the cab.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

**FRAMING:** The rear step bumper shall exceed the current revision of KKK-A-1822. The bumper shall be framed in with ¼ x 2 x 4 6063-T6 aluminum rectangular tubing. The bumper shall be through bolted directly to the chassis frame.

**OUTER PONTOONS:** The outer bumper ends (pontoons) shall be covered in .100 polished aluminum diamond plate. The outer corners shall be rounded. Each pontoon cover shall be through bolted to the bumper frame with stainless steel, pan-head, Phillips head, ¼-20 bolts and Nylock nuts.

**DEPTH OF BUMPER:** The rear bumper shall protrude from the rear surface of the module body to the rearward most metal surface by at least thirteen and one half inches (13 1/2") and not more than fourteen inches (14").

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

**CENTER STEP:** A flip up step shall be provided to allow closer access to the patient cabin floor. The step shall be as wide as the rear access door jamb. The step shall have aggressive traction. The step shall have a red/white reflexite reflective strip across the flip up step. A stainless steel piano hinge shall have a staked in, ¼" diameter pin, one inch knuckles and one Type-F ¼" through bolt every four inches.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

**DOCKING BUMPERS:** The rear bumper shall be equipped with natural, black rubber dock bumpers. The bumpers shall measure 2 ¼ inches high by 8 inches long by 2 inches thick. The bumpers shall be through bolted to each pontoon with two (2) 3/8diameter, grade 8 bolts. The bolts shall be counter bored into each dock bumper. Each mounting hole shall be reinforced with a counter bore diameter, thick flat washer. Each bolt shall be threaded into a spiral lock flanged nut or approved equal.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

**FENDERS:** The rear fender shall be bright aluminum. The fender shall be isolated and mounted to the wheel opening with thin membrane, double side tape. In addition to the tape, 100% nylon bolt and nuts shall hold the fender to the body.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

**SKIRT RAILS:** The entire skirt-line of the body, forward and aft on the rear wheels shall have formed .188" diamond plate skirt rails to protect the body. Each skirt rail shall meet current Federal Specification KKK-A-1822. Each rail shall be chamfered 45 degrees at both ends. The rails shall be fastened through the bottom of the rail into the bottom of the modular body. The rails shall not cut into the paint. They shall be mounted through nylon isolators in such a manner that they are spaced off the body.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

**BODY CORNER POST PROTECTION:** The lowest twenty four inches (24") of the corner post extrusions shall be protected against stones and road debris. The corner post guards shall be formed of .080 thick polished aluminum diamond plate, contour fit to the corner post extrusions and riveted into place. A bead of silver colored, silicone sealant shall be applied across the top

edge of the guards. The bottom of edge of the guard shall be left unsealed to promote moisture drainage.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

FRONT OF BODY: The front of the body shall have skirt-line protection plates made of .080 aluminum diamond plate. The corner posts shall have form fit diamond plate protection height matched to the frontal plates. The height of the protection is twenty four inches up from the body skirt line.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

REAR KICK PLATE: The rear kick plate shall be made of 0.100 inch thick polished aluminum diamond plate and run from corner post to corner post. The height shall be from the skirt-line of the body to the bottom door

jamb on the rear access doors.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

RECOVERY EYES: Two vertically oriented, heavy duty cast iron tow eyes with a one inch threaded stud shall be through bolted to a one half inch thick steel plate that is continuously welded to the end of the OEM Frame. The recovery eyes shall be recessed into the kick panel so that the tangency of the eyes are co-planer with or set

back up to one inch. The recovery (tow) eyes shall not be trip hazard to personnel entering and leaving the rear access doors.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

ACCESS HOLES: Access to the recovery eyes shall be made through a finished access hole through the Diamond plate "Kick panel" under the rear doors. The access holes shall be at least five inches in diameter and the edges of the holes shall be covered in automotive edge trim. The trim must be bonded to the kick plate in

addition to the clamp on ribbing that shall be built into the trim.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

RECESSED TAG AREA: The kick plate shall feature a centered and illuminated recessed area to mount a standard U.S. six inch high by twelve inch wide license plate. The recessed area must be located as specified below and aesthetically TIG Welded around the perimeter of the opening. Threaded inserts and bolts to install the tag shall be installed and provided.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

RECESSED TAG AREA LOCATION: The tag area shall be centered in the kick plate.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

TAG LIGHT: The tag area shall be LED illuminated with the park light circuit.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_



COURTESY STEP LIGHTS: There shall be a pair of courtesy step lights consisting of a Whelen style T0CACCCR 2" light, mounted to the front of the modular body on the lower body diamond plate stone guards. The lights shall be illuminated with the door ajar circuit for the cab doors.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

REAR ACCESS DOOR CHECKS: Rear access doors shall open at least 150 degrees. The door checks shall be 2 piece, heavy duty, cast aluminum, grabber type with gaskets. The door shall have a ½ round stock loop that plunges into a positive rubber/cast socket.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

REAR MUD FLAPS: Mud flaps behind both sets of rear tires shall be supplied and installed. The mud flaps shall be 1/4" thick natural rubber material. Each mud flap shall be sandwiched between the wheel well liner and a torque distribution plate. The torque distribution plate shall be at least .100 thick aluminum plate. Each mud flap shall be through bolted to the wheel well liner with at least three (3) one-quarter inch (1/4") diameter stainless steel bolt.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

CORROSION: The anti-electrolysis procedure for any holes that are drilled for application of materials is to be as follows, After the hole is drilled, the opening(s) are to be treated with Tactile 517 prior to installation of any fasteners to guard against any future corrosion.

EXTERIOR FASTENERS: All screw sites require a replaceable nylon insert for the fastener to thread into to isolate the dissimilar metals. Each hole shall be treated with an Electrolysis Corrosion Control compound (Tactile 517) prior to installation of the nylon inserts. All exterior screws shall be stainless steel.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

TURN SIGNAL LIGHT: There shall be additional set of turn signal light fixtures on the front of the body, they shall be Whelen Brand series 600, Light Emitting Diode to operate as left and right turn signal lights and shall be amber arrow when illuminated.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

ADDITIONAL WARNING LIGHTS: There shall be installed CODE 3 M180 triple stack lights on the module body. The lights features built in flasher with 29 flash patterns and are IP67 rated. The LED color shall be RED The light features White LED steady burn work lights on each side of the light head facing forward.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

LOCATION: The aforementioned turn signal lights shall be positioned on the module front and just above the turn signals.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

FLANGES: The above lights shall have Whelen's optional bright trim bezel (Flange), to embellish the light head.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

BODY CORNER CAPS: The front and rear upper body corners shall include a cavity built into the aluminum body that shall not sacrifice the body integrity.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

FRONT CORNER ICC LIGHTS: The front body corner caps shall include DOT approved compliant light fixtures with clear lenses. The lenses shall house ICC fixtures that include amber LED's to be mounted to the front and front corners. There shall also be additional LED lights that alternate red and clear within the light to act as additional warning lights.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

FRONT ICC LIGHTS: Clearance lights shall be provided per FMVSS 108. The lights shall illuminate the height of the vehicle, define the vehicle center line. Three (amber) lights shall be provided on the front of the module and be populated with at least two LED's.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

REAR CORNER ICC LIGHTS: The rear body corner caps shall include DOT approved compliant light fixtures with clear lenses. The lenses shall house ICC fixtures that include red LED's to the rear and rear corners. There shall also be additional LED lights that alternate red and amber within the light to act as additional warning lights.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

REAR ICC LIGHTS: Clearance lights shall be provided per FMVSS 108. The lights shall illuminate the height of the vehicle, and define the vehicle centerline. Three red lights shall be provided on the rear of the module and be populated with at least two LED's.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

CORNER CAP WARNING LIGHT SWITCHING: The above mentioned corner cap LED lights shall be wired to activate in Primary Only.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

PATIENT ON BOARD LIGHTING: There shall be installed lighting that is activated when the vehicle is actively carrying a patient as selected by the driver of the unit. These lights shall be placed at locations designated by the purchasing agency. Hereafter, "Patient On Board" lighting will be referred to as "POB".

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_

POB LIGHT: There shall be (11) small LED red/white lights installed on the ambulance. The light shall flash white alternate to red when powered. Final location shall be determined by this department and noted on the final build order at confirmation.

Bidder Complies YES \_\_\_\_\_ NO \_\_\_\_\_