

Town of Cathlamet



REQUEST FOR PROPOSALS

The Town of Cathlamet will accept proposals from qualified persons or contractors interested in providing the following:

Emergency Vehicle Bid (2024 or 2025 Model Year)

**PROPOSALS MUST BE RECEIVED BY:
12:30 PM Thursday, May 23rd, 2024**

Bids will be opened immediately thereafter.

Bids must be in a sealed envelope, clearly marked with the bidder/company name and "EMERGENCY VEHICLE BID #2024-03" on the outside

PLEASE SUBMIT YOUR PROPOSAL BY MAIL OR HANDDELIVER TO:

Town of Cathlamet
25 Broadway St.
PO Box 68
Cathlamet, WA 98612

The Town of Cathlamet reserves the right to reject any and all proposals and to select the proposal(s) deemed most advantageous to the Town.

Published May 2, 2024

TABLE OF CONTENTS

1. CALL FOR BIDS	4
2. INTRODUCTION	4
3. REQUEST FOR PROPOSALS	4
4. SPECIFICATIONS	4
4.1 EXCEPTIONS:	5
5. DELIVERY REQUIREMENTS	5
5.1 FOB POINT:	5
5.2 TITLE:	5
5.3 TEMPORARY REGISTRATION:	5
6. WARRENTY	5
7. AGREEMENT AND TERMS	5
7.1 AGREEMENT:	5
7.2 TERMS:	5
8. BID SHEET	6
9. SPECIFICATIONS	7
10. EXCEEDS/ DEVIATES EXCEPTIONS	40

PUBLICATION

TOWN OF CATHLAMET, WASHINGTON

1. CALL FOR SEALED BIDS – Emergency Vehicle Bid

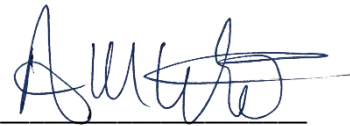
NOTICE IS HEREBY GIVEN that sealed bids for (1) new (2024 or 2025 model year) Type 1 Ambulance, meeting or exceeding all applicable federal statutes, rules, and regulations related to the manufacture or construction of ambulances will be received by the Town of Cathlamet, at its office, 25 Broadway Street, Cathlamet, Washington 98612 until the hour of 12:30 P.M local time on Thursday, May 23rd, 2024, and thereafter shall be publicly opened and read.

Bids must be in a sealed envelope, clearly marked with the bidder/company name and “**EMERGENCY VEHICLE BID #2024-03**” on the outside. A bidder packet is available online at <https://www.townofcathlamet.com/bidding-roster>. Bidders are advised to carefully review the Town’s specifications. Complete specifications may be obtained by contacting Project Manager, Annie Watters, 25 Broadway Street, telephone: (360) 795-3203 x4, email: projectmanager@townofcathlamet.com.

The Town is seeking the bid that is in the best interests of the Town, including, but not limited to, cost and quality of the product. The Town will be the sole and exclusive judge of what is the best bid, all factors considered. The Town of Cathlamet reserves the right to reject any or all bids, to waive informalities in the bidding and to award the bid to the lowest responsible bidder. All bids submitted shall include the date of delivery. Material differences in time of delivery may be considered by the Town in determining the lowest and best bid.

Any questions concerning this project should be directed to: Project Manager Annie Watters via email at projectmanager@townofcathlamet.com.

DATED this 29th day of April, 2024.



Annie Watters, Project Manager

Date of Publication: May 2nd 2024

2. INTRODUCTION

The Town of Cathlamet, Washington is soliciting quotes from qualified persons or contractors interested in providing a new ambulance. This ambulance will meet all specifications. The Town reserves the right to reject any and all proposals and to select the proposal(s) deemed most advantageous to the Town. Bidders are requested to propose the best and most cost-effective solution, while ensuring a high level of service.

3. REQUEST FOR PROPOSALS

The Town requests persons or firms submit a proposed scope of services and qualifications that identify a general description of the persons or firms service approach, ability to provide adequate equipment and personnel for these proposed services, their experience and availability, any applicable licenses or certifications that are required by state law and in compliance with statutes and rules relating to contracts or services.

4. SPECIFICATIONS

Detailed specification sheets for this unit are included in this Invitation to Bid (ITB). Unless otherwise specifically provided in this bid request, reference to any equipment, material, article, or patented process by trade name, make, model or catalog number in these specifications shall be regarded as establishing a standard of quality, and shall not be construed as limiting competition and equal products may be substituted if approved in writing by the Town of Cathlamet. Equivalency will be determined by the Town, and the decision of the Town shall be final and conclusive.

- All units listed in this Invitation to Bid shall be new and the latest model available from the manufacturer in an undamaged condition.

4.1 EXCEPTIONS

The following chassis and body specifications shall be strictly adhered to. Exceptions will be allowed if they are equal to or superior to that specified and provided, they are listed and fully explained on a separate page entitled "EXCEPTIONS TO SPECIFICATIONS". Exception lists shall refer to the specification page number.

5. DELIVERY REQUIREMENTS

The following requirements apply to the delivery of any unit that may result from the award of a bid. Any deviation from these requirements may result in a delay in the processing of an invoice for payment. All equipment shall remain the property of the seller until delivered to and accepted by the Town of Cathlamet. Equipment supplied by the Town of Cathlamet shall remain the property of the Town of Cathlamet.

5.1 FOB POINT

255 2ND Street Cathlamet, Washington 98612

5.2 TITLE

All Certificates of Origin/Title Work shall list the Town of Cathlamet as the owner using the address below: Town of Cathlamet, 25 Broadway Street, PO Box 68, Cathlamet, Washington, 98612

5.3 TEMPORARY REGISTRATION

When applicable, the unit shall be delivered with a temporary registration card and plate issued by the State of Washington. Temporary registration documents must be valid for a minimum of thirty (30) days from the delivery date.

6. WARRANTY

A copy of all applicable warranties including the electrical system, body module structure and paint shall be furnished with each bidder's proposal.

7. AGREEMENT AND TERMS

7.1 Agreement:

Prospective bidder(s) are advised that the following documentation is to be included and made a part of the bid submission. The Town of Cathlamet reserves the right to disqualify any bidder(s) who are in non-compliance with this provision.

Bid Bond: A five percent (5%) Bid Bond issued by a bonding company licensed to conduct business in the state of Washington is required for base vehicle price and shall be provided as part of the bid package. Bid bond will be made out to the Town of Cathlamet as coordinator of this bid unless otherwise indicated or approved.

The manufacturer of this vehicle:

- Shall be a Participating Member of the National Truck Equipment Association's Ambulance Manufacturers Division and submit a copy of his membership certificate as part of the bid proposal.
- Shall carry not less than five million dollars (\$5,000,000.00) in product liability insurance, listing the Town of Cathlamet as additional insured, and shall submit a copy of this insurance with the bid proposal.
- Shall possess a Washington Motor Vehicle Department license as a Manufacturer of Motor Vehicles and shall provide a copy of the license with the bid proposal.
- Shall be or have a Washington Dealer Representative who shall possess a Washington Motor Vehicle Dealers license and shall provide a copy of the license with the bid proposal.
- Shall employ full-time parts personnel with toll-free access number.
- Shall employ a full-time electrical troubleshooter with toll-free access number.
- Shall employ a full-time warranty representative with toll-free access number.
- Bidder shall submit how warranty service claims will be handled in the State of Washington.

7.2 Terms:

Contracts will be negotiated with persons or firms upon which an agreement of offer has been made. The contract shall be for the 2024 calendar year or until the completion of the build. Vendors shall have a named contact person who can resolve issues as they arise.

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.

PLEASE SUBMIT PROPOSALS TO:

**Town of Cathlamet
25 Broadway Street
PO Box 68
Cathlamet, WA 98612**

The Town of Cathlamet shall not discriminate against, or grant preferential treatment to, any individual or group on the basis of race, sex, color, ethnicity, or national origin in the operation of public contracting.

8. BID SHEET

Bids not submitted on this form will be considered informal and unacceptable. The undersigned, having a principal place of business at:

Name of company: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone Number: _____

And being experienced and responsible for the performance of same, propose to furnish the following vehicle to the specifications hereto annexed:

Manufacturer's name: _____

Manufacturer's location (City/State): _____

Number of years manufacturing proposed vehicles: _____

Total bid for 1 new commercially built type 2 modular ambulance as specified

Total Price excluding Washington State Sales Tax FOB Cathlamet WA (Base Bid)

\$ _____

Applicable state and local Sales Tax: \$ _____

Total bid, F.O.B. Cathlamet Washington:

\$ _____

Drive out allowance included in above price: \$ _____

Delivery: Calendar days after receipt of order _____

It is understood that the attached bid specifications, including all instructions and conditions contained herein, shall be considered part of a contract if an award is made, and by submission of this bid, the bidder (signed below) agrees to abide by these specifications in their entirety.

Signature of corporate officer

Date

Name of corporate officer (print or type)

Title

Pre-Build/ Inspection visit allowance: _____

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

The price quoted above shall remain firm until 06/30/2024.

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.

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.

9. GENERAL SPECIFICATIONS

**CATHLAMET FIRE DEPARTMENT
CATHLAMET, WASHINGTON**

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

COMPLY **YES** **NO**

0.02 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. Bidder's ability to service vehicles for this agency.
5. Cost of vehicles after adjustments for exceptions taken.

COMPLY **YES** **NO**

0.03 Emergency vehicles 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 emergency vehicle and the purpose for which it is intended.

COMPLY **YES** **NO**

0.04 The emergency vehicle 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 member of NTEA (National Truck equipment Association)

Name _____

Address _____

Phone _____

COMPLY **YES** **NO**

0.05 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**

0.06 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**

- 0.07** The manufacturer shall supply one (1) copy of parts, service, and operational manuals at delivery of the proposed emergency vehicle. Manuals shall include "As Built" body wiring diagrams.
- COMPLY** YES NO
- 0.08** 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
- 0.09** Bids shall be addressed and submitted in accordance with the "Call For Bid Cover Letter". Bid envelope must be identified with the words "**Emergency Vehicle Bid**", the opening date, and time on the face of the envelope.
- COMPLY** YES NO
- 0.10** 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
- 0.11** 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
- 0.12** 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
- 0.13** 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
- 0.14** 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
- 0.15** 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
- 0.16** 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. 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.

0.17 Proposals taking total exception to specifications will not be accepted.

COMPLY YES NO

0.18 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

0.19 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

0.20 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

0.21 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

0.22 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

0.23 All bidders shall provide bid security in the amount of ten percent (5%) 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

0.24 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.

COMPLY YES NO

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

0.25 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
--------	-----	----

0.26 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
--------	-----	----

0.27 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 RCW 39.34.

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.

DETAILED SPECIFICATIONS FOR CATHLAMET FIRE DEPARTMENT CATHLAMET, WASHINGTON

1. CHASSIS

1.01 OEM CHASSIS (Note: Model Year subject to changes)

- 2024 (or latest model year) Ram 4500 (or equal) Regular Cab 4 x 4, meeting all the specifications of Section 1.01
 - 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 Manufacturer

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

1.01.01 SPECIFIC RATINGS

- Drive – 4 x 4
- G.V.W.R. – 16,500 lb
- Front Axle – 7,000 lb
- Rear Axle – 12,000 lb
- Wheelbase – 192.5"
- Cab to Axle – 108"
- Front Spring Capacity – 7,250 lb
- Rear Spring Capacity – 12,000 lb
- Rear Differential – 4.10 ratio, Anti-Spin Differential Rear Axle

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

1.01.02 POWER TRAIN

- Engine
 - 6.7L I6 Cummins Turbo diesel, B-20 Bio Diesel capability with manual regen
 - Diesel Emission Fluid (DEF) System
 - Engine Block Heater (Cold Weather Group)
 - Diesel exhaust brake
- Heavy duty type air cleaner
- Engine Cooling System
- Transmission
 - Six speeds Heavy Duty Automatic, AISIN AS69RC
 - Auxiliary transmission oil cooler
- Exhaust System
 - System complies with Federal Motor Carrier Safety Regulations, Part 393.83
 - Suspended using three hangers, excluding manifold attachment
 - Discharge at right rear side of module
 - Tailpipe shall not terminate within twelve inches of the vertical axis of the fuel tank filler opening.

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

1.01.03 STEERING

- Power Steering
- Tilt steering wheel

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

1.01.04 SHOCK ABSORBERS/STABILIZER BARS

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

COMPLY YES ___ NO ___

1.01.05 BRAKES

- Heavy duty power assisted four-wheel ABS; Front and rear disc
- Electronic Stability Control
 - Trailer Sway Damping
 - Hill Start Assist
 - Traction Control

COMPLY YES ___ NO ___

1.01.06 TIRES AND WHEELS

- Seven OEM 225/70R19.5G Front All Position, Rear Traction tires
- Seven OEM 19.5" steel wheels
- Spare tire and steel wheel shipped loose

COMPLY YES ___ NO ___

1.01.07 ELECTRICAL

- Alternators – OEM Dual 220 Amp each (440 total)
- Batteries – OEM Dual 730 CCA each
- Voltage Monitoring Auto Idle-Up System

COMPLY YES ___ NO ___

1.01.08 INSTRUMENT PANEL AND CONTROLS

- Push-Button Start
- Gauges
 - Speedometer
 - Tachometer
 - Fuel Level
 - Coolant Temperature
 - Oil Pressure
 - Voltmeter
 - Diesel Exhaust Fluid (DEF)
- Information Center
 - Odometer/Trip Odometer
 - Engine Hour Meter
 - Diesel engine warning lights
- Cruise Control
- Audio – OEM AM/FM, Uconnect 3.0 with BlueTooth, audio input jack
- Dual USB port
- 12VDC auxiliary power outlet

COMPLY YES ___ NO ___

1.01.09 CAB EXTERIOR

- Trim Level – Tradesman
- Chrome Appearance Group
 - Chrome bumper
 - Chrome grille
- Wheel Flares – Front, Black

- Tow Hooks – Two Front
- Horn – OEM dual note electric
- Windows – Tinted safety glass
- Windshield wipers – Variable, Intermittent
- Mirrors
 - Two black, Manual Folding Trailer Tow with convex
 - Supplemental signals and courtesy lamps
 - Power, heated glass
- Lighting
 - Halogen headlamps, Quad, automatic
 - Daytime running headlamps, low beam
 - Clearance lamps
- Fuel tank – OEM 52 Gallons

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

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
 - Cloth headliner
 - Cloth sun visors
 - Interior Day/Night rearview Mirror
 - Map Light
 - Upgraded Door trim
 - Black vinyl floor covering
 - Power windows & power door locks
 - Remote keyless entry with fob
 - Anti-theft system

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

1.01.11 COLORS

- Exterior – Bright White (PW7)
- Interior – Black/Diesel Gray

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

1.02 CHASSIS MODIFICATIONS

The following modifications will be made to the chassis by Manufacturer.

1.02.03 SIMULATORS/VALVE EXTENDERS

Stainless steel wheel simulators shall be installed on all outer wheels, with braided valve stem extenders installed for the two rear inner wheels.

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

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
--------	-----	----

1.02.05 RUNNING BOARDS

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 for a Ram 4500 regular cab chassis 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 ¼"-20 truss head bolts.

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

1.02.08 RECOVERY EYES

Two rear recovery eyes, rated at 10,000 lb per pair, shall be installed in 6.75"W x 6.75"H x 4.375"D recessed pockets, located in the rear kick panel (Section 4.06 related). Eyes shall be 1.8125"D, bolted to frame. These eyes shall not be used for towing or lifting of emergency vehicle.

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

1.02.09 MUD FLAPS

Mud flaps with the manufacturer logo shall be installed behind rear wheels.

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

1.02.14 SUSPENSION

A LiquidSpring rear 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 labeled "DUMP OVERRIDE" shall be installed 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
--------	-----	----

1.02.18 BUMPER/GRILLE GUARD

A Laverne Prowler aftermarket steel grille guard in black powdercoated finish shall be installed on the front of the chassis.

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 (Section 3.04.01 related), with a 16"W x 12.5"H opening on the cab side with a sliding clear polycarbonate window, with a 16"W x 15"H opening on the module side

A stainless-steel cover shall be installed to protect the bottom of the pass-thru (Section 2.13 related).

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 15ifetimee 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-H22
Stainless Steel	16 ga., 20 ga.	304 # 4B

COMPLY YES NO

2.02 MODULE DIMENSIONS

Drop Skirt	4.00 "
------------	--------

Overall Vehicle Dimensions (Specifications are listed as minimums.)

Length	25 '	5 "	305.00 "
Width (excluding mirrors)	8 '	0 "	96.00 "
Height (Approximate)	9 '	6.25 "	114.25 "

Exterior Module Dimensions (Specifications are listed as minimums.)

Length	14 '	3 "	171.00 "
Width	8 '	0 "	96.00 "
Height	7 '	8.37 "	92.37 "

Interior Dimensions (Specifications are listed as minimums.)

Length	Forward Wall to Rear Wall	163.00 "
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	33.25 "

COMPLY YES NO

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 seam.

COMPLY YES NO

2.06 EXTERIOR SKIN

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

2.07 MODULE ROOF

In order to improve module strength and minimize exposed seams, the roof shall be seamed transversely, shall be crowned, shall have a 1.5" radius along the edges, and shall 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 and body-worked on the outside. 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
--------	-----	----

2.08 MODULE EXTERIOR COMPARTMENTS

All compartments shall be constructed from formed 0.125" aluminum, 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 track, which is securely welded to compartment interiors. Each shelf shall support at least 300 lb of equipment.

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

COMPARTMENT #1

Interior Dimensions – 56"W x 44"H x 20"D

Doorway Dimensions – 56"W x 44"H

Location – Streetside, forward

Shelving – One adjustable

Door(s) – Double

Light(s) – One LED strip light (Section 6.26 related)

Additional Instructions –

1. The 120VAC Power Box shall be installed in the forward wall (Section 6.21 related), recessed so as not to protrude into the compartment.
2. A Samlex 1200-watt inverter with a 60-amp battery charger shall be installed with a perforated aluminum surround on the floor of this compartment (Section 6.31 related). For ventilation, a soffit vent shall be installed on the back wall, in line with the inverter.
3. A vent with MERV 8 polyester filter media and hex-punched stainless-steel cover shall be installed on the forward wall.

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

COMPARTMENT #2

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

Doorway Dimensions – 20"W x 72"H

Location – Streetside, aft

Shelving – Two adjustable

Door(s) – Single

Light(s) – One LED strip light (Section 6.26 related)

Additional Instructions –

1. A boot-shaped bracket shall be installed by MANUFACTURER in this compartment for storage of a **customer-supplied-and-installed** stair chair (Section 4.27 related).
2. Three vertical strips of heavy-duty aluminum shall be installed on the back wall, lower, for mounting the boot-shaped stair chair bracket.

- A vent with MERV 8 polyester filter media and hex-punched stainless-steel cover shall be installed on the aft wall.

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

COMPARTMENT #3

Interior Dimensions – 26"W x 74"H x 20"D

Doorway Dimensions – 26"W x 72"H

Location – Curbside, aft

Shelving – None

Door(s) – Single

Light(s) – One LED strip light (Section 6.26 related)

Additional Instructions –

- A Zico #QR-OTSL-U oxygen cylinder lift shall be installed in this compartment for storage of a **customer-supplied-and-installed** H or M-size cylinder (Section 4.10 related).
- A raise/lower switch shall be installed on the forward wall.
- Two backboard restraining straps shall be installed on the aft wall.
- A formed stainless steel gasket cover shall be installed on the lower doorframe edge so that backboards do not cut gasket material.
- A vent with MERV 8 polyester filter media and hex-punched stainless-steel cover shall be installed on the aft wall.

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

COMPARTMENT #4

Interior Dimensions – 23"W x 30"H x 20"D

Doorway Dimensions – 21"W x 30"H

Location – Curbside, rear, aft of wheel well

Shelving – One adjustable

Door(s) – Single

Light(s) – One LED strip light (Section 6.26 related)

Additional Instructions – None.

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

COMPARTMENT #5 – Inside/Outside Access

Interior Dimensions – 22.75"W x 73.25"H x 28"D

Doorway Dimensions – 22.75"W x 73.25"H

Location – Curbside, forward

Shelving – See Interior Cabinets #20 and #21

Door(s) – Single

Light(s) – One LED strip light (Section 6.26 related)

Additional Instructions –

- This compartment shall provide inside/outside access to Cabinets #20 and #21 with a full width stainless-steel threshold on the floor level shelf.
- There shall be general storage located below the floor.

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 FRAME 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

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 at each end. 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 side-hinged doors shall be hinged on the forward sides, and all rear side-hinged doors shall be hinged on the outboard sides.

COMPLY YES NO

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

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

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

2.09.06 REAR DOOR CONTROL

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

COMPLY YES NO

2.09.07 COMPARTMENT DOOR SKINS

Each compartment door skin 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. Door skins 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

2.09.08 ENTRANCE DOOR SKINS

Each entrance doorskin shall be made of 0.080" bright aluminum diamond plate and be removable to service door hardware. A removable stainless-steel bezel shall be installed at mid-height on the door skin to provide access to the latch hardware and electric lock motors (Section 6.40 related). Red/white 1.5" conspicuity tape shall be installed on the top, bottom, and vertical edges of the side passage door and curbside rear door. The streetside rear door shall have conspicuity tape on the top and bottom edges.

An override switch labeled "AUTO/OFF" shall be installed on the curbside door latch bezel to prevent the step from being extended (Section 4.17 related).

COMPLY YES NO

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

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

2.10 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 track.

COMPLY YES NO

CABINET #1

Dimensions – 63"W x 13.75"H x 15.75"D

Location – Streetside upper, forward

Shelving – Two adjustable, one forward and one aft of divider

Door(s) – Sliding clear 0.25" polycarbonate with felt-lined anodized aluminum track, interlocking aluminum trim, and full extruded aluminum door pulls with integral door latch

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

Additional Instructions –

1. The cabinet shall have a fixed divider in the center with one adjustable shelf forward and one adjustable shelf aft.
2. An IV fluid warmer with a 4" surround shall be installed in the aft portion of this cabinet (Section 6.35 related).
3. One 120VAC GFCI duplex receptacle shall be installed on the back wall of the cabinet, to supply power for the fluid warmer (Section 6.21 related).

COMPLY YES NO

CABINET #2 – Glove Storage

Dimensions – 42.5"W x 5.5"H x 4.5"D

Location – Streetside

Shelving – None

Door(s) – Bottom-hinged, painted aluminum with a black quarter-turn latch and four cut-outs

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

Additional Instructions –

1. This cabinet shall provide storage for four glove boxes in a horizontal orientation (Section 5.32 related).

COMPLY YES NO

CABINET #3

Dimensions – 14.25"W x 13.75"H x 15.75"D

Location – Streetside aft, upper

Shelving – One adjustable

Door(s) – Top-hinged clear 0.25" polycarbonate door with gas-shock hold-open device, twist-slam latch, and extruded aluminum door pull

Additional Instructions – None.

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

CABINET #4

Dimensions – 19.75"W x 24"H x 20"D

Location – Streetside, aft of seating area

Shelving – Two adjustable

Door(s) – Sliding clear 0.25" polycarbonate with felt-lined anodized aluminum track, interlocking aluminum trim, and full extruded aluminum door pulls with integral door latch

Additional Instructions – None.

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

CABINET #5 – Action Area

Dimensions – 73.25"W x 26.75"H x 20"D

Location – Streetside

Additional Instructions –

1. An oxygen outlet, attendant control panel, inverter status panel, digital thermostat, three 120VAC GFCI duplex receptacles, 12VDC power point receptacle, and dual USB charging port shall be installed on the Action Area wall (Sections 5.11, 5.17, 6.13, 6.21, 6.25 and 6.31 related).
2. A Voyager VOM719WP 7" monitor, and mount shall be installed on the wall (Section 6.46 related); monitor shall have an integral on/off power button.
3. An SSCOR #VX-2 portable suction unit with 12VDC wall-mount charging/retention bracket shall be installed on the wall, above the aft end of countertop (Section 5.13 related)
4. The counter top shall be one-piece 16 ga., 304 stainless-steel with a 0.5" aluminum retaining lip and aluminum cove trim along the wall.

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

CABINET #6

Dimensions – 27"W x 24"H x 16.75"D

Location – Streetside, forward of Action Area

Shelving – Two adjustable

Door(s) – Sliding clear 0.25" polycarbonate with felt-lined anodized aluminum track, interlocking aluminum trim, and full extruded aluminum door pulls with integral door latch

Additional Instructions –

1. A prewire from the power component module shall be run to this cabinet, coiled loose behind the cabinet closeout (Section 6.18 related).

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

CABINET #7 – Radio Cabinet

Dimensions – 10"W x 27.75"H x 19.5"D

Doorway Dimensions – 8"W x 27.75"H

Location – Streetside, forward

Shelving – None

Door(s) – Side-hinged painted aluminum door with a twist/slam latch and precision punched ventilation panels

Additional Instructions –

1. This cabinet is intended for radio component storage and shall be supplied with access to electrical component panel.
2. Two antenna cables shall terminate in this cabinet (Section 6.19 related)

COMPLY YES NO

CABINET #8

Dimensions – 10"W x 25"H x 19.5"D

Doorway Dimensions – 8"W x 25"H

Location – Streetside, forward

Shelving – Two adjustable

Door(s) – None

Additional Instructions –

1. This cabinet is intended for storage of miscellaneous items/equipment.

COMPLY YES NO

CABINET #9 – Streetside Attendant Seating Area

Dimensions – 54.75"W x 20"D

Location – Streetside

Additional Instructions –

1. A USSC Valor high-back forward/side-facing attendant seat, with a black four-point single buckle seat belt with individual automatic locking retractor and upholstered with Morbern Dauphine Ash DA-322 Vacform upholstery shall be installed in this location (Section 5.10 related). Seat shall swivel, and be securely anchored to a USSC low-rise swivel base.
2. An 18.75" x 37.5" window with sliding glass, a positive catch, and a screen shall be installed on the streetside wall, above the seating area (Section 4.08 related).
3. A slide-out easy-access tray shall be installed behind the attendant seat to hold one sharps and one waste container (Section 5.26 related).

COMPLY YES NO

CABINET #10

Dimensions – 19.75"W x 24"H x 20"D

Location – Streetside, aft, lower

Shelving – Two adjustable

Door(s) – Sliding clear 0.25" polycarbonate with felt-lined anodized aluminum track, interlocking aluminum trim, and full extruded aluminum door pulls with integral door latch

Additional Instructions – None.

COMPLY YES NO

CABINET #11

Dimensions – 23.875"W x 12"H x 10"D

Location – Curbside upper

Shelving – One adjustable

Door(s) – Top-hinged clear 0.25" polycarbonate door with gas-shock hold-open device, twist-slam latch, and extruded aluminum door pull

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

Additional Instructions – None.

COMPLY YES NO

CABINET #12

Dimensions – 23.875"W x 12"H x 10"D

Location – Curbside upper

Shelving – One adjustable

Door(s) – Top-hinged clear 0.25" polycarbonate door with gas-shock hold-open device, twist-slam latch, and extruded aluminum door pull

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

Additional Instructions – None.

COMPLY YES NO

CABINET #13

Dimensions – 23.875"W x 12"H x 10"D

Location – Curbside upper

Shelving – One adjustable

Door(s) – Top-hinged clear 0.25" polycarbonate door with gas-shock hold-open device, twist-slam latch, and extruded aluminum door pull

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

Additional Instructions – None.

COMPLY YES NO

CABINET #14 – Glove Storage

Dimensions – 27.25"W x 6.75"H x 4.5"D

Location – Curbside, above side passage door

Shelving – None

Door(s) – Bottom-hinged, painted aluminum with a black quarter-turn latch and three cut-outs

Additional Instructions –

1. This cabinet shall provide storage for three glove boxes in a horizontal orientation (Section 5.32 related).

COMPLY YES NO

CABINET #15 – Cylinder Storage

Dimensions – 13"W x 25"H x 5.25"D

Location – Right front stack, aisle-facing

Shelving – None

Door(s) – Tip-out bottom-hinged painted aluminum door with a Southco C2 latch and nylon travel stop strap

Additional Instructions –

1. This cabinet shall provide storage for two **customer-supplied-and-installed** D-sized oxygen cylinders (Section 5.35 related).
2. A stainless-steel spring with dual flaps shall be installed to prevent cylinder rattling.

COMPLY YES NO

CABINET #16 – Glove Storage

Dimensions – 27.25"W x 6.75"H x 4.5"D

Location – Curbside, above side passage door

Shelving – None

Door(s) – Bottom-hinged, painted aluminum with a black quarter-turn latch and four cut-outs

Additional Instructions –

1. This cabinet shall provide storage for four glove boxes in a vertical orientation (Section 5.32 related).

COMPLY YES NO

CABINET #17 – Squad Bench with Storage

Dimensions – Bench: 75.625"W x 18.75"H x 20"D

Storage: 66"W x 7.625"H x 20"D

Location – Curbside

Door(s) – Hinged aluminum bench split-lid, with high-density foam padding covered with seamless vinyl shall provide access to the storage area. It shall have a 1.5" overhang, and two automatic hold-open devices. The pads shall be removable.

Additional Instructions –

1. The squad bench back and/or head pads shall have high density foam padding covered with seamless vinyl.
2. The squad bench base shall be formed from aluminum and securely anchored to sub-floor. The bottom and sides of the storage area shall be sprayed with textured gray polyurea thermoplastic elastomer and painted white with gray splatter.
3. Two sets of four-point single buckle harnesses and one two-point automatic locking retractor seatbelt shall be installed on the squad bench for sit-up occupants and three lower seatbelt buckle ends shall be set up for use with stretcher patients (Section 5.14 related).
4. An oxygen outlet, momentary dome timer switch, and attendant panel shall be mounted on the wall above the forward end of the bench (Sections 5.11, 6.13, and 6.16 related).
5. One Becton Dickinson 6.9 qt. sharps container and one 7 qt. waste container shall be installed at the forward end of the bench, with a hinged clear polycarbonate cover with a finger hole (Section 5.26 related). Cover shall be level with the bench seat pad.
6. An 18.75" x 37.5" window with sliding glass, a positive catch, and a screen shall be installed on the curbside wall, above the bench (Section 4.08 related).

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

CABINET #18 – HVAC

Dimensions – 35.75"W x 16.5"H x 24.875"D

Location – Right front stack, upper

Additional Instructions –

1. This area shall house the AC/heater (Section 5.17 related).
2. Four vents shall be installed in a vertical plenum on the aisle side of right front stack, spaced evenly.

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

CABINET #19 – Electrical Cabinet

Dimensions – 31.25"W x 13"H x 10"D

Location – Front, above pass-thru

Shelving – None.

Door(s) – Aluminum, hinged, swing up door with a hold-open device, a rotating keyed lock, and an automatic compartment light

Additional Instructions –

1. This cabinet shall house the electrical component module (Section 6.01 related).
2. An atomic-controlled clock shall be installed on the face of the electrical cabinet door (Section 5.24 related).

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

CABINET #20 – Inside/Outside Access (Upper)

Dimensions – 27"W x 26.5"H x 24.875"D

Location – Right front stack

Shelving – One adjustable

Door(s) – Two clear polycarbonate side-hinged doors with pinch latches and extruded aluminum door pulls.

Additional Instructions –

1. This cabinet shall be accessible from the outside via exterior Compartment #5.

2. One 120VAC GFCI duplex receptacle and one 12VDC receptacle shall be installed on the back wall in upper inboard corner (Sections 6.21 and 6.25 related).

COMPLY YES NO

CABINET #21 – Inside/Outside Access (lower)

Dimensions – 27"W x 27"H x 24.875"D

Location – Right front stack

Shelving – One adjustable

Door(s) – Two clear polycarbonate side-hinged doors with pinch latches and extruded aluminum door pulls.

Additional Instructions –

1. This cabinet shall be accessible from the outside via exterior Compartment #5.
2. One 120VAC GFCI duplex receptacle and one 12VDC receptacle shall be installed on the back wall in upper inboard corner (Sections 6.21 and 6.25 related).
3. A Beam #015715 metal wall port shall be installed in the vertical plenum to provide direct heat/AC to a patient (Section 5.17 related). A 12.5ft-long hose shall be shipped loose (Section 8.01 related).

COMPLY YES NO

CABINET #22 – Drawers

Location – Streetside, aft facing

Additional Instructions –

1. A pull-out UHMW work surface shall be install with detent slides above the two drawers.
2. Two 16"W x 5"H x 15"D metal drawers shall be installed in this location. Each drawer shall operate on slides rated at 300 lb 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 0.125" aluminum construction, painted to match the interior.
3. Each drawer shall have machine-stamped divider supports along the sides with four removable ABS dividers per drawer.
4. The bottom drawer shall have a Simplex lock.

COMPLY YES NO

2.11 SIDE DOORSTEP

A recessed curbside double doorstep shall be provided which is 19" deep x 31" wide. 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 the doorstep.

COMPLY YES NO

2.13 CAB TO MODULE PASSAGE

Shall be a pass-thru measuring 16"W x 12.5"H on the cab side, 16"W x 15"H on the module side.

COMPLY YES NO

2.14 WHEEL WELL LINERS

Wheel well liners made of formed aluminum shall be installed in the module wheel well openings.

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. Exterior fasteners used for direct connection to painted aluminum surfaces shall be coated with a corrosion inhibitor.

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/sealant adhesion.

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

3.02 MODULE PRIMER

Module shall be sealed with a two-component, low VOC, direct-to-metal epoxy primer/sealant 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: to match Bright White (GLV-11291701)

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

3.04.01 CHASSIS COLOR

Chassis shall be OEM Bright White (PW7) (Section 1.01.11 related).

The back-of-cab insert shall be covered with black-painted polyurea thermoplastic elastomer.

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 (G2-33631 Alt 2 / GLV-51748).

All shelves and trays shall be sanded, etched, washed, primed, and painted white with light gray splatter paint (G2-33631 Alt 2 / GLV-51748).

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

3.07 INTERIOR CABINETY FINISH

All interior cabinetry shall be sanded, etched, washed, primed, coated with textured polyurea thermoplastic elastomer, and painted white with light gray splatter paint (G2-33631 Alt 2 / GLV-51748).

All drawers, shelves and trays shall be sanded, etched, washed, primed, and painted white with light gray splatter paint (G2-33631 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 (#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 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 0.125" aluminum subfloor and shall be comprised of 0.75" thick polyiso insulation between 0.75" x 0.75" x 0.063" square tubing, covered with a 0.125" aluminum sheet (Section 2.04 related).

Floor covering material shall be seamless and cove up the side walls a minimum of 5" as a seal.

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

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, and a formed 0.090" aluminum closeout shall be welded to the underside of the bumper. 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.

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 0.5"H 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 RAIL

Extruded, anodized aluminum drip rails shall be installed the full length of the module front, rear, and sides near the roof and over each exterior compartment and passage door. 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 with recessed recovery eye pockets and recessed license plate holder 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 (Sections 1.02.08 and 4.16 related).

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. Fill and vent hoses shall be installed and protected in accordance with the chassis bodybuilder recommendations. The OEM DEF tank 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. The side passage door window shall be 18.75" x 18.75" with sliding glass, a positive catch, and a screen. The rear door windows shall be 18.75" x 18.75" fixed glass to prevent exhaust from entering the module.

The streetside and curbside module windows shall be 18.75" x 37.5" with sliding glass, a positive catch, and a screen, and shall be installed above the respective seating area.

COMPLY YES NO

4.09 FUEL SPLASH GUARD

A stainless-steel fuel splash guard shall be installed below the fuel fill.

COMPLY YES NO

4.10 EXTERIOR OXYGEN CYLINDER STORAGE

A Zico #QR-OTSL-U oxygen cylinder lift shall be installed in Compartment #3 for storage of a *customer-supplied-and-installed* H or M-size cylinder.

A raise/lower switch shall be installed on the forward wall.

COMPLY YES NO

4.16 REAR LICENSE PLATE

A recessed license plate holder with dual incandescent lights shall be installed in the rear kick panel, centered below rear doors (Section 4.06 related). A hidden unlock switch shall be installed behind the recessed license plate (Section 6.40 related).

COMPLY YES NO

4.17 ELECTRIC STEP

A Zico VS-24-9 single electric step with a 7.625" drop shall be installed under the curbside passage door and shall be wired to extend and retract with the door.

An override switch labeled "AUTO/OFF" shall be installed on the curbside passage door latch bezel to prevent the step from being extended.

COMPLY YES NO

4.27 STAIR CHAIR STORAGE

A boot-shaped bracket shall be installed by MANUFACTURER in Compartment #2 for storage of a *customer-supplied-and-installed* stair chair.

COMPLY YES NO

4.34 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

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

The headliner shall be 0.125" aluminum which is sanded, etched, washed, primed, and coated with textured polyurea thermoplastic elastomer, and painted white with light gray splatter paint (G2-33631 Alt 2 / GLV-51748).

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

5.03 HEAD PADS/CUSHIONS

Head pads located over all module access openings shall be 1.5" foam covered with heavy-duty seamless vinyl upholstery. Head pads and seat backs for curbside bench seating positions shall be 1.5" foam covered with heavy-duty seamless vinyl upholstery.

Seat cushions shall be 3" foam covered with heavy-duty seamless vinyl upholstery (Section 3.08 related).

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

5.04 LOWER WALL COVERING

The squad bench sides and lower portion of the streetside wall 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"D 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 hanger shall be installed over the primary cot location, one streetside and one curbside.

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

5.08 COT MOUNT

A **customer-supplied** Stryker Power-LOAD #6390 cot fastener system shall be installed by MANUFACTURER (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 floor plate with plastic cover shall be provided and installed for mounting a **customer-supplied-and-installed** Stryker Mass Casualty rear rail clamp. A **customer-supplied** safety hook shall be installed in the Power-LOAD floor plate.

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

5.10 ATTENDANT SEAT

A USSC Valor high-back bucket attendant seat with a built-in child safety seat, black four-point single buckle seat belt with individual automatic locking retractors and upholstered with Morbern Dauphine Ash DA-322 Vacform upholstery 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 be securely anchored to a swivel base on a Valor 6”H riser/cabinet.

A USSC Valor high-back forward/side-facing attendant seat, with a black four-point single buckle seat belt with individual automatic locking retractor retractors and upholstered with Morbern Dauphine Ash DA-322 Vacform upholstery shall be installed near the streetside wall. Seat shall swivel, and be securely anchored to a USSC low-rise swivel base.

COMPLY YES NO

5.11 OXYGEN SYSTEM

The entire oxygen system shall be assembled with certified oxygen hose (1000 PSI burst strength) with brass fittings, be pressure tested, and certified. A 50 PSI regulator shall be included, a bulkhead connector shall be installed in the ceiling of Compartment #3, and one oxygen tank wrench shall be attached to the compartment wall with hook-and-loop tape.

Two Ohio-type outlets shall be installed:

- One in Action Area (#5)
- One on the curbside wall above the squad bench (#17)

One recessed oxygen outlet with 0 – 25 LPM constant flow regulator with barbed outlet shall be installed above the primary cot location, towards streetside with the dial facing aft.

COMPLY YES NO

5.13 SUCTION COLLECTOR

An SSCOR #VX-2 portable suction unit with 12VDC wall-mount charging/retention bracket shall be installed on the Action Area wall (#5).

COMPLY YES NO

5.14 SEAT BELT

Black DOT-compliant seat belt shall be installed at each seating position.

Two sets of four-point single buckle harnesses shall be installed on the squad bench for sit-up occupants, with and one two-point automatic locking retractor seatbelt and three lower seatbelt buckle ends shall be set up for use with stretcher patients.

The Valor attendant seat and streetside Valor attendant seat shall each have a four-point single buckle seat belt with individual automatic locking retractors (Section 5.10 related).

COMPLY YES NO

5.16 INSULATION

The module side, ends, roof, doors, and floor 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 foam plank material of 1.5”, or 0.75” thickness depending upon location and available space.

Roof, doors, wall, and floor insulation shall be polyisocyanurate.

A 3” wide, 60-mil, closed cell polyethylene foam tape shall be used as a thermal break on the inside surface of the wall tubes.

COMPLY YES NO

5.17 MODULE CLIMATE CONTROL SYSTEM

The module HVAC system shall incorporate a combination heating/air conditioning unit with 43,300 BTU/hr. heating and 32,000 BTU/hr. cooling capacity. The unit shall have a 580 CFM fan and controls independent of the cab system. A 12VDC booster pump shall be installed to optimize the heating capacity in the module. A return

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

The module system shall be controllable by a digital thermostat located on the streetside Action Area wall (#5). Four vents shall be installed in a vertical plenum on the aisle side of right front stack, spaced evenly.

A Beam #015715 metal wall port shall be installed in the vertical plenum to provide direct heat to a patient. A 12.5ft hose shall be shipped loose (Section 8.01 related).

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 an opening protected by an aluminum vent cover. The interior chamber of the intake shall be made of aluminum and be 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 air path with an open area equal to at least twice the blower outlet area shall be incorporated into the evaporator closeout.

COMPLY YES NO

5.20 EXHAUST VENT

A motor-powered exhaust vent with a chrome Perko cover shall be located in the curbside rear corner of the module. A momentary contact switch labeled "VENT" shall be installed in each attendant panel to control the on/off function of the exhaust vent (Section 6.13 related). Pressing the top of the switch shall turn on the exhaust vent. Pressing the bottom of the switch shall turn off the exhaust vent.

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 module above the Action Area oxygen outlet.

COMPLY YES NO

5.24 CLOCK

A Digital Display Systems Inc. #BSA-62425 digital clock with red digits shall be installed above the rear doors. An atomic-controlled clock shall be installed on the face of the electrical cabinet door (#19). The clock shall be LCD display and show hours (12/24 selectable), minutes, seconds, date, day, and temperature. Clock is powered by two AA alkaline batteries.

COMPLY YES NO

5.26 SHARPS/HAZARDOUS WASTE CONTAINER

One Becton Dickinson 6.9-Qt. sharps container and one 7-Qt. waste container shall be installed at the forward end of the curbside squad bench, with a hinged clear polycarbonate cover with a finger hole.

COMPLY YES NO

5.29 OXYGEN WINDOW

A 6" x 11" clear polycarbonate oxygen window with knob and self-closing hinges shall be installed on the forward-facing wall at aft end of the curbside squad bench.

COMPLY YES NO

5.32 GLOVE BUTLERS

Storage for four glove boxes shall be provided in Cabinet #2 and in Cabinet #16. Storage for three glove boxes shall be provided in Cabinet #14.

COMPLY YES NO

5.35 INTERIOR CYLINDER STORAGE

Tip-out latching storage for two *customer-supplied-and-installed* D-cylinders shall be provided in Cabinet #15, with a wedge-shaped stainless-steel spring to prevent cylinder rattling.

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 electrical 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 electrical 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 included as part of the enclosed electrical component module located in Cabinet #19.

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

6.02 VOLTMETER/AMMETER

A single display voltmeter/ammeter shall be installed on the side of the console, driver's side, which simultaneously displays voltage and alternator current when the ignition is on (Section 6.09 related). 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
--------	-----	----

6.05 MODULE POWER

Module power shall be controlled by a driver's console-mounted switch labeled "MODULE DISC." which activates an InPower #SSC42-275 solid state contactor (Section 6.09 related). An ignition interlock shall disconnect module power 15 minutes after the vehicle's ignition is turned off. The interlock shall also allow module power to be reactivated independently for 15 minutes by cycling the ignition 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

An SAE J994-compliant self-adjusting back-up alarm shall be installed, with a momentary disable switch labeled "BACK-UP DISABLE" in the driver's console (Section 6.09 related). 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 black-powder-coated formed aluminum shall be installed between the seats. It shall have:

- A map light in the upper right corner (Section 6.11 related)
- A digital voltmeter on the side of the console, facing the driver (Section 6.05 related).
- A cup holder plate with armrests
- A map holder with six mill-finished aluminum dividers
- A faceplate with the following layout:

1.	Passage Compt. D/O Lights	2.	3.	Siren						
Modul Disc.	Emerg. Master	Back-up Disable								
4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.
Lightbar	White Lights	Flasher	Left Scene	Right Scene	Rear Scene	Front Scene	Left Flood	Right Flood	Driving Lights	Dual USB

COMPLY YES NO

6.10 SWITCHES

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

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 LIGHT

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 (Section 6.09 related).

COMPLY YES NO

6.13 CONTROL PANELS

A six-switch control panel shall be located on the streetside wall in the Action Area (#5) with the following switch layout:

1.	2.	3.	4.	5.	6.
Left Dome	Right Dome	Vent	Attendant Light	Blank	Blank

A digital thermostat and an inverter status panel shall be located adjacent to the control panel (Sections 5.17 and 6.31 related).

COMPLY YES NO

A six-switch control panel shall be located on the curbside wall above the forward end of the squad bench (#17) with the following switch layout:

1.	2.	3.	4.	5.	6.
Left Dome	Right Dome	Vent	Attendant Light	Blank	Blank

COMPLY YES NO

6.14 CABINET LIGHTING

The wall area below Cabinets #1, #2 and #11-13 shall be lighted utilizing under-cabinet LED strip lighting. The streetside under-cabinet lighting shall be controlled by an on/off switch labeled "ATTENDANT LIGHT" in the streetside attendant panel, and the curbside under-cabinet lighting shall be controlled by an on/off switch labeled "ATTENDANT LIGHT" in the curbside attendant panel (Section 6.13 related).

COMPLY YES NO

6.15 STEP LIGHT

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

COMPLY YES NO

6.16 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 dual intensity Whelen #80C0EHCR LED recessed lights – one bank of four lights shall be positioned toward streetside and four lights toward curbside. There shall be a control switch for each bank of dome lights in both the streetside and curbside attendant panels (Section 6.13 related). Dome light switches shall be momentary contact HI-LO-OFF switches labeled "LEFT DOME" and "RIGHT DOME". Pressing the top of the switches shall increase intensity. Pressing the bottom of the switches 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.

Four Whelen #M62Tamber Lens Amber turn signal lamps shall be installed, two on the front of the module (one curbside and one streetside) below the below the outboard M9RC flashers, and two on the rear of the module (one curbside and one streetside) below the outboard M9RC flashers (Sections 6.30.01 and 6.30.02 related).

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

6.18 COMMUNICATIONS EQUIPMENT

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

Item #1

Description: Three prewires, including 10 ga. Power and 10 ga. Ground, for future *customer-supplied-and-installed* radio equipment.

Locations:

- One from the power component module to radio cabinet (#5)
- One from the power component module to driver's console
- One from the power component module to Action Area (to be coiled loose behind Cabinet #6 closeout)

Additional Instructions: Prewiring to be capped and labeled at both ends. Wiring shall be installed at the power component module behind the Panduit cover.

6.19 ANTENNA MOUNTS AND CABLES

Two NMO universal antenna mounts with KHFD/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 (#7)

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

6.20 BLOCK HEATER

A block heater, with 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 Kussmaul 20-amp Super Auto-Eject plug with a white cover on a stainless-steel plate with a green indicator light located on the streetside forward corner of the module, and distributed via a formed aluminum power box with an easily removable cover, recessed into the forward wall of the streetside forward compartment (#1).

Circuit breakers shall be installed for overcurrent protection and circuit isolation:

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

All exposed receptacles shall be ground fault circuit interrupting (GFCI) and shall have a power on indicating light.

Six interior 120VAC GFCI duplex receptacles shall be mounted:

- One in cabinet #1, to supply power for fluid warmer
- Three on the streetside Action Area wall (#5)
- One in the right front stack, Cabinet #20
- One in the right front stack, 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 with soldered ends from the module body to the chassis frame.

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

6.23 BATTERY CHARGER

A 60-amp battery charger shall be provided as part of the Samlex Pure Sine 1200-watt inverter system. (Section 6.31 related)

COMPLY YES NO

6.24 BATTERY MODIFICATIONS

Chassis batteries shall be utilized in existing locations.

COMPLY YES NO

6.25 12VDC POWER SUPPLY

Three 12VDC, 15-amp power point receptacles shall be installed:

- One on the streetside Action Area wall (#5)
- One in the right front stack, Cabinet #20
- One in the right front stack, Cabinet #21

Two USB dual charging ports shall be installed:

- One round Blue Sea dual port with cover on the streetside Action Area wall (#5)
- One Blue Sea dual port, switch-insert-style in the driver’s console

All 12VDC power point receptacles, USB charge ports, 12VDC charging circuits, electric air compressors, and cool cabinets, if present, shall be powered from a 12VDC auxiliary bus. An InPower LVD20-100-SPC540 low voltage disconnect switch shall deliver power to the auxiliary bus only when the supply voltage to the vehicle batteries is at or above 13.0 VDC.

COMPLY YES NO

6.26 COMPARTMENT LIGHTING

LED strip lighting shall be installed in each outside compartment, and shall be activated by the respective compartment door switch.

COMPLY YES NO

6.27 EXTERIOR DOOR SWITCHES

Shall be ½” mechanical door switches.

COMPLY YES NO

6.30 EMERGENCY WARNING SYSTEMS

6.30.01 FRONT FLASHERS

Six Whelen M9-Series LED flashers shall be installed on the front of the module, evenly spaced. Pattern curbside to streetside:

- | | |
|------------|---|
| Curbside | #M9RC Clear Lens Red LED flasher |
| | #M9C Clear Lens Clear LED flasher |
| | #M9RC Clear Lens Red LED flasher |
| Center | Voyager #VDMS17B camera and mounting bracket (Section 6.46 related) |
| | #M9RC Clear Lens Red LED flasher |
| | #M9C Clear Lens Clear LED flasher |
| Streetside | #M9RC Clear Lens Red LED flasher |

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

Two Whelen #M62Tamber Lens Amber turn signal lamps shall be installed on the front of the module (one curbside and one streetside) below the outboard M9RC flashers (Section 6.17 related).

COMPLY YES NO

6.30.02 REAR FLASHERS (UPPER)

Seven Whelen M-Series LED lights shall be installed on the rear of the module, evenly spaced. Pattern curbside to streetside:

- | | |
|----------|--------------------------------|
| Curbside | #M9RC Red Lens Red LED flasher |
|----------|--------------------------------|

	#M7AC Clear Lens Amber LED flasher
	#M7ZC LED scenelights (Section 6.30.04 related)
Center	#M7ZC LED scenelights (Section 6.30.04 related)
	#M7ZC LED scenelights (Section 6.30.04 related)
	#M7AC Clear Lens Amber LED flasher
Streetside	#M9R Red Lens Red LED

The red flashers shall be controlled by the "LIGHTBAR" switch on the driver's console (Section 6.09 related). Two Whelen #M62Tamber Lens Amber turn signal lamps shall be installed on rear of the module (one curbside and one streetside) below the outboard M9RC flashers (Section 6.17 related).

COMPLY YES NO

6.30.03 FLASHERS

Four Whelen #M9RC Clear Lens Red LED flashers shall be mounted two each on the curbside and streetside of the module in upper corners.

Two Whelen #M9AC Clear Lens Amber 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

6.30.04 SCENELIGHTS

Four Whelen #M9LZC LED scenelights shall be installed, two each on the curbside and streetside of the module in upper corners. The curbside passage door shall activate the curbside scene lights. The scene lights shall also be controlled by the respective switches on the driver's console (Section 6.09 related).

Two Whelen Pioneer #PFH2 LED flood lights PBH203 semi-recess housing with chrome flange shall be installed, one each on the curbside and streetside of the module centered between the M9 scenelights. The flood lights shall be controlled by the "RIGHT FLOOD" and "LEFT FLOOD" switches on the driver's console (Section 6.09 related)

Two Whelen #PCH1B Pioneer Plus LED work lights with PBH103 semi-recess housing with chrome flange shall be installed on the front of the module (one curbside and one streetside) below the outboard M9RC flashers (Section 6.30.01 related). Lights shall be controlled by the "FRONT SCENE" switch on the driver's console (Section 6.09 related).

Three Whelen #M7ZC LED scene lights shall be installed above the rear doors (Section 6.30.02 related). The rear scene lights shall be controlled by the "REAR SCENE" switch on the driver's console (Section 6.09 related), and shall activate when the rear curbside passage door is opened or when the vehicle is placed in reverse.

COMPLY YES NO

6.30.06 INTERSECTION LIGHTS

Four Whelen #WIONSMCR Clear Lens Red LED flashers with chrome housings shall be installed, one on each cab fender and 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 aftermarket grille guard. Lights shall be controlled by the "FLASHER" switch on the driver's console (Section 6.09 related).

COMPLY YES NO

6.30.09 SIREN

A Whelen 295SLSA1, 200-watt siren shall be installed in the driver’s console (Section 6.09 related). Standard features shall include Radio Rebroadcast, Public Address, Manual, Wail, Yelp, Air horn, and Piercer tones. 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 is on.

COMPLY YES NO

6.30.10 SIREN SPEAKERS

Two Federal Signal DynaMax #ES100C speakers with ESB-ESFMT-EF “Electric F” stainless steel grilles shall be installed in the OEM bumper.

COMPLY YES NO

6.31 INVERTER

A Samlex 1200-watt pure sine wave inverter with a 60-amp battery charger shall be installed with a perforated surround on the floor of Compartment #1. For ventilation, a filtered vent shall be installed on the forward wall, and a soffit vent on the back wall, in line with the inverter. An EVO-RC Plus inverter remote control panel shall be installed on the Action Area wall (#5). The inverter shall be configured to turn on and off with ignition.

COMPLY YES NO

6.32 DRIVING LIGHT

A 30” CSI LED lightbar with bracket shall be installed on the OEM bumper, with a switch labeled “DRIVING LIGHTS” on the driver’s console (Section 6.09 related). Driving lightbar is intended for off-road use only.

COMPLY YES NO

6.40 ELECTRIC DOOR LOCKS

Electric door locks shall be installed on all compartment and module passage doors. Two lock/unlock switches shall be provided in the module: one located on the rear curbside passage door, and one located on the curbside passage door. The door locks for the cab and module shall be interconnected, to allow all doors to be locked/unlocked from either the cab or module.

A hidden unlock switch shall be installed behind the recessed license plate located below the rear doors (Section 4.16 related).

COMPLY YES NO

6.46 AUDIO/VIDEO/RECORDING EQUIPMENT

Item #1

Description: A Zorg back-up camera system shall be installed, including a surface-mounted camera and a rear-view mirror/monitor with a 4.3” screen.

Location: Camera on the rear of the module, centered above the rear passage doors. Rearview mirror/monitor centered on chassis windshield, upper.

Additional Instructions: Camera shall automatically display on monitor when the vehicle is placed in reverse. The programming remote shall be shipped loose (Section 8.01 related).

COMPLY YES NO

Item #2

Description: A Voyager VOS719WPLD1B camera system shall be installed, including one VDMS17B camera and mounting bracket, a VOM719WP 7” monitor, and mount, and cabling.

Locations:

- Camera on the front of the module, centered between the flashers (Section 6.30.01 related).
- Monitor and mount on the Action Area wall (#5).

Additional Instructions: The monitor display shall include on/off power button.

7 SUPPORTING DOCUMENTATION

7.01 OWNERS MANUAL

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

1. Manufacturer Contact Information
2. Table of Contents
3. Manufacturers' Labels
4. Electrical Load Test/Payload/Paint Stickers
5. Manufacturer Warranties
 - Lifetime module warranty
 - Seven-year/75,000-mile limited electrical warranty
 - Two-year/30,000-mile conversion warranty
 - Five-year paint warranty
 - Chemical De-Icer Statement
6. Service and Operations manual
7. Electrical
 - Wire charts and plug pinouts
 - Harness layout
 - Schematics
8. Parts list
9. Paint information
10. Products and Information
11. Second OEM chassis key

8 MISCELLANEOUS EQUIPMENT

8.01 LOOSE EQUIPMENT

The following equipment shall be shipped loose with the vehicle:

1. Touch-up paint, one bottle each:
 - To match Bight White (GLV-11291701)
 - White (G2-33631 Alt 2)
 - Light Gray (GLV-51748)
2. Spare tire & wheel
3. Wheel simulator wrench
4. One 20-amp cord end for shoreline
5. Two antenna coax ends
6. Two compartment keys, J236
7. 12.5ft hose for Beam outlet
8. Rear view mirror/monitor programming remote

6 8.02 CUSTOMER SUPPLIED EQUIPMENT

The customer shall provide the following equipment and have delivered to Manufacturer within 30 days of the preconstruction meeting:

1. Stryker Power-LOAD #6390 cot fastener system

