

Do Not Return Via Email or Fax

This is Not an Order

Mailing Address:
P. O. Box 1948
Mobile, Alabama 36633
(251) 208-7434

Purchasing Department
and Package Delivery:
Government Plaza
4th Floor, Room S-408
205 Government St
Mobile, Alabama 36644

READ TERMS AND CONDITIONS
ON REVERSE SIDE OF THIS PAGE
BEFORE BIDDING

Typed by: tajb Buyer002

Please quote the lowest price at which you will furnish the articles listed below

Table with 4 columns: DATE (07/23/2021), BID NO. (5592), DEPARTMENT (Various), Commodities to be delivered F.O.B. Mobile to: (To Be Specified)

This bid must be received and stamped by the Purchasing office not later than: 11:00 AM, Friday, August 20, 2021

Main bid table with columns: QUANTITY (1 EACH), ARTICLES (FIRE SERVICE REHAB/ COMMAND TRUCK), UNIT, UNIT PRICE (Dollars, Cents), EXTENSION (Dollars, Cents). Includes detailed specifications for the truck.

TOTAL

RETURN ONE SIGNED COPY OF THIS BID
IN ENCLOSED ENVELOPE

State delivery time within \_\_\_ days of receipt of P.O.

Firm Name \_\_\_\_\_

Typed Signature \_\_\_\_\_

By \_\_\_\_\_

We will allow a discount \_\_\_% 20 days from date of receipt of goods
and correct invoice of completed order.

1. All quotations must be signed with the firm name and by an authorized officer or employee.
2. Verify your bid before submission as it cannot be withdrawn or corrected after being opened. In case of error in extension of prices, the unit price will govern.
3. If you do not bid, return this sheet and state reason. Otherwise, your name may be removed from our mailing list.
4. The right is reserved to reject any, or all quotations, or any portions thereof, and to waive technicalities if deemed to be in the interest of the City of Mobile.
5. This bid shall not be reassignable except by written approval of the Purchasing Agent of the City of Mobile.
6. State brand and model number of each item. All items bid must be new and latest model unless otherwise specified.
7. If bid results are desired, enclose a self-addressed and stamped envelope with your bid. (All or None bids only)
8. Do not include Federal Excise Tax as exemption certificate will be issued in lieu of same. The City is exempt from the Alabama and City sales taxes.
9. PRICES ARE TO BE FIRM AND F.O.B. DESTINATION UNLESS OTHERWISE REQUESTED.
10. BID WILL BE AWARDED ON ALL OR NONE BASIS UNLESS OTHERWISE STATED.
11. Bids received after specified time will be returned un-opened.
12. Failure to observe stated instructions and conditions will constitute grounds for rejection of your bid.
13. Furnish literature, specifications, drawings, photographs, etc., as applicable with the items bid.
14. Vendor May be required to obtain City of Mobile Business License as applicable to City of Mobile Municipal Code Section 34-50. For Business License inquiry contact the Revenue Department at (251) 208-7461 or [cityofmobile.org/taxes.php](http://cityofmobile.org/taxes.php).
15. If a bid bond is required in the published specifications, see below:  
Each Bid Shall be Accompanied By A **Cashier's Check, Certified Check, Bank Draft Or Bid Bond** For the Sum Of Five (5) Percent Of The Amount Bid, Made Payable To The City Of Mobile And Certified By A Reputable Banking Institution. All Checks Shall Be Returned Promptly, Except The Check Of The Successful Bidder, Which Shall Be Returned After Fulfilling The Bid.
16. Contracts in excess of \$50,000 require that the successful bidder make every possible effort to have at least fifteen (15) percent of the total value of the contract performed by socially and economically disadvantaged individuals.
17. All bids/bid envelopes must have the bid number noted on the front. Bids that arrive unmarked and are opened in error shall be returned to vendor as an unacceptable bid.
18. If successful vendor's principal place of business is out-of-state, vendor may be required to have a Certificate of Authority to do business in the State of Alabama from the Alabama Secretary of State prior to issuance of a Purchase Order. Vendors are solely responsible for consulting with the Secretary of State to determine whether a Certificate is required. See [www.sos.alabama.gov/BusinessServices/ForeignCorps.aspx](http://www.sos.alabama.gov/BusinessServices/ForeignCorps.aspx) . Please note that the time between application for and issuance of a Certificate of Authority may be several weeks.
19. Vendors do not need a City of Mobile Business License or Certificate of Authority from the Alabama Secretary of State to submit a bid, but will need to obtain the Business License and Certificate of Authority, if applicable, prior to issuance of a Purchase Order.

**BID CONTINUATION SHEET**

QUANTITY	ARTICLES	UNIT	UNIT PRICE		EXTENSION	
			Dollars	Cents	Dollars	Cents
	<p align="center">Page 2 of 2</p> <p>All vendors will be required to provide verification of enrollment in the E-Verify program. Additional information may be found at <a href="http://immigration.alabama.gov/">http://immigration.alabama.gov/</a></p> <p>If the successful vendor's principal place of business is out-of-state, vendor may be required to have a Certificate of Authority to do business in the State of Alabama from the Secretary of State prior to issuance of a Purchase Order.</p> <p>Vendors are solely responsible for consulting with the Secretary of State to determine whether a Certificate is required. See: <a href="http://www.sos.alabama.gov/BusinessServices/ForeignCorps.aspx">www.sos.alabama.gov/BusinessServices/ForeignCorps.aspx</a>. Please note that the time between application for the issuance of a Certificate of Authority may be several weeks.</p> <p>Upon notification, vendor will have 10 business days to provide the Certificate of Authority and the E-Verify numbers to the Purchasing Department before award can be completed. (Vendors will possibly need to pay the expedite fee to meet this requirement because application is not sufficient. We must have a copy of the certificate with your Company ID number).</p> <p>Vendors do not need a City of Mobile Business License or Certificate of Authority from the Alabama Secretary of State, nor the E-Verify for certification to submit a bid, but will need to obtain the Business License and Certificate of Authority verification and/or provide the E-Verify Certification, if applicable, prior to issuance of a Purchase Order.</p> <p>State of Alabama Local Vendor Preference Law 41-16-50 (a) and (d) will apply to this purchase.</p> <p>If you have any questions, please feel free to contact the Purchasing Department at <a href="mailto:purchasing@cityofmobile.org">purchasing@cityofmobile.org</a>. Questions are not to be directed to a department. Any answers received not via <a href="mailto:purchasing@cityofmobile.org">purchasing@cityofmobile.org</a> are not official and will not be honored.</p> <p><b>TO BE AWARDED ALL OR NONE</b></p>					
			<b>TOTAL</b>			

**RETURN ONE SIGNED COPY OF THIS QUOTATION IN ENCLOSED ENVELOPE**

**READ ABOVE INSTRUCTIONS BEFORE QUOTING**

Firm Name \_\_\_\_\_

By \_\_\_\_\_

We will allow a discount \_\_\_\_\_% 20 days from date of receipt of goods and correct invoice of completed order.

## SCOPE

The following specifications outline the minimum requirements for a custom manufactured Mobile Rehab/Command Center to be utilized by the Mobile Fire-Rescue Department (MFRD) The Rehab/Command Center will be divided into two (2) distinct areas separated by a pocket door. Area one will have a minimum of two (2) work stations, two (2) equipment racks, storage cabinets and an entrance door. Area two will have a seating area for up to eleven (11) people auxiliary seating for two (2) people, two (2) removable tables, a galley with a sink, floor to ceiling storage cabinet and an entrance door. While all efforts have been made to fully detail the construction materials methods and equipment required to build this vehicle it remains the vendor's responsibility to choose components that will provide maximum performance, service life and safety and not just meet the minimum requirements.

Due to the complexity of the unit vendors must provide detailed specifications. A general statement or letter stating that the vendor meets all specifications will not be acceptable. All submitted specifications must follow the format of this document.

To insure MFRD a source of service and parts over the anticipated life of the apparatus potential vendors must have established a permanency in the industry for a minimum of twenty (20) years. Vendors must include with their proposal a list of fifteen (20) vehicles of similar (or greater) size and complexity built in the last twelve (12) month period. Reference list must include Department name, contact name, contact telephone number, contact email, date of delivery, and exterior vehicle photo. MFRD will be contacting references, if information on provided list is incorrect or named contacts are unreachable, vendors response will be deemed non-responsive. No exceptions.

The MFRD will not make a down payment, prepayments or progress payments. No exceptions.

Vendor must be awarded ISO 9001:2008 certification and must include a copy of their certification certificate with response. ISO certification must be for design, fabrication, integration, upfit and retrofit of emergency response and commercial specialty vehicles. Additionally the ISO certificate must list the full address of all facilities that are covered by the certification and the vendor will be required to build the vehicle at the listed facilities. No exceptions to any of the ISO requirements.

Prototype and/or demonstrator vehicles will not be accepted under any circumstance. Additionally the body is to be a standard commercially available production model and may not include any proprietary construction techniques or components. No exceptions.

Vendor must stock a complete line of special service equipment and parts for this apparatus. Vendor must be able to supply 90% of parts required to maintain this vehicle within 24 hours and have the balance available within 72 hours. Note: MFRD reserves the right to request certain items be shipped at vendor's expense to verify ability to comply. Failure to respond as stated will be cause for rejection.

Brand names are used to establish minimum standards. If an alternate brand or model is specified, equivalency must be demonstrated. All exceptions are to be listed on a separate sheet of paper with reasons for exceptions. If an item is to be purchased, rather than manufactured by the vendor, appropriate literature demonstrating equivalency must be provided. Failure to demonstrate equivalency will be cause for rejection.

In order to fairly evaluate each vendor's technical ability and design capability, drawings are to be provided. All prints submitted will be on the same size paper and to the same scale.

CAD prints are preferred.

The drawings are to be provided as follows:

- Interior floor plan (overhead)
- Right hand section view interior
- Left hand section view interior
- Appropriate section views interior
- Driver and passenger view exterior
- Front and rear view exterior
- Roof top view exterior

In addition to the drawings each vendor must include a payload calculation work sheet showing the estimated as built front axle, rear axle and total vehicle weight of the proposed vehicle.

## **SPECIFICATIONS**

- 1 NEW Ford F59 Stripped Chassis (current model year)
  - Engine: 7.3L OHV 16 valve V-8 gasoline engine
  - Transmission: TorqShift 6-speed automatic w/OD
  - GVWR: 22,000 lb Payload Package
  - 5.38 Axle Ratio

- HydroMax power brake assist
- 4-wheel ABS
- 8,000 lb front GAWR
- 15,000 lbs rear GAWR
- Tires: 245/70R19.5G BSW Highway
- Wheels: 19.5" x 6.75" Steel (6)
- 4-wheel anti-lock braking system
- Air Conditioning Prep Package
- Daytime Running Lights
- 50 State Emissions System

1 Spring upgrade installed on rear suspension.

**CHASSIS WARRANTY:**

- Basic 36 month/36,000 miles
- Powertrain 60 month/60,000 miles
- Corrosion Perforation 60 month/unlimited mileage
- Roadside Assistance 60 month/60,000 miles

1 Extend Ford's standard chassis warranty to 7 years/ 150,000 miles

1 US DOT triangle reflector kit with three (3) triangles, for compliance with FMCSA regulations. Includes plastic storage case. Kit will be shipped loose in the vehicle.

1 Class III receiver hitch (ball mount and ball not included).

- Reese Brakeman® IV digital electronic trailer brake control
- 7 pole blade style trailer connector.

1 Stainless steel wheel liners with braided stainless steel valve stem extenders.

## Rehab truck BODY:

- 1
  - All aluminum step van body.
  - Driver sedan door with slider window, door skin shall be chemically bonded to door frame structure reducing the amount of rivets required. Door shall have continuous stainless steel piano hinge and two (2) nylon straps.
  - Passenger sedan door with slider window, door skin shall be chemically bonded to door frame structure reducing the amount of rivets required. Door shall have continuous stainless steel piano hinge and two (2) nylon straps.
  - Sedan doors shall have a 0.125" aluminum tread plate step well for 18" skirt depth.
  - Sedan doors shall have black non-skid tape on all door entry sills.
  - Sedan doors shall have polished aluminum TriMark flush mounted locking hardware with self-aligning rotary latch and matching key locks. Outside door handles not to exceed 50" from ground.
  - Aluminum alloy double H wall beam, 6005-T5 alloy, 3" x 3" wide at the base, 1.5" wide at the top, 0.125 wall thickness. Studs feature machined wire pass-throughs, and raised adhesive control features on base.
  - I-beams shall be chemically bonded to sidewalls eliminating the need for additional rivets. Buck-rivets will be used to fasten the top, bottom and rub rail. Use of two-sided tape is not acceptable.
  - Body shall have 0.125" strain-hardened aluminum alloy 5052-H36 side panels. The upper panels shall be free of rivets allowing for smooth graphics application.
  - Skirt supports, 1.5 x 1.5 x 0.125 angle to reinforce skirt edge and hold bottom edge in a straight line. 0.188 x 1.00" flat braces placed at 4' intervals and riveted to lower wall angle and floor to maintain sidewall skirt rigidity.
  - Fender flares, 1.38" x 2.25" x 0.090" roll formed and radiused 5052-H32 aluminum sheet, mechanically fastened to wheel opening. Edges sealed against moisture.
  - Lift-up molded fiberglass hood with chrome grill insert. Hood shall have integrated headlamps and turn signal indicators and dual assist gas charged lift shocks. The use of mechanical assist springs is not acceptable.
  - Extruded aluminum floor with interlocking planks, 1.88" high x various widths, 0.125" top surface. 6005-T5 alloy and temper. Heavy-duty thick-wall extruded planks fore and aft of all floor cutouts and every 5th plank in all other areas. Planks made of 6005-t5 alloy and temper, 0.250" thick top surface.
  - Bright polished front bumper.
  - Tinted safety plate glass windshield with driver and passenger sun visors.

- Full width 12" deep heavy-duty aluminum rear bumper with center step, painted to match the body.
- Integral cab air conditioning and heating system with dash controls.
- Velvac heated remote control rear view mirrors with dash controls. Upper mirror has 62-sq.in. of flat surface and lower mirror has 30-sq.in. of convex surface. Mirror has a fold-away arm.
- Driver seat shall be Seats Inc. Magnum 200 mechanical suspension seat on fixed pedestal. Seat shall be covered in black cloth and have arm rests, lumbar support, tilt back and 3-point seat belt.
- Passenger seat shall be black jump seat with 2-point seat belt.
- Intermittent windshield wiper/washer with single heavy-duty windshield wiper motor.
- Custom front wheel cutouts for tires.
- Rear frame-mounted tow eyes extending past body.
- Aluminum engine box cover with acoustical and thermal insulation. Black molded ABS composite engine box overlay.
- Acoustical and thermal insulation with heat shield on exterior fire-wall.
- Full length skirting. Skirt shall extend 18" down from the bottom of floor extrusions.
- Dash shall be vacuum formed ABS composite with integrated control pod located left of dash.
- All clearance and side marker lights to be LED.
- Standard structural warranty of 5 years or 50,000 miles and standard component warranty of 12 months or 12,000 miles.
- The vehicle shall be fully sanded on all exterior surfaces with no more than 150 grit to assure removal of imperfections in metal surface. All aluminum shall be chemically etched and primed prior to painting. Base body color shall be oven baked and painted to commercial truck standards.

- 1 32" wide aluminum sedan door installed above floor. Includes 21.5" wide x 25.5" high fixed window. Door shall have continuous stainless-steel piano hinge, two (2) nylon door straps and an aluminum drip rail.
- 3 Exterior heavy-duty knurled aluminum grab handle and chrome plated stanchions installed at entry door.
- 3 Automatic LED courtesy light at entry door.
- 2 Lippert Treadlite 24" wide - single - automatic electric steel entry step with LED ground light. Step mounted under entry door. Step light will be tied into courtesy light defeat.



- 1 Flip-down aluminum step on rear bumper with Diamondback step surface and stainless-steel rails and bolt on mounts. Step shall have slots in rails for securing step in stow and down position.
- 1 Entire underside shall be undercoated. Includes chassis, floor extrusions, step wells and aluminum compartments.
- 1 Rear mud flaps with anti-sail brackets.

#### PAINT / GRAPHICS:

Body paint base color shall be single color base coat / clear coat nonmetallic paint from the roof line down. Note: Paint will be a commercial quality paint job.

Paint Color: Red

#### DRIVER / PASSENGER CAB AREA:

- 1 Walk-in van custom cab area finishing.
  - Cover cab doors with aluminum panels powder coated black.
  - Heavy-duty rubber grab handle on each door.
  - Panels covered with vinyl or fabric above driver and passenger doors.
  - Vehicle height sign on dash.
  - Insulated black rubber mat in driver and passenger toe plate area.
  - Insulate walls in kick plate area and install black carpeted panels.
  - Vehicle shall have a Final Stage Vehicle Certification and Altered Vehicle Certification as required by Federal Motor Vehicle Safety Standards (FMVSS) 49 CFR Part 567.5 and 567.7
  - Payload sticker in cab area with vehicle axle load ratings and available axle payload as built.
- 1 Work area on passenger side covered with laminate to match rear countertops and trimmed with vinyl T molding.
- 1 Custom fabricated console to house electrical distribution components and control panels shall be located in the overhead console above the windshield. The entire console shall be constructed of 3/4" plywood. The face shall be finished with laminate the bottom shall be covered with vinyl.
- 1 Red/Clear LED dome light with 3-position switch, red/off/white.
- 1 Color back up camera system with 7" LCD monitor and day/night camera. Camera includes a microphone for audio commands from a spotter to the driver during backing operations.
- 1 AM/FM stereo with Bluetooth and one (1) pair of 6" x 9" speakers.

## WALLS, CEILING AND FLOOR:

Insulate walls with a minimum of 2-1/2" of fiberglass insulation. Cover interior body side posts with 1/2" plywood sub wall.

Cover sub wall with smooth finish Kemlite 0.075" fiberglass reinforced plastic (FRP) lining. Wall covering shall be a continuous piece front to back, no seams acceptable.

Insulate ceiling with a minimum of 2-1/2" of fiberglass with an R-11 rating.

Cover interior roof supports with 1/2" plywood.

Cover sub ceiling with Veelok 17-oz. ribbed loop pile fabric.

Floor underlayment to be 5/8" exterior grade tongue and groove structural plywood, 6 ply, face veneer plugged and sanded.

Lonseal Loncoin II Flecks non-skid commercial grade PVC flooring. The flooring shall be continuous, one piece full length, full width, no seams.

Vinyl cove molding (mop board) at base of wall, 2-1/2" high. Installed where required.

- 1 Flush pocket door installed on heavy-duty aluminum track with two (2) three-wheel roller trucks. Pocket door shall have recessed handle, soft open, soft close, magnets to hold the door in open position, magnets to hold door in closed position and safety strap for travel. Pocket doors required to be flush with door pocket when open to provide full clear opening.

No exceptions.

All bulkheads shall be covered with Kemlite 0.075" FRP. Trim exposed edges of bulkheads with rounded anodized aluminum trim where applicable.

- 1 Cover load space door with powder coated aluminum panel with heavy-duty rubber grab handle.

Interior window covering will be a mini blind. Powder coat color will be black.

## GALLEY / LAVATORY:

- 1 GE 1.1 cu.ft. 950-watt microwave oven. Model JES1145DMBB
- 1 Keurig Coffee maker. K475
- 1 Electric galley water system. Includes:
  - Sink.
  - Electric pump water system.
  - Gooseneck Deck mounted centerset faucet.
  - Fresh water tank installed in cabinet below sink.
  - Gray water tank installed in cabinet below sink.

- 1 Pelican™ 95qt Elite Cooler, Color: White  
Cooler Assembled Product Dimensions (L x W x H) 37.75 x 20.00 x 25.00 Inches  
Locate cooler in exterior compartment.

SEATING:

- 2 Space Air Grid 55-38N17 black office chair with arm rests, five caster spider base, and adjustable height.  
Fabricate and install fixed bench seating with removable cushions Benchseat cushions shall be covered in heavy-duty vinyl.  
Fabricate and install flip-down bench seating Bench seat cushions shall be covered in heavy-duty vinyl. Bottom seat cushion will be installed on Zico Quic-Seat® fold down spring loaded seat brackets.

BENCH SEAT REQUIREMENTS:

- Foam for seat backs and bottoms shall be firm density.
  - All bench seating material must meet Federal Motor Vehicle Safety Standards part 571.302 Flammability of Interior Materials.
  - Material corners shall be squared or angled to fit precise cut of foam.
  - Foam shall be bonded to plywood backer with industrial grade adhesive.
  - Attachment of fabric/vinyl to backer shall utilize industrial grade upholstery staples.
- 11 Seat belt 2" Lap with chrome lever, black.

CABINETS:

- Custom fabricated aluminum cabinets located as shown on drawing. Cabinet specifications:
- Base cabinets constructed of 0.080" powder coated aluminum with anodized aluminum frames.
  - Base cabinet doors are double shell, formed from a single sheet of 0.080" aluminum, with a 0.040" aluminum door back attached.
  - Overhead cabinets constructed of 0.064" powder coated aluminum with anodized aluminum frames.
  - Overhead cabinet doors are double shell, formed from a single sheet of 0.064" aluminum, with a 0.040" aluminum door back attached.
  - Overhead cabinet doors swing up and gas spring lift supports.
- 4 Gas spring lift supports on overhead cabinet door.
  - 4 LED light under overhead cabinet.

- 2 Magnetic dry erase board framed in aluminum. Includes aluminum clip frame for easy board replacement, sized as required.
- 4 FRP shelf up to 24" wide with 2" lip at front edge.  
Closet shelves shall be infinitely adjustable using mini B-line track and hardware.  
Countertops shall be covered in 0.040" Wilsonart laminate. All exposed edges shall be covered with heavy duty flexible PVC T-molding.
- 2 Removable conference table covered in 0.040" Wilsonart laminate. All exposed edges shall be covered with heavy duty flexible PVC T-molding.
- 2 Triple pedestal legs for removable conference table.
- 2 Storage for a removable table.

**HVAC SYSTEM:**

- 1 Fan-tastic Vent model 1450 3-speed reversible 12" power roof ventilator.
- 2 Ducted Coleman Polar Mach 8 series low profile air conditioner with thermostat. Includes:
  - 15,000 nominal Btu/hr air conditioner with condensate pump.
  - Chill Grille Assembly with 5,600 Btu/hr heat strip
  - Wall mounted thermostat (white)

**AC ELECTRICAL SYSTEM:**

- 1 Power Tech 12-kW 120/240Vac liquid-cooled gasoline generator, #17010070, installed in a custom fabricated compartment. Generator features:
  - Prime Power (100% output 24/7 at up to 70°F and 500ft elevation)
  - USTC Certified Manufacturer
  - Warranty: 2 years from date of purchase, or 3000 hours whichever comes first, or 36 months from the date of manufacture.
  - Sound reduction enclosure
  - Four point mounting system
  - Four-cycle water cooled gasoline engine
  - Radiator cooled, direct mounted and protected enclosure
  - High-coolant temp and low oil pressure shutdown sensors
  - Spin-on oil filter and in-line fuel filter
  - Single side and bottom service

Compartment shall be constructed to the following specifications:

- Compartment shall be constructed from 0.187" aluminum with all welded seams.
- Compartment shall have 0.125" aluminum 2" box pan doors and 0.125" aluminum frames.
- Door frames shall be riveted to the body and welded to the compartments.
- Doors shall have stainless steel hinges attached to the doors and door frames with stainless machine screws.
- Doors shall have slam latches and flush mounted handles.
- Doors shall have 0.100" aluminum treadplate panels on interior surfaces.
- Doors shall be held open in a 90° position with gas charged lift/support cylinders.
- Doors shall be sealed with industrial grade neoprene gasket.

NOTE:

Generator exhaust shall be routed to the street side of the vehicle.

Insulate generator compartment with an additional layer of sound absorbing insulation

15 2" exhaust ventilation hose for generator, per foot.

1 ACData surge suppressor for protection of entire AC power system.

Product features:

- UL listed: UL1449 3rd Edition
- LED visual verification of status

1 50A-120/240Vac and 12Vdc combined electrical control panel with the following features:

- Generator and shore power main breakers
- Eight (8) AC UL listed magnetic/hydraulic branch circuit breakers with LED indicators
- Twelve (12) DC UL listed magnetic/hydraulic circuit breakers with LED indicators
- Digital AC meters: voltage, frequency amperage
- Digital DC voltmeter
- Generator stop/start switch, generator hour meter

120Vac auxiliary control panels as required with UL listed magnetic/hydraulic circuit breakers and LED indicators.

1 Kussmaul Auto Eject 20, 20A-120Vac shore power inlet with 25-ft. 20A-120Vac shore power cord. #091-20WP-120RD.

1 Marinco 50A-125/250Vac shore power package including:

- Waterproof shore power inlet with cap
  - 50-ft. 50A-125/250Vac shore power cord
  - 6-ft. 50A-125/250Vac pigtail
- 7     20A-125Vac duplex receptacle with dual USB charging ports. Receptacle is not dedicated to any installed equipment.
- 1     20A-125Vac GFCI duplex receptacle. These receptacles are not dedicated to any installed equipment.
- 4     20A-125Vac exterior GFCI duplex receptacle.

#### AC WIRING REQUIREMENTS:

- All AC main wiring shall be stranded THHN wire and run in non-metallic Carlon Carflex liquid tight conduit.
- All AC branch circuit wiring shall be stranded THHN wire (AWG 12 minimum) and run in non-metallic Carlon Carflex liquid tight and Carlon Flex-Plus blue ENT conduit.
- All electrical circuits and appliances shall conform to applicable national electrical codes.

#### DC ELECTRICAL SYSTEM:

- Four (4) Lead acid deep-cycle 6Vdc batteries. Batteries shall be installed underbody in slide out weather resistant aluminum compartment. Compartment shall have box pan door with slam latch, flush mount handle, key lock and Kwikkee heavy-duty slide assembly. Two (2) batteries will be separated for auxiliary equipment (2.2 hours of capacity @ 75-amp discharge rate) and two (2) batteries will be for communications equipment (2.2 hours of capacity @ 75-amp discharge rate). Battery data assumes a usable voltage range of 13.6 to 10.5 volts.
- Two (2) electronic converter/chargers, 60 amp minimum output each. Converter/charger features:
  - Charges three banks of batteries at the same time.
  - UL listed for safety.
  - Manual reset circuit breaker.
  - Reverse battery protection.
  - Electronic current limiting.
  - High voltage protection.
- One (1) master disconnect switch to control the auxiliary battery systems.
- 12Vdc control panel with seven (7) UL listed magnetic/hydraulic circuit breakers with red LED indicators and 12Vdc digital voltmeter.
- 12Vdc auxiliary panels with UL listed magnetic/hydraulic circuit breakers as required.

- 12Vdc auxiliary digital voltmeter to monitor the communications battery system.
- 1 Battery combiner automatically combines the battery banks during charging and isolates when no charging sensed on either bank. A three position control switch allows an operator to manually combine or separate batteries, to jump start engine or troubleshoot a failure.
  - 19 Light, Orion 6" LED, neutral white with polished bezel.
  - 6 Whelen C9 Series SurfaceMax LED Scene Light. 12VDC with chrome flange, model number C9SL.
  - 2 Whelen PELCC LED light with chrome housing.

#### 12VDC WIRING REQUIREMENTS:

- 2-gauge minimum copper stranded battery cable shall be used for 12Vdc main supply lines. All cable runs shall be full length, no splices. All cable terminals shall be staked and soldered. All cable shall be enclosed in convoluted polyethylene tubing and the ends of the cable shall be sealed with color-coded shrink-wrap identifying the function of the cable.
  - All added electrical branch circuits shall be protected from over-current by resettable circuit breakers appropriately rated for the load. Only circuit breakers shall be used in the installation of added electrical branch circuit wiring (plug type fuses are unacceptable).
  - Circuit breaker functions shall be identified by engraved or printed labels.
  - All added wiring for load runs of AWG 10, 12, 14, and 18, shall conform to MIL-W-16878/2 and/or UL1007/1569"
  - All added wiring for load runs of AWG 8, shall conform to MIL-W-16878/3 and/or UL1028
  - Wire terminals for added circuits must conform to MIL-T-7928. Terminals shall be insulated, insulation grip, TYPE II, CLASS 2 and shall be crimped with tooling recommended by the terminal manufacturer.
  - All wiring shall be numbered or lettered on 6" centers minimum.
  - Wiring shall be protected from chafing and abrasion with convoluted polyethylene tubing (wire loom) as required.
  - Where wire passes through sheet metal, bulkheads and structural supports, plastic grommets shall be used to protect both wiring and wire looms.
  - All wire bundles shall be tied with trimmed nylon ties.
- Care must be taken in the installation to avoid the engine manifold, engine exhaust, and muffler, which could expose the wiring to severe overheating during long periods of operation. Proper insulation and heat deflection panels must be installed in such areas.
- A high-current 12Vdc system wiring schematic shall be provided.
  - These are the minimum acceptable 12Vdc wiring requirements.

#### EMERGENCY LIGHTING / SIRENS:

- 1 Whelen CenCom Carbide amplifier control module 3 selections control head 21 push button.  
Vendor to wire for lights and MFRD will program after delivery.
- 1 Whelen SA315P high performance, multi-port 100 watt speaker with Whelen SAK1 mount.
- 1 Whelen TAM85 Low Profile Traffic Advisor with eight 500 series TIR6 Super-LED lamps.
- 2 Strobes N' More E64 Flood/Warning LED Stick, Red/ Flood. Dimensions: 20.75"x 1.57"x2.17"  
(LxHxD)
- 1 Fenix Fusion 800 dual color light stick. Color: Red/White/ Red/White Red/White.  
Dimensions:37.46in x 1.3in x:2.25in (LxHxD)
- 6 Fenix Down LUX 7x3 Flood light with Chrome Bezel, Dimensions (with bezel) 3.75" x 8" x 1"
- 4 Fenix WIDE LUX 6 X 4 surface mounted with Chrome Bezel, Dimensions (with bezel) 4.75" x 7.05" x 1"
- 10 Whelen M9 series Linear Super-LED lighthouse with internal flasher, RED LED's with CLEAR outer lens. Includes chrome flange.
- 1 Whelen M9 series Linear Super-LED lighthouse with internal flasher, WHITE LED's with CLEAR outer lens. Includes chrome flange.
- 1 Custom fabricated bracket to mount M9 series light above windshield, painted to match body.
- 4 Whelen C9 Series SurfaceMax LED Scene Light. 12VDC with chrome flange, model number C9K Split top RED / AMBER bottom

**AUDIO / VIDEO:**

- 2 Samsung UN43TU8000FXZA- 43" LED Smart TV (or current model) with wall mount bracket.  
Product features:
  - Resolution 3840 x 2160
  - Component, RF
  - (3) HDMI, (2) USB
  - Sound Output (2) Speakers
  - DTV Tuner/ATSC / Clear QAM
  - Wi-Fi Ready, Smart TV
  - Dimensions: 37.9" x 22" x 2.4" (W x H x D), weight 17.9 lbs
- 1 JACK® model OA8500 Digital HDTV Antenna + Mount with SureLock™ DTV Signal Meter. No crank up, built in Amplifier and 360° rotation .
- 1 Extron DXP 44HD 4K PLUS 4X4 HDMI Matrix Switcher. 60-1493-21



3 HDMI input jack, wall plate and cable.

All RF cable for DSS antenna systems (when specified) shall be Belden #9116 series 6 broadband coaxial cable. All other video cabling shall be Belden #1505A RG-6/U precision video cable.

#### RADIOS:

Primary 12Vdc power leads for communications radios shall be minimum 2-gauge copper stranded wire with soldered crimp-on end connectors (gauge based on radio requirements). Cables shall be enclosed in convoluted tubing and function identified with colored shrink-wrap. Power to radios shall be controlled by a continuous-duty switch actuated by the auxiliary battery disconnect switch.

2 Prewire and make installation provisions for communications radio. Installation includes:

- NMO-style base on the roof or antenna raceway, as applicable.
- LMR195 antenna cable routed to radio transceiver location in Carlon Carflex ENT conduit.
- 12Vdc power routed to radio transceiver location.

1 Vendor purchased radios:

Radios listed below:

- Two (2) Mobile, XL-200m, Multiband
- Two (2) Feature, Vhf Band
- Two (2) Feature, Uhf Band
- Two (2) Feature, Phase 2 TDMA
- Two (2) Feature, 256-Aes, 64-Des Encryption
- Two (2) Feature Package, P25 Trunking
- Two (2) Kit, Mounting XL-Mobile Universal
- Two (2) Microphone, XL, Standard Mobile
- Two (2) Speaker, External, Mobile
- Two (2) Control Unit, XL-Ch
- Two (2) Antenna, Base, Stnd Roof Mnt Low Loss GPS
- Two (2) Antenna, Element, Flexible, V/U/700/800

Radio programming to be done by MFRD.

2 Single 3"H x 3"W x 12'L square aluminum tube antenna raceway on the roof of the apparatus. Antenna raceway will penetrate the roof at one location. Includes the following:

- 3" high x 3" long aluminum access cover at each antenna base location on the side of the tubing for access to antenna base and coax cable.
- Access covers with watertight gasket and attached with four (4) stainless steel machine screws. Raceway tube to have nut-serts installed for access cover attachment.
- Carlon Carflex ENT conduit routed from antenna raceway penetration location to radio transceiver locations.

#### COMPUTER NETWORK AND EQUIPMENT:

- 6 RJ-45 Cat6 computer network jack with Cat6 cable routed through Carlon Flex-Plus ENT conduit or raceway (as applicable).
- 1 Leviton 69586-U12 (or current model) 12-port Cat6 rack mount patch panel.
- 6 Certified 18" Cat6 patch cord.
- 1 Cable Certification Report confirming that network wiring complies with Cat6 specifications.
- 1 Red Dot weather-proof box with Leviton QuickPort inserts. Install spring loaded weatherproof PVC cover on box.
- 1 Prewire and make installation provisions for MFRD owned 4G wireless router with single modem. Includes two (2) roof mounted NMO antenna base with rain caps.

#### EXTERIOR STORAGE COMPARTMENTS:

- 2 Single door underbody storage compartments with approximate interior dimensions of 15" high x up to 60" wide x 25" deep constructed from 0.125" aluminum with all welded seams.
- 1 Single door underbody storage compartment with approximate interior dimensions 28" high x up to 48" wide x 25" deep constructed from 0.125" aluminum with all welded seams.
- 1 Custom fabricated slide out tray for Pelican Elite 95 cooler installed in underbody compartment. Includes:
  - Heavy-duty slide rails
  - Custom fabricated aluminum box
  - Pelican cooler tie-down kit to secure cooler to slide out tray
  - Cooler Assembled Product Dimensions (L x W x H) 37.75 x 20.00 x 25.00 Inches
- 1 Exterior aluminum roll up door with satin anodized finish. Includes:
  - Manual Lock with 2-sided Key
  - Sill Plate
  - Pull strap (as required)
  - Door Ajar Switch (required for LED light strips or door ajar warning, if applicable)

- 1 Aluminum drip pan installed inside of curb side roll up door compartment.
- 1 Exterior compartment with approximate interior dimensions of 48" high x up to 30" wide x 25" deep constructed from 0.1875 " aluminum with all welded seams.
- 1 Aluminum storage rack for eighteen (18) SCBA tanks. Fabricated from 0.125" aluminum.

Compartments listed above will be constructed to the following specifications:

- Sweep out type bottoms with 1/2" drain holes.
- 2" box pan doors and door frames fabricated from 0.125" aluminum.
- Door frames shall be riveted to the body and welded to the compartments.
- Compartments shall have an LED light that illuminates when the door is opened.

Compartment doors will be constructed to the following specifications:

- Stainless steel hinges attached with stainless machine screws.
- Slam latches and flush mounted handles.
- 0.100" bright polished aluminum diamond plate on interior surfaces fastened with stainless hardware.
- All doors shall be sealed with industrial grade neoprene gasket.
- All compartments to have Drip Rails installed.

#### MISCELLANEOUS OTHER:

- 2 Automatic Awning 18' Cadet Grey acrylic fabric electric awning with the following features:
  - Solid-state sensor automatically closes awning after detecting sustained winds
  - Exclusive Knee-Action Design prevents damage from sudden wind gusts
  - Heavy duty motor is fully contained in the roller tube, self-locks awning in travel position
  - Unique spring-arm mechanism automatically dumps accumulating rain water
- 1 5 pound dry chemical fire extinguisher.
- 1 Battery powered combination Carbon Monoxide and Smoke alarm.
- 1 Complete manual set, including the following
  - As-built specifications with interior and exterior drawings as used for production of the vehicle.
  - Chassis and body owner's manuals.
  - 12Vdc and 120Vac legends showing wire gauge, color, number and function.

- 12Vdc high current wiring diagram illustrating the battery system, isolators, power converters, alternator, disconnect switches and control panels.
- Roof top antenna placement drawing and legend identifying antenna placements and termination points.
- Audio/Video cabling diagram.
- Warranty and Return Authorization procedures.
- Chassis and generator maintenance and service logs.
- Battery maintenance information.

1 TRAINING.

At time of delivery to MFRD facility a manufacturer representative will provide up to four (4) hours of orientation on vendor provided systems:

Generator start up and shut down procedure

AC and DC electrical systems operation

HVAC systems operation

Audio/Video system operation,

Awning operation

Vendor shall provide a minimum warranty of three (3) years / 36,000 miles, whichever comes first, for manufacturer's defects in materials and workmanship.

**Vendor shall supply Lifetime phone & e-mail service department assistance.**



## PROCUREMENT DEPARTMENT

Potential bidders are responsible to check this site for any **ADDENDUMS** that are issued. It is the responsibility of the **BIDDER** to check for, download, and include with their **BID RESPONSE** any and all **ADDENDUMS** that are issued for a specific **BID** published by the City of Mobile. Failure to download and include **ADDENDUMS** in your **BID RESPONSE** may cause your bid to be rejected.

This is a sealed bid. Any responses faxed or e-mailed will be rejected.

This is a sealed bid. Any response must be submitted in a sealed envelope with the bid number and bid opening date on the outside of the envelope.

Any response that arrives improperly marked or with no bid number and opening date on the outside of the delivery or express package and opened in error will be rejected and not considered.

It is the responsibility of the bidder to insure that their bid response is delivered to and received in the Purchasing Department before the date and time of the bid opening.

Be sure to read the Terms and Conditions. All bids are F.O.B. Destination unless otherwise stated.

Be sure to sign your bid!

Package/Bid Delivery Address:  
Purchasing Department  
205 Government St. Room S408  
Mobile, AL 36644

(Request First Delivery)