

DO NOT INVOICE THIS ADDRESS

City and County of Denver
 Purchasing Division
 201 W. Colfax Ave Dept. 304
 Denver, CO 80202
 United States of America
 Ph: 720-913-8100 Fax: 720-913-8101



Purchase Order Number	PO-00154739
Purchase Order Date	Sep 4, 2024
Contract ID	
Payment Terms	Net 30
Payment Type	Check
Buyer	Matthew Monaghan Matthew.Monaghan@denvergov.c

Supplier
LDV INC 180 INDUSTRIAL DR BURLINGTON, WI 53105 United States of America Ph: (800) 5585986

Ship-To
Electronic Engineering Bureau 2100 31st St Denver, CO 80216 United States of America George Evans

Bill To
Office of Emergency Management - 7th Floor 101 W Colfax Ave Denver, CO 80202 United States of America George Evans

Currency	Total Lines Amount	Tax Exempt	Total PO Amount
USD	\$563,498.00	98-02890-0000	\$563,498.00
Shipping Terms	Shipping Method	Shipping Instructions	
FOB Destination	Common Carrier		

Goods Lines								
Line Number	Item Name	Supplier Item Identifier	Description	Due Date	Unit of Measure	Quantity	Unit Price	Line Amount
1		LDV Model # SS32FC1S-23SV	LDV Stock Series Mobile Command Center BuyBoard Model # S40FC-SV		Each	1	\$113,263.00	\$113,263.00
3		LDV Model # SS32FC1S-23SV	LDV Stock Series Mobile Command Center BuyBoard Model # S40FC-SV		Each	1	\$445,125.00	\$445,125.00

Service Lines				
Line Number	Item Name	Description	Due Date	Line Amount
2		Delivery charge to Denver, CO		\$5,110.00

Agency & Billing Contact: George Evans | (720) 865-7681 | george.evans@denvergov.org

Vendor Contact: Cory Weithaus | (262) 492-6547 | cweithaus@ldvusa.com

Receiving Agency Contact: Commander Betsy Sailor | bsailor@ci.wheatridge.co.us | (303) 235-2909

VENDOR: You must contact the Agency & Billing Contact listed above to confirm this order and the Receiving Agency Contact for vehicle titling instructions.

REFER TO VENDOR QUOTE "EXHIBIT A" DATED 9/4/2024 REV1 FOR GOODS AND SERVICE DESCRIPTION AND PRICING ONLY. VENDOR TERMS AND CONDITIONS ARE INAPPLICABLE.

Purchase Order price listed herein includes all shipping and handling.

ALL INVOICING MUST MATCH THE PURCHASE ORDER EXACTLY AND CONTAIN THE PURCHASE ORDER NUMBER. ALL INVOICES MUST BE SENT DIRECTLY TO THE BILL TO ADDRESS LISTED ON THE PURCHASE ORDER. THIS ADDRESS MAY BE DIFFERENT THAN THE SHIP TO ADDRESS. CHANGES TO THIS PURCHASE ARE NOT VALID WITHOUT PRIOR APPROVAL FROM PURCHASING. ALL CORRESPONDENCE MUST CONTAIN THE PURCHASE ORDER NUMBER IN FULL.

Purchase pursuant to DRMC 20-64.5. The terms and conditions herein supersede and replace all terms and conditions of BuyBoard cooperative contract #714-23.

This purchase is supported fully by Federal Homeland Security funding issued through the State of Colorado's Division of Homeland Security and Emergency Management.

3.26(e)-This Purchase Order is contingent on Council approval and is void without such action.



Authorized By

By accepting this Purchase Order you agree to the Terms and Conditions of the General Services Purchasing Division. Follow the URL provided to the Purchase Order Terms and Conditions – https://denvergov.org/files/assets/public/v/1/purchasing/documents/generalservicespurchasing_general_conditions_of_purchase_11242021.pdf

EXHIBIT A



180 Industrial Drive
Burlington, WI 53105 USA
Phone: 800-558-5986
Fax: (262) 767-2529
Direct: +1 (262) 763-0147
www.ldvusa.com

**PRELIMINARY
SPECIFICATIONS FOR:**

**DENVER PD (CO)
MOBILE COMMAND CENTER**

BUYBOARD MODEL # S40FC-SV
LDV STOCK SERIES MODEL # SS32FC1S-24SV
LDV PROPOSAL # S32MCC-35995-24

DATE
~~MAY 28, 2024~~
SEPTEMBER 4, 2024 REV1



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TABLE OF CONTENTS

PRICING PAGE:3
CHASSIS:4
BODY:6
PAINT / GRAPHICS:8
DRIVER / PASSENGER CAB AREA:8
WALLS, CEILING AND FLOOR:9
GALLEY: 10
SEATING: 10
CABINETS: 10
HVAC SYSTEM: 11
AC ELECTRICAL SYSTEM: 11
DC ELECTRICAL SYSTEM: 13
EMERGENCY LIGHTING / SIRENS: 14
AUDIO / VIDEO: 15
MAST AND MAST MOUNTED EQUIPMENT: 16
RADIOS: 16
COMPUTER NETWORK AND EQUIPMENT: 16
MISCELLANEOUS ELECTRONICS: 17
EXTERIOR STORAGE COMPARTMENTS: 17
MISCELLANEOUS OTHER: 17



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PRICING PAGE:

(BuyBoard contract 714-23)

Total price per unit as specified, FOB Origin	\$578,285.00
Discount amount	-\$21,397.00
BuyBoard discounted price for 1 unit as specified	\$556,888.00

Contract Administration Fee - BuyBoard	\$1,500.00
BuyBoard discounted price for 1 unit as specified with Contract Admin Fees	\$558,388.00
Delivery charge to Denver, CO	\$5,110.00

Total price per unit	\$563,498.00
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Delivery terms: Ask your Sales Representative.

Payment Terms: Net 30

Quote is firm for 30 days from specification date.

Quoted price does not include any applicable FET, federal, state or local tax unless specified.



CUSTOM SPECIALTY VEHICLES

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Item	Qty	
1.00		<p><u>CHASSIS/BODY DIMENSIONS:</u> 22' walk-in van • Wheelbase of chassis: 208" • Overall length of apparatus: 377" • Overall apparatus width, rub rail to rub rail: 99" • Overall height of apparatus (loaded): 136" • Interior walkway height raw body: 83" • Interior walkway height finished: 81.5" • Interior walkway length: 264" • Interior raw body width: 96" • Interior finished body width: 87"</p> <p>Final measurements are dependent on body builder, chassis components, axles, tires, frame, suspension, and roof-mounted equipment.</p>
2.00		<p><u>CHASSIS:</u></p>
2.01	1	<p>Freightliner MT-55G forward control gas chassis. 23,000-lb. GVWR with spring rear suspension and hydraulic brakes.</p> <p><u>ENGINE:</u> • GM L8T 6.6L 380 HP @ 4500 RPM, 4500 GOV RPM, 465 LB/FT @ 4000 RPM</p> <p><u>ENGINE EQUIPMENT:</u> • Frontal air intake • Air cleaner mounted on rail • 220 amp alternator • (1) Alliance 7T31 group 31 12 volt battery • Horizontal tailpipe, exit RH aft of rear tires • Antifreeze to ethylene glycol pre-mixed 50/50 coolant • Rubber coolant hoses • 400W /120V Block heater</p> <p><u>TRANSMISSION:</u> • Allison 2205 HS automatic transmission with park pawl, no PTO provision</p> <p><u>TRANSMISSION EQUIPMENT:</u> • Water to oil transmission cooler • Synthetic transmission fluid (TES-295 compliant)</p> <p><u>FRONT AXLE AND EQUIPMENT:</u> • 8,000# drop single front axle • WEMC hydraulic 4-piston fixed caliper disc front brakes • Front grease seal • TRW TAS-55 power steering</p> <p><u>FRONT SUSPENSION:</u> • 8,000# taperleaf front suspension • Maintenance free rubber bushings - front suspension • No front swaybar • Front shock absorbers</p>



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		<p><u>REAR AXLE AND EQUIPMENT:</u></p> <ul style="list-style-type: none"> • 15,000# single rear axle • 5.13 rear axle ratio • SPL70 Dana Spicer main driveline with half round yokes • Transmission and rear axle driveline guard • Synthetic 75W-90 rear axle lube • WEMC hydraulic 4-piston fixed caliper disc rear brakes • Rear oil seals <p><u>REAR SUSPENSION:</u></p> <ul style="list-style-type: none"> • 15,000# taperleaf spring rear suspension with radius leaf • Rear shock absorbers <p><u>BRAKE SYSTEM:</u></p> <ul style="list-style-type: none"> • Hydraulic brake package • Wabco hydraulic 4S/4M <p><u>FUEL TANKS:</u></p> <ul style="list-style-type: none"> • 40 gal / 151 liter rectangular steel fuel tank - between rails <p><u>TIRES:</u></p> <ul style="list-style-type: none"> • 255/70R22.5 16 ply radial front tires • 255/70R22.5 16 ply radial rear tires <p><u>HUBS:</u></p> <ul style="list-style-type: none"> • WEMC iron rear hubs painted black <p><u>WHEELS:</u></p> <ul style="list-style-type: none"> • 22.5X7.50 8-hub pilot 5.44 inset aluminum disc front wheels • 22.5X7.50 8-hub pilot aluminum disc rear wheels <p><u>CAB INTERIOR:</u></p> <ul style="list-style-type: none"> • DENSO HD A/C compressor • Auto self-reset circuit breakers and fuses • Tilt steering column <p><u>INSTRUMENTS & CONTROLS:</u></p> <ul style="list-style-type: none"> • Optiview 12.3" LCD • Fuel level indication w/low level warning in driver display • Digital speedometer • Electric engine oil pressure gauge w/ warning lamp & alarm • Electric engine coolant temperature gauge w/ warning lamp & alarm • Engine hour meter, integral to message center LCD • 97 dB backup alarm • Cruise control switches • Turn signal flasher <p>Note: Chassis specifications are from Freightliner Custom Chassis and are subject to change without notice.</p>



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2.02	1	<p>Chassis starter interlock system.</p> <ul style="list-style-type: none"> • Chassis starter is disabled when any of the connected systems is not ready for vehicle travel. • Audio warning will sound if ignition is turned on • Multiplex screen will show a which device is not stowed and engaging the interlock. • Override button allows for moving the vehicle in an emergency situation.
2.03	1	<p>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.</p>
3.00		<u>BODY:</u>
3.01	1	<ul style="list-style-type: none"> • Load space area shall be 83" high x 96" wide x 22' long 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. • NFPA 1901 embossed 0.125" aluminum tread plate roof attached to 3" x 1 1/2" x 0.125" extruded aluminum roof bows on 16" centers. Bows are 2" skip welded every 12". Tread plate seams shall be continuous welded. Perimeter of roof shall be chemically sealed. • 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



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Item	Qty	
		<p>body.</p> <ul style="list-style-type: none"> • 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 a jump seat with 2-point seat belt. • Intermittent windshield wiper/washer with single heavy-duty windshield wiper motor. • Custom front wheel cutouts for tires. • Aluminum engine box cover with acoustical and thermal insulation. • 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. • 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. <p>Note: Specifications are from body manufacturer and are subject to change without notice.</p>
3.02	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.
3.03	3	Exterior heavy-duty fluted aluminum grab handle with rubber inserts and chrome plated stanchions installed at entry door.
3.04	1	Automatic LED courtesy light at entry door.
3.05	1	Courtesy light defeat in Intel-I-Touch™ multiplex control screen. Each entry door courtesy light will be automatically deactivated where the corresponding room has the overhead lighting set to night mode.
3.06	1	24" Single manually operated exterior entrance step.
3.07	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.
3.08	1	Maxxima LED Round combination stop/tail, turn and reverse lights.
3.09	1	Cast Products LP0004-1-B aluminum license plate mounting frame with LED light.
3.10	1	Entire underside shall be undercoated. Includes floor extrusions, step wells and aluminum compartments.
3.11	1	LDV rear mud flaps. Includes anti-sail brackets when required.
3.12	1	Flat floor slide-out room extension fabricated with a structurally rigid welded aluminum tube design with a fully bonded aluminum shell. During deployment an electronic control system automatically expands the room extension and lowers the floor to flush position.



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		<p>Features:</p> <ul style="list-style-type: none"> • Electric over hydraulic control system programmed to lower the slide out to floor height after full extension. • Awning that automatically extends and retracts over the top of the room to protect from weather and debris. • Full perimeter double rubber bulb seal with an additional seal in the fully extended and fully retracted positions. • No track or hardware shall be attached to the ceiling of the body. <p>NOTE: Slide out up to 90" length x 30" deep (full extension of 26").</p>
3.13	2	<p>Flashing warning light for slide out.</p> <p>NOTE: Amber LED color.</p>
4.00		<u>PAINT / GRAPHICS:</u>
4.01		Body base color shall be white.
5.00		<p><u>INTERIOR COLOR SELECTION:</u></p> <ul style="list-style-type: none"> • Wall Covering <ul style="list-style-type: none"> ○ Front room: Chrome carpet ○ Rear room: Silver smooth Kemlite 0.075" FRP • Bulkheads: Silver smooth Kemlite 0.075" FRP • Ceiling Fabric <ul style="list-style-type: none"> ○ Center: #HAT2-C0111 Charcoal Gray Texture Powder Coated Aluminum ○ Outside ceiling: Silver Mist carpet • Floor Covering: #150 Onyx PVC Flooring • Office Chairs: Black • Vinyl Coverings: <ul style="list-style-type: none"> ○ Seat bottom to be stock Black Vinyl. ○ Seat back to be Ultraleather Dwell 570-5635 Basalt back • Cabinets: #HAT2-C0111 Charcoal Gray Texture Powder Coated Aluminum • Slide out valance: #HAT2-C0111 Charcoal Gray Texture Powder Coated Aluminum • Interior door panel: Black Texture Powder Coated Aluminum • Bench seat base: #HAT2-C0111 Charcoal Gray Texture Powder Coated Aluminum • Counters and Tables: #4879-38 Steel Mesh Laminate • Overhead control console cabinet: Black laminate <p>Note: Manufacturer reserves the right to substitute equivalent materials.</p>
6.00		<u>DRIVER / PASSENGER CAB AREA:</u>
6.01	1	<p>Walk-in van custom cab area finishing.</p> <ul style="list-style-type: none"> • Cover cab doors with aluminum panels powder coated. • 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.



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		<ul style="list-style-type: none"> • 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.
6.02	1	Work area on passenger side covered with laminate to match rear countertops and trimmed with vinyl T-molding.
6.03	1	Custom fabricated console to house Intel-I-Touch™ Control electrical distribution components and control panels. Console 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.
6.04	1	Red/Clear LED dome light with 3-position switch, red/off/white.
6.05	1	Color back up camera system with 7" LCD monitor and day/night camera.
6.06	1	AM/FM stereo with Bluetooth and one (1) pair of 6" x 9" speakers.
7.00		<u>WALLS, CEILING AND FLOOR:</u>
7.01		Insulate walls with a minimum of 2-1/2" of fiberglass insulation. Cover interior body side posts with 1/2" plywood sub wall.
7.02		Cover sub wall with smooth finish Kemplite 0.075" fiberglass reinforced plastic (FRP) lining. Wall covering shall be a continuous piece front to back, no seams acceptable.
7.03		Cover sub wall with ribbed loop pile carpet.
7.04		Insulate ceiling with a minimum of 2-1/2" of fiberglass. <ul style="list-style-type: none"> • Cover interior roof beams with 1/2" plywood. • Modular panel design allows for manageable future additions and repairs. • Plywood Panels covered in acoustical fabric.
7.05		Floor underlayment to be 5/8" exterior grade tongue and groove structural plywood, 6 ply, face veneer plugged and sanded.
7.06		Lonseal Loncoin II Flecks non-skid commercial grade PVC flooring. The flooring shall be continuous, one piece full length, full width, no seams.
7.07		Vinyl cove molding (mop board) at base of wall, 2-1/2" high. Installed where required.
7.08	1	Flush pocket door installed on heavy-duty aluminum c-channel track with two (2) three-wheel roller trucks and soft open/close feature. Pocket door shall have recessed handle and magnetic closure to keep the door open/closed.
7.09		All bulkheads shall be covered with Kemplite 0.075" FRP. Trim exposed edges of bulkheads with rounded anodized aluminum trim where applicable.
7.10	1	Cover load space door with powder coated aluminum panel with heavy-duty rubber grab handle. NOTE: Interior window covering will be a mini blind.
7.11	1	Hehr street side mounted 30" wide x 19" high flush mount deep-tint horizontal sliding egress window with screen. NOTE: Interior window covering will be a mini blind.



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8.00		<u>GALLEY:</u>
8.01	1	Microwave oven, minimum 1.0 cu. ft..1000-watt. NOTE: Current model is Panasonic NN-SU656B 1.3 Cu. Ft. Black Countertop Microwave Oven
8.02	1	Keurig Coffee maker. NOTE: K475
8.03	1	Norcold DC751BB DC powered refrigerator with the following features: <ul style="list-style-type: none"> • 2.7 cu. ft. capacity. • Freezer shelf for ice cube tray. • Door bin holds 2-liter containers. • Integrated door latch. • 12/24 Vdc
9.00		<u>SEATING:</u>
9.01	2	Space Air Grid office chair 5560 black with armrests, five caster spider base, and adjustable height.
9.02	4	HON Basyx HVL210 pneumatic task chair with five-star caster spider base, adjustable height and no armrests.
9.03		Fabricate and install fixed bench seating with removable cushions as shown on drawing. Bench seat cushions shall be covered in heavy-duty vinyl.
9.04		Fabricate and install flip-down bench seating as shown on drawing. 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.
9.05		<u>BENCH SEAT REQUIREMENTS:</u> <ul style="list-style-type: none"> • 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.
10.00		<u>CABINETS:</u>
10.01		Custom fabricated aluminum cabinets located as shown on drawing. Cabinet specifications: <ul style="list-style-type: none"> • 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 with gas spring lift supports.
10.02		Radius edging incorporated as design permits.



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10.03	5	Dry erase writing surface on overhead cabinet door.
10.04	5	LED light with on/off switch, mounted under overhead cabinet. NOTE: (1) per workstation and (1) galley
10.05	1	Slide-out printer tray.
10.06	1	Magnetic dry erase board framed in aluminum. Includes aluminum clip frame for easy board replacement, sized as required.
10.07		Countertops shall be covered in 0.040" Wilsonart laminate. All exposed edges shall be covered with heavy duty flexible PVC T-molding.
10.08		Conference table covered in 0.040" Wilsonart laminate. All exposed edges shall be covered with heavy duty flexible PVC T-molding.
10.09	1	Powder coated 0.125" aluminum conference table base.
10.10		Folding leaf for conference table.
11.00		<u>HVAC SYSTEM:</u>
11.01	1	Fan-tastic Vent model 1450 3-speed reversible 12" power roof ventilator.
11.02	2	Low profile rooftop air conditioner with wall mounted thermostat. Includes: • 13,500 nominal Btu/hr air conditioner with condensate pump. • Ceiling assembly with 6,000 Btu/hr heat strip • Wall mounted thermostat
11.03	2	Broan model 174 wall mount 5,120 Btu/hr electric heater.
12.00		<u>AC ELECTRICAL SYSTEM:</u>
12.01	1	Wrico 15-kW 120/240Vac liquid-cooled gasoline generator, 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 • 3 year/2000 hour Warranty with nationwide service network • 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.



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		<p>NOTE: Generator exhaust shall be routed to the street side of the vehicle.</p>
12.02	1	<p>ACData surge suppressor for protection of entire AC power system. Product features: • UL listed: UL1449 3rd Edition • LED visual verification of status</p>
12.03	1	<p>LDV exclusive Intel-I-Touch™ vehicle automation control system. A multiplexed vehicle automation system must be incorporated into a common touch screen(s) that is custom programmed to monitor and control onboard systems as described throughout the specifications. The automation system software must allow simultaneous distribution of information to multiple onboard control/monitoring stations and the software must be updateable and configurable as required. This system is mandatory as it simplifies start up procedures, contains fewer operating components, reduces operational start-up time, reduces the total amount of wiring in the vehicle and includes error detection protocols and troubleshooting features.</p> <p>Features include: • One (1) 10" LCD touch screen with custom graphics for control and monitoring systems • AC power distribution control and monitoring for the generator with power management • DC power distribution control and monitoring • Manual or automatic generator control • HVAC and temperature control. • Interior and exterior lighting control • Automatic power transfer switches • Automated startup and shutdown procedures • Seamless control of generators, lighting, awnings and additional devices • Mast control • Safety interlocks • Battery saver feature • Generator Service Alerts</p> <p>The system must be completely upgradeable with power modules located throughout vehicle. Additional components may be added to system with a simple software modification System capability is not to be achieved with use of multiple monitoring systems designed for specific use i.e. water monitors, battery monitors etc.</p>
12.04	1	<p>3" Touch panel with numeric display for dedicated local control and monitoring of specific vehicle automation system features including room HVAC. Display shows current room temperature and HVAC setpoint when adjusted. Includes control layout and indicators where applicable.</p>
12.05		<p>Night Time (Red) Lighting Mode turns the ceiling lighting in each room from white to red lights.</p>
12.06		<p>Reduced Lighting Mode is white ceiling lighting in each room have the option of All-On or Half-On.</p>



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Item	Qty	
12.07	1	Kusmaul Auto Eject 20, 20A-120Vac shore power inlet with 25-ft. 20A-120Vac shore power cord. #091-20WP-120RD.
12.08	1	Marinco 50A-125/250Vac shore power package including: <ul style="list-style-type: none"> • Waterproof shore power inlet with cap • 50-ft. 50A-125/250Vac shore power cord • 6-ft. 50A-125/250Vac pigtail
12.09	2	20A-125Vac duplex receptacle. Receptacle is not dedicated to any installed equipment. NOTE: <ul style="list-style-type: none"> • One (1) electronics rack • One (1) printer (future)
12.10	8	20A-125Vac duplex receptacle with dual USB charging ports [one (1) Type A and one (1) Type C]. Receptacle is not dedicated to any installed equipment. NOTE: <ul style="list-style-type: none"> • One (1) per workstation [qty. 4] • Two (2) conference table base • One (1) passenger front workstation • One (1) between workstation #3 and #4
12.11	1	20A-125Vac GFCI duplex receptacle. These receptacles are not dedicated to any installed equipment. NOTE: Galley
12.12	2	20A-125Vac exterior GFCI duplex receptacle. NOTE: Receptacle will be installed with a weatherproof cover.
12.13		Wire chase wire management raceway system located as shown on drawing.
12.14		<u>AC WIRING REQUIREMENTS:</u> <ul style="list-style-type: none"> • All AC main wiring shall be stranded THHN wire and run in non-metallic liquid tight conduit. • All AC branch circuit wiring shall be stranded THHN wire (AWG 12 minimum) and run in non-metallic liquid tight and ENT conduit. • All electrical circuits and appliances shall conform to applicable national electrical codes.
13.00		<u>DC ELECTRICAL SYSTEM:</u>
13.01	1	<ul style="list-style-type: none"> • Four (4) Lead acid deep-cycle 6Vdc batteries. Batteries shall be installed underbody in slide out weather resistant compartment. Two (2) batteries will be separated for auxiliary equipment and two (2) batteries will be for communications equipment. • Two (2) electronic converter/chargers, 80 amp minimum output. Converter/charger features: <ul style="list-style-type: none"> • 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. • All DC electrical and metering switched and monitored through the multiplex system.
13.02	13	Light, Orion 6" LED, neutral white with polished bezel.



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Item	Qty	
13.03	7	Light, Orion 6" LED, neutral white / red with polished bezel.
13.04	5	Whelen M9LZC Gradient LED Scene Light with chrome flange.
13.05		<p><u>12VDC WIRING REQUIREMENTS:</u></p> <ul style="list-style-type: none"> • 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. • Extreme care shall be exercised to provide for easy serviceability of the system in future years. • Extreme 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.
14.00		<u>EMERGENCY LIGHTING / SIRENS:</u>
14.01	1	Whelen 295SLSA6 siren with 9 low current lighting control switches. California Title 13 compliant. NOTE: Slide Bar Positions Control: 1. Rear (Upper and Lower) 2. Rear (Upper and Lower), All Upper, Front Wall or "Light bar" 3. All
14.02	1	Whelen SA315P high performance speaker, with bracket.
14.03	1	Whelen TLIR ION-T- Series™ Linear Super-LED® Red with clear outer lens & TIONFC chrome flange.
14.04	1	Whelen TLIB ION-T- Series™ Linear Super-LED® Blue with clear outer lens & TIONFC chrome flange.



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Item	Qty	
14.05	7	Whelen M6 series, M6RC (or current model), Linear Super-LED lighthouse with internal flasher, RED LED's with CLEAR outer lens. Includes M6FC chrome flange.
14.06	7	Whelen M6 series, M6BC (or current model), Linear Super-LED lighthouse with internal flasher, BLUE LED's with CLEAR outer lens. Includes M6FC chrome flange.
14.07	1	Custom fabricated bracket to mount M6 series light above windshield, painted to match body.
15.00		AUDIO / VIDEO:
15.01	1	Samsung 32" QLED TV QN32Q60AAFXZA with wall mount bracket. Product features: <ul style="list-style-type: none"> • Resolution 4K • (3) HDMI, (2) USB • (2) Speakers • DTV Tuner/ATSC / Clear QAM • Dimensions: 28.5"(W) x 16.8"(H) x 1.2"(D) Weight 11.7lbs NOTE: Rear room, centered between curbside workstations.
15.02	2	Samsung 50" QLED TV (QN50Q60AAFXZA) with wall mount bracket. Product features: <ul style="list-style-type: none"> • Resolution 4K • (3) HDMI, (2) USB • (2) Speakers • DTV Tuner/ATSC / Clear QAM • Dimensions: 44"(W) x 25.4"(H) x 1"(D) Weight 25.4lbs NOTE: Front conference room, one (1) per side
15.03	1	JACK® model OA8500 Digital HDTV Antenna + Mount with SureLock™ DTV Signal Meter. No crank up, built in Amplifier and 360° rotation for improved reception.
15.04	1	Kramer VS-44H2 4X4 HDMI Matrix Switcher. 4K HDR HDCP 2.2 NOTE: Inputs: (1) HDMI Input at front conference table leg Outputs: (3) TV's
15.05	1	HDMI input jack, wall plate and cable. NOTE: HDMI input jack at front conference room table leg to matrix switcher.
15.06		HDMI connection cables, as required.
15.07		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.



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Item	Qty	
16.00		<u>MAST AND MAST MOUNTED EQUIPMENT:</u>
16.01	1	Prewire and make installation provisions for customer installed mast on rear of vehicle. Includes: <ul style="list-style-type: none"> • Internal support structure for future mast install on rear of truck • Carlon Carflex ENT conduit routed from mast location to equipment rack cabinet for camera wiring (camera not included). • Receptacle for mast compressor on dedicated circuit (compressor not included).
17.00		<u>RADIOS:</u>
17.01		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.
17.02	2	Prewire and make installation provisions for communications radio. Installation includes: <ul style="list-style-type: none"> • 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. NOTE: One (1) driver One (1) rear curbside workstations #3/#4
17.03		Install hinged panels under countertops to conceal radio transceivers where applicable.
17.04		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, to be determined. Includes the following: <ul style="list-style-type: none"> • 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.
17.05	1	Magnetic microphone holder. Magnetic Mic MMSU-1. NOTE: Siren/light control microphone
18.00		<u>COMPUTER NETWORK AND EQUIPMENT:</u>
18.01	8	RJ-45 Cat6 computer network jack with Cat6 cable routed through Carlon Flex-Plus ENT conduit or raceway (as applicable). NOTE: <ul style="list-style-type: none"> • One (1) per workstation [qty. 4] • Two (2) conference table base • One (1) passenger front workstation • One (1) printer
18.02	1	Leviton 69270-U24 24-port Cat6 rack mount patch panel.
18.03		Certified 18" Cat6 patch cord. As Required.



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Item	Qty	
18.04	1	Cable Certification Report confirming that network wiring complies with Cat6 specifications.
18.05	1	Make installation provisions for customer owned 5G wireless router with single modem. Includes weathertight box mounted on antenna raceway or roof for future mounting of antenna.
19.00		<u>MISCELLANEOUS ELECTRONICS:</u>
19.01	1	Middle Atlantic SRSR-X-14 (or current model) fourteen (14) space 19" wide x 23.25" depth open framed EIA electronics equipment rack with sliding rail system and swivel base. Rack to easily slide out and swivel from its fixed position allowing full access to rack mounted equipment. 200lb weight limit.
19.02	1	Middle Atlantic PSDR-12 rack front door with key lock.
19.03	1	Middle Atlantic FTA-3 1 space fan tray, with three (3) 69 cfm ventilation fans.
19.04	1	Middle Atlantic PD-815SC-NS 15 amp power strip with eight (8) outlets. Includes PB-XS rack mounting bracket.
20.00		<u>EXTERIOR STORAGE COMPARTMENTS:</u>
20.01	1	Single door underbody storage compartment with approximate interior dimensions 12" high x up to 24" wide x 25" deep constructed from 0.125" aluminum with all welded seams. NOTE: Slide out pump
20.02	1	Single door underbody storage compartment with approximate interior dimensions 15" high x up to 48" wide x 25" deep constructed from 0.125" aluminum with all welded seams.
20.03		Compartments listed above will be constructed to the following specifications: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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.
21.00		<u>MISCELLANEOUS OTHER:</u>
21.01	1	15" wide roof access ladder mounted on rear. Ladder features: <ul style="list-style-type: none"> • All welded construction for maximum strength • 1" diameter X 0.083" brush finished tubular aluminum rails • Aluminum grip-strut rungs
21.02	1	Heavy-duty Quadra Mfg. Bigfoot® four point fully automatic one-touch leveling system. Includes: <ul style="list-style-type: none"> • Four (4) QEII-21 jacks with 17,000-lb. capacity each, 21" long with 15" stroke • Fully automatic control panel with manual feature • Safety interlock when jacks are deployed
21.03	1	Set of four (4) Super Dolly Pads high density polypropylene, injection molded yellow colored for use with leveling system jacks. Pads measure 15" x 17" x 1" thick with a grab strap on one side.



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Item	Qty	
21.04	2	5 pound dry chemical fire extinguisher.
21.05	2	Battery powered combination Carbon Monoxide and Smoke alarm.
21.06	1	<p>Complete manual set, including the following (as applicable):</p> <ul style="list-style-type: none"> • 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. • Chassis and generator maintenance and service logs. • Battery maintenance information. • All individual component manuals and warranty registration cards as provided by component manufacturers. Customer is responsible for completing warranty cards and mailing them to manufacturers.
21.07	1	<p>TRAINING. An LDV representative will provide up to four (4) hours of orientation on LDV provided systems, as applicable:</p> <ul style="list-style-type: none"> • Generator start up and shut down procedure • Leveling system operation • AC and DC electrical systems operation • HVAC systems operation • Audio/Video system operation, does not include programming DVR's, TV's, etc.
21.08		LDV warranty of one (1) year/12,000 miles, whichever comes first, for manufacturer's defects in materials and workmanship. Refer to LDV warranty statement for details of warranty coverage.
21.09		<p>Note: Project scope does not include certain tasks or costs that are the responsibility of the customer unless clearly specified as LDV supplied. These items include, but are not limited to:</p> <ul style="list-style-type: none"> • Radio and telephone system programming. • Activation and service fees for cellular telephones, satellite telephones, satellite TV, satellite internet access. • Loading and configuring computer software. <p>In the event of a discrepancy between the drawing and specification, the specification will supersede. LDV reserves the right to make substitutions of equal quality and specifications of those listed in this document.</p> <p>Some component models change frequently. In the event that a specified component model becomes unavailable at the time LDV attempts to source it, LDV will provide a replacement model with equivalent or better features, as agreed upon with the customer.</p>