



AGENDA REPORT

Meeting Date: April 5, 2011
Item Number: F-14
To: Honorable Mayor & City Council
From: David L. Snowden, Chief of Police
Subject: **APPROVAL OF A PURCHASE ORDER WITH BRAUN NORTHWEST, INC. FOR THE PURCHASE OF A POLICE EQUIPMENT VEHICLE IN AN AMOUNT NOT TO EXCEED \$254,711.09**

Attachments:

1. Bid No. 11-28
2. Bid Winning Proposal

RECOMMENDATION

Staff recommends that the City Council move to issue a purchase order in the amount of \$254,711.09 to Braun Northwest, Inc. for the purchase of an equipment vehicle for the Police Department.

INTRODUCTION

On December 21, 2010, the City Council appropriated \$275,000 in federal seized and forfeited property funds for the purchase of an equipment vehicle for the Police Department's Emergency Services Bureau (ESB). These restricted funds were received as a result of federal asset seizures and may only be used to enhance the operations of the Police Department.

This new equipment vehicle will replace ESB's current utility truck which is both undersized and outdated. As a one-time purchase, this new vehicle does not require Internal Service Charges to fund its eventual replacement. Additionally, since the vehicle will be primarily used to transport equipment, its technology components are minimal and will not require replacement during the vehicle's lifecycle. Staff estimates the vehicle's service life to be approximately 20 years. During the vehicle's service life, maintenance will be funded by the budget used to support the current vehicle, which will be taken out of service. The Vehicle Shop was consulted regarding the purchase of this new vehicle and recommended purchasing a vehicle with a Freightliner chassis, which

their staff is familiar with, to ensure that the ongoing maintenance of the vehicle does not add an extra layer of complexity to the servicing of City vehicles.

DISCUSSION

On February 10, 2011, the City released Bid #11-28 requesting sealed bid proposals (RFP) to supply the equipment vehicle. The bid closed on March 10, 2011. The City received bids from four vendors.

| VENDOR | BID | TAX | TOTAL |
|----------------------------|------------|------------|--------------|
| GERLING AND ASSOCIATES | 169,990.00 | 16,574.02 | 186,564.02 |
| BRAUN NORTHWEST, INC. | 232,083.00 | 22,628.09 | 254,711.09 |
| LYNCH DIVERSIFIED VEHICLES | 261,435.00 | 25,489.91 | 286,924.91 |
| FARBER SPECIALTY VEHICLES | 289,980.00 | 28,273.05 | 318,253.05 |

A thorough review of all four vendor bids shows several deficiencies with the proposal submitted by Gerling and Associates, which submitted the lowest bid. Some of the areas where Gerling and Associates failed to meet the City's requirements for this vehicle include:

- Failure to use requested materials in the construction for the flooring of the vehicle, which are required due to the heavy demands that will be placed on it. Gerling and Associates proposed to incorporate 0.5" marine or exterior grade plywood sub-floor over the aluminum floor versus the requested .125" aluminum sheet subfloor with foundation members securely welded under the subfloor.
- Failure to provide a detailed diagram of the interior and exterior of the proposed vehicle. Specifically, the proposal did not specify the locations of the placement and fasteners for weapons systems.
- Failure to bid on the specific layout/design requested. Gerling and Associates' proposal included a "Cab bulkhead" with a walk-through into the body head, which was not requested and eliminates the storage of the proposed easel boards.
- Failure to provide three exterior easel boards for three separate mission-specific work areas; Gerling and Associates proposed only two and did not indicate their locations.
- Gerling and Associates included an interior work station and supporting electrical infrastructure in its proposal. The City's RFP did not request a work station because all of the areas were clearly identified and accounted for. Gerling and Associates' proposal lists this work station; however, it was not indicated on its supplied diagram.
- The City's RFP requested that the module have ten mounts. Gerling and Associates' proposal reduced the number of mounts to five.

- No provisions on the proposal for the requested roof ladder mounts or the two rear telescopic lights. The City's RFP requested that the vehicle include these mounts and lights.

Based on the deficiencies identified with the Gerling and Associates bid, staff recommends that this purchase be awarded to the next highest bidder, Braun Northwest, Inc. While the Braun Northwest, Inc. bid was approximately \$68,000 more, the vehicle proposed by this vendor complies with the City's requirements and can be purchased within the established budget.

FISCAL IMPACT

Funding for this purchase is budgeted in the Police Department's Federal (Justice) Seized and Forfeited Property (3202105E126). The total cost of the vehicle purchase is \$254,711.09. The General Fund will not be impacted by this purchase.



Scott G. Miller, Director
Finance Approval



David L. Snowden, Chief of Police
Police Approval

Attachment 1



BID PACKAGE

CITY OF BEVERLY HILLS
OFFICE OF THE CITY CLERK
455 NORTH REXFORD DRIVE
BEVERLY HILLS, CALIFORNIA
90210 (310) 285-2440

LEGAL NOTICE - BIDS WANTED

Sealed proposals are requested on the list of materials, supplies, equipment or services set forth herein, subject to all conditions outlined in the Proposal Document, including:

- SECTION I:** REQUEST FOR BIDS
- SECTION II:** GENERAL INFORMATION AND INSTRUCTION
- SECTION III:** DETAIL SPECIFICATIONS
- SECTION IV:** BID FORM

(IF YOU CHOOSE NOT TO SUBMIT A BID, PLEASE COMPLETE PAGE 43)

Sealed proposals will be received only at the **Office of the City Clerk**, 455 North Rexford Drive, Beverly Hills, until 2:00 p.m. local time, on the dates hereinafter stated at which time they will be opened and publicly read for furnishing the materials, supplies, equipment or services or for supplying the materials, and/or providing labor for the repair, construction or improvement as the case may be, as indicated by the items hereunder listed and in accordance with the applicable specifications.

SECTION I – REQUEST FOR BIDS

Date of Request: **February 10, 2011**

Bid Number: **11 - 28**

Item Description: **TRUCK, TACTICAL, POLICE SWAT**

Bid Opening: **March 10 @ 2:00 PM**

All bids must be delivered by the specified opening time of the bid. Bids arriving after the specified hour will not be accepted. Mailed bids, which are delivered after the specified hour will not be considered regardless of postmarked time on the envelope. All bids must be in writing and must contain an original signature by an authorized officer of the firm - Electronic bids (telephone, FAX, etc.) are **NOT** acceptable.

BID DEPOSIT - NONE REQUIRED WITH THIS BID
PERFORMANCE BOND AND PAYMENT BOND - NONE REQUIRED WITH THIS BID.
THE CITY RETAINS THE RIGHT TO REJECT ANY AND ALL BIDS WITHOUT CAUSE
AND/OR ELECT NOT TO AWARD A BID.

CITY OF BEVERLY HILLS
SECTION II - GENERAL INFORMATION AND INSTRUCTION

1. Bid deposits of unsuccessful bidders will be returned after the bid has been awarded. A successful bidder's bid deposit will be returned after he has entered into a written contract, or after a performance bond, if required, has been executed and accepted by the City.
2. The vendor's proposal may be withdrawn at any time prior to the bid opening. No proposal may be withdrawn after the bid opening. Violation of this policy may cause forfeiture of the bid deposit and removal from qualified Bidder's List.
3. Bidders are advised to become familiar with all conditions, instructions and specifications governing this bid. Once the award has been made, a failure to have read all the conditions, instructions and specifications of this contract shall not be cause to alter the original contract or for vendor to request additional compensation.
4. Bidders agree to defend and save the City from and against all demands, claims, suits, costs, expenses, damages and adjustments based on any infringement of any patent relating to goods specified in this contract.
5. Successful bidder shall not assign the contract, or subcontract the whole or any part of the contract without written consent of the City. Such consent shall neither relieve the bidder from his obligation nor change the terms of the contract.
6. The City shall have the right to inspect any material specified herein. Equipment, supplies or services that fail to comply with the specifications herein regarding design, material or workmanship are subject to rejection at the option of the City. Any materials rejected shall be removed from the premises of the City at the expense of the vendor.
7. Bidder shall state the nature and period of any warranty or guarantee. Manufacturer's specifications shall be submitted with the bid and shall be considered a part of this contract where such specifications meet the minimum of the City specifications.
8. Each bidder shall submit in full this completed original BID DOCUMENT and all necessary catalogues, descriptive literature, etc., needed to fully describe the materials or work he proposes to furnish.
9. Bidders shall state the delivery date for commodities in terms of calendar days after notification of award. Where the contract calls for performance of labor, the bidder shall also state the number of calendar days required for completion after notification of award.
10. Cash discounts shall be considered in the evaluation of the bids, except that payment periods of less than thirty (30) days will not be considered in award of this bid. Where cash discounts are offered, the discount date shall begin with the invoice date or delivery date to the City, whichever is later.

11. Upon the award of the bid to the successful bidder, if insurance is required by the terms of this bid, the City will require evidence of such coverage be furnished within fourteen (14) days of notification of bid award. The amounts and types of coverage will be specified in Section IV of this bid. **All insurance forms must be in a format acceptable to the City.**
12. The Contractor agrees to indemnify, defend and hold harmless the City, City Council and each member thereof, and every officer, and employee of the City, from any liability or financial loss including, without limitation, attorneys fees and costs, arising in any manner whatsoever from any intentional, reckless, negligent, or otherwise wrongful acts, errors or omissions of Contractor, or any person employed by Contractor, including agents and independent contractors, in the performance of this agreement.
13. Every supplier of materials and services and all contractors doing business with the City shall be an "Equal Opportunity Employer" as defined by Section 2000 (E) of Chapter 21, Title 42 of the United States Code Annotated and Federal Executive Orders #11375, and as such shall not discriminate against any other person by reason of race, creed, color, religion, age, sex or physical or mental handicaps with respect to the hiring, application for employment, tenure, terms or conditions or employment of any person.
14. Prices quoted herein must be firm for a period of not less than ninety (90) days after date of bid opening.
15. Bids calling for other than a "lump sum" total bid may be awarded by single item, by groups of items, or as a whole, as the City deems to be in the best interest of the City.
16. The City will be the sole and exclusive judge of quality, compliance with bid specifications or any other matter pertaining to this bid. The City reserves the exclusive right to award this bid in any manner it deems to be in the best interest of the City.
17. Quantities specified in Section III are approximate only, the City reserves the right, within the period for delivery to increase or decrease the quantity ordered and upon mutual agreement after the period specified for delivery, order additional quantities of items bid.
18. "Contractor shall cooperate with the City in all matters relating to taxation and the collection of taxes. It is the policy of the City to self-accrue use tax associated with its own purchases. The City requests that its contractors self-accrue their use tax, **when applicable**, and report the use tax to the State Board of Equalization with a City-assigned permit number. The City's own use tax which is self-accrued by the City will be remitted to the State of California pursuant to the City's permit with the State Board of Equalization."
19. For any questions regarding this bid, please contact Sergeant David Perez (310) 285-2197

SECTION III – DETAILED SPECIFICATIONS

SUBSECTION A - TECHNICAL NOTES

IN EVENT OF CONFLICT, THE FOLLOWING SPECIFICATIONS SHALL PREVAIL OVER GENERAL INSTRUCTIONS CONTAINED ELSEWHERE IN THIS BID.

IMPORTANT NOTICE - THIS SECTION III, SUBSECTION A, COMPLETED WITH REQUIRED INFORMATION AND/OR BIDDER'S EXCEPTIONS MUST BE ATTACHED TO AND RETURNED WITH SECTION IV - BID FORM.

BIDDER MUST EXPLAIN IN DETAIL ALL ITEMS OFFERED WHICH DO NOT CONFORM TO SPECIFICATIONS CONTAINED HEREIN. IF NO EXCEPTIONS ARE LISTED, IT WILL BE ASSUMED BIDDER IS BIDDING "AS SPECIFIED."

Specifications for a new Police SWAT Tactical Vehicle

BIDDERS EXCEPTIONS

DETAILED SPECIFICATIONS

1 CHASSIS

1.01 OEM CHASSIS

- 2012 Freightliner M2-106 Conventional, meeting specifications of Section 1.01.
 - Rescue & Emergency Service
 - Provided by Manufacturer

1.01.01 SPECIFIC RATINGS

- Drive – 4 x 2
- G.V.W.R Capacity – 26,000 lbs
- Front GAWR – 10,000 lbs
- Rear GAWR – 17,500 lbs
- Wheelbase – 222"
- Cab to Axle – 156"

1.01.02 POWER TRAIN

- Engine
 - Cummins ISB 6.7-325, 325 HP @ 2300 RPM, 2600 Gov. 750 LB/FT @ 1800 RPM
 - Engine shall comply with current EPA, California ARB, and South Coast AQMD exhaust emissions applicable to the vehicle specified and its application.

- Engine after-treatment device, Automatic over the road regeneration and dash mounted regeneration request switch
- Horton HT650 frontal air on/off engine fan clutch
- Six (6) gallon Diesel Exhaust Fluid Tank
- Transmission
 - Allison 3000 EVS automatic, 5-speed,
 - Electronic shift control, Dash mounted push button
 - Water to Oil Transmission Cooler
- Engine Cooling System
 - 950 Sq. In. Radiator
 - Ethylene Glycol Pre-charged SCA heavy duty coolant
- Exhaust
 - Horizontal tailpipe, exit forward of rear tires, LH
 - Single horizontal muffler

1.01.03 STEERING

- Power – TRW THP-60
- Steering Wheel – 18"
- Steering Column – Adjustable Tilt and Telescoping

1.01.04 AXLES AND SUSPENSION

- Front Axle – 10,000 lbs Capacity
- Front Suspension – Taperleaf 10,000 lbs
- Rear Axle – 17,500 Capacity
- Rear Suspension – 18,000 lb, 52 inch variable rate multi-leaf
- Rear Axle Ratio – 4.88
- Front and Rear Shock Absorbers

1.01.05 BRAKING SYSTEM

- Air Brake Package with BW AD-IS brake line Air Dryer with Heater
- Anti Lock – Wabco 4S/4M without traction control

- Air compressor – 18.7 CFM
- Parking Brake System with Dash-mounted control

1.01.06 TIRES AND WHEELS

- Front Tire – Two (2) 255/70R22.5, 16 Ply Radial
- Rear Tire – Four (4) 255/70R22.5, 16 ply Radial
- Front Wheels – 22.5" Accuride Polished Aluminum Outside Only, 10 stud
- Rear Wheels – 22.5" Outer Rims, Accuride polished aluminum Outside Only; 22.5" Inner Rims, painted steel, 10 stud

1.01.07 ELECTRICAL

- Alternator – 275 amp 40-SI Quadramount pad with remote battery voltage sense
- Batteries – Two(2) Alliance 1131 Group 31 MF 1850 CCA
- Delco 12V 29MT starter

1.01.08 INSTRUMENT PANEL AND CONTROLS

- Gauges
 - Fuel Level
 - Oil Pressure
 - Transmission Oil Temperature
 - Engine Coolant Temperature
 - Hour Meter and Trip Meter
 - Speedometer – Electronic w/ mph, kph scale
 - Tachometer – 3000 RPM
 - Digital Voltage
 - Air Restriction – Indicator with warning light
 - Inside/Outside Digital Temperature Gauge
- Warning system – Lights and Buzzer
 - Low Fuel
 - Low air pressure
 - Park Brake

- Low Oil pressure
- High Engine Coolant Temperature
- Control – Cruise, switches in LH switch panel
- Audio – AM/FM/CD, Two (2) speakers
- Programmable RPM control (to sense low voltage states >14.2 amps and to increase engine idle) – Electronic engine

1.01.09 CAB EXTERIOR

- Hood – Fiberglass
- Grille – Chromed Plastic
- Cab – 106" BBC Flat Roof aluminum conventional
- Bumper – Three-Piece 14" Chromed with collapsible ends
- Frame – Steel, 9/32" x 3-7/16" x 10-1/16"
- Tow Hooks – Front
- Mirrors – Door Mounted Dual Bright West Coast, 102" equipment width
 - 8" convex , bright finish, mounted under primary mirrors
 - Passenger side convex mounted above window
 - Remote/Heated
- Windshield wipers – two-speed, with intermittent
- Windows – Tinted safety glass
- Lighting
 - Headlights
 - Clearance/Marker Lights – Five (5) Amber LED
 - Daytime running lights
- Horns – Dual electric
- Fuel Tank – 50 Gallon, LH, Alliance Fuel Filter/Water Separator with Primer Pump
- Keys – All keyed alike
- Grab Handles – right and left sides
- Rubber Cab Mounts

- Composite Exterior Sun Visor
- 1.01.10 CAB INTERIOR**
- Interior – Opal Gray
 - Silencer Package for Cab
 - Sun visors – Driver and Passenger
 - Flooring – Black Vinyl with insulation
 - Seats
 - Bostrom Talladega 910 High-back Air Suspension Driver’s and Passenger’s Seat
 - Black Cordura Plus Cloth Seat Covers
 - Dual Seat Armrests
 - Three-point fixed D-ring retractor seatbelts
 - Climate Control
 - Heater/ Defroster/AC with a fresh air filter
 - Main HVAC controls with recirculation switch
 - One (1) Denso heavy duty and one (1) Sanden compact refrigerant compressors
 - Dome light – activated by RH/LH doors, map lights, reading lights, forward mounted
 - Electric Door Locks and Windows
 - Electrical – Solid state circuit protections and fuses
 - Roof mounted console with upper storage compartments
 - Cup holders in dash
 - 12V Power Supply
- 1.01.11 COATINGS/PAINT**
- Exterior – Freightliner Black
 - Interior – Gray / Black
- 1.02 CHASSIS MODIFICATIONS**
- The following modifications will be made to the chassis by manufacturer.
- 1.02.01 ALUMINUM WHEEL DRESS UP KITS**
- Install stainless steel hub and lug nut covers on all four (4) outside aluminum wheels.

- Engraved label above all four (4) wheel wells "Max. Tire Pressure 95 PSI".

1.02.02 RUNNING BOARDS

- Repaint the OEM steps, install diamond plate trim, and paint the OEM fuel tank straps black. Polish the aluminum fuel tank.

1.02.03 RUBBER MUD FLAPS

- Mud flaps shall be installed behind the rear wheels. When module is in the "low" position, flap should just barely make contact with ground.

1.02.04 MAP BOX AND MAP BOOK HOLDER

- A "custom designed", black powder coated, two (2) piece map box/map book holder shall be provided.
- One (1) portion installed in the cab between the seats the other portion vertically on the cab wall behind the map box.

1.02.05 TRAILER HITCH/PLUG

- A Class IV trailer hitch shall be mounted below the rear bumper, with a 10,000 lbs. total rating and 1,000 lbs. tongue weight capacity, receiver opening to be 2" square.
- A seven-pin "female" trailer connection shall be provided.

1.03 MODULE-TO-CHASSIS MOUNTING SYSTEM

- The module shall be bolted to the chassis frame in ten (10) locations. Each mounting location shall include a hard rubber isolation pad between the Chassis frame and the module lateral frame.
- A ¾" Grade 5 bolt shall extend through the module lateral frame member and bolt to the web of the chassis frame with a 5/8" Grade 5 bolt. All bolts shall be secured with locking nuts.

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**

- EXTRUSIONS SIZE ALLOY
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
- FORMED SHEETING SIZE ALLOY
Skin/Roof/Compartments/Subfloors/Doors
0.125" 5052-H32
Interior Cabinets 0.090" 5052-H32
DiamondPlate 0.125"/0.08" 3003-H32
StainlessSteel 16 ga., 20 ga. 304 # 4B

2.02**MODULE DIMENSIONS**

- Specifications are listed as minimums.
- Overall Vehicle Dimensions:

| | | | |
|------------|-----|--------|-----------|
| Drop Skirt | 4" | | |
| Length: | 29' | 9" | (357") |
| Width: | 8' | 4" | (100") |
| Height: | 9' | 10.25" | (118.25") |

- Exterior Module Dimensions:
 - Length: 19' 6" (234")
 - Width: 8' 4" (100")
 - Height: 8' 2.375" (98.375")
- Interior Dimensions:
 - Length: Forward Wall to Rear Doors-226"
 - Width: Left Wall to Right Wall- 96"
 - Floor Width: Left Cabinets to Right Cabinets 40.5"
 - Height: Floor to Ceiling 78"

2.03**STRUCTURAL FRAMING**

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

2.04**FOUNDATION SYSTEM**

- Shall consist of a 0.125" aluminum sheet subfloor with foundation members securely welded under the subfloor.
- Members shall consist of six (6) 3" x 3" x 0.375" structural angles and one (1) 1.5" x 3" x 0.250" channel (above fuel tank) running full width side to side with two (2) 0.250" x 1.5" aluminum members running lengthwise between the structural angles.

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 very high bond system shall be utilized full length on all wall and roof frame members.
- A polyurethane adhesive sealant shall be applied to the edges of structural tubing at the exterior wall surfaces.

2.07 MODULE ROOF

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

2.08 MODULE EXTERIOR COMPARTMENTS

- All compartments are constructed from formed 0.125" aluminum and are securely welded to the subfloor and structural framing.

- A baffled drain hole shall be provided in all exterior compartment bottoms that extend below the floor line.
- All exterior adjustable shelves shall be mounted on heavy duty aluminum unistrut track which is securely welded to compartment interiors. Each shelf shall support at least 300 lbs. of equipment.
- **COMPARTMENT #1**
 - Interior Dimensions** – 40"W x 34.625"H x 25"D
 - Doorway Dimensions** – 40"W x 34.625"H
 - Location** – Street side, forward
 - Shelving** – Two (2) roll out trays; one (1) adjustable, one (1) fixed
 - Door(s)** – Double
 - Light(s)** – One (1) LED strip light
 - Additional Instructions** – Trays shall operate on 24" locking slides and have a 300 lb. capacity.
- **COMPARTMENT #2**
 - Interior Dimensions** – 102"W x 13.625"H x 25"D
 - Doorway Dimensions** – 102"W x 13.625"H
 - Location** – Street side, forward of wheel well
 - Shelving** – Two (2) fixed roll out trays
 - Door(s)** – Single, hinged down
 - Light(s)** – One (1) LED strip light
 - Additional Instructions** – The roll out tray shall operate on 24" locking slides and have a 300 lb. capacity. Two (2) 120VAC outlets; one (1) forward rear wall and one (1) aft rear wall shall be installed. A female air chuck tapped into chassis air systems shall be located in this area.
- **COMPARTMENT #3**
 - Interior Dimensions** – 40"W x 50"H x 25"D
 - Doorway Dimensions** – 40"W x 50"H
 - Location** – Street side, rear
 - Shelving** – Two (2), adjustable.

Door(s) – Double

Light(s) – One (1) LED strip light

Additional Instructions – An Onan 6kW diesel generator shall be installed in this compartment, plumbed to take fuel directly from the vehicle tank but not draw the fuel tank below 1/4 full. Generator assembly shall be mounted on a slide-out tray for easy maintenance and repair. Generator muffler shall extend to street side rear corner. Louvers shall be stamped into the door for ventilation.

- **COMPARTMENT #4 – Drawer**

Interior Dimensions – 49.875"W x 13.625"H x 25"D

Location – Curbside, rear

Light(s) – One (1) LED strip light

Additional Instructions – This compartment shall be a roll out drawer capable of holding tear gas canisters. The drawer shall have 300 lb. capacity slides, and a stainless steel paddle latch with rotary catch.

- **COMPARTMENT #5**

Interior Dimensions – 54.5"W x 52.5"H x 25"D
(lower) 8.25"D (upper)

Doorway Dimensions – 54.5"W x 52.5"H

Location – Curbside, forward

Shelving – One (1) fixed roll out tray

Door(s) – Double

Light(s) – One (1) LED strip light

Additional Instructions – The roll out tray shall operate on 24" locking slides, have a 300 lb. capacity. A 42"W x 27"H plasma TV, printer, and laptop docking station shall be installed in this compartment. Two (2) 120VAC outlets shall be installed in the side walls, one (1) on each side. The door skins shall be painted white steel to allow use as magnetic dry marker surfaces.

One (1) **Customer Supplied** radio shall be installed in this compartment on the side walls.

Two (2) Radio speakers installed flush mounted in ceiling of "Media Center", wired to allow

broadcast from Radio or Laptop TV Connection thru speaker.

Doors shall be held in the open position by Cast Products "grabber" type hold-open devices.

- **COMPARTMENT #6**

Interior Dimensions – 75"W x 13.625"H x 25"D

Doorway Dimensions – 75"W x 13.625"H

Location – Curbside, lower forward

Shelving – One (1) fixed roll out tray

Door(s) – Single, hinged down

Light(s) – One (1) LED strip light

Additional Instructions – The roll out tray shall operate on 24" locking slides, have a 300 lb. capacity.

Two (2) 120VAC outlets; one (1) forward rear wall and one (1) aft rear wall shall be installed.

2.09 MODULE DOORS

- The doors shall be pan formed and bonded to extruded aluminum frames.

2.09.01 DOOR SEAL

- Each doorframe shall have an air cell hollow core, 360-degree compression door seal located outboard of the door switches and latch hardware. This seal creates watertight, dust-free compartment integrity and protects latches and switches from exposure to dirt, moisture, and road salts.

2.09.02 DOOR HINGES

- Shall be full length, piano type, stainless steel hinges, 1.75" wide with a 0.25" pin.
- The hinges shall be attached with 12 x 3/4 stainless steel truss head screws spread 4" apart.
- All curbside and street side doors shall be hinged on the forward sides. All rear doors shall be hinged on the outboard sides.

2.09.03 DOOR LATCHES

- Shall be flush mounted, stainless steel, Versch paddle type slam latches with rotary latch

striker posts, which meet FMVSS 206 requirements.

- Striker shall be adjustable and shall be secured with a nut from behind door frame. The striker washer will not be removed. Cold rolled, threaded 0.162" steel rods shall be used to activate dual rotary latches. Once final adjustments to latches are made, threads are to have Loctite or equivalent applied.
- All double door compartments shall have an exterior stainless steel paddle handle and rotary latches on each door. Doors will latch to door frame mounted striker posts only and not to one another.
- All entrance doors shall have interior handles with dual point, rod actuated, rotary latch systems which are lockable inside and out.
- All latches will have a non-slip surface on the underside of the latch. All compartment and module access doors shall be keyed for #J236 keys.
- Deadbolts shall be provided for all passage doors and Compartments #4 and #5.

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.
- Compartment #5 shall have Cast Products "grabber" type hold-open devices with replaceable rubber catches.
- Compartments #2, #3, and #6 shall have rubber bumpers installed.

2.09.05 CURBSIDE DOOR CONTROL

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

2.09.06 REAR DOOR CONTROL

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

2.09.07 COMPARTMENT DOORSKINS

- Shall be flat, mill finish aluminum plate and be removable to service door hardware.
- The doorskin for Compartment #5 shall be painted white aluminum.
- Red/white 1" conspicuity tape shall be shipped loose.

2.09.08 ENTRANCE DOORSKINS

- Shall be white painted aluminum with 20" stainless steel kick panels on the side passage door and on the rear doors.
- Each door skin shall be two (2) pieces, split below the paddle latch.
- Red/white 1" conspicuity tape shall be shipped loose.

2.09.09 ENTRANCE DOORWAYS

- One (1) curbside and two (2) rear module entrance doors shall be provided. The curbside doorway dimensions shall be 31"W x 80.75"H.
- The rear doorway dimensions shall be 36"W x 72"H. (Section 2.09.03 Related)

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.

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 Unistrut track.
- **CABINET # 1 – Electrical Cabinet**
 - Dimensions** – 39"W x 16.5"H x 25"D
 - Location** – Street side, forward
 - Shelving** – None
 - Door(s)** – Aluminum, hinged, swing up door with a hold-open device, a rotating non-keyed lock, and an automatic compartment light.
 - Additional Instructions** – This cabinet shall house the electrical compartment module.

- **CABINET #2**

Dimensions – 40.75"W x 57"H x 25.75"D

Location – Street side

Shelving – Five (5) roll out trays; one (1) fixed, four (4) adjustable

Door(s) – ROM roll up with J236 lock

Additional Instructions – Each tray shall have a yoke arrangement capable of hold five (5) weapons. Trays shall operate on 20" locking slides and have a 300 lb. capacity.
- **CABINET #3**

Dimensions – 44.5"W x 63.5"H x 25.75"D

Location – Street side, center

Shelving – Four (4) on each side of center divider

Door(s) – Webbed net with quick release buckles

Additional Instructions – A center divider with four (4) adjustable shelves on each side shall be installed to make ten (10) equal sized cabinets in this area for storage of cases.
- **CABINET #4**

Dimensions – 44.5"W x 63.5"H x 25.75"D

Location – Street side, center

Shelving – Four (4) on each side of center divider

Door(s) – Webbed net with quick release buckles

Additional Instructions – A center divider with four (4) adjustable shelves on each side shall be installed to make ten (10) equal sized cabinets in this area for storage of cases.
- **CABINET #5**

Dimensions – 32.75"W x 33.5"H x 25.75"D

Location – Street side, rear

Shelving – Two (2) adjustable shelves and one (1) fixed roll out tray

Door(s) – ROM roll up with J236 lock

Additional Instructions – Tray shall operate on 20" locking slides and have a 300 lb.

capacity. The 120VAC Power Box shall be installed in the aft wall (Section 6.21 related), recessed so as not to protrude into the cabinet. One (1) four-plex outlet shall be installed centered vertically on the rear wall of the cabinet. The transfer switch shall be installed on the side wall.

- **CABINET #6 – Drawer**

Dimensions – 37.5"W x 18.5"H x 27"D

Location – Street side, forward

Shelving – None

Additional Instructions – This area shall have one (1) 37.5"W x 18.5"H x 27"D drawer. Drawer shall operate on 18" slides rated at 300 lbs. per set and have a gas shock hold open/closed device to ensure drawer does not accidentally open or close during operation of the vehicle. Drawer shall be formed of aluminum welded construction with an automotive enamel finish and formed structural support on the sides and front of drawer. Drawer shall have a J236 lock.

- **CABINET #7 – Drawers**

Dimensions – 37"W x 9"H x 25"D forward drawer, 19" D aft drawer

Location – Street side, lower

Shelving – None

Additional Instructions – This area shall have two (2) 39"W x 9"H heavy duty drawers with a minimum interior height of 9" to allow storage of ammo cans. Each drawer shall operate on 18" slides rated at 300 lbs. per set and have a gas shock hold open/closed device to ensure drawers do not accidentally open or close during operation of the vehicle. Drawers shall be formed of aluminum welded construction with an automotive enamel finish, and formed structural support on the sides and front of drawers. Drawers shall have J236 locks.

Drawers shall be designed for storage of explosives with drawers split into two sections per drawer. (Explosive mag)

- **CABINET #8**

Dimensions – 40.75"W x 54"H x 25.75"D

Location – Curbside, rear

Shelving – None

Door(s) – ROM roll up with J236 lock

Additional Instructions –An adjustable vertical divider shall be installed on full width unistrut installed on the back wall. Unistrut shall be installed on the forward side wall of the cabinet and the side of the vertical divider to allow future installation of an adjustable shelf. Two (2) restraining straps shall be installed in the aft portion to hold shields. Cabinet and divider shall be painted with gray textured polyurethane. (Section 3.07 related)

- **CABINET #9**

Dimensions – 41.625"W x 41"H x 25.75"D

Location – Curbside, rear

Shelving – Two (2) adjustable roll out trays

Door(s) – ROM roll up with J236 lock

Additional Instructions – Trays shall operate on 20" locking slides and have a 300 lb. capacity.

- **CABINET #10**

Dimensions – 52.75"W x 54"H x 18.75"D

Location – Curbside, center

Shelving – Eight (8) adjustable vertical dividers

Door – ROM roll up with J236 lock

Additional Instructions – Three horizontal strips of unistrut shall be installed on the back wall for installation of eight (8) adjustable vertical dividers for storage of sniper rifle cases. Straps shall be installed in upper and lower portions of cabinet to hold cases securely in place.

- **CABINET #11**

Dimensions – 27.825"W x 44.75"H x 25.75"D

Location – Curbside, forward

Shelving – One (1) fixed roll out tray

Door(s) – ROM roll up with J236 lock

Additional Instructions – This cabinet shall have one (1) vertically sliding rollout tray capable of holding eight (8) weapons. Tray

shall operate on 20" locking slides and have a 300 lb. capacity. The weapons shall be secured upright in the tray using stock mounts and "Quick Fist" upper supports. (Section 5.60X related)

- **CABINET #12 – Drawers**

Dimensions – 30"W x 9.5"H x 25"D

Location – Curbside, forward

Shelving – None

Additional Instructions – This area shall have two (2) 30"W x 9.5"H x 25"D drawers with a minimum interior height of 9" to allow storage of ammo cans. Each drawer shall operate on 18" slides rated at 300 lbs. per set and have a gas shock hold open/closed device to ensure drawers do not accidentally open or close during operation of the vehicle. Drawers shall be formed of aluminum welded construction with an automotive enamel finish, and formed structural support on the sides and front of drawers. The lower drawer shall have machine stamped divider supports along the side for at least four (4) dividers per drawer with four (4) adjustable dividers provided with the drawer. Drawers shall have J236 locks.

- **CABINET #13 – Drawers**

Dimensions – 43.75"W x 8.25"H x 25"D

Location – Curbside, center

Shelving – None

Additional Instructions – This area shall have two (2) 43.75"W x 8.25"H x 25"D drawers. Each drawer shall operate on 18" slides rated at 300 lbs. per set and have a gas shock hold open/closed device to ensure drawers do not accidentally open or close during operation of the vehicle. Drawers shall be formed of aluminum welded construction with an automotive enamel finish, and formed structural support on the sides and front of drawers. Drawers shall have J236 locks.

- **CABINET #14 – Drawer**

Dimensions – 43.75"W x 11.75"H x 25"D

Location – Curbside, rear

Shelving – None

Additional Instructions – This area shall have a 43.75"W x 11.75"H x 25"D drawer. Drawer shall operate on 18" slides rated at 300 lbs. per set and have a gas shock hold open/closed device to ensure drawer does not accidentally open or close during operation of the vehicle. Drawer shall be formed of aluminum welded construction with an automotive enamel finish, and formed structural support on the sides and front of drawer. Drawer shall have machine stamped divider supports along the side for at least three (3) dividers with three (3) adjustable dividers provided. Drawer shall have a J236 lock.

2.11 SIDE DOORSTEP

- A recessed double step doorstep shall be provided which is 19" deep x 31" wide at the curbside passage door. There shall be a drain hole and an open grate step plate, which is removable for cleaning purposes.
- Polished aluminum diamond plate kick panel will be installed on the sides and face of doorstep.

2.12 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: Freightliner Black

- Module Roof – White – (SW G8-33631 alt 2) with non-slip surface cut-in 2" from the edge of roof

3.04.01 CHASSIS COLOR SCHEME

- Color Code: Freightliner Black

3.05 LETTERING/DECALS

- An allowance of \$3,000.00 shall be provided for graphics and lettering. Graphics and Letterings to be determined at pre-construction meeting.

3.06 COMPARTMENT FINISH

- All compartments shall be painted with gray textured polyurethane.

3.07 INTERIOR CABINETRY FINISH

- All interior cabinetry shall be sanded, etched, washed, primed, and painted white with gray splatter. (SW G8-33631 alt 2) (#G8-51748). Cabinets #2 and #8 shall be painted with gray textured polyurethane.

3.08 MODULE FLOORING MATERIAL

- Shall be Genome (#TFM2702) Altro Transflor Meta Slip-Retardant Sheet flooring providing durability, ease of maintenance, and stain resistance. It shall contain a high concentration of microscopic aluminum oxide particles and colored quartz crystals suspended throughout the thickness with silicon carbide grains in the entire wear surface for slip-retardant performance. It shall have a bacteriostat incorporated to give flooring excellent anti-bacterial activity and an overall thickness of 0.11" nominal.
- Flooring shall be manufactured for Wear Resistance to meet ASTM C 501, indentation resistance in accordance with ASTM F 1303 and ASTM F 970, Grade 1 standards, shall meet ASTM D 2047 Slip Retardant, ASTM F 970 Static Load, ASTM E648, CMVSS, FMVSS 302, CAN ULC S102.2 Fire Data Tests.
- An insulated floor shall be installed over the subfloor. It shall be constructed with square tubing (0.75" x 0.75" x 0.125"), filled with 0.75" thick polystyrene foam insulation, and covered with 0.125" aluminum sheet. (Section 2.04 related)

- 3.09 COMPARTMENT LINING**
- Compartment floors and shelves shall be lined with light gray Mate'flex material.
- 3.10 CABINET LINING**
- Interior cabinet shelves shall be lined with easy sweep mats which are removable for ease of cleaning.
- 3.11 SURFACES AND FINISHES**
- All surfaces and finishes shall be impervious to soap, disinfectants, and water, to permit washing and sanitizing.
- 3.12 AUTOMOTIVE UNDERCOATING SEAL**
- The entire chassis and module underbody (excluding drive shafts, wheels, exhaust system, air lines tanks and sytem components, electrical wiring and harnesses, and lubrication fittings, per manufacturer's specifications) shall be sprayed with undercoating for reduced corrosion and added sound deadening.
- 3.13 NON-SLIP ROOF**
- The roof shall be finished as a white non-slip surface. A 2" lip out from the cutout shall not be finished as a non-slip surface.
- 4 MODULE EXTERIOR**
- 4.01 STEP/BUMPER**
- Shall be a welded construction of 3" x 3" x 0.375" aluminum angle and 2" x 0.250" plate and shall be covered by 0.125" bright aluminum diamond plate.
 - The center section, below the doors, shall have a grip strut open flow design to prevent accumulation of water and snow and provide a 10" step.
 - The outermost 12" of each end shall be angled to prevent dragging of corners in high angle of approach/departure areas.
 - Diamond plate shall be formed on front and rear edges for channel type strength and formed 0.090" aluminum close out shall be welded to the underside of the step/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.

- A hinged step shall be installed to fold up and over the bumper when not in use.
- Bumper and hinged step to be black powder coated to match module.

4.02 RUB RAILS

- Shall be black powder coated extruded aluminum of a double channel design and 0.125" wall thickness for maximum strength.
- Rub rails shall be 2.5" high x 0.75" wide and run along the lower edge of body, interrupted only by wheel well opening.
- A red/white conspicuity reflective tape shall be determined at pre-build.

4.03 FENDER RINGS

- Shall be installed on the module. Fender rings shall be black rubber following the full contour of the wheel well opening.

4.04 DRIP RAIL

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

4.05 ROCK GUARDS

- Made of aluminum diamond plate with a black powder coated finish shall cover front module corners 24" up from bottom of body, 2.5" down side of body, and meet the cab at the front of the body.

4.06 REAR STEP GUARD

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

4.07 FUEL FILLS

- Shall be on the module and have polished cast aluminum fill wells and be properly vented. All fuel filler hoses will be protected with a 0.125" aluminum protection plate. Fuel fills shall be installed in accordance with "Body Builder's" recommendation.

4.08 TELESCOPIC LIGHTS

- Shall be two (2) 350 watt, Kwik Raze Magnafire 3000 Model #KR-833 TM tripod truck mount lights installed on the rear of the module with a 4" standoff.
- Each light shall be controlled by a switch on the light head. A 120VAC weatherproof outlet shall be installed near each light.

4.09 STEP, ELECTRIC

- Shall be provided and mounted under the curbside door. It shall be a Kwik Model and be wired to open and close with the side door.

4.10 AWNING(S)

- Two (2) 18' Colorado Carefree One-Touch Apex electric awning shall be installed, one (1) on the street side and one (1) on the curbside of the module.
- Control panels shall be installed just inside the curbside passage door of the module.

4.11 FOLD-DOWN STEPS

- Four (4) Cast Products folding step/handholds shall be mounted on the rear to the left of the entrance doorway of the module.

4.12 GRAB BARS (EXTERIOR)

- Two (2) 12" stainless steel grab handle shall be installed on the street side roof to assist in access to the roof.

4.13 EXTERIOR BRACKETS

- Three (3) stainless steel mounting brackets shall be installed, one (1) on the curbside, two (2) on the street side. Brackets shall provide mounting locations for white magnetic marker boards to be used on module exterior. (Section 5.23X related)

4.14 MISCELLANEOUS EXTERIOR EQUIPMENT

- One (1) ladder storage rack shall be mounted on the street side portion of the roof. The rack shall be constructed with rails to guide the ladder, a stop at the forward portion of the mount and tie-downs to hold the ladder in place.
- A stainless steel plate shall be installed on the edge of the roof to protect the paint when ladder is being loaded or unloaded.

5 MODULE INTERIOR**5.01 INTERIOR FINISH**

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

5.02 UPPER WALL COVERING

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

5.03 HEADLINER

- Shall be fiberglass reinforced 0.080" "Glasboards" with textured white surface.

5.04 MODULE ACCESS OPENING BUMPERS

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

5.05 ACCESS DOOR GRAB RAILS

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

5.06 INSULATION

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

thickness depending upon location and available space.

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

5.07 MODULE CLIMATE CONTROL SYSTEM

- One (1) 120V AC Coleman Model #HP2 RV roof top Heat Pump unit with a total of 15,000 BTU heating/ 12,000 BTU cooling shall be installed.
- The unit shall have a fan and controls independent of the cab system. The unit shall be mounted on the roof and run off of 120 shoreline power and be wired to the generator.

5.08 NO SMOKING/FASTEN SEAT BELTS SIGNS

- "No Smoking/Fasten Seat Belt" signs shall be installed - one (1) each for driver's area.

5.09 WHITE MARKER BOARD

- Three (3) painted white magnetic dry marker boards shall be installed on the module interior.
- The boards shall be held in place with an offset flange and Velcro fasteners and be removable for use on the brackets mounted on the exterior of the module. (Section 4.50X related)

5.10 INTERIOR EQUIPMENT

- A table storage area shall be below the painted white aluminum dry marker board at the front of the module. A restraining strap shall be provided and shipped loose for customer installation.

6 ELECTRICAL

6.01 WIRING PROVISIONS

- All added body and chassis electrical equipment shall be served by circuits separate and distinct from the vehicle chassis circuits. All vehicle wiring shall be copper and conform to all SAE J1128 requirements.
- The wiring shall be colored, numbered, and function coded every 3" for permanent identification and correspond with the vehicle schematics.
- Solderless, insulated connectors shall be used.

- Wiring panduit shall be used in power component module to ensure air circulation throughout power component wiring.
- The wiring shall be routed in conduit or looms and wiring shall be secured to the underbody or frame with insulated metal cable straps. All power distribution cabling shall be covered with a protective split loom.
- Where wiring passes over the exhaust, a heat shield shall be installed. Wiring and electrical components shall not be placed under or behind the cab seats. The power component module shall be equipped with positive locking plugs to provide easy disconnect for remount or repair of body.
- All wiring devices, switches, outlets, etc., except circuit breakers, shall be rated to carry 125% of the maximum ampere load for which the circuit is protected.

6.02 OVERLOAD PROTECTION DEVICES

- Body electrical wiring shall utilize overload protective devices of the automatic reset, circuit breaker type.
- In addition, two (2) single pole, 20-amp circuit breakers shall be provided for future use.
- The circuit breakers, relays, and other electrical items shall be located in the enclosed power component module.

6.03 WIRING ACCESS

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

6.04 BACK-UP ALARM

- Shall be installed. The alarm shall have a sound output level of 97 dB and have a momentary disable switch in the driver's console

6.05 SERVICE LOOP

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

6.06 DRIVER'S CONSOLE

- Made of formed black powder coated aluminum, shall be installed. Console shall have a drop in cup holder, three (3) brushed aluminum dividers, and a customer specific panel. The panel shall include the following:
- Siren
- Radio head (supplied by customer)
- Generator Remote Panel
- Combined Door/Compartment Open Warning Light

6.07 MAP LIGHT

- A Sunnex Model #741-20 map light shall be mounted in the cab area.

6.08 DOOR AJAR WARNING LIGHT

- A red flashing warning light on driver's console shall be provided to warn driver of open passenger access doors or open exterior compartment doors.

6.09 MODULE INTERIOR LIGHTING

- Shall be designed to keep vehicle height to a minimum without interfering with the structural integrity of the roof.
- There shall be eight (8) fluorescent lights recessed in the ceiling on the centerline. Four (4) lights shall have red lens covers.
- Two (2) On/Off switches (one for red lights, one for white lights) for the fluorescent lights shall be located near the curbside passage door and two (2) On/Off switches (one for red lights, one for white lights) shall be located near the rear doors.
- Lights shall not come on automatically with opened doors.

6.10 BASIC EXTERIOR LIGHTING

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

- Rear stop, turn, side marker, back-up lights, and side clearance lights shall be "Truck-Lite" sealed units.
- A disable switch for all exterior lighting shall be programmed into the Unitrol siren.

6.11 **COMMUNICATIONS EQUIPMENT**

- The customer shall be responsible for powering up and tuning of the radio equipment.
- Item #1 Description: Install one (1) "**Customer Supplied**" Motorola XLT 5000 radio Location: Main Radio in Compartment #5, other in driver's console Instructions: Radio wired to have radio traffic sent through PA system to siren speaker allowing radio to be heard outside the vehicle.
- Item #2 Description: One (1) TV type coaxial cable Location: Compartment # 5 to exterior plug in on curbside of module Instructions: Allows hookup to cable TV connection
- Item #3Description: Radio Coaxial cable Location: Compartment #1 to Compartment #5 Instructions: Future radio Connection (exact location at pre-build)
- (2) One (1) 42" LCD/Plasma television with fixed &/or swivel mount. All respective cables, padding and electronic connections included. T.V. to be mounted in exterior compartment #5.Customer and vendor to agree at pre-build meeting, brand, type, resolution and bracket capabilities.

6.12 **ANTENNA MOUNTS AND CABLES**

- Two (2) NMO universal antenna mounts with KHFUD cables and Larsen HyPer master universal connectors and mini-UHF adapters shall be installed on the module.
- Antenna base access shall be through the dome light openings, and the cables shall terminate in Compartment #5.

6.13 **SHOREPOWER/GENERATOR LOAD CENTER**

- Utility power shall be furnished with 120VAC shorepower via one 20 amp Kussmaul receptacle located on the rear of the module and distributed through a recessed Load Center power box, flush mounted in Cabinet #5, so as to maximize compartment space.

- The Load Center shall be wired with an input cord for a generator hookup. All 120VAC outlets shall be GFI protected.
- A transfer switch shall be furnished and wired between generator and shoreline. This will provide power to selected 120VAC items from either electrical source.
- The load center shall have breakers to isolate as follows:
 1. BatteryCharger
 2. Exterior Receptacles/SS
 3. InteriorReceptacles
 4. Exterior Receptacles/CS
 5. HVAC
 6. Blank
 7. Blank
 8. Blank
- Two (2) 120VAC duplex outlets shall be installed in Compartments #1 and #2, two (2) in Compartment #5, two (2) in Compartment #6, and one (1) 120VAC four-plex outlet in Cabinet #5.
- Four (4) weatherproof 120VAC duplex grounded outlets shall be mounted, one (1) street side above the wheelwell, one (1) curbside above the wheelwell, two (2) on the module rear at the pole lights.
- All circuits will be identified at panel and at switches/lights/duplex plugs.

6.14 BATTERY GROUNDS

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

6.15 BATTERY CHARGER

- An 80-amp minimum battery charger/conditioner shall be provided and wired to shoreline. 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.

6.16 COMPARTMENT LIGHTING

- An LED strip light shall be installed in all outside compartments and shall be activated by a door switch.

6.17 EXTERIOR DOOR SWITCHES

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

7 EMERGENCY WARNING SYSTEMS**7.01 FRONT LIGHTBAR**

- Shall be a 100" Whelen #4500 Plus Lightbar.
- Pattern from curbside to street side as follows: Red lens Red Super LED flasher, Red lens Red Super LED flasher, Blue lens Blue Super LED flasher, Forward Facing Load Light, Steady LED Red, Forward Facing Load Light, Blue lens Blue Super LED flasher, Red lens Red Super LED flasher, Red lens Red Super LED flasher.
- The light bar shall be recess mounted with horizontal plane of the roof, and protrude no more than 1/2" beyond the vertical plane of the front and sides of the module.
- The clearance lights shall be an integral part of the light bar.

7.02 REAR LIGHTBAR

- Shall be a 100" Whelen #4500 Plus Lightbar.
- Pattern from curbside to street side as follows: Red lens Red Super LED flasher, Amber lens Amber Super LED flasher, Blue lens Blue Super LED flasher, 17 Degree Scenelight, LED Brake Light, 17 Degree Scenelight, Blue lens Blue Super LED flasher, Amber lens Amber Super LED flasher, Red lens Red Super LED flasher.
- The bar shall include an LED brake/clearance light over the center lights. The LED clearance lights shall be an integral part of the light bar.
- The rear doors shall activate the rear scenelights. The light bar shall be recess mounted with the horizontal plane of the roof,

and protrude no more than 1/2" beyond the vertical plane of the rear and sides of the module.

7.03 FLASHERS

- Four (4) Super LED flashers shall be mounted two (2) on each side of module in upper corners.
- Lights shall be two (2) Whelen #90RR5FRR Red lens Red Super LED flashers and two (2) Whelen #90BB5FBR Blue lens Blue Super LED flashers.
- Two (2) Amber LED flashers shall be mounted on the rear of the vehicle at mid height. Lights shall be Whelen #70A02FAR.

7.04 SCENELIGHTS

- Four (4) parabolic scenelights shall be installed, two (2) on each side of the module.
- The scenelights shall be flush mounted and have internal optics to deflect the light down at 8-32 degree angles.
- The lights shall be Whelen Model #90E000ZR Opti-Scene lights.
- Switches for the scene lights shall be programmed into the Unitrol siren. None of the scene lights shall be automatically activated, lights will be controlled by switches only.

7.05 INTERSECTION LIGHTS

- Four (4) Intersection lights shall be installed, one (1) on each fender and one (1) above each wheel. These shall be Whelen #50R03ZRR Red lens Red Super LED lights with flange.

7.06 GRILLE LIGHTS

- Shall be one (1) Whelen #50R03ZRR Red lens Red Super LED, and one (1) Whelen #50B03ZBR Blue lens Blue Super LED with flange.

7.07 SIREN

- Shall be a Whelen 295HFS4 siren. Siren options to include radio, horn, manual, wail, yelp, and phaser. The switches shall control emergency light functions as follows:

#1 - Rear Amber Lights (rear lightbar and 700 series amber lights on rear)

- #2 - All Lights
- #3 - All Lights and Siren
- #4 – FrontScene (including lightbar)
- #5 – Left Scenes
- #6 – Right Scenes
- #7– RearScenes (including lightbar)
- #8 – Spare
- #9 – Spare

7.08 SIREN SPEAKERS

- Shall be Cast Products "Thru-the-Bumper" mount system #5403-1 with two (2) 100-watt speaker drivers.

7.09 MODULE SPEAKERS

- Two (2) speakers shall be installed in the module and connected for use with the cab radio, TV monitor sound from Compartment #5.
- The fader switch shall be installed in a location to be determined. The final configuration shall be determined at the pre-construction meeting.

7.10 GENERATOR

- A 6kW Onan diesel generator shall be provided and installed in Compartment #3 and wired to all 120VAC outlets.
- Generator shall be plumbed to draw from the vehicle fuel tank but not draw the fuel tank below 1/4 full.
- Two (2) remote start panels shall be provided: one (1) on the driver's console, and one (1) located on the curbside wall just inside the side passage door.

8 SUPPORTING DOCUMENTATION

8.01 DRAWINGS/MANUAL

- Successful Bidder shall furnish one (1) set of maintenance, repair, and parts manuals. This set to be on CD for PC, if applicable. All publications to be delivered with the vehicle.
- Manuals shall include "As-Built" body wiring diagrams.

- If not included in the above publication requirements, the following publications shall also be provided:
 - (1) Illustrated engine and transmission, service and parts manuals, listing all parts and only those parts pertaining directly to the model chassis furnished.
 - (2) One (1) set of parts, service and operators manuals for the diesel generator and body module assembly.
 - (3) Training CD's, if available.
 - (3) There shall be one line setting ticket or invoice, and one certified weight ticket with front axle, rear axle and tire weight.
 - (4) Two operator manuals shall be furnished with the truck.
- 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.
NO EXCEPTION
- 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

- The following shall be provided with vehicle and consists of the following items:
 1. 4 sets of keys.
 2. Lifetime module warranty.
 3. 7-Year/75,000 miles limited electrical warranty.
 4. 2-Year/30,000 mile Conversion Warranty.
 5. 5 Year Paint Warranty.
 6. Module remount engineering check list.
 7. Climate control information and warranty.
 8. Main schematic.
 9. Electrical equipment amperage ratings.
 10. Wire coding list.
 11. 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
 12. Schematics for individual options.
 14. Warranty and parts list for light bar, etc.

9 MISCELLANEOUS MEDICAL/RESCUE EQUIPMENT

9.01 LOOSE EQUIPMENT

- The following equipment shall be shipped loose with the vehicle:
 1. Touch Up Paint
 2. Cord End for Shoreline (20 amp)
 3. One (1) set of wheel chocks

9.02 CUSTOMER SUPPLIED EQUIPMENT

- The customer shall provide the following equipment and have delivered to manufacturer:
 1. One (1) Motorola XLT 5000 dual head radio

10 INSPECTIONS AND DELIVERY

10.01 MEETINGS/INSPECTION

- Bid price shall include trips for two (2) people for pre-construction meeting and final inspection.
- Trips to include lodging, meals, airfare, and transportation between factory and airport.
- Inspection party may include one person from Fleet Services. Travel expenses for this person will be borne by the customer.

10.02 SERVICE AND PARTS

- The bidder shall state below, the representatives responsible for repairing the modular, which shall furnish a complete supply of parts and components for the repair and maintenance of the cab/chassis units to be supplied. The bidder shall also state below, or by separate attachment, its policy on transportation charges for parts other than those covered by warranty.
- Location of nearest Technical Service Representative:
Address: _____
Telephone: _____
- Policy for delivery of parts and components to be purchased for service and maintenance:
Regular method of shipment: _____
Cost to City: _____

10.03 TRAINING

- The successful bidder shall provide factory authorized training, to include operation and maintenance procedures to be held at a designated location in the City of Beverly Hills.
- Factory training available: YES / NO

SUBSECTION B - SPECIAL REQUIREMENTS

1. The successful bidder will complete all documents and / or file all applications necessary to obtain exempt registration and license plates for vehicle(s) covered by this bid from the California Department of Motor Vehicles in the name of the City of Beverly Hills, 455 North Rexford Drive, Beverly Hills, California 90210, before the vehicle(s) are delivered. Ownership Certificate(s), Registration(s) and license plates must be delivered with the vehicle(s).
2. Delivery is an important consideration in award of this bid. Bidder will be strictly bound to his commitments. Delivery credit should be clearly outlined if delivery is not included in the final bid.
3. Vehicle(s) covered by this bid, including all equipment and accessories, must comply with all requirements of the California Vehicle and Federal Motor Vehicle Safety Standards for 1997 vehicles, and safety orders of the California Division of Industrial Safety, including all amendments thereto.
4. Bidder is to state warranty period(s) on all vehicle(s).
5. City shall be the sole and final judge of compliance with bid specifications and reserves the exclusive right to award this bid in any manner it deems to be in the best interests of the City.

SECTION IV - BID FORM

(Must be completed by Vendor)

The undersigned proposes to furnish all materials, supplies, equipment or services set forth herein subject to all conditions outlined in the Bid Document, including the general instructions and information to bidders, at prices indicated below:

Bid Proposal: \$ _____

Payment Terms: _____

Exceptions or Deviations attached (Check appropriate box) YES NO

Delivery: _____ (Number of Days)

Company Name: _____

Address: _____

Telephone: _____ Fax: _____

Contact Email: _____

Person Submitting Bid: _____
(Print Name)

Title: _____

Signature: _____

F.O.B.

All prices of the bid shall be F.O.B. destination Beverly Hills, California; and delivery to any point within Beverly Hills shall be without additional charge.

TAX

All bid proposals shall be exclusive of tax; City staff will compute all tax involved when applicable.

ACCEPTANCE OF PROPOSAL

The City reserves the right to accept or reject any and all bids and reserves the right to waive technicalities where such action best serves the interests of the City. The manufacturer of the proposed materials or equipment may be required to acknowledge by written conformation that the minimum requirements of the specifications are included in the Bidder's proposal before the award of the bid.

EXCEPTIONS

Any bidder's exceptions to these terms or conditions or deviations from the written specifications shall be shown in writing and attached to bid form. However, such exceptions or deviations may result in bid rejection.

INSURANCE (applicable to successful bidder who may come into the City)

- (1) **Commercial general liability** coverage at least as broad as Insurance Services Office Commercial General Liability occurrence coverage ("occurrence" form CG0001, Ed. 11/85) with a limit of not less than \$2,000,000 (Two Million Dollars) per occurrence. If the insurance includes a general aggregate limit, that limit shall apply separately to this contract or it shall be at least twice the required per occurrence limit.
- (2) **Business automobile liability** insurance at least as broad as Insurance Services office form CA 0001 (Ed. 1/87) covering Automobile Liability, code 1 "any auto" and endorsement CA 0029 (Ed. 12/88) with a limit not less than \$1,000,000 (One Million Dollars) per accident.
- (3) **Workers Compensation** Insurance as required by the State of California and **employers liability** insurance with a limit not less than \$1,000,000 (One Million Dollars) per accident.

All insurance coverages shall be provided by insurers with a rating of B+; VII or better in the most recent edition of Best's Key Rating Guide, Property-Casualty Edition.

Work on City property covered by a purchase order cannot be commenced until certificates of insurance have been approved.

Please use the official City of Beverly Hills certificate of insurance form (attached). If you use another form, the following requirements must be met to make the certificates acceptable to the City:

| | |
|---|---|
| 1 | name the City of Beverly Hills as additional insured for both GENERAL liability and AUTO liability; and |
|---|---|

| | |
|---|--|
| 2 | Have at least thirty (30) days written notice of cancellation. |
|---|--|

All certificates of insurance must remain current until the purchase order expires or is sooner cancelled.

AFTER THE ACCEPTANCE AND AWARD OF THE BID BY THE CITY COUNCIL UPON RECEIPT OF A WRITTEN PURCHASE ORDER EXECUTED BY A PROPER OFFICER OF THE CITY, THIS DOCUMENT WILL CONSTITUTE THE LEGAL CONTRACT BETWEEN THE CITY AND THE SUCCESSFUL BIDDER.

If your response is **"NO BID"**, please explain below:

COMPANY NAME: _____

ADDRESS: _____

CITY, STATE, ZIP CODE: _____

TELEPHONE NUMBER: _____

FAX NUMBER: _____

BY: _____
(Print Name)

(Signature)

(Title)

(Date)

PLEASE RETURN TO:

**CITY OF BEVERLY HILLS
OFFICE OF THE CITY CLERK, ROOM 290
455 NORTH REXFORD DRIVE
BEVERLY HILLS, CA 90210**

(Attn: Bid 11 – 28)

(END)

Attachment 2

SUBSECTION B - SPECIAL REQUIREMENTS

1. The successful bidder will complete all documents and / or file all applications necessary to obtain exempt registration and license plates for vehicle(s) covered by this bid from the California Department of Motor Vehicles in the name of the City of Beverly Hills, 455 North Rexford Drive, Beverly Hills, California 90210, before the vehicles(s) are delivered. Ownership Certificate(s), Registration(s) and license plates must be delivered with the vehicle(s).
2. Delivery is an important consideration in award of this bid. Bidder will be strictly bound to his commitments. Delivery credit should be clearly outlined if delivery is not included in the final bid.
3. Vehicle(s) covered by this bid, including all equipment and accessories, must comply with all requirements of the California Vehicle and Federal Motor Vehicle Safety Standards for 1997 vehicles, and safety orders of the California Division of Industrial Safety, including all amendments thereto.
4. Bidder is to state warranty period(s) on all vehicle(s).
5. City shall be the sole and final judge of compliance with bid specifications and reserves the exclusive right to award this bid in any manner it deems to be in the best interests of the City.

SECTION IV - BID FORM
(Must be completed by Vendor)

The undersigned proposes to furnish all materials, supplies, equipment or services set forth herein subject to all conditions outlined in the Bid Document, including the general instructions and information to bidders, at prices indicated below:

Bid Proposal: \$ 232,083.00

Payment Terms: Standard Beverly Hills terms.

Exceptions or Deviations attached (Check appropriate box) YES N/A NO N/A

Delivery: 200-220 days (Number of Days)

Company Name: Braun Northwest, Inc.

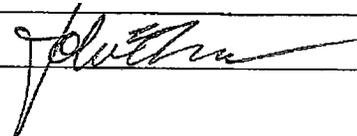
Address: 150 North Star Drive, Chehalis, WA 98532

Telephone: 800-245-6303 Fax: 360-748-0256

Contact Email: sales@braunnorthwest.com, sales@braunnw.com

Person Submitting Bid: John E. Braun
(Print Name)

Title: President

Signature: 

Freightliner (FTL)



Run Smart

Freightliner Medium-Duty/Business Class

| Description | Coverage | |
|---------------------------|-------------------|-----------------------|
| | Time ¹ | Distance ¹ |
| Basic Vehicle | 2 Years | Unlimited |
| Battery | 1 Year | 100,000 mi/161 000 km |
| Brightwork | 6 Months | Unlimited |
| Cab Corrosion/Perforation | 5 Years | Unlimited |
| Cab Structure | 2 Years | Unlimited |
| Chassis Paint | 6 Months | Unlimited |
| Corrosion | 6 Months | Unlimited |
| Crossmembers | 5 Years | Unlimited |
| Drivetrain | 2 Years | Unlimited |
| Frame Rails | 5 Years | Unlimited |
| Paint | 1 Year | 100,000 mi/161 000 km |
| Steer Axle ² | 2 Years | Unlimited |

¹Time or distance, whichever comes first

²Steer axle coverage-group applies to glider only.

Warranty Statement & Warranty Coverage Descriptions follow on page two of this document.

The information provided in this document is for general information only and is not offered as customer's warranty.

This coverage may be superseded without notification.

Copyright © Daimler Trucks North America LLC. All rights reserved. Daimler Trucks North America LLC is a Daimler company.

Warranty Coverage Exclusions

Daimler Trucks North America LLC

Warranty Statement

1.00 NEW VEHICLE COVERAGE

The following section outlines Company standard warranty coverages for all Company vehicles, apparatus or trailers sold and domiciled in the USA (50 states and Washington, D.C.), Puerto Rico, and Canada. This section is also included in the Operator's Maintenance and Owner's Warranty Information Booklet.

1.01 NEW VEHICLE LIMITED WARRANTY

Under this New Vehicle Limited Warranty ("Warranty"), Company warrants that each new vehicle will be free from defects in material and workmanship that occur under normal use within the applicable warranty period, subject to certain limitations and exclusions as specified in this document.

This Warranty covers all components and parts unless specifically covered by other warranties or otherwise excluded by this document.

1.02 LIMITATIONS

This Warranty does not apply to vehicles that are sold or domiciled outside of the United States (50 states and Washington, D.C.), Puerto Rico, or Canada.

This Warranty does not apply to engines, Allison or Twin Disc transmissions, tires, or other components or parts that are not manufactured by Company and that are warranted directly by their respective manufacturers. With respect to the foregoing, Company makes no warranty whether express, implied, statutory or otherwise including, but not limited to, any warranty of merchantability or fitness for a particular purpose.

THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OF ANY KIND WHETHER WRITTEN, ORAL, OR IMPLIED INCLUDING, BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY SPECIFICALLY EXCLUDES ANY OTHER WARRANTIES OR CONDITIONS PROVIDED FOR BY LAW, WHETHER STATUTORY OR OTHERWISE.

COMPANY'S SOLE OBLIGATION UNDER THIS WARRANTY SHALL BE TO REPAIR OR REPLACE, IN COMPANY'S SOLE DISCRETION, ANY DEFECTIVE COMPONENT OR PART. SUCH REPAIR OR REPLACEMENT SHALL BE WITHOUT COST TO PURCHASER WHEN PERFORMED WITHIN THE APPLICABLE WARRANTY PERIOD (TIME, DISTANCE, OR HOUR LIMIT, WHICHEVER OCCURS FIRST).

Purchaser must notify Company within the applicable warranty period, of any failure of the vehicle to comply with this Warranty and Purchaser must, at Purchaser's expense, promptly return the vehicle to an authorized Dealer for inspection and repair or replacement of any defect in material or workmanship occurring within the applicable warranty period.

The vehicle must be maintained and serviced according to the prescribed schedules outlined in the Driver's/Operator's and Maintenance Manuals. Receipted bills and other evidence that required maintenance and service have been performed are required by Company as a condition of this Warranty.

After the Company's obligations under this Warranty expire, all liabilities of Company to Purchaser under this Warranty shall terminate. Repairs made under this Warranty do not constitute an extension of the original Warranty period for the vehicle or for any specific component or part.

To the extent that any provision of this Warranty contravenes the law of any jurisdiction, such provision shall be inapplicable in such jurisdiction, and the remainder of the warranty shall not be affected.

1.03 PURCHASER'S EXCLUSIVE REMEDY

THIS WARRANTY SHALL BE THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY AGAINST COMPANY, WHETHER IN CONTRACT, UNDER STATUTE (INCLUDING STATUTORY PROVISIONS AS TO CONDITIONS AS TO QUALITY OR FITNESS FOR ANY PARTICULAR PURPOSE OF GOODS SUPPLIED PURSUANT TO THE CONTRACT OF SALE), WARRANTY, TORT, STRICT LIABILITY, OR ANY OTHER LEGAL THEORY.

1.04 LIMITATION OF LIABILITY

COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE COST TO REPAIR OR REPLACE, IN COMPANY'S SOLE DISCRETION, THE DEFECTIVE COMPONENT OR PART THAT IN NO EVENT SHALL EXCEED THE FAIR MARKET VALUE OF THE VEHICLE AT THE TIME THE DEFECT IS DISCOVERED.

IN NO EVENT SHALL COMPANY BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, INJURIES TO PERSONS OR DAMAGE TO PROPERTY, LOSS OF PROFITS OR ANTICIPATED PROFITS, OR LOSS OF VEHICLE USE.

Coverage Descriptions

Axles

Coverage includes all factory-installed steer axles; drive axles; tag axles; and pusher axles. Excludes any axle installed by a dealer or body builder.

Drive Axle(s)

Coverage includes axle housing, carrier assembly, differential assembly, power divider, axle shafts, and gaskets and seals. Excludes suspension and torque rod brackets, tie rod ends, wheel end equipment, wiring, yokes, and attaching hardware.

Pusher Axle

A pusher axle is a non-driven, weight-bearing axle that can be raised when not required to bear a portion of the load. Since the pusher axle can be of many different configurations, warranty coverage includes all components included in the individual build specification of each individual application.

Steer Axle

Coverage includes I-beam, steering knuckles, differential on drive steer axle, spindles, kingpins, kingpin bearings and steering arms. Excludes wheel end equipment, tie rod ends, steering linkage components, kingpin bushings, and king pin seals.

Tag Axle

A tag axle is a non-driven, continuous weight-bearing axle. Since the tag axle can be of many different configurations, warranty coverage includes all components included in the individual build specification of each individual application.

Battery

Only Freightliner LLC's private brand-label (Alliance Brand Parts), Mopar (Sterling Bullet only), and Furukawa (STL360 Model only) batteries will be warranted. Any other brand of battery is excluded from Company coverage. Claims for all other brands must be submitted directly to the supplier. Warranty coverage includes the battery assembly only.

Basic Body

Coverage includes body emergency lighting and controls; hinged and rollup compartment doors; body trim; body lighting and controls; body electrical systems.

Basic Chassis

Coverage includes all factory-installed components of the vehicle/chassis that are not excluded elsewhere in the warranty, or by special agreement or described as having a different time, or distance or hours, or listed separately on each new vehicle warranty coverage chart.

Basic Vehicle

Coverage includes all factory-installed components of the vehicle/chassis that are not excluded elsewhere in the warranty, or by special agreement or described as having a different time or distance, or listed separately on each new vehicle warranty coverage chart.

Body Electrical

Coverage includes body wiring harness(es) only.

Body Structure

Coverage includes compartments and body panels; hinged compartment doors; fire pump closure; body frame and sub-frame, if applicable. Excludes surface corrosion caused by chips or scratches.

Body Structure and Corrosion

Coverage includes compartments and body panels; hinged compartment doors; fire pump closure; body frame and sub-frame, if applicable. Excludes surface corrosion caused by chips or scratches.

Brightwork

Coverage includes all factory-installed components with chrome, polished aluminum, or polished stainless steel surfaces. Excludes any damage to bumper, backside of bumpers, and concealed or inner surfaces.

Cab Corrosion/Perforation

Coverage is limited to rust-through or perforation of the cab end integral sleeper structure and sleeper box (if applicable) due to corrosion from within. Excludes all conditions of rust or corrosion that has not resulted in rust-through or perforation as well as surface rust or corrosion caused by non-adhesion. Excludes any damage to the paint such as chips or scratches.

Cab Structure

Coverage includes cab and integral sleeper structural components, structural components of factory installed sleeper boxes (if applicable), sheet metal panels, doors, and hoods. Excludes all bolt-on components including door and hood hinges, latches, guides, and other mounting hardware.

Corrosion

Coverage provides warranty against corrosion to any metal or metal alloy part of the vehicle. Rust or corrosion to specific components and/or caused by certain conditions are excluded from all Company warranty coverage and will not be paid under Basic Vehicle, Cab Structure, Cab Corrosion, or Aftermarket Parts Warranty. Exclusions to corrosion warranty include, but are not limited to, the following:

- Corrosion caused by general rust (for example, rust on the unfinished backside of a bumper)
- Corrosion caused by rust caused by chips or scratches in the paint or chrome surfaces
- Corrosion caused by high-pressure washing, severe wash solutions, cleaning solvents, detergents, compounds
- Corrosion caused by salinity in the environment or corrosive salts and/or chemicals used on the road surface.
- Corrosion caused by acid rain or other industrial fallout
- Corrosion due to improper prevention measures during storage or use

- Corrosion or rust on tone rings, rotors or drums (rotor exclusion does not apply to hydraulic discs with Magna-Coat Rotors)

- Corrosion due to environmental damage (including ocean spray); airborne fallout (includes chemicals, tree sap, etc.), or other atmospheric conditions or other acts of nature

- Corrosion due to improper use, misuse or abuse, negligence, including improper or insufficient maintenance

Cowl Corrosion/Perforation

Coverage is limited to rust-through or perforation of the cowl due to corrosion from within. Excludes all conditions of rust or corrosion that have not resulted in rust-through or perforation as well as surface rust or corrosion caused by non-adhesion. Excludes any damage to the paint such as chips or scratches.

Cowl Structure

Coverage includes cowl structural components, sheet metal panels, and hood. Excludes all bolt-on components including hood hinges, latches, guides, or other mounting hardware.

Crossmembers

Coverage includes crossmembers, gussets, and hook-mounting bolts that attach gussets to crossmembers and gussets/crossmembers to frame rails. Excludes any bolt-on item attached with either conventional or hook bolts.

Driveline

Coverage includes driveshaft tubing, U-joints, yokes, support bearings, and splines.

Drivetrain

Coverage includes transmission, (except Allison transmissions) steer axle(s), drive axle(s), and transfer case. Excludes tag axle(s), pusher axle(s), driveline, and U-joints.

Frame Rails

Coverage is limited to breaking or cracking of factory installed frame rails, frame rail liners, frame rail extensions, and any item(s) factory welded to them. Excludes all bolt-on items regardless if attached with conventional or hook bolts.

Glider

An incomplete vehicle which may be ordered with or without engine and/or major drive train components; warranty coverage includes all components as specified in the specific build specification.

Off Road On-Site Assistance

Coverage is exclusively available for off road vehicles that are prohibited from use on public streets. If this coverage is provided, it will be specifically included in the coverage table as a separate category. Coverage includes on-site assistance and/or equipment transportation to the nearest authorized repairing location for a Daimler Trucks North America LLC warrantable repair.

Paint (Body, Cab, & Cowl)

Paint coverage excludes lack-of-gloss issues on vehicles painted with low gloss colors; the underside of hoods and roof and side mounted air fairings; and any damages to the paint or painted surface such as chips and scratches.

Body Paint

Coverage includes all factory-painted exterior body surfaces. Warranted against orange peel; peeling/delaminating; cracking or checking; or loss of gloss due to cracking, checking or hazing.

Cab Paint

Coverage includes all factory-painted exterior surfaces (except those included in chassis paint coverage). Warranted against orange peel; peeling or delaminating; cracking or checking; or loss of gloss due to cracking, checking or hazing.

Cowl Paint

Coverage includes all factory-painted exterior surfaces of cowl structure (except those included in chassis paint). Warranted against orange peel; peeling or delaminating; cracking or checking; or loss of gloss due to cracking, checking or hazing.

Paint, Chassis (Chassis Paint)

Coverage includes all factory painted surfaces on frame rails, crossmembers/gussets, front and rear bumpers, suspension components, power train components, drivelines, fuel tanks, air tanks, wheel end equipment, tool boxes, battery boxes, access steps, and attaching brackets and hardware. Warranted against peeling or non-adhesion. Excludes U-joints and any damages to the paint or painted surface such as chips and scratches.

Towing/Roadside Assistance

Coverage includes roadside assistance or towing (to the nearest authorized repair location) for a Daimler Trucks North America LLC warrantable repair in a vehicle-down situation that prevents the safe and lawful operation of the vehicle. If this coverage is provided, it will be specifically included in the coverage table as a separate category.

Transfer Case Assembly

Coverage includes housing and all internally lubricated parts.

Transmission

Coverage includes housing and all internally lubricated parts, electric/air shift/control units, valves, gaskets, and seals. Excludes broken synchronizer pins, PTOs, transfer case(s), airlines, gauge senders, yoke(s), clutch and clutch control components including clutch brake. Excludes Allison automatic transmissions and Twin Disc Automatic Transmissions.

Wheel End Equipment

Coverage includes brake components, wheels, hubs, drums, rotors, wheel seals/bearings, slack adjusters, and attaching hardware.

Braun Northwest, Inc.
DETAILED SPECIFICATIONS
FOR
CITY OF BEVERLY HILLS
BID # 11-28
TRUCK, TACTICAL, POLICE SWAT
BEVERLY HILLS, CALIFORNIA

1 CHASSIS

1.01 OEM CHASSIS

- 2012 Freightliner M2-106 Conventional, meeting specifications of Section 1.01.
 - Rescue & Emergency Service
 - Provided by Braun Northwest, Inc.

1.01.01 SPECIFIC RATINGS

- Drive – 4 x 2
- G.V.W.R Capacity – 26,000 lbs
- Front GAWR – 10,000 lbs
- Rear GAWR – 17,500 lbs
- Wheelbase – 222"
- Cab to Axle – 156"

1.01.02 POWER TRAIN

- Engine
 - Cummins ISB 6.7-325, 325 HP @ 2300 RPM, 2600 Gov. 750 LB/FT @ 1800 RPM
 - Engine shall comply with current EPA, California ARB, and South Coast AQMD exhaust emissions applicable to the vehicle
 - Engine after-treatment device, Automatic over the road regeneration and dash mounted regeneration request switch
 - Horton HT650 frontal air on/off engine fan clutch
 - Six (6) gallon Diesel Exhaust Fluid Tank
- Transmission
 - Allison 3000 EVS automatic, 5-speed, with PTO provision
 - Electronic shift control, Dash mounted push button
 - Water to Oil Transmission Cooler
- Engine Cooling System
 - 950 Sq. In. Radiator
 - Ethylene Glycol Pre-charged SCA heavy duty coolant
- Exhaust
 - Horizontal tailpipe, exit forward of rear tires, LH
 - Single horizontal muffler

1.01.03

STEERING

- Power – TRW THP-60
- Steering Wheel – 18”
- Steering Column – Adjustable Tilt and Telescoping

1.01.04

AXLES AND SUSPENSION

- Front Axle – 10,000 lbs Capacity
- Front Suspension – Taperleaf 10,000 lbs
- Rear Axle – 17,500 Capacity
- Rear Suspension – 18,000 lb, 52 inch variable rate multi-leaf
- Rear Axle Ratio – 4.88
- Front and Rear Shock Absorbers

1.01.05

BRAKING SYSTEM

- Air Brake Package with BW AD-IS brake line Air Dryer with Heater
- Anti Lock – Wabco 4S/4M without traction control
- Air compressor – 18.7 CFM
- Parking Brake System with Dash mounted control

1.01.06X

TIRES AND WHEELS

- Front Tire – Two (2) 255/70R22.5, 16 Ply Radial
- Rear Tire – Four (4) 255/70R22.5, 16 ply Radial
- Front Wheels – 22.5” Accuride Polished Aluminum Outside Only, 10 stud
- Rear Wheels – 22.5” Outer Rims, Accuride polished aluminum Outside Only; 22.5” Inner Rims, painted steel, 10 stud

1.01.07

ELECTRICAL

- Alternator – 275 amp 40-SI Quadramount pad with remote battery voltage sense
- Batteries – Two (2) Alliance 1131 Group 31 MF 1850 CCA
- Delco 12V 29MT starter

1.01.08

INSTRUMENT PANEL AND CONTROLS

- Gauges
 - Fuel Level
 - Oil Pressure
 - Transmission Oil Temperature
 - Engine Coolant Temperature
 - Hour Meter and Trip Meter
 - Speedometer – Electronic w/ mph, kph scale
 - Tachometer – 3000 RPM
 - Digital Voltage
 - Air Restriction – Indicator with warning light
 - Inside/Outside Digital Temperature Gauge

- Warning system – Lights and Buzzer
 - Low Fuel
 - Low air pressure
 - Park Brake
 - Low Oil pressure
 - High Engine Coolant Temperature
- Control – Cruise, switches in LH switch panel
- Back Up Alarm
- Audio – AM/FM/CD, Two (2) speakers
- Programmable RPM control (to sense low voltage states >14.2 amps and to increase engine idle) – Electronic engine

1.01.09X

CAB EXTERIOR

- Hood – Fiberglass
- Grille – Chromed Plastic
- Cab – 106” BBC Flat Roof aluminum conventional
- Bumper – Three-Piece 14” Chromed with collapsible ends
- Frame – Steel, 9/32” x 3-7/16” x 10-1/16”
- Tow Hooks – Front
- Mirrors – Door Mounted Dual Bright West Coast, 102” equipment width
 - 8” convex , bright finish, mounted under primary mirrors
 - Passenger side convex mounted above window
 - Remote/Heated
- Windshield wipers – two-speed, with intermittent
- Windows – Tinted safety glass
- Lighting
 - Headlights
 - Clearance/Marker Lights – Five (5) Amber LED
 - Daytime running lights
- Horns – Dual electric
- Fuel Tank – 50 Gallon, LH, Alliance Fuel Filter/Water Separator with Primer Pump
- Keys – All keyed alike
- Grab Handles – right and left sides
- Rubber Cab Mounts
- Composite Exterior Sun Visor

1.01.10X

CAB INTERIOR

- Interior – Opal Gray
- Silencer Package for Cab
- Sun visors – Driver and Passenger
- Flooring – Black Vinyl with insulation
- Seats
 - Bostrom Talladega 910 High-back Air Suspension Driver’s and Passenger’s Seat
 - Black Cordura Plus Cloth Seat Covers
 - Dual Seat Armrests
 - Three-point fixed D-ring retractor seatbelts

- Climate Control
 - Heater/ Defroster/AC with a fresh air filter
 - Main HVAC controls with recirculation switch
 - One (1) Denso heavy duty and one (1) Sanden compact refrigerant compressors
- Dome light – activated by RH/LH doors, map lights, reading lights, forward mounted
- Electric Door Locks and Windows
- Electrical – Solid state circuit protections and fuses
- Roof mounted console with upper storage compartments
- Cup holders in dash
- 12V Power Supply

1.01.11

COATINGS/PAINT

- Exterior – Black
- Interior – Gray / Black

1.02 CHASSIS MODIFICATIONS

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

1.02.03X ALUMINUM WHEEL DRESS UP KITS

Install stainless steel hub and lug nut covers on all four (4) outside aluminum wheels. Engraved label above all four (4) wheel wells "Max. Tire Pressure 95 PSP".

1.02.05X RUNNING BOARDS

Repaint the OEM steps, install diamond plate trim, and paint the OEM fuel tank straps black. Polish the aluminum fuel tank.

1.02.09X RUBBER MUD FLAPS

Mud flaps shall be installed behind the rear wheels. When module is in the "low" position, flap should just barely make contact with ground.

1.02.12X MAP BOX AND MAP BOOK HOLDER

A "custom designed", black powder coated, two (2) piece map box/map book holder shall be provided. One (1) portion installed in the cab between the seats the other portion vertically on the cab wall behind the map box.

1.02.33X TRAILER HITCH/PLUG

A Class IV trailer hitch shall be mounted below the rear bumper, with a 10,000 lbs. total rating and 1,000 lbs. tongue weight capacity, receiver opening to be 2" square. A seven-pin "female" trailer connection shall be provided.

1.03 MODULE-TO-CHASSIS MOUNTING SYSTEM

1.03.01 MODULE MOUNTING SYSTEM

The module shall be bolted to the chassis frame in ten (10) locations. Each mounting location shall include a hard rubber isolation pad between the Chassis frame and the module lateral frame. A 3/4" Grade 5 bolt shall extend through the module lateral frame member and bolt to the web of the chassis frame with a 5/8" Grade 5 bolt. All bolts shall be secured with locking nuts.

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 |

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

2.02X

MODULE DIMENSIONS

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

Drop Skirt 4"

| | | | |
|---------|-----|--------|-----------|
| Length: | 29' | 9" | (357") |
| Width: | 8' | 4" | (100") |
| Height: | 9' | 10.25" | (118.25") |

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

| | | | |
|---------|-----|--------|------------|
| Length: | 19' | 6" | (234") |
| Width: | 8' | 4" | (100") |
| Height: | 8' | 2.375" | (98.375") |

Interior Dimensions: (Specifications are listed as minimums.)

| | | |
|--------------|---------------------------------|-------|
| Length: | Forward Wall to Rear Doors | 226" |
| Width: | Left Wall to Right Wall | 96" |
| Floor Width: | Left Cabinets to Right Cabinets | 40.5" |
| Height: | Floor to Ceiling | 78" |

2.03**STRUCTURAL FRAMING**

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

2.04**FOUNDATION SYSTEM**

Shall consist of a 0.125" aluminum sheet subfloor with foundation members securely welded under the subfloor. Members shall consist of six (6) 3" x 3" x 0.375" structural angles and one (1) 1.5" x 3" x 0.250" channel (above fuel tank) running full width side to side with two (2) 0.250" x 1.5" aluminum members running lengthwise between the structural angles.

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 very high bond system shall be utilized full length on all wall and roof frame members. A polyurethane adhesive sealant shall be applied to the edges of structural tubing at the exterior wall surfaces.

2.07A**MODULE ROOF**

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

2.08X**MODULE EXTERIOR COMPARTMENTS**

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

COMPARTMENT #1

Interior Dimensions – 40"W x 34.625"H x 25"D

Doorway Dimensions – 40"W x 34.625"H

Location – Streetside, forward

Shelving – Two (2) roll out trays; one (1) adjustable, one (1) fixed

Door(s) – Double

Light(s) – One (1) LED strip light

Additional Instructions – Trays shall operate on 24" locking slides and have a 300 lb. capacity.

COMPARTMENT #2

Interior Dimensions – 102"W x 13.625"H x 25"D

Doorway Dimensions – 102"W x 13.625"H

Location – Streetside, forward of wheel well

Shelving – Two (2) fixed roll out trays

Door(s) – Single, hinged down

Light(s) – One (1) LED strip light

Additional Instructions – The roll out tray shall operate on 24" locking slides and have a 300 lb. capacity. Two (2) 120VAC outlets; one (1) forward rear wall and one (1) aft rear wall shall be installed. A female air chuck tapped into chassis are systems shall be located in this area.

COMPARTMENT #3

Interior Dimensions – 40"W x 50"H x 25"D

Doorway Dimensions – 40"W x 50"H

Location – Streetside, rear

Shelving – Two (2) adjustable

Door(s) – Double

Light(s) – One (1) LED strip light

Additional Instructions – An Onan 6.0kw diesel generator shall be installed in this compartment, plumbed to take fuel directly from the vehicle tank but not draw the fuel tank below 1/4 full. Generator muffler shall extend to streetside rear corner. Louvers shall be stamped into the door for ventilation. Generator shall be installed on a slide out tray.

COMPARTMENT #4 – Drawer

Interior Dimensions – 49.875"W x 13.625"H x 25"D

Location – Curbside, rear

Light(s) – One (1) LED strip light

Additional Instructions – This compartment shall be a roll out drawer capable of holding tear gas canisters. The drawer shall have 300 lb. capacity slides, and a stainless steel paddle latch with rotary catch.

COMPARTMENT #5

Interior Dimensions – 54.5"W x 52.5"H x 25"D (lower) 8.25"D (upper)

Doorway Dimensions – 54.5"W x 52.5"H

Location – Curbside, forward

Shelving – One (1) fixed roll out tray

Door(s) – Double

Light(s) – One (1) LED strip light

Additional Instructions – The roll out tray shall operate on 24" locking slides, have a 300 lb. capacity. A 42"W x 27"H plasma TV, printer, and laptop docking station shall be installed in this compartment. Two (2) 120VAC outlets shall be installed in the side walls, one (1) on each side. The door skins shall be painted white steel to allow use as magnetic dry marker surfaces. One (1) *Customer Supplied* radio shall be installed in this compartment on the side walls.

Two (2) Radio speakers installed flush mounted in ceiling of "Media Center", wired to allow broadcast from Radio or Laptop TV Connection thru speaker.

Doors shall be held in the open position by Cast Products "grabber" type hold-open devices.

COMPARTMENT #6

Interior Dimensions – 75"W x 13.625"H x 25"D

Doorway Dimensions – 75"W x 13.625"H

Location – Curbside, lower forward

Shelving – One (1) fixed roll out tray

Door(s) – Single, hinged down

Light(s) – One (1) LED strip light

Additional Instructions – The roll out tray shall operate on 24" locking slides, have a 300 lb. capacity.

Two (2) 120VAC outlets; one (1) forward rear wall and one (1) aft rear wall shall be installed.

2.09X

MODULE DOORS

The doors shall be pan formed and bonded to extruded aluminum frames.

2.09.01X

DOOR SEAL

Each doorframe shall have an air cell hollow core, 360-degree compression door seal located outboard of the door switches and latch hardware. This seal creates watertight, dust-free compartment integrity and protects latches and switches from exposure to dirt, moisture, and road salts.

2.09.02X

DOOR HINGES

Shall be full length, piano type, stainless steel hinges, 1.75" wide with a 0.25" pin. The hinges shall be attached with 12 x 3/4 stainless steel truss head screws spread 4" apart. All curbside and streetside doors shall be hinged on the forward sides. All rear doors shall be hinged on the outboard sides.

2.09.03**DOOR LATCHES**

Shall be flush mounted, stainless steel, Versch paddle type slam latches with rotary latch striker posts, which meet FMVSS 206 requirements. Striker shall be adjustable and shall be secured with a nut from behind door frame. The striker washer will not be removed. Cold rolled, threaded 0.162" steel rods shall be used to activate dual rotary latches. Once final adjustments to latches are made, threads are to have Locktite or equivalent applied. All double door compartments shall have an exterior stainless steel paddle handle and rotary latches on each door. Doors will latch to door frame mounted striker posts only and not to one another. All entrance doors shall have interior handles with dual point, rod actuated, rotary latch systems which are lockable inside and out. All latches will have a non-slip surface on the underside of the latch. All compartment and module access doors shall be keyed for #J236 keys.

Deadbolts shall be provided for all passage doors and Compartments #4 and #5.

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. Compartment #5 shall have Cast Products "grabber" type hold-open devices with replaceable rubber catches. Compartments #2, #3, and #6 shall have rubber bumpers installed.

2.09.05**CURBSIDE DOOR CONTROL**

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

2.09.06**REAR DOOR CONTROL**

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

2.09.07X**COMPARTMENT DOORSKINS**

Shall be flat, mill finish aluminum plate and be removable to service door hardware. The doorskin for Compartment #5 shall be painted white aluminum. Red/white 1.5" conspicuity tape shall be shipped loose for each door.

2.09.08X**ENTRANCE DOORSKINS**

Shall be white painted aluminum with 20" stainless steel kick panels on the side passage door and on the rear doors. Each door skin shall be two (2) pieces, split below the paddle latch. Red/white 1.5" conspicuity tape shall be shipped loose for the rear doors.

2.09.09**ENTRANCE DOORWAYS**

One (1) curbside and two (2) rear module entrance doors shall be provided. The curbside doorway dimensions shall be 31"W x 80.75"H. The rear doorway dimensions shall be 36"W x 72"H. (Section 2.09.03 Related)

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.

2.10X

MODULE INTERIOR CABINETS

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

CABINET # 1 – Electrical Cabinet

Dimensions – 39"W x 16.5"H x 25"D

Location – Streetside, forward

Shelving – None

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

Additional Instructions – This cabinet shall house the electrical compartment module.

CABINET #2

Dimensions – 40.75"W x 57"H x 25.75"D

Location – Streetside

Shelving – Five (5) roll out trays; one (1) fixed, four (4) adjustable

Door(s) – ROM roll up with J236 lock

Additional Instructions – Each tray shall have a yoke arrangement capable of hold five (5) weapons. Trays shall operate on 20" locking slides and have a 300 lb. capacity.

CABINET #3

Dimensions – 44.5"W x 63.5"H x 25.75"D

Location – Streetside, center

Shelving – Four (4) on each side of center divider

Door(s) – Webbed net with quick release buckles

Additional Instructions – A center divider with four (4) adjustable shelves on each side shall be installed to make ten (10) equal sized cabinets in this area for storage of cases.

CABINET #4

Dimensions – 44.5"W x 63.5"H x 25.75"D

Location – Streetside, center

Shelving – Four (4) on each side of center divider

Door(s) – Webbed net with quick release buckles

Additional Instructions – A center divider with four (4) adjustable shelves on each side shall be installed to make ten (10) equal sized cabinets in this area for storage of cases.

CABINET #5

Dimensions – 32.75"W x 33.5"H x 25.75"D

Location – Streetside, rear

Shelving – Two (2) adjustable shelves and one (1) fixed roll out tray

Door(s) – ROM roll up with J236 lock

Additional Instructions – Tray shall operate on 20" locking slides and have a 300 lb. capacity. The 120VAC Power Box shall be installed in the aft wall (Section 6.21 related), recessed so as not to protrude into the cabinet. One (1) four-plex outlet shall be installed centered vertically on the rear wall of the cabinet. The transfer switch shall be installed on the side wall.

CABINET #6 – Drawer

Dimensions – 37.5"W x 18.5"H x 27"D

Location – Streetside, forward

Shelving – None

Additional Instructions – This area shall have one (1) 37.5"W x 18.5"H x 27"D drawer. Drawer shall operate on 18" slides rated at 300 lbs. per set and have a gas shock hold open/closed device to ensure drawer does not accidentally open or close during operation of the vehicle. Drawer shall be formed of aluminum welded construction with an automotive enamel finish and formed structural support on the sides and front of drawer. Drawer shall have a J236 lock.

CABINET #7 – Drawers

Dimensions – 37"W x 9"H x 25"D forward drawer, 19"D aft drawer

Location – Streetside, lower

Shelving – None

Additional Instructions – This area shall have two (2) 39"W x 9"H heavy duty drawers with a minimum interior height of 9" to allow storage of ammo cans. Each drawer shall operate on 18" slides rated at 300 lbs. per set and have a gas shock hold open/closed device to ensure drawers do not accidentally open or close during operation of the vehicle. Drawers shall be formed of aluminum welded construction with an automotive enamel finish, and formed structural support on the sides and front of drawers. Drawers shall have J236 locks.

Drawers shall be designed for storage of explosives with drawers split into two sections per drawer. (Explosive Mag)

CABINET #8

Dimensions – 40.75"W x 54"H x 25.75"D

Location – Curbside, rear

Shelving – None

Door(s) – ROM roll up with J236 lock

Additional Instructions – An adjustable vertical divider shall be installed on full width unistrut installed on the back wall. Unistrut shall be installed on the forward side wall of the cabinet and the side of the vertical divider to allow future installation of an adjustable shelf. Two (2) restraining straps shall be installed in the aft portion to hold shields. Cabinet and divider shall be painted with gray textured polyurethane. (Section 3.07 related)

CABINET #9

Dimensions – 41.625"W x 41"H x 25.75"D

Location – Curbside, rear

Shelving – Two (2) adjustable roll out trays

Door(s) – ROM roll up with J236 lock

Additional Instructions – Trays shall operate on 20" locking slides and have a 300 lb. capacity.

CABINET #10

Dimensions – 52.75"W x 54"H x 18.75"D

Location – Curbside, center

Shelving – Eight (8) adjustable vertical dividers

Door – ROM roll up with J236 lock

Additional Instructions – Three horizontal strips of unistrut shall be installed on the back wall for installation of eight (8) adjustable vertical dividers for storage of sniper rifle cases. Straps shall be installed in upper and lower portions of cabinet to hold cases securely in place.

CABINET #11

Dimensions – 27.825"W x 44.75"H x 25.75"D

Location – Curbside, forward

Shelving – One (1) fixed roll out tray

Door(s) – ROM roll up with J236 lock

Additional Instructions – This cabinet shall have one (1) vertically sliding rollout tray capable of holding eight (8) weapons. Tray shall operate on 20" locking slides and have a 300 lb. capacity. The weapons shall be secured upright in the tray using stock mounts and "Quick Fist" upper supports. (Section 5.60X related)

CABINET #12 – Drawers

Dimensions – 30"W x 9.5"H x 25"D

Location – Curbside, forward

Shelving – None

Additional Instructions – This area shall have two (2) 30"W x 9.5"H x 25"D drawers with a minimum interior height of 9" to allow storage of ammo cans. Each drawer shall operate on 18" slides rated at 300 lbs. per set and have a gas shock hold open/closed device to ensure drawers do not accidentally open or close during operation of the vehicle. Drawers shall be formed of aluminum welded construction with an automotive enamel finish, and formed structural support on the sides and front of drawers. The lower drawer shall have machine stamped divider supports along the side for at least four (4) dividers per drawer with four (4) adjustable dividers provided with the drawer. Drawers shall have J236 locks.

CABINET #13 – Drawers

Dimensions – 43.75"W x 8.25"H x 25"D

Location – Curbside, center

Shelving – None

Additional Instructions – This area shall have two (2) 43.75"W x 8.25"H x 25"D drawers. Each drawer shall operate on 18" slides rated at 300 lbs. per set and have a gas shock hold open/closed device to ensure drawers do not accidentally open or close during operation of the vehicle. Drawers shall be formed of aluminum welded construction with an automotive enamel finish, and formed structural support on the sides and front of drawers. Drawers shall have J236 locks.

CABINET #14 – Drawer

Dimensions – 43.75"W x 11.75"H x 25"D

Location – Curbside, rear

Shelving – None

Additional Instructions – This area shall have a 43.75"W x 11.75"H x 25"D drawer. Drawer shall operate on 18" slides rated at 300 lbs. per set and have a gas shock hold open/closed device to ensure drawer does not accidentally open or close during operation of the vehicle. Drawer shall be formed of aluminum welded construction with an automotive enamel finish, and formed structural support on the sides and front of drawer. Drawer shall have machine stamped divider supports along the side for at least three (3) dividers with three (3) adjustable dividers provided. Drawer shall have a J236 lock.

2.11C

SIDE DOORSTEP

A recessed double step doorstep shall be provided which is 19" deep x 31" wide at the curbside passage door. There shall be a drain hole and an open grate step plate, which is removable for cleaning purposes. Polished aluminum diamond plate kick panel will be installed on the sides and face of doorstep.

2.14A

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.

3.04X COLOR SCHEME

Base color: Freightliner Black

3.04.01 CHASSIS COLOR SCHEME

OEM Freightliner Black

3.05X LETTERING/DECALS

An allowance of \$3,000.00 shall be provided for graphics and lettering. Graphics and Letterings to be determined at pre-construction meeting.

3.06C COMPARTMENT FINISH

All compartments shall be painted with gray textured polyurethane.

3.07X INTERIOR CABINETS FINISH

All interior cabinets shall be sanded, etched, washed, primed, and painted white with gray splatter. (SW G8-33631 alt 2) (#G8-51748). Cabinets #2 and #8 shall be painted with gray textured polyurethane.

3.09A MODULE FLOORING MATERIAL

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

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

- 3.10A** **COMPARTMENT LINING**
Compartment floors and shelves shall be lined with light gray Mate'flex material.
- 3.11** **CABINET LINING**
Interior cabinet shelves shall be lined with easy sweep mats which are removable for ease of cleaning.
- 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 entire chassis and module underbody (excluding drive shafts, wheels, exhaust system, and lubrication fittings, per manufacturer's specifications) shall be sprayed with undercoating for reduced corrosion and added sound deadening.
- 3.15A** **NON-SLIP ROOF**
The roof shall be finished as a white non-slip surface. A 2" lip out from the cutout shall not be finished as a non-slip surface.

4 **MODULE EXTERIOR**

4.01X STEP/BUMPER

Shall be a welded construction of 3" x 3" x 0.375" aluminum angle and 2" x 0.250" plate and shall be covered by 0.125" bright aluminum diamond plate. The center section, below the doors, shall have a grip strut open flow design to prevent accumulation of water and snow and provide a 10" step. The outermost 12" of each end shall be angled to prevent dragging of corners in high angle of approach/departure areas. Diamond plate shall be formed on front and rear edges for channel type strength and formed 0.090" aluminum close out shall be welded to the underside of the step/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.

A hinged step shall be installed to fold up and over the bumper when not in use. Bumper and hinged step to be black powder coated to match module.

4.02X RUB RAILS

Shall be black powder coated extruded aluminum of a double channel design and 0.125" wall thickness for maximum strength. Rub rails shall be 2.5" high x 0.75" wide and run along the lower edge of body, interrupted only by wheel well opening. A red/white conspicuity reflective tape shall be installed in the insert area of the rub rail. *Final size and installation to be determined at pre-construction meeting.*

4.03 FENDER RINGS

Shall be installed on the module. Fender rings shall be black rubber following the full contour of the wheel well opening.

4.04 DRIP RAIL

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

4.05X ROCK GUARDS

Made of aluminum diamond plate with a black powder coated finish shall cover front module corners 24" up from bottom of body, 2.5" down side of body, and meet the cab at the front of the body.

4.06X REAR STEP GUARD

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

4.07 FUEL FILLS

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

- 4.11X TELESCOPIC LIGHTS**
Shall be two (2) 350 watt, Kwik Raze Magnafire 3000 Model #KR-833 TM tripod truck mount lights installed on the rear of the module with a 4" standoff. Each light shall be controlled by a switch on the light head. A 120VAC weatherproof outlet shall be installed near each light.
- 4.17B STEP, ELECTRIC**
Shall be provided and mounted under the curbside door. It shall be a Kwikkee Model and be wired to open and close with the side door.
- 4.20X AWNING(S)**
Two (2) 18' Colorado Carefree One-Touch Apex electric awning shall be installed, one (1) on the streetside and one (1) on the curbside of the module. Control panels shall be installed just inside the curbside passage door of the module.
- 4.20X FOLD-DOWN STEPS**
Four (4) Cast Products folding step/handholds shall be mounted on the rear to the left of the entrance doorway of the module.
- 4.21X GRAB BARS (EXTERIOR)**
Two (2) 12" stainless steel grab handle shall be installed on the streetside roof to assist in access to the roof.
- 4.50X EXTERIOR BRACKETS**
Three (3) stainless steel mounting brackets shall be installed, one (1) on the curbside, two (2) on the streetside. Brackets shall provide mounting locations for white magnetic marker boards to be used on module exterior. (Section 5.23X related)
- 4.55X MISCELLANEOUS EXTERIOR EQUIPMENT**
One (1) ladder storage rack shall be mounted on the streetside portion of the roof. The rack shall be constructed with rails to guide the ladder, a stop at the forward portion of the mount and tie-downs to hold the ladder in place. A stainless steel plate shall be installed on the edge of the roof to protect the paint when ladder is being loaded or unloaded.

5 **MODULE INTERIOR**

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

5.01 UPPER WALL COVERING

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

5.02 HEADLINER

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

5.03 MODULE ACCESS OPENING BUMPERS

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

5.06A ACCESS DOOR GRAB RAILS

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

5.16 INSULATION

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

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

5.17X MODULE CLIMATE CONTROL SYSTEM

One (1) 120V AC Coleman Model #HP2 RV roof top Heat Pump unit with a total of 15,000 BTU heating/ 12,000 BTU cooling shall be installed. The unit shall have a fan and controls independent of the cab system. The unit shall be mounted on the roof and run off of 120 shoreline power and be wired to the generator.

5.21 NO SMOKING/FASTEN SEAT BELTS SIGNS

"No Smoking/Fasten Seat Belt" signs shall be installed - one (1) each for driver's area .

5.23X WHITE MARKER BOARD

Three (3) painted white magnetic dry marker boards shall be installed on the module interior. The boards shall be held in place with an offset flange and Velcro fasteners and be removable for use on the brackets mounted on the exterior of the module. (Section 4.50X related)

5.50X INTERIOR EQUIPMENT

A table storage area shall be below the painted white aluminum dry marker board at the front of the module. A restraining strap shall be provided and shipped loose for customer installation.

6**ELECTRICAL**

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

6.01**OVERLOAD PROTECTION DEVICES**

Body electrical wiring shall utilize overload protective devices of the automatic reset, circuit breaker type. In addition, two (2) single pole, 20-amp circuit breakers shall be provided for future use. The circuit breakers, relays, and other electrical items shall be located in the enclosed power component module.

6.06**WIRING ACCESS**

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

6.07**BACK-UP ALARM**

Shall be installed. The alarm shall have a sound output level of 97 dB and have a momentary disable switch in the driver's console

6.08**SERVICE LOOP**

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

6.09X**DRIVER'S CONSOLE**

Made of formed black powder coated aluminum, shall be installed. Console shall have a drop in cupholder, three (3) brushed aluminum dividers, and a customer specific panel.

The panel shall include the following:

Siren

Generator Remote Panel

Combined Door/Compartment Open Warning Light

Radio Head (*Customer Supplied*)

6.11X**MAP LIGHT**

A Sunnex Model #741-20 map light shall be mounted in the cab area.

6.12

DOOR AJAR WARNING LIGHT

A red flashing warning light on driver's console shall be provided to warn driver of open passenger access doors or open exterior compartment doors.

6.16X

MODULE INTERIOR LIGHTING

Shall be designed to keep vehicle height to a minimum without interfering with the structural integrity of the roof. There shall be eight (8) fluorescent lights recessed in the ceiling on the centerline. Four (4) lights shall have red lens covers. Two (2) On/Off switches (one for red lights, one for white lights) for the fluorescent lights shall be located near the curbside passage door and two (2) On/Off switches (one for red lights, one for white lights) shall be located near the rear doors. Lights shall *not* come on automatically with opened doors.

6.17X

BASIC EXTERIOR LIGHTING

Shall include headlights, parking lights, directional signal lights, tail and stop lights, license plate light, back-up lights, side marker lights, hazard and warning lights, and clearance lights as required by FMVSS 108. Rear stop, turn, side marker, back-up lights, and side clearance lights shall be "Truck-Lite" LED lights.

A disable switch for all exterior lighting shall be programmed into the siren.

6.18X

COMMUNICATIONS EQUIPMENT

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

- | | |
|---------|---|
| Item #1 | Description: Install one (1) " <i>Customer Supplied</i> " Motorola XLT 5000 radio |
| | Location: Main Radio in Compartment #5, other in driver's console |
| | Instructions: Radio wired to have radio traffic sent through PA system to siren speaker allowing radio to be heard outside the vehicle |
| Item #2 | Description: One (1) TV type coaxial cable |
| | Location: Compartment #5 to exterior plug in on curbside of module. <i>Final location to be determined at pre-construction meeting.</i> |
| | Instructions: Allows hookup to cable TV connection |
| Item #3 | Description: Radio Coaxial cable |
| | Location: Compartment #1 to Compartment #5 |
| | Instructions: Future Radio Connection |

6.50X

MISCELLANEOUS EQUIPMENT

One (1) 42" LCD/Plasma television with fixed and/or swivel mount. All respective cables, padding, and electronic connections to be included. TV to be mounted in exterior compartment #5. Brand, type, resolution, and bracket *to be determined at pre-construction meeting.*

6.19X ANTENNA MOUNTS AND CABLES

Two (2) NMO universal antenna mounts with KHFUD cables and Larsen HyPer master universal connectors and mini-UHF adapters shall be installed on the module. Antenna base access shall be through the dome light openings, and the cables shall terminate in Compartment #5.

6.21.01X 120VAC SHORELINE/GENERATOR LOAD CENTER

Utility power shall be furnished with 120VAC shorepower via one 20 amp Kussmaul receptacle located on the rear of the module and distributed through a recessed Load Center power box, flush mounted in Cabinet #5, so as to maximize compartment space. The Load Center shall be wired with an input cord for a generator hookup. All 120VAC outlets shall be GFI protected. A transfer switch shall be furnished and wired between generator and shoreline. This will provide power to selected 120VAC items from either electrical source.

The load center shall have breakers to isolate as follows:

- | | |
|-------------------------|----------------------------|
| 1. Battery Charger | 5. Exterior Receptacles/SS |
| 2. Interior Receptacles | 6. Exterior Receptacles/CS |
| 3. HVAC | 7. Blank |
| 4. Blank | 8. Blank |

Two (2) 120VAC duplex outlets shall be installed in Compartments #1 and #2, two (2) in Compartment #5, two (2) in Compartment #6, and one (1) 120VAC four-plex outlet in Cabinet #5.

Four (4) weatherproof 120VAC duplex grounded outlets shall be mounted, one (1) streetside above the wheelwell, one (1) curbside above the wheelwell, two (2) on the module rear at the pole lights.

All circuits will be identified at panel and at switches/lights/duplex plugs.

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 (2) braided ground straps from the module body to the chassis to reduce RF interference.

6.23A BATTERY CHARGER

An 80 amp minimum battery charger/conditioner shall be provided and wired to shoreline. 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

An LED strip light shall be installed in all outside compartments and shall be activated by a door switch.

6.27 EXTERIOR DOOR SWITCHES

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

6.30 **EMERGENCY WARNING SYSTEMS**

6.30.01X **FRONT LIGHTBAR**

Shall be a 100" Whelen #4500 Plus Lightbar.

Pattern from curbside to streetside as follows: Red lens Red Super LED flasher, Red lens Red Super LED flasher, Blue lens Blue Super LED flasher, Forward Facing Load Light, Steady LED Red, Forward Facing Load Light, Blue lens Blue Super LED flasher, Red lens Red Super LED flasher, Red lens Red Super LED flasher.

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

6.30.02X **REAR LIGHTBAR**

Shall be a 100" Whelen #4500 Plus Lightbar.

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

The bar shall include an LED brake/clearance light over the center lights. The LED clearance lights shall be an integral part of the light bar.

The rear doors shall activate the rear scenelights. The light bar shall be recess mounted with the horizontal plane of the roof, and protrude no more than 1/2" beyond the vertical plane of the rear and sides of the module.

6.30.03A **FLASHERS**

Four (4) Super LED flashers shall be mounted two (2) on each side of module in upper corners. Lights shall be two (2) Whelen #90RR5FRR Red lens Red Super LED flashers and two (2) Whelen #90BB5FBR Blue lens Blue Super LED flashers. Two (2) Amber LED flashers shall be mounted on the rear of the vehicle at mid height. Lights shall be Whelen #70A02FAR.

6.30.04X **SCENELIGHTS**

Four (4) parabolic scenelights shall be installed, two (2) on each side of the module. The scenelights shall be flush mounted and have internal optics to deflect the light down at 8-32 degree angles. The lights shall be Whelen Model #90E000ZR Opti-Scene lights. Switches for the scene lights shall be programmed into the siren. None of the scene lights shall be automatically activated, lights will be controlled by switches only.

6.30.06D **INTERSECTION LIGHTS**

Four (4) Intersection lights shall be installed, one (1) on each fender and one (1) above each wheel. These shall be Whelen #50R03ZRR Red lens Red Super LED lights with flange.

6.30.08B **GRILLE LIGHTS**

Shall be one (1) Whelen #50R03ZRR Red lens Red Super LED, and one (1) Whelen #50B03ZBR Blue lens Blue Super LED with flange.

6.30.09

SIREN

Shall be a Whelen 295HFS4 siren. Siren options to include radio, horn, manual, wail, yelp, and phaser. The switches shall control emergency light functions as follows:

#1 – Rear Amber Lights (rear lightbar and 700 series amber lights on rear)

#2 – All Lights

#3 – All Lights and Siren

#4 – Front Scenes (including lightbar)

#5 – Left Scenes

#6 – Right Scenes

#7 – Rear Scenes (including lightbar)

#8 – Spare

#9 – Spare

Final configuration to be determined at pre-construction meeting.

6.30.10A

SIREN SPEAKERS

Shall be Cast Products "Thru-the-Bumper" mount system #5403-1 with two (2) 100-watt speaker drivers.

6.38X

MODULE SPEAKERS

Two (2) speakers shall be installed in the module and connected for use with the cab radio, TV monitor sound from Compartment #5. The fader switch shall be installed in a location to be determined. *The final configuration shall be determined at the pre-construction meeting.*

6.44X

GENERATOR

A 6kw Onan diesel generator shall be provided and installed in Compartment #3 and wired to all 120VAC outlets. Generator shall be plumbed to draw from the vehicle fuel tank but not draw the fuel tank below 1/4 full. Two (2) remote start panels shall be provided: one (1) on the driver's console, and one (1) located on the curbside wall just inside the side passage door.

7 SUPPORTING DOCUMENTATION

7.01X OWNERS MANUAL (CD)

Two (2) shall be provided with vehicle and consists of the following items:

1. Extra set of keys.
2. Lifetime module warranty.
3. 7 Year/75,000 miles limited electrical warranty.
4. 2 Year/30,000 mile Conversion Warranty.
5. 5 Year Paint Warranty.
6. Module remount engineering check list.
7. Climate control information and warranty.
8. Main schematic.
9. Electrical equipment amperage ratings.
10. Wire coding list.
11. 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
12. Operations manuals
13. Schematics for individual options.
14. Warranty and parts list for light bar, etc.

7.02 CHASSIS MANUFACTURER'S MANUALS

One (1) set of Workshop Manuals shall be provided with the vehicle.

8 MISCELLANEOUS MEDICAL/RESCUE EQUIPMENT

8.01 LOOSE EQUIPMENT

The following equipment shall be shipped loose with the vehicle:

1. Touch Up Paint
2. Cord End for Shoreline (20 amp)
3. One (1) set of wheel chocks

8.02 CUSTOMER SUPPLIED EQUIPMENT

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

1. One (1) Motorola XLT 5000 dual head radio

* * *

Bakersfield, City of, Police Department

P.O. Box 59
1601 Truxtum Avenue
Bakersfield

CA 93301

Phone: 661-496-6740
Fax: 661-852-2153

Contact: Sgt. Scott Tunnicliffe

Total Purchases to Date: 1 *Most Recent (all types) - PO Date: 06/20/2008 Delivery Date: 10/13/09*
1133-5 2009 Int'l PO Date 06/20/2008 Delivery

Bellevue Police Department

2901-115th Ave NE
Bellevue

WA 98009-9012

Phone: 425-452-4880
Fax: 425-452-2875

Contact: Peter Bednar, Fleet Supervisor

Total Purchases to Date: 1 *Most Recent (all types) - PO Date: Delivery Date: 2/8/2005*
0646-5 2005 Brattain PO Date Delivery

California Department of Corrections

711-045 Center Rd. (CO RD A-27)
P.O. Box 790 (96127-0790)
Susanville

CA 96130

Phone: 530-257-2181x4554
Fax:

Contact: Byron Frazier

Total Purchases to Date: 3 *Most Recent (all types) - PO Date: 12/16/2008 Delivery Date: 5/4/09*
1141-5 2009 Int'l PO Date 07/30/2008 Delivery
1188-5 2009 Int'l PO Date 12/16/2008 Delivery
1189-5 2009 Int'l PO Date 12/16/2008 Delivery

California Dept of Forestry/County Fire

20 Tower Road
San Mateo

CA 94402

Phone:
Fax:
Contact:

Total Purchases to Date: 7 *Most Recent (all types) - PO Date: 09/22/2006 Delivery Date: 9/7/2007*
0890-5 2006 Int'l PO Date 09/22/2006 Delivery
0891-5 2006 Int'l PO Date 09/22/2006 Delivery
0892-5 2006 Int'l PO Date 09/22/2006 Delivery
0893-5 2006 Int'l PO Date 09/22/2006 Delivery
0894-5 2006 Int'l PO Date 09/22/2006 Delivery
0895-5 2006 Int'l PO Date 09/22/2006 Delivery
0896-5 2006 Int'l PO Date 09/22/2006 Delivery

California, State of Forestry & Fire Protection

5950 Chiles Road
Davis

CA 95618

Phone: 530-757-2407 x214

Fax: 530-757-6571

Contact: Mike Luce, Fleet Manager

Total Purchases to Date: 65

Most Recent (all types) - PO Date: 07/06/2010 Delivery Date: 9/5/2007

| | | | | | |
|--------|------|-------|---------|------------|----------|
| 0834-5 | 2006 | Int'l | PO Date | 07/17/2006 | Delivery |
| 0835-5 | 2006 | Int'l | PO Date | 07/17/2006 | Delivery |
| 0836-5 | 2006 | Int'l | PO Date | 07/17/2006 | Delivery |
| 0837-5 | 2006 | Int'l | PO Date | 07/17/2006 | Delivery |
| 0838-5 | 2006 | Int'l | PO Date | 07/17/2006 | Delivery |
| 0839-5 | 2006 | Int'l | PO Date | 07/17/2006 | Delivery |
| 0840-5 | 2006 | Int'l | PO Date | 07/17/2006 | Delivery |
| 0841-5 | 2006 | Int'l | PO Date | 07/17/2006 | Delivery |
| 0842-5 | 2006 | Int'l | PO Date | 07/17/2006 | Delivery |
| 0843-5 | 2006 | Int'l | PO Date | 07/17/2006 | Delivery |
| 0844-5 | 2006 | Int'l | PO Date | 07/17/2006 | Delivery |
| 0845-5 | 2006 | Int'l | PO Date | 07/17/2006 | Delivery |
| 0846-5 | 2006 | Int'l | PO Date | 07/17/2006 | Delivery |
| 0847-5 | 2006 | Int'l | PO Date | 07/17/2006 | Delivery |
| 0848-5 | 2006 | Int'l | PO Date | 07/17/2006 | Delivery |
| 0849-5 | 2006 | Int'l | PO Date | 07/17/2006 | Delivery |
| 0850-5 | 2006 | Int'l | PO Date | 07/17/2006 | Delivery |
| 0851-5 | 2006 | Int'l | PO Date | 07/17/2006 | Delivery |
| 0852-5 | 2006 | Int'l | PO Date | 07/17/2006 | Delivery |
| 0853-5 | 2006 | Int'l | PO Date | 07/17/2006 | Delivery |
| 0854-5 | 2006 | Int'l | PO Date | 07/17/2006 | Delivery |
| 0855-5 | 2006 | Int'l | PO Date | 07/17/2006 | Delivery |
| 0856-5 | 2006 | Int'l | PO Date | 07/17/2006 | Delivery |
| 0857-5 | 2006 | Int'l | PO Date | 07/17/2006 | Delivery |
| 1032-5 | 2008 | Int'l | PO Date | 12/12/2007 | Delivery |
| 1033-5 | 2008 | Int'l | PO Date | 12/12/2007 | Delivery |
| 1034-5 | 2008 | Int'l | PO Date | 12/12/2007 | Delivery |
| 1035-5 | 2008 | Int'l | PO Date | 12/12/2007 | Delivery |
| 1036-5 | 2008 | Int'l | PO Date | 12/12/2007 | Delivery |
| 1037-5 | 2008 | Int'l | PO Date | 12/12/2007 | Delivery |
| 1038-5 | 2008 | Int'l | PO Date | 12/12/2007 | Delivery |
| 1039-5 | 2008 | Int'l | PO Date | 12/12/2007 | Delivery |
| 1040-5 | 2008 | Int'l | PO Date | 12/12/2007 | Delivery |
| 1041-5 | 2008 | Int'l | PO Date | 12/12/2007 | Delivery |
| 1042-5 | 2008 | Int'l | PO Date | 12/12/2007 | Delivery |
| 1043-5 | 2008 | Int'l | PO Date | 12/12/2007 | Delivery |
| 1049-5 | 2008 | Int'l | PO Date | 01/02/2008 | Delivery |
| 1050-5 | 2008 | Int'l | PO Date | 01/02/2008 | Delivery |
| 1051-5 | 2008 | Int'l | PO Date | 01/02/2008 | Delivery |
| 1052-5 | 2008 | Int'l | PO Date | 01/02/2008 | Delivery |
| 1053-5 | 2008 | Int'l | PO Date | 01/02/2008 | Delivery |
| 1054-5 | 2008 | Int'l | PO Date | 01/02/2008 | Delivery |
| 1055-5 | 2008 | Int'l | PO Date | 01/02/2008 | Delivery |
| 1056-5 | 2008 | Int'l | PO Date | 01/02/2008 | Delivery |
| 1057-5 | 2008 | Int'l | PO Date | 01/02/2008 | Delivery |
| 1058-5 | 2008 | Int'l | PO Date | 01/02/2008 | Delivery |
| 1059-5 | 2008 | Int'l | PO Date | 01/02/2008 | Delivery |
| 1060-5 | 2008 | Int'l | PO Date | 01/02/2008 | Delivery |
| 1061-5 | 2008 | Int'l | PO Date | 01/02/2008 | Delivery |
| 1062-5 | 2008 | Int'l | PO Date | 01/02/2008 | Delivery |
| 1063-5 | 2008 | Int'l | PO Date | 01/02/2008 | Delivery |

California, State of Forestry & Fire Protection

5950 Chiles Road
Davis CA 95618

Phone: 530-757-2407 x214
Fax: 530-757-6571
Contact: Mike Luce, Fleet Manager

Total Purchases to Date: 65 *Most Recent (all types) - PO Date: 07/06/2010 Delivery Date: 9/5/2007*

| | | | | | |
|--------|------|-------|---------|------------|----------|
| 1165-5 | 2009 | Int'l | PO Date | 10/30/2008 | Delivery |
| 1166-5 | 2009 | Int'l | PO Date | 10/30/2008 | Delivery |
| 1167-5 | 2009 | Int'l | PO Date | 10/30/2008 | Delivery |
| 1168-5 | 2009 | Int'l | PO Date | 10/30/2008 | Delivery |
| 1169-5 | 2009 | Int'l | PO Date | 10/30/2008 | Delivery |
| 1170-5 | 2009 | Int'l | PO Date | 10/30/2008 | Delivery |
| 1171-5 | 2009 | Int'l | PO Date | 10/30/2008 | Delivery |
| 1172-5 | 2009 | Int'l | PO Date | 10/30/2008 | Delivery |
| 1173-5 | 2009 | Int'l | PO Date | 10/30/2008 | Delivery |
| 1174-5 | 2009 | Int'l | PO Date | 10/30/2008 | Delivery |
| 1354-5 | 2011 | Int'l | PO Date | 07/06/2010 | Delivery |
| 1355-5 | 2011 | Int'l | PO Date | 07/06/2010 | Delivery |
| 1356-6 | 2011 | Int'l | PO Date | 07/06/2010 | Delivery |
| 1357-5 | 2011 | Int'l | PO Date | 07/06/2010 | Delivery |

Honeywell FM&T, LLC/NNSA

P.O. Box 5250
Albuquerque NM 87185-5250

Phone: 505-844-9926
Fax: 505-844-5444
Contact: Veva Lucero, Buyer Representative

Total Purchases to Date: 4 *Most Recent (all types) - PO Date: 12/16/2010 Delivery Date: 9/28/10*

| | | | | | |
|--------|------|-------|---------|------------|----------|
| 1329-5 | 2010 | Int'l | PO Date | 04/13/2010 | Delivery |
| 1330-5 | 2010 | Int'l | PO Date | 04/13/2010 | Delivery |

LA County Sheriff's Department

1060 N. Eastern Avenue
1104 N. Eastern Avenue #50(purchasing)
Los Angeles CA 90063

Phone: 323-881-7500
Fax: 323-415-2953
Contact: Detective Marcus Friedemann

Total Purchases to Date: 8 *Most Recent (all types) - PO Date: 03/01/2007 Delivery Date: 9/28/2007*

| | | | | | |
|--------|------|-------|---------|------------|----------|
| 0921-5 | 2008 | Int'l | PO Date | 01/08/2007 | Delivery |
| 0922-5 | 2008 | Int'l | PO Date | 01/08/2007 | Delivery |
| 0923-5 | 2008 | Int'l | PO Date | 01/08/2007 | Delivery |

Lunceford & Associates

316 Wallace Ave
Cour d' Alene ID 83814

Phone:
Fax:
Contact:

Total Purchases to Date: 2 *Most Recent (all types) - PO Date: 03/09/1995 Delivery Date: 3/9/1995*

| | | | | | |
|--------|------|----------|---------|------------|----------|
| 0168-5 | 1995 | Brattain | PO Date | 03/09/1995 | Delivery |
| 0169-5 | 1995 | Brattain | PO Date | 03/09/1995 | Delivery |

Oregon State Police

3710 Portland Road NE
Salem OR 97303

Phone: 503-378-3387 ext 241
Fax: 503-373-0754
Contact: Steve Sigurdson

Total Purchases to Date: 2 *Most Recent (all types) - PO Date: 11/24/2010 Delivery Date: 10/5/2005*

| | | | | | |
|--------|------|---------|---------|--|----------|
| 0693-5 | 2006 | Unknown | PO Date | | Delivery |
|--------|------|---------|---------|--|----------|

San Bernardino, City of (Police Department)

300 N. "D" Street
710 No. D Street
San Bernardino

CA 92401

Phone: 909-384-5673 (Police)
Fax: 909-388-4913 (police)

Contact: Michael Eckley, Public Safety Systems Man**Total Purchases to Date: 1**

0988-5 2007 Int'l

Most Recent (all types) - PO Date: 08/10/2007 **Delivery Date:** 8/19/2008

PO Date 08/10/2007 Delivery

San Mateo County FPD

PO Box 425
1200 Pescadero Road
Pescadero

CA 94060

Phone: 415-879-0121
Fax: 415-345-9677

Contact: A.J. LaCramp**Total Purchases to Date: 4**

0368-5 2001

Brattain

Most Recent (all types) - PO Date: 06/13/2000 **Delivery Date:** 6/24/1994

PO Date 06/13/2000 Delivery

Santa Barbara County (Sheriff's Department)

4434 Calle Real
Santa Barbara

CA 93110

Phone: 805-689-5786**Fax:****Contact:** Sgt. Steve Johnson**Total Purchases to Date: 1**

0887-5 2007 Int'l

Most Recent (all types) - PO Date: 09/18/2006 **Delivery Date:** 9/5/2007

PO Date 09/18/2006 Delivery

Snohomish County FPD #28 (Index)

PO Box 64
512 Avenue A
Index

WA 98256

Phone: 360-793-0866
Fax: 360-793-2488

Contact: Malcolm Rose, Chief**Total Purchases to Date: 2**

0164-5 1995

Motor

Most Recent (all types) - PO Date: 06/03/1994 **Delivery Date:** 9/5/1995

PO Date 06/03/1994 Delivery

University of California, Davis

Central Garage
Davis

CA 95616

Phone:**Fax:****Contact:****Total Purchases to Date: 1**

0112-5 1992

Unknown

Most Recent (all types) - PO Date: 02/10/1992 **Delivery Date:** 8/25/1992

PO Date 02/10/1992 Delivery

Walnut Creek PD

PO Box 8039
511 Lawrence Way
Walnut Creek

CA 94596

Phone: 925-943-5822
Fax: 925-943-5811

Contact: Mike McLaughlin, Sergeant**Total Purchases to Date: 1**

0678-5 2006

Brattain

Most Recent (all types) - PO Date:**Delivery Date:** 6/27/2005

PO Date Delivery

Washington, State of

8543 Armstrong Rd SW
 P.O. Box 42625
 Tumwater

WA 98504-2625

Phone: 360-902-7284

Fax: 360-586-2426

Contact: Jena Richardson, Contract Specialist

Total Purchases to Date: 2

0789-5 2007 Int'l
 0926-5 2008 Int'l

Most Recent (all types) - PO Date: 01/31/2007 Delivery Date: 12/14/2006

PO Date 04/03/2006 Delivery

PO Date 01/31/2007 Delivery

Whatcom County

901 W. Smith Rd.
 Bellingham

WA 98226-9610

Phone: 360-676-6759

Fax: 360-676-6879

Contact: Eric Schlehuber, Fleet Manager

Total Purchases to Date: 1

1003-5 2008 Int'l

Most Recent (all types) - PO Date: 10/19/2007 Delivery Date: 9/30/2008

PO Date 10/19/2007 Delivery

Yakima, City of Police Department

200 South 3rd Street
 129 North Second Street
 Yakima

WA 98901

Phone:

Fax:

Contact: Susan Ownby, Purchasing Agent

Total Purchases to Date: 1

0870-5 2007 Int'l

Most Recent (all types) - PO Date: 08/09/2006 Delivery Date: 5/3/2007

PO Date 08/09/2006 Delivery

Butte County Sheriff

33 County Center Drive
Oroville

CA 95965

Phone: 530-538-7396

Fax: 530-538-7995

Contact: Lieutenant Bryan Flicker

Total Purchases to Date: 1

0918-5 2007

Unknown

Most Recent (all types) - PO Date: 01/02/2007 *Delivery Date:* 1/3/2008

PO Date 01/02/2007 Delivery

El Cajon, City of

200 East Main Street
1060 Vernon Wy (Fleet Maint)

El Cajon

CA 92020

Phone: 619-441-1715

Fax: 619-588-1190

Contact: Debbie Setzer, Acting Captain

Total Purchases to Date: 1

0547-5 2004

Unknown

Most Recent (all types) - PO Date:

Delivery Date: 9/9/2003

PO Date

Delivery

Fresno, City of

2200 Fresno Street
Fresno

CA 93721

Phone: 559-488-2505

Fax: 559-488-1069

Contact: Jason B. MacDonald, Purchasing Manager

Total Purchases to Date: 1

1235-5 2008

Supplied

Most Recent (all types) - PO Date: 04/13/2009 *Delivery Date:* 12/24/09

PO Date 04/13/2009 Delivery

King County DOT Fleet

Building G
155 Monroe Ave NE
Renton

WA 98056

Phone: 206-296-8164

Fax:

Contact: Steve Arnold

Total Purchases to Date: 2

0503-5 2003

Valley

Most Recent (all types) - PO Date: 09/01/2006 *Delivery Date:* 8/30/2007

PO Date

Delivery

LA County Sheriff's Department

1060 N. Eastern Avenue
1104 N. Eastern Avenue #50(purchasing)
Los Angeles

CA 90063

Phone: 323-881-7500

Fax: 323-415-2953

Contact: Detective Marcus Friedemann

Total Purchases to Date: 8

0832-5 2007

Unknown

Most Recent (all types) - PO Date: 03/01/2007 *Delivery Date:* 9/28/2007

PO Date 07/17/2006 Delivery

0833-5 2007

Unknown

PO Date 07/17/2006 Delivery

0934-5 2007

Unknown

PO Date 03/01/2007 Delivery

0935-5 2007

Unknown

PO Date 03/01/2007 Delivery

0936-5 2007

Unknown

PO Date 03/01/2007 Delivery

Mesa, City of

P.O. Box 1466
Mesa

AZ 85211-1466

Phone: 480-644-3694

Fax:

Contact: Lisa Pena

Total Purchases to Date: 1

1351-1 2011

Unknown

Most Recent (all types) - PO Date: 06/18/2010 *Delivery Date:* 12/6/10

PO Date 06/18/2010 Delivery

Milwaukee Co Sheriff

949 N 9 St.
Milwaukee WI 53233

Phone: 414-226-7059
Fax: 414-226-7099
Contact: David A. Clarke, Jr., Sheriff

Total Purchases to Date: 1 *Most Recent (all types) - PO Date:* *Delivery Date:* 2/1/2005
0647-5 2005 Valley PO Date Delivery

Multnomah Co

501 SE Hawthorne Blvd., Suite 400
1620 SE 190th Ave
Portland OR 97214

Phone: 503-988-5111
Fax: 503-988-3252
Contact: Herman Brame, Interim Manager

Total Purchases to Date: 3 *Most Recent (all types) - PO Date:* 07/09/2007 *Delivery Date:* 8/19/2005
0681-5 2005 Unknown PO Date Delivery
0682-5 2005 Unknown PO Date Delivery
0968-5 2008 Unknown PO Date 07/09/2007 Delivery

San Bernardino, Co of

655 East Third St
San Bernardino CA 92415

Phone: 909-890-4854
Fax: 909-890-4850
Contact: Detective Dan Glozer

Total Purchases to Date: 1 *Most Recent (all types) - PO Date:* *Delivery Date:* 1/13/2006
0695-5 2006 Unknown PO Date Delivery



Welcome to **The City of Beverly Hills**

HOME CITY SERVICES ATTRACTIONS DOING BUSINESS GOVERNMENT ABOUT BEVERLY HILLS I WANT TO... SEARCH Search... GO

Homepage Doing Business Vendor Information Bid Information

CIP Project Bidding

Current Formal Bids/RFPs

Current Project Administration

Capital Project Bids

Request for Proposal

Catering Opportunity - Letter of Interest

Bid Packet Request, Bid for 11-28 Truck, Tactical, Police SWAT

Name: John McCroskey
 Company Name: Braun Northwest, Inc.
 Address 1: P. O. Box 1204
 City: Chehalis
 State: WA
 Zip Code: 98532
 Telephone: 800-245-6303
 Fax Number: 360-748-0256
 E-Mail: sales@braunnorthwest.com

Thank you for taking the time to fill in the Bid Packet request form. The requested information will be sent out via email by the next business day.



Contact Us



Calendar



News Room



Jobs



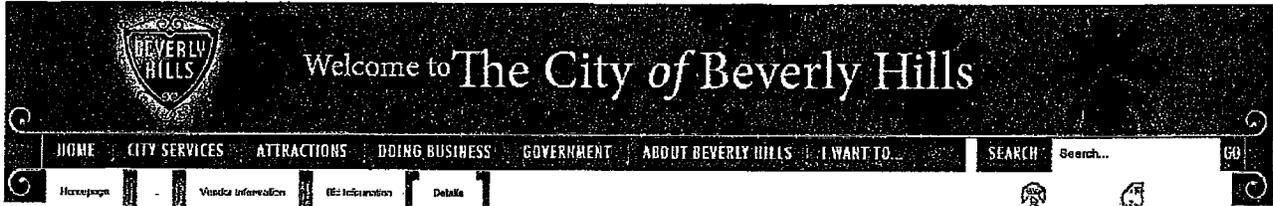
Video on Demand



City Maps



E-Bidding



- CIP Project Bidding
- Current Formal Bids/RFPs
- Current Project Administration
- Capital Project Bids
- Request for Proposal
- Catering Opportunity - Letter of Interest

Bid for 11-28 Truck, Tactical, Police SWAT

Contact: Sgt. David Perez, 310-285-2197

All bids must be submitted at the Office of the City Clerk, 456 N. Rexford Drive, Room 280, Beverly Hills, CA 90210, no later than 2pm, unless otherwise instructed. No bids will be accepted after the specified date and time.

Bid Opening Date: March 10, 2011 at 2:00 pm

INSTRUCTIONS FOR DOWNLOAD OF BID DOCUMENTS

Documents available for download associated with each bid are located on each Bid Page.

- Select the Bid In which you are interested.
- When you are taken to that Bid Page, locate available documents under the header "Support Docs".
- To download, click on the document listed e.g., "Main Document", and the document will open.
- Save to your location.

Support Docs

[Main Document](#)

Bid Packet Request Form

Name: Primary contact for all correspondence

John McCroskey

Company Name:

Braun Northwest, Inc.

Address 1:

P. O. Box 1204

Address 2: (Optional)

City:

Chehalis

State:

WA

Zip Code:

98532

Telephone: Please include your area code.

800-245-6303

Fax Number: Please include your area code.

360-748-0256

E-Mail: Please enter your email address so we can confirm the message.

sales@braunnorthwest.com

SUBMIT RESET



Contact Us



Calendar



News Room



Jobs



Video on Demand



City Maps



E-Noticing



BID PACKAGE

CITY OF BEVERLY HILLS
OFFICE OF THE CITY CLERK
455 NORTH REXFORD DRIVE
BEVERLY HILLS, CALIFORNIA
90210 (310) 285-2440

LEGAL NOTICE - BIDS WANTED

Sealed proposals are requested on the list of materials, supplies, equipment or services set forth herein, subject to all conditions outlined in the Proposal Document, including:

- SECTION I:** REQUEST FOR BIDS
- SECTION II:** GENERAL INFORMATION AND INSTRUCTION
- SECTION III:** DETAIL SPECIFICATIONS
- SECTION IV:** BID FORM

(IF YOU CHOOSE NOT TO SUBMIT A BID, PLEASE COMPLETE PAGE 43)

Sealed proposals will be received only at the Office of the City Clerk, 455 North Rexford Drive, Beverly Hills, until 2:00 p.m. local time, on the dates hereinafter stated at which time they will be opened and publicly read for furnishing the materials, supplies, equipment or services or for supplying the materials, and/or providing labor for the repair, construction or improvement as the case may be, as indicated by the items hereunder listed and in accordance with the applicable specifications.

SECTION I – REQUEST FOR BIDS

Date of Request: **February 10, 2011**

Bid Number: **11 - 28**

Item Description: **TRUCK, TACTICAL, POLICE SWAT**

Bid Opening: **March 10 @ 2:00 PM**

All bids must be delivered by the specified opening time of the bid. Bids arriving after the specified hour will not be accepted. Mailed bids, which are delivered after the specified hour will not be considered regardless of postmarked time on the envelope. All bids must be in writing and must contain an original signature by an authorized officer of the firm - Electronic bids (telephone, FAX, etc.) are **NOT** acceptable.

BID DEPOSIT - NONE REQUIRED WITH THIS BID
PERFORMANCE BOND AND PAYMENT BOND - NONE REQUIRED WITH THIS BID.
THE CITY RETAINS THE RIGHT TO REJECT ANY AND ALL BIDS WITHOUT CAUSE
AND/OR ELECT NOT TO AWARD A BID.

**CITY OF BEVERLY HILLS
SECTION II - GENERAL INFORMATION AND INSTRUCTION**

1. Bid deposits of unsuccessful bidders will be returned after the bid has been awarded. A successful bidder's bid deposit will be returned after he has entered into a written contract, or after a performance bond, if required, has been executed and accepted by the City.
2. The vendor's proposal may be withdrawn at any time prior to the bid opening. No proposal may be withdrawn after the bid opening. Violation of this policy may cause forfeiture of the bid deposit and removal from qualified Bidder's List.
3. Bidders are advised to become familiar with all conditions, instructions and specifications governing this bid. Once the award has been made, a failure to have read all the conditions, instructions and specifications of this contract shall not be cause to alter the original contract or for vendor to request additional compensation.
4. Bidders agree to defend and save the City from and against all demands, claims, suits, costs, expenses, damages and adjustments based on any infringement of any patent relating to goods specified in this contract.
5. Successful bidder shall not assign the contract, or subcontract the whole or any part of the contract without written consent of the City. Such consent shall neither relieve the bidder from his obligation nor change the terms of the contract.
6. The City shall have the right to inspect any material specified herein. Equipment, supplies or services that fail to comply with the specifications herein regarding design, material or workmanship are subject to rejection at the option of the City. Any materials rejected shall be removed from the premises of the City at the expense of the vendor.
7. Bidder shall state the nature and period of any warranty or guarantee. Manufacturer's specifications shall be submitted with the bid and shall be considered a part of this contract where such specifications meet the minimum of the City specifications.
8. Each bidder shall submit in full this completed original BID DOCUMENT and all necessary catalogues, descriptive literature, etc., needed to fully describe the materials or work he proposes to furnish.
9. Bidders shall state the delivery date for commodities in terms of calendar days after notification of award. Where the contract calls for performance of labor, the bidder shall also state the number of calendar days required for completion after notification of award.
10. Cash discounts shall be considered in the evaluation of the bids, except that payment periods of less than thirty (30) days will not be considered in award of this bid. Where cash discounts are offered, the discount date shall begin with the invoice date or delivery date to the City, whichever is later.

11. Upon the award of the bid to the successful bidder, if insurance is required by the terms of this bid, the City will require evidence of such coverage be furnished within fourteen (14) days of notification of bid award. The amounts and types of coverage will be specified in Section IV of this bid. All insurance forms must be in a format acceptable to the City.
12. The Contractor agrees to indemnify, defend and hold harmless the City, City Council and each member thereof, and every officer, and employee of the City, from any liability or financial loss including, without limitation, attorneys fees and costs, arising in any manner whatsoever from any intentional, reckless, negligent, or otherwise wrongful acts, errors or omissions of Contractor, or any person employed by Contractor, including agents and independent contractors, in the performance of this agreement.
13. Every supplier of materials and services and all contractors doing business with the City shall be an "Equal Opportunity Employer" as defined by Section 2000 (E) of Chapter 21, Title 42 of the United States Code Annotated and Federal Executive Orders #11375, and as such shall not discriminate against any other person by reason of race, creed, color, religion, age, sex or physical or mental handicaps with respect to the hiring, application for employment, tenure, terms or conditions or employment of any person.
14. Prices quoted herein must be firm for a period of not less than ninety (90) days after date of bid opening.
15. Bids calling for other than a "lump sum" total bid may be awarded by single item, by groups of items, or as a whole, as the City deems to be in the best interest of the City.
16. The City will be the sole and exclusive judge of quality, compliance with bid specifications or any other matter pertaining to this bid. The City reserves the exclusive right to award this bid in any manner it deems to be in the best interest of the City.
17. Quantities specified in Section III are approximate only, the City reserves the right, within the period for delivery to increase or decrease the quantity ordered and upon mutual agreement after the period specified for delivery, order additional quantities of items bid.
18. "Contractor shall cooperate with the City in all matters relating to taxation and the collection of taxes. It is the policy of the City to self-accrue use tax associated with its own purchases. The City requests that its contractors self-accrue their use tax, **when applicable**, and report the use tax to the State Board of Equalization with a City-assigned permit number. The City's own use tax which is self-accrued by the City will be remitted to the State of California pursuant to the City's permit with the State Board of Equalization."
19. For any questions regarding this bid, please contact Sergeant David Perez (310) 285-2197

SECTION III – DETAILED SPECIFICATIONS

SUBSECTION A - TECHNICAL NOTES

IN EVENT OF CONFLICT, THE FOLLOWING SPECIFICATIONS SHALL PREVAIL OVER GENERAL INSTRUCTIONS CONTAINED ELSEWHERE IN THIS BID.

IMPORTANT NOTICE - THIS SECTION III, SUBSECTION A, COMPLETED WITH REQUIRED INFORMATION AND/OR BIDDER'S EXCEPTIONS MUST BE ATTACHED TO AND RETURNED WITH SECTION IV - BID FORM.

BIDDER MUST EXPLAIN IN DETAIL ALL ITEMS OFFERED WHICH DO NOT CONFORM TO SPECIFICATIONS CONTAINED HEREIN. IF NO EXCEPTIONS ARE LISTED, IT WILL BE ASSUMED BIDDER IS BIDDING "AS SPECIFIED."

Specifications for a new Police SWAT Tactical Vehicle

BIDDERS EXCEPTIONS

DETAILED SPECIFICATIONS

1 CHASSIS

1.01 OEM CHASSIS

- 2012 Freightliner M2-106 Conventional, meeting specifications of Section 1.01.
- Rescue & Emergency Service
- Provided by Manufacturer

COMPLY

1.01.01 SPECIFIC RATINGS

- Drive – 4 x 2
- G.V.W.R Capacity – 26,000 lbs
- Front GAWR – 10,000 lbs
- Rear GAWR – 17,500 lbs
- Wheelbase – 222"
- Cab to Axle – 156"

COMPLY

1.01.02 POWER TRAIN

- Engine
 - Cummins ISB 6.7-325, 325 HP @ 2300 RPM, 2600 Gov. 750 LB/FT @ 1800 RPM
 - Engine shall comply with current EPA, California ARB, and South Coast AQMD exhaust emissions applicable to the vehicle specified and its application.

COMPLY

- Engine after-treatment device, Automatic over the road regeneration and dash mounted regeneration request switch
- Horton HT650 frontal air on/off engine fan clutch
- Six (6) gallon Diesel Exhaust Fluid Tank
- Transmission
 - Allison 3000 EVS automatic, 5-speed,
 - Electronic shift control, Dash mounted push button
 - Water to Oil Transmission Cooler
- Engine Cooling System
 - 950 Sq. In. Radiator
 - Ethylene Glycol Pre-charged SCA heavy duty coolant
- Exhaust
 - Horizontal tailpipe, exit forward of rear tires, LH
 - Single horizontal muffler

COMPLY**1.01.03****STEERING**

- Power – TRW THP-60
- Steering Wheel – 18"
- Steering Column – Adjustable Tilt and Telescoping

COMPLY**1.01.04****AXLES AND SUSPENSION**

- Front Axle – 10,000 lbs Capacity
- Front Suspension – Taperleaf 10,000 lbs
- Rear Axle – 17,500 Capacity
- Rear Suspension – 18,000 lb, 52 inch variable rate multi-leaf
- Rear Axle Ratio – 4.88
- Front and Rear Shock Absorbers

COMPLY**1.01.05****BRAKING SYSTEM**

- Air Brake Package with BW AD-IS brake line Air Dryer with Heater
- Anti Lock – Wabco 4S/4M without traction control

COMPLY

- Air compressor – 18.7 CFM
- Parking Brake System with Dash-mounted control

1.01.06 TIRES AND WHEELS

- Front Tire – Two (2) 255/70R22.5, 16 Ply Radial
- Rear Tire – Four (4) 255/70R22.5, 16 ply Radial
- Front Wheels – 22.5" Accuride Polished Aluminum Outside Only, 10 stud
- Rear Wheels – 22.5" Outer Rims, Accuride polished aluminum Outside Only; 22.5" Inner Rims, painted steel, 10 stud

COMPLY

1.01.07 ELECTRICAL

- Alternator – 275 amp 40-SI Quadramount pad with remote battery voltage sense
- Batteries – Two(2) Alliance 1131 Group 31 MF 1850 CCA
- Delco 12V 29MT starter

COMPLY

1.01.08 INSTRUMENT PANEL AND CONTROLS

- Gauges
 - Fuel Level
 - Oil Pressure
 - Transmission Oil Temperature
 - Engine Coolant Temperature
 - Hour Meter and Trip Meter
 - Speedometer – Electronic w/ mph, kph scale
 - Tachometer – 3000 RPM
 - Digital Voltage
 - Air Restriction – Indicator with warning light
 - Inside/Outside Digital Temperature Gauge
- Warning system – Lights and Buzzer
 - Low Fuel
 - Low air pressure
 - Park Brake

COMPLY

- Low Oil pressure
- High Engine Coolant Temperature
- Control – Cruise, switches in LH switch panel
- Audio – AM/FM/CD, Two (2) speakers
- Programmable RPM control (to sense low voltage states >14.2 amps and to increase engine idle) – Electronic engine

COMPLY

1.01.09

CAB EXTERIOR

- Hood – Fiberglass
- Grille – Chromed Plastic
- Cab – 106" BBC Flat Roof aluminum conventional
- Bumper – Three-Piece 14" Chromed with collapsible ends
- Frame – Steel, 9/32" x 3-7/16" x 10-1/16"
- Tow Hooks – Front
- Mirrors – Door Mounted Dual Bright West Coast, 102" equipment width
 - 8" convex , bright finish, mounted under primary mirrors
 - Passenger side convex mounted above window
 - Remote/Heated
- Windshield wipers – two-speed, with intermittent
- Windows – Tinted safety glass
- Lighting
 - Headlights
 - Clearance/Marker Lights – Five (5) Amber LED
 - Daytime running lights
- Horns – Dual electric
- Fuel Tank – 50 Gallon, LH, Alliance Fuel Filter/Water Separator with Primer Pump
- Keys – All keyed alike
- Grab Handles – right and left sides
- Rubber Cab Mounts

COMPLY

- Composite Exterior Sun Visor
- 1.01.10 CAB INTERIOR**
- Interior – Opal Gray
 - Silencer Package for Cab
 - Sun visors – Driver and Passenger
 - Flooring – Black Vinyl with insulation
 - Seats **COMPLY**
 - Bostrom Talladega 910 High-back Air Suspension Driver’s and Passenger’s Seat
 - Black Cordura Plus Cloth Seat Covers
 - Dual Seat Armrests
 - Three-point fixed D-ring retractor seatbelts
 - Climate Control
 - Heater/ Defroster/AC with a fresh air filter
 - Main HVAC controls with recirculation switch
 - One (1) Denso heavy duty and one (1) Sanden compact refrigerant compressors
 - Dome light – activated by RH/LH doors, map lights, reading lights, forward mounted
 - Electric Door Locks and Windows
 - Electrical – Solid state circuit protections and fuses
 - Roof mounted console with upper storage compartments
 - Cup holders in dash
 - 12V Power Supply
- 1.01.11 COATINGS/PAINT**
- Exterior – Freightliner Black **COMPLY**
 - Interior – Gray / Black
- 1.02 CHASSIS MODIFICATIONS**
- The following modifications will be made to the chassis by manufacturer. **COMPLY**
- 1.02.01 ALUMINUM WHEEL DRESS UP KITS**
- Install stainless steel hub and lug nut covers on all four (4) outside aluminum wheels. **COMPLY**

- Engraved label above all four (4) wheel wells "Max. Tire Pressure 95 PSI".
- 1.02.02 RUNNING BOARDS**
- Repaint the OEM steps, install diamond plate trim, and paint the OEM fuel tank straps black. Polish the aluminum fuel tank.
- COMPLY**
- 1.02.03 RUBBER MUD FLAPS**
- Mud flaps shall be installed behind the rear wheels. When module is in the "low" position, flap should just barely make contact with ground.
- COMPLY**
- 1.02.04 MAP BOX AND MAP BOOK HOLDER**
- A "custom designed", black powder coated, two (2) piece map box/map book holder shall be provided.
 - One (1) portion installed in the cab between the seats the other portion vertically on the cab wall behind the map box.
- COMPLY**
- 1.02.05 TRAILER HITCH/PLUG**
- A Class IV trailer hitch shall be mounted below the rear bumper, with a 10,000 lbs. total rating and 1,000 lbs. tongue weight capacity, receiver opening to be 2" square.
 - A seven-pin "female" trailer connection shall be provided.
- COMPLY**
- 1.03 MODULE-TO-CHASSIS MOUNTING SYSTEM**
- The module shall be bolted to the chassis frame in ten (10) locations. Each mounting location shall include a hard rubber isolation pad between the Chassis frame and the module lateral frame.
 - A ¾" Grade 5 bolt shall extend through the module lateral frame member and bolt to the web of the chassis frame with a 5/8" Grade 5 bolt. All bolts shall be secured with locking nuts.
- COMPLY**
- 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.
- COMPLY**

- 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.

COMPLY

2.01

MATERIAL

• EXTRUSIONS SIZE ALLOY

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

COMPLY

• FORMED SHEETING SIZE ALLOY

Skin/Roof/Compartments/Subfloors/Doors 0.125" 5052-H32

Interior Cabinets 0.090" 5052-H32

DiamondPlate 0.125"/0.08" 3003-H32

StainlessSteel 16 ga., 20 ga. 304 # 4B

2.02

MODULE DIMENSIONS

- Specifications are listed as minimums.
- Overall Vehicle Dimensions:

Drop Skirt 4"

Length: 29' 9" (357")

Width: 8' 4" (100")

Height: 9' 10.25" (118.25")

COMPLY

- Exterior Module Dimensions:
 - Length: 19' 6" (234")
 - Width: 8' 4" (100")
 - Height: 8' 2.375" (98.375")
- Interior Dimensions:
 - Length: Forward Wall to Rear Doors-226"
 - Width: Left Wall to Right Wall- 96"
 - Floor Width: Left Cabinets to Right Cabinets 40.5"
 - Height: Floor to Ceiling 78"

COMPLY

2.03

STRUCTURAL FRAMING

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

COMPLY

2.04

FOUNDATION SYSTEM

- Shall consist of a 0.125" aluminum sheet subfloor with foundation members securely welded under the subfloor.
- Members shall consist of six (6) 3" x 3" x 0.375" structural angles and one (1) 1.5" x 3" x 0.250" channel (above fuel tank) running full width side to side with two (2) 0.250" x 1.5" aluminum members running lengthwise between the structural angles.

COMPLY

2.05 MODULE SEAMS

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

COMPLY

2.06 EXTERIOR SKIN

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

COMPLY

2.07 MODULE ROOF

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

COMPLY

2.08 MODULE EXTERIOR COMPARTMENTS

- All compartments are constructed from formed 0.125" aluminum and are securely welded to the subfloor and structural framing.

COMPLY

- A baffled drain hole shall be provided in all exterior compartment bottoms that extend below the floor line.

- All exterior adjustable shelves shall be mounted on heavy duty aluminum unistrut track which is securely welded to compartment interiors. Each shelf shall support at least 300 lbs. of equipment.

COMPLY

- **COMPARTMENT #1**

Interior Dimensions – 40"W x 34.625"H x 25"D

Doorway Dimensions – 40"W x 34.625"H

Location – Street side, forward

Shelving – Two (2) roll out trays; one (1) adjustable, one (1) fixed

Door(s) – Double

Light(s) – One (1) LED strip light

Additional Instructions – Trays shall operate on 24" locking slides and have a 300 lb. capacity.

COMPLY

- **COMPARTMENT #2**

Interior Dimensions – 102"W x 13.625"H x 25"D

Doorway Dimensions – 102"W x 13.625"H

Location – Street side, forward of wheel well

Shelving – Two (2) fixed roll out trays

Door(s) – Single, hinged down

Light(s) – One (1) LED strip light

Additional Instructions – The roll out tray shall operate on 24" locking slides and have a 300 lb. capacity. Two (2) 120VAC outlets; one (1) forward rear wall and one (1) aft rear wall shall be installed. A female air chuck tapped into chassis are systems shall be located in this area.

COMPLY

- **COMPARTMENT #3**

Interior Dimensions – 40"W x 50"H x 25"D

Doorway Dimensions – 40"W x 50"H

Location – Street side, rear

Shelving – Two (2), adjustable.

COMPLY

Door(s) – Double

Light(s) – One (1) LED strip light

Additional Instructions – An Onan 6kW diesel generator shall be installed in this compartment, plumbed to take fuel directly from the vehicle tank but not draw the fuel tank below 1/4 full. Generator assembly shall be mounted on a slide-out tray for easy maintenance and repair. Generator muffler shall extend to street side rear corner. Louvers shall be stamped into the door for ventilation.

COMPLY

• **COMPARTMENT #4 – Drawer**

Interior Dimensions – 49.875"W x 13.625"H x 25"D

Location – Curbside, rear

Light(s) – One (1) LED strip light

Additional Instructions – This compartment shall be a roll out drawer capable of holding tear gas canisters. The drawer shall have 300 lb. capacity slides, and a stainless steel paddle latch with rotary catch.

COMPLY

• **COMPARTMENT #5**

Interior Dimensions – 54.5"W x 52.5"H x 25"D (lower) 8.25"D (upper)

Doorway Dimensions – 54.5"W x 52.5"H

Location – Curbside, forward

Shelving – One (1) fixed roll out tray

Door(s) – Double

Light(s) – One (1) LED strip light

Additional Instructions – The roll out tray shall operate on 24" locking slides, have a 300 lb. capacity. A 42"W x 27"H plasma TV, printer, and laptop docking station shall be installed in this compartment. Two (2) 120VAC outlets shall be installed in the side walls, one (1) on each side. The door skins shall be painted white steel to allow use as magnetic dry marker surfaces.

COMPLY

One (1) **Customer Supplied** radio shall be installed in this compartment on the side walls.

Two (2) Radio speakers installed flush mounted in ceiling of "Media Center", wired to allow

broadcast from Radio or Laptop TV Connection thru speaker.

Doors shall be held in the open position by Cast Products "grabber" type hold-open devices.

• **COMPARTMENT #6**

Interior Dimensions – 75"W x 13.625"H x 25"D

Doorway Dimensions – 75"W x 13.625"H

Location – Curbside, lower forward

Shelving – One (1) fixed roll out tray

Door(s) – Single, hinged down

COMPLY

Light(s) – One (1) LED strip light

Additional Instructions – The roll out tray shall operate on 24" locking slides, have a 300 lb. capacity.

Two (2) 120VAC outlets; one (1) forward rear wall and one (1) aft rear wall shall be installed.

2.09 MODULE DOORS

- The doors shall be pan formed and bonded to extruded aluminum frames.

COMPLY

2.09.01 DOOR SEAL

- Each doorframe shall have an air cell hollow core, 360-degree compression door seal located outboard of the door switches and latch hardware. This seal creates watertight, dust-free compartment integrity and protects latches and switches from exposure to dirt, moisture, and road salts.

COMPLY

2.09.02 DOOR HINGES

- Shall be full length, piano type, stainless steel hinges, 1.75" wide with a 0.25" pin.
- The hinges shall be attached with 12 x 3/4 stainless steel truss head screws spread 4" apart.
- All curbside and street side doors shall be hinged on the forward sides. All rear doors shall be hinged on the outboard sides.

COMPLY

2.09.03 DOOR LATCHES

- Shall be flush mounted, stainless steel, Versch paddle type slam latches with rotary latch

COMPLY

striker posts, which meet FMVSS 206 requirements.

- Striker shall be adjustable and shall be secured with a nut from behind door frame. The striker washer will not be removed. Cold rolled, threaded 0.162" steel rods shall be used to activate dual rotary latches. Once final adjustments to latches are made, threads are to have Locktite or equivalent applied.
- All double door compartments shall have an exterior stainless steel paddle handle and rotary latches on each door. Doors will latch to door frame mounted striker posts only and not to one another.
- All entrance doors shall have interior handles with dual point, rod actuated, rotary latch systems which are lockable inside and out.
- All latches will have a non-slip surface on the underside of the latch. All compartment and module access doors shall be keyed for #J236 keys.
- Deadbolts shall be provided for all passage doors and Compartments #4 and #5.

COMPLY**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.
- Compartment #5 shall have Cast Products "grabber" type hold-open devices with replaceable rubber catches.
- Compartments #2, #3, and #6 shall have rubber bumpers installed.

COMPLY**2.09.05****CURBSIDE DOOR CONTROL**

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

COMPLY**2.09.06****REAR DOOR CONTROL**

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

COMPLY

- | | | |
|----------------|--|---------------|
| 2.09.07 | <p>COMPARTMENT DOORSKINS</p> <ul style="list-style-type: none"> • Shall be flat, mill finish aluminum plate and be removable to service door hardware. • The doorskin for Compartment #5 shall be painted white aluminum. • Red/white 1" conspicuity tape shall be shipped loose. | COMPLY |
| 2.09.08 | <p>ENTRANCE DOORSKINS</p> <ul style="list-style-type: none"> • Shall be white painted aluminum with 20" stainless steel kick panels on the side passage door and on the rear doors. • Each door skin shall be two (2) pieces, split below the paddle latch. • Red/white 1" conspicuity tape shall be shipped loose. | COMPLY |
| 2.09.09 | <p>ENTRANCE DOORWAYS</p> <ul style="list-style-type: none"> • One (1) curbside and two (2) rear module entrance doors shall be provided. The curbside doorway dimensions shall be 31"W x 80.75"H. • The rear doorway dimensions shall be 36"W x 72"H. (Section 2.09.03 Related) | COMPLY |
| 2.09.10 | <p>THRESHOLDS</p> <ul style="list-style-type: none"> • All compartment and module access door frames shall have full width formed stainless steel threshold plates to protect the lower edge of frame. | COMPLY |
| 2.10 | <p>MODULE INTERIOR CABINETS</p> <ul style="list-style-type: none"> • Shall be formed of 0.090" aluminum and shall be securely welded or mounted to the structural framing. All interior adjustable shelves shall be mounted on 1" wide aluminum Unistrut track. • CABINET # 1 – Electrical Cabinet Dimensions – 39"W x 16.5"H x 25"D Location – Street side, forward Shelving – None Door(s) – Aluminum, hinged, swing up door with a hold-open device, a rotating non-keyed lock, and an automatic compartment light. Additional Instructions – This cabinet shall house the electrical compartment module. | COMPLY |

- **CABINET #2**
Dimensions – 40.75"W x 57"H x 25.75"D
Location – Street side
Shelving – Five (5) roll out trays; one (1) fixed, four (4) adjustable **COMPLY**
Door(s) – ROM roll up with J236 lock
Additional Instructions – Each tray shall have a yoke arrangement capable of hold five (5) weapons. Trays shall operate on 20" locking slides and have a 300 lb. capacity.

- **CABINET #3**
Dimensions – 44.5"W x 63.5"H x 25.75"D
Location – Street side, center
Shelving – Four (4) on each side of center divider
Door(s) – Webbed net with quick release buckles **COMPLY**
Additional Instructions – A center divider with four (4) adjustable shelves on each side shall be installed to make ten (10) equal sized cabinets in this area for storage of cases.

- **CABINET #4**
Dimensions – 44.5"W x 63.5"H x 25.75"D
Location – Street side, center
Shelving – Four (4) on each side of center divider
Door(s) – Webbed net with quick release buckles **COMPLY**
Additional Instructions – A center divider with four (4) adjustable shelves on each side shall be installed to make ten (10) equal sized cabinets in this area for storage of cases.

- **CABINET #5**
Dimensions – 32.75"W x 33.5"H x 25.75"D
Location – Street side, rear
Shelving – Two (2) adjustable shelves and one (1) fixed roll out tray **COMPLY**
Door(s) – ROM roll up with J236 lock
Additional Instructions – Tray shall operate on 20" locking slides and have a 300 lb.

capacity. The 120VAC Power Box shall be installed in the aft wall (Section 6.21 related), recessed so as not to protrude into the cabinet. One (1) four-plex outlet shall be installed centered vertically on the rear wall of the cabinet. The transfer switch shall be installed on the side wall.

COMPLY

- **CABINET #6 – Drawer**

Dimensions – 37.5"W x 18.5"H x 27"D

Location – Street side, forward

Shelving – None

Additional Instructions – This area shall have one (1) 37.5"W x 18.5"H x 27"D drawer. Drawer shall operate on 18" slides rated at 300 lbs. per set and have a gas shock hold open/closed device to ensure drawer does not accidentally open or close during operation of the vehicle. Drawer shall be formed of aluminum welded construction with an automotive enamel finish and formed structural support on the sides and front of drawer. Drawer shall have a J236 lock.

COMPLY

- **CABINET #7 – Drawers**

Dimensions – 37"W x 9"H x 25"D forward drawer, 19" D aft drawer

Location – Street side, lower

Shelving – None

Additional Instructions – This area shall have two (2) 39"W x 9"H heavy duty drawers with a minimum interior height of 9" to allow storage of ammo cans. Each drawer shall operate on 18" slides rated at 300 lbs. per set and have a gas shock hold open/closed device to ensure drawers do not accidentally open or close during operation of the vehicle. Drawers shall be formed of aluminum welded construction with an automotive enamel finish, and formed structural support on the sides and front of drawers. Drawers shall have J236 locks.

COMPLY

Drawers shall be designed for storage of explosives with drawers split into two sections per drawer. (Explosive mag)

- **CABINET #8**

Dimensions – 40.75"W x 54"H x 25.75"D

COMPLY

Location – Curbside, rear

Shelving – None

Door(s) – ROM roll up with J236 lock

Additional Instructions – An adjustable vertical divider shall be installed on full width unistrut installed on the back wall. Unistrut shall be installed on the forward side wall of the cabinet and the side of the vertical divider to allow future installation of an adjustable shelf. Two (2) restraining straps shall be installed in the aft portion to hold shields. Cabinet and divider shall be painted with gray textured polyurethane. (Section 3.07 related)

COMPLY

• **CABINET #9**

Dimensions – 41.625"W x 41"H x 25.75"D

Location – Curbside, rear

Shelving – Two (2) adjustable roll out trays

Door(s) – ROM roll up with J236 lock

Additional Instructions – Trays shall operate on 20" locking slides and have a 300 lb. capacity.

COMPLY

• **CABINET #10**

Dimensions – 52.75"W x 54"H x 18.75"D

Location – Curbside, center

Shelving – Eight (8) adjustable vertical dividers

Door – ROM roll up with J236 lock

Additional Instructions – Three horizontal strips of unistrut shall be installed on the back wall for installation of eight (8) adjustable vertical dividers for storage of sniper rifle cases. Straps shall be installed in upper and lower portions of cabinet to hold cases securely in place.

COMPLY

• **CABINET #11**

Dimensions – 27.825"W x 44.75"H x 25.75"D

Location – Curbside, forward

Shelving – One (1) fixed roll out tray

Door(s) – ROM roll up with J236 lock

Additional Instructions – This cabinet shall have one (1) vertically sliding rollout tray capable of holding eight (8) weapons. Tray

COMPLY

shall operate on 20" locking slides and have a 300 lb. capacity. The weapons shall be secured upright in the tray using stock mounts and "Quick Fist" upper supports. (Section 5.60X related)

COMPLY

- **CABINET #12 – Drawers**

Dimensions – 30"W x 9.5"H x 25"D

Location – Curbside, forward

Shelving – None

Additional Instructions – This area shall have two (2) 30"W x 9.5"H x 25"D drawers with a minimum interior height of 9" to allow storage of ammo cans. Each drawer shall operate on 18" slides rated at 300 lbs. per set and have a gas shock hold open/closed device to ensure drawers do not accidentally open or close during operation of the vehicle. Drawers shall be formed of aluminum welded construction with an automotive enamel finish, and formed structural support on the sides and front of drawers. The lower drawer shall have machine stamped divider supports along the side for at least four (4) dividers per drawer with four (4) adjustable dividers provided with the drawer. Drawers shall have J236 locks.

COMPLY

- **CABINET #13 – Drawers**

Dimensions – 43.75"W x 8.25"H x 25"D

Location – Curbside, center

Shelving – None

Additional Instructions – This area shall have two (2) 43.75"W x 8.25"H x 25"D drawers. Each drawer shall operate on 18" slides rated at 300 lbs. per set and have a gas shock hold open/closed device to ensure drawers do not accidentally open or close during operation of the vehicle. Drawers shall be formed of aluminum welded construction with an automotive enamel finish, and formed structural support on the sides and front of drawers. Drawers shall have J236 locks.

COMPLY

- **CABINET #14 – Drawer**

Dimensions – 43.75"W x 11.75"H x 25"D

Location – Curbside, rear

Shelving – None

COMPLY

Additional Instructions – This area shall have a 43.75"W x 11.75"H x 25"D drawer. Drawer shall operate on 18" slides rated at 300 lbs. per set and have a gas shock hold open/closed device to ensure drawer does not accidentally open or close during operation of the vehicle. Drawer shall be formed of aluminum welded construction with an automotive enamel finish, and formed structural support on the sides and front of drawer. Drawer shall have machine stamped divider supports along the side for at least three (3) dividers with three (3) adjustable dividers provided. Drawer shall have a J236 lock.

COMPLY

2.11 SIDE DOORSTEP

- A recessed double step doorstep shall be provided which is 19" deep x 31" wide at the curbside passage door. There shall be a drain hole and an open grate step plate, which is removable for cleaning purposes.
- Polished aluminum diamond plate kick panel will be installed on the sides and face of doorstep.

COMPLY

2.12 WHEELWELL LINERS

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

COMPLY

3 COATINGS AND FINISHES**3.01 MODULE FINISH PREPARATION**

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

COMPLY

3.02 MODULE PRIMER

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

COMPLY

3.03 PAINT TYPE

- Shall be "Sherwin Williams" acrylic urethane.

COMPLY

3.04 COLOR SCHEME

- Base color: Freightliner Black

COMPLY

- Module Roof – White – (SW G8-33631 alt 2) with non-slip surface cut-in 2" from the edge of roof
- 3.04.01 CHASSIS COLOR SCHEME** **COMPLY**
- Color Code: Freightliner Black
- 3.05 LETTERING/DECALS** **COMPLY**
- An allowance of \$3,000.00 shall be provided for graphics and lettering. Graphics and Letterings to be determined at pre-construction meeting.
- 3.06 COMPARTMENT FINISH** **COMPLY**
- All compartments shall be painted with gray textured polyurethane.
- 3.07 INTERIOR CABINERY FINISH** **COMPLY**
- All interior cabinetry shall be sanded, etched, washed, primed, and painted white with gray splatter. (SW G8-33631 alt 2) (#G8-51748). Cabinets #2 and #8 shall be painted with gray textured polyurethane.
- 3.08 MODULE FLOORING MATERIAL** **COMPLY**
- Shall be Genome (#TFM2702) Altro Transflor Meta Slip-Retardant Sheet flooring providing durability, ease of maintenance, and stain resistance. It shall contain a high concentration of microscopic aluminum oxide particles and colored quartz crystals suspended throughout the thickness with silicon carbide grains in the entire wear surface for slip-retardant performance. It shall have a bacteriostat incorporated to give flooring excellent anti-bacterial activity and an overall thickness of 0.11" nominal.
 - Flooring shall be manufactured for Wear Resistance to meet ASTM C 501, indentation resistance in accordance with ASTM F 1303 and ASTM F 970, Grade 1 standards, shall meet ASTM D 2047 Slip Retardant, ASTM F 970 Static Load, ASTM E648, CMVSS, FMVSS 302, CAN ULC S102.2 Fire Data Tests.
 - An insulated floor shall be installed over the subfloor. It shall be constructed with square tubing (0.75" x 0.75" x 0.125"), filled with 0.75" thick polystyrene foam insulation, and covered with 0.125" aluminum sheet. (Section 2.04 related)

| | | | |
|-------------|-------------------------------------|--|---------------|
| 3.09 | COMPARTMENT LINING | <ul style="list-style-type: none"> • Compartment floors and shelves shall be lined with light gray Mate'flex material. | COMPLY |
| 3.10 | CABINET LINING | <ul style="list-style-type: none"> • Interior cabinet shelves shall be lined with easy sweep mats which are removable for ease of cleaning. | COMPLY |
| 3.11 | SURFACES AND FINISHES | <ul style="list-style-type: none"> • All surfaces and finishes shall be impervious to soap, disinfectants, and water, to permit washing and sanitizing. | COMPLY |
| 3.12 | AUTOMOTIVE UNDERCOATING SEAL | <ul style="list-style-type: none"> • The entire chassis and module underbody (excluding drive shafts, wheels, exhaust system, air lines tanks and sytem components, electrical wiring and harnesses, and lubrication fittings, per manufacturer's specifications) shall be sprayed with undercoating for reduced corrosion and added sound deadening. | COMPLY |
| 3.13 | NON-SLIP ROOF | <ul style="list-style-type: none"> • The roof shall be finished as a white non-slip surface. A 2" lip out from the cutout shall not be finished as a non-slip surface. | COMPLY |
| 4 | <u>MODULE EXTERIOR</u> | | |
| 4.01 | STEP/BUMPER | <ul style="list-style-type: none"> • Shall be a welded construction of 3" x 3" x 0.375" aluminum angle and 2" x 0.250" plate and shall be covered by 0.125" bright aluminum diamond plate. • The center section, below the doors, shall have a grip strut open flow design to prevent accumulation of water and snow and provide a 10" step. • The outermost 12" of each end shall be angled to prevent dragging of corners in high angle of approach/departure areas. • Diamond plate shall be formed on front and rear edges for channel type strength and formed 0.090" aluminum close out shall be welded to the underside of the step/bumper. • The bumper shall be bolted directly to the chassis frame using high strength Grade 5 | COMPLY |

- bolts. Bumper shall be easily removable and replaceable in case of damage.
 - A hinged step shall be installed to fold up and over the bumper when not in use. **COMPLY**
 - Bumper and hinged step to be black powder coated to match module.
- 4.02 RUB RAILS**
- Shall be black powder coated extruded aluminum of a double channel design and 0.125" wall thickness for maximum strength.
 - Rub rails shall be 2.5" high x 0.75" wide and run along the lower edge of body, interrupted only by wheel well opening. **COMPLY**
 - A red/white conspicuity reflective tape shall be determined at pre-build.
- 4.03 FENDER RINGS**
- Shall be installed on the module. Fender rings shall be black rubber following the full contour of the wheel well opening. **COMPLY**
- 4.04 DRIP RAIL**
- Shall be extruded, anodized aluminum running full length of module at top of sides, front, rear and over each exterior compartment.
 - Drip rails shall be installed with bonding tape that will withstand exposure to the elements. **COMPLY**
 - They shall be installed to allow easy replacement without the use of mechanical type fasteners, and finished with 45 degree angled ends to avoid hooking materials which brush against the vehicle causing damage.
- 4.05 ROCK GUARDS**
- Made of aluminum diamond plate with a black powder coated finish shall cover front module corners 24" up from bottom of body, 2.5" down side of body, and meet the cab at the front of the body. **COMPLY**
- 4.06 REAR STEP GUARD**
- Made of bright aluminum diamond plate with a black powder coated finish shall extend from top of rear step to the bottom of rear doors, full width formed around corners, and 2.5" forward on each side. **COMPLY**

- 4.07 FUEL FILLS**
- Shall be on the module and have polished cast aluminum fill wells and be properly vented. All fuel filler hoses will be protected with a 0.125" aluminum protection plate. Fuel fills shall be installed in accordance with "Body Builder's" recommendation. **COMPLY**
- 4.08 TELESCOPIC LIGHTS**
- Shall be two (2) 350 watt, Kwik Raze Magnafire 3000 Model #KR-833 TM tripod truck mount lights installed on the rear of the module with a 4" standoff. **COMPLY**
 - Each light shall be controlled by a switch on the light head. A 120VAC weatherproof outlet shall be installed near each light.
- 4.09 STEP, ELECTRIC**
- Shall be provided and mounted under the curbside door. It shall be a Kwikkee Model and be wired to open and close with the side door. **COMPLY**
- 4.10 AWNING(S)**
- Two (2) 18' Colorado Carefree One-Touch Apex electric awning shall be installed, one (1) on the street side and one (1) on the curbside of the module. **COMPLY**
 - Control panels shall be installed just inside the curbside passage door of the module.
- 4.11 FOLD-DOWN STEPS**
- Four (4) Cast Products folding step/handholds shall be mounted on the rear to the left of the entrance doorway of the module. **COMPLY**
- 4.12 GRAB BARS (EXTERIOR)**
- Two (2) 12" stainless steel grab handle shall be installed on the street side roof to assist in access to the roof. **COMPLY**
- 4.13 EXTERIOR BRACKETS**
- Three (3) stainless steel mounting brackets shall be installed, one (1) on the curbside, two (2) on the street side. Brackets shall provide mounting locations for white magnetic marker boards to be used on module exterior. (Section 5.23X related) **COMPLY**
- 4.14 MISCELLANEOUS EXTERIOR EQUIPMENT**

- One (1) ladder storage rack shall be mounted on the street side portion of the roof. The rack shall be constructed with rails to guide the ladder, a stop at the forward portion of the mount and tie-downs to hold the ladder in place. **COMPLY**
 - A stainless steel plate shall be installed on the edge of the roof to protect the paint when ladder is being loaded or unloaded.
- 5 MODULE INTERIOR**
- 5.01 INTERIOR FINISH**
- All interior hangers, supports, fasteners, latches, and hinges shall be of a near flush type design when not in use.
 - The module interior shall be free of sharp projections. Exposed edges and corners shall be broken with a radius, chamfer, or covered with aluminum trim, plastic molding, or rubber edging. **COMPLY**
- 5.02 UPPER WALL COVERING**
- Shall be covered with light gray heavy grade 0.125" ABS vinyl. All panels shall be attached with a Norton very high bond system. **COMPLY**
- 5.03 HEADLINER**
- Shall be fiberglass reinforced 0.080" "Glasboards" with textured white surface. **COMPLY**
- 5.04 MODULE ACCESS OPENING BUMPERS**
- Shall be located over all module access openings and shall be made with 1" high-density foam covered with heavy-duty vinyl matching upholstery. **COMPLY**
- 5.05 ACCESS DOOR GRAB RAILS**
- Each module access door shall have a 1.250" "L" style stainless steel grab handle which may also be used as an entry assist rail. **COMPLY**
- 5.06 INSULATION**
- The module sides, ends, roof, and doors shall be insulated to enhance the interior environment and to prevent heat, cold, and external noise from entering the module. The insulation shall be a non-settling polystyrene foam plank material of 2", 1.5", or 0.75" **COMPLY**

- thickness depending upon location and available space.
- In addition, a Norton VHB (very high bond) system shall be utilized on side walls and roof to provide a thermal and noise break between the outside skin and structural members.
- 5.07 MODULE CLIMATE CONTROL SYSTEM** **COMPLY**
- One (1) 120V AC Coleman Model #HP2 RV roof top Heat Pump unit with a total of 15,000 BTU heating/ 12,000 BTU cooling shall be installed. **COMPLY**
 - The unit shall have a fan and controls independent of the cab system. The unit shall be mounted on the roof and run off of 120 shoreline power and be wired to the generator.
- 5.08 NO SMOKING/FASTEN SEAT BELTS SIGNS** **COMPLY**
- "No Smoking/Fasten Seat Belt" signs shall be installed - one (1) each for driver's area.
- 5.09 WHITE MARKER BOARD**
- Three (3) painted white magnetic dry marker boards shall be installed on the module interior. **COMPLY**
 - The boards shall be held in place with an offset flange and Velcro fasteners and be removable for use on the brackets mounted on the exterior of the module. (Section 4.50X related)
- 5.10 INTERIOR EQUIPMENT**
- A table storage area shall be below the painted white aluminum dry marker board at the front of the module. A restraining strap shall be provided and shipped loose for customer installation. **COMPLY**
- 6 ELECTRICAL**
- 6.01 WIRING PROVISIONS**
- 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. **COMPLY**
 - The wiring shall be colored, numbered, and function coded every 3" for permanent identification and correspond with the vehicle schematics.
 - Solderless, insulated connectors shall be used.

- Wiring panduit shall be used in power component module to ensure air circulation throughout power component wiring.
- The wiring shall be routed in conduit or looms and wiring shall be secured to the underbody or frame with insulated metal cable straps. All power distribution cabling shall be covered with a protective split loom.
- Where wiring passes over the exhaust, a heat shield shall be installed. Wiring and electrical components shall not be placed under or behind the cab seats. The power component module shall be equipped with positive locking plugs to provide easy disconnect for remount or repair of body.
- All wiring devices, switches, outlets, etc., except circuit breakers, shall be rated to carry 125% of the maximum ampere load for which the circuit is protected.

COMPLY

6.02 OVERLOAD PROTECTION DEVICES

- Body electrical wiring shall utilize overload protective devices of the automatic reset, circuit breaker type.
- In addition, two (2) single pole, 20-amp circuit breakers shall be provided for future use.
- The circuit breakers, relays, and other electrical items shall be located in the enclosed power component module.

COMPLY

6.03 WIRING ACCESS

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

COMPLY

6.04 BACK-UP ALARM

- Shall be installed. The alarm shall have a sound output level of 97 dB and have a momentary disable switch in the driver's console

COMPLY

6.05 SERVICE LOOP

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

COMPLY

- 6.06 DRIVER'S CONSOLE**
- Made of formed black powder coated aluminum, shall be installed. Console shall have a drop in cup holder, three (3) brushed aluminum dividers, and a customer specific panel. The panel shall include the following:
 - Siren
 - Radio head (supplied by customer)
 - Generator Remote Panel
 - Combined Door/Compartment Open Warning Light
- 6.07 MAP LIGHT**
- A Sunnex Model #741-20 map light shall be mounted in the cab area.
- 6.08 DOOR AJAR WARNING LIGHT**
- A red flashing warning light on driver's console shall be provided to warn driver of open passenger access doors or open exterior compartment doors.
- 6.09 MODULE INTERIOR LIGHTING**
- Shall be designed to keep vehicle height to a minimum without interfering with the structural integrity of the roof.
 - There shall be eight (8) fluorescent lights recessed in the ceiling on the centerline. Four (4) lights shall have red lens covers.
 - Two (2) On/Off switches (one for red lights, one for white lights) for the fluorescent lights shall be located near the curbside passage door and two (2) On/Off switches (one for red lights, one for white lights) shall be located near the rear doors.
 - Lights shall not come on automatically with opened doors.
- 6.10 BASIC EXTERIOR LIGHTING**
- Shall include headlights, parking lights, directional signal lights, tail and stop lights, license plate light, back-up lights, side marker lights, hazard and warning lights, and clearance lights as required by FMVSS 108.

- Rear stop, turn, side marker, back-up lights, and side clearance lights shall be "Truck-Lite" sealed units.
- A disable switch for all exterior lighting shall be programmed into the Unitrol siren.

COMPLY

6.11 COMMUNICATIONS EQUIPMENT

- The customer shall be responsible for powering up and tuning of the radio equipment.
- Item #1 Description: Install one (1) "**Customer Supplied**" Motorola XLT 5000 radio Location: Main Radio in Compartment #5, other in driver's console Instructions: Radio wired to have radio traffic sent through PA system to siren speaker allowing radio to be heard outside the vehicle.
- Item #2 Description: One (1) TV type coaxial cable Location: Compartment # 5 to exterior plug in on curbside of module Instructions: Allows hookup to cable TV connection
- Item #3 Description: Radio Coaxial cable Location: Compartment #1 to Compartment #5 Instructions: Future radio Connection (exact location at pre-build)
- (2) One (1) 42" LCD/Plasma television with fixed &/or swivel mount. All respective cables, padding and electronic connections included. T.V. to be mounted in exterior compartment #5. Customer and vendor to agree at pre-build meeting, brand, type, resolution and bracket capabilities.

COMPLY

6.12 ANTENNA MOUNTS AND CABLES

- Two (2) NMO universal antenna mounts with KHFUD cables and Larsen HyPer master universal connectors and mini-UHF adapters shall be installed on the module.
- Antenna base access shall be through the dome light openings, and the cables shall terminate in Compartment #5.

COMPLY

6.13 SHOREPOWER/GENERATOR LOAD CENTER

- Utility power shall be furnished with 120VAC shorepower via one 20 amp Kussmaul receptacle located on the rear of the module and distributed through a recessed Load Center power box, flush mounted in Cabinet #5, so as to maximize compartment space.

COMPLY

- The Load Center shall be wired with an input cord for a generator hookup. All 120VAC outlets shall be GFI protected.
- A transfer switch shall be furnished and wired between generator and shoreline. This will provide power to selected 120VAC items from either electrical source.
- The load center shall have breakers to isolate as follows:
 1. BatteryCharger
 2. Exterior Receptacles/SS
 3. InteriorReceptacles
 4. Exterior Receptacles/CS
 5. HVAC
 6. Blank
 7. Blank
 8. Blank
- Two (2) 120VAC duplex outlets shall be installed in Compartments #1 and #2, two (2) in Compartment #5, two (2) in Compartment #6, and one (1) 120VAC four-plex outlet in Cabinet #5.
- Four (4) weatherproof 120VAC duplex grounded outlets shall be mounted, one (1) street side above the wheelwell, one (1) curbside above the wheelwell, two (2) on the module rear at the pole lights.
- All circuits will be identified at panel and at switches/lights/duplex plugs.

COMPLY

6.14 BATTERY GROUNDS

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

COMPLY

6.15 BATTERY CHARGER

- An 80-amp minimum battery charger/conditioner shall be provided and wired to shoreline. The charger shall have totally filtered output voltage, locked at a maximum 14 volts.

COMPLY

- The charger shall be designed for long term charger and converter operation without damage to batteries.
- 6.16 COMPARTMENT LIGHTING** **COMPLY**
- An LED strip light shall be installed in all outside compartments and shall be activated by a door switch.
- 6.17 EXTERIOR DOOR SWITCHES** **COMPLY**
- Shall be 1/2" door switches. All door switch terminals shall have Heatshrink installed.
- 7 EMERGENCY WARNING SYSTEMS**
- 7.01 FRONT LIGHTBAR** **COMPLY**
- Shall be a 100" Whelen #4500 Plus Lightbar.
 - Pattern from curbside to street side as follows: Red lens Red Super LED flasher, Red lens Red Super LED flasher, Blue lens Blue Super LED flasher, Forward Facing Load Light, Steady LED Red, Forward Facing Load Light, Blue lens Blue Super LED flasher, Red lens Red Super LED flasher, Red lens Red Super LED flasher.
 - The light bar shall be recess mounted with horizontal plane of the roof, and protrude no more than 1/2" beyond the vertical plane of the front and sides of the module.
 - The clearance lights shall be an integral part of the light bar.
- 7.02 REAR LIGHTBAR** **COMPLY**
- Shall be a 100" Whelen #4500 Plus Lightbar.
 - Pattern from curbside to street side as follows: Red lens Red Super LED flasher, Amber lens Amber Super LED flasher, Blue lens Blue Super LED flasher, 17 Degree Scenelight, LED Brake Light, 17 Degree Scenelight, Blue lens Blue Super LED flasher, Amber lens Amber Super LED flasher, Red lens Red Super LED flasher.
 - The bar shall include an LED brake/clearance light over the center lights. The LED clearance lights shall be an integral part of the light bar.
 - The rear doors shall activate the rear scenelights. The light bar shall be recess mounted with the horizontal plane of the roof,

- COMPLY

and protrude no more than 1/2" beyond the vertical plane of the rear and sides of the module.
- 7.03 FLASHERS**

 - Four (4) Super LED flashers shall be mounted two (2) on each side of module in upper corners.
 - Lights shall be two (2) Whelen #90RR5FRR Red lens Red Super LED flashers and two (2) Whelen #90BB5FBR Blue lens Blue Super LED flashers.
 - Two (2) Amber LED flashers shall be mounted on the rear of the vehicle at mid height. Lights shall be Whelen #70A02FAR.

COMPLY
- 7.04 SCENELIGHTS**

 - Four (4) parabolic scenelights shall be installed, two (2) on each side of the module.
 - The scenelights shall be flush mounted and have internal optics to deflect the light down at 8-32 degree angles.
 - The lights shall be Whelen Model #90E000ZR Opti-Scene lights.
 - Switches for the scene lights shall be programmed into the Unitrol siren. None of the scene lights shall be automatically activated, lights will be controlled by switches only.

COMPLY
- 7.05 INTERSECTION LIGHTS**

 - Four (4) Intersection lights shall be installed, one (1) on each fender and one (1) above each wheel. These shall be Whelen #50R03ZRR Red lens Red Super LED lights with flange.

COMPLY
- 7.06 GRILLE LIGHTS**

 - Shall be one (1) Whelen #50R03ZRR Red lens Red Super LED, and one (1) Whelen #50B03ZBR Blue lens Blue Super LED with flange.

COMPLY
- 7.07 SIREN**

 - Shall be a Whelen 295HFS4 siren. Siren options to include radio, horn, manual, wail, yelp, and phaser. The switches shall control emergency light functions as follows:
 - #1 - Rear Amber Lights (rear lightbar and 700 series amber lights on rear)

COMPLY

- #2 - All Lights
- #3 - All Lights and Siren
- #4 - FrontScene (including lightbar)
- #5 - Left Scenes
- #6 - Right Scenes
- #7 - RearScenes (including lightbar)
- #8 - Spare
- #9 - Spare

COMPLY**7.08 SIREN SPEAKERS**

- Shall be Cast Products "Thru-the-Bumper" mount system #5403-1 with two (2) 100-watt speaker drivers.

COMPLY**7.09 MODULE SPEAKERS**

- Two (2) speakers shall be installed in the module and connected for use with the cab radio, TV monitor sound from Compartment #5.
- The fader switch shall be installed in a location to be determined. The final configuration shall be determined at the pre-construction meeting.

COMPLY**7.10 GENERATOR**

- A 6KW Onan diesel generator shall be provided and installed in Compartment #3 and wired to all 120VAC outlets.
- Generator shall be plumbed to draw from the vehicle fuel tank but not draw the fuel tank below 1/4 full.
- Two (2) remote start panels shall be provided: one (1) on the driver's console, and one (1) located on the curbside wall just inside the side passage door.

COMPLY**8 SUPPORTING DOCUMENTATION****8.01 DRAWINGS/MANUAL**

- Successful Bidder shall furnish one (1) set of maintenance, repair, and parts manuals. This set to be on CD for PC, if applicable. All publications to be delivered with the vehicle.
- Manuals shall include "As-Built" body wiring diagrams.

COMPLY

- If not included in the above publication requirements, the following publications shall also be provided:
 - (1) Illustrated engine and transmission, service and parts manuals, listing all parts and only those parts pertaining directly to the model chassis furnished.
 - (2) One (1) set of parts, service and operators manuals for the diesel generator and body module assembly.
 - (3) Training CD's, if available.
 - (3) There shall be one line setting ticket or invoice, and one certified weight ticket with front axle, rear axle and tire weight.
 - (4) Two operator manuals shall be furnished with the truck.
- 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.
NO EXCEPTION
- 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

COMPLY

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

- The following shall be provided with vehicle and consists of the following items:
 1. 4 sets of keys.
 2. Lifetime module warranty.
 3. 7-Year/75,000 miles limited electrical warranty.
 4. 2-Year/30,000 mile Conversion Warranty.
 5. 5 Year Paint Warranty.
 6. Module remount engineering check list.
 7. Climate control information and warranty.
 8. Main schematic.
 9. Electrical equipment amperage ratings.
 10. Wire coding list.
 11. 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
 12. Schematics for individual options.
 14. Warranty and parts list for light bar, etc.

COMPLY

9 MISCELLANEOUS MEDICAL/RESCUE EQUIPMENT

9.01 LOOSE EQUIPMENT

- The following equipment shall be shipped loose with the vehicle:
 1. Touch Up Paint
 2. Cord End for Shoreline (20 amp)
 3. One (1) set of wheel chocks

COMPLY

9.02 CUSTOMER SUPPLIED EQUIPMENT

- The customer shall provide the following equipment and have delivered to manufacturer:
 1. One (1) Motorola XLT 5000 dual head radio

COMPLY

10 INSPECTIONS AND DELIVERY

10.01 MEETINGS/INSPECTION

- Bid price shall include trips for two (2) people for pre-construction meeting and final inspection.
- Trips to include lodging, meals, airfare, and transportation between factory and airport.
- Inspection party may include one person from Fleet Services. Travel expenses for this person will be borne by the customer.

COMPLY

10.02 SERVICE AND PARTS

- The bidder shall state below, the representatives responsible for repairing the modular, which shall furnish a complete supply of parts and components for the repair and maintenance of the cab/chassis units to be supplied. The bidder shall also state below, or by separate attachment, its policy on transportation charges for parts other than those covered by warranty.
- Location of nearest Technical Service Representative: Richard Reynolds
Address: 13810 Etude Rd, San Diego, CA 92128
Telephone: 858-676-6770
- Policy for delivery of parts and components to be purchased for service and maintenance:
Regular method of shipment: UPS
Cost to City: shipping and handling

COMPLY

10.03 TRAINING

- The successful bidder shall provide factory authorized training, to include operation and maintenance procedures to be held at a designated location in the City of Beverly Hills.
- Factory training available: YES / NO

COMPLY

10.04 WARRANTY

- The entire unit shall be warranted against defects in materials and workmanship. The warranties shall cover both parts and labor and begin at the in-service date.

(1) State standard warranties please see warranty info in Support Info

| | |
|--------------------|--|
| Bumper-to-bumper: | 2-year unlimited |
| Chassis Engine: | Please see warranty info in Proposal Section and following |
| Transmission: | 5-years unlimited |
| Module: | Lifetime Sturctural |
| Module Electrical: | 7-year |

Section
 tion and following

(2) Optional warranty offerings:

| | |
|--------------------|---------------------------------|
| Bumper-to-bumper: | Call for details-many options |
| Engine: | Call for details-many options |
| Transmission: | Call for details - many options |
| Module: | Lifetime Structural |
| Module Electrical: | 7-years |

10.05

MISCELLANEOUS REQUIREMENT

- State name and contact information of at least four (4) local municipal agencies that currently use a similar machine being offered.

- LA County Sheriff's Office

Detective Marcus Friedemann ^(Agency Name) 323-881-7500

(Contact name & telephone number)
- San Bernardino County

Detective Dan Glozer ^(Agency Name) 909-890-4854

(Contact name & telephone number)
- City of Fresno

Jason B. MacDonald ^(Agency Name) 559-488-2505

(Contact name & telephone number)
- City of Bakersfield Police Department

Sgt. Scott Tunnicliffe ^(Agency Name) 661-496-6740

(Contact name & telephone number)

(End of technical specification)

Also please refer to descriptive references in Proposal Section.

Freightliner (FTL)



Run Smart™

Freightliner Medium-Duty/Business Class

| Description | Coverage | |
|---------------------------|-------------------|-----------------------|
| | Time ¹ | Distance ¹ |
| Basic Vehicle | 2 Years | Unlimited |
| Battery | 1 Year | 100,000 mi/161 000 km |
| Brightwork | 6 Months | Unlimited |
| Cab Corrosion/Perforation | 5 Years | Unlimited |
| Cab Structure | 2 Years | Unlimited |
| Chassis Paint | 6 Months | Unlimited |
| Corrosion | 6 Months | Unlimited |
| Crossmembers | 5 Years | Unlimited |
| Drivetrain | 2 Years | Unlimited |
| Frame Rails | 5 Years | Unlimited |
| Paint | 1 Year | 100,000 mi/161 000 km |
| Steer Axle ² | 2 Years | Unlimited |

¹Time or distance, whichever comes first

²Steer axle coverage-group applies to glider only.

Warranty Statement & Warranty Coverage Descriptions follow on page two of this document.

The information provided in this document is for general information only and is not offered as customer's warranty.

This coverage may be superseded without notification.

Copyright © Daimler Trucks North America LLC. All rights reserved. Daimler Trucks North America LLC is a Daimler company.

Warranty Coverage Exclusions

Daimler Trucks North America LLC

Warranty Statement

1.00 NEW VEHICLE COVERAGE

The following section outlines Company standard warranty coverages for all Company vehicles, apparatus or trailers or cabs sold and domiciled in the USA (50 states and Washington, D.C.), Puerto Rico, and Canada. This section is also included in the Operator's Maintenance and Owner's Warranty Information Booklet.

1.01 NEW VEHICLE LIMITED WARRANTY

Under this New Vehicle Limited Warranty ("Warranty"), Company warrants that each new vehicle will be free from defects in material and workmanship that occur under normal use within the applicable warranty period, subject to certain limitations and exclusions as specified in this document.

This Warranty covers all components and parts unless specifically covered by other warranties or otherwise excluded by this document.

1.02 LIMITATIONS

This Warranty does not apply to vehicles that are sold or domiciled outside of the United States (50 states and Washington, D.C.), Puerto Rico, or Canada.

This Warranty does not apply to engines, Allison or Twin Disc transmissions, tires, or other components or parts that are not manufactured by Company and that are warranted directly by their respective manufacturers. With respect to the foregoing, Company makes no warranty whether express, implied, statutory or otherwise including, but not limited to, any warranty of merchantability or fitness for a particular purpose.

THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OF ANY KIND WHETHER WRITTEN, ORAL, OR IMPLIED INCLUDING, BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY SPECIFICALLY EXCLUDES ANY OTHER WARRANTIES OR CONDITIONS PROVIDED FOR BY LAW, WHETHER STATUTORY OR OTHERWISE.

COMPANY'S SOLE OBLIGATION UNDER THIS WARRANTY SHALL BE TO REPAIR OR REPLACE, IN COMPANY'S SOLE DISCRETION, ANY DEFECTIVE COMPONENT OR PART. SUCH REPAIR OR REPLACEMENT SHALL BE WITHOUT COST TO PURCHASER WHEN PERFORMED WITHIN THE APPLICABLE WARRANTY PERIOD (TIME, DISTANCE, OR HOUR LIMIT, WHICHEVER OCCURS FIRST).

Purchaser must notify Company within the applicable warranty period, of any failure of the vehicle to comply with this Warranty and Purchaser must, at Purchaser's expense, promptly return the vehicle to an authorized Dealer for inspection and repair or replacement of any defect in material or workmanship occurring within the applicable warranty period.

The vehicle must be maintained and serviced according to the prescribed schedules outlined in the Driver's/Operator's and Maintenance Manuals. Receipted bills and other evidence that required maintenance and service have been performed are required by Company as a condition of this Warranty.

After the Company's obligations under this Warranty expire, all liabilities of Company to Purchaser under this Warranty shall terminate. Repairs made under this Warranty do not constitute an extension of the original Warranty period for the vehicle or for any specific component or part.

To the extent that any provision of this Warranty contravenes the law of any jurisdiction, such provision shall be inapplicable in such jurisdiction, and the remainder of the warranty shall not be affected.

1.03 PURCHASER'S EXCLUSIVE REMEDY

THIS WARRANTY SHALL BE THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY AGAINST COMPANY, WHETHER IN CONTRACT, UNDER STATUTE (INCLUDING STATUTORY PROVISIONS AS TO CONDITIONS AS TO QUALITY OR FITNESS FOR ANY PARTICULAR PURPOSE OF GOODS SUPPLIED PURSUANT TO THE CONTRACT OF SALE), WARRANTY, TORT, STRICT LIABILITY, OR ANY OTHER LEGAL THEORY.

1.04 LIMITATION OF LIABILITY

COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE COST TO REPAIR OR REPLACE, IN COMPANY'S SOLE DISCRETION, THE DEFECTIVE COMPONENT OR PART THAT IN NO EVENT SHALL EXCEED THE FAIR MARKET VALUE OF THE VEHICLE AT THE TIME THE DEFECT IS DISCOVERED.

IN NO EVENT SHALL COMPANY BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, INJURIES TO PERSONS OR DAMAGE TO PROPERTY, LOSS OF PROFITS OR ANTICIPATED PROFITS, OR LOSS OF VEHICLE USE.

Coverage Descriptions

Axles

Coverage includes all factory-installed steer axles; drive axles; tag axles; and pusher axles. Excludes any axle installed by a dealer or body builder.

Drive Axle(s)

Coverage includes axle housing, carrier assembly, differential assembly, power divider, axle shafts, and gaskets and seals. Excludes suspension and torque rod brackets, tie rod ends, wheel and equipment, wiring, yokes, and attaching hardware.

Pusher Axle

A pusher axle is a non-driven, weight-bearing axle that can be raised when not required to bear a portion of the load. Since the pusher axle can be of many different configurations, warranty coverage includes all components included in the individual build specification of each individual application.

Steer Axle

Coverage includes I-beam, steering knuckles, differential on drive steer axle, spindles, kingpins, kingpin bearings and steering arms. Excludes wheel end equipment, tie rod ends, steering linkage components, kingpin bushings, and king pin seals.

Tag Axle

A tag axle is a non-driven, continuous weight-bearing axle. Since the tag axle can be of many different configurations, warranty coverage includes all components included in the individual build specification of each individual application.

Battery

Only Freightliner LLC's private brand-label (Alliance Brand Parts), Mopar (Sterling Buffet only), and Furukawa (STL360 Model only) batteries will be warranted. Any other brand of battery is excluded from Company coverage. Claims for all other brands must be submitted directly to the supplier. Warranty coverage includes the battery assembly only.

Basic Body

Coverage includes body emergency lighting and controls; hinged and rollup compartment doors; body trim; body lighting and controls; body electrical systems.

Basic Chassis

Coverage includes all factory-installed components of the vehicle/chassis that are not excluded elsewhere in the warranty, or by special agreement or described as having a different time, or distance or hours, or listed separately on each new vehicle warranty coverage chart.

Basic Vehicle

Coverage includes all factory-installed components of the vehicle/chassis that are not excluded elsewhere in the warranty, or by special agreement or described as having a different time or distance, or listed separately on each new vehicle warranty coverage chart.

Body Electrical

Coverage includes body wiring harness(es) only.

Body Structure

Coverage includes compartments and body panels; hinged compartment doors; fire pump closure; body frame and sub-frame, if applicable. Excludes surface corrosion caused by chips or scratches.

Body Structure and Corrosion

Coverage includes compartments and body panels; hinged compartment doors; fire pump closure; body frame and sub-frame, if applicable. Excludes surface corrosion caused by chips or scratches.

Brightwork

Coverage includes all factory-installed components with chrome, polished aluminum, or polished stainless steel surfaces. Excludes any damage to bumper, backside of bumpers, and concealed or liner surfaces.

Cab Corrosion/Perforation

Coverage is limited to rust-through or perforation of the cab and integral sleeper structure and sleeper box (if applicable) due to corrosion from within. Excludes all conditions of rust or corrosion that has not resulted in rust-through or perforation as well as surface rust or corrosion caused by non-adhesion. Excludes any damage to the paint such as chips or scratches.

Cab Structure

Coverage includes cab and integral sleeper structural components, structural components of factory installed sleeper boxes (if applicable), sheet metal panels, doors, and hoods. Excludes all bolt-on components including door and hood hinges, latches, guides, and other mounting hardware.

Corrosion

Coverage provides warranty against corrosion to any metal or metal alloy part of the vehicle. Rust or corrosion to specific components and/or caused by certain conditions are excluded from all Company warranty coverage and will not be paid under Basic Vehicle, Cab Structure, Cab Corrosion, or Aftermarket Parts Warranty.

Exclusions to corrosion warranty include, but are not limited to, the following:

- Corrosion caused by general rust (for example, rust on the unfinished backside of a bumper)
- Corrosion caused by rust caused by chips or scratches in the paint or chrome surfaces
- Corrosion caused by high-pressure washing, severe wash solutions, cleaning solvents, detergents, compounds or abrasives used in the environment or corrosive salts and/or chemicals used on the road surface.
- Corrosion caused by acid rain or other industrial fallout
- Corrosion due to improper prevention measures during storage or use

- Corrosion or rust on tone rings, rotors or drums (rotor exclusion does not apply to hydraulic discs with Magna-Coat Rotors)

- Corrosion due to environmental damage (including ocean spray); airborne fallout (includes chemicals, tree sap, etc.); or other atmospheric conditions or other acts of nature

- Corrosion due to improper use, misuse or abuse, negligence, including improper or insufficient maintenance

Gowl Corrosion/Perforation

Coverage is limited to rust-through or perforation of the cowl due to corrosion from within. Excludes all conditions of rust or corrosion that has not resulted in rust-through or perforation as well as surface rust or corrosion caused by non-adhesion. Excludes any damage to the paint such as chips or scratches.

Cowl Structure

Coverage includes cowl structural components, sheet metal panels, and hood. Excludes all bolt-on components including hood hinges, latches, guides, or other mounting hardware.

Crossmembers

Coverage includes crossmembers, gussets, and huck-mounting bolts that attach gussets to crossmembers and gussets/crossmembers to frame rails. Excludes any bolt-on item attached with either conventional or huck bolts.

Driveline

Coverage includes driveshaft tubing, U-joints, yokes, support bearings, and splines.

Drivetrain

Coverage includes transmission, (except Allison transmissions) steer axle(s), drive axle(s), and transfer case. Excludes tag axle(s), pusher axle(s), driveline, and U-joints.

Frame Rails

Coverage is limited to breaking or cracking of factory installed frame rails, frame rail liners, frame rail extensions, and any item(s) factory welded to them. Excludes all bolt-on items regardless if attached with conventional or huck bolts.

Glider

An incomplete vehicle which may be ordered with or without engine and/or major drive train components; warranty coverage includes all components as specified in the specific build specification.

Off Road On-Site Assistance

Coverage is exclusively available for off road vehicles that are prohibited from use on public streets. If this coverage is provided, it will be specifically included in the coverage table as a separate category. Coverage includes on-site assistance and/or equipment transportation to the nearest authorized repairing location for a Daimler Trucks North America LLC warrantable repair.

Paint (Body, Cab, & Cowl)

Paint coverage excludes lack-of-gloss issues on vehicles painted with low gloss colors; the underside of hoods and roof and side mounted air fairings; and any damages to the paint or painted surface such as chips and scratches.

Body Paint

Coverage includes all factory-painted exterior body surfaces. Warranted against orange peel; peeling/delaminating; cracking or checking; or loss of gloss due to cracking, checking or hazing.

Cab Paint

Coverage includes all factory-painted exterior surfaces (except those included in chassis paint coverage). Warranted against orange peel; peeling or delaminating; cracking or checking; or loss of gloss due to cracking, checking or hazing.

Cowl Paint

Coverage includes all factory-painted exterior surfaces of cowl structure (except those included in chassis paint). Warranted against orange peel; peeling or delaminating; cracking or checking; or loss of gloss due to cracking, checking or hazing.

Paint, Chassis (Chassis Paint)

Coverage includes all factory painted surfaces on frame rails, crossmembers/gussets, front and rear bumpers, suspension components, power train components, drivelines, fuel tanks, air tanks, wheel end equipment, tool boxes, battery boxes, access steps, and attaching brackets and hardware. Warranted against peeling or non-adhesion. Excludes U-joints and any damages to the paint or painted surface such as chips and scratches.

Towing/Roadside Assistance

Coverage includes roadside assistance or towing (to the nearest authorized repair location) for a Daimler Trucks North America LLC warrantable repair in a vehicle-down situation that prevents the safe and lawful operation of the vehicle. If this coverage is provided, it will be specifically included in the coverage table as a separate category.

Transfer Case Assembly

Coverage includes housing and all internally lubricated parts.

Transmission

Coverage includes housing and all internally lubricated parts, electric/air shift/control units, valves, gaskets, and seals. Excludes broken synchronizer pins, PTOs, transfer case(s), airlines, gauge senders, yoke(s), clutch and clutch control components including clutch brake. Excludes Allison automatic transmissions and Twin Disc Automatic Transmissions.

Wheel End Equipment

Coverage includes brake components, wheels, hubs, drums, rotors, wheel seals/ bearings, slack adjusters, and attaching hardware.

SUBSECTION B - SPECIAL REQUIREMENTS

1. The successful bidder will complete all documents and / or file all applications necessary to obtain exempt registration and license plates for vehicle(s) covered by this bid from the California Department of Motor Vehicles in the name of the City of Beverly Hills, 455 North Rexford Drive, Beverly Hills, California 90210, before the vehicle(s) are delivered. Ownership Certificate(s), Registration(s) and license plates must be delivered with the vehicle(s).
2. Delivery is an important consideration in award of this bid. Bidder will be strictly bound to his commitments. Delivery credit should be clearly outlined if delivery is not included in the final bid.
3. Vehicle(s) covered by this bid, including all equipment and accessories, must comply with all requirements of the California Vehicle and Federal Motor Vehicle Safety Standards for 1997 vehicles, and safety orders of the California Division of Industrial Safety, including all amendments thereto.
4. Bidder is to state warranty period(s) on all vehicle(s).
5. City shall be the sole and final judge of compliance with bid specifications and reserves the exclusive right to award this bid in any manner it deems to be in the best interests of the City.

SECTION IV - BID FORM

(Must be completed by Vendor)

The undersigned proposes to furnish all materials, supplies, equipment or services set forth herein subject to all conditions outlined in the Bid Document, including the general instructions and information to bidders, at prices indicated below:

Bid Proposal: \$ 232,083.00

Payment Terms: Standard Beverly Hills terms.

Exceptions or Deviations attached (Check appropriate box) YES N/A NO N/A

Delivery: 200-220 days (Number of Days)

Company Name: Braun Northwest, Inc.

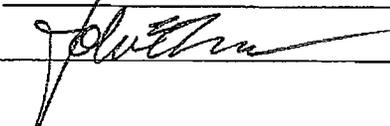
Address: 150 North Star Drive, Chehalis, WA 98532

Telephone: 800-245-6303 Fax: 360-748-0256

Contact Email: sales@braunnorthwest.com, sales@braunnw.com

Person Submitting Bid: John E. Braun
(Print Name)

Title: President

Signature: 

F.O.B.

All prices of the bid shall be F.O.B. destination Beverly Hills, California; and delivery to any point within Beverly Hills shall be without additional charge.

TAX

All bid proposals shall be exclusive of tax; City staff will compute all tax involved when applicable.

ACCEPTANCE OF PROPOSAL

The City reserves the right to accept or reject any and all bids and reserves the right to waive technicalities where such action best serves the interests of the City. The manufacturer of the proposed materials or equipment may be required to acknowledge by written conformation that the minimum requirements of the specifications are included in the Bidder's proposal before the award of the bid.

EXCEPTIONS

Any bidder's exceptions to these terms or conditions or deviations from the written specifications shall be shown in writing and attached to bid form. However, such exceptions or deviations may result in bid rejection.

INSURANCE (applicable to successful bidder who may come into the City)

- (1) **Commercial general liability** coverage at least as broad as Insurance Services Office Commercial General Liability occurrence coverage ("occurrence" form CG0001, Ed. 11/85) with a limit of not less than \$2,000,000 (Two Million Dollars) per occurrence. If the insurance includes a general aggregate limit, that limit shall apply separately to this contract or it shall be at least twice the required per occurrence limit.
- (2) **Business automobile liability** insurance at least as broad as Insurance Services office form CA 0001 (Ed. 1/87) covering Automobile Liability, code 1 "any auto" and endorsement CA 0029 (Ed. 12/88) with a limit not less than \$1,000,000 (One Million Dollars) per accident.
- (3) **Workers Compensation** Insurance as required by the State of California and **employers liability** insurance with a limit not less than \$1,000,000 (One Million Dollars) per accident.

All insurance coverages shall be provided by insurers with a rating of B+; VII or better in the most recent edition of Best's Key Rating Guide, Property-Casualty Edition.

Work on City property covered by a purchase order cannot be commenced until certificates of insurance have been approved.

Please use the official City of Beverly Hills certificate of insurance form (attached). If you use another form, the following requirements must be met to make the certificates acceptable to the City:

| | |
|---|---|
| 1 | name the City of Beverly Hills as additional insured for both GENERAL liability and AUTO liability; and |
|---|---|

| | |
|---|--|
| 2 | Have at least thirty (30) days written notice of cancellation. |
|---|--|

All certificates of insurance must remain current until the purchase order expires or is sooner cancelled.

AFTER THE ACCEPTANCE AND AWARD OF THE BID BY THE CITY COUNCIL UPON RECEIPT OF A WRITTEN PURCHASE ORDER EXECUTED BY A PROPER OFFICER OF THE CITY, THIS DOCUMENT WILL CONSTITUTE THE LEGAL CONTRACT BETWEEN THE CITY AND THE SUCCESSFUL BIDDER.

If your response is "NO BID", please explain below:

N/A

COMPANY NAME: _____

ADDRESS: _____

CITY, STATE, ZIP CODE: _____

TELEPHONE NUMBER: _____

FAX NUMBER: _____

BY: _____

(Print Name)

(Signature)

(Title)

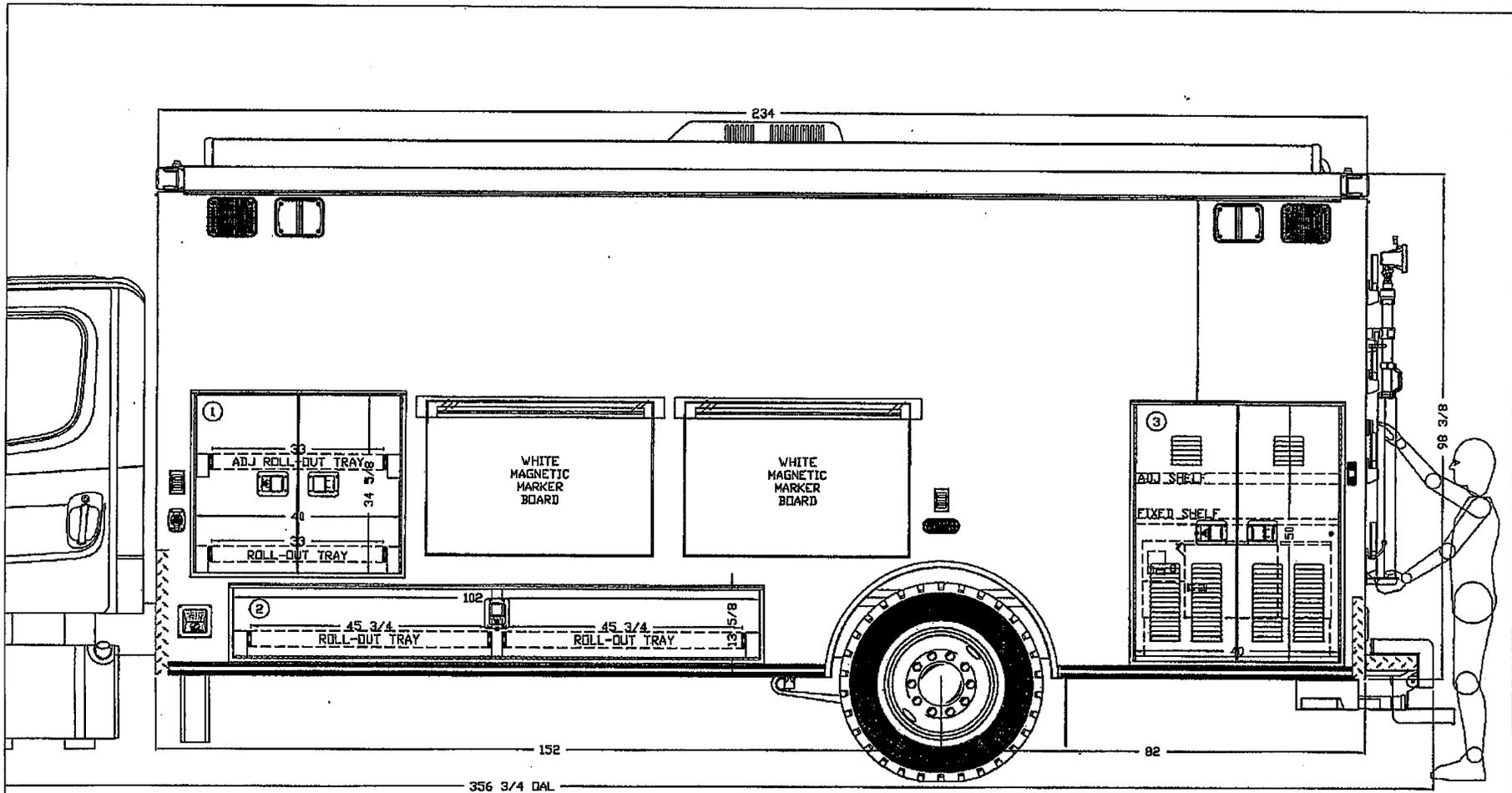
(Date)

PLEASE RETURN TO:

**CITY OF BEVERLY HILLS
OFFICE OF THE CITY CLERK, ROOM 290
455 NORTH REXFORD DRIVE
BEVERLY HILLS, CA 90210**

(Attn: Bid 11 – 28)

(END)

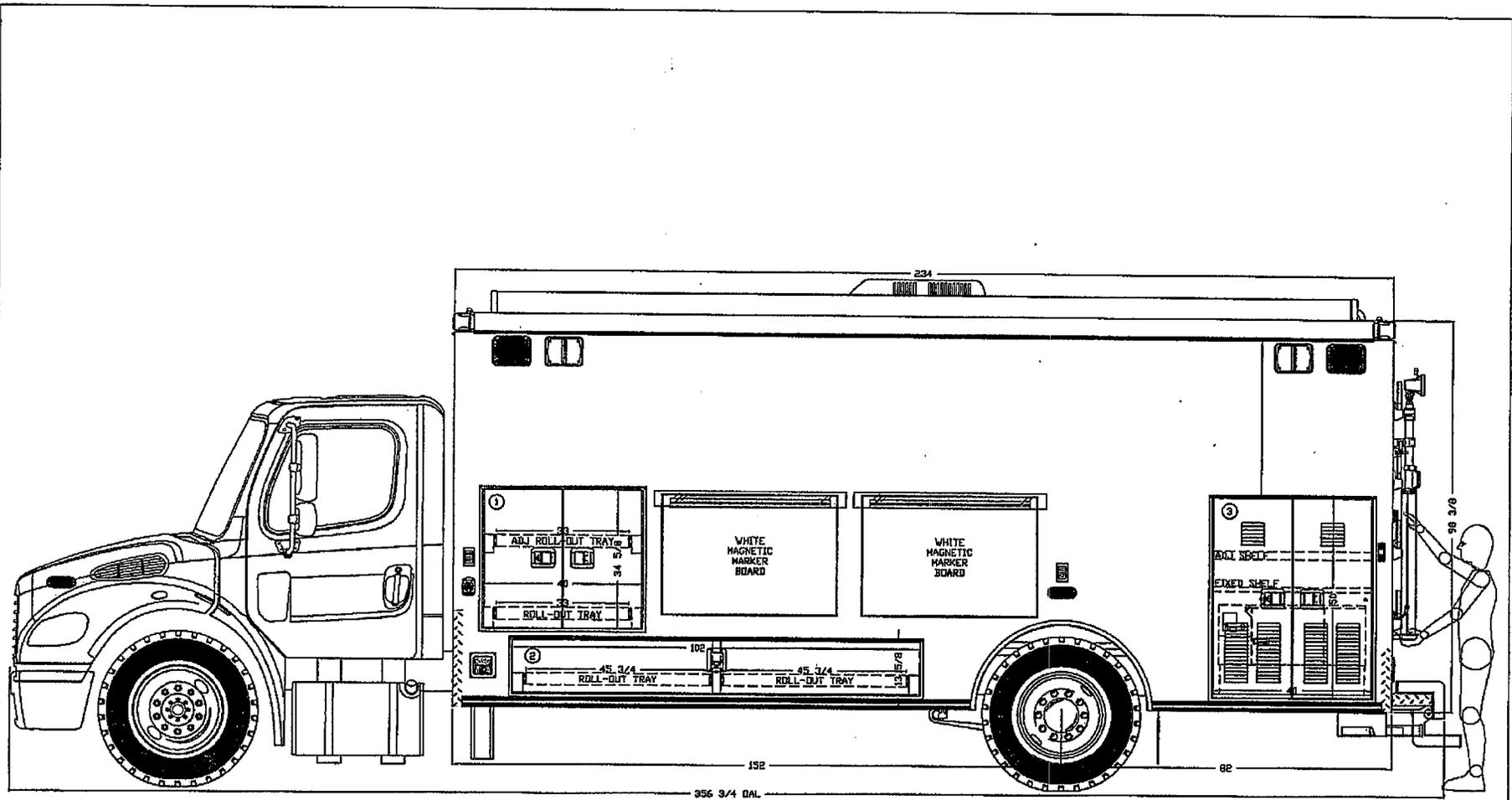


Braun Northwest, Inc.

| | | | |
|------------|------------------|------------|--------|
| Department | SALES | | Rev |
| Dwg. Name | BEVERLY_HILLS1c | | |
| Client | BEVERLY HILLS PD | | |
| Date | 02/09/2011 | Drawing By | R.D.F. |

TITLE: EXTERIOR S/S VIEW

NOTE: DRAWINGS MAY SHOW OPTIONAL EQUIPMENT NOT IN PROPOSAL

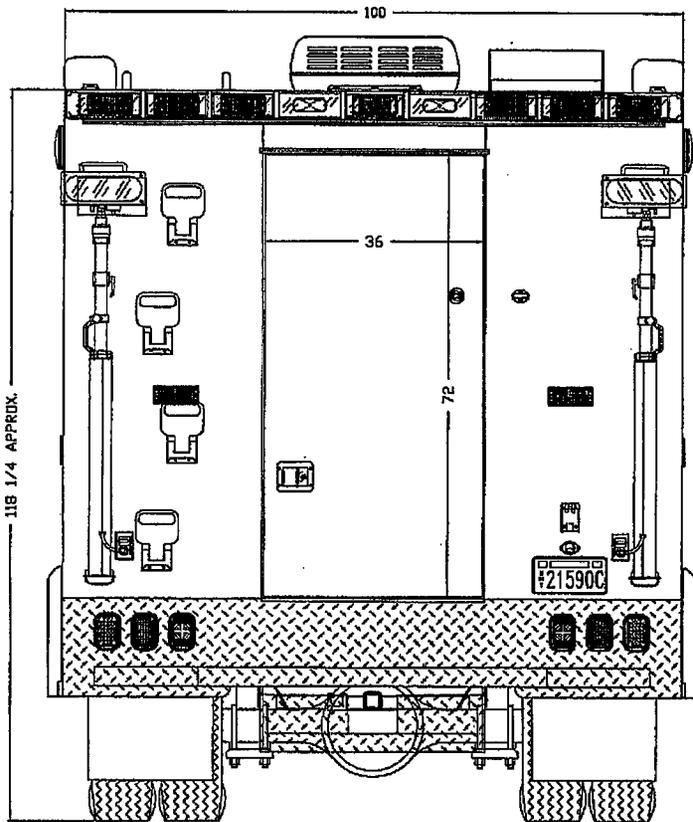


Braun Northwest, Inc.

| | | | |
|------------|------------------|------------|--------|
| Department | SALES | | Rev |
| Dwg. Name | BEVERLY_HILLS1c | | |
| Client | BEVERLY HILLS PD | | |
| Date | 02/09/2011 | Drawing By | R.D.F. |

NOTE: DRAWINGS MAY SHOW OPTIONAL EQUIPMENT NOT IN PROPOSAL

TITLE: EXTERIOR S/S VIEW



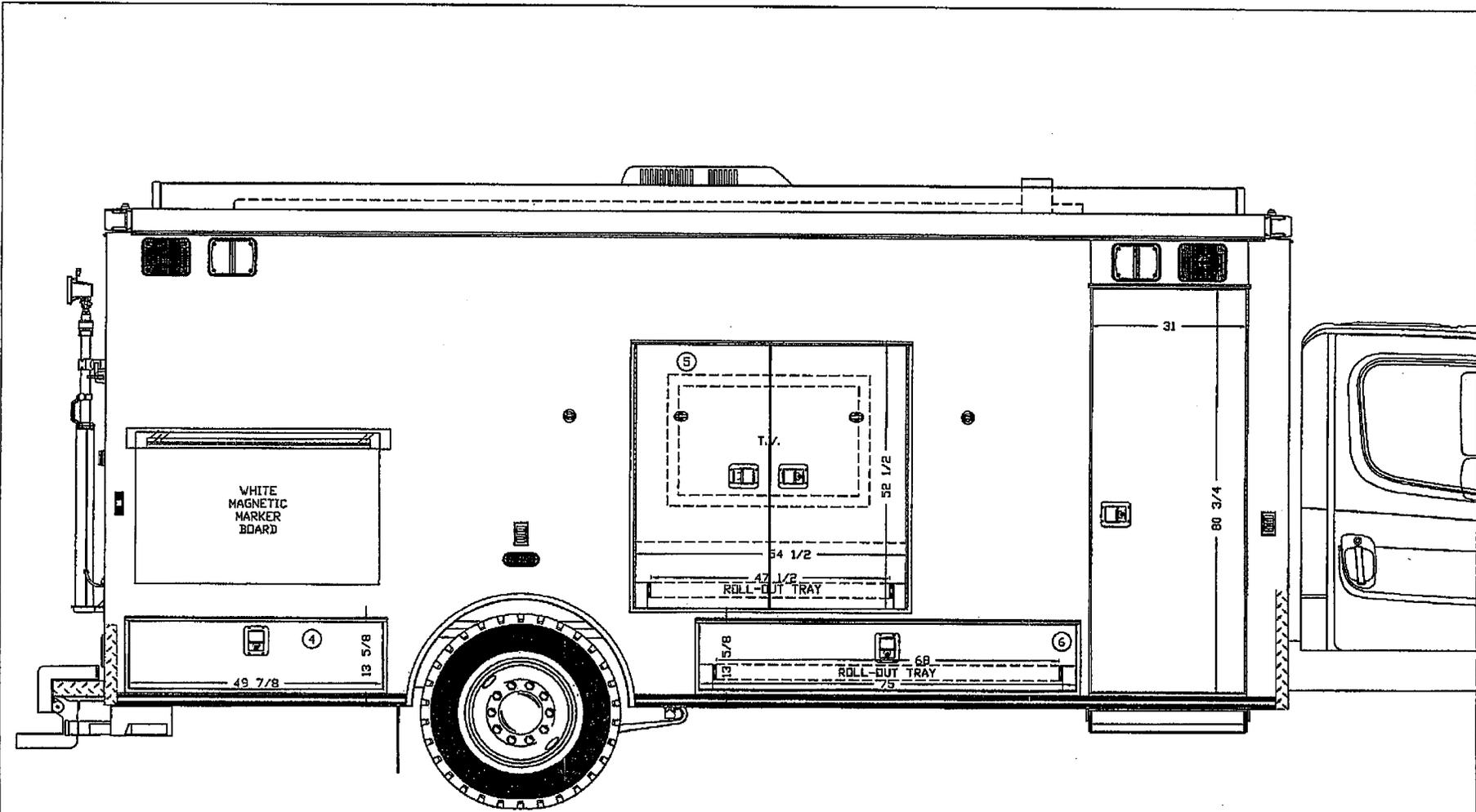
Braun Northwest, Inc.

| | | | |
|------------|------------------|------------|--------|
| Department | SALES | | Rev |
| Dwg. Name | BEVERLY_HILLS2c | | |
| Client | BEVERLY HILLS PD | | |
| Date | 02/09/2011 | Drawing By | R.D.F. |

TITLE:

EXTERIOR REAR VIEW

NOTE: DRAWINGS MAY SHOW OPTIONAL EQUIPMENT NOT IN PROPOSAL

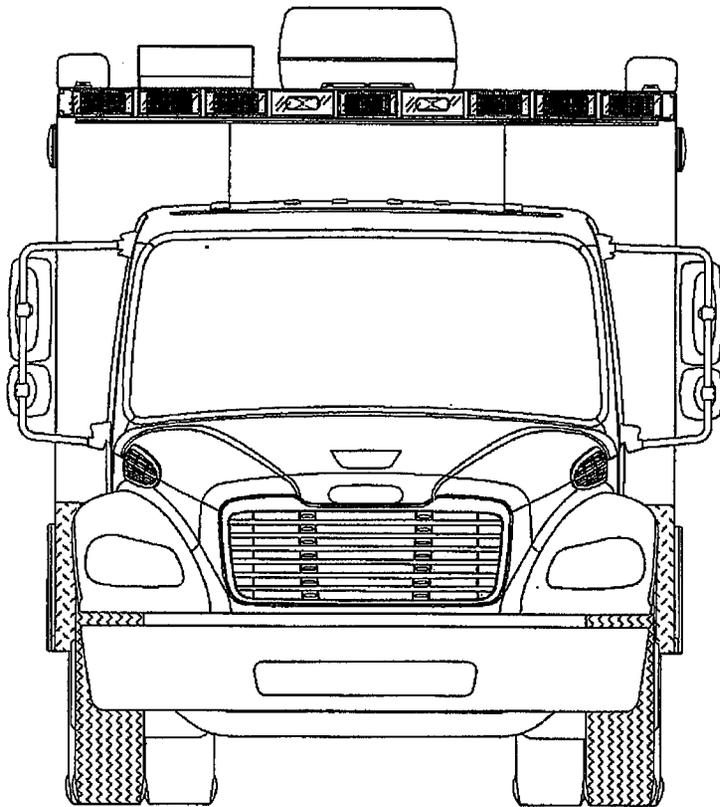


Braun Northwest, Inc.

| | | |
|------------|------------------|-------------------|
| Department | SALES | Rev |
| Dwg. Name | BEVERLY_HILLS3c | |
| Client | BEVERLY HILLS PD | |
| Date | 02/09/2011 | Drawing By R.D.F. |

TITLE: EXTERIOR C/S VIEW

NOTE: DRAWINGS MAY SHOW OPTIONAL EQUIPMENT NOT IN PROPOSAL

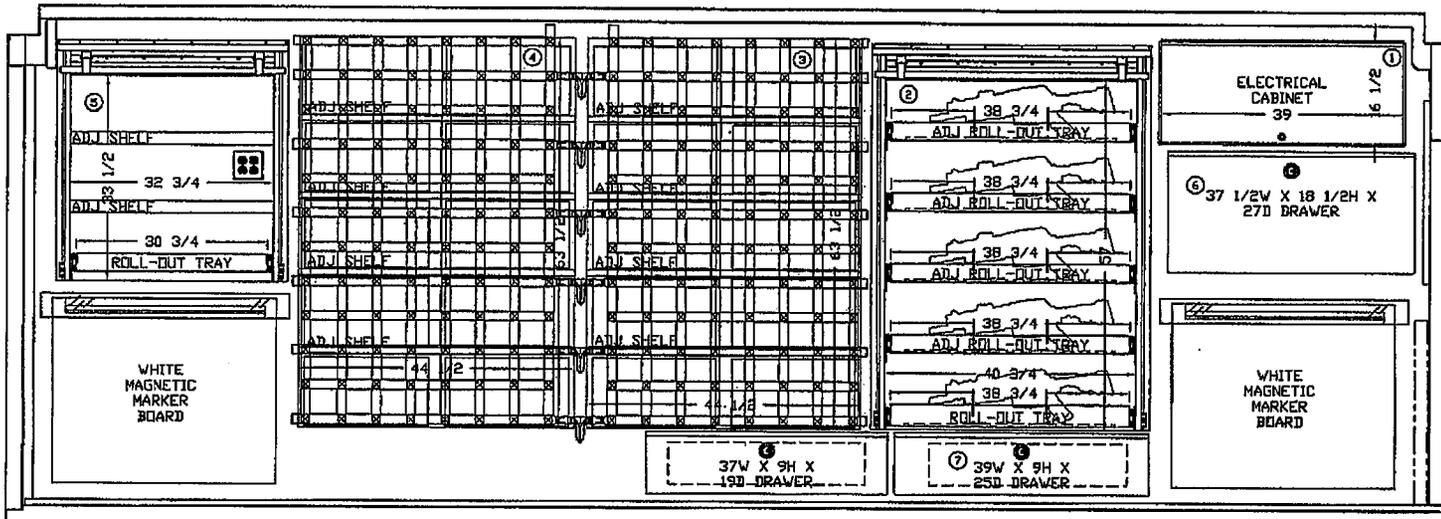


Braun Northwest, Inc.

| | | | |
|------------|------------------|------------|--------|
| Department | SALES | | Rev |
| Dwg. Name | BEVERLY_HILLS4c | | |
| Client | BEVERLY HILLS PD | | |
| Date | 02/09/2011 | Drawing By | R.D.F. |

TITLE: EXTERIOR FRONT VIEW

NOTE: DRAWINGS MAY SHOW OPTIONAL EQUIPMENT NOT IN PROPOSAL

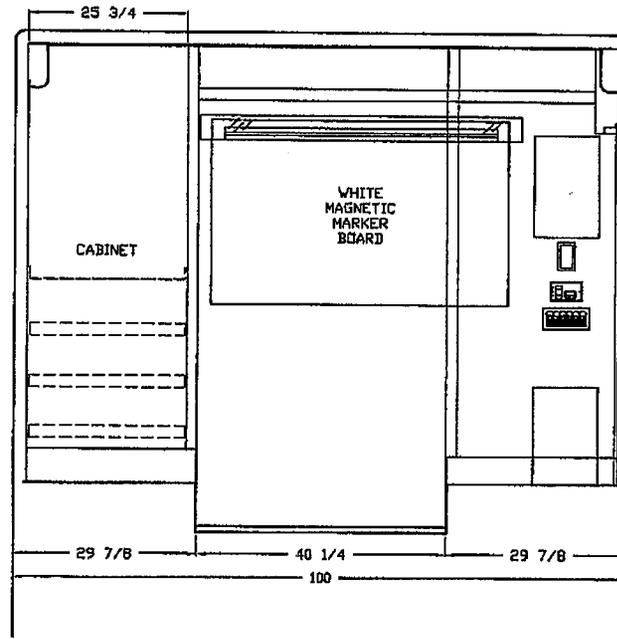
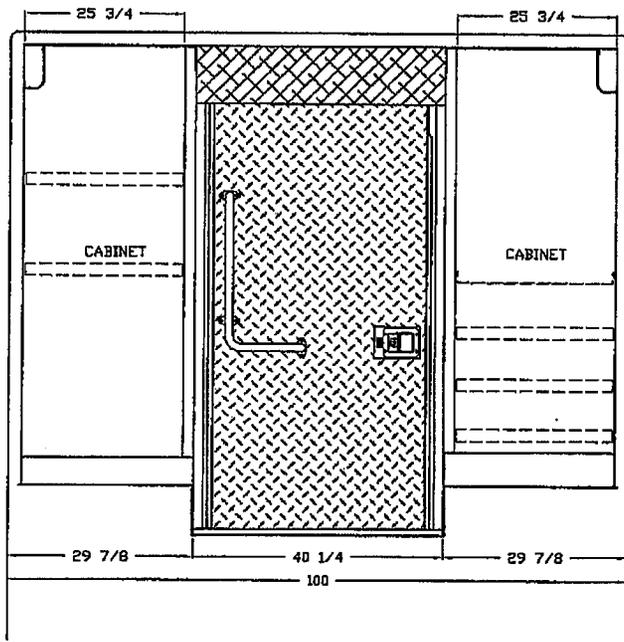


Braun Northwest, Inc.

| | | | |
|------------|------------------|------------|--------|
| Department | SALES | | Rev |
| Dwg. Name | BEVERLY_HILLS.c | | |
| Client | BEVERLY HILLS PD | | |
| Date | 02/09/2011 | Drawing By | R.D.F. |

TITLE: INTERIOR S/S VIEW

NOTE: DRAWINGS MAY SHOW OPTIONAL EQUIPMENT NOT IN PROPOSAL

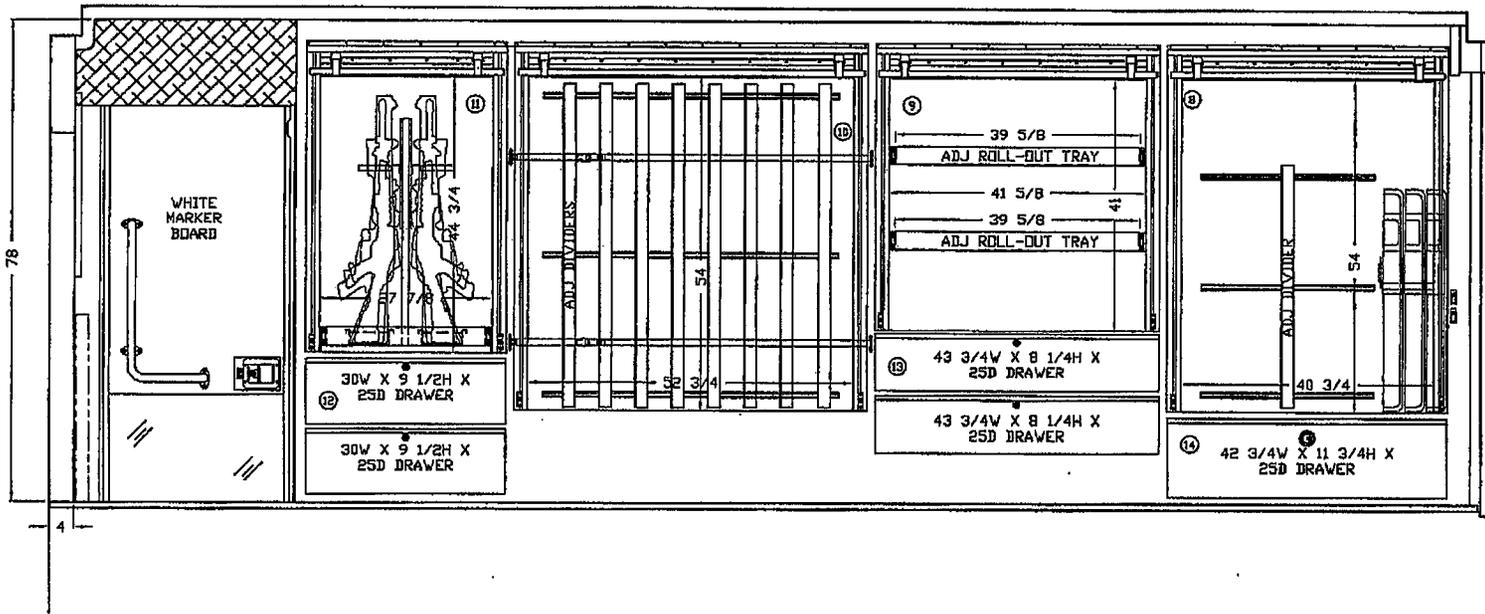


Braun Northwest, Inc.

| | | | |
|------------|-------------------|------------|--------|
| Department | SALES | | Rev |
| Dwg. Name | BEVERLY_HILLS6_Bc | | |
| Client | BEVERLY HILLS PD | | |
| Date | 02/09/2011 | Drawing By | R.D.F. |

TITLE: INTERIOR REAR / FRONT VIEW

NOTE: DRAWINGS MAY SHOW OPTIONAL EQUIPMENT NOT IN PROPOSAL

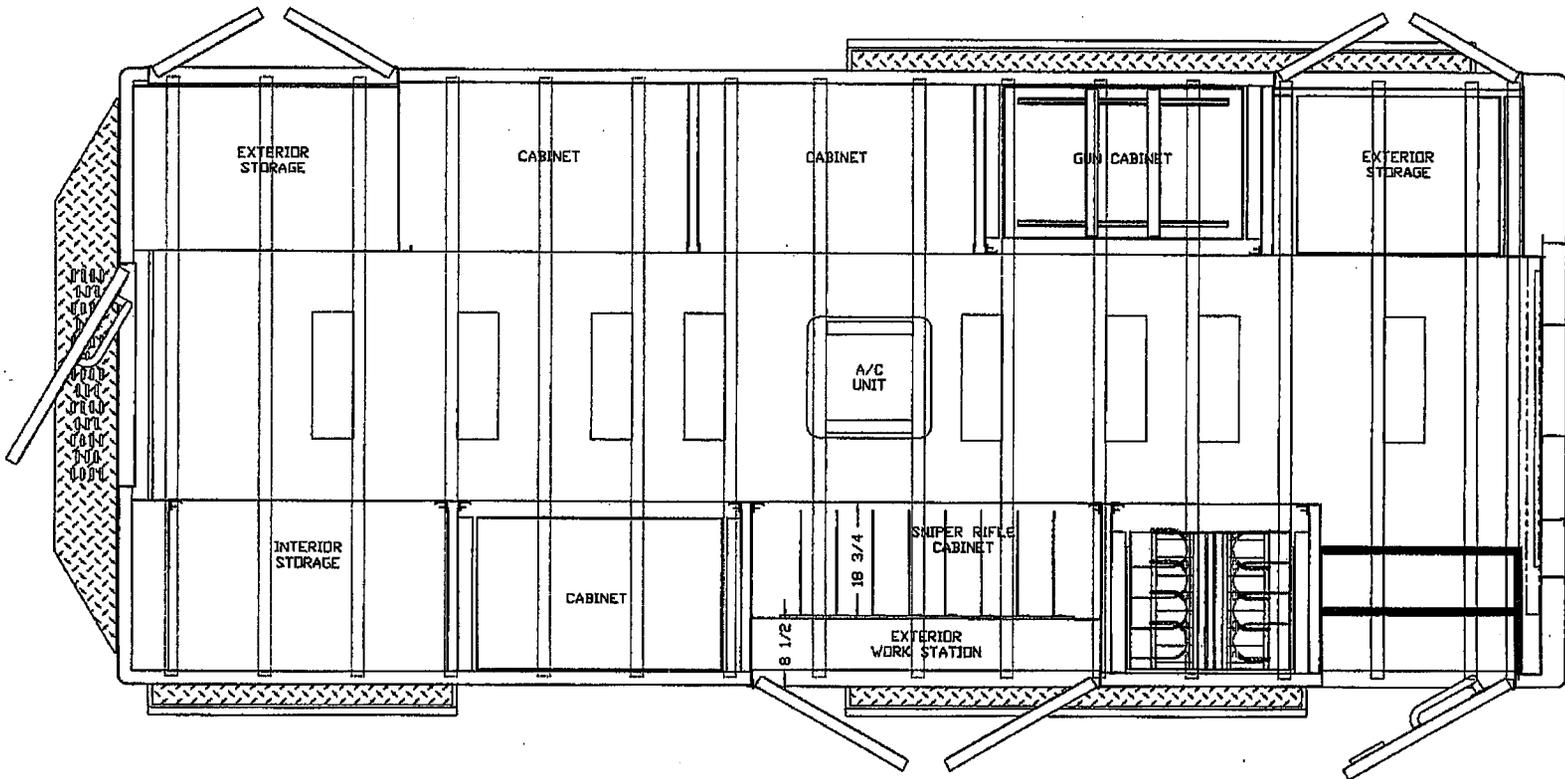


Braun Northwest, Inc.

| | | | |
|------------|------------------|------------|--------|
| Department | SALES | | Rev |
| Dwg. Name | BEVERLY_HILLS7c | | |
| Client | BEVERLY HILLS PD | | |
| Date | 02/09/2011 | Drawing By | R.D.F. |

NOTE: DRAWINGS MAY SHOW OPTIONAL EQUIPMENT NOT IN PROPOSAL

TITLE: INTERIOR C/S VIEW



Braun Northwest, Inc.

| | | |
|------------|------------------|-------------------|
| Department | SALES | Rev |
| Dwg. Name | BEVERLY_HILLS9c | |
| Client | BEVERLY HILLS PD | |
| Date | 02/09/2011 | Drawing By R.D.F. |

TITLE: PLAN VIEW

NOTE: DRAWINGS MAY SHOW OPTIONAL EQUIPMENT NOT IN PROPOSAL