

## **MINIMUM DETAILED SPECIFICATIONS**

### **SUV PATROL VEHICLE**

**Vehicle shall meet the following general specifications:**

1. Vehicle ordered shall include any other standard features not listed but detailed in the manufacturer's brochures and deemed necessary for the proper and safe operation of the vehicle.
2. Manufacturer's standard warranty of 36 months or 36,000 miles and powertrain warranty for a minimum of 60 months or 100,000 miles and a corrosion warranty for a minimum of 60 months or 60,000 miles from the date the vehicle is placed into service. Full coverage shall include costs of parts, labor and any other expenses incurred in performing warranty work. Warranty documents shall be delivered with the vehicle and shall detail manufacturer's obligation and warranty.
3. Contractor shall provide 1 copy of the owner operator manual at the time the vehicle is delivered. Hard copies are required if available. Electronic version is acceptable provided the electronic version is printable with no material omissions.
4. Vehicle shall include and comply with all Federal Motor Vehicle Safety Standards. Vehicle shall also comply with the Code of Federal Regulations, Title 40, Part 85: Control of Air Pollution from New Motor Vehicles and new Motor Vehicle Engines; Environmental Protection Agency.
5. Vehicle shall be completely serviced and in full operational condition upon delivery.
6. Accessory or standard equipment installed on the vehicle shall be fully guaranteed by the contractor against defects resulting from the use of defective or inferior materials or from neglect or from defective workmanship or against all design and manufacturing defects. Warranty period shall begin from the date equipment is placed in service and shall be for a minimum period of one (1) year or for the period guaranteed by the manufacturer, whichever is longer except for rust proofing. Warranty documents shall be delivered with the vehicle and shall detail manufacturer's obligation and warranty procedures. Contractor shall replace or repair defective material and/or workmanship at no costs to the State for parts and labor during the warranty period, provided such defects are not due to abuse or negligence on the part of the State.
7. All equipment offered shall meet ANSI and OSHA safety requirements, and any other Federal or State requirements. If applicable or when requested, equipment shall bear a label or written documentation indicating approval of safety requirements from a bonafide testing laboratory.
8. Manufacturer's standard corrosion protection warranty for a minimum of five (5) years, 60,000 miles and warranty documents.

Substitutions of the vehicle may be accepted if the all specifications are equal or exceeds the vehicle listed above and will be reviewed by Sheriff Division project manager prior to award.

1. Model: 2018 or later. Police Package production model, all wheel drive, meeting the minimum specifications herein.
2. G.V.W Rating: 6,000 Lbs. Minimum capacity.
3. Wheel Base 110 inches minimum, 160 maximum.
4. Engine 6 cylinder minimum, minimum 300 HP, Gasoline powered (Unleaded) with Flex fuel capabilities  
Factory heavy Cooling system, Coolant recovery System, Minimum 200 amp Alternator capacity.  
Minimum 275 torque lbs.
5. Miles Per Gallon: 15 city miles / 20 Highway miles per gallon.
6. Transmission: Minimum 5 forward speed 1 reverse speed automatic, four wheel drive, exterior transmission cooler.
7. Electrical System: 12 volt with Alternator capable of charging system battery at low engine speed.
8. Steering: Powered assisted with Stability Control System.
9. Brakes: 4 wheel anti-lock system, front wheel disk.
10. Tires & Wheels: Tires and Wheels shall meet manufacturer's and Federal GAWR requirements for GVW submitted.  
Traction assists vehicle stability system.  
Minimum 17 inch steel rim Front and Rear  
Full Size Spare tire.
11. Suspension Axles, springs and shock absorbers must meet Manufacturers and Federal GAWR requirements for the GVW submitted.  
Heavy duty suspension package.
12. Body, Interior 5 Passenger seating capacity.  
Dual front air bags (SRS).  
Standard upholstery.  
Full Headlining and side paneling.  
Driver's, front passenger and rear passenger's powered windows shall roll down electronically.

Gauge package.  
Factory standard radio.  
Factory front Air conditioning package (CFC Free).  
Accessory type front and rear rubber floor mats.  
Factory Darkest tinted glass package.  
Powered door locks.

13. Body, Exterior: Four side doors with rear lift door (SUV).  
Dual exterior rear side view mirrors.  
Reverse rear backup sensors (minimum: two sensors).  
Maximum vehicle height 86 inches.  
Minimum Ground Clearance: 6 inches.

14. Color Paint: Color to be determined at time of order.

15. Other: Minimum 17-gallon fuel Gasoline powered (unleaded) with Flex Fuel capabilities capacity.  
2.1/2 lb. ABC dry chemical fire extinguisher mounted on the removable brackets inside vehicle near to driver.  
All power door locks to be controlled by driver only, except that the front passenger door locks and window to be also operative by front passenger.  
4 sets of keys  
Operator's manual.  
Service and Repair manuals.

16. Emergency Response Equipment:

The contractor shall furnish and install the specified equipment. All labor, shop supplies, and equipment shall be provided for a fully functional system on each vehicle at time of delivery.

Scope of work:

The installing subcontractor shall provide initial installation / programming of equipment. Post installation local warranty service on the aftermarket emergency lighting and siren equipment specified during the manufacturers printed warranty period for equipment installed. All LED modules shall have a 5 year printed warranty. Installer shall meet with officer in charge prior to equipment installation to confirm layout, switch sequence, and programming. All work shall be done on island of Oahu.

## Equipment Specifications:

### Siren Amplifier and Switch Control

Whelen CanTrol CANWC1 w/ CANCTL6 and (2) SA315P. Siren shall be installed and programmed according to instructions provided by the officer in charge

### Siren Speaker and Bracket

Whelen model SA315P 100 watt composite speaker, and Whelen speaker bracket, shall be installed on the Setina push bumper specified.

### Low Frequency Siren

Whelen model HWLFE13 Howler series low frequency siren shall be added onto the primary siren. Shall include 8 selectable tones, amplifier and one speaker mounted in OEM location pursuant to modifier guide.

Timing cycle duration, and activation pursuant to officer in charge.

### Super LED Lightbar

Whelen model GB2SP3JHIPSD 54" Duo Legacy series fully populated with The lightbar shall have a combination of:

four (4) Multi Angled corner Linear18 LED lamps [2 B/W / 2 R/W];

sixteen (16) Long DUO+ Modules [4 R/W, 4 B/W, 4 A/R, 4 A/B];

four (4) Short DUO+ Modules [1 R/W, 1 B/W, 1 A/R, 1 A/B];

two (2) Super-LED DUO+ Flashing Alley Lights [1 B/W, 1 R/W];

The main structure of the lightbar must be one-piece extruded aluminum bottom and three piece extruded aluminum top held on by 4 screws per side. Lightbars with plastic/polycarbonate tops are not acceptable. The lightbar shall house all electronic components. The lightbar shall measure a maximum of 1 5/8 inches high x 11 5/16 inches wide x 54 inches long excluding mounting brackets. The lightbar must have Hi/Low power control of any or all LED warning modules and must allow for individual control and switching of the LED Lighthoods to accomplish the progress intensity lighting required of the department. Lightbars that do not offer this feature are

not acceptable. Adjustable mounting kit for vehicle being bid.

### Remote light heads

Front push bumper specified shall have forward facing Whelen ION series, one IONR in red and one IONB in blue installed.

Front headlights shall have Whelen white IONC, or VTX series Super LED installed on each side. OEM dealer shall order option code 86P.

Side External Mirrors shall have a pair of Whelen model MBFX11RB Super LED's installed on the front of OEM mirrors.

Side interior cargo area shall have a pair of Whelen wide angle ION series with one each WIONR red, and one each WIONB blue, plus optional IONK1B swivel brackets installed, one on each side facing out.

Rear upper hatch area shall ISTRAY 10 Inner Edge 10 Module LED with the following colors: 2 Blue/2 Red/6 amber. Appropriate mounting brackets shall be furnished and used to mount light assembly. LED color module locations shall be consulted with Sheriff Division Representative prior to ordering.

Lower hatch door shall have a pair of grommet mounted Whelen wide angle ION series mounted in lower hatch so visible when hatch is opened. One each WIONR red, and one each WIONB blue with two each IONGROM grommet mounts.

Rear taillights shall have a pair of Whelen Model VTX609C mounted in rear taillights reverse light housings, one on each side. OEM dealer shall order option code 86T with vehicle.

### Push Bumper

Setina model BK2017ITU16 PB450L2 – Whelen ION two light forward facing (red / blue), with optional model PB9323 siren speaker bracket only (for Whelen SA315P speaker) installer provided.

### Prisoner Partition and Rear Seat

Install Setina model PK1130ITU12TM #10XL "Tall man" front partition with coated Polycarbonate upper window. Install Setina model QK2120ITU12 Replacement rear seat with #12 rear partition in front cargo area. Install Setina Smart Belt Electronic option with rear belts. Shall include warning light when rear belts are unlocked.

### Window Barriers and Door Guards – Prisoner Area

Install Setina model WK0595ITU12 slotted Polycarbonate window barriers. One each rear door side window.

Install Setina model DK0100ITU12 TPO polymer door guards. One on each rear side door.

### Cargo / Firearms Management System

Install Setina model TK0244ITU12 ("TFN" Tray, Fixed with No Lock Upper Section and "BSC" Base, Sliding with Combination Lock Center Section) Cargo Storage System. Can accommodate M-4 rifle, 870 shotgun, or miscellaneous cargo. Mounting design is suspended above cargo floor, allowing unrestricted access to spare tire. Lightweight design utilizes Steel framework for strength, Aluminum Cargo Sections for weight savings. Requires Setina #12 rear partition for installation.

### Communication Console

Installer shall furnish and install a Havis Inc. model C-VS-1308-INUT communication console, including C-EB40-CCS-1P equipment bracket for Carbide control head and required filler plates, and radio equipment bracket. Optional C-CUP2-I cup holder, C-MAP-T-LED map light, C-ARM-103 arm rest, CM156600-08 fuse block, CG-X Chargeguard, C-LP2-PS1-USB outlet, C-AP-0325 accessory pocket. Two MC-B brackets with Magnetic Mic holders for the PA and radio mic shall be installed.

18. Kenwood VM6000: Vendor must provide Kenwood VM6000 mobile radio with AES encryption, P25 Phase 2 firmware to support Conventional and Trunking operations, programming to meet Sheriff Division communications requirements, and installation. Installation and programming to be approved

and coordinated with Sheriff Division project manager.

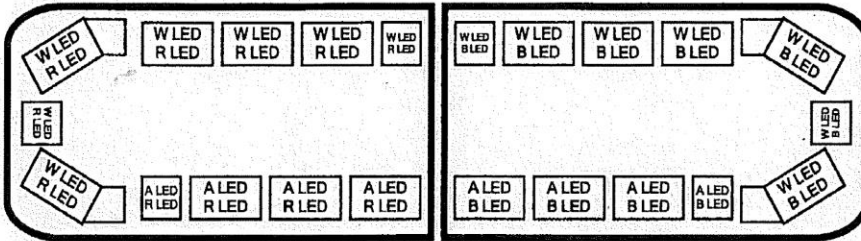
19. Custom Vinyl Decals: Development and production of 3M vinyl decals utilizing reflective control tach products. Item developed shall be reviewed by the Sheriff Division representative prior to production and placement onto vehicle to ensure specifications and products meets or exceeds what is currently in use by the Sheriff Division. Please see attached photograph for reference as what is expected to be developed and produced.



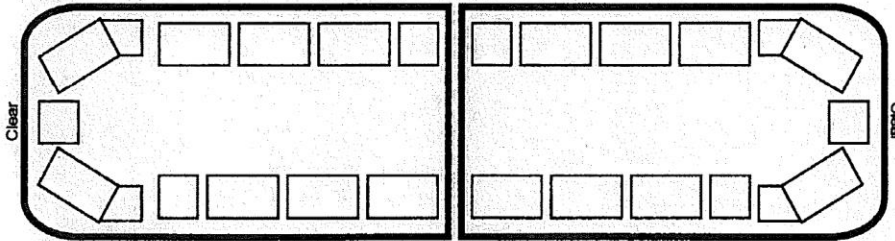
20. Manufactures Warranty (minimum) 3 year 36,00 mile bumper to bumper, 5 year 100,000 mile Drive train
21. Delivery: 90 days from the date of Purchase Order Award. The Department of Public Safety/Sheriff Division may impose a penalty of \$10.00 per day for each day beyond the delivery period.

## Legacy® WC Series Light Bar Order Form/Worksheet

### Configuration



### Lenses



### Internal Harness Connectors and Colors

