

**DETAILED SPECIFICATIONS
FOR
BANNOCK COUNTY AMBULANCE DISTRICT
POCATELLO, IDAHO**

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.

COMPLY	YES	NO
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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 _____

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 (1) person from purchaser. Final Inspection meeting shall be for two (2) 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 Idaho Code 67-2807, “political subdivisions may enter into joint purchasing agreements with the state of Idaho or other political subdivisions and may participate in joint purchasing agreements through a joint purchase program established by any not-for-profit association of political subdivisions” or otherwise utilize this contract provided the public agency or agencies that awarded the original contract complied with all statutory notice and contracting requirements.

COMPLY **YES** **NO**

This bid shall remain open to additional purchases (Interlocal, Tag-On, Piggy Back) by this or other agencies for a period of three (3) years, with periodic cost adjustments based on actual manufacturer’s price increases.

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 _____

Pre-Build/ Inspection visit allowance
(One (1) Person for Pre-Build; two (2) People for Final Inspection) _____

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 _____ **#** _____

This bid shall remain open to additional purchases (Interlocal, Tag-On, Piggy Back) by this or other agencies for a period of three (3) years, with periodic cost adjustments based on actual manufacturer's price increases.

1 CHASSIS

1.01 OEM CHASSIS

- 2018 Ram 4500, 4 x 4, ST, meeting all the specifications of Section 1.01.
- Provide alternate bid for 2018 Ford F-450, 4x4 XLT with equivalent options (see appendix A (9.1+) for detailed specification)
 - 3 year/36,000 mile Basic Limited Warranty
 - 5 year/100,000 mile Powertrain Limited Warranty
 - Special Emissions-Emergency Vehicle Fire Rescue Prep Package
 - Dual rear wheels
 - Provided by Braun Northwest

1.01.01 SPECIFIC RATINGS

- Drive – 4 x 4
- G.V.W.R. – 16,500 lbs.
- Wheelbase – 168.5"
- Cab to Axle – 84"
- Front Spring Capacity – 7,000 lbs.
- Rear Spring Capacity – 12,000 lbs.
- Front Axle – 7,000 lbs.
- Rear Axle – 12,000 lbs.
- Rear Differential – 4.10 ratio, Anti-Spin Differential Rear Axle

1.01.02 POWER TRAIN

- Engine
 - 6.7L I6 Cummins Turbo diesel, B-20 Bio Diesel capability
 - Diesel Emission Fluid (DEF) System
 - 5 years/100,000 mile warranty
 - External oil cooler
 - Factory diesel package
 - Diesel exhaust brake
 - Engine block heater (Cold Weather Group)
 - Heavy duty dry type air cleaner with flow restriction indicator
- Engine Cooling System
 - Heavy duty, closed-air, free-liquid state type
 - Coolant recovery system
- Transmission
 - Six (6) speeds Heavy Duty Automatic, AISIN AS69RC
 - Auxiliary transmission oil cooler
 - Electronic Shift on the Fly Transfer Case
- Exhaust System
 - System complies with Federal Motor Carrier Safety Regulations, Part 393.83
 - Suspended using three (3) hangers, excluding manifold attachment
 - Discharge at right rear side of module
 - Tailpipe shall not terminate within twelve (12) inches of the vertical axis of the fuel tank filler opening.

1.01.03 STEERING

- Power assisted
- Tilt steering wheel

- 1.01.04 SHOCK ABSORBERS/STABILIZER BARS**
- OEM Heavy-duty shock absorbers front and rear
 - OEM front and rear stabilizer bars
- 1.01.05 BRAKES**
- Anti-Lock, Four-Wheel Disc
- 1.01.06 TIRES AND WHEELS**
- Seven (7) OEM 225-70R-19.5G All Position Ft, Rr Traction
 - Seven (7) OEM 19.5" steel wheels
 - Spare tire and steel wheel shipped loose
- 1.01.07 ELECTRICAL**
- Alternators – OEM Dual 220 Amp each
 - Batteries – OEM Dual 730 CCA each
 - Electronic Monitoring Module
 - Voltage Monitoring Auto Idle Up System
- 1.01.08 INSTRUMENT PANEL AND CONTROLS**
- Gauges
 - Trip odometer
 - Speedometer
 - Voltmeter
 - Fuel
 - Coolant temperature
 - Oil pressure
 - Diesel engine warning lights
 - Tachometer
 - Engine Hour Meter
 - Temperature Gauge
 - Controls – Cruise
 - Audio – OEM AM/FM
- 1.01.09 CAB EXTERIOR**
- Trim Level – ST
 - Horn – OEM dual note electric
 - Windows – Tinted safety glass
 - Windshield wipers – Variable, Intermittent
 - Mirrors
 - Interior Day/Night rear view mirror
 - Two (2) black, trailer tow with convex
 - Supplemental signals and courtesy lamps
 - Power, heated glass
 - Bright front bumper and grille
 - Two (2) front tow eyes
 - Lighting
 - Aerodynamic halogen headlamps
 - Daytime running headlamps, low beam
 - Clearance lamps

- Fuel tank – OEM 52 Gallons

1.01.10 CAB INTERIOR

- Seats – OEM
 - Vinyl bench seat 40/20/40
 - Delete front center seat
 - Combination lap and shoulder harness
- Climate Control – OEM
 - Heavy duty, fresh air, high capacity heater/defroster
 - Dehumidifying air conditioning system
- Interior Upgrade Package
 - Cloth headliner
 - High-series door trim panels
 - Cloth sun visors
 - Black vinyl floor covering
 - Power windows & power door locks, with fob
- Lights and Convenience Group
 - Courtesy light switches on all doors
 - Warning chimes
 - Headlight-on audible alert
 - Illuminated entry

1.01.11 COLORS

- Exterior – White PW7
- Interior – Dark Slate/Medium Graystone

COMPLY	YES	NO
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1.02 CHASSIS MODIFICATIONS

The following modifications shall be made to the chassis by the manufacturer.

1.02.03 SIMULATORS/VALVE STEM EXTENDERS

Stainless steel wheel simulators shall be installed on all outer wheels, with braided valve stem extenders on all four rear wheels.

COMPLY	YES	NO
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1.02.04 EXHAUST HEAT SHIELDS

Shall be formed from 20 ga. galvanized sheet metal 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
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1.02.05 **RUNNING BOARDS WITH SPLASH GUARDS**
Running boards made of 0.125" diamond plate with full-length aluminum diamond plate as the step surface and integrated splash guards fore and aft shall be installed on both sides of the chassis. The running boards shall be flared toward the front corners of module, and the entire assemblies shall be securely mounted with stainless steel 1/4"-20 truss head bolts.

COMPLY **YES** **NO**

1.02012B **MAP BOX/DRIVER'S CONSOLE**
Shall be an integral part of the driver's console. (Section 6.09X related)

COMPLY **YES** **NO**

1.02.09 **MUD FLAPS**
Mud flaps with the manufacturer's logo on them shall be installed behind each rear wheel.

COMPLY **YES** **NO**

1.02.14A **SUSPENSION**
The OEM rear stabilizer bar shall be removed and a LiquidSpring suspension system shall be installed, with a kneeling feature to activate when the rear streetside patient compartment entrance door opens within 60 minutes of the chassis ignition being turned off. An override switch shall be provided on the curbside rear wall, accessible from rear curbside door. The LiquidSpring control panel shall be installed on the chassis dash to the left of the steering wheel.

COMPLY **YES** **NO**

1.02.21X **CHASSIS LIGHTING**
One dual map light with dual switches shall be provided and installed. They shall be aircraft type lights and provide separate switching for driver and passenger.

COMPLY **YES** **NO**

1.02.38 **CAB ROOF STIFFENER**
In order to reduce noise and vibration, a 0.125" ABS stiffener panel shall be bonded to the inside of the cab roof. Panel shall be applied with adhesive tape and polyurethane adhesive/sealant.

COMPLY **YES** **NO**

1.02.60 **CAB CONDUIT**
A 5.5" cab conduit shall be installed between the cab and module located behind the driver's seat. The driver's console harness shall be routed through the conduit.

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 no fewer than twelve locations. Each mounting location shall include a hard rubber isolation pad between the chassis frame and the module lateral. The rearmost lateral(s) shall be connected to the frame extensions

with 5/8" grade 8 bolts. All remaining laterals shall be connected with vertical 3/4" grade B7 eye bolts fastened to the frame rails with horizontal 3/4" grade 8 hex bolts. All bolts shall be secured with locking nuts.

COMPLY **YES** **NO**

1.03.02 CAB-TO-MODULE ATTACHMENT

The module shall be connected to the cab with a flexible watertight boot to allow cab-body flex as designed by the chassis manufacturer. The chassis rear window shall be replaced by an aluminum insert covered with black-painted polyurea thermoplastic elastomer, with a 16"H x 16"W opening.

COMPLY **YES** **NO**

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

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

Drop Skirt		4.00 "
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Overall Vehicle Dimensions (Specifications are listed as minimums.)

Length	24 '	10.875 "	298.88 "
Width (excluding mirrors)	8 '	0 "	96.00 "
Height (Approximate)	9 '	6.38 "	114.38 "

Exterior Module Dimensions (Specifications are listed as minimums.)

Length	12 '	11 "	155.00 "
Width	8 '	0 "	96.00 "
Height	7 '	8.375 "	92.375 "

Interior Dimensions (Specifications are listed as minimums.)

Length	Forward Wall to Rear Wall	148.00 "
Width	Left Wall to Right Wall	91.00 "
Floor Width	Left Cabinets to Squad Bench	50.25 "
Height	Floor to Ceiling	72.00 "

Load Height (Approximate)		37.00 "
	With suspension dumped	33.00 "

2.03

STRUCTURAL FRAMING

Side wall 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 a welded 2" x 2" tube, a 2" x 2" angle, or a 0.125" plate depending upon location. The wall structure shall be capped with a 2" x 4" x 0.125" header upon which a 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 formed aluminum channels to allow ample space for wiring raceways, heater hoses, and A/C hoses.

COMPLY **YES** **NO**

2.04

FOUNDATION SYSTEM

The foundation system shall consist of a 0.125" aluminum sheet subfloor with foundation members securely welded under the subfloor. Transverse members (laterals) shall consist of 3" x 3" x 0.375" structural angles. 0.25" x 1.5" aluminum stringers shall span longitudinally between the laterals.

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 NORBOND closed-cell, polyurethane foam tape with high-performance acrylic adhesive shall be

utilized full length on all front and rear wall and roof frame members. A polyurethane adhesive sealant shall be applied to the edges of framing members that are bonded with NORBOND tape. An advanced two-part methacrylate structural adhesive shall be used to bond all side wall tubes to the exterior skin and door frames.

The module shall be constructed utilizing full-size sheet construction to minimize body seams. There shall be no corner or mid-body seams.

COMPLY	YES	NO
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2.07 MODULE ROOF

The roof shall be seamed transversely with seam spacing not less than 96", be crowned, have a 1.5" radius along the edges, and be welded to 2" x 4" wall header tubes 4.75" 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 continuously welded. 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 module. A contoured, 3/8" aluminum plate, painted to match the module, shall be welded to the roof structure and project through the center of the roof to serve as anchorage for personal fall arrest equipment. The anchorage is designed and rated for a single person only.

COMPLY	YES	NO
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2.08 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 adjustable track which is securely welded to compartment interiors. Each shelf shall support at least 300 lbs. of equipment.

COMPARTMENT #1

Interior Dimensions – 50"W x 44.5"H x 20"D

Doorway Dimensions – 50"W x 44.5"H

Location – Streetside, forward

Shelving – Four adjustable 22.5"W 2/3 deep bin shelves (two forward bins shall be notched)

Door(s) – Double

Light(s) – Two vertical LED strip lights

Additional Instructions – The 120VAC Power Box shall be installed in the forward wall (Section 6.21 related), recessed so as not to protrude into the compartment.

A bracket and strap shall be installed on the compartment doorskin of the aft door for a *customer-supplied-and-installed* Stryker #6251 stair chair (Section 4.17 related).

A filtered vent shall be installed on the forward wall.

COMPARTMENT #2

Interior Dimensions – 24"W x 72"H x 20"D

Doorway Dimensions – 24"W x 72"H

Location – Streetside, rear

Shelving – Three adjustable half-width shelves

Door(s) – Single

Light(s) – One vertical LED strip light

Additional Instructions – Two backboard restraining straps shall be installed in the forward portion of the compartment. A formed stainless steel gasket cover shall be installed so that backboards do not cut gasket material.

A vertical divider shall be installed between the three shelves and the rear wall to assist in holding backboards in place.

A black powder-coated bracket shall be installed on the aft upper aluminum track for a *customer-supplied-and-installed* SCBA cylinder holder (Section 4.10A related).

COMPARTMENT #3

Interior Dimensions – 24"W x 75"H x 20"D

Doorway Dimensions – 24"W x 75"H

Location – Curbside, rear

Shelving – Four adjustable partial width shelves

Door(s) – Single

Light(s) – One vertical LED strip light

Additional Instructions – This compartment shall have a welded bracket, painted to match the compartment, and three ratcheting straps with UHMW stiffeners set up for storage of a *customer-supplied-and-installed* K cylinder.

A black powder-coated bracket shall be installed on the aft upper aluminum track for a *customer-supplied-and-installed* SCBA cylinder holder (Section 4.10A related).

A filtered vent shall be installed in the aft wall of the compartment.

The back wall of the compartment shall be reinforced for the interior jump seat.

COMPARTMENT #4

Interior Dimensions – 19"W x 16.5"H x 20"D

Doorway Dimensions – 19"W x 16.5"H

Location – Curbside, aft of wheel well

Shelving – None

Door(s) – Single

Light(s) – One vertical LED strip light

Additional Instructions – None

COMPARTMENT #5

Interior Dimensions – 22.75"W x 73.25"H x 30.25"D

Doorway Dimensions – 22.75"W x 73.25"H

Location – Curbside, forward

Shelving – See Cabinets #20 and #21

Door(s) – Single

Light(s) – One vertical LED strip light

Additional Instructions – This compartment shall have a full width stainless steel threshold on the floor level shelf and provide inside/outside access to Cabinets #19 and #20. The below floor area shall be for general storage.

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 FRAMES AND SEAL

Each door frame shall have a flange for the installation of an air cell hollow core 360-degree compression door seal. This seal creates watertight, dust-free compartment integrity. Door seal shall be knock-on type. Door frames shall be bonded to the adjacent tubes such that no exterior flange is required.

COMPLY	YES	NO
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2.09.02

DOOR HINGES

Compartment and passage doors shall have full-length, piano-type, 2.5"W stainless steel hinges, positioned with 0.25" rivets top and bottom. The hinges shall be attached with #12 x 0.75" stainless steel truss head screws spaced 4" apart, sealed with Sikaflex. All curbside and streetside doors shall be hinged on the forward sides, and all rear doors shall be hinged on the outboard sides.

COMPLY	YES	NO
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2.09.03

DOOR LATCHES

Exterior door handles shall be semi-flush, chrome-plated Eberhard E Grabber #21100. Passage doors shall have release handles on the inside of each door. All exterior doors shall have rotary latches and striker posts that meet FMVSS 206 requirements. Striker posts shall be adjustable and be secured with a nut from behind the door frame. The striker washer shall not be removed. Doors greater than 45" tall shall have double rotary latches activated by stainless steel rods. Once final adjustments have been made, threads shall have Loctite or equivalent applied. All double-door compartments shall have an exterior E Grabber handle and rotary latches on each door. Doors shall latch to doorframe-mounted striker posts only and not to one another. Curbside passage and rear curbside doors shall have interior handles with dual-point, rod-actuated, rotary latch systems that are lockable inside and out. All locks shall be keyed J236.

Rear passage doors shall both have emergency release levers, one at the top and bottom of each door and accessible from the inside of the module.

COMPLY	YES	NO
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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
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2.09.05

CURBSIDE DOOR CONTROL

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

COMPLY	YES	NO
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2.09.06

REAR DOOR CONTROL

Rear door controls shall be two grabber-type hold-open devices with replaceable rubber catches.

COMPLY	YES	NO
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2.09.07

COMPARTMENT DOORSKINS

Each compartment doorskin shall be made of 0.080" bright aluminum diamond plate, shall be removable, and have a latch service opening with a 2.25" x 4.5" black rubber plug for lubrication and service. Doorskins shall be secured with #8 pan head screws and Sikaflex. Red/white 1.5" conspicuity tape shall be installed on the outboard vertical edge of each door.

COMPLY	YES	NO
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2.09.08

ENTRANCE DOOR SKINS

Shall be 0.080" bright aluminum diamond plate and be removable to service door hardware. Red/white 1.5" conspicuity tape shall be installed on the outboard top, bottom, and vertical edges of the side passage doorskin and curbside rear doorskins. The streetside rear doorskin shall have tape on the top and bottom edges.

COMPLY	YES	NO
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2.09.09

ENTRANCE DOORWAYS

One curbside and two rear module entrance doors shall be provided. The curbside doorway dimensions shall be 31"W x 77.75"H. The rear doorway dimensions shall be 49.75"W x 66"H.

COMPLY	YES	NO
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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
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2.10

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 adjustable track.

CABINET #1

Dimensions – 29.5"W x 14"H x 15.75"D

Location – Streetside, upper forward

Shelving – One adjustable

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

Lighting – LED under-cabinet strip light (Section 6.14 related)

Additional Instructions – None

CABINET #2

Dimensions – 29.5"W x 14"H x 15.75"D

Location – Streetside, upper middle

Shelving – One adjustable
Door(s) – Sliding, clear 0.177" acrylic with felt-lined anodized aluminum track and fully-extruded aluminum door pulls
Lighting – LED under-cabinet strip light (Section 6.14 related)
Additional Instructions – None

CABINET #3

Location – Streetside, upper middle closeout
Shelving – None
Door(s) – None
Lighting – None
Additional Instructions – None

CABINET #4 – Glove Storage

Dimensions – 30.5"W x 6.75"H x 6.5"D
Location – Streetside, rear upper
Shelving – None
Door(s) – Bottom-hinged painted aluminum with a twist/slam latch and three cut-outs
Lighting – LED under-cabinet strip light (Section 6.14 related)
Additional Instructions – This cabinet shall be set up as glove storage (Section 5.32 related).

CABINET #5

Dimensions – 19"W x 8"H x 15.75"D
Location – Streetside, upper rear
Shelving – None
Door(s) – Top-hinged polycarbonate with a twist/slam latch
Additional Instructions – None

ACTION AREA #6

Dimensions – 35.5"W x 26"H x 20"D
Location – Streetside, forward middle
Shelving – None
Door(s) – None
Additional Instructions – It shall contain one 120VAC receptacle, one 12VDC receptacle, and one 12VDC dual USB charging port, inverter status panel, digital thermostat and attendant control panel. A Rico suction collector with vacuum connection shall be installed towards the forward end of the Action Area (Section 6.13X related).
An footman loop with an aircraft-grade latching cable shall be installed on the wall, aft.
A full depth counter top shall be located below the action wall. The counter top shall be one-piece 16 ga., 304 stainless steel with a 0.5" aluminum retaining lip.

CABINET #7

Dimensions – 22"W x 24"H x 12.5"D
Location – Streetside, forward middle
Shelving – Two adjustable
Door(s) – Sliding, clear 0.177" acrylic with felt-lined anodized aluminum track and fully-extruded aluminum door pulls
Additional Instructions – None

STREETSIDE ATTENDANT SEAT #8

Dimensions – 52.5"W x 56.125"H x 20"D

Location – Streetside

Shelving – None

Door(s) – None

Additional Instructions – There shall be one Valor bucket style attendant seat with 4-point harness mounted on an appropriate mounting swivel base in this area. It shall be able to rotate to the forward position and fold flat to allow for a backboard to be secured on top. Three female seatbelt receptacles each shall be bolted to the upper and lower streetside walls and three manual adjustable belts with male buckles at both ends shall be provided, for securing a backboard. One additional two-point seatbelt shall be installed on the aft wall.

A slide-out easy-access sharps/waste tray with gas-shock assist shall be installed behind the attendant seat to hold sharps and waste containers (Section 5.26X related).

Three custom 16"W x 5"H x 15"D drawers painted white with grey splatter shall be installed aft of the Action Area counter.

An oxygen outlet shall be installed on the wall, aft of Cabinet #3.

CABINET #9 – Glove Storage

Dimensions – 30.5"W x 6.75"H x 6.5"D

Location – Curbside, rear upper

Shelving – None

Door(s) – Bottom-hinged painted aluminum with a twist/slam latch and three cut-outs

Additional Instructions – This cabinet shall be set up as glove storage (Section 5.32 related).

CABINET #10

Location – Curbside, upper middle closeout

Shelving – None

Door(s) – None

Lighting – None

Additional Instructions – The curbside attendant panel shall be installed on the lower portion of the cabinet (Section 6.13B related).

CABINET #11

Dimensions – 18"W x 7.5"H x 12"D

Location – Curbside, center upper

Shelving – None

Door(s) – Top-hinged clear polycarbonate with a twist/slam latch

Additional Instructions – None

CABINET #12

Dimensions – 18"W x 7.5"H x 12"D

Location – Curbside, center upper

Shelving – None

Door(s) – Top-hinged clear polycarbonate with a twist/slam latch

Lighting – LED under-cabinet strip light (Section 6.14 related)

Additional Instructions – A 120VAC fluid warmer shall be installed forward, with a 120VAC receptacle and 4" surround (Section 6.35A related).

CABINET #13 – Glove Storage

Dimensions – 27.5"W x 6.75"H x 4"D

Location – Curbside passage doorskin

Shelving – None

Door(s) – Bottom hinged painted aluminum with a twist/slam latch

Additional Instructions – Storage for three glove boxes shall be provided in this cabinet (Section 5.32 related).

CURBSIDE ATTENDANT AREA #14

Dimensions – 18"W x 24"H x 20"D

Location – Curbside, center

Shelving – None

Door(s) – None

Additional Instructions – It shall contain a dome timer momentary rocker switch (Section 6.16 related), one 120VAC receptacle, one 12VDC receptacle, one dual USB port and an "AUTO/OFF" switch for the Zico step.

An eye strap for inventory control shall be installed under Cabinet #12.

A full depth counter top shall be located below the action wall. The counter top shall be one-piece 16 ga., 304 stainless steel with a 0.5" aluminum retaining lip.

An footman loop with an aircraft-grade latching cable shall be installed on the wall, aft.

CURBSIDE ATTENDANT SEAT #15

Dimensions – 47.625"W x 56.125"H x 20"D

Location – Curbside, rear

Shelving – None

Door(s) – None

Additional Instructions – There shall be one Valor bucket style attendant seat, with 4-point harness, mounted on an appropriate mounting swivel base. It shall be able to rotate to the forward position.

A slide-out easy-access tray shall be installed behind the attendant seat to hold sharps and waste containers (Section 5.26X related).

An oxygen outlet shall be installed on the wall, below Cabinet #10.

The oxygen window shall be installed on the aft wall, facing the cot.

CABINET #16 – Cylinder Storage

Dimensions – 13"W x 25"H x 5.25"D

Location – Curbside front stack, facing aisle

Shelving – None

Door(s) – Bottom hinged painted aluminum with a Southco #C2 latch

Additional Instructions – Cabinet shall tip out and provide storage for two *customer-supplied-and-installed* "D" cylinders.

CABINET #17 – HVAC

Dimensions – 35.75"W x 14.5"H x 24.875"D

Location – Curbside front stack, upper

Shelving – None

Door(s) – None

Additional Instructions – This cabinet shall house heater/AC unit and suction pump.

CABINET #18 – Electrical Cabinet

Dimensions – 30.5"W x 13.125"H x 10"D

Location – Front, center over pass-thru

Shelving – None

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

Additional Instructions – This cabinet shall house the electrical component module. An atomic-controlled clock shall be installed on the face of this cabinet (Section 5.24 related).

CABINET #19 – Radio Cabinet

Dimensions – 17.5"W x 39"H x 10"D

Location – Forward upper, behind attendant seat

Shelving – None

Door(s) – Aft-facing aluminum panel with upper and lower louvers, and a SouthCo #C2 latch

Additional Instructions – This cabinet is intended for mounting radio components and shall be supplied with access to power component panel. Antenna cables shall terminate in this cabinet.

CABINET #20 – Inside/Outside Access

Dimensions – 27"W x 28.25"H x 24.875"D

Location – Curbside front stack, upper

Shelving – One adjustable shelf with 1" x 1" lip down outside, and 2" lip on the inside.

Door(s) – Double polycarbonate side-hinged doors with pinch latches

Additional Instructions – This cabinet shall provide inside/outside access to Compartment #5. One 12VDC receptacle and one 120VAC receptacle shall be installed on the back wall, upper left.

A vertical plenum for the HVAC shall be located on the aisle side of the cabinet.

CABINET #21 – Inside/Outside Access

Dimensions – 27"W x 29.25"H x 24.875"D

Location – Curbside front stack, lower

Shelving – One adjustable shelf with 1" x 1" lip down towards the outside, and 2"H lip on the lip facing the step well.

Door(s) – Double polycarbonate with pinch latches

Additional Instructions – This cabinet shall provide inside/outside access to Compartment #5. One 12VDC receptacle and one 120VAC receptacle shall be installed on the back wall, upper inboard.

A vertical plenum for the HVAC shall be located on the aisle side of the cabinet.

CABINET #22

Dimensions – 19.5"W x 12"H x 10"D

Location – Forward lower behind attendant seat

Shelving – None

Door(s) – Aft facing aluminum panel with louvers, and SouthCo #C2 latch

Additional Instructions – The inverter shall be installed in in this cabinet, with a 120VAC muffin fan for exhaust (Section 6.31 related).

CABINET #23– Custom Drawers

Location – Streetside, under countertop, facing aft

Additional Instructions – There shall be three custom 16”W x 5”H x 15”D aluminum drawers in this area. 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 of formed aluminum construction with structural support on the sides and front of drawers. Each of the drawers shall have four adjustable dividers provided with each drawer installed side to side.

One forward-hinged polycarbonate cover shall be installed on top of the dividers in the top drawer, for use as a writing surface.

CABINET #24– Custom Drawers

Location – Curbside, under countertop, facing aft

Additional Instructions – There shall be three custom 16”W x 5”H x 15”D drawers in this area. 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 of formed aluminum construction with structural support on the sides and front of drawers. Each of the drawers shall have four adjustable dividers provided with each drawer installed side to side.

One forward-hinged polycarbonate cover shall be installed on top of the dividers in the top drawer, for use as a writing surface.

COMPLY **YES** **NO**

2.11A SIDE DOORSTEP

A recessed curbside double doorstep shall be provided which is 19” deep x 31” wide at the curbside passage door. There shall be a drain hole and light gray Matéflex floor tile which is removable for cleaning purposes. Aluminum diamond plate kick panel shall be installed on the sides and face of doorstep.

COMPLY **YES** **NO**

2.13 CAB TO MODULE PASSAGE

Shall be a pass-thru measuring 16”H x 16”W.

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**

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**

3.04X

COLOR SCHEME

Base color: To match Ram OEM White (PW7) (GLV-11291704)

Reference: See #2542-1 pics

Stripe #4	Color:	Red 983-72/White 983-10
	Width:	6"
	Style:	Chevrons
	Material:	Diamond Grade Conspicuity
	Location:	Entire rear of module below drip rail, stopping short of the radius

COMPLY **YES** **NO**

3.05 LETTERING/DECALS

Streetside View

Item S2

Rear View

Item R1	Lettering:	"A-#" (# TBD at the preconstruction meeting)
	Font:	Bookman Old Style
	Color:	Imitation Gold Leaf w/ black outline and drop shadow left
	Size:	5"H x 8"W
	Material:	Vinyl
	Location:	Rear

Item R2	Lettering:	"AMBULANCE"
	Font:	Helvetica Medium
	Color:	Blue with white outline
	Size:	7.5"H x 44"L
	Material:	Scotchlite
	Location:	Rear lower doors

Curbside View

Front View

Top View

Item T1

Decal: Star of Life
Color: Blue
Size: 32"
Material: Scotchlite
Location: Forward 1/3 of Module Roof

COMPLY **YES** **NO**

3.06 COMPARTMENT FINISH

All compartments shall be sanded, etched, washed, primed, coated with textured polyurea thermoplastic elastomer finish and painted white with light gray splatter paint (GLV-33631 Alt 2 / GLV-51748).

All shelves and trays shall be sanded, etched, washed, primed, and painted white with light gray splatter paint (GLV-33631 Alt 2 / GLV-51748).

COMPLY **YES** **NO**

3.07 INTERIOR CABINERY FINISH

All interior cabinetry shall be sanded, etched, washed, primed, coated with textured polyurethane finish, and painted white with light gray splatter paint (GLV-33631 Alt 2 / GLV-51748).

All shelves and trays shall be sanded, etched, washed, primed, and painted white with light gray splatter paint (GLV-33631 Alt 2 / GLV-51748).

COMPLY **YES** **NO**

3.08 MODULE UPHOLSTERY

Module upholstery material shall be Dove Gray Spradling Perform 60 seamless vinyl.

COMPLY **YES** **NO**

3.09 MODULE FLOORING MATERIAL

Shall be Genome (#TFM2202) 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 (Section 5.04 related).

An insulated floor shall be installed over the subfloor. It shall be constructed with square tubing (0.75" x 0.75" x 0.063"), filled with 0.75" thick polyiso 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 Matéflex floor tile and all shelves with 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 patient compartment 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 chassis and module underbodies (excluding the area above the fuel tank, driveline, and exhaust lines, per manufacturer's specifications) shall be sprayed with undercoating for reduced corrosion and added sound deadening.

COMPLY **YES** **NO**

4 **MODULE EXTERIOR**

4.01 **STEP/BUMPER**
The rear bumper shall be a welded construction of 3" x 3" x 0.375" aluminum angle and 1.5" x 0.25" flat bar and shall be covered by 0.125" bright aluminum diamond plate. The entire top shall be non-skid Grip Strut and shall provide a 7" step. Both outermost ends shall be angled to prevent dragging of corners in high angle of 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. Bumper to be designed to accommodate a one-person-style cot.

COMPLY **YES** **NO**

4.02 **RUB RAILS**
Bright finished extruded aluminum rub rails of a double channel design shall be installed along the lower streetside and curbside edges of the module. Rub rails shall be 2.5"H x 0.75"W x 0.125"D, with a red/white conspicuity reflective tape installed in the insert area.

COMPLY **YES** **NO**

4.03 **FENDER RINGS**
Bright polished aluminum fender rings with a rounded outer edge shall be installed on the module, following the full contour of the wheel well opening.

COMPLY **YES** **NO**

4.04

DRIP RAILS

Extruded, anodized aluminum drip rails shall be installed the full length of the module front, rear, and sides near the roof. Drip rails shall be installed with bonding tape and mechanical fasteners on each end that shall withstand exposure to the elements. They shall be finished with 45-degree angled ends to avoid hooking materials which brush against the vehicle causing damage.

COMPLY **YES** **NO**

4.05

ROCK GUARDS

Bright aluminum diamond plate rock guards shall cover the front module corners, 24" up from bottom of module, 2.5" wrapped around the sides of module, and 15" across the front of the module.

COMPLY **YES** **NO**

4.06

REAR KICK PANEL

A bright aluminum diamond plate rear kick panel shall extend from the bottom edge of the module up to the bottom of the rear doors, full-width formed and wrapped 2.5" around the sides of the module.

COMPLY **YES** **NO**

4.07

FUEL FILL

A polished cast aluminum fill well shall be installed on the streetside of the module and be properly vented. All fuel filler hoses shall be protected with a 0.125" aluminum protection plate. Fuel fills shall be installed in accordance with Body Builder's recommendation.

OEM DEF fill is located between the cab and module, streetside..

COMPLY **YES** **NO**

4.08

MODULE WINDOWS

All module windows shall have black anodized aluminum frames, rubber gaskets, be dark-tinted and shall be attached with screws for ease of replacement. All module windows shall be dark tinted with fixed glass. The rear door windows shall be 18.75" x 18.75" fixed glass to prevent exhaust from entering the module. The curbside passage door module window shall be 18.75" x 18.5" with sliding glass, a positive catch, and a screen.

COMPLY **YES** **NO**

4.09

FUEL SPLASH GUARD

Shall be made of stainless steel and shall be installed below the fuel fill.

COMPLY **YES** **NO**

4.17B

STEP, ELECTRIC

Wiring and switch installed for a customer supplied and installed electric step as follows; bidder will provide an wired override switch labeled "AUTO/OFF" shall be installed inside the module, just aft of the curbside door to prevent the step from being extended.

(Customer will supply and install a Zico VS-24-9 electric step with a 7.625" drop) under the curbside passage door and shall be wired to extend and retract with the door.)

COMPLY **YES** **NO**

4.27 STAIR CHAIR STORAGE

A bracket and strap shall be installed on the Compartment #1 aft door doorskin for a *customer-supplied-and-installed* Stryker #6241 stair chair.

COMPLY **YES** **NO**

5 MODULE INTERIOR

All interior hangers, supports, fasteners, latches, and hinges shall be of a near-flush-type design. The patient compartment shall be free of sharp projections. Exposed edges and corners shall be broken with a radius or protected with 1" high-density foam covered with heavy-duty vinyl color-matched upholstery.

COMPLY **YES** **NO**

5.01 UPPER WALL COVERING

The upper module interior walls shall consist of light gray, heavy-grade, 0.125" ABS vinyl panels attached to the wall structure with a closed-cell polyethylene foam tape coated on both sides with a permanent acrylic-based pressure-sensitive adhesive.

COMPLY **YES** **NO**

5.02 HEADLINER

Shall be a durable fiber-reinforced panel, 0.09" thick, with a textured, non-porous white surface.

COMPLY **YES** **NO**

5.03 HEADPADS/CUSHIONS

Head pads located over all module access openings and seat backs shall be 1" high-density foam covered with heavy-duty vinyl matching upholstery.
Seat cushions shall be 3" high-density foam covered with heavy-duty vinyl matching upholstery (Section 3.08 related).

COMPLY **YES** **NO**

5.04 LOWER WALL COVERING

The lower portion of the streetside and curbside walls shall be nonporous, color-coordinated material.

COMPLY **YES** **NO**

5.05 GRAB RAIL

One 75" L x 1.250" D stainless steel grab rail with three support brackets shall be securely mounted to roof structural framing running through centerline.

COMPLY **YES** **NO**

5.06

ACCESS DOOR GRAB RAILS

Each module access door shall have a 1.250" L-style stainless steel grab handle which may also be used as an entry assist rail.

COMPLY **YES** **NO**

5.07

IV HANGERS

Two ceiling mounted Cast #IV2008 recessed IV holders shall be supplied over the cot.

COMPLY **YES** **NO**

5.08

COT MOUNT

A *customer-supplied* Stryker Power-LOAD #6390 cot fastener system shall be installed Section 8.02 related.

The Power-LOAD anchor assembly shall be installed to position the aft end of the cot 11" forward of the rear doors.

To allow use of non-Power-LOAD, X-frame cots with the Power-LOAD system, a safety hook shall be installed in the Power-LOAD floor plate, a rear rail clamp shall be shipped loose (Section 8.01 related), and a floor plate shall be installed for mounting the rear rail clamp.

COMPLY **YES** **NO**

5.10X

ATTENDANT SEAT

A rear-facing Valor bucket style child safety seat upholstered with heavy grade vinyl, shall be located at head of cot to clear head of cot and curbside front stack in swivel mode. It shall provide easy access to all action wall controls and outlets, and to the patient. Seat shall swivel 180 degrees and be securely anchored on an appropriate mounting swivel. A 3-point seatbelt shall be provided as part of the seat.

One Valor bucket style seat shall be mounted on an appropriate mounting swivel base on the streetside. Seat shall have a 4-point seatbelt harness and a folding back.

One Valor bucket style seat shall be mounted on an appropriate mounting swivel base on curbside. Seat shall have a 4-point harness and 12° back.

All seats shall have Dove grey seamless vinyl upholstery.

A folding jump seat with spring loaded seat irons shall be installed on the inboard wall aft of the curbside attendant seat #15. The wall shall be reinforced at the mounting location to support jump seat. It shall have a padded seat and backrest and one auto-retractor seat belt. Details to be determined at the preconstruction meeting.

COMPLY **YES** **NO**

5.11

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 on the wall of the Streetside Attendant Seat #8, one on the wall of the Curbside Attendant Seat #15, and one in ceiling above primary patient

A 50 PSI regulator shall be included, and one oxygen tank wrench shall be shipped loose (Section 8.01 related).

COMPLY **YES** **NO**

5.12X

SUCTION PUMP

The unit shall have an electric pump as the source of suction installed in the HVAC cabinet #17. Control shall be on the streetside and curbside attendant panels. A momentary rocker switches shall be installed in both the streetside #6 and curbside #10 attendant panels, linked to an InPower module to control the On/Off function. Pressing the top of the switches shall turn on suction, pressing the bottom of the switches shall turn off suction. Suction pump shall be vented to the outside of the vehicle under the module body.

COMPLY	YES	NO
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5.13

SUCTION COLLECTOR

A Rico Model RS4X-1001B suction collector with disposable canister shall be installed in the forward portion of the streetside Action Area #6.

COMPLY	YES	NO
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5.14X

SEATBELTS

Shall be DOT-certified and shall be installed with all passenger seating. The streetside and curbside attendant seats shall each have a four-point harness. The head of cot attendant seat shall have a three-point harness and a child safety seat. Three female seatbelt receptacles each shall be bolted to the upper and lower streetside walls and three manual adjustable belts with male buckles at both ends shall be provided, for securing a backboard. Two additional two-point seatbelts shall be installed: one manual on the wall aft of the streetside attendant seat. and one auto-retractor on the folding jump chair.

COMPLY	YES	NO
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5.16

INSULATION

The module sides, ends, roof, and doors shall be insulated to enhance the interior environment and to restrict 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 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
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5.17X

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 #25065 83K dual fan condenser with surround painted to match the module shall be installed on the upper front of the module.

A 12VDC water pump shall be installed to increase the heating capacity and efficiency of the system.

Four vents shall be installed in a vertical plenum on the aisle side of right front stack, spaced evenly.

COMPLY	YES	NO
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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 an opening protected by an aluminum vent cover. The interior chamber of the intake shall be made of aluminum and formed to prevent the collection of moisture. Washable filter media shall be installed in the intake chamber.

COMPLY **YES** **NO**

5.19

AIR RETURN

A return path with open area equal to at least twice the blower outlet area shall be incorporated into the evaporator closeout.

COMPLY **YES** **NO**

5.20X

EXHAUST VENT

A motor-powered exhaust vent shall be located in the curbside rear corner of the module, controlled via momentary rocker switches in the streetside and curbside attendant panels connected to an InPower module. Pressing the top of the switches shall turn on suction, pressing the bottom of the switches shall turn off suction.

COMPLY **YES** **NO**

5.21

NO SMOKING/FASTEN SEAT BELTS SIGNS

Two "No Smoking/Fasten Seat Belt" signs shall be installed - one in the cab on the glove box door, and one in the Action Area on the streetside interior wall of the module.

COMPLY **YES** **NO**

5.23A

WHITE MARKER BOARD

Shall be installed on the curbside wall of pass-through.

COMPLY **YES** **NO**

5.24

CLOCK

An atomic-controlled clock shall be installed on the door of Cabinet #18 electrical cabinet. The clock shall be LCD display and show hours (12/24 selectable), minutes, seconds, date, day, and temperature. Clock shall be powered by two AA alkaline batteries.

COMPLY **YES** **NO**

5.26B

SHARPS/HAZARDOUS WASTE CONTAINERS

Two Kendall 8920SA 2.0 quart sharps containers and two 7 quart waste containers shall be installed, one each behind the streetside and curbside attendant seats, mounted in painted aluminum brackets on locking slides, with a slide release on the forward slide. The top of the waste containers shall be cut to fit below the seats.

COMPLY **YES** **NO**

5.29 OXYGEN WINDOW
Shall be a clear 6" x 11" acrylic window. The window shall have a knob and be mounted with self-closing hinges.

COMPLY **YES** **NO**

5.32 GLOVE STORAGE
Cabinets #4, #9, and #13 shall provide storage for three glove boxes each.

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, or function coded every 3" for permanent identification and correspond with the vehicle schematics. Solderless, insulated connectors shall be used. Slotted Panduit-style wiring duct 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. 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.

The vehicle electrical system shall be tested and certified to AMD 005 requirements.

COMPLY **YES** **NO**

6.01 ELECTRICAL LOAD DEVICES

Body electrical wiring shall utilize overload protective devices of the automotive-type circuit breaker. In addition, one 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/AMMETER

A single display voltmeter/ammeter shall be installed on the top of the driver's console, which simultaneously displays voltage and alternator current when the ignition is on. Display flashes to indicate low voltage.

COMPLY **YES** **NO**

6.04 IGNITION CONTROL

Chassis electrical circuits shall be controlled by the ignition switch as provided by the OEM chassis manufacturer. The auxiliary chassis-related functions shall be powered by one 100 amp continuous duty solenoid, triggered by the chassis ignition.

COMPLY **YES** **NO**

6.05A

MODULE POWER

Module power shall be controlled by a console-mounted switch labeled "MODULE DISC." which activates a CDR-357 solenoid. An ignition interlock shall disconnect module power 15 minutes after vehicle's ignition is turned off. The interlock shall also allow module power to be reactivated independently for 15 minutes by cycling either the ignition switch or the module disconnect switch.

COMPLY **YES** **NO**

6.06

WIRING ACCESS

All cabinets and compartments shall have removable panels as needed to access wiring harnesses and hoses.

COMPLY **YES** **NO**

6.07

BACK-UP ALARM

A back-up alarm with a sound output level of 97 dB shall be installed, with a momentary disable switch in the driver's console. If disabled while in reverse, the back-up 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**

6.09

DRIVER'S CONSOLE/MAP BOX

A driver's console made of formed aluminum, with black powder coating shall be installed between the seats. It shall have a switch panel with the following layout, two cup holders, and a map holder with six dividers that are mill finished aluminum.

1.	2.	3.	4.	Cut-out for <i>customer-supplied-and-installed</i> radio transceiver (Section 6.18 related)
Module Disc.	Emerg. Master	Opticom	White Lights	

5.	6.	7.	8.	Traffic Advisor
Flashers	Headlight Flasher	Lightbar Red	Back-up Disable	

9.	10.	11.	12.	Siren
Left Scene	Right Scene	Rear Scene	Blank	

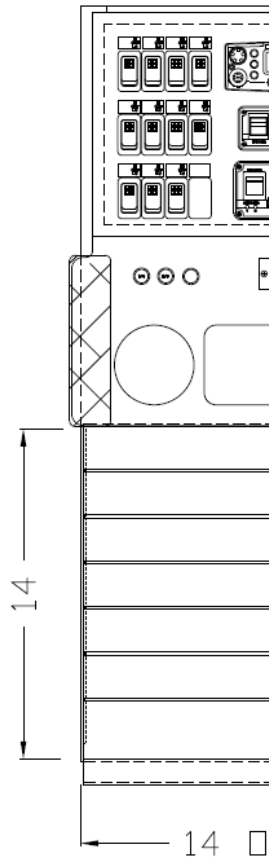
OTHER:

Voltmeter/Ammeter

Two Passage/Compartment Door Open warning lights and hole with cover

Two 12VDC receptacles located to far left and right sides on the front of the console

Opening for *customer-supplied-and-installed* radio head (recessed).



**Conceptual
Drawing**

COMPLY **YES** **NO**

6.10 SWITCHES

Switches installed in the driver's console and attendant panels shall be rocker-type and permanently marked by function.

One spare switch shall be installed on the driver's console (Section 6.09 related)

COMPLY **YES** **NO**

6.11 MAP LIGHT

A map light with a 19" flexible neck shall be mounted on the right forward corner of the driver's console.

COMPLY **YES** **NO**

6.12 DOOR AJAR WARNING LIGHTS

A flashing LED light with a red lens shall warn the driver of an open module passage door, and a flashing LED light with an amber lens shall warn the driver of an open module compartment door. The lights shall flash only if the ignition is on. Lights shall be installed on the driver's console.

COMPLY **YES** **NO**

6.13B ATTENDANT CONTROL PANEL

A six switch attendant control panel shall be located on the streetside wall in the Action Area #6 with the following switch layout:

- 1. Left Dome (Hi-Lo-Off) (momentary)
- 2. Right Dome (Hi-Lo-Off) (momentary)
- 3. Aspirator (momentary)
- 4. Vent (momentary)
- 5. Cabinet Light (SS)
- 6. Blank

An inverter status panel shall be located adjacent to the attendant control panel.

A six switch attendant control panel shall be located on Cabinet #10 with the following switch layout:

- 1. Left Dome (Hi-Lo-Off) (momentary)
- 2. Right Dome (Hi-Lo-Off) (momentary)
- 3. Aspirator (momentary)
- 4. Vent (momentary)
- 5. Cabinet Light (CS)
- 6. Blank

COMPLY YES NO

6.14 CABINET LIGHTING

The wall areas below Cabinets #1, #2, and #12 shall be lighted utilizing under-cabinet LED strip lighting. The streetside under-cabinet lighting shall be controlled by an ON/OFF switch in the streetside attendant panel, and the curbside under-cabinet lighting shall be controlled by an ON/OFF switch in the curbside attendant panel.

COMPLY YES NO

6.15A STEPLIGHTS

A Whelen #3SC0CDCR Clear Lens Clear 3" LED light shall be installed on the forward wall of the curbside door stepwell.

COMPLY YES NO

6.16B MODULE INTERIOR LIGHTING

Shall be designed to maintain maximum headroom without interfering with the structural integrity of the roof. Module interior lighting shall consist of seven Whelen #80C0EHCR dual intensity LED recessed lights – one bank of four lights shall be positioned toward streetside and one bank of three lights toward curbside. There shall be a control switch for each bank of dome lights in both the streetside and curbside attendant panels. An InPower module shall be installed in the electrical cabinet and connected to HI-LO-OFF momentary switches in the in both the streetside and curbside attendant panels. Pressing the top of the switch shall increase intensity. Pressing the bottom of the switch shall decrease intensity.

Dome light switches shall be momentary contact HI-LO-OFF switches. Pressing the top of the switch shall increase intensity. Pressing the bottom of the switch shall decrease intensity.

The curbside bank of lights shall be automatically activated when the rear or side doors are opened or by a momentary rocker switch labeled "DOME TIMER" mounted on the wall near the curbside passage door, which shall activate a battery hot timer. Pressing the

switch once shall initiate 15-minute timed operation of the lights. Pressing the switch again shall cancel the timed operation.

COMPLY **YES** **NO**

6.17 BASIC EXTERIOR LIGHTING

Basic lighting shall include headlights, parking lights, directional signal lights, tail and stop lights, license plate light, back-up lights, hazard lights, identification lights, clearance lights, and side marker lights as required by FMVSS 108.

Module identification lights, clearance lights, and side marker lights, unless included on a lightbar, shall be Truck-Lite LED Model 36.

Rear and side reflex reflectors shall be installed in accordance with FMVSS 108 requirements.

Rear stop/tail, turn and back-up lights shall be Truck-Lite Model 45 series LED lights, installed in the rear kick panel, pattern from outboard in: red stop/tail light, amber turn signal, and clear back-up light. The back-up lights shall activate automatically when the vehicle is placed in reverse.

COMPLY **YES** **NO**

6.18 COMMUNICATIONS EQUIPMENT

The customer shall be responsible for powering up and tuning of any radio equipment.

Item #1

Description: *Customer-supplied* interconnect cables for a Motorola XL2500 dual head radio shall be installed (Section 8.02 related).

Location: From Radio Cabinet #19 to driver's console and Action Area #6

Additional Instructions: Interconnect cables shall be labeled at both ends.

COMPLY **YES** **NO**

6.19 ANTENNA MOUNTS AND CABLES

Two NMO universal antenna mounts with KHFDUD/RG58UD cables, Larsen HyPermaster universal connectors and mini-UHF adapters shall be installed on the module roof. Antenna base access shall be through the dome light openings, and the cables shall terminate in Radio Cabinet #19

COMPLY **YES** **NO**

6.20 BLOCK HEATER

A block heater, with a toggle-style circuit breaker in the 120VAC Power Box, shall be wired to the 120VAC shorepower system (Section 1.01.02 related).

COMPLY **YES** **NO**

6.21 120VAC/SHORELINE CIRCUIT BOX

Utility power shall be furnished from 120VAC shorepower via a Kusmaul 20 amp Super Auto-Eject amp plug with a white cover on a stainless steel plate with a green indicator light located on the driver's side of vehicle and distributed via a formed aluminum power box recessed into the streetside front compartment. 120VAC power box shall be recessed and shall have an easily removable cover.

The box shall contain three 120VAC non-GFCI duplex receptacles and one 120VAC GFCI duplex receptacle for power distribution.

Toggle-style circuit breakers shall be installed for overcurrent protection and circuit isolation:

- Block Heater (15 Amp)
- Inverter (15 amp)

All exposed receptacles outside of the power box shall be ground fault circuit interrupting (GFCI) and shall have a power on indicating light. Five interior 120VAC GFCI duplex receptacles shall be mounted:

- One Action Area #6
- One Cabinet #12
- One Curbside Attendant Area #14
- One Cabinet #20
- One Cabinet #21

COMPLY **YES** **NO**

6.22 BATTERY GROUNDS

In addition to OEM chassis grounds, the following ground circuits shall be added to reduce RF interference:

- A minimum 4 ga. ground cable from the power component panel to the chassis frame.
- Two braided ground straps from the module body to the chassis frame.

COMPLY **YES** **NO**

6.23 BATTERY CHARGER

A 50 amp battery charger shall be provided as part of the Magnum Pure Sine 1000 inverter system (Section 6.31 related).

COMPLY **YES** **NO**

6.25 12VDC POWER SUPPLY

Four 12VDC, 15-amp lighter-style power point receptacles shall be provided:

- One in Action Area #6
- One in Curbside Attendant Area #14
- One in Cabinet #20 in right front stack, upper left
- One Cabinet #21 in right front stack, upper left

Receptacles shall be powered continuously.

One Blue Sea Dual USB charger shall be installed:

- Driver's Console

COMPLY **YES** **NO**

6.26 COMPARTMENT LIGHTING

A vertical LED strip light shall be installed in each outside compartment, and shall be activated by the respective compartment door switch. Compartment #2 shall have two lights.

COMPLY **YES** **NO**

6.27 **EXTERIOR DOOR SWITCHES**
Shall be 1/2" mechanical door switches.

COMPLY **YES** **NO**

6.30 **EMERGENCY WARNING SYSTEMS**

6.30.01 **FRONT LIGHT BAR**
FRONT FLASHER

Six Whelen M9 Series Flashers and an Opticom shall be installed on the front of the module.

- Curbside #M9R Red Lens Red Super-LED Flasher
 #M9R Red Lens Red Super-LED Flasher
 #M9C Clear Lens Clear Super-LED Flasher
- Center Opticom #794H emitter with surface-mount bezel
 #M9C Clear Lens Clear Super-LED Flasher
 #M9R Red Lens Red Super-LED Flasher
- Streetside #M9R Red Lens Red Super-LED Flasher

The red flashers shall be controlled by the "RED FLASHER" switch, and the clear flashers shall be controlled by the "WHITE FLASHER" switch, with both switches on the driver's console (Section 6.09 related).

The Opticom shall be controlled by the "OPTICOM" switch on the driver's console and shall disable when the vehicle is shifted into park (Section 6.09 related).

COMPLY **YES** **NO**

6.30.02 **REAR LIGHTBAR**

FLASHERS

Eight Clear lens Red LED flashers shall be mounted two on each side, two on the rear of module in upper corners, and two on the rear at window height. Lights shall be Whelen #M9RC.

One Clear lens Amber LED flasher shall be mounted on the rear of the vehicle at centered above the rear doors. Light shall be Whelen #M9AC. Lights shall be installed with flanges.

COMPLY **YES** **NO**

6.30.03 **FLASHERS**

Four Whelen #M9R Red Lens Red Super-LED flashers shall be mounted two each on the curbside and streetside of the module in upper corners.

Two Whelen #M9A Amber Lens Amber Super-LED flashers shall be mounted on the rear of the vehicle at window height.

Lights shall be controlled by the FLASHER switch on the driver's console (Section 6.09 related).

COMPLY **YES** **NO**

6.30.04X SCENELIGHTS
SCENELIGHTS

Six scenelights shall be installed – two on the streetside, two on the curbside, and two on the rear of the module. 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 #M9LZC LED Scene lights. The side door shall activate the curbside scenelights, the rear doors or when vehicle is placed in "Reverse" shall activate the rear and rear side scenelights. Lights shall be installed with flanges.

COMPLY **YES** **NO**

6.30.05 SPOTLIGHT

A 400,000 candlepower hand-held 12VDC spotlight shall be hardwired into the front of the console.

COMPLY **YES** **NO**

6.30.06X INTERSECTION LIGHTS

Two Whelen #WIONSMCR Clear Lens Red intersection lights with chrome housings shall be installed, one on each fender and Two Whelen M7RC Clear Lens Red intersection lights one above each module wheel well.

Lights shall be controlled by the "FLASHER" switch on the driver's console (Section 6.09 related).

COMPLY **YES** **NO**

6.30.08 GRILLE LIGHTS

Two Whelen #WIONSMCR Clear Lens Red LED flashers with chrome housings shall be installed on the OEM grille.

Lights shall be controlled by the "FLASHER" switch on the driver's console (Section 6.09 related).

Pre-wire for white lights.

COMPLY **YES** **NO**

6.30.09 SIREN

Shall be a Whelen 295-HFS2X remote siren amplifier, installed in the console area. The siren's hands free function shall operate through the OEM horn ring circuit when the sirens rotary selector is in the HF position and the Emergency Master switch in on or four Clear lens Red Super-LED flashers, Whelen TIR6 #50R03ZCR with 5TSMAC flange.

COMPLY **YES** **NO**

6.30.10 SIREN SPEAKERS

Two Federal Signal DynaMax #ES100C 100-watt speakers with mounting brackets shall be installed in the (OEM/aftermarket) bumper cutout just inboard of the tow eyes.

COMPLY **YES** **NO**

6.30.11 SEQUENTIAL SWITCHING SYSTEM

A Kussmaul sequential switching system shall be installed to control emergency lighting by sequencing the starting and stopping of selected electrical loads when the "EMERGENCY MASTER" switch is turned on or off.

COMPLY **YES** **NO**

6.31 INVERTER

A Magnum Pure Sine 1000 watt inverter with a 50 amp battery charger shall be installed in Cabinet #22 with a 120VAC muffin fan. A remote inverter status panel shall be installed in the Action Area #6. The inverter shall be configured to turn on and off with ignition.

COMPLY **YES** **NO**

6.35 FLUID WARMER

A 120VAC fluid warmer with a 120VAC GFCI receptacle shall be installed in Cabinet #12. The warmer shall be thermostatically controlled at 95 to 105 degrees F. Space for 10 one-liter bags of fluids shall be provided with a 4" surround to contain the fluid bags.

COMPLY **YES** **NO**

6.40 ELECTRIC DOOR LOCKS

Shall be installed on all compartment and module access doors. The module door locks shall be wired to the cab doors.

Two switches shall be provided: one located on rear curbside door, and one located on the curbside passage door.

A hidden unlock switch shall be located behind the license plate.

COMPLY **YES** **NO**

6.46B BACK-UP CAMERA

A Rostra #250-8273-W back-up camera system shall be installed, including a surface-mounted camera and a rear view mirror/monitor with a 7.3" screen. Camera shall automatically display on monitor when the vehicle is placed in reverse.

COMPLY **YES** **NO**

6.50X ADDITIONAL LIGHTING

Two Maglite brand "D" size rechargeable flashlights shall be provided and hardwired. Location: behind the map box.

COMPLY **YES** **NO**

7 SUPPORTING DOCUMENTATION

7.01 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 Load Test.
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.

COMPLY	YES	NO
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8 MISCELLANEOUS EQUIPMENT

8.01 LOOSE EQUIPMENT

The following equipment shall be shipped loose with the vehicle:

1. Touch up paint, one bottle each:
 - White (PW7) (GLV-11291704)
2. Cord end for shoreline
3. Oxygen cylinder wrench
4. Antenna coax ends
5. Spare tire & wheel
7. Rear rail clamp

COMPLY	YES	NO
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8.02 CUSTOMER-SUPPLIED EQUIPMENT

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

1. Interconnect cables for a Motorola XL2500 dual head radio
2. Stryker #6390 Power-LOAD cot fastener system with rear rail clamp

COMPLY	YES	NO
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9 Appendix A

The customer shall provide the following alternate chassis configuration bid:

OEM CHASSIS

- 2018 Ford F-450, 4 x 4, meeting all the specifications of Section 1.01.
 - Ambulance Prep. Package
 - EPA Special Emergency Vehicle Emissions
 - 3 year/36,000 mile Bumper-to-Bumper warranty
 - Dual rear wheels

- Provided by Braun Northwest

9.01.01 SPECIFIC RATINGS

- Drive – 4 x 4
- G.V.W.R. – 16,500 lbs.
- Front Axle – 7,000 lbs.
- Rear Axle – 12,000 lbs.
- Wheelbase – 169"
- Cab to Axle – 84"
- Curb Weight – 11,500 lbs. approximate
- Front Spring Capacity – 7,000 lbs.
- Rear Spring Capacity – 12,000 lbs.
- Rear Differential – 4.10 ratio, limited slip wide track rear axle

9.01.02 POWER TRAIN

- Engine
 - 6.7L 4V Power Stroke V8 turbo diesel B20
 - Diesel Emission Fluid (DEF) system with operator-commanded regeneration
 - 5 year/100,000 mile warranty
 - External oil cooler
 - Factory diesel package
 - 1,000 watt engine heater
 - Heavy duty dry type air cleaner with flow restriction indicator
 - Stationary Elevated Idle Control integrated in engine control module
- Engine Cooling System
 - Heavy duty, closed-air, free-liquid state type
 - Coolant recovery system
 - 50/50 solution Permanent type antifreeze to –40 degrees F
- Transmission
 - TorqShift 6-speed automatic overdrive transmission
 - Tow/Haul Mode with Integrated Exhaust Brake
 - External oil cooler in chassis grille area
 - Electronic Shift on the Fly with auto-locking wheel hubs
- Exhaust System
 - System complies with Federal Motor Carrier Safety Regulations, Part 393.83
 - Suspended using three (3) hangers, excluding manifold attachment
 - Discharge at right rear side of module
 - Tailpipe shall not terminate within twelve (12) inches of the vertical axis of the fuel tank filler opening.

9.01.03 STEERING

- Power-assisted tilt steering wheel

9.01.04 SHOCK ABSORBERS/STABILIZER BARS

- Heavy-duty shock absorbers front and rear
- OEM front and rear stabilizer bars

9.01.05 BRAKES

- Heavy duty power-assisted four wheel ABS; front and rear disc
- Front 14.53" diameter; Rear 15.35" diameter

9.01.06**TIRES AND WHEELS**

- Seven (7) OEM LT 225-70Rx-19.5G all-season steel belted radials
- Seven (7) OEM 19.5" steel wheels
- OEM jack and tire changing tools
- Spare tire and wheel shipped loose

9.01.07**ELECTRICAL**

- Alternators – OEM Dual rated at 377 Amps total
- Batteries – OEM Dual 750 CCA each
- Stationary Elevated Idle Control

9.01.08**INSTRUMENT PANEL AND CONTROLS**

- Gauges
 - Tachometer
 - Coolant Temperature
 - Transmission Fluid Temperature
 - Fuel
 - Speedometer
 - Indicator lights
 - Odometer/Trip Odometer
 - Turbocharger Boost
- Controls – Cruise
- Audio – OEM AM/FM/CD/SiriusXM radio with 6 month prepaid subscription
- SYNC 3 Voice-Activated communications and entertainment system with AppLink and instrument panel compass display
- 8" LCD productivity Screen in IP Cluster with Compass Display
- (2) USB Ports
- **Rearview Camera and Prep Kit (872)**

9.01.09**CAB EXTERIOR**

- Trim Level – XLT
- Horn – OEM dual electric
- Windows – Tinted safety glass
- Windshield wipers – Two-speed electric, washer and intermittent speed control
- Mirrors
 - Two (2) black, below eye level, manually telescoping trailer tow
 - Power, heated glass, upper portion
 - Turn indicators and clearance lights on outside edge
 - Lower portion convex
- Bumper – Chrome
- Tow hooks – Two (2) front
- Mud flaps – Two (2) front
- Lights
 - Headlamps – Single beam jewel effect
 - Roof clearance light
 - Under hood service light
- Fuel – OEM 40 gallon tank

9.01.10

CAB INTERIOR

- Trim Level – XLT
- Seats – OEM
 - Cloth 40/20/40
 - Combination lap and shoulder harness
 - Side door armrest
- Flooring – Black vinyl
- Climate control – OEM
 - Heavy duty, fresh air, high capacity heater/defroster
 - Dehumidifying air conditioning system
- Airbags
 - Driver and right-front passenger front
 - Front-seat side
 - Safety canopy system with roll-fold side curtain airbags
- Other
 - Padded sun visors, dash, and door panels
 - Molded cloth headliner
 - Reduced sound package
 - Dome light, with dual map lights
 - Auxiliary power point
 - Interior hood release
 - Power door locks & windows
 - Remote keyless entry
 - Adjustable gas and brake pedals

9.01.11

COLORS

- Exterior – Oxford White (Z1)
- Interior – Gray