

**DETAILED SPECIFICATIONS  
FOR  
RENTON FIRE DEPARTMENT  
RENTON, WASHINGTON**

**0**      **GENERAL INSTRUCTIONS**

**0.01**      It is the intent of these specifications to secure an Ambulance constructed to withstand the severe and continuous use encountered during emergency service.

<b>COMPLY</b>	<b>YES</b>	<b>NO</b>
---------------	------------	-----------

**0.02**      The Ambulance shall be the latest type, carefully designed and constructed with due consideration to the nature and distribution of the load to be sustained. Bidder is required to provide weights of similar vehicles for comparison.

1. Vehicle Type \_\_\_\_\_ Year \_\_\_\_\_  
Body Length \_\_\_\_\_  
Unloaded Weights:  
Front: Left \_\_\_\_\_ Right \_\_\_\_\_  
Rear: Left \_\_\_\_\_ Right \_\_\_\_\_  
Total Curb Weight \_\_\_\_\_  
Owner of Vehicle \_\_\_\_\_  
Contact Person \_\_\_\_\_

2. Vehicle Type \_\_\_\_\_ Year \_\_\_\_\_  
Body Length \_\_\_\_\_  
Unloaded Weights:  
Front: Left \_\_\_\_\_ Right \_\_\_\_\_  
Rear: Left \_\_\_\_\_ Right \_\_\_\_\_  
Total Curb Weight \_\_\_\_\_  
Owner of Vehicle \_\_\_\_\_  
Contact Person \_\_\_\_\_

3. Vehicle Type \_\_\_\_\_ Year \_\_\_\_\_  
Body Length \_\_\_\_\_  
Unloaded Weights:  
Front: Left \_\_\_\_\_ Right \_\_\_\_\_  
Rear: Left \_\_\_\_\_ Right \_\_\_\_\_  
Total Curb Weight \_\_\_\_\_  
Owner of Vehicle \_\_\_\_\_  
Contact Person \_\_\_\_\_

<b>COMPLY</b>	<b>YES</b>	<b>NO</b>
---------------	------------	-----------

**0.03**

These specifications detail the requirements for general design criteria of engine, transmission, electrical, body, painting, and equipment. In evaluating the bid proposals to determine which proposal is the most advantageous, these major items shall be considered:

1. Conformity to the Specifications.
2. Bidders past performance with this and other agencies.
3. Manufacturers past performance with this and other agencies.
4. Bidders ability to service vehicles for this agency.
5. Cost of vehicles after adjustments for exceptions taken.

**COMPLY**    **YES** \_\_\_ **NO** \_\_\_

**0.04**

Ambulance and equipment must meet the specific requirements and the intent of the requirements as specified herein. All items of these specifications shall conform to the character of the proposed Ambulance and the purpose for which it is intended.

**COMPLY**    **YES** \_\_\_ **NO** \_\_\_

**0.05**

The Ambulance and equipment to be furnished in meeting these specifications must be the product of an established reputable emergency vehicle QVM certified manufacturer. Each bidder shall furnish satisfactory evidence of the manufacturer's ability to construct, supply service, parts, and provide technical assistance for the vehicle specified. Bidder shall provide name, address, and phone number of the nearest facility which meets the following criteria:

1. Facility is under direct control of bidder to insure prompt service.
2. Facility has the needed equipment, (i.e., press brake, shear, plasma cutter, paint booth, etc.) to fabricate major body parts.
3. Facility has the ability and authority to properly remount module body bid without affecting manufacturer's warranties.
4. Facility is a Ford QVM member.
5. Facility is a member of NTEA (National Truck equipment Association)

Name \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_

**COMPLY**    **YES** \_\_\_ **NO** \_\_\_

**0.06**

The manufacturer shall defend any and all suits and assume all liability for any claim against the purchaser for the use of any patented process, device, or articles forming any part of the emergency vehicle proposed. Each bidder shall supply proof of \$5,000,000 product liability and facility insurance or show proof of being listed on manufacturer's \$5,000,000 product liability and facility insurance policy.

**COMPLY**    **YES** \_\_\_ **NO** \_\_\_

- 0.07** The vehicle shall be tested and approved prior to delivery, and all records of same shall be submitted at time of delivery. Bidders shall state the amount of mileage the vehicle will have on it at the time of delivery.
- Approximate mileage at delivery \_\_\_\_\_
- COMPLY** YES \_\_\_ NO \_\_\_
- 0.08** The manufacturer shall supply one (1) copy of parts, service, and operational manuals at delivery of the proposed ambulance. Manuals shall include "As Built" body wiring diagrams.
- COMPLY** YES \_\_\_ NO \_\_\_
- 0.09** Bidder shall compute pricing less Federal and State taxes. It is understood that any applicable taxes will be added to the proposed prices unless the purchaser furnishes appropriate tax exempt forms. The proposal form contained herein shall be used by all bidders.
- COMPLY** YES \_\_\_ NO \_\_\_
- 0.10** Bids shall be addressed and submitted in accordance with the "Call For Bid Cover Letter". Bid envelope must be identified with the words "**Ambulance Bid**", the opening date, and time on the face of the envelope.
- COMPLY** YES \_\_\_ NO \_\_\_
- 0.11** It is the bidders' responsibility to see that their proposals arrive on time. Late proposals, telegrams, fax, e-mail or telephone bids will not be considered.
- COMPLY** YES \_\_\_ NO \_\_\_
- 0.12** The bidder shall state the number of calendar days required for delivery of the completed vehicle after receipt of order by the manufacturer.
- COMPLY** YES \_\_\_ NO \_\_\_
- 0.13** All bid prices shall be F.O.B. destination on a delivered and accepted basis of the finished vehicle. If a drive out allowance is allowed, it will be shown on the proposal page as a separate deduct amount, complete with details explaining the drive out procedure.
- COMPLY** YES \_\_\_ NO \_\_\_
- 0.14** The successful bidder will be responsible for preparing and maintaining a record file of all parts and assemblies used to manufacture the emergency vehicle. These records shall be maintained in the factory of the bidder for the life of the apparatus. File shall contain copies of any and all reported deficiencies, all replacement parts required to maintain the apparatus, and original purchase documents including specifications, contract, invoices, incomplete chassis certificates, quality control reports, and final delivery acceptance documents.
- COMPLY** YES \_\_\_ NO \_\_\_

**0.15** Due to the technical nature of this project, bidders are required to provide detailed drawings and detailed specifications of exactly what they are proposing. Bids not providing these required support documents shall be deemed non-responsive and rejected.

Drawings shall include four (4) exterior views showing lights, equipment, stripes, lettering, etc. and four (4) interior drawings showing cabinets, benches, equipment placement, etc.

The use of standard drawings and standard specifications or copies of bid drawings does not constitute detailed drawings and detailed specifications and shall not be considered. In order to make evaluations of proposals as quick and concise as possible, manufacturers detailed specifications shall be in the same order as the bid document. Minor details of construction and materials, where not otherwise specified, are left to the discretion of the contractor, who shall be solely responsible for the design and construction of all features.

**COMPLY** YES \_\_\_ NO \_\_\_

**0.16** Some items have been specified by brand name or model number. These have been carefully selected because of their reliability, the availability of parts and service, or uniformity with this department. In order to be responsive, items specified by brand name and or part number named shall be contained in bid proposals.

**COMPLY** YES \_\_\_ NO \_\_\_

**0.17** Each bidder must indicate compliance with these specifications by checking "Comply Yes / No" below each section of these specifications. Checking "Yes" will indicate complete compliance with that section; "No" will indicate an exception is being taken. Bidder must underline in red ink any portion of the section which will not be provided as specified. All exceptions must be fully explained on a separate page, giving reference to the page number and the section where the exception is being taken. Sufficient explanation and documentation shall be provided so that this agency may evaluate exception. Failure to comply with these requirements will result in automatic rejection of the entire proposal.

**COMPLY** YES \_\_\_ NO \_\_\_

**0.18** Proposals taking total exception to specifications will not be accepted.

**COMPLY** YES \_\_\_ NO \_\_\_

**0.19** The purchaser reserves the right to accept or reject any and all bids on such basis as the purchaser deems to be in its best interest, and is not bound to accept low bid.

**COMPLY** YES \_\_\_ NO \_\_\_

**0.20** The purchaser reserves the right, before awarding the bid, to require a bidder to submit evidence of their qualifications as may be deemed necessary.

**COMPLY** YES \_\_\_ NO \_\_\_

**0.21** All equipment furnished shall be guaranteed to be new and of current manufacture and to meet all requirements of these specifications. Workmanship shall be of high quality and accomplished in a professional manner so as to ensure a safe and functional apparatus.

**COMPLY** YES \_\_\_ NO \_\_\_

**0.22** Manufacturer shall warrant new apparatus of its own manufacture against defective workmanship and materials for a period of at least two years from the date of delivery to the purchaser. A lifetime module body warranty shall be provided. Under this warranty, manufacturer's liability is limited to furnishing purchaser, without cost, parts and labor required to replace defective material or workmanship when there is no indication of misuse, neglect, improper maintenance, accident, or overloading the apparatus. Defects shall be reported to seller in writing by the purchaser within the warranty period. Parts and labor will be supplied after inspection by an authorized agent of the manufacturer. Defective parts shall be returned prepaid by purchaser to seller when requested. Warranty shall begin upon acceptance of the manufactured apparatus by the purchaser. All warranties included with this proposal shall be provided by the respective manufacturer and included with bid proposal.

**COMPLY** YES NO

**0.23** In the event the unit fails to meet the specified requirements, the purchaser has thirty (30) days to notify the contractor in writing of corrections required. Failure to make such changes as the purchaser may consider necessary to conform to any clause of the specifications, within thirty days of notification, shall be cause for rejection of the unit.

**COMPLY** YES NO

**0.24** All bidders shall provide bid security in the amount of ten percent (10%) of the total bid price, payable by bidder to the purchaser. Such security may be in the form of a bid bond in form and from a surety company reasonably acceptable to purchaser, a cashier's check, or other security acceptable to purchaser. Bonds which do not show the bidder as "principal" shall be rejected as unenforceable and bid deemed non-responsive. In case of failure or refusal of the successful bidder to enter into a contract, the bid security submitted with the bid may be forfeited as liquidated damages because of such a failure.

**COMPLY** YES NO

**0.25** The successful bidder may be required to execute and deliver to the purchaser a Performance Bond in the amount of 100% of the contract price, in form and from a surety company reasonably acceptable to purchaser. The bond shall show the bidder as the "principal" and provide for a 100% guarantee that the bidder will deliver the apparatus and equipment per the bid specifications. The bond shall extend to the warranty provided by the bidder/manufacturer for one (1) year past delivery date, beyond which time the bidder/manufacturer will maintain continued responsibility for the remaining term of the warranties. Bidder shall state cost of such bond on price sheet. Requested bonds will only be acceptable if the bidder is listed as the principal on the bonds. Bonds from manufacturers will not be acceptable unless they are the bidder and will be a party to the contract.

**COMPLY** YES NO

**0.26** Bidder shall provide a pre-build meeting and a final inspection meeting at the manufacturing facility. If the bidder is not in the full time employment of the company who will manufacture the vehicle, he is required to attend both of these meetings. Bidder shall be responsible for the following expenses, to include airfare, ground transportation from airport to plant and return, meals and lodging if necessary. Pre-build meeting shall be for one person from purchaser. Final Inspection meeting shall be before two people from the purchaser.

**COMPLY**    **YES** \_\_\_ **NO** \_\_\_

**0.27** As this agency expects to remount this vehicle at some future date bidder shall supply a copy of the manufacturer's current remount warranty with the bid. If the manufacturer does not provide remount services bidder shall provide the name, address, phone, and history of the company who does provide the remount services, a current copy of their remount warranty and \$5,000,000 product liability insurance policy.

**COMPLY**    **YES** \_\_\_ **NO** \_\_\_

**0.28**    **FORCE MAJEURE**

The seller shall not be charged with liquidated damages or any excess cost when delay in delivery of goods is due to:

1. Any preference, priority of allocation order duly issued by the Government;
2. Unforeseeable cause beyond the control and without the fault, or negligence of the Seller, including but not restricted to, acts of God, or of the public enemy, acts of the Buyer, acts of another Contractor in the performance of a contract with the Buyer, fire, flood, epidemics, quarantine restrictions, strikes, freight embargoes, and unusually severe weather; and
3. Any delays of subcontractors occasioned by any of the causes specified in the two immediately preceding clauses.

Provided that the Seller shall, within seven (7) days from the beginning of such delay, notify the Buyer, in writing, of the causes of the delay whereupon the Buyer shall ascertain the facts and extent of the delay and notify the Seller within a reasonable time of its decision in the matter.

**COMPLY**    **YES** \_\_\_ **NO** \_\_\_

**0.29**    **INTER-LOCAL AGREEMENT**

Pursuant to Revised Code of the Washington (RCW) 39.34.030(5), any public agency or agencies in Washington may purchase or otherwise utilize this contract provided the public agency or agencies that awarded the original contract complied with all statutory notice and contracting requirements.

Public or purchasing agencies from Oregon and Washington may utilize this contract for interstate cooperative procurements, according to the requirements of ORS 279a.220 and RCW 39.34.

**COMPLY**    **YES** \_\_\_ **NO** \_\_\_

**INVESTMENT:**

---

---

Year \_\_\_\_\_ Make \_\_\_\_\_ Model \_\_\_\_\_ Price \_\_\_\_\_  
Sales Tax \_\_\_\_\_  
Total \_\_\_\_\_

Payment Terms: The above vehicle price shall be based upon a 90% payment being made upon receipt of vehicle with the balance due in 30 days.

Drive out allowance included in above price \_\_\_\_\_  
Inspection visit allowance \_\_\_\_\_  
100% Performance Bond – If required ADD \_\_\_\_\_

The price quoted above shall remain firm until \_\_\_\_\_

Delivery: Calendar days after receipt of order \_\_\_\_\_

Bidder \_\_\_\_\_

Signed \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_

Motor Vehicle Dealer License: State \_\_\_\_\_ # \_\_\_\_\_

**DISCLAIMER: THESE SPECIFICATIONS AND DRAWINGS ARE BASED ON THE AVAILABILITY OF A 2011 INTERNATIONAL 4400 SBA CHASSIS.**

**1 CHASSIS**

**1.01 OEM CHASSIS**

- 2011 International 4400 SBA LP, 4 x 2, (MH035) chassis
  - Warranty is a twelve (12) month basic “bumper to bumper”
  - 96 Months/3,600 Hours/100,000 mile engine warranty
  - 60 Months unlimited parts and labor transmission warranty
  - Chassis provided by manufacturer

**COMPLY YES NO**

**1.01.01 SPECIFIC RATINGS**

- Drive – 4 x 2
- GVW Capacity – 20,000 lbs
- Wheelbase – 175”
- Cab to Axle – 107.9”
- Axle to Frame – 63”
- Ratio – 4.33

**COMPLY YES NO**

**1.01.02 POWERTRAIN**

- Engine – International MaxxForce 9
  - 330 hp; 2200 GOV RPM, 950 lb/ft. @ 1200 RPM
  - Exhaust Brake
  - Block Heater, 1250 watt
- Transmission
  - Allison 3000EVS\_P
  - Automatic, 6 speed with double overdrive
  - With provisions for PTO, less retarder
- Engine Cooling System – Aluminum Radiator
  - 2-Row cross flow over under system,
  - 816 Sq. In. Louvered, with 313 Sq. In.
  - Heater shut off valves
- Exhaust
  - Exhaust system in accordance with Federal Motor Carrier Safety Regulations, Part 393.83
  - Single, horizontal, frame mounted right (driver’s) side back of cab
  - Tailpipe outlet shall not terminate within six (6) inches of the vertical axis of the fuel tank filler openings

**COMPLY YES NO**

**1.01.03**

**STEERING**

- Power – TRW Ross TAS-40
- Tilting Column
- 18” steering wheel

**COMPLY**    **YES**    **NO**

**1.01.04**

**AXLES AND SUSPENSION**

- Front Axle – I-Beam type, 8,000 lb. Capacity
- Front Suspension – Spring Parabolic, Taper Leaf, 8,000 lb. Capacity, with shock absorbers
- Rear Axle, Single Reduction, 17,500 Capacity
- Rear Suspension – Ride Optimized Suspension, 12,000 lb. Capacity, 5.3” ride height
- Front and Rear Shock Absorbers
- Relocate air tanks moved to inside frame rail

**COMPLY**    **YES**    **NO**

**1.01.05**

**BRAKING SYSTEM**

- Air Dual System
- Four Channel ABS
- Parking Brake, Yellow knob located on instrument panel
- Air Compressor – Bendix Tu-Flo 550, 13.2 CFM capacity
- Drain Valve – Spitter valves with pull cords

**COMPLY**    **YES**    **NO**

**1.01.06**

**TIRES AND WHEELS**

- Front Tires – Two (2) 245/70R, 19.5, 12 ply, G647 RSS Goodyear
- Rear Tires – Five (5) 245/70R, 19.5, 12 ply, G647 RSS Goodyear
- Wheels – 19.5” Outer rims, painted steel, 10 stud  
19.5” Inner rear rims, Steel, 10 stud

**COMPLY**    **YES**    **NO**

**1.01.07**

**ELECTRICAL**

- Alternator – 320 Amp Leece-Neville 4962 PAH
- Batteries – Three (3) Maintenance-Free, 12-Volt, 2100CCA
- Starting Motor – Delco Remy 38MT Type 300, 12V, less Thermal Over-Crack protection

**COMPLY**    **YES**    **NO**

**1.01.08**

**INSTRUMENT PANEL AND CONTROLS**

- Gauges
  - Odometer Display – Miles, trip miles, engine hours, trip hours
  - Coolant temperature – Electronic
  - Oil Pressure – Electronic
  - Transmission Oil Temperature
  - Speedometer – Electronic
  - Tachometer – Electronic
  - Fuel – Electronic
  - Voltmeter
  - Air Cleaner Restriction
- Warning System – Lights and Buzzer
  - Low Fuel
  - Low Oil Pressure
  - High Engine Coolant Temperature
  - Low Battery Voltage
- Controls
  - Cruise – Controls integral to steering wheel
  - Back Up Alarm – 102 dBA
- Audio – AM/FM/CD Stereo with Weather band and clock

COMPLY	YES	NO
--------	-----	----

**1.01.09**

**CAB EXTERIOR**

- Cab – Conventional Steel
- Front End – Three (3) piece, tilting, fiberglass
- Grille – Chrome
- Front Bumper – Full width, aerodynamic, chrome plated steel
- Tow Hooks – Front, two (2) frame mounted
- Steps – Two per door
- Mirrors – Lang Mekra
  - Rectangular, 7.09” x 15.75”, breakaway brackets – 102” spacing
  - Integral Convex – Look down, 6”W x 10.25”H
  - Powered, Heated heads, LED Clearance Lights
- Windows – Tinted glass
- Lighting
  - Five (5) flush mounted Amber LED clearance lights
  - Headlights – Long Life Halogen, Composite Aero design for two light system, including daytime running lights
  - Front turn signals – flush mounted, reflectors and auxiliary side turn signals
  - Parking Light – Integral with Front Turn signal and Rear Tail Light

- Horns
  - Dual electric
  - Air – Single trumpet
  - Air Horn Switch in Instrument Panel, close to the passenger
  - Driver control, air horn switch at steering wheel
- Windshield Wipers – Electric two-speed integral, Wash and Intermittent feature
- Fuel Tank – 50 Gallon, top draw, mounted left side, under cab
  - Fuel/water Separator

COMPLY	YES	NO
--------	-----	----

**1.01.10**

**CAB INTERIOR**

- Interior – Premium Trim / Smoke Gray with Black
- Cab Sound Insulation – Dash and Engine Cover
- Headliner – Padded cloth
- Sun Visors – Padded vinyl
- Door Trim – Molded Plastic
- Floor – Black Rubber
- Seats
  - Air Suspension, high back with integral headrest, cloth, -3 to +14 degree seat back adjustment, air lumbar support
  - Right and left arm rests
- Seat Belts – 3-point, lap and shoulder belt type, Red Color
- Climate Control – Air Conditioner, Heater & Defroster
- Lighting
  - Dome light center mounted, rectangular
  - Two (2) courtesy lights mounted in front map pocket left and right side
- Electrical
  - 12 Volt system
  - Manual reset circuit breakers
  - 12 Volt receptacles (Cigar Lighter and Power Source)
  - Body builders wiring
- Provision for Remote mounted Engine Control
  - Wiring for Body Builder installation of PTO controls
  - Ignition switch control
- Additional Options
  - Overhead console
  - Coat hook
  - One (1) “A” pillar grab handle
  - Two (2) Grab Handles
  - Power Door Locks & Windows
  - Temperature/Compass located in center of dash

COMPLY	YES	NO
--------	-----	----

**1.01.11**

**COATINGS**

- Cab – Red #2467
- Chassis Interior – Gray

COMPLY	YES	NO
--------	-----	----

**1.02 CHASSIS MODIFICATIONS**

The following modifications shall be made to the chassis.

**1.02.04 EXHAUST HEAT SHIELDS**

Shall be formed from 20 ga. galvanized steel sheets with stamped reinforcements and formed edges. Access openings shall be provided for shock absorber, mounting bolts, etc. Heat shields shall be bolted to chassis frame and extend from back of cab to the frame cross member just behind the rear axle.

**COMPLY YES NO**

**1.02.05X RUNNING BOARDS**

Repaint the OEM steps and install diamond plate trim. Paint the passenger side chassis fuel tank, driver's side battery box, cover and air tanks.

**COMPLY YES NO**

**1.02.08C RECOVERY EYES**

Two (2) rear recovery eyes, rated at 10,000 lbs. per pair, shall be installed in 6.75"W x 6.75"H x 4.375"D recessed pockets. Eyes shall be 1.8125" ID, bolted to frame. These eyes shall not be used for towing or lifting of emergency vehicle.

**COMPLY YES NO**

**1.02.09X MUD FLAPS**

Shall be OEM installed behind the front wheels, and behind each rear wheel.

**COMPLY YES NO**

**1.02.11X AIR HORN**

Shall be Grover Stutter Tone and be mounted in the curbside of the front bumper. The horn shall be controlled by a switch installed in the overhead console on the officer's side, and shall wired battery hot. Air horn valve shall be placed as close to the horn as possible to eliminate delay at activation.

**COMPLY YES NO**

**1.02.12X MAP BOX**

A black powder coated center mounted map box shall be installed in the cab. (Sections 6.09, 6.18, and 6.25 related)

**COMPLY YES NO**

**1.02.14X AIR SUSPENSION**

The automatic drop system shall be activated by the module streetside rear door. An override switch shall be located on the driver's console. Air suspension shall inflate when vehicle is placed in gear.

**COMPLY YES NO**

**1.02.20X VEHICLE SECURITY/TRANSMISSION DISABLE**

A switch shall be provided under the OEM dash to disable the chassis transmission selector.

**COMPLY YES NO**

**1.02.26X**

**AIR ADDITIONS/MODIFICATIONS**

A Kussmaul #091—9B-1, 110V auto pump system, with #091-9H1 mounting plate shall be provided and wired to shoreline to keep air brake system charged at all times. Compressor shall be located in below floor portion of Compartment #1. All air tanks shall have a spitter valve with pull cords connected quick drains. A shop air fitting shall be added to primary tank.

**COMPLY**    **YES** \_\_\_ **NO** \_\_\_

**1.02.31X**

**STATION EXHAUST**

The OEM exhaust system shall discharge at the right (driver's) side at the back of the cab. (Section 1.01.02 related) Exhaust outlet shall accommodate the Nederman exhaust system.

**COMPLY**    **YES** \_\_\_ **NO** \_\_\_

**1.02.36X**

**AUXILIARY COMPRESSOR/CONDENSER**

An auxiliary air conditioning compressor and bracket shall be added to the OEM engine and a skirt mount condenser shall be added to the chassis. Install a shutoff valve for heater, quarter turn.

**COMPLY**    **YES** \_\_\_ **NO** \_\_\_

**1.02.50X**

**CHASSIS SPECIALS**

Guard plates shall be fabricated from stainless steel and installed to protect below the doorway thresholds from wear caused by "foot traffic" entering the cab.

**COMPLY**    **YES** \_\_\_ **NO** \_\_\_

**1.02.55X**

**MISCELLANEOUS MODIFICATIONS**

An air chuck connection shall be added on the chassis for easy access to the OEM air compressor tank. (Section 1.02.26 Related)

**COMPLY**    **YES** \_\_\_ **NO** \_\_\_

**1.02.60X**

**CHASSIS LIGHTING**

One (1) SL20 rechargeable 12V flashlight and charging bracket shall be installed behind the passenger seat on the lower back corner, and shall be hard wired battery hot.

Two (2) Weldon #8086-6978-68 Red/Clear interior lamps shall be installed in the ceiling, centered above door of driver and officer. Lights shall be switched on the light head.

**COMPLY**    **YES** \_\_\_ **NO** \_\_\_

**1.03**      **MODULE-TO-CHASSIS MOUNTING SYSTEM**

**1.03.01**      **MODULE MOUNTING SYSTEM**

The module shall be bolted to the chassis frame in twelve (12) locations. Each mounting location shall include a hard rubber isolation pad between the chassis frame and the module lateral frame. Eight (8) 3/4" Grade 5 bolts shall extend through the lateral and sides of the frame member and bolt to the web of the chassis frame with a 3/4 Grade 5 bolt. The four (4) rearmost bolts shall be 5/8" bolts. All bolts shall be secured with locking nuts.

**COMPLY**      **YES** \_\_\_ **NO** \_\_\_

**1.03.02A**      **CAB-TO-MODULE ATTACHMENT**

The module shall be attached to the cab with a flexible watertight boot to allow cab-body flex as designed by the chassis manufacture. The chassis rear window opening shall be modified with an aluminum insert painted to match the body.

**COMPLY**      **YES** \_\_\_ **NO** \_\_\_

**2X** **MODULAR CONSTRUCTION**

All material utilized shall be of the correct type, alloy, and thickness to withstand the intended usage and provide protection against cracking, corrosion, or metal fatigue. All materials utilized shall be of open stock origin, commonly available through local sources, for rapid and economical repair or modification of the body. Any use of proprietary parts or materials in the construction of the body is unacceptable, due to potential delays or difficulties in future repairs or service. This specification has been designed and written to fill specific needs of this agency. Where brand name, make, or model of equipment has been specified, no exceptions will be allowed. Where compartment and cabinet sizes have been specified, bidder must bid substantially (plus or minus 1") the size specified.

The module shall have a transferable lifetime structural warranty.

Module shall comply with AMD001-009 Standards and certification shall be from a third party engineer.

**NO EXCEPTIONS TO BE TAKEN IN THIS AREA.**

**COMPLY**    **YES**    **NO**

**2.01**

**MATERIAL**

<u>EXTRUSIONS</u>	<u>SIZE</u>	<u>ALLOY</u>
Structural Tubing	1" x 2" x 0.125" sq.	6063-T52
Structural Tubing	2" x 2" x 0.125" sq.	6063-T52
Cross Members	3" x 3" x 0.375"	6061-T6
Cross Members	1.5" x 3" x 0.25"	6061-T6

<u>FORMED SHEETING</u>	<u>SIZE</u>	<u>ALLOY</u>
Skin/Roof/Compartments/Subfloors/Doors	0.125"	5052-H32
Interior Cabinets	0.090"	5052-H32
Diamond Plate	0.125"/0.08"	3003-H32
Stainless Steel	16 ga., 20 ga.	304 # 4B

**COMPLY**    **YES**    **NO**

**2.02**

**MODULE DIMENSIONS**

Overall Vehicle Dimensions: (Specifications are listed as minimums.)

Length:	25'	1"	(301")
Width:	7'	10"	( 94") (Excluding Mirrors)
Height:	9'	4.5"	(112.5")

Exterior Module Dimensions: (Specifications are listed as minimums.)

Length:	15'	2"	(182")
Width:	7'	10"	( 94")
Height:	7'	8.375"	( 92.375")

Interior Dimensions: (Specifications are listed as minimums.)

Length:	Forward Wall to Rear Doors	175"
Width:	Left Wall to Right Wall	89"
Floor Width:	Left Cabinets to Squad Bench	44"
Height:	Floor to Ceiling	76"

Load Height:	Ground to Floor Height	33"
	Maximum with air suspension deflated	

**COMPLY**    **YES**    **NO**

**2.03**

**STRUCTURAL FRAMING**

Sidewall and rear wall construction shall consist of 2" x 2" x 0.125" aluminum square tubing extensions welded together with a maximum of 14" centers. 1" x 2" x 0.125" aluminum tubing may be utilized in addition to 2" x 2" tubing to accommodate custom compartment sizes. The bottom of the wall structure shall be sealed with welded 2" x 2" tube, 2" x 2" angle or 0.125" plate depending upon location. Wall structure shall be capped with 2" x 2" x 0.125" header upon which 2" x 2" x 0.125" roof structure is welded. This process provides a unitized roll cage structure for greater occupant safety. The front wall structure shall be constructed of a minimum of 1.250" x 3.875" x 0.125" formed aluminum channel to allow ample space for wiring raceways, heater A/C hoses, and cold air return duct.

**COMPLY**    **YES**    **NO**

**2.04**

**FOUNDATION SYSTEM**

Shall consist of a 0.125" aluminum sheet subfloor with foundation members securely welded under the subfloor. Members shall consist of eight (8) 3" x 3" x 0.375" structural angles with two (2) 0.250"x 1.5" aluminum members running lengthwise between the structural angles.

**COMPLY**    **YES**    **NO**

**2.05**

**MODULE SEAMS**

All body and compartment seams at or below floor level shall be full seam welded. The entire perimeter of the subfloor shall be completely sealed with a caulking material, creating a watertight, dust-free module environment.

**COMPLY**    **YES**    **NO**

2.06

**EXTERIOR SKIN**

In addition to welding the exterior skin to structural framing, a Norton very high bond system shall be utilized full length on all wall and roof frame members. A polyurethane adhesive sealant shall be applied to the edges of structural tubing at the exterior wall surfaces.

The module shall be constructed utilizing full size sheet construction to minimize body seams. Seams above the passage doors and cab shall be minimal. There shall be no corner or mid body seams.

**COMPLY**    **YES**    **NO**

2.07A

**MODULE ROOF**

In order to improve module strength and reduce roof seams the following roof system shall be utilized. The roof shall be seamed in the center, have a 1.500" radius at the corners, and provide a weatherproof overlap of the aluminum side sheets 5.250" below the roof line. The roof shall be supported by positive contact between sidewall framing and roof framing. All seams on the roof surface shall be full seam welded on the outside and caulked on the inside. The module roof edges, front and rear, shall be constructed to allow mounting of the recessed light bars. This roof design shall have been tested to meet A.M.D. standards and a detailed exploded drawing of the roof structure shall be provided. In order to avoid the possibility of paint and/or weld cracking, no extrusions shall be used in the exterior construction of the roof or corners of the vehicle.

**COMPLY**    **YES**    **NO**

2.08X

**MODULE EXTERIOR COMPARTMENTS**

All compartments are constructed from formed 0.125" aluminum and are securely welded to the subfloor and structural framing. A baffled drain hole shall be provided in all exterior compartment bottoms that extend below the floor line. All exterior adjustable shelves shall be mounted on heavy duty aluminum unistrut track which is securely welded to compartment interiors. Each shelf shall support at least 300 lbs. of equipment.

**COMPLY**    **YES**    **NO**

**COMPARTMENT #1**

**Interior Dimensions** – 26"W x 81"H x 22"D

**Doorway Dimensions** – 26"W x 75"H

**Location** – Streetside, forward

**Shelving** – Two (2) adjustable

**Door(s)** – Single

**Light(s)** – One (1) 65" FlexLite, forward wall

**Additional Instructions** – The 110VAC Power Box shall be installed in the forward wall (Section 6.21 related), recessed so as not to protrude into the compartment. Three (3) Heavy-duty aluminum unistrut tracks shall be installed on the back wall. Two (2) "*Customer Supplied*" SCBA brackets shall be installed in the fore and aft corners of the compartment.

One (1) Ferno "J" hook shall be installed on the back wall below the upper shelf.

The compartment shall be vented by two (2) sets of louvers in upper and lower portions of the door.

**COMPLY**    **YES**    **NO**

**COMPARTMENT #2**

**Interior Dimensions** – 44"W x 35"H x 22"D

**Doorway Dimensions** – 44"W x 35"H

**Location** – Streetside, forward of wheel well

**Shelving** – One (1) adjustable, one (1) 300 lb. roll out tray

**Door(s)** – Double

**Light(s)** – One (1) 30" FlexLite, aft wall

**Additional Instructions** – One (1) Waeco CR50, 110V AC/12V refrigerator, left side hinge, shall be installed in the upper forward portion of the compartment. Two (2) vertical unistrut tracks shall be installed on the forward wall of close out and rear wall to support adjustable shelf. One (1) roll out tray shall have 300 lb. capacity and shall be mounted in the bottom of this compartment with a latch to hold it open or closed. The compartment shall be vented by louvers in the upper portion of the doors.

**COMPLY**    **YES**    **NO**

**COMPARTMENT #3**

**Interior Dimensions** – 17"W x 48"H x 22"D

**Doorway Dimensions** – 17"W x 48"H

**Location** – Streetside, aft of wheel well

**Shelving** – None

**Door(s)** – Single

**Light(s)** – One (1) 40" FlexLite, forward wall

**Additional Instructions** – The compartment shall be vented by louvers in the upper and lower portion of the door.

**COMPLY**    **YES**    **NO**

**COMPARTMENT #4**

**Interior Dimensions** – 30"W x 81"H x 22"D

**Doorway Dimensions** – 30"W x 69.5"H

**Location** – Streetside, rear

**Shelving** – Two (2) 13.5" bin

**Door(s)** – Single

**Light(s)** – Two (2) 65" FlexLite, forward and aft walls

**Additional Instructions** – This compartment shall have three (3) straps setup for storage of an "M" size cylinder. One (1) 110V AC outlet shall be installed on the back wall, 24" above the floor, 4" in from door. One (1) Amerex Model 423 20# dry chemical extinguisher, and one (1) Amerex model 240 2.5 gallon pressurized water extinguisher shall be installed one (1) on the forward wall, and one (1) on the aft wall, with Ziamatic Walkaway Brackets Model UN-7-60-1-SF. *"Customer Supplied"* fire tools shall be installed on the rear wall with three (3) quick fists. The compartment shall be vented by two (2) sets of louvers in upper and lower portions of the door.

**COMPLY**    **YES**    **NO**

**COMPARTMENT #5**

**Interior Dimensions** – 20"W x 81"H x 22"D

**Doorway Dimensions** – 20"W x 75"H

**Location** – Curbside, rear

**Shelving** – Two (2) 12.5" bin

**Door(s)** – Single

**Light(s)** – One (1) 70" FlexLite, forward wall

**Additional Instructions** – One (1) "*Customer Supplied*" Ferno 59 EZ Glide stair chair (10"W x 38"H x 22"D) shall be installed in a pocket the aft lower portion with door skin having a recessed pocket. The forward section shall provide storage for two (2) "*Customer Supplied*" backboards, one (1) "*Customer Supplied*" scoop, and two (2) quick release buckles. A formed stainless steel gasket cover shall be installed so that backboards do not cut gasket. Unistrut shall be installed on the back wall above the stair chair for adjustable shelves. The compartment shall be vented by louvers in the upper and lower portions of the door.

**COMPLY**    **YES**    **NO**

**COMPARTMENT #6 – Inside/Outside Access**

**Interior Dimensions** – 21.74"W x 51.5"H x 24.125"D

**Doorway Dimensions** – 21.75"W x 51.5"H

**Location** – Curbside, forward of passage door

**Shelving** – See Cabinet #18

**Door(s)** – Single

**Light(s)** – One (1) 45" FlexLite, forward wall

**Additional Instructions** – This compartment shall have a full width stainless steel threshold on the floor level shelf. The compartment shall provide inside/outside access to the lower open shelf area of Cabinet #18. The below-floor portion of this compartment shall hold one (1) "*Customer Supplied*" 2310BV VX-2 SSCOR portable suction unit, and charging/retention bracket, Model #8310. The charging/retention bracket shall be installed on the forward wall and hard wired for continuous battery power. The adjustable shelf shall be set to allow for aid kits, 20.5"W x 18.5"H, *exact location to be determined at pre-construction meeting.*

**COMPLY**    **YES**    **NO**

**COMPARTMENT #7**

**Interior Dimensions** – 21”W x 75”H x 22”D

**Doorway Dimensions** – 21” x 70”

**Location** – Curbside, forward

**Shelving** – Two (2) adjustable

**Door(s)** – Single

**Light(s)** – One (1) 60” FlexLite, forward wall

**Additional Instructions** – This compartment shall have a full width stainless steel threshold on the floor level shelf. Three (3) vertical heavy duty unistrut shall be installed on the back wall. The below-floor portion of this compartment shall hold two (2) “Customer Supplied” “D” size oxygen cylinders, with a yoked bracket, and one (1) restraining strap with one (1) quick release buckle. Two (2) “Customer Supplied” SCBA brackets shall be installed in the fore and aft corners of the compartment.

One (1) Ferno “J” hook shall be installed on the back wall below lower shelf and 34” above the floor. Top shelf shall be installed 12” above the lower shelf. The compartment shall be vented by louvers in the lower portions of the door.

**COMPLY**  **YES**  **NO**

**2.09 MODULE DOORS**

The doors shall be box pan formed with a total thickness of 2”.

**COMPLY**  **YES**  **NO**

**2.09.01 DOOR SEAL**

Each door frame will have a 0.875" flange for the installation of an air cell hollow core, 360-degree compression door seal. This seal creates a watertight, dust-free compartment integrity. Door seal shall be knock-on type.

**COMPLY**  **YES**  **NO**

**2.09.02 DOOR HINGES**

Shall be full length, piano type, stainless steel hinges, 2.5" wide with a 0.25" pin. The hinges shall be attached with 12 x 3/4 stainless steel truss head screws spread 4" apart and staggered 0.5" horizontally for additional strength and adjustability. Hinges shall be staked every 4". All curbside and streetside doors shall be hinged on the forward sides. All rear doors shall be hinged on the outboard sides.

**COMPLY**  **YES**  **NO**

**2.09.03 DOOR LATCHES**

Shall be flush mounted, stainless steel, Versch paddle type slam latches with rotary latch striker posts, which meet FMVSS 206 requirements. Striker shall be adjustable and shall be secured with a nut from behind door frame. The striker washer will not be removed. Cold rolled, threaded 0.162" steel rods shall be used to activate dual rotary latches. Once final adjustments to latches are made, threads are to have Locktite or equivalent applied. All double door compartments shall have an exterior stainless steel paddle handle and rotary latches on each door. Doors will latch to door frame mounted striker posts only and not to one another. All entrance doors shall have interior handles with dual point, rod actuated, rotary latch systems which are lockable inside and out. All latches will have a non-slip surface on the underside of the latch. All compartment and module access doors shall be keyed for #510CH keys. (Section 6.40B related)

**COMPLY**  **YES**  **NO**

**2.09.04**

**COMPARTMENT DOOR CONTROL**

A heavy-duty, double spring door control capable of holding the door open at approximately a 90-degree angle on any road surface shall be installed at the top of each compartment door.

**COMPLY**    **YES**    **NO**

**2.09.05**

**CURBSIDE DOOR CONTROL**

Shall be a heavy-duty, double spring door check installed at the top of the door. This door check will hold the passage door open at approximately a 90-degree angle on any road surface.

**COMPLY**    **YES**    **NO**

**2.09.06**

**REAR DOOR CONTROL**

Shall be Cast Products "grabber" type hold-open devices with replaceable rubber catches.

**COMPLY**    **YES**    **NO**

**2.09.07X**

**COMPARTMENT DOORSKINS**

Shall be mill finish aluminum and be removable to service door hardware.

Door skins to be 1" larger than chevrons.

All compartments shall be fitted with a stainless steel edge protector, attached to the latch side of the body, designed to keep equipment from chipping the paint while being loaded or unloaded.

Red and gold 6" Scotchlite chevrons shall be installed on all interior compartment doors.

**COMPLY**    **YES**    **NO**

**2.09.08X**

**ENTRANCE DOORSKINS**

Rear doors shall be 0.080" bright aluminum diamond plate and be removable to service door hardware. The curbside entrance door skin shall be 0.080" brushed aluminum with stainless steel kick panel installed below the grab rail and door latch.

Red/white 1" conspicuity tape shall be installed on the vertical edge of the side passage door, top and bottom of rear doors. Each door skin shall be two (2) pieces, split below the paddle latch.

**COMPLY**    **YES**    **NO**

**2.09.09X**

**ENTRANCE DOORWAYS**

One (1) curbside and two (2) rear module entrance doors shall be provided. The curbside doorway dimensions shall be 28"W x 77.75"H. The rear doorway dimensions shall be 49.75"W x 66"H.

**COMPLY**    **YES**    **NO**

**2.09.10**

**THRESHOLDS**

All compartment and module access door frames shall have full width formed stainless steel threshold plates to protect the lower edge of frame.

**COMPLY**    **YES**    **NO**

**2.10X**

**MODULE INTERIOR CABINETS**

Shall be formed of 0.090" aluminum and shall be securely welded or mounted to the structural framing. All interior adjustable shelves shall be mounted on 1" wide aluminum Unistrut track.

**COMPLY**    **YES** \_\_\_ **NO** \_\_\_

**CABINET #1**

**Dimensions** – 32"W x 15"H x 17.75"D

**Location** – Streetside, forward

**Shelving** – None

**Door(s)** – Hinged clear polycarbonate with gas shock lift system and twist "slam" latch and extruded aluminum door pulls

**Additional Instructions** – None

**COMPLY**    **YES** \_\_\_ **NO** \_\_\_

**CABINET #2**

**Dimensions** – 32"W x 15"H x 17.75"D

**Location** – Streetside, center

**Shelving** – None

**Door(s)** – Hinged clear polycarbonate with gas shock lift system and twist "slam" latch and extruded aluminum door pulls

**Additional Instructions** – None

**COMPLY**    **YES** \_\_\_ **NO** \_\_\_

**CABINET #3**

**Dimensions** – 32"W x 15"H x 17.75"D

**Location** – Streetside, center

**Shelving** – None

**Door(s)** – Hinged clear polycarbonate with gas shock lift system and twist "slam" latch and extruded aluminum door pulls

**Additional Instructions** – None

**COMPLY**    **YES** \_\_\_ **NO** \_\_\_

**CABINET #4**

**Dimensions** – 32"W x 15"H x 17.75"D

**Location** – Streetside, rear

**Shelving** – None

**Door(s)** – Hinged clear polycarbonate with gas shock lift system and twist "slam" latch and extruded aluminum door pulls

**Additional Instructions** – None

**COMPLY**    **YES** \_\_\_ **NO** \_\_\_

**CABINET #5**

**Dimensions** – 18.75"W x 20.5"H x 22"D

**Location** – Streetside, rear

**Shelving** – None

**Door(s)** – Sliding, clear 0.177" acrylic with felt lined anodized aluminum track and full extruded aluminum door pulls

**Additional Instructions** – None

**COMPLY**    **YES** \_\_\_ **NO** \_\_\_

**CABINET #6 – CPR Seat with Storage**

**Dimensions** – Bench: 26.75"W x 16.25"H x 22"D

Storage: 26.75"W x 8.875"H x 22"D

**Location** – Streetside

**Shelving** – None

**Door(s)** – Aluminum bench lid, with 3" high-density foam padding covered with seamless Vinyl Naugaform formfit 2. The pad shall be removable.

**Additional Instructions** – The CPR seat back pad shall have 1" high density foam padding covered with seamless Vinyl Naugaform formfit 2. One (1) set of seatbelts shall be installed on the seat. A high back attendant seat back shall be installed on the aft portion of the CPR seat. One (1) 3-point shoulder/lap belt shall be installed on the streetside wall. The CPR seat base to be formed from aluminum and securely anchored to sub-floor. The bottom and unfinished sides of the storage area shall be lined with indoor/outdoor carpet.

An aluminum, 20"W x 8"H, hinged down door with twist/slam latch shall be installed on the forward end of the CPR seat.

**COMPLY**    **YES** \_\_\_ **NO** \_\_\_

**CABINET # 7 – Action Area**

**Dimensions** – 28.5"W x 34.5"H x 22"D

**Location** – Streetside forward of CPR seat

**Shelving** – None

**Door(s)** – None

**Additional Instructions** – It shall contain an attendant control panel, vacuum connection, one (1) oxygen outlet, one (1) 110V AC outlet, thermostat, blower switch, electric oxygen, one (1) David Clark headset jack and hook, and one (1) SSCOR suction unit with control panel #22000 and canister holder #22002. The entire action wall area shall be lighted utilizing a Thin-Lite Model #612 light with 12VDC dual 11" fluorescent bulbs. Full depth counter top shall be located below the action wall. The counter top shall be one-piece 16 gauge, 304 stainless steel with a 0.5" aluminum retaining lip.

A sharps and waste space (sized for a Becton-Dickinson, 8.2 Qt., sharps and a 7 Qt. waste) shall be located at the aft of the countertop and accessible thru a street side hinged acrylic door and accessible for changing thru a removable panel on top of the area. The lid shall be red with a "Biohazard Waste" label. Hinge the cover toward the streetside in the action area.

**COMPLY**    **YES** \_\_\_ **NO** \_\_\_

**CABINET #8**

**Dimensions** – 19”W x 54”H x 10”D

**Location** – Streetside, forward of Action Area

**Shelving** – None

**Additional Instructions** – Install three (3) horizontal unistrut evenly spaced on the back wall for three (3) vertical adjustable dividers. Two (2) 1” adjustable restraining straps with quick release buckles shall be installed *exact location to be determined at pre-construction meeting.*

**COMPLY**    **YES**    **NO**

**CABINET #9 – Radio Cabinet**

**Dimensions** – 8”W x 54”H x 10”D

**Location** – Center forward, behind the attendant seat.

**Shelving** – None

**Door(s)** – Aluminum, hinged door with a twist/slam latch.

**Additional Instructions** – This cabinet is intended for radio component storage and shall be supplied with access to power component panel. Antenna cables shall terminate in this cabinet. Install a plywood slide out panel on the forward wall for radio installation with a protective cover over the radio terminal block located in this cabinet. Allow enough wire for slide out. Install Blue Sea System terminal block #2104 and #2304 in this cabinet.

**COMPLY**    **YES**    **NO**

**CABINET #10**

**Dimensions** – 24.5”W x 14”H x 10.75”D

**Location** – Curbside, rear

**Shelving** – None

**Door(s)** – Hinged clear polycarbonate with gas shock lift system and twist "slam" latch and extruded aluminum door pulls

**Additional Instructions** – None

**COMPLY**    **YES**    **NO**

**CABINET #11**

**Dimensions** – 24.5”W x 14”H x 10.75”D

**Location** – Curbside, center

**Shelving** – None

**Door(s)** – Hinged clear polycarbonate with gas shock lift system and twist "slam" latch and extruded aluminum door pulls

**Additional Instructions** – None

**COMPLY**    **YES**    **NO**

**CABINET #12**

**Dimensions** – 24.5"W x 14"H x 10.75"D

**Location** – Curbside, forward

**Shelving** – None

**Door(s)** – Hinged clear polycarbonate with gas shock lift system and twist "slam" latch and extruded aluminum door pulls

**Additional Instructions** – None

COMPLY	YES	NO
--------	-----	----

**CABINET #13 – Squad Bench with Storage**

**Dimensions** – Bench: 65.5"W x 18.75"H x 22"D

Storage: 32"W x 8.125"H x 22"D (fore)

33.5"W x 16"H x 22"D (aft)

**Location** – Curbside

**Shelving** – None

**Door(s)** – Hinged aluminum bench lid, with 3" high-density foam padding covered with seamless Vinyl Naugaform formfit 2 shall provide access to the storage area. It shall have a 1.5" overhang, an automatic hold-open device. The pad shall be removable.

**Additional Instructions** – The squad bench back and/or head pads shall have 1" high density foam padding covered with seamless Vinyl Naugaform formfit 2. Three (3) sets of seatbelts shall be installed on the bench and set up for use with sit-up or stretcher patients. The squad bench base to be formed from aluminum and securely anchored to sub-floor. The forward end of the bench shall have a Bench Restraint Bar. A drop-in sharps and waste shall be installed on the forward end of the squad bench and accessible thru a curbside hinged acrylic door.

An oxygen outlet, and timer shall be located just below the head pad at the forward end of the bench near the curbside door. The bottom and sides of the storage area shall be lined with indoor/outdoor carpet.

COMPLY	YES	NO
--------	-----	----

**CABINET #14**

**Dimensions** – 22.75"W x 16.5"H x 24.125"D

**Location** – Front, upper right

**Shelving** – None

**Door(s)** – None

**Additional Instructions** – This cabinet shall house the heating/air conditioning unit. A 12" loop shall be provided for all wiring.

COMPLY	YES	NO
--------	-----	----

**CABINET #15 – Electrical Cabinet**

**Dimensions** – 39.75"W x 13"H x 10"D

**Location** – Front center, above the pass-thru area

**Shelving** – None

**Door(s)** – Aluminum, hinged, swing up door with a hold-open device, a non-keyed quarter turn slotted latch, and an automatic compartment light.

**Additional Instructions** – This cabinet shall house the electrical component module.

COMPLY	YES	NO
--------	-----	----

**CABINET #16**

**Dimensions** – 20.75”W x 32”H x 12”D

**Location** – Streetside, forward of Action Area

**Shelving** – Two (2) adjustable

**Door(s)** – Webbed netting with three (3) quick release buckles

**Additional Instructions** – One (1) 110V AC outlet shall be installed 17” up on the back wall below the upper shelf.

**COMPLY**    **YES**    **NO**

**CABINET #17 – Drawers**

**Dimensions** – 15.25”W x 7.75”H x 24.125”D

**Location** – Front, right center

**Shelving** – None

**Door(s)** – None

**Additional Instructions** – Shall be three (3) 13”W x 5”H x 19”D metal drawers. Each drawer shall operate on 18” slides rated at 300 lbs. per set and have a gas shock hold open/closed device to ensure drawers do not accidentally open or close during operation of the vehicle. Drawers shall be formed of 16 ga. steel welded construction with an automotive gray enamel finish, and formed structural support on the sides and front of drawers. Each drawer shall have machine stamped divider supports along the side for at least two (2) dividers per drawer with two (2) adjustable dividers provided with each drawer.

**COMPLY**    **YES**    **NO**

**CABINET #18**

**Dimensions** – 22.75”W x 38”H x 24.125”D

**Location** – Front, right lower

**Shelving** – One (1) adjustable

**Door** – Webbed netting with three (3) quick release buckles

**Additional Instructions** – This cabinet shall be accessible from the outside via external Compartment #6 with one (1) adjustable shelf. The shelf shall have a 2” lip formed up on the interior side and 1” x 1” lip down on the exterior side. The shelf shall be installed 21” from the floor. Two (2) 110VAC outlets shall be installed in the back wall. One (1) Streamlight light box, (Orange 20WS) #45102, and charging bracket shall be horizontally mounted in the upper center portion of the forward wall. The 12V bracket shall be wired battery hot.

**COMPLY**    **YES**    **NO**

**2.11A**

**SIDE DOORSTEP**

A recessed curbside side doorstep shall be provided which is 11.5” deep x 28” wide. There shall be a drain hole and an open grate step plate which is removable for cleaning purposes. Polished aluminum diamond plate kick panel will be installed on the sides and face of doorstep.

**COMPLY**    **YES**    **NO**

**2.13X**

**CAB TO MODULE PASSAGE**

Shall be a pass-thru measuring 17"W x 17"H.

**COMPLY**    **YES**    **NO**

**2.14A**

**WHEELWELL LINERS**

Shall be installed in the wheel wells over the rear wheels. The liners shall be formed aluminum.

**COMPLY**    **YES**    **NO**

**2.15**

**ELECTROLYSIS PREVENTION**

All external materials and fasteners shall be selected to prevent electrolysis and corrosion due to dissimilar materials and exposure to the elements. The Module shall be painted before any exterior items (hinges, latches, door hold opens, etc.) are installed to provide an isolating film between dissimilar materials. Module body shall be properly grounded to avoid the conditions which may allow electrolysis to occur.

**COMPLY**    **YES**    **NO**

### **3 COATINGS AND FINISHES**

#### **3.01 MODULE FINISH PREPARATION**

The module shall be seam sealed and all imperfections on aluminum surfaces of module shall be sanded smooth. The entire exterior shall be mechanically etched and washed with wax and grease remover to ensure proper primer and paint adhesion.

**COMPLY** YES NO

#### **3.02 MODULE PRIMER**

Module shall be primed with urethane primer prior to applying the finish coat of acrylic urethane paint.

**COMPLY** YES NO

#### **3.03 PAINT TYPE**

Shall be "Sherwin Williams" acrylic urethane.

**COMPLY** YES NO

#### **3.04 COLOR SCHEME**

Base color: Red (#2467) *Color to be determined at pre-construction meeting.*

Stripe #1      Color:      Red  
                  Width:      6"  
                  Style:      Beltline  
                  Material:     Scotchlite  
                  Location:     Sides of module, rub rail up

Stripe #2      Color:      Red and Gold  
                  Width:      4"  
                  Style:      Diagonal stripes alternating between the two colors  
                  Material:     Scotchlite  
                  Location:     Rear of Module, Including rear passage doors

**COMPLY** YES NO

#### **3.06X COMPARTMENT FINISH**

All compartments shall be sanded, etched, washed, primed, and painted with gray polyurethane material.

**COMPLY** YES NO

#### **3.07 INTERIOR CABINETRY FINISH**

All interior cabinetry shall be sanded, etched, washed, primed, and painted light gray (#G8-51748).

**COMPLY** YES NO

#### **3.08 MODULE UPHOLSTERY**

Shall be Vinyl Naugaform formfit 2 / Dove Gray, and be seamless.

**COMPLY** YES NO

**3.09 MODULE FLOORING MATERIAL**

Shall be Genome (#TFM2702) Altro Transflor Meta Slip-Retardant Sheet flooring providing durability, ease of maintenance and stain resistance. It shall contain a high concentration of microscopic aluminum oxide particles and colored quartz crystals suspended throughout the thickness with silicon carbide grains in the entire wear surface for slip-retardant performance. It shall have a bacteriostat incorporated to give flooring excellent anti-bacterial activity and an overall thickness of 0.11" nominal. Flooring shall be manufactured for Wear Resistance to meet ASTM C 501, indentation resistance in accordance with ASTM F 1303 and ASTM F 970, Grade 1 standards, shall meet ASTM D 2047 Slip Retardant, ASTM F 970 Static Load, ASTM E648, CMVSS, FMVSS 302, CAN ULC S102.2 Fire Data Tests. It shall be seamless and cove up the sidewalls a minimum of 5" as a seal.

An insulated floor shall be installed over the subfloor. It shall be constructed with square tubing (0.75" x 0.75" x 0.125"), filled with 0.75" thick polystyrene foam insulation, and covered with 0.125" aluminum sheet. (Section 2.04 related)

**COMPLY** YES NO

**3.10 COMPARTMENT LINING**

Compartment floors shall be lined with light gray Mate'flex material and all shelves with easy sweep mat.

**COMPLY** YES NO

**3.11 CABINET LINING**

Interior cabinet shelves shall be lined with easy sweep mats which are removable for ease of cleaning.

**COMPLY** YES NO

**3.12 SURFACES AND FINISHES**

All surfaces and finishes shall be impervious to soap, disinfectants, and water, to permit washing and sanitizing.

**COMPLY** YES NO

**3.13 AUTOMOTIVE UNDERCOATING SEAL**

The entire chassis and module underbody (excluding drive shafts, wheels, exhaust system, and lubrication fittings, per manufacturer's specifications) shall be sprayed with undercoating for reduced corrosion and added sound deadening.

**COMPLY** YES NO

## **4            MODULE EXTERIOR**

### **4.01A        STEP/BUMPER**

Shall be a welded construction of 3" x 3" x 0.375" aluminum angle and 2" x 0.250" plate and shall be trimmed by 0.125" bright aluminum diamond plate. The entire top shall be non-skid diamond grip strut and provide a 7" step. The outermost 12" of each end shall be angled to prevent dragging of corners in high angle of approach/departure areas. Diamond plate shall be formed on front and rear edges for channel type strength. The bumper shall be bolted directly to the chassis frame using high strength Grade 5 bolts. Bumper shall be easily removable and replaceable in case of damage. Step/bumper to be designed to accommodate a "one-person style" cot.

**COMPLY        YES        NO**

### **4.02            RUB RAILS**

Shall be bright finished extruded aluminum of a double channel design and 0.125" wall thickness for maximum strength. Rub rails shall be 2.5" high x 0.75" wide and run along the lower edge of body, interrupted only by wheel well opening.

**COMPLY        YES        NO**

### **4.03            FENDER RINGS**

Shall be installed on the module. They shall be bright polished aluminum with a rounded outer edge following the full contour of the wheel well opening.

**COMPLY        YES        NO**

### **4.04X         DRIP RAILS**

Shall be extruded, anodized aluminum running full length of module at top of sides, front, rear and over each exterior compartment. Drip rails shall be installed with bonding tape that will withstand exposure to the elements. They shall be installed to allow easy replacement without the use of mechanical type fasteners, and finished with 45 degree angled ends to avoid hooking materials which brush against the vehicle causing damage. A "V" strip shall be installed on the roof over the rear doors.

**COMPLY        YES        NO**

### **4.05            ROCK GUARDS**

Made of bright aluminum diamond plate shall cover front module corners 24" up from bottom of body, 2.5" down the side of body, and 15" across the front of the body.

**COMPLY        YES        NO**

### **4.06            REAR STEP GUARD**

Made of bright aluminum diamond plate shall extend from top of rear step to the bottom of rear doors, full width formed around corners, and 2.5" forward on each side.

**COMPLY        YES        NO**

### **4.08X         MODULE WINDOWS**

Shall have black anodized aluminum frames, rubber gaskets, and be attached with screws for ease of replacement. All module windows to be very dark tinted. The module door windows shall be 18.75" x 18.75" with sliding glass, a positive catch, and a screen.

**COMPLY        YES        NO**

**4.16A**

**LICENSE PLATE HOLDER**

A recessed license plate holder with dual lights shall be installed below rear doors.

**COMPLY**    **YES** \_\_\_ **NO** \_\_\_

**4.17X**

**STEP, ELECTRIC**

One (1) step shall be provided and mounted under the curbside door. It shall be a Kwiikee Model and shall be wired to open and close with the side door. An Auto/Off switch shall be installed just inside the curbside door to disable automatic operation. An indicator light, located on the driver's console, shall flash when the step is extended.

**COMPLY**    **YES** \_\_\_ **NO** \_\_\_

**5** **MODULE INTERIOR**

All interior hangers, supports, fasteners, latches, and hinges shall be of a near flush type design when not in use. The patient compartment shall be free of sharp projections. Exposed edges and corners shall be broken with a radius, chamfer, or covered with aluminum trim, plastic molding, or rubber edging.

**COMPLY**  **YES**  **NO**

**5.01** **UPPER WALL COVERING**

Shall be covered with light gray heavy grade 0.125" ABS vinyl. All panels shall be attached with a Norton very high bond system.

**COMPLY**  **YES**  **NO**

**5.02** **HEADLINER**

Shall be fiberglass reinforced 0.080" "Glasboard" with textured white surface.

**COMPLY**  **YES**  **NO**

**5.03** **MODULE ACCESS OPENING BUMPERS**

Shall be located over all module access openings and shall be made with 1" high density foam covered with heavy-duty vinyl matching upholstery.

**COMPLY**  **YES**  **NO**

**5.04X** **LOWER WALL COVERING**

The squad bench sides and lower portion of the streetside wall shall be covered with polished stainless steel. Stainless steel shall extend from the roll up flooring, on the rear curbside wall to the squad bench.

**COMPLY**  **YES**  **NO**

**5.05A** **GRAB RAIL**

One (1) 90" L x 1.250" D stainless steel grab rail with three (3) support brackets shall be securely mounted to roof structural framing running through the centerline.

**COMPLY**  **YES**  **NO**

**5.06** **ACCESS DOOR GRAB RAILS**

Each module access door shall have a 1.250" stainless steel grab handle. The rear doors shall have "L" style handles which may also be used as entry assist rails. The side door shall have a 12" horizontal bar.

**COMPLY**  **YES**  **NO**

**5.07X** **IV HANGERS**

One (1) retractable dual IV hanger with stabilizers shall be near flush mounted in the ceiling over the primary cot at chest level.

**COMPLY**  **YES**  **NO**

**5.08X** **COT MOUNT**

A Ferno-Washington 175 center position cot fastener shall be installed for a Ferno #93H series cot and provide an aisle between it and the squad bench. It shall provide crash-worthy stability.

**COMPLY**  **YES**  **NO**

**5.09A**

**COT PLATES**

Two (2) bright finish stainless steel 7" wide cot plates, which shall run from the rear door to the forward wheel position. The cot plates shall be attached with a polyurethane adhesive sealant system.

**COMPLY** YES \_\_\_ NO \_\_\_

**5.10X**

**ATTENDANT SEAT**

A rear facing Guardian (Serenity Safety Products) infant carrier/child safety seat, upholstered with heavy grade vinyl shall be located at the head of the cot position and provide easy access to all action wall controls and outlets, and to the patient. Seat shall swivel and be securely anchored on a pedestal base. The clearance from the head of the cot to the front of the seat fully adjusted toward cot shall be 12". The seat shall be installed with a 4-point harness over left shoulder. The attendant seat storage bracket shall be installed 12" aft of curbside forward wall and 24" above floor with reinforced wall.

**COMPLY** YES \_\_\_ NO \_\_\_

**5.11A**

**OXYGEN SYSTEM**

The entire oxygen system to be assembled with certified Oxygen hose (1000 PSI burst strength) with brass fittings, pressure tested, and certified. Ohio type outlets shall be installed in the following locations: one (1) in action area, one (1) in ceiling above primary patient, and one (1) in the curbside wall above the squad bench. The Electric Oxygen system shall be controlled through an electric solenoid with manual bypass, have an LED content display, and audible low pressure alarm. One (1) OXYGEN tank wrench shall be included.

**COMPLY** YES \_\_\_ NO \_\_\_

**5.13X**

**SUCTION COLLECTOR**

One (1) "*Customer Supplied*" portable S-SCORT 2310 BV VX-2 suction unit and charging bracket shall be installed in Compartment #6, and one (1) S-SCORT suction unit shall be provided and installed in Action area.

**COMPLY** YES \_\_\_ NO \_\_\_

**5.14X**

**SEATBELTS**

Shall be DOT certified and shall be installed with all passenger seating. Three (3) sets shall be installed on the squad bench and set up for use with sit-up or stretcher patients. The attendant seat, and streetside attendant seat shall have 4-point harness, the CPR seat shall have a single seat belt.

**COMPLY** YES \_\_\_ NO \_\_\_

**5.16**

**INSULATION**

The module sides, ends, roof, doors and floor shall be insulated to enhance the interior environment and to prevent heat, cold and external noise from entering the module. The insulation shall be a non-settling polystyrene foam plank material of 2", 1.5" or 0.75" thickness depending upon location and available space.

In addition, a Norton VHB (very high bond) system shall be utilized on sidewalls and roof to provide a thermal and noise break between the outside skin and structural members.

**COMPLY** YES \_\_\_ NO \_\_\_

- 5.17 MODULE CLIMATE CONTROL SYSTEM**  
 Shall incorporate a combination heating/air conditioning unit with 36,000 BTU heating and 32,000 BTU cooling. The unit shall have a 580CFM fan and have controls independent of the cab system. The module system shall be controllable by a digital thermostat located on the action wall.  
 A condenser shall be skirt mounted under the chassis.
- COMPLY**    **YES** \_\_\_ **NO** \_\_\_
- 5.18 EXTERNAL AIR INTAKE**  
 To supplement heated or cooled air with fresh air, an external air intake shall be provided on the side of the module. The intake shall consist of four (4) stamped louvers above the side passage door. The interior chamber of the intake shall be made of aluminum and formed to prevent the collection of moisture.
- COMPLY**    **YES** \_\_\_ **NO** \_\_\_
- 5.19 AIR RETURN**  
 Designed into the front right bulkhead wall shall be an air return which runs from the floor level to the heater A/C unit. The air return vent shall have formed louvers.
- COMPLY**    **YES** \_\_\_ **NO** \_\_\_
- 5.20X EXHAUST VENT**  
 A motor-powered exhaust vent shall be located in the streetside and curbside rear corners of the module.
- COMPLY**    **YES** \_\_\_ **NO** \_\_\_
- 5.21X NO SMOKING/FASTEN SEAT BELTS SIGNS**  
 Two (2) "No Smoking/Fasten Seat Belt" signs shall be installed - one (1) each for driver's area and module.  
 A "TURN OXYGEN OFF" sign shall be provided in the action area with 1.25" white letters on a red background. the sign shall be approximately 10"W x 5"H.
- COMPLY**    **YES** \_\_\_ **NO** \_\_\_
- 5.23A WHITE MARKER BOARD**  
 Shall be installed on the streetside wall aft of the CPR seat.
- COMPLY**    **YES** \_\_\_ **NO** \_\_\_
- 5.26X SHARPS/HAZARDOUS WASTE CONTAINERS**  
 Two (2) Sharps Containers and two (2) waste containers shall be installed: one (1) Becton-Dickinson, 8.2 qt. Sharps container and one (1) 7 qt. waste container located in the action area, and forward end of the squad bench a hinged cover shall be installed over the sharps and waste. The action area lid shall be red with a "BIO HAZARD" label.
- COMPLY**    **YES** \_\_\_ **NO** \_\_\_

**5.28X REFRIGERATOR/COOL CABINET**

A Waeco CR-50, 110V AC/12V refrigerator, with left hand hinge, shall be provided and installed in the forward portion of Compartment #2. There shall be vents to provide adequate air flow to the cooling coils. It shall be wired to be on with the Module or when shoreline is plugged in.

**COMPLY** YES \_\_\_ NO \_\_\_

**5.32X GLOVE BUTLERS**

Two (2) Glove Butlers shall be installed on the driver's console. (Section 1.02.12X related)

**COMPLY** YES \_\_\_ NO \_\_\_

**5.34X BENCH RESTRAINT**

Shall be provided and mounted on the forward end of the squad bench. The end bar shall be 1.25" satin stainless steel tubing with 3" radius bends. Bar shall be 15" across and 21" high. The bar shall be mounted in 1.25" satin finish stainless steel post bases which are bolted to the bench in eight locations. Install padding on the upper horizontal bar.

**COMPLY** YES \_\_\_ NO \_\_\_

**6 ELECTRICAL**

All added body and chassis electrical equipment shall be served by circuits separate and distinct from the vehicle chassis circuits. All vehicle wiring shall be copper and conform to all SAE J1128 requirements. The wiring shall be colored, numbered, and function coded every 3" for permanent identification and correspond with the vehicle schematics. Solderless, insulated connectors shall be used. Wiring panduit shall be used in power component module to ensure air circulation throughout power component wiring. The wiring shall be routed in conduit or looms and wiring shall be secured to the underbody or frame with insulated metal cable straps. All power distribution cabling shall be covered with a protective split loom. Where wiring passes over the exhaust, a heat shield shall be installed. Wiring and electrical components shall not be placed under or behind the cab seats. The power component module shall be equipped with positive locking plugs to provide easy disconnect for remount or repair of body. All wiring devices, switches, outlets, etc., except circuit breakers, shall be rated to carry 125% of the maximum ampere load for which the circuit is protected.

**COMPLY** YES NO

**6.01 OVERLOAD PROTECTION DEVICES**

Body electrical wiring shall utilize overload protective devices of the automatic reset, circuit breaker type. In addition, one (1) single pole, 20 amp circuit breaker shall be provided for future use. The circuit breakers, relays, and other electrical items shall be located in the enclosed power component module.

**COMPLY** YES NO

**6.02 VOLTMETER**

Shall be an OEM component installed in dash. The scale shall be from 8 to 18 V.D.C. (Section 1.01.08 related)

**COMPLY** YES NO

**6.04 IGNITION CONTROL**

Chassis electrical circuits will be controlled by ignition switch as provided by the OEM chassis manufacturer. The auxiliary chassis related functions shall be powered by one (1) 100 amp continuous duty solenoid (rear heater/air conditioner, siren, spot light, etc.).

**COMPLY** YES NO

**6.05 MODULE POWER**

Shall be controlled by a console-mounted switch which activates one (1) 100 amp continuous duty solenoid located in the power component module.

**COMPLY** YES NO

**6.06 WIRING ACCESS**

All cabinets at ceiling level shall have removable backs which are screwed in place for access to harnesses. Stack cabinets shall have removable panels for wiring and hose access.

**COMPLY** YES NO

6.07

**BACK-UP ALARM**

Shall be OEM installed and have a momentary disable switch in the driver's console. If disabled while in reverse, backup alarm shall automatically reset when shifted out of reverse.

**COMPLY** YES NO

6.08

**SERVICE LOOP**

A 6" service loop of wire or harness shall be provided at all electrical components, terminals, and connection points.

**COMPLY** YES NO

6.09X

**DRIVER'S CONSOLE**

Made of formed aluminum, shall be installed overhead. This panel shall include the following:

**SWITCHES**

- |                        |                     |
|------------------------|---------------------|
| 1. Module Disconnect   | 11. Left Scene      |
| 2. Emergency Master    | 12. Right Scene     |
| 3. Light Bar - Red     | 13. Rear Scene      |
| 4. Light Bar - White   | 14. Spare           |
| 5. Flashers            | 15. Back-Up Disable |
| 6. Opticom             |                     |
| 7. Flashing Headlights |                     |
| 8. Horn/Siren          |                     |

**OTHER:**

Red Combined Door/Compartment Open Warning Light  
Red Electric Step Warning Light  
Siren

**COMPLY** YES NO

6.09.01X

**MAP BOX AND MAP HOLDER**

A floor mounted black powder coated map box with dividers and top surface covered with stainless steel shall be installed. Map box shall have four (4) 12V receptacles mounted on the top front center. Two (2) stainless steel glove butlers shall be mounted to the front of the console. A MDT shall be mounted to front/center.

A vertical black powder coated map book holder shall be mounted on the rear wall below the pass through and extend to the floor. It shall be sized to hold 2" binders at a forward angle.

*Final details to be determined at pre-construction meeting.*

**COMPLY** YES NO

6.10

**SWITCHES**

Shall be lighted rocker type and permanently marked by function. One (1) spare switch shall be provided.

**COMPLY** YES NO

6.11X

**MAP LIGHT**

A map light with a 11" flexible neck shall be mounted in the cab area on the passenger side of the console.

**COMPLY** YES NO

**6.12X DOOR AJAR WARNING LIGHT(S)**

A red flashing light installed in the driver’s console shall be provided to warn driver of open passenger access doors and each open exterior compartment door.  
An additional red flashing light shall be installed in the driver’s console to alert driver that electrical step is extended.

**COMPLY** YES \_\_\_ NO \_\_\_

**6.13X ATTENDANT CONTROL PANEL**

Shall be located in the action area. Panel shall include one (1) row of switches, as follows:

- |               |              |          |
|---------------|--------------|----------|
| 1. Dome Hi/Lo | 3. Aspirator | 5. Blank |
| 2. Dome Hi/Lo | 4. Vent      | 6. Blank |

A separate climate fan switch and digital thermostat shall be located adjacent to the attendant control panel.

**COMPLY** YES \_\_\_ NO \_\_\_

**6.14 ACTION WALL AREA LIGHTING**

The entire action wall area shall be lighted utilizing a Thin-Lite Model #612 light with 12VDC dual 11” fluorescent bulbs.

**COMPLY** YES \_\_\_ NO \_\_\_

**6.15 STEPLIGHTS**

The side access door step well shall have a light installed.

**COMPLY** YES \_\_\_ NO \_\_\_

**6.16B MODULE INTERIOR LIGHTING**

Shall be designed to keep vehicle height to a minimum without interfering with the structural integrity of the roof. Module interior lighting shall consist of eight (8) dual intensity, Whelen #80COEHCR, recessed lights - one (1) bank of four (4) lights shall be positioned toward streetside and four (4) lights toward curbside. There shall be a switch for each bank of lights on the action wall for Hi/Lo or Off. The four (4) lights on the squad bench side shall be automatically activated when the rear or side doors are opened. Three (3) fluorescent lights shall be center mounted one (1) near the front, one (1) near the rear of the module, and one (1) center of module. The fluorescent lights shall be controlled by an On/Off switch on the action wall and a timer switch mounted inside the curbside passage door. The timer switch shall be wired to continuous battery power.

**COMPLY** YES \_\_\_ NO \_\_\_

**6.17X BASIC EXTERIOR LIGHTING**

Shall include headlights, parking lights, directional signal lights, tail and stop lights, license plate light, back-up lights, side marker lights, hazard and warning lights, and clearance lights as required by FMVSS 108. Rear, stop and turn lights shall be Truck-Lite LED. Back-up lights shall be Truck-Lite sealed lights Side marker lights shall be "Truck-Lite" LED Model 18. Front and rear module clearance lights shall be an integral part of the light bar system.

Two (2) Whelen 600 Series turn lamps Model #60A00TAR with 6EFlange shall be installed on the rear of the module, 14” above the rear kick panel, one (1) each side.

**COMPLY** YES \_\_\_ NO \_\_\_



**6.21X**

**110 VAC/SHORELINE CIRCUIT BOX**

Utility power shall be furnished with 110 VAC shorepower via four (4) Kussmaul 20 amp Super Auto-Ejects, and a Kussmaul #091-94-12E, battery condition panel. Auto Ejects shall be installed two (2) on driver's side of vehicle and two (2) streetside rear, and distributed via a formed 0.125" aluminum power box recessed into the streetside front compartment. Power box shall be flush mounted so as to maximize compartment size. Shall have easily removable cover. The first shoreline shall provide power for the block heater and air compressor. The second shoreline shall provide power for the 110V AC outlets and other 110V AC items.

The box shall contain three (3) 110 VAC outlets for power supply to:

- Interior/exterior 110 VAC power (receptacles, IV warmer, etc.), GFI protected
- Block heater
- Battery charger

Two (2) breakers shall be installed, one for protection of the block heater receptacle, the other for protection of the other 120 VAC receptacles.

Five (5) 110 VAC duplex grounded outlets shall be mounted, one (1) in the Action Area, one (1) in Cabinet #16, one (1) in Compartment #4, and two (2) in Cabinet #18.

**COMPLY**  **YES**  **NO**

**6.22X**

**BATTERY GROUNDS**

In addition to OEM grounds, the following ground circuits shall be added: 4 ga. ground cable from module power component panel to frame, two (2) braided ground straps from the module body to the chassis to reduce RF interference.

Starter and alternator shall have OEM grounds to maintain warranty. In addition, a ground cable shall run from OEM grounding point on chassis directly to chassis batteries.

**COMPLY**  **YES**  **NO**

**6.23X**

**BATTERY CHARGER**

A 50 amp battery charger/conditioner shall installed in Radio Cabinet #9.

**COMPLY**  **YES**  **NO**

**6.24X**

**BATTERY MODIFICATIONS**

Utilize three (3) OEM batteries.

**COMPLY**  **YES**  **NO**

**6.25X**

**12 VOLT RECEPTACLES**

Five (5) 12 volt, 20 amp cigar type receptacles shall be provided. One (1) in the Action Area, and four (4) in driver's console. Receptacles shall be powered continuously. *Final installation to be determined at pre-construction meeting.*

**COMPLY**  **YES**  **NO**

**6.26X**

**COMPARTMENT LIGHTING**

LED FlexLite shall be installed in all outside compartments and shall be activated by a door switch.

**COMPLY**  **YES**  **NO**

6.27

**EXTERIOR DOOR SWITCHES**

Shall be 1/2" door switches. All door switch terminals shall have Heatshrink installed.

**COMPLY** YES NO

**6.30X**

**EMERGENCY WARNING SYSTEMS**

Emergency lights shall remain "on" at roadside scene. Headlight flashers shall be configured to turn off when parking brake is applied. An override switch shall be located on the driver's console.

**COMPLY** YES NO

**6.30.01X**

**FRONT LIGHTBAR**

Shall be a 94" Whelen #4500 Plus Lightbar.

Pattern from curbside to streetside as follows: Red lens Red Super LED flasher, Red lens Red Super LED flasher, Clear lens Clear Super LED flasher, Clear lens Clear Super LED flasher, #795H Opticom, Clear lens Clear Super LED flasher, Clear lens Clear Super LED flasher, Red lens Red Super LED flasher, Red lens Red Super LED flasher.

The light bar shall be recess mounted with horizontal plane of the roof, and protrude no more than 1/2" beyond the vertical plane of the front and sides of the module. The clearance lights shall be an integral part of the light bar.

**COMPLY** YES NO

**6.30.02X**

**REAR LIGHTBAR**

Shall be a 94" Whelen #4500 Plus Lightbar.

Pattern from curbside to streetside as follows: Red lens Red Super LED flasher, Red lens Red Super LED flasher, 17 Degree Angled Scenelight, Amber lens Amber LED Brake, 17 Degree Angled Scenelight, Red lens Red Super LED flasher, Red lens Red Super LED flasher.

The lightbar shall be recess mounted with horizontal plane of the roof, and protrude no more than 1/2" beyond the vertical plane of the front and sides of the module. The LED clearance lights shall be an integral part of the light bar.

The rear doors or placing vehicle in "Reverse" shall activate the rear scenelights.

**COMPLY** YES NO

**6.30.03X**

**FLASHERS**

Six (6) Red lens Red Super LED flashers shall be mounted two (2) on each side of module in upper corners and two (2) on the rear of the vehicle just below the light bar. Lights shall be Whelen #90RR5FRR.

Two (2) Amber lens Amber Super LED flashers shall be mounted on the rear of the vehicle at window height, and be wired to go "off" with the parking brake. Lights shall be Whelen #90AA5FAR.

**COMPLY** YES NO

**6.30.04**

**SCENELIGHTS**

Four (4) parabolic scenelights, mounted two (2) on each side, shall be installed. The scenelights shall be flush mounted and have internal optics to deflect the light down at 8-32 degree angles. The lights shall be Whelen Model #90E000ZR Opti-Scene lights. The side door shall activate the curbside scenelights.

**COMPLY** YES NO

- 6.30.05A SPOTLIGHT**  
 Shall be a 300,000cp Questar roof mounted spot light, installed in the center of the cab roof.  
**COMPLY YES NO**
- 6.30.06X INTERSECTION LIGHTS**  
 Four (4) Intersection lights shall be installed, one (1) on each fender and one (1) above each wheel well. Rear lights shall also function as turn indicators. The lights on the fenders shall be Whelen #602000\*U Clear lens Strobe, and lights above the wheel well shall be Whelen #70R02FRR Red lens Red Super LED with 7EFLANGE.  
**COMPLY YES NO**
- 6.30.07E HEADLIGHT FLASHER UNIT**  
 Shall be a ETM headlight flasher unit.  
**COMPLY YES NO**
- 6.30.08B GRILLE LIGHTS**  
 Shall be two (2) Whelen #70R02FRR Red lens Red Super LED lights with 7EFLANGE.  
**COMPLY YES NO**
- 6.30.09X SIREN**  
 Shall be Whelen 295HFS2X, dual amp 200 watt, with second amplifier kit, Model #295HFSDA.  
**COMPLY YES NO**
- 6.30.10X SIREN SPEAKERS**  
 Shall be a Cast Products SH-1011 "Bumper Mount" with two 100 watt speaker drivers.  
**COMPLY YES NO**
- 6.30.11 SEQUENTIAL SWITCHING SYSTEM**  
 A Kussmaul sequential switching system shall be installed to control emergency lighting.  
**COMPLY YES NO**
- 6.30.14X TRAFFIC ADVISOR**  
 Shall be a Whelen Dominator Plus series "Traffic Advisor" 48" Long Amber stick, Model TAM8348.  
**COMPLY YES NO**
- 6.40D ELECTRIC DOOR LOCKS**  
 Shall be installed on all compartment and module access doors. A "Hidden Switch" shall be installed under the license plate on the rear of the module.  
**COMPLY YES NO**

**6.43X**

**GROUND LIGHTS**

Lights shall be installed at each cab and module access door, controlled to illuminate when door is opened.

Five (5) additional lights shall be installed. One (1) under the front bumper, one (1) under the right rear compartment, one (1) under curbside forward compartment, and two (2) on the streetside under compartments. Lights shall activate with parking lights and on neutral safety.

**COMPLY**    **YES** \_\_\_ **NO** \_\_\_

**6.46X**

**EXTERIOR AUDIO/VISUAL EQUIPMENT**

A Back-Up camera with a video screen in the rear view mirror shall be installed. It shall be an AudioVox AOM28MR Rear View Observation Mirror System. Rear camera shall be installed recessed above the rear doors.

**COMPLY**    **YES** \_\_\_ **NO** \_\_\_

**7 SUPPORTING DOCUMENTATION**

**7.01X OWNERS MANUAL**

Shall be provided with vehicle and consists of the following items:

1. Chassis owner information packet.
2. Extra set of keys.
3. Lifetime module warranty.
4. Factory warranty on Chassis.
5. 7 Year/75,000 mile limited electrical warranty.
6. 2 Year/30,000 mile Conversion Warranty.
7. 5 Year Paint Warranty.
8. Module remount engineering check list.
9. Climate control information and warranty.
10. Main schematic.
11. Electrical equipment amperage ratings.
12. Wire coding list.
13. Schematics for standard system: (As Built)
  - Driver switch console
  - Attendant switch console
  - Climate control system
  - Dual battery system
  - Module harness routing
  - Interior and exterior lights
14. Operations manual
15. Schematics for individual options.
16. Warranty and parts list for light bar, etc.
17. Parts List

**COMPLY** YES NO

**7.02X CHASSIS MANUFACTURER'S MANUALS**

One (1) set of OEM Owners/Chassis Manuals and CD shall be provided.

**COMPLY** YES NO

**7.03X LABELS/PLATES**

An engraved label shall be installed in the cab with the overall height and weight information. *Location to be determined at pre-construction meeting.*

**COMPLY** YES NO

**8 MISCELLANEOUS MEDICAL/RESCUE EQUIPMENT**

**8.01 LOOSE EQUIPMENT**

The following equipment shall be shipped loose with the vehicle:

- 1. Touch Up Paint
- 2. Spare Tire & Wheel

COMPLY	YES	NO
--------	-----	----

**8.02 CUSTOMER SUPPLIED EQUIPMENT**

The customer shall provide the following equipment and have delivered to manufacturer:

- 1. Four (4) SCBA brackets
- 2. Fire Tools; one (1) fire axe, one (1) Hooligan tool, one (1) bolt cutter
- 3. One (1) Suction Unit #2310B SSCOR with charger mounting bracket

COMPLY	YES	NO
--------	-----	----

\* \* \* \* \*