	Comprehensive Communication Services, LLC **2800 Golden Triangle Blvd.** **Ft. Worth, TX 76177** **Office: (972)772-2721** **Email: info@ccscontact.net** **BuyBoard Contract # 71**4-23	Comprehensive Communication Services

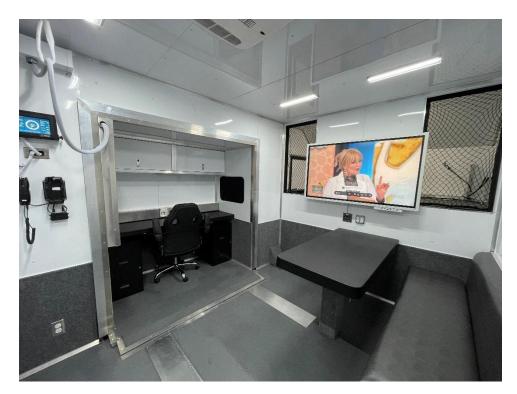| Product:	MERC 20 foot drive away command center	Date	10/15/2024
Contact:	Gary Collins	Quote Number:	CCS-2349
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PROJECT QUOTATION

MERC-20D: CCS is offering a MERC drive away mobile command center based on the stretched chassis of a Ford F-600 XLT 4-wheel drive truck. ***This unit is pre-built and is ready for immediate delivery***. An 8x20 custom command center enclosure has been added to the chassis to provide ample workspace for a response team. For additional work space, a Zumro 20 X 20 X 20 inflatable awning is included that attaches to the curb side of the unit with a custom boot. The Zumro Air Shelter includes interior LED lighting, a soft air duct system for climate control, a 3.5 ton HVAC unit with custom cast, and water bladders for securing the shelter. Metallic skid balls were added to the rear of the command center to mitigate bottoming out and will ensure there's as much clearance as possible. The enclosure is fabricated out of a steel support frame and aluminum wall structure that is secured to the chassis of the truck. A hydraulic self-leveling system is installed to ensure the unit is always at the proper level for deployment. The MERC is equipped with a 7,500 watt quiet diesel generator that is mounted on isolation mounts to limit any vibration and is mounted in a locking enclosure on the rear of the unit. An on-board auto power transfer panel will detect which power source is in use – the on board generator or a 50 amp shore power connection.

The unit is divided into two sections separated by an interior sliding pocket wall. The first section is the interior briefing (conference) room and this location is equipped with a 6-foot hydraulic slide-out on the driver side of the unit to provide additional workspace. The workstation area is equipped with desktop workspace, drawer storage, a mid-back office chair on wheels, and d-rings to secure the chair during transit. A removable conference table is installed in this room to allow seating for up to 6 people with secure tie down points for chairs. There is ample room for customer provided equipment including workstation monitors and a 55-inch HD monitor is installed along with custom storage cabinets, white and red LED overhead lighting, undercabinet LED lighting, and all required data, video, and electrical wiring. The briefing area will also be equipped with a small kitchenette or galley equipped with a mini-frig, microwave, and coffee pot, and a 42U IT rack which will house all on board electronics.

The second room is work station area located at the rear of the MERC. This space is equipped with a rear workstation area with space for two workers and custom storage cabinets. The workstation area is equipped with desktop workspace, drawer storage, two mid-back office chairs on wheels, and d-rings to secure the chairs during transit. Two monitors are installed per workstation and each workstation is wired for power with USB ports, data, and video. A large display LED clock is wall mounted and this is connected to the on-board power with a local battery backup. This is also be equipped with a small kitchenette or galley equipped with a mini-frig, microwave, and coffee pot, and a 42U IT rack which will house all on board electronics. The IT rack is equipped with five 4 post shelves and a very robust rack mounted UPS system that will support all electronics for an hour. Appropriate patch panels is installed for all wiring including data, video, and LMR. This section is equipped with white and red LED lighting and undercabinet LED lighting. An external rear access panel is installed behind the rack to allow for full rear access to all electronics. A pass-through weatherproof access port will also be installed near the rack to allow for easy cable access in and out of the unit.

The base flooring of the unit is aluminum (no wood) covered with a black or gray coin pattern rubber flooring. The unit is fully insulated and is covered with a .40 white aluminum. A 36-inch gray carpet kickpad is added to the base of the walls to help dampen the sound and protect the base of the walls from foot traffic. White board material is installed where specified and is magnetized. The unit is climate controlled by two roof mount 15,000 BTU AC units with heat strips and an on-board diesel heating system. A ventilation system is added to ensure proper air flow though throughout the unit.

A roof access ladder is added to the rear of the unit and the roof is completely walkable. A 30-foot Fireco pneumatic mast is installed on the rear of the unit to allow antennas and the customer provided PTZ camera to be extended well above the roof line of the unit. The mast is equipped with a custom mast head with a small weatherproof patch panel and removable arms for the camera and any antennas. The mast will have a 1 1⁄4 Nycoil conduit installed to provide the cabling conduit for all mast wiring. An air compressor system with air tank is installed to support the raising of the mast with a mast control panel installed in the truck. An 8 port roof mounted antenna raceway is installed to support 8 NMO mounts for radio whip style antennas.

The exterior of the unit has 360 coverage of white LED scene lighting and red/blue alert lighting as well as all DOT required marker and brake lighting. An 18 foot electric side awning is installed on the curb side of the unit with a removable work station adapter installed under the awning and an HD TV weatherproof mounting and storage area with data, video, and electrical connections. A PA system with speaker has been installed for the truck and red/blue alert lights for the truck grill.

Below are the complete build out details:

Qty	Description	Unit	Ext	Description
1	MERC Command Center with Ford F-600 XLT (customer provided) with 8X20 command center box to include:	$368,920.45	$368,920.45	Details below:
Command Center Exterior Components:				
1	box frame c-channel			Steel c-channel used to build out base frame for unit. Welded and treated with two layers of rust prevention.
1	box frame walls hat channel			Aluminum hat channel to provide a strong rust proof frame for the walls and ceiling.
17	exterior .063 aluminum skin white (4X8 sheet)			Exterior white skin that is applied with a 3M adhesive system.
1	3M adhesive package for installing panels			3M adhesive system to apply and secure all exterior unit skin.

1	Self-leveling system with touchpad control			Hydraulic self leveling system with pump system to keep the unit level during operational deployments. Includes orange Big Foot pads to be placed under the jacks. CCS will add a warning solution to the truck cab that the leveling system is deployed when starting the vehicle
1	custom hydraulic hose system for self leveling system and slide out			Custom cut hydraulic hoses with connectors for predetermine links to leveling support legs and pump system.
1	7.5Kw diesel generator			Separate 30 gallon fuel tank for generator
1	Custom locking generator compartments with soundproof material			Underbody generator compartment with soundboard and locking door.
6	Interstate 12 volt battery with battery box			Six Interstate marine 12 volt batteries to power both generator startups and all on board 12 volt electronics and lights.
20	Roof coil 20 foot for single aluminum sheet (per foot)			1 1/4 inch Nycoil conduit for pneumatic mast prewired with 3 LMR 400 cables, CAT6, and power
4	Corner roof extrusion			Custom extrusion for four corners of unit roof.
1	white roof coating for heat reflection			White rv roof coating to reflect heat.
1	Tow package welded to frame			Welded unit attachment receiver to allow unit to tow a unit. Class 3, 7-way RV plug
2	Roof Mount 15,000 BTU AC with Heat Strips (one for each room) with thermostat controls			Coleman Mach 15,000 BTU roof mount AC units with heat strips controlled by a thermostat per room. • (1) unit to work off generator only • (1) unit to work off generator or shoreline
1	Storage compartment over cab of truck with interior LED lighting			Storage space above the truck roof to keep additional equipment. Storage area will have a 4" lip + cargo net to keep contents from falling out. Foot holds/steps is installed to facilitate climbing up to the storage area.
1	Install exterior access door for IT rack (rear access)			Exterior access door allowing full access to the rear of the IT rack.

2	50 amp shore power connections			Weatherproof 50 amp shore power connection for local power when available. • (2) plugs / 30amps each • Weather resistant closure • One shoreline connection shall be labeled shall power 120VAC receptacles and the battery charger. • The other shoreline connection shall power the rooftop A/C units. • An automatic transfer switch shall be furnished and wired between • generator and upper shoreline to provide power to selected • 120VAC loads from either electrical source • Ability to leverage residential plug-ins / configurations that could be encountered on an incident
1	Auto power transfer panel			Panel identifies when shore power is connected and alternates between shore power and generator power.
1	Side access man door with window, grab handle, electronic keypad and key backup			Large side entry door with eye-level window, electronic keypad entry and a entry step system. The step is powered and able to be locked down with a switch
1	Folding safety handle for side access door			Safety handle for support when entering or leaving unit.
1	Electric side awning 18 feet. White exterior top when deployed			One touch deploy and stow electric side awning system for shade on curb side of the unit. CCS will include an after market solution as necessary which provides a light indication for driver when the slide out or the awning is not fully retracted & stowed
1	Exterior tv mounting system with power, data connectivity, and weatherproof cover			External TV compartment with all data, power, and video ports need for large HD TV.
1	Exterior work station			Clam-shell dual-door design where the lower door folds down into a flat supported position that will serve as a workstation

				• Install the customer supplied radio head mount Includes a weather resistant cover for the entire workstation area
1	Drip rail system for water runoff			Gutter system for water run off from unit.
1	Red/Blue mounted in the truck grill			Emergency alert lights mounted in truck grill system.
1	NMO mounts for 8 antennas with 12 inch between mounts with antenna raceway			Long aluminum raceway with 8 NMO mounts for antennas. Capped with a removable weather proof cover or lid. Need to have 10ft between the VHF radio antennas
1	Prewired for tethered drone system			Electrical and data connectivity for drone tethering system terminated into a small junction box. Customer will supply and install the drone. CCS will provide wiring to accommodate a turnkey solution.
1	DOT approved lighting package for running lights, brake lights, turn signal			Running lights and brake lights for body of unit.
1	Exterior storage compartments with locking access doors			Underbody storage components with locking doors for air compressor system, hydraulic system and storage.
1	Bedliner and rust prevention on unit frame			Two layers of rust prevention on unit steel frame.
1	Outdoor entry grip step system			Side entry step system for side entry door. The step is powered and able to be locked down with a switch
1	Roof access ladder			Aluminum roof access ladder to access all electronics on roof of unit.
NA	*** MASTER 120VAC/DATA PORT LIST for 'exterior' **Exterior - Driver Side:** • (1) 120VAC duplex outlet • Weather resistant cover **Exterior - Passenger Side:** • (1) 120VAC duplex outlet • Weather resistant cover **Exterior: Rear:** • (2) 120VAC duplex GFCI electrical outlets, one on each side of the rear • Weather resistant covers			All 120VAC duplex outlets & data ports to be installed on vertical surfaces to reduce the cord clutter on horizontal surfaces

	Exterior - Passenger Side Work Station: • (1) 120VAC duplex outlet • (1) data port comprised of HDMI, USB3.0, USB-C **Exterior Passenger Not Within Work Station:** • (1) 120VAC duplex outlet • (1) data port comprised of HDMI, USB3.0, USB-C • Weather resistant cover			
Unit Interior Components:				
NA	*** MASTER 120VAC/DATA PORT LIST for 'interior work areas' **COMM/Dispatch Area - 2 workstations:** • Each station has (1) 120VAC duplex outlet on wall for 2 dedicated monitors • Each station has (1) data port on wall (HDMI, USB3.0, USB-C) • (1) 120VAC duplex outlet on wall mounted between/underneath 1st pair of wall mounted monitors (monitors mounted SxS) • (1) data port outlet (HDMI, USB3.0, USB-C) on wall mounted between/underneath 1st pair of wall mounted monitors **Inc. Commander area - 1 workstation:** • (1) 120VAC duplex outlet on wall for (2) dedicated monitors mounted SxS • (1) data port on wall (HDMI, USB3.0, USB-C) • (1) 120VAC duplex outlet on wall mounted between/underneath wall mounted monitors (monitors mounted SxS) • (1) data port outlet (HDMI, USB3.0, USB-C) on wall mounted between/underneath wall mounted monitors **Briefing area - no dedicated workstations:** • (1) 120VAC duplex outlet wall mounted to support the ~55" wall-mounted monitor • (1) data port on wall (HDMI, USB3.0, USB-C) to support the wall-mounted monitor • (2) 120VAC duplex outlets on wall below monitor on to support staff sitting at table			All 120VAC duplex outlets & data ports to be installed on vertical surfaces to reduce the cord clutter on horizontal surfaces

	• (4) data ports on wall (HDMI, USB3.0, USB-C) to support staff sitting at table			
20	complete unit insulation package			Full unit board style insulation for full body of unit.
26	interior .040 aluminum skin white (4x8 sheet) for walls, ceiling, doors			White aluminum skin for all interior walls and ceiling.
1	One slide out (dimensions) with deployment warning feature. Separate pump system from self leveling system.			Hydraulic slide out for one work station (incident commander).
1	Custom control panel with generator controls			Custom control panel to include generator controls, self leveling system, and LED lighting
6	aluminum sheet for flooring (4x8)			Aluminum sheets for flooring that is covered with a rubber coin pattern flooring.
6	Coin rubber flooring (gray or black) 4X8 roll			Non-slip rubber coin flooring that comes in gray or black. Gray does a better job of hiding dirt or dust tracks.
1	gray carpet for 3 foot kickpad at base of walls			Carpet kickpad installed on bottom section of all walls.
1	Wilson Art Adhesive			Adhesive used to apply rubber flooring and carpet kickpad.
1	aluminum trim for interior finish out work			All carpet, flooring, cabinets, and walls is trimmed out for a professional appearance.
1	Diesel heater for interior			Interior diesel heater to help warm up unit when temperature dips below 40 degrees. Tied to fuel tank on truck. Ability to flow heat & AC air into briefing area via vendor supplied & installed thermostat
1	Two fixed windows with interior covers			A tinted window installed on both short walls of the slide out for exterior views.
1	Overhead storage cabinets			Custom aluminum storage cabinets over all work stations. CCS will install storage cabinets on both sides of the workstations where allowable
1	Under cabinet LED lighting			Switched LED lighting installed under all overhead storage cabinets.
1	Interior white and red LED lighting package			Switched 12 volt white and red LED lighting separated by section.
1	Workstation with drawer storage on each side of seat, office chair, and d -rings to secure chair movement during transport			Custom workstation with under countertop drawer, office chair, and secure tie down points.
1	Wiring package with HDMI and shielded CAT6			Full data, HDMI, electrical, and USB wiring where needed.

1	Removable conference table with seating for 6 people (stores in overhead storage)			Custom conference table that can be removed and stored in overhead exterior compartment.
1	Seating bench for 2 people with storage			Custom bench with raise up lid for access to storage space. Custom cushion with a custom color choice.
1	Magnetic white Board 3x4			Install a small white board in work space area with erasable pen package. There is no lip on white board to reduce catching on uniforms
1	Kitchenette with microwave, Mini-frig, and coffee pot with finish out work			Kitchen area with mini -frig, countertop space, microwave, and coffee pot. CCS supplies mini fridge and microwave and coffee pot.
1	Fire extinguisher (one per room)- ABC two pack			One fire extinguisher per room.
1	Interior dividing wall with sliding pocket door			Separation wall with a pocket door designed for a mobile environment.
1	Air ventilation system			Allows air flow between two compartments.
1	work station for comms area to support 2 people			Custom workstation area with under countertop drawer, office chairs, and secure tie down points.
2	work station chairs with d-rings to secure			Chairs for work station area
1	overhead storage cabinets for comm area			Custom aluminum storage cabinets over all work stations. CCS to avoid materials that is very cold to the touch in winter
2	under work station filing cabinets			Small two drawer filing cabinets: 2 cabinets on each side of incident commander's workstation, and at least 2 in the comm workstation, 1 in between the work stations
1	Space for customer supplied printer/fax/copy device and related 120VAC outlet/data port			120VAC duplex outlet & supply & (1) data port comprised of HDMI, USB3.0, USB-C
4	120VAC duplex outlets for IT rack			electrical outs at rear of IT Rack to support rack mounted electronics.
1	LED lighting for IT rack			Two level of LED lighting at rear of IT rack to provide great lighting for IT work.
1	Install cabling pass through hole			Exterior cable pass through for running cables in or out of unit. Pass-through access hole for RJ-45 and 120v power access from the exterior door. Located next to the exterior IT rack door

8	Exterior LED lighting			Full 360 bright white LED lighting for nighttime use. Each exterior side will have independently controlled scene lights (front exterior wall is the over cab front facing storage wall). Customer will have ability to control from both inside the cab as well as within the shelter near the man door
8	Red/Blue flashing EMS lighting			Full 360 blue/red emergency LED lighting for law enforcement notification. • Exterior driver, passenger, front top, and rear • Controlled from within cab
1	Electrical panel with breakers (12 volt and 120 VAC)			Electrical panel for all 120VAC and 12 volt power - breakers and fuses.
6	Plywood for roof inserts - walkable			Plywood used to make the roof completely walkable.
Technology Components				
1	Intellian LEO sat Dish with Pepwave BR2 dual modem dual sim router			Intellian Sat Dish with prepaid service for one year and Pepwave BR2 (customer to provide sim cards)
2	Wiring and install for the 2 IP Access Redphones			1 Redphone (enhanced package) in the comm area, and 1 in the incident command area. Any applicable wiring and coordination with IP Access.
1	Wiring for matrix switch and control head			CCS will wire for customer-supplied and customer installed matrix switch within the IT rack - there are 4 outputs and 3 inputs in use, but it is an 8 output by 6 input switch. LCSO will install a control head at the inc commander workstation
1	Wiring for and installation of mounting bracket for 800 Mhz (DTRS) radio			CCS will install a mounting bracket and complete wiring/cabling for customer supplied/installed radios in Truck cab and Exterior workstation (has an extra radio head to be a slave) .
4	Wiring for4 Dual band (800 hz/VHF) APX8500 radios			CCS will wire for 4 customer supplied/customer installed radios in the communications area. LCSO intends to mount the radios underneath the workstation cabinets
1	PA System for truck - Motorola Underhood Siren Speaker, Gray			Underhood speaker for Public announcements by the driver.

1	Two 55 inch HD monitors			55 inch Smart TV HD
1	Backup camera system and security dome cameras			Backup camera system for driver Mounted at top of rear wall. Integrated with OEM cab electronics or add-on display. Consider glare from rear scene lighting relative to camera
1	Precision Digital Electronic Wall Clock			LED digital clock in unit interior work space.
1	4 monitors in comms area (2 per work area)			two monitors per work station .
1	install 2 customer provided monitors in incident command area			CCS will install two monitors per work station. Customer to provide monitors.
1	42u IT rack with 4 four post rack shelves			42u IT rack with four 4 post rack shelves to support all on board electronics. Will house customer supplied 19" width standard gear. Hardware faces interior. Wiring and connections face exterior door.
1	Smart-UPS X 3000VA Sinewave 4U Rackmount Extended Run LCD 120V TAA			rack mount UPS at the base of the IT rack to provide extended run times for all rack mounted electronics.
1	One Year Warranty on all parts and labor	$ -	$ -	One year warranty on all parts and services provided by CCS.

1	**Zumro Awning (included in total price)**		
1	ZUMRO Awning System 20' - Custom Dimension (approx 400 SQ FT), Low-Pressure Inflatable Airbeam Shelter System; Color Options: Desert Sand, OD Green, White, Blue, Red, Yellow; Deployable by 2 personnel in under 5 minutes; Packed Dimensions (est): 20L x 20W x 24H at 180 LBS (Shelter Only); Features: Removable Floor, Universal Quick Connect Panel w/ adapter collar (x2 on ends), Quick Connect adapter collar (x1 on front door), 6'x3' dual-zipper door (x3), 3'x2' screened windows with exterior privacy cover and tie-ups (x2), 10''-14'' utility ports w/ drawstring closure (x4), eave vent screens w/ covers on ends (x4), high-capacity equipment hanging points at 65'' (x6), cross beam retainer straps (x2), exterior frame anchor points (x6), high wind tie-downs (x4); Included accessories: 110V inflator/deflator w/ hose, heavy-duty transport bag w/ cinch straps and carry handles, and maintenance kit		
1	Shelter Color Choice - TAN - SOLID COLOR		
1	Interior HVAC Ducting for ZUMRO Awning System 20' w/ 2x HVAC Connections and 3.5 Ton HVAC unit with cart		

1	Insulation ZUMRO Awning System, 20', Radiant barrier, Roof Panel Only		
1	LED Lighting System w/ Control Box for ZUMRO Awning System 20		
1	Anchor Bladder Set for ZUMRO Awning System, 20', QTY 2 Bladders		

Considerations: CCS is a Texas based company operating out of Ft. Worth, TX and is an approved vendor on the BuyBoard Contract. CCS works with the three major LTE network providers including AT&T FirstNet, Verizon Wireless, and T-Mobile/Sprint – but is authorized as an AT&T FirstNet Reseller and Integrator.

Proposal Notes:

1. All prices are quoted in USD and will remain firm and in effect for 120 days – 1 MERC unit.
2. This Quote does not include anything outside the above stated bill of materials.
3. Complete system includes one (1) year parts and labor warranty, extended warranty options are available.
4. Transport charges are not included for unit delivery.
5. Training is conducted at CCS facility during or before customer pickup.

Quoted by: Gary Collins   **Phone: 972-772-2721**   **email: gwcollins@ccscontact.net**

MERC Project	**$ 368,920.45**	
Accepted By:	**Date:**	**P.O#**