



EASTSIDE FIRE & RESCUE

**175 NEWPORT WAY NW
ISSAQUAH, WASHINGTON 98027**

BID PACKAGE 18-01

FOR

HAZMAT UNIT SPECIFICATIONS

**CONSISTING OF ADVERTISEMENT FOR BID,
INSTRUCTIONS TO BIDDERS, SPECIFICATIONS,
PURCHASE AND SALES AGREEMENT, AND
FORM OF BID.**

FIRE CHIEF – JEFF CLARK

SHOP SUPERVISOR – JUSTIN KISKE

ADVERTISEMENT FOR BIDS
EASTSIDE FIRE & RESCUE

Sealed bids will be received by the undersigned at the office of EASTSIDE FIRE & RESCUE, 175 Newport Way NW, Issaquah, Washington 98027 up to 1:00 p.m. on February 28, 2018, for one or more, new HAZTAC Unit (s), after which time bids will no longer be accepted.

Sealed bids will be publicly opened and read aloud at the office of Eastside Fire & Rescue at 1:15 p.m. on February 28, 2018.

Bids are to be submitted only on the form provided in the Bid Package. Bid documents can be downloaded from our website at www.eastsidefire-rescue.org. Bid documents can also be obtained at our Headquarters office located at 175 Newport Way NW, Issaquah, Washington.

The purchase and sale shall be accomplished in accordance with this Advertisement for Bids, Instructions to Bidders, Purchase and Sales Agreement and Specifications as contained in the Bid Package 18-01. Bid packages shall be submitted at the office of Eastside Fire & Rescue in a sealed envelope marked: Sealed Bid for Fire Engine, along with the bid date and time of the bid opening. The Bid form shall contain all the information requested, or the bid may be rejected as unresponsive.

All bids shall be accompanied by a cashiers check or bid bond payable to Eastside Fire & Rescue in an amount not less than five percent of the total bid. Bid forms must not be separated from the Bid Package and the bound document must be submitted intact. A performance bond in the full amount of the bid will be required. The Bidder shall guarantee the total bid price forty-five (45) days from the opening of the Bid.

Eastside Fire & Rescue reserves the right to accept or reject any or all bids, to waive minor informalities, and to accept the bid deemed to be in the best interest of Eastside Fire & Rescue and the Citizens residing therein, and it is not bound to accept the lowest bid submitted.

EASTSIDE FIRE & RESCUE

DATED February 6, 2018

By

Justin Kiske

Shop Supervisor

**MANUFACTURER
 DETAILED SPECIFICATIONS
 FOR
 EASTSIDE FIRE AND RESCUE
 HAZARDOUS MATERIALS CONSORTIUM
 ISSAQUAH, WASHINGTON**

0 GENERAL INSTRUCTIONS

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

COMPLY	YES	NO
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0.02 The Apparatus shall be the latest type, carefully designed and constructed with due consideration to the nature and distribution of the load to be sustained. Bidder is required to provide weights of similar vehicles for comparison.

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

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

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

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

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

COMPLY YES NO

0.04 Apparatus 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 Apparatus and the purpose for which it is intended.

COMPLY YES NO

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

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

Name _____

Address _____

Phone _____

COMPLY YES NO

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

COMPLY YES NO

0.07 The vehicle shall be tested and approved prior to delivery, and all records of same shall be submitted at time of delivery. Bidders shall state the amount of mileage the vehicle will have on it at the time of delivery.

Approximate mileage at delivery _____

COMPLY **YES** **NO**

0.08 The manufacturer shall supply one (1) copy of parts, service, and operational manuals at delivery of the proposed Apparatus. Manuals shall include "As Built" body wiring diagrams.

COMPLY **YES** **NO**

0.09 Bidder shall compute pricing less Federal and State taxes. It is understood that any applicable taxes will be added to the proposed prices unless the purchaser furnishes appropriate tax exempt forms. The proposal form contained herein shall be used by all bidders.

COMPLY **YES** **NO**

0.10 Bids shall be addressed and submitted in accordance with the "Call For Bid Cover Letter". Bid envelope must be identified with the words "**HazTac Apparatus Bid**", the opening date, and time on the face of the envelope.

COMPLY **YES** **NO**

0.11 It is the bidders' responsibility to see that their proposals arrive on time. Late proposals, telegrams, fax, e-mail or telephone bids will not be considered.

COMPLY **YES** **NO**

0.12 The bidder shall state the number of calendar days required for delivery of the completed vehicle after receipt of order by the manufacturer.

COMPLY **YES** **NO**

0.13 All bid prices shall be F.O.B. destination on a delivered and accepted basis of the finished vehicle. If a drive out allowance is allowed, it will be shown on the proposal page as a separate deduct amount, complete with details explaining the drive out procedure.

COMPLY **YES** **NO**

0.14 The successful bidder will be responsible for preparing and maintaining a record file of all parts and assemblies used to manufacture the emergency vehicle. These records shall be maintained in the factory of the bidder for the life of the apparatus. File shall contain copies of any and all reported deficiencies, all replacement parts required to maintain the apparatus, and original purchase documents including specifications, contract, invoices, incomplete chassis certificates, quality control reports, and final delivery acceptance documents.

COMPLY **YES** **NO**

0.15 Due to the technical nature of this project, bidders are required to provide detailed drawings and detailed specifications of exactly what they are proposing. Bids not providing these required support documents shall be deemed non-responsive and rejected. Drawings shall include four (4) exterior views showing lights, equipment, stripes, lettering, etc. and four (4) interior drawings showing cabinets, benches, equipment placement, etc. The use of standard drawings and standard specifications or copies of bid drawings does not constitute detailed drawings and detailed specifications and shall not be considered. In order to make evaluations of proposals as quick and concise as possible, manufacturers detailed specifications shall be in the same order as the bid document. Minor details of construction and materials, where not otherwise specified, are left to the discretion of the contractor, who shall be solely responsible for the design and construction of all features.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

COMPLY YES NO

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

COMPLY YES NO

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

COMPLY YES NO

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

COMPLY YES NO

0.26 Bidder shall provide a **pre-build meeting and a final inspection meeting** at the manufacturing facility. If the bidder is not in the full-time employment of the company who will manufacture the vehicle, he is required to attend both of these meetings. Bidder shall be responsible for the following expenses, to include airfare, ground transportation from airport to plant and return, meals and lodging if necessary. **Pre-build meeting shall be for three (3) person from purchaser. Final Inspection meeting shall be for three (3) people from the purchaser.**

COMPLY **YES** **NO**

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

COMPLY **YES** **NO**

0.28 **FORCE MAJEURE**

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

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

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

COMPLY **YES** **NO**

0.29 **INTER-LOCAL AGREEMENT**

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

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

COMPLY **YES** **NO**

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

INVESTMENT:

Year _____ Make _____ Model _____ Price _____
Sales Tax _____
Total _____

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

Drive out allowance included in above price _____

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

100% Performance Bond – ***If required ADD*** _____

The price quoted above shall remain firm until _____

Delivery: Calendar days after receipt of order _____

Bidder _____

Signed _____

Address _____

Phone _____

Motor Vehicle Dealer License: State _____ **#** _____

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

**MANUFACTURER'S
DETAILED SPECIFICATIONS
FOR
EASTSIDE FIRE AND RESCUE
HAZARDOUS MATERIALS CONSORTIUM
ISSAQUAH, WASHINGTON**

1 CHASSIS

1.01 OEM CHASSIS

- 2018 Ford F-450 Crew Cab, 4 x 4 (W4H), meeting all the specifications of Section 1.01.
 - Ambulance Prep. Package
 - EPA Special Emergency Vehicle Emissions
 - 3 year/36,000 mile Bumper-to-Bumper warranty
 - Dual rear wheels
 - Provided by Braun Northwest

1.01.01 SPECIFIC RATINGS

- Drive – 4 x 4
- G.V.W.R. – 16,500 lbs.
- Front Axle – 7,000 lbs.
- Rear Axle – 12,000 lbs.
- Wheelbase – 176"
- Cab to Axle – 60"
- Curb Weight – 11,500 lbs. approximate
- Front Spring Capacity – 7,000 lbs.
- Rear Spring Capacity – 12,000 lbs.
- Rear Differential – 4.10 ratio, limited slip wide track rear axle

1.01.02 POWER TRAIN

- Engine
 - 6.7L 4V Power Stroke V8 turbo diesel B20
 - Diesel Emission Fluid (DEF) system with operator-commanded regeneration
 - 5 year/100,000 mile warranty
 - External oil cooler
 - Factory diesel package
 - 1,000 watt engine heater
 - Heavy duty dry type air cleaner with flow restriction indicator
 - Stationary Elevated Idle Control integrated in engine control module
- Engine Cooling System
 - Heavy duty, closed-air, free-liquid state type
 - Coolant recovery system
 - 50/50 solution Permanent type antifreeze to –40 degrees F
- Transmission
 - TorqShift 6-speed automatic overdrive transmission
 - Tow/Haul Mode with Integrated Exhaust Brake
 - External oil cooler in chassis grille area

- Electronic Shift on the Fly with auto-locking wheel hubs
- Exhaust System
 - System complies with Federal Motor Carrier Safety Regulations, Part 393.83
 - Suspended using three 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.

1.01.03 STEERING

- Power-assisted tilt steering wheel

1.01.04 SHOCK ABSORBERS/STABILIZER BARS

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

1.01.05 BRAKES

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

1.01.06 TIRES AND WHEELS

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

1.01.07 ELECTRICAL

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

1.01.08 INSTRUMENT PANEL AND CONTROLS

- Gauges
 - Tachometer
 - Coolant Temperature
 - Transmission Fluid Temperature
 - Fuel
 - Speedometer
 - Indicator lights
 - Odometer/Trip Odometer
 - Turbocharger Boost
- Controls – Cruise
- Audio – OEM AM/FM/CD
- SYNC 3 Voice-Activated communications and entertainment system with AppLink and instrument panel compass display
- 8" LCD productivity Screen in IP Cluster with Compass Display
- Two USB Ports

1.01.09X

CAB EXTERIOR

- Trim Level – XLT
- Horn – OEM dual electric
- Windows – Tinted safety glass
- Windshield wipers – Two-speed electric, washer and intermittent speed control
- Mirrors
 - Two black, below eye level, manually telescoping trailer tow
 - Power, heated glass, upper portion
 - Turn indicators and clearance lights on outside edge
 - Lower portion convex
- Bumper – Chrome
- Tow hooks – Two front
- Mud flaps – Two front
- Lights
 - Headlamps – Single beam jewel effect
 - Roof clearance light
 - Under hood service light
- Fuel – OEM 40 gallon tank
- **Platform Running Boards (18B)**

1.01.10

CAB INTERIOR

- Trim Level – XLT
- Seats – OEM
 - Cloth 40/20/40
 - Combination lap and shoulder harness
 - Side door armrest
 - 60/40 rear bench w/flip-up seats & fold-down backrests w/under-seat partitioned lockable fold-flat storage, two outboard head restraints and a center head restraint.
- Flooring – Black vinyl
- Climate control – OEM
 - Heavy duty, fresh air, high capacity heater/defroster
 - Dehumidifying air conditioning system
- Airbags
 - Driver and right-front passenger front
 - Front-seat side
 - Safety canopy system with roll-fold side curtain airbags
- Other
 - Padded sun visors, dash, and door panels
 - Molded cloth headliner
 - Reduced sound package
 - Dome light, with dual map lights
 - Auxiliary power point
 - Interior hood release
 - Power door locks & windows, front and rear
 - Front and rear map pockets
 - Four doors
 - Remote keyless entry
 - Adjustable gas and brake pedals

1.01.11

COLORS

- Exterior – Race Red (PQ)
- Interior – Gray

1.02 CHASSIS MODIFICATIONS

The following modifications will be made to the chassis by Braun Northwest.

1.02.08 RECOVERY EYES

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

1.02.09B MUD FLAPS

Mud flaps with the "North Star" logo on them shall be installed behind each rear wheel.

1.02.10 TIRES AND WHEELS

The seven OEM wheels shall be powder-coated to match Ford Race Red (PQ) (SW G4-1484075) (Section 3.04.01X related).

1.02.33X WINCH MOUNTS

Three 2" receivers for a *customer-supplied-and-installed* portable winch shall be installed by BNW, details to be determined at the preconstruction meeting. A winch plug with weatherproof cover shall be installed at each receiver to supply power to the winch.

- One in the front bumper
- One below Compartment #1
- One below Compartment #7

1.02.34 TOW RECEIVER

One 2" tow receiver shall be installed for the purposes of towing and rescue eye use. The Receiver shall include a winch plug as well as a 7-pin/5-pin combination trailer light plug.

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.

1.02.80 EXHAUST SYSTEM

The exhaust pipe shall be modified with the Gibson single exit exhaust tip to accommodate a Nederman exhaust extraction system. The vehicle shall be equipped with a Nederman exhaust system transmitter (P/N 20376724) wired to ignition hot power. The vehicle shall also include an installed a Nederman shutter style anchor plate (P/N 20371853 or P/N 20371868) and it shall be installed directly above the exhaust pipe 24 1/2" center of pipe to center of magnet.

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.

Modules 176"L or longer shall have soft rubber washers added above the forward and rear laterals to accommodate chassis frame torsion.

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 will be allowed. Where compartment and cabinet sizes have been specified, bidder must bid substantially (plus or minus 1") the size specified.

The module shall have a transferable lifetime structural warranty.

2.01

MATERIAL

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

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

2.02

MODULE DIMENSIONS

Overall Vehicle Dimensions (Specifications are listed as minimums.)

Length	23 ' 8.25 "	284.25 "
Width (excluding mirrors)	8 ' 0 "	96.00 "
Height	9 ' 2.63 "	110.63 "

Note: Overall height different than shown in drawings due to crowned roof and and ancho

Exterior Module Dimensions (Specifications are listed as minimums.)

Length	9 ' 8 "	116.00 "
Width	8 ' 0 "	96.00 "
Height	7 ' 4.375 "	88.38 "

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.

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.

2.05 MODULE SEAMS

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

2.06 EXTERIOR SKIN

In addition to welding the exterior skin to structural framing, a Norton NORBOND closed-cell, polyurethane foam tape with high-performance acrylic adhesive shall be utilized full length on all front and rear wall and roof frame members. A polyurethane adhesive sealant shall be applied to the edges of framing members that are bonded with NORBOND tape. An advanced two-part methacrylate structural adhesive shall be used to bond all side wall tubes to the exterior skin and door frames.

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

2.07 MODULE ROOF

In order to improve module strength and minimize exposed seams, the roof shall be seamed transversely, 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.

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 lbs. of equipment.

COMPARTMENT #1

Interior Dimensions – 28.25"W x 70"H x 90.5"D

Doorway Dimensions – 25.25"W x 66.125"H

Location – Streetside, forward

Shelving – Three adjustable shelves

Door(s) – ROM Roll up, Painted Finish, J236 lock

Light(s) – One vertical LED strip light

Additional Instructions – This compartment shall be a transverse storage area connecting to Compartment #7. A side-mount anchor point receiver shall be installed below this compartment (Section 4.12 related).

COMPARTMENT #2

Interior Dimensions – 45.75"W x 50.5"H x 25"D

Doorway Dimensions – 45.75"W x 50.5"H

Location – Streetside, above wheel well

Shelving – One adjustable dual-direction roll out tray

Door(s) – Double

Light(s) – Two vertical LED strip lights

Additional Instructions – This compartment shall provide storage for two *customer-supplied-and-installed* portable shelters which are 39"L x 25"D x 17"H, stowed.

COMPARTMENT #3

Interior Dimensions – 26"W x 75"H x 25"D

Doorway Dimensions – 26"W x 75"H

Location – Streetside, rear

Shelving – Four roll out trays, 21"W

Door(s) – ROM Roll up, Painted Finish, J236 lock Single

Light(s) – One vertical LED strip light, aft

Additional Instructions – None

COMPARTMENT #4

Interior Dimensions – 40.25"W x 60"H x 28.125"D

Doorway Dimensions – 37"W x 54"H

Location – Rear of module

Shelving – Three adjustable full depth shelves

Door(s) – ROM Roll up, Painted Finish, J236 lock

Light(s) – Two vertical LED strip lights, one on each side of the door frame

Additional Instructions – None

COMPARTMENT #5

Interior Dimensions – 24"W x 75"H x 25"D

Doorway Dimensions – 24"W x 75"H

Location – Curbside, rear

Shelving – Four roll out trays, 19"W

Door(s) – ROM Roll up, Painted Finish, J236 lock

Light(s) – One vertical LED strip light, aft

Additional Instructions – None

COMPARTMENT #6

Interior Dimensions – 45.75"W x 50.5"H x 25"D

Doorway Dimensions – 45.75"W x 50.5"H

Location – Curbside, above the wheel well

Shelving – One adjustable dual-direction roll out tray

Door(s) – Double

Light(s) – Two vertical LED strip lights

Additional Instructions – This compartment shall provide storage for two *customer-supplied-and-installed* portable shelters which are 39"L x 25"D x 17"H, stowed.

COMPARTMENT #7

Interior Dimensions – 28.25"W x 70"H x 90.5"D (15.5"D below floor)

Doorway Dimensions – 28"W x 75"H

Location – Curbside, forward

Shelving – Three adjustable shelves

Door(s) – ROM Roll up, Painted Finish, J236 lock

Light(s) – One LED strip light

Additional Instructions – This compartment shall be a transverse storage area connecting to Compartment #1.

2.09

MODULE DOORS

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

The Compartment #1 and 4 doors shall be ROM roll-up doors with a satin finish, keyed for J236. Each door shall have a weather seal to prevent the ingress of water and dirt into the compartment.

2.09.01X

DOOR FRAMES AND SEALS

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.

Compartment #1 and 4 door frames and seals are integrated in ROM roll-up door systems.

2.09.02

DOOR HINGES

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

2.09.03X**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 shall 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.

Each ROM roll-up door shall have an aluminum spring loaded lift bar and a keyed #J236 lock.

UHMW tape shall be installed on handles that could hit opposing doors or latches.

2.09.04X**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. A 1" rubber bumper shall be installed on the module at midpoint of any door with potential to damage another door or the module.

2.09.07X**COMPARTMENT DOORSKINS**

Compartments #2, 3, 5, 6, and 7 doorskin shall be made of 0.080" brushed aluminum, shall be removable, and have a latch service opening with a 2.25" x 4.5" black rubber plug for lubrication and service. Doorskins shall be secured with #8 pan head screws and Sikaflex. Red/white 1.5" conspicuity tape shall be installed on the vertical edge of each door.

2.14**WHEELWELL LINERS**

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

3 COATINGS AND FINISHES

3.01 MODULE FINISH PREPARATION

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

3.02 MODULE PRIMER

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

3.03 PAINT TYPE

Shall be "Sherwin Williams" acrylic urethane.

3.04 COLOR SCHEME

Base color: To match Ford Race Red (PQ) (SW# G4-1484075)

3.04.01X CHASSIS COLOR

Chassis shall be OEM Ford Race Red (PQ) (Section 1.01.11 related).

The seven OEM wheels shall be powder-coated to match Ford Race Red (PQ) (SW G4-1484075).

3.06 COMPARTMENT FINISH

All compartments, shelves, and trays shall be sanded, etched, washed, primed, and coated with textured grey polyurea thermoplastic elastomer finish.

3.10 COMPARTMENT LINING

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

3.12 SURFACES AND FINISHES

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

3.13 AUTOMOTIVE UNDERCOATING SEAL

The chassis and module underbodies (excluding the area above the fuel tank, driveline, and exhaust lines, per manufacturer's specifications) shall be sprayed with undercoating for reduced corrosion and added sound deadening.

3.14 VEHICLE DECAL/LETTERING

The vehicle shall be lettered by the builder, exact design shall be determined at preconstruction.

4 MODULE EXTERIOR

4.01 REAR 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 center section, below the doors, shall have a hex-punched open flow design to prevent accumulation of water and snow and provide a 10" step (different than shown in drawings). 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. Bumper to be designed to accommodate a one-person-style cot.

4.02 RUB RAILS

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

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.

4.04 DRIP RAILS

Extruded, anodized aluminum drip rails shall be installed the full length of the module front, rear, and sides near the roof, 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.

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 meet the cab at the front of the module.

4.06 REAR KICK PANEL

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

4.07 FUEL FILL

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

4.10B**EXTERIOR OXYGEN CYLINDER STORAGE**

Three horizontal SCBA cylinder storage tubes shall be installed, one forward of the streetside wheel well and two on the curbside (one forward and one aft of the curbside wheel well). Storage tubes shall be lined with gray easy sweep mat and shall each have a Cast Products #AD0016 side-hinged door with a 1.75" exterior flange. The doors shall each have a non-locking latch.

4.12**ANCHOR POINTS**

Two under-body side-mount receivers shall be installed underneath Compartment #1 and Compartment #7. A maximum capacity placard shall be located adjacent to the receiver.

4.16**LICENSE PLATE HOLDER**

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

4.21**EXTERIOR GRAB BARS**

Two 24" stainless steel grab bars shall be installed vertically on the rear, one on each side of the roll up door.

5**MODULE INTERIOR**

Module interior finish shall be mill-finished aluminum.

6 **ELECTRICAL**

All added body and chassis electrical equipment shall be served by circuits separate and distinct from the vehicle chassis circuits. All vehicle wiring shall be copper and conform to all SAE J1128 requirements. The wiring shall be colored, numbered, or function coded every 3" for permanent identification and correspond with the vehicle schematics. Solderless, insulated connectors shall be used. Slotted Panduit-style wiring duct shall be used in power component module to ensure air circulation throughout power component wiring. The wiring shall be routed in conduit or looms and wiring shall be secured to the underbody or frame with insulated metal cable straps. All power distribution cabling shall be covered with a protective split loom. Where wiring passes over the exhaust, a heat shield shall be installed. The power component module shall be equipped with positive locking plugs to provide easy disconnect for remount or repair of body. All wiring devices, switches, outlets, etc., except circuit breakers, shall be rated to carry 125% of the maximum ampere load for which the circuit is protected.

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

6.01 **ELECTRICAL LOAD DEVICES**

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

6.07 **BACK-UP ALARM**

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

6.08 **SERVICE LOOP**

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

6.09

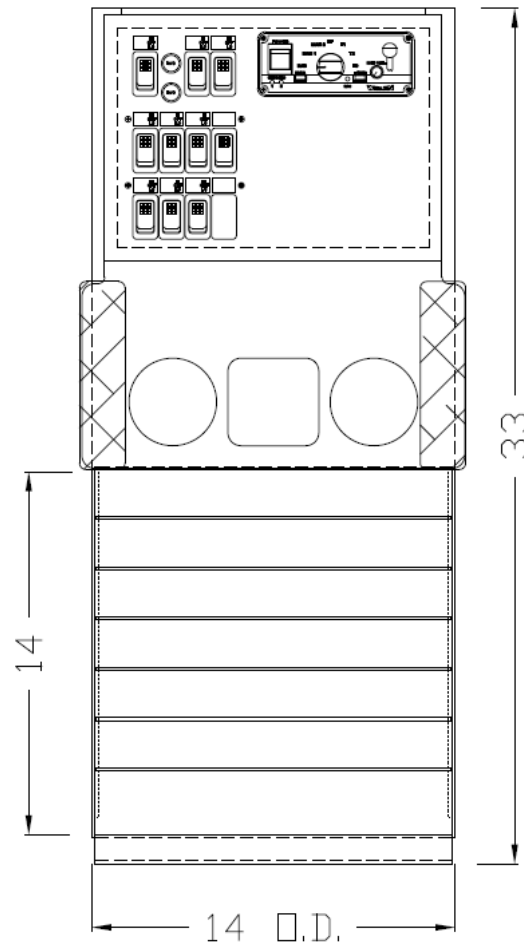
DRIVER'S CONSOLE/MAP BOX

A driver's console made of black-powder-coated formed aluminum shall be installed between the seats. It shall have a switch panel with the following layout, two cup holders, and a map holder with six mill-finished aluminum dividers. A map light shall be installed in the upper right corner (Section 6.11 related).

1.	Passage D/O Compt D/O	2.	3.	Siren
Module Disc.		Emerg. Master	Back-up Disable	

4.	5.	6.	7.	<i>Customer-supplied</i> Radio (Section 8.02 related)
Flashers	Ground Lights	Opticom	Spare	

8.	9.	10.	11.	<i>Customer-supplied</i> Radio (Section 8.02 related)
Left Scene	Right Scene	Rear Scene	Blank	



**CONSOLE
PROPOSAL
DRAWING**

- 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.
- 6.12 DOOR AJAR WARNING LIGHT**
A flashing LED light with a red lens shall be provided on the driver's console to warn the driver of an open module passage or compartment door. The light shall flash only if the ignition is on. The light shall be installed on the driver's console.
- 6.13 SPOT LIGHT**
One roof mounted GoLight Stryker LED spotlight (model #20214) with hard wired controller, black in color, shall be mounted to the roof of the chassis cab between the drivers and officers seats. The controller shall be installed on the lower right portion of the console below the radios.
- 6.14 ACCESSORY POWER**
There shall be one accessory power wire that is ignition controller with an 80amp capability run to a Blue Sea Systems fuse block (P/N 5025). There shall be one accessory power wire that is battery hot with an 80amp capability run to a Blue Sea Systems fuse block (P/N 5025).
- 6.16 MDC DOCK**
A Havis MDC dock (P/N DS-PAN-112-2) shall be installed off of the right side front of the center console using Havis components (P/N's C-HDM-204, C-MD-119).
- 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.
- 6.18B COMMUNICATIONS EQUIPMENT**
The customer shall be responsible for powering up and tuning of any radio equipment.

Item #1

Description: One *customer-supplied* all-in-one radio transceiver (P/N APX6500 Motorola with an 05 control head). (Section 8.02 related.)

Location: Driver's console

Additional Instructions: All connections shall be made, including antenna, antenna cable(s), battery power, ignition power, and grounds. Prior to powering up of the module, all in-line fuses of radio equipment shall be removed and secured to their fuse holders. A magnetic mic clip (P/N MMSU1) shall be

installed with the mic for this radio. Radio speaker location to be determined at preconstruction.

Item #2

Description: One *customer-supplied* all-in-one radio transceiver P/N IC-F5060 (Section 8.02 related).

Location: Driver's console

Additional Instructions: All connections shall be made, including antenna, antenna cable(s), battery power, ignition power, and grounds. Prior to powering up of the module, all in-line fuses of radio equipment shall be removed and secured to their fuse holders.

6.19X ANTENNA MOUNTS AND CABLES

Three NMO universal antenna mounts with KHFUD cables and Larsen HyPer master universal connectors and mini-UHF adapters shall be installed on the cab roof. Cables shall terminate at two *customer-supplied* radio transceivers in the driver's console (Section 6.18B related). Cables shall have UHF P11259 male cable ends.

6.19.1 MODEM AND GPS ANTENNA

A Sierra Wireless airlink GX450 modem (P/N 1102360-639) and GPS antenna (P/N APCCWG-X-2222-RP3-BL) shall be installed. Final placement shall be done decided at preconstruction meeting.

6.21X 120VAC/SHORELINE

Utility power shall be furnished with 120VAC shorepower via Kussmaul 20-amp Super Auto-Eject amp plug with a red cover on a stainless-steel plate with a green indicator light located on rear of vehicle, streetside lower, and distributed to the battery charger (6.23X related).

6.22 BATTERY GROUNDS

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

6.23X BATTERY CHARGER

One 30-amp minimum battery charger/conditioner shall be provided and wired to shoreline and to the generator. The charger shall be wired through a 120VAC transfer switch. The charger shall have totally filtered output voltage, locked at a maximum 14 volts. The charger shall be designed for long term charger and converter operation without damage to batteries.

6.26X COMPARTMENT LIGHTING

A vertical LED strip light shall be installed in each outside compartment, and shall be activated by the respective compartment door switch. Compartments #2, 4, and 6 shall have two vertical LED strip lights.

6.27X EXTERIOR DOOR SWITCHES

Shall be proximity switches and resistant to weather and corrosion.

The ROM doors on Compartments #2 and #4 shall each have two magnetic switches.

6.28 FLASHLIGHTS AND RADIO SPARE BATTERY CHARGERS

There shall be two Streamlight survivor flashlights installed in the box of the apparatus, placement to be determined at preconstruction. Two spare radio battery chargers shall also be installed, placement to be determined at preconstruction.

6.30 EMERGENCY WARNING SYSTEMS

6.30.01X FRONT FLASHERS

Four Whelen M9 Series flashers with chrome housings shall be installed on the upper front of the module, pattern from curbside to streetside:

Curbside: #M9R Red Lens Red LED flasher
#M9R Red Lens Red LED flasher
Center #795 Opticom, with #798 bezel
M9R Red Lens Red LED flasher
Streetside: #M9R Red Lens Red LED flasher

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

6.30.02X REAR FLASHERS

Two Whelen #M7R Red Lens Red LED flashers shall be installed on the upper rear of the module, outboard. Lights shall be controlled by the "FLASHER" switch on the driver's console (Section 6.09 related).

6.30.03X FLASHERS

Four Whelen #M7R Red Lens Red LED flashers shall be installed two each on the curbside and streetside of the module in upper corners. Lights shall be controlled by the "FLASHER" switch on the driver's console (Section 6.09 related).

6.30.04 SCENELIGHTS

Six Whelen #M7ZC LED scenelights shall be installed - two each on the curbside and streetside of the module in the upper corners, inboard of the flashers, and two above Compartment #4. The scenelights shall be activated when the vehicle is placed in reverse. The scenelights shall also be controlled by the respective switches on the driver's console (Section 6.09 related).

6.30.08 GRILLE LIGHTS

Two Whelen #Wion surface mount red with chrome bezel shall be installed on the grille.

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.

6.30.10 SIREN SPEAKERS

A Cast Products Thru-the-Bumper mount system with two 100-watt cast aluminum speakers shall be installed in the OEM chassis bumper.

6.39 TELESCOPIC POLE LIGHTS

One Whelen #PCH1P1 Pioneer Plus 75-watt 12VDC LED flood light with white housing shall be installed on a 57" side-mounted telescopic pole with pole mount adapter and handle, mounted on the rear of the module. Light shall have a switch on the light head and a stainless-steel plate mounted on the module behind the light head (not shown in drawings).

6.43X GROUND LIGHTS

Six Trucklite clear LED Model 6060C lights shall be installed: one each side of the cab, two at the module rear and one each side of the module, controlled to illuminate when ignition is on and transmission is in park. A switch shall be provided in the driver's console to enable operation of the ground lights.

6.46 BACK-UP CAMERA

A Rostra #250-8309-W back-up camera system shall be installed, including a surface-mounted camera and a rear view mirror/monitor with a 4.3" screen. Camera shall automatically display on monitor when the vehicle is placed in reverse. Location of camera to be determined at the preconstruction meeting.

6.50 110 VOLT SHORE POWER

6.50.01 SHORE POWER COMPARTMENT OUTLETS

There shall be 110 volt 15amp outlets, power only when the apparatus is plugged into shore power, installed in the box. Final placement and number of outlets shall be determined at the preconstruction meeting.

7 SUPPORTING DOCUMENTATION

7.01

OWNERS MANUAL

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

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

8 MISCELLANEOUS EQUIPMENT

8.01

LOOSE EQUIPMENT

The following equipment shall be shipped loose with the vehicle:

1. Touch up paint
 - a. Race Red (SW# G4-1484075)
2. One 20-amp Shoreline plug
3. Spare tire and wheel

8.02

CUSTOMER SUPPLIED EQUIPMENT

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

1. Two radio transceivers with remote head (make/model to be determined at pre-construction meeting)

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