

**PURCHASE DESCRIPTION  
DEPARTMENT OF DEFENSE  
JOINT SERVICE LAW ENFORCEMENT EQUIPMENT STANDARDIZATION  
PATROL + MWD SUV VARIANT  
DOD-5**

**01 SEPTEMBER 2016**

**INSTRUCTIONS TO CONTRACTOR:**

The contractor shall explicitly and completely identify any and all exceptions taken to the requirements of this specification. Drawings, literature, and any other information submitted with an offer do not constitute a stated or implied exception unless specifically identified in writing as an exception and accepted and implemented by an amendment to the solicitation or modification to a contract. Any exception deemed acceptable by the Government shall only apply to the specific item, requirement, etc. cited, and shall not extend to any other requirement.

The contractor proposing other than brand name items identified, when an "or equal" may be acceptable, shall furnish with their offer all technical data information, product descriptions, etc. to ensure that a determination may be made as to the equality of the product(s) offered (see clause titled Brand "Name or Equal" set forth in Section 52.211-6 of the Federal Acquisition Regulations.)

**1.0 SCOPE**

This product description is for SUV Patrol and Military Working Dog (MWD) variant. GSA Fleet will acquire and lease to DOD, GSA Item 100L fully equipped law enforcement vehicles as specified within.

**2.0 APPLICABLE DOCUMENTS**

**2.1 FEDERAL STANDARDS AND CODES**

Code of Federal Regulations 49 CFR 393 (FMCSR) and 571 (FMVSS)

Application for copies of DOT publication should reference the code of Federal Regulations, 49 CFR, and the Federal Register and should be addressed to the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

They may also be accessed on the Internet through GPO Access at <http://www.access.gpo.gov>.

**2.2 SOCIETY OF AUTOMOTIVE ENGINEERS, INC.**

J1292 - Automobile, Truck, Truck-Tractor, Trailer, and Motor Coach Wiring

Application for copies of SAE publications should be addressed to: SAE, Inc., 400 Commonwealth Drive, Warrendale, PA 15096

**2.3 ARMY REGULATION**

Army Regulation 190-11

Physical Security of Arms, Ammunitions, and Explosives

Application for copies of Army publication should reference the code of AR190-11 should be addressed to the Provost Marshal General (DAPM-MPP-PS), 2800 Army Pentagon, Washington, DC 20310-2800

**2.4 NATIONAL TRUCK EQUIPMENT ASSOCIATION**

ULTRAMOD Spreadsheet

Application for the NTEA ULTRAMOD spreadsheet should be addressed to: NTEA, 37400 Hills Tech Drive, Farmington Hills, MI 48331-3414

**2.5 ORDER OF PRECEDENCE**

In the event of a conflict between the text of this purchase description and the references cited above, the most stringent requirements, as determined by the government, takes precedence. Nothing in this purchase description, however, supersedes applicable state and federal safety laws and regulations and the requirements set forth in the OEM's Modifier/Upfitter Guide.

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**3.0 REQUIREMENTS**

Materials shall be as specified herein. When materials are not specified, the vehicle and all parts thereof shall be furnished to provide the intended function, durability, safety, and maintain good long-term appearance. All materials shall be new, shall be suitable for the intended purpose, and shall be free of any characteristics or defects in material and workmanship, which may affect the performance, function, durability, and serviceability of the finished vehicle, or detract from its appearance. The government reserves the right to make the final determination of the suitability of all components and their arrangement on and in the vehicle.

All conversions and modifications shall conform to all requirements of the OEM's Modifier/Upfitter Guide. The contractor shall ensure that the application and installation of major subcomponents and systems is compliant with subcomponent vendors' requirements and recommendations.

**3.1 BASE CONFIGURATION VEHICLE**

GSA Standard Item 100L.

GSA Options:

- DTG
- FLED
- RDI
- SLED
- DDRL
- AC2
- AREQ

**3.1.1 CONTENT**

OEM and/or aftermarket kits, components, and harnesses shall provide the following features:

- 100 watt siren speaker includes bracket
- prewire for grille lights, siren, and speaker
- grill LED lights, red and blue
- rear quarter glass side marker lights, DS red/PS blue
- front headlight solution including high beam wig wag and two (2) white LED side warning lights
- tail lamp lighting solution includes halogen base lights plus two (2) integrated side warning LEDs
- rear lighting solution lift glass & interior liftgate lip, DS red/PS blue
- cargo wiring upfit package
- police wire harness connector kit front
- police wire harness connector kit rear
- front warning auxiliary lamps (R) (B)
- forward indicator pocket lamps (R) (B)
- rear view camera viewable in rear view mirror
- hidden door lock plunger- rear door handles inoperable
- rear console plate with channel for wiring
- wiring harness with two (2) 50 ampere barrier and ground circuits in rear

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- Whelen Cencom Light Controller head with dimmable backlight
- Whelen Cencom Controller CCSRN3T3
- Whelen Light Controller with additional I/O pigtail
- Whelen WECAN control cable
- police engine idle with key removal

**3.2 AREQ AFTERMARKET CONTENT, GENERAL REQUIREMENTS**

The contractor shall procure all required resources, supplies, equipment, and perform all equipment installation to produce the vehicles. The base vehicles will be shipped from the OEM to the place of performance. The work shall be executed at a single location to assure uniformed installation processes. The effort includes installing communications, electrical, lighting, and support equipment to produce fully-functional vehicle capable of supporting law enforcement operations. The vehicle shall meet all applicable DOT and FMVSS safety standards after modification. Modifications shall not disable vehicle OEM features, unless specified within.

**3.3 CENTER CONSOLE**

One (1) center console shall be provided, Troy Products model CC-UV-L-18, or equal, shall be provided. The center console shall include an armrest, cup holder, filler plates, mounting for siren control, two (2) power ports for 12-volt ignition, USB and Aux input jack for mobile devices (may be on OEM dash or console), mounting provisions for warning and flood light controls, and a 300 watt inverter. The center console shall be installed in accordance to manufacturer's instructions between the two front seats.

Picture is for reference only.



**3.3.1 CENTER CONSOLE ACCESSORIES**

The center console shall include mounting and installation provisions for the following equipment.

- a. One (1) Troy Products model FP-MXTL5000, face plate for Motorola XTL5000 radio head

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- One (1) Troy Products model FP-MCM7200, face plate for Harris MACOM 7300 radio head (ship loose)
- b. One (1) Whelen Cencom remote control head
- c. One (1) Troy Products model FP-WCENCOM-JD face plate
- d. One (1) Troy Products model FP-AP2, 3" face plate with two (2) DC outlet holes
- e. Two (2) Troy Products model L3-AP1SET, DC outlets
- f. One (1) Troy Products FP-BLNK1, 1" filler plate
- g. One (1) Troy Products FP-BLINK2, 2" filler plate
- h. One (1) Troy Products AC-INBHG, 4" internal dual beverage holder
- i. Two (2) mic clips (siren and radio)

**3.4 RESERVED**

**3.5 WEAPONS LOCKER AND VARI KENNEL PROVISIONS**

One (1) long gun weapon locker shall be provided and installed in the rear cargo area, Boss Strong Box model 7126-7530. or equal. The locker shall be installed on top of the specified cargo mount in a location providing sufficient clearance so it may be opened with large vari kennel loaded. The locker shall include carpet, rigid foam, compression handles, and push button lock. The locker shall secure the M16 rifle with M68 or M150 optics, using the TACOM approved M16 collapsible butt stock conversion kit, the M4A1 rifle with M68 or M150 optics, and the M4 rifle with M68 or M150 optics.

The dimensions and location of the weapons locker shall allow transport of an extra-large portable kennel, Vari type kennel, with the following dimensions 36" length x 24" width x 30 " height. Anti-skid material shall be provided on top of the specified cargo mount. Tie down provisions and ratchet straps shall be provide to secure the Vari type kennel.

The weapon mount shall secure the weapon with a unique styled key-locking mechanism, which requires a unique specific key to open (or release) and secure. The weapon mount shall utilize keys and key control security measures as defined in Army Regulation 190-11. Combination or cypher locks are not acceptable.

The mounting location and orientation of the weapons locker and kennel provisions shall be reviewed and approved by GSA/DOD at the design review meeting.

Dimensions of the rifles are for reference only.

M16-A4 with ACOG or EOTech	Length 39.5" / Height 11.5" with mag inserted.
M4 with ACOG or EOTech	Length 33" with full stock extension/ Height 11.5" with mag inserted
M16-A2 with carry handle	Length 39.5" / Height 10.5 "with mag inserted
M4 with carry handle	Length 33" with full stock extension / Height 10.5" with mag inserted

Picture is for reference only:

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**3.6 REAR CARGO MOUNT**

One (1) tilt-up cargo mount, Troy Products model CP-UV-CARGO-XL, or equal, shall be provided in the rear cargo area. One (1) tip-down electronics tray, Troy Products model AC-UV-TRAY-H, or equal, shall be provided under the rear cargo mount.

Picture is for reference only.



**3.7 MWD PROVISIONS**

One (1) canine platform with window guards and door panels, American Aluminum E/Z Rider, model PF-Interceptor SUV (EZPF\_INTERC.SUV\_11-16), or equal, shall be provided and installed. The platform

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shall be constructed from 0.125 inch mill finish aluminum. Delete the manufacturer's standard water bowl and do not install the mounting provisions.

The platform shall include a front sliding emergency escape door on sliding track with spring loaded locking system. . A fixed platform shall be provided in front of the escape door to improve canine leg safe ease of egress.The back panel shall be made of mill finish aluminum. A seamless spill-proof base pan fully welded, shall be contoured to allow canine leg safe ease on entry and exit. The base shall extend door sill to door sill utilizing all available space and allowing for easy rinsing and cleaning without damage to the vehicle. The canopy shall include a punch design allowing for maximum airflow from the vehicles OEM rear A/C and heat. All platforms shall include contoured window guards and door panels. The window guards shall be powder coated black and hinged either on top or bottom to allow for easy cleaning and maintenance. The door panels shall be contoured, smooth, flat design. All mounting shall be tool fastened. All sharp edges shall be deburred.

The front partition shall include clear perforated plastic guards behind the driver and passenger head rests, full height of the sections of the partitions. The guards shall prevent the canine from accessing the seating head rests. The guard shall be installed on the forward side of the partition.

One (1) custom rubber mat liner, American Aluminum, model E/Z Rubber Mat, or equal, shall be provided.

One (1) temperature monitor, alarm, fan, shroud, and control module, American Aluminum, model E/Z Coolguard Temp Monitoring and Alert, or equal, shall be provided and installed. The fan's exhaust shall be located on the passenger side rear door. The exhaust fan shall be fully shrouded, five interior sides. The fan shall be thermostatically controlled with user adjustable range of 87 to 92 degrees F. The window shall be automatically controlled via the thermostat, ie: opens when the fan is energized. The system shall be installed in accordance to the manufacturer's instructions.

One (1) remote pager with control, antenna, and cabling, American Aluminum, model E/Z Coolguard Pager, or equal, shall be provided and installed.

The rear doors shall be equipped with locks with remote disable, labels shall be provided identifying release mechanisms.

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**3.8 RESERVED**

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**3.9 RADIO PREP PACKAGE**

DOD shall provide and install, after acceptance and delivery, the radio, control head, and microphone of their choosing after delivery. The contractor shall provide and install 12VDC power provision for radio installation in the console and rear cargo area (Battery + /- and Switched Ignition both locations). The cable ends shall be a minimum length of 18 inches.

The contractor shall provide and install one (1) single band antenna kit with frequency a minimum range of 380 to 470 MHz. Coaxial cable shall be provided and installed from the antenna to the trunk. The trunk end of the cable shall be terminated. The rear cargo cable end shall be a minimum length of 18 inches.

The contractor shall supply and install the following radio remote mount cables routed from the head (console) to the base (equipment tray). One (1) Motorola model HKN6169B, 17 feet length. One (1) Harris model CA-009562-030, 30 feet length.

**3.10 DC ELECTRICAL SYSTEM**

All DC wiring shall be in accordance with the applicable portion of SAE J1292.

All DC wiring mounted to the chassis or outside the body shall be stranded copper conductors.

All DC wiring shall be routed in flexible loom or conduit (tie wraps are not acceptable) and in accordance to the OEM's Body Builder Layout Book.

All wiring shall be secured to prevent snags and pinching that could damage or disconnect the wire.

The wiring terminals used in all DC wiring shall grip the wire insulation as well as the conductor.

Fasteners, conduit, and conduit fittings for electrical wiring shall not exhibit electrolysis with adjacent materials.

Exterior wiring shall be accessible for replacement without removing any component of the SUV.

Grommets or electrical bulkhead fittings shall be employed for any wire passing through a structural member.

All DC wire shall be color-coded as specified in SAE J1292.

The wire and circuit breaker size shall be as follows:

<b>WIRE SIZE (MINIMUM)</b>	<b>CIRCUIT BREAKER (MAXIMUM)</b>
18 AWG	5 AMPERES
16 AWG	10 AMPERES
14 AWG	15 AMPERES

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12 AWG	20 AMPERES
10 AWG	30 AMPERES
8 AWG	50 AMPERES

Corrosion protective coating shall be applied between ground lugs and the vehicle chassis.

Electrical conductors and cables routed in conduits and looms shall be continuous in length, connections, taps, splice, terminations shall not be concealed in conduit or loom unless reviewed and approved in advance by the government.

Conductors and cables may be terminated with the electrical/electronic devices' mating type connector or the vehicle OEM approved and released wire splice tool kit and procedures. Otherwise, the use of aftermarket butt splice, push-on (spade), bullet, ring, insulation displacement types of connectors are prohibited unless reviewed and approved in advance by the government.

Conductors and cables, rated up to 20 amperes, shall be terminated with weather pack environmentally sealed electrical connection system. Weather pack flexible pin and sleeve terminals with dual locking tangs shall be installed with calibrated ratchet type crimpers. Self-lubricating seals shall be installed on all-weather pack terminals. Connector housings shall be either in-line or panel-mount types.

The DC system shall be installed in accordance to the OEM's Police Modifier/Upfitter Guide.

**3.11 DC ELECTRICAL DISTRIBUTION AND CONTROL**

In addition to the OEM provisions, 12VDC power circuits shall be provided and prepped for the specified up-fit items, including but not limited to radio, radio chargers, weapon rack and the emergency light/siren system. Switches shall be located on dash, near the dash, or the console. Multiplexed wiring systems shall be installed to the extent possible. Final locations of all outlets and switches shall be reviewed and approved at the Verification Design Review meeting.

A programmable time delay off relay shall be provided and installed. The off time delay shall be programmable and user adjustable for a period up to 8 hours. The relay shall be controlled via the vehicle ignition. The relay shall be rated a minimum 30 amperes at 12VDC. The specified radio, warning light/siren, and computer power supply systems shall be connected to the relay.

An inverter, rated a minimum 300 watt 12VDC to 120VAC, shall be provided and installed. The inverter input shall be hard-wired into the vehicle's electrical system. Two 120VAC outlets shall be provided and the locations may be remote from the inverter. The mounting location of the inverter and the location of outlets shall be reviewed and approved by GSA/DOD at the design review meeting.

**3.12 EMERGENCY LIGHTING AND PA/SIREN**

The vehicle shall be equipped with a complete all LED emergency lighting system, Whelen, or equal, with siren and PA and other controllers, relays, harnesses, and up-fit items as required. The system shall only draw power from the vehicle battery when the ignition switch is in the "On" or "Run" positions. All equipment shall be installed in full compliance with manufacturer's guidelines and recommendations. The siren shall be equipped with a horn ringer sequencer feature, allowing the driver to scroll through wail, yelp, and phase tones by tapping the vehicles horn for "hands-free" control when the siren selector is in the standby position. The system shall be installed in accordance to OEM's Modifier/Upfitter Guide. The

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installation shall include the integration (cables, connections, and programming) of the features specified in section 3.1.1.

Detailed layout and electrical schematics shall be created depicting the design solution. The mounting clip for the PA microphone shall be mounted higher than the leg, in the knee area, within center reach of driver and front passenger. The installation, mounting, and software configuration for the emergency lighting system and siren shall be reviewed and approved by the GSA/DOD at the Verification Design Review meeting.

The Whelen Cencom controller shall be installed on the equipment tray included with the specified rear cargo mount (section 3.6)

The emergency lighting and siren system shall include:

ITEM	BRAND	MODEL	QTY
Rooftop Lightbar - LED/RED/BLUE + Alley + TakeDown + Traffic Arrow, 17 LED module total	Whelen Justice Competitor	JE8 SP2J + JDCR + JDCB	1

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**3.13 ANTI-THEFT SYSTEM**

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The vehicle shall be equipped with an anti-theft system that maintains functionality of all electronic functions including environmental controls, radios, lights, computers, etc..... without leaving the vehicle vulnerable to theft. The system shall be activated anytime the key is removed from the ignition. The alarm shall be a Pro Guard Safestop system, model SS0002, or equal. This requirement may also be fulfilled with an OEM solution such as a police engine idle with key removal feature.

**3.14 FIRE EXTINGUISHER**

One (1) 5 pound minimum fire extinguisher, BC dry chemical, shall be mounted in the rear cargo area. Location and fastening solution shall be reviewed and approved by GSA/DOD at the design re view meeting.

**3.15 VEHICLE OPERATOR, PREVENTIVE MAINTENANCE, SERVICE, PARTS AND ELECTRICAL SCHEMATICS MANUALS**

The operator's manual and full shop parts and service manuals shall be provided for each vehicle, in electronic formats. In addition, operating and maintenance manuals for all body installed equipment/systems and components shall be furnished with each vehicle. Literature shall include all systems and component items furnished on the vehicle including but not limited to the following: the Operator's Manual, Service Manual, Parts Catalog, Lubrication Charts, base vehicle modifications and upgrades, hydraulic system, generator system, converter, breaker panel, lighting components, a/c system, heater system, and any other component furnished. The service manuals shall include 12 VDC and 115 VAC as built wiring diagrams. All body, sub-systems, and equipment requirements described above shall be collected, sorted, and functionally organized in electronic formats.

Manuals shall be well organized, thoroughly cross-indexed and authentic with no extraneous material such as advertisements or irrelevant information. All publications shall be submitted in electronic format in the form of CD-ROM disks. Within the manuals, the vehicle s shall be treated as a whole and not as a grouping of disassociated parts from various suppliers. It shall be the responsibility of the contractor to insure that all of the suppliers' subsystems are presented in sufficient detail to present a complete and clear picture of the whole vehicle and that terms and functional designations of wires and components are consistent throughout. The material in all manuals shall be identically organized and indexed with compatible numbering.

**QUANTITIES AND TYPES OF MANUALS**

The manuals below are required for each vehicle and shall be provided to the Government in the quantities and categories as follows:

Operator's Instructional Manual Preventive Maintenance Manual Service Manual The Service Manual shall include the following:

System Interface Diagrams, Mechanical

Diagnostic and troubleshooting

Parts Manual Electrical Schematics Manual

One electronic copy of each manual and schematics shall be provided

**3.15.1 VEHICLE OPERATOR'S INSTRUCTION MANUAL**

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The Operator's Instruction Manual shall contain all information needed for the optimum operation of the vehicles; including general vehicle familiarization material, location, function, and operation of all controls, indicators, switches, and emergency procedures and trouble diagnoses.

The manual shall be logically organized with systems and elements considered in descending order of importance. Care shall be taken that all statements are clear, positive, and accurate with no possibility of incorrect implications or inferences

**3.15.2 VEHICLE PREVENTIVE MAINTENANCE MANUAL**

The Preventive Maintenance Manual shall enable the maintainer to perform the periodic inspection and preventive maintenance tasks. These shall include all lubrication and inspection requirements for all apparatus requiring such work on a periodic basis to maintain the vehicle s in satisfactory working order. The contractor shall ensure that all apparatus supplied has an inspection interval determined by the component manufacturer.

The manual shall contain a detailed description of each component to enable a maintainer to maintain, the vehicle. The manual shall include a complete systematic procedure for long term periodic maintenance requirements for all components.

**3.15.3 VEHICLE SERVICE MANUAL**

The Service Manual shall enable the technician to perform diagnostics and repairs of the completed vehicle. The Contractor shall ensure that all apparatus supplied is covered by the manual.

The Diagnostic and Troubleshooting section of the manual shall enable the technician to troubleshoot, adjust, and complete running repair for all systems on the vehicles. Running repair is the diagnosis and correction of any subsystem or component malfunction by adjustment, repair or replacement in order to return the vehicle to service in a reasonably short period of time. The section shall include a general description and operation of each system, block diagrams, signal flow diagrams, detailed schematics with narrative and functional wiring and piping diagrams.

**3.15.4 VEHICLE PARTS MANUAL**

The Parts Manual shall enumerate and describe every component with its related parts and Contractor part numbers. Supplier part numbers shall be included in their respective manuals. Cut-away and exploded drawings shall be used to permit identification of all parts not readily identified by description. Each part or component shall be identified as being part of a functional group. An important aspect of the parts catalog shall be the complete itemization of all servicing materials (oils, paints, special compounds, greases, other) required on the vehicles and the component requiring its use.

**3.15.5 VEHICLE ELECTRICAL SCHEMATICS MANUAL**

The Electrical Schematics Manual shall enumerate and describe every component with its related electrical schematics and Contractor electrical schematics. Supplier schematics shall be included.

**3.16 WORKMANSHIP**

- 1) Vehicles shall be free from defects that may impair their serviceability or detract from appearance.
- 2) All bodies, systems, equipment and interfaces with the chassis shall be done in accordance with the OEM's Body Builders Book. Whenever dissimilar metals are used, they shall be insulated against corrosive action.
- 3) All components shall be new. Defective components shall not be furnished. Parts, equipment, and assemblies, which have been repaired or modified to overcome deficiencies, shall not be furnished without the approval of the purchaser. Component parts and units shall be manufactured to definite standard dimensions with proper fits, clearances and uniformity. Welded, bolted, and riveted

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construction utilized shall be in accordance with the highest standards of industry. General appearance of the vehicle shall not show any evidence of poor workmanship.

- 4) The following shall be reason for rejection:
- a) Rough, sharp or unfinished edges, burrs, seams, corners, and joints.
  - b) Non-uniform panels. Includes edges that are not radiused, beveled, etc.
  - c) Paint runs, sags, orange peel, "fish eyes", etc., and any other imperfection or lack of complete coverage of paints or coatings.
  - d) Body panels or components that are uneven, unsealed, or contain cracks, dents or have voids.
  - e) Misalignment of body fasteners, glass, viewing panels, light housings, other items with large or uneven gaps, spacing etc. such as door, body panels and hinged panels.
  - f) Improperly fabricated and routed wiring or harnesses, and electrical connections.
  - g) Improperly supported or secured hoses, wiring harnesses, mechanical controls etc., including interference with other components.
  - h) Interference of chassis components, body parts, doors, etc.
  - i) Leaks of any gas, vacuum, or fluid lines (air conditioning, coolant, oil, etc.).
  - j) Noise, panel vibrations etc.
  - k) Inappropriate or incorrect use of hardware, fasteners, components, or methods of construction.
  - l) Incomplete or improper welding, riveting or bolting.
  - m) Lack of uniformity and symmetry where applicable.
  - n) Loose, vibrating, abrading body parts, components, subassemblies, hoses, wiring harnesses or trim.
  - o) Improper interface with the chassis that could cause injury during normal use or maintenance, and which fail to provide access to perform routine or mandatory repairs or maintenance on vehicle electrical and mechanical systems.
  - p) Sagging non-form fitting upholstery or padding, holes, tears, discoloration, etc.
  - q) Incomplete or incorrect application of rust proofing.
  - r) Visual deformities and equipment malfunctions.
  - s) Unsealed appurtenances or other body components, gaskets, etc.
  - t) In addition, any deviation from specification requirements or any other item, whether or not stipulated herein, that affects form, fit, function, finish, durability, reliability, safety, performance or appearance shall be cause for rejection.

**3.17 VERIFICATION REQUIREMENTS**

The contractor shall verify compliance to all of the requirements specified herein based on the following verification matrix. Verification may be in the form of production line bill of material, drawings, instructions, test results, vendor documentation, certifications, or design analytical data. The contractor shall not proceed with production before receiving agreement from the Government that verification of compliance is satisfactory. Acceptance of designs by the Government does not relieve the contractor from the contractor's responsibility to meet all the requirements and specifications herein, whether reviewed by the Government or not. The contractor shall assure all documentation produced results in the production of vehicles that are in compliance with these requirements and specifications.

ABBREVIATION	DEFINITION	WHEN REQUIRED
PAC	Post Award Conference	Contract Award + 5 Days

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VDR	Verification Design Review	After Receipt of Order + 30 Days
FVI	First Vehicle Inspection	
BOM	Bill of Material	At FVI

The type of verification to be submitted for acceptance is listed below:

ET (Engineering Test) – to be performed by the contractor and results accepted by the Government. Engineering tests are tests resulting in data output from engineering instruments used to take measurements of parameters such as temperatures, sound levels, etc. Verification may be in the form of an engineering report, test result sheet, or test summary with results documented.

COC (Confirmation of Compliance) – Validation by analysis or production builds documentation to be performed by the contractor and submitted for acceptance by the Government. Verification may be in the form of analysis summaries, build documentation, purchase orders, or similar written documentation.

QAPVT (Quality Assurance Performance and Verification Testing) – Testing to be performed and verified by the contractor to the Government. QAPVT tests are functional tests that do not involve instrumentation. The results are observable and recorded as pass/fail, i.e.; lights function as intended, etc. Systems or components that fail shall be annotated with the corrective action taken and retested until passed.

Government acceptances of verification and designs shall constitute design freezes and enable the contractor to proceed with production activities relative to the accepted designs. The design freeze shall be effective for the duration of the production of the entire quantity of vehicles being procured.

Verification Matrix

SECTION NO.	REQUIREMENT TO BE VERIFIED	TYPE OF VERIFICATION	WHEN REQUIRED
3.3 Center Console	Make, model, configuration, and functionality	COC	VDR/FVI
3.4 Reserved			
3.5 Weapons Mount & Vari Kennel Provisions	Make, model, configuration, and functionality	COC	VDR/FVI

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3.6 Rear Cargo Mount	Make, model, configuration, and functionality	COC	VDR/FVI
3.7 MWD Provisions	Make, model, configuration, and functionality	COC	VDR/FVI
3.8 Reserved			
3.9 Radio Prep Package	Make/model, configuration and functionality	COC/ET	VDR/FVI
3.10 DC Systems	Configuration	COC	VDR/FVI
3.11 DC Systems	Configuration	COC	FVI
3.12 Emergency Lights	Make, model, and functionality	COC/ET	VDR/FVI
3.13 Anti-Theft System	Make, model, and functionality	COC/ET	VDR/FVI
3.14 Fire Extinguisher	Rating, size, and mounting	COC	VDR/FVI
3.15 Operators, Servicing, and Parts Manuals	Configuration and content	COC/BOM	FVI

**4.0 TESTING, INSPECTION/ACCEPTANCE, AND TRAINING**

Every vehicle shall undergo testing and inspection prior to final acceptance of the by the Government. Testing and inspection shall be scheduled by the contractor and witnessed by the Government. The contractor shall provide a schedule and notice to the Government no later than 10 days prior to testing and inspection. All deficiencies identified during testing and inspection shall be documented and resolved prior to Government acceptance of each VEHICLE.

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**4.1 VEHICLE WEIGHT AND PAYLOAD ESTIMATES**

The completed vehicle shall be weighed to determine the curb weight and the available payload capacity and distribution. Occupant weight shall be calculated at 175 pounds per seated position. Data for all content shall be compiled, calculated, and recorded in accordance to instructions and format contained in the NTEA ULTRAMOD spreadsheet.

**4.2 VEHICLE ROAD TEST**

All vehicles shall be road tested. The road test shall be for a minimum of 10 miles. The road test shall be considered successful if all mounted and items remain secure and operational.

**4.3 VEHICLE IDLE TEST**

All vehicles shall be idle tested with all electrical equipment activated, emergency lights on (less siren). The idle test shall be for a minimum of 1 hour. The idle test shall be considered successful if all equipment and the vehicle remain functional (no shutdowns) and within normal operating (stable) temperatures and conditions. The ambient temperature shall be recorded.

**4.4 VOCATIONAL TEST**

For each vehicle, all equipment shall be functionally tested and verified to operate in accordance with manufacturer's operating instructions and to the government's satisfaction. All electrical equipment shall be tested and verified to operate to the government's satisfaction.

**4.5 TRAINING**

One (1) day of field training shall be provided for a minimum of six (6) government personnel at contractor's place of performance. Training shall be conducted by technicians with in-depth knowledge of the vehicles and equipment to ensure that all student questions are thoroughly answered. Training shall be a combination of classroom demonstration and hands-on use of the equipment. The contractor shall provide a training program, including but not limited to a training syllabus within 90 days after receipt of order. The contractor shall provide all materials required for the training of government personnel. A video of the training shall be provided to the customer at the completion of the training for customer use as a refresher. The video shall cover the same material and details as the class work. The training shall include written procedures on proper start up, operation, and shutdown of the vehicles. Training shall also include a recommended preventive maintenance schedule and procedures for the scope of work contained within.

**4.6 INSPECTION/ACCEPTANCE**

The contractor shall furnish a first order (FO) vehicle for verification as meeting the requirements herein. The FO shall be, prior to offering for verification by the Government, complete in every respect, i.e., all components, equipment, and accessories assembled and installed and operational. Prior to presentation, the FO shall be fully inspected for compliance with all contract requirements by the contractor's quality inspectors. Such inspection results, including any interim inspections, shall be documented and presented to the government representatives with the FO. Inspection results shall include all deficiencies found and the corrective actions taken. Upon Government approval of the FO, production methods shall assure that subsequent vehicles are identical to the approved FO. The inspection of the FO shall be videotaped or recorded by digital photographs and the video or photographs shall include pictures showing the assembly of all major subassembly components. After Government acceptance of the FO, the contractor shall only substitute materials, components, or assemblies upon government acceptance of such and embodied in a contract modification. Upon acceptance of the FO, the vehicle shall be shipped in accordance with shipment terms of the contract. The contractor shall produce two copies of the videotape or two copies of the digital photographs of the FO. One copy shall be retained by the

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contractor as an approved sample, the second copy shall be retained by the GSA Engineer. Failure of the FO to meet the requirements of the specifications may be cause for the Government to refuse acceptance of all vehicles until corrective action has been taken.

All vehicle orders shall be presented for Government verification of inspection, and shall be accompanied by documented evidence of contractor, interim and final inspection as required above for the FO. The government shall inspect and accept all vehicles.

The inspection of all vehicles shall occur at the contractor's place or performance, sub-contractor's or up-fitter's location. The contractor shall coordinate with GSA their plan and schedule for the inspection of the first order and all subsequent vehicles. Following GSA acceptance of the first order, the inspection activities for the balance of the vehicles shall be scheduled in batch lots (not one at a time) at mutually agreed upon quantities and times. The contractor shall provide GSA a minimum of 7 calendar day notice for requests for inspections. GSA acceptance shall occur no later than the due date on the Motor Vehicle Delivery Orders.

**5.0 WARRANTY**

The contractor shall provide a 3 year/36,000 mile warranty. The warranty shall include the commercial furnished equipment warranties, including all other parts and components required herein, against parts failure or malfunction due to design, construction or installation errors, defective workmanship, and missing or incorrect parts, for a minimum period of 3 years/36,000 miles from date of acceptance. Some components may require the purchase of an extended comprehensive warranty from the manufacturer to meet the minimum terms. If the contractor receives from any supplier or subcontractor additional warranty on the whole or any component of the vehicles, in form of time or mileage, including any prorated arrangements, or the contractor generally extends to its commercial customers greater or extended warranty coverage, the government shall receive corresponding warranty benefits. The warranty coverage shall begin when the Government accepts the vehicles from the contractor FOB point of origin/destination.

Labor, parts, shipping cost, per diem and travel for warranted repairs within the Continental United States (CONUS), shall be the responsibility of the contractor. This shall include 3rd party Original Equipment Manufacturer (OEM) selected vendors for corrective action or warranty issues on the vehicle if applicable. Warranty registration cards shall also be provided as applicable. The contractor shall furnish the Government with warranty certificates showing evidence that the warranty requirements above have been met.

**6.0 POST AWARD MEETINGS**

The contractor shall participate in a post award technical review meeting. Attendees typically include, but are not limited to, GSA engineering personnel, agency end user representative(s), and contracting personnel. The meeting will be scheduled by the GSA as soon after award of contract as practicable, but no more than 5 business days after award of contract.

The contractor shall also participate in a Verification Design Review meeting held at the contractor's offices or place of performance. Attendees typically include, but are not limited to, GSA engineering personnel, agency end user representative(s), and contracting personnel. The Verification Design Review will be scheduled by the GSA for 30 days After Receipt of Order. All drawings shall be signed at

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this meeting. The contractor shall not proceed with production until approval to proceed is given by the government after the VDR meeting.