

Bid Specifications

GENERAL:

It is the intent of these specifications to describe a new and unused AWD or 4WD Police Utility Vehicle of the manufacturer's latest design and model in current production.

Bidder shall specify year, make and model of the vehicle he proposes to furnish, and must submit with his bid the manufacturer's latest published specification sheet and advertising literature describing the unit bid with color charts.

Bidder shall list on a separate sheet of paper any and all variations from, or exceptions to, these specifications regarding the proposed equipment. Any variations or exceptions shall be listed in the same order as the bid specifications to facilitate accurate study of the bid proposals. If the equipment differs from these specifications, such differences must be explained in detail and the bid will receive careful consideration, if such deviations do not depart from the intent of these specifications and are in the best interests of Essex County. The equipment offered in the bid shall be equal to or exceed these specifications.

Date of delivery may be considered when awarding a Contract. Bidder will state delivery date on his proposal form and must be prepared to guarantee delivery on or before that date.

Addenda will be posted on the Essex County Website, interested vendors are urged to check before submitting their bid.

Each bidder will need to complete, sign, have notarized and return the following documents with their Proposal:

- 1) Vendor Responsibility Questionnaire
- 2) Certification of Compliance With Iran Divestment Act
- 3) Non-Collusive Bidding Certification

Payment will be made within 30 days of delivery.

INSTRUCTIONS TO BIDDERS

Award of Contract

It is the intent of the Purchaser that this project be completed as quickly and economically as is feasible. A tabulation of the bids received will be prepared for consideration by the Purchaser. It is anticipated that the contract award will be approximately two [2] weeks after the date of the bid opening, or as soon thereafter as feasibly possible.

Bidder Qualifications

The bidders shall be actively and directly associated with the manufacture or distribution of the emergency lighting and vehicle systems, and shall have a full time staff of certified emergency vehicle technician[s] in Law Enforcement Vehicle Installation, and factory trained authorized representatives of the manufacture[s], capable of providing manufacturer's warranty and repair service on-site, or at Bidder's permanent place of business. The Bidder must be a direct manufacture, in good standing for all equipment provided, bidder[s] who purchase equipment from wholesale or third party representatives may be disqualified. Essex County, with concern to the best available price and service requires that bidder[s] be a direct dealer and representative. The Bidder must be a New York State Registered Repair Facility, have an enclosed service center capable of holding a minimum of five [5] vehicles and a completely fenced in lot capable of holding at least thirty [30] vehicles. The Bidder must use equipment manufactured in the continental United States, which have an established reputation of performance and reliability within the emergency, construction and law enforcement vehicle industry. Exception will be taken to special item[s] that would be unavailable within the continental United States, or overly cost prohibited. Items shall be called out as exceptions. No more than 10% of the equipment shall be manufactured outside of the continental United States.

Intent of Specification

It is the intent of these specifications to describe the minimum standards that are acceptable to cover the furnishing and delivery of the Purchaser [Essex County] a completed emergency vehicle as hereinafter specified. With a goal of obtaining the best results and the most acceptable equipment for service in our setting, these specifications cover the general requirements as to the type of construction, equipment, appliances and installation with which the successful Bidder must conform.

It is not the intent of these specifications to eliminate any qualified Bidder[s] that meets the minimum standards established in these specifications. As such, all Bidder[s] are encouraged to submit a bid proposal that meets or exceeds minimum standards of these specifications. It is not the intent of these specifications to favor one particular manufacturer or component or vehicle. Where a particular grade of material, component brand name, or component part number is specified within these advertised specifications, the same has been done to convey the desired quality and minimum standard acceptable. As such, it is understood that an "or equal" item is acceptable for each of these items, and must be stated in the exceptions portion within this specification. If the Bidder[s] include "or equal" equipment, components or materials, Bidder[s] must state the grade, brand or model for each item provided which is a substitute. The Purchaser shall be the sole judge in determination of acceptable substitutes.

The vehicle and equipment to be furnished in meeting these specifications must be the product of an established reputable manufacture and representative. The Bidder[s] shall show proof that they are in a position to provide prompt service to the equipment, material and equipment provided and installed.

The Purchaser reserves the right to accept or reject any or all bids. It is the Purchaser's intention to accept the bid that is deemed to best meet the needs and requirements of the Purchaser. It is anticipated that the bid award shall be given to the Bidder whose bid comes closest to meeting these specifications at the most competitive price.

Regulations

The completed emergency vehicle shall comply with all Federal, State and local requirements pertaining to vehicles used as emergency vehicles at the date of the bid proposal unless specifically changed by these

specifications. Said vehicle shall be designed to meet or exceed the industry standards and best practices for current model vehicles.

Quality & Workmanship

The design of the vehicle must embody the latest approved automotive engineering practices. The workmanship must be of the highest quality in its respective field. Special consideration will be given to the following points; accessibility of the various units which require periodic maintenance operations, ease of operation, symmetrical proportions, and warranty of work.

All equipment furnished shall be guaranteed to be new and of current manufacture, meet all requirements of this specification, and be in an operable condition at the time of delivery. All parts shall be of high quality workmanship, shall be in production at the time of bid. No part or attachment shall be substituted or applied contrary to the manufacturer's recommendations and standard practices. All workmanship shall be of quality and performed in a professional manner so as to insure a safe and functional apparatus with an aesthetic appearance.

All parts not specifically mentioned herein, but which are necessary in order to furnish a complete vehicle, shall be furnished and shall conform to the best practices known to the emergency vehicle industry. All items furnished shall be new and un-used.

Because the expectations are for the highest quality of workmanship, it is expected that all work done shall be completed by a full time employee holding Emergency Vehicle Technician [EVT] Certifications in Law Enforcement Vehicle Installation at a minimum. Bidder[s] shall attach proof of technician[s] holding such certifications when submitting bid.

Vehicle Wiring

All insulated cable will conform to SAE J1292 requirements and will have a high temperature thermoplastic insulation conforming to SAE J1127 and J1128. All wire will be of a gauge size to carry 125% of the current required without overheating. All wires are to be color coded and labeled every six [6] inches with functions corresponding to a drawing and schematic when part of the main vehicle emergency equipment power and lighting harness. Where practical, all wires will be routed in high temperature looms with a rating of at least one hundred [100] degrees Celsius. All connections within the main ground assembly shall be sonic splice joints, all other joints shall be a mechanical crimp. All wiring leads for the emergency warning lights and siren shall be home run to the siren and lighting controller and the harness shall have the direct plug and play connections to the unit. **NO EXCEPTIONS WILL BE ALLOWED.**

Installation & Protection

Wires must be grouped or harnessed where practical. Metal edges through which cables pass will be protected with nonmetallic bushings or grommets. All auxiliary circuits will be wired separate and distinct from the vehicle chassis circuits and color coded. All wiring will be clipped or otherwise attached at suitable intervals to prevent rubbing or chafing due to wire movement, vibration, etc. All wiring must be stamped; color coded and conforms to SAE 1292. **NO EXCEPTIONS WILL BE ALLOWED**

Warranty

Vehicle Warranty

The vehicle shall have no less than a three [3] year or thirty-six thousand [36,000] mile warranty, which ever should come first which shall be “bumper to bumper.” The power train shall have no less than a five [5] year or sixty thousand [60,000] mile warranty, which ever should come first. The representing manufacturer or representing dealer shall be responsible for all warranty claims and repairs for the specified vehicle.

Lighting Warranty

All emergency, scene, compartment and cab lighting shall have no less than a five [5] year warranty. All lenses shall have no less than at two [2] year warranty, guaranteed against defects, cracks and fading. Bidder[s] shall include warranty statement, and or manufactures warranty.

Lighting Controller & Siren Warranty

Lighting controller and siren driver shall have no less than a five [5] year warranty. Siren speakers shall have no less than an eighteen [18] month warranty, preferably no less than two [2] years. Bidder[s] shall include warranty statement, and or manufactures warranty.

Prisoner Partition & Cargo Partition

Prisoner & cargo partitions shall have no less than a three [3] year warranty which shall cover defects in the material or workmanship by the manufacturer. All coated polycarbonate windows used have a 7 year manufacturer’s warranty against breakage, coating failure, scratching and abrasion under normal use. All uncoated polycarbonate windows used have a 7 year manufacturer’s warranty against breakage.

Installation & Workmanship

Bidder shall warranty their work and installation against failures, defects or damage caused by installation for no less than five [5] years, or one hundred thousand [100,000] miles or decommission of the vehicle, whichever should come first. Bidder[s] shall enclose written warranty statement. Preference will be given to bidder[s] who provide warranties in excess of five [5] years.

Graphics, Chevron

Graphics or chevron shall be a 3M material, installed by a 3M certified installer, and shall be warrantied for the life of the vehicle. Graphics shall be defined as printed patches, unit identification numbers, custom license places, custom printing or logos.

Vehicle

Outline

The provided vehicle shall be a new 2015 model Ford Police Interceptor Utility. Bidder[s] shall not be eliminated if they bid vehicles which meet or exceed the specifications set for in this section. Vehicle

shall be a vehicle readily in use by other law enforcement agencies across New York State, and be specifically designed for the law enforcement application. The vehicle shall be a four [4] wheel drive or all-wheel drive model, no two [2] wheel drive models will be accepted. The vehicle shall meet or exceed the warranty specifications described in the warranty section of this document.

Chassis

1. Police Pursuit Suspension Package
2. Heavy Duty Frame
3. High-performance Police Tires and Wheels
4. Matching Full Size Spare
5. Rate Rear Crash Impact Testing of no Less than Seventy-Five [75] Miles an Hour

Mechanical

The provided vehicle shall have a mechanical system which has been designed and tested for use in a law enforcement application. The mechanical system shall have at a minimum the following:

1. 3.7 Liter V6 Engine
2. Engine Hour Meter
3. Cooling System
 - a. High Volume Radiator
 - b. Oil Cooler
 - c. Transmission Cooler
4. AWD Drive Train
5. Six [6] Speed Automatic Transmission
6. High Performance Police Calibrated Brake System
7. Alternator, No Less Than 220 Amperes
8. Eighteen Gallon or Greater Fuel Tank

Body

The provided vehicle shall have the following options which shall be included in the price of the vehicle.

1. Oxford White Color
2. Front License Plate Holder
3. Protective Body Side Moldings
4. LED Spotlight, Mounted to "A" Post
5. Side View Mirrors Shall be Electrically Controlled and Heated
6. AM/FM Radio Antenna Roof Mounted
7. Liftgate Access with Manual Lock Cylinder

Interior

1. Universal Equipment Tray Located on Dash.
 - a. Location should allow for the mounting of equipment such as radar or vehicle camera which shall not require holes to be drilled into the OEM Dash.
2. Seats
 - a. 1st Row Dual Buckets, Police Grade Cloth

- b. 1st Row Driver Six [6] Way Power Track
 - c. Built-in Steel Intrusion Plates in Driver/Passenger Seatbacks
 - d. Rear Seat Shall be Vinyl for easy cleaning
- 3. Power Adjustable Pedals
- 4. Heavy Duty Vinyl Flooring
- 5. Steering Wheel
 - a. Manual Tilt
 - b. Urethane Wheel Finish with Silver Painted Bezels
 - c. Steering Wheel Cruise Controls [If so Equipped]
- 6. Windows & Glass
 - a. Rear Windows, Rear Quarter Glass and Tailgate Glass Privacy Tinted
 - b. Drivers Window 1-Touch Down
 - c. Drivers Side Control of all Windows
 - d. Rear Windows Inoperable From Rear
- 7. Power Locks
 - a. Power Locks Controlled from Driver or Passenger Side
 - b. Rear Door Locks and Handle Disable

Safety

Because safety is of the utmost importance, the following safety provisions shall be provided in the specified vehicle. Any exceptions to the below must be specifically and thoroughly documented. Purchaser reserves the right to refuse bids any bid which shall fail to meet the below safety standards.

- 1. Roll Stability Control
- 2. Air Bags
 - a. Driver and Passenger
 - i. Preference for Passenger Disable Feature
 - b. Side Seat
 - c. Roll Curtain Air Bags
 - d. Safety Canopy
- 3. Belt Minder Monitoring both Driver and Passenger Seat
- 4. Tire Pressure Monitoring System
- 5. Anti-Lock Brakes with Traction Control
- 6. Rate Rear Crash Impact Testing of no Less than Seventy-Five [75] Miles an Hour
- 7. Exterior Key Locks
 - a. Drivers Side
 - b. Passenger Side
 - c. Rear Liftgate
- 8. Remote Keyless Entry
- 9. Noise Suppression Bonds
- 10. Courtesy Lamp Shall not Activate When Door is Opened
- 11. Rear View Camera, in Rear View Mirror

Functional

- 1. Wipers
 - a. Front Speed Sensitive, Intermittent
 - b. Rear Dual Speed

2. Recovery Hooks, Rear Only
3. Rear Window Electric Defroster
4. Factory Provided Power & Outputs
 - a. Front Power Pre-wire
 - i. Shall have no less than one-hundred [100] amperes of available 12VDC positive power available. Power point must be OEM installed and fused.
 - ii. Sufficient pre-wired chassis grounds shall be provided
 - b. Vehicle Speed Output
 - c. Park Detect
 - i. Park Detect must not require dealer or up-fitter to make any special connections other than to factory provided output. Output may be 12VDC positive or ground
 - d. Ignition Controlled Power Feed
 - e. Driver's Door Ajar
 - f. Brake feed
 - g. Rear Power Pre-wire
 - i. Shall have no less than one-hundred [100] amperes of available 12VDC positive power available. Power point must be OEM installed and fused.
 - h. Horn Ring Circuit
 - i. Dimmer Circuit

Vehicle Emergency Lighting & Equipment Outline

Unless specifically noted, all warning lights at a minimum shall be Class I rated and have clear hard coated polycarbonate lenses. Unless specifically specified all exterior warning lights shall have a clear outer lens with colored LED's. Where applicable, emergency warning lights shall be installed with a means of disconnect such that during normal service or vehicle repair the light wiring will not be cut to remove lighthouse[s].

Emergency Warning Lights

Siren Speaker

The siren speaker shall meet or exceed California Title XIII, Class A, and S.A.E. J1849 requirements for sirens. Unit shall be a 100 Watts speaker, capable of producing more than 120dB at a distance of ten [10] feet. Siren speaker shall also meet OSHA 1910.95 guidelines regarding "Permissible Noise Exposure". Siren speaker shall have a minimum of a 2 year warranty. Preference will be given to speakers mounted with vehicle specific brackets, however with the wide range of commercial chassis available, standard mounting brackets will be allowed. Siren shall be mounted in a location that allows for minimal sound impedance, and in a location which follows industry best practice.

One [1] Whelen SA315 Series Speaker or equal

One [1] Whelen SAK1 Universal Mount, Push Bumper or equal

Integrated Siren & Lighting Controller

Siren and lighting controller shall meet or exceed Class A requirements of SAE, AMECA, and California Title XIII specifications and have no less than a five [5] year warranty. Controller must be capable of

doing radio rebroadcast and have a push to talk [PPT] public address microphone. All warning lights shall be controlled directly by this unit, including the traffic advisor and scene lighting. Siren controller shall have hands free operation capabilities such that in emergency response mode the operator may press the DOT horn and change siren tones and lighting patterns. Siren controller must be capable of driving two [2] one hundred [100] watt sirens. System shall have a photometric sensor capable of enabling low power mode in night time operations that maintains SAE Class 1 warning light standards. The system shall have a load manager that shall monitor vehicle voltage and have the capability to shed parasitic loads that may prevent engine restart. Should emergency vehicle warning lights be activated and the vehicle's engine be off, the system shall be capable of creating an audible alert tone such that the officer is made aware of a low voltage condition. Lighting controller should have no less than two [2] calling right of way flash patterns, which shall be selected based upon siren pattern or selected push button. The system shall have a park kill mode such that when the vehicle is placed in park the siren is turned off and the lighting system changes to a blocking mode. The light controller shall be programmable so that the purchaser may change the flash patterns at a later date without the purchase of additional parts, controllers or modules. Bidder[s] shall be a Whelen Certified CanTrol distributor.

One [1] Whelen CanTrol® WC Light and Siren System or equal

One [1] Whelen Photometric Sensor or equal

Grill Lights

Grill lights shall be Red and White, capable of independent control and fully illuminate the head, and shall have no less than three [3] square inches of lens area, and have no less than a five [5] year warranty. The light heads used shall meet or exceed the specifications set forth in CAC Title 13 Article 22, SAE J595 and SAE J845. Housing shall be a die cast aluminum and powder coated for corrosion protection. There shall be two [2] grill lights recessed into the push bumper. Grill lights shall be configured such that two [2] face forward. The grill lights shall have a means of disconnect such that the push bumper may be removed with the lights still mounted without having to cut to controlling wires.

Two [2] Red/ White Whelen ION™ DUO Series Super-LED® Universal Light or equal

One [1] Deutsch Connector, Eight [8] Pin or equal

Roof Mounted Lightbar

Roof mounted lightbar shall meet the requirements of SAE Class I in both high and low power modes. Lightbar shall be permanently hook mounted through the vehicle rain rails, with the power and control cables run through a weather tight grommet in the roof. Routing of the power and control cables through a hole in the roof with no grommet will not be accepted. The lightbar shall be a minimum of forty-eight [48] inches long, have hard coated polycarbonate lenses and have an aluminum protective plate provided on the top to protect internal components from ultraviolet light. The lightbar shall be programmable so that the purchaser may change the flash patterns at a later date without the purchase of additional parts, controllers or modules. The lightbar corner modules which face an operator attempting to open any of the vehicle's doors shall turn off when the door is ajar, such as when the rear passenger side door is opened: the rear passenger side module of the lightbar shall shut off. The up-fitter must accomplish this without cutting any OEM factory wiring and without the addition of any aftermarket door switches.

The lightbar shall be configured as follows:

- Driver side front corner module shall be Red/ White DUO
- Passenger side front side corner module shall be Red/ White DUO
- Passenger side rear side corner module shall be Red/ White DUO
- Driver side rear corner module shall be Blue/White DUO
- Two [2] forward facing take downs
- One [1] driver side LED alley light, one [1] passenger side LED alley light
- Six [6] forward facing Red/White DUO modules
- Three [4] rear driver side Amber/Blue DUO modules
- Three [4] rear driver side Amber/Red DUO modules

One [1] Whelen Legacy® GB WeCan® DUO+™ Lightbar or equal

Rear Tail Light LED Hideaway

Rear tail light strobes shall be Red LEDs, and have no less than a five [5] year warranty. The LED strobes shall require no external driver, outside of the control unit which turns on or off the lighthead. The lighthead used shall meet or exceed the specifications set forth in NFPA 1901. Lighthead shall be mounted inside the OEM chassis tail light housing, mounted in the brake light, and controlled such that when the brake is applied and the vehicle lighting system is calling the right of way, the lighthead shall stop flashing and act as ancillary brake lights.

Two [2] Red Whelen Vertex™ Super-LED® Light

Rear Warning Lights

Two [2] rear warning lights shall be mounted in a vehicle specific mount under the rear spoiler of the tail gate, one mounted on the driver's side, one mounted on the passenger side. The lighthead shall have no less than three [3] square inches of lens area, and have no less than a five [5] year warranty. The light heads used shall meet or exceed the specifications set forth in CAC Title 13 Article 22, SAE J595 and SAE J845. Housing shall be a die cast aluminum and powder coated for corrosion protection. A Blue light shall be mounted on the driver's side rear and a Red light shall be mounted to the passenger side rear.

One [1] Red Whelen ION™ Wide Angle Series Super-LED® Universal Light or equal

One [1] Blue Whelen ION™ Wide Angle Series Super-LED® Universal Light or equal

One [1] Whelen ION™ Rear Hatch Mount, IONBKT4 or equal

Rear License Plate Warning Lights

Two [2] rear license plate warning lights shall be provided and mounted to a mount which will utilize the factory license plate mounting holes. Provided lights shall be Blue and White DUO on the driver's side and Red and White DUO on the passenger side, capable of independent control and fully illuminate the

head, and shall have no less than three [3] square inches of lens area, and have no less than a five [5] year warranty. The light heads used shall meet or exceed the specifications set forth in CAC Title 13 Article 22, SAE J595 and SAE J845. Housing shall be a die cast aluminum and powder coated for corrosion protection. Lights shall be wired such to allow provide a White over-ride such that when the vehicle is put in reverse the White lights are activated to provide additional rear illumination.

One [1] Blue/ White Whelen ION™ DUO Series Super-LED® Universal Light or equal

One [1] Red/ White Whelen ION™ DUO Series Super-LED® Universal Light or equal

One [1] Whelen ION™ License Plate Mount, IONBKT1 or equal

Lift Gate Warning Lights

Lift gate warning lights shall be Red [Blue or Amber] LEDs, and have no less than a [5] year warranty. The provided warning lights shall require no external driver, outside of the control unit or switch which shall turn the lighthoods on. The light heads used shall meet or exceed the specifications set forth in KKK 1822-F, CAC Title 13 Article 22, SAE J595 and SAE J845. Warning lights shall be recess mounted to the liftgate such that when the liftgate is open, the warning lights activate and can be seen from motorists approaching from the rear. Lights shall be mounted such that they maintain no less than seventy [70] degrees of downward viewing angle. Preference shall be given to mounting and lights which provide warning parallel to the roadway or as feasibly possibly. Provided lights shall be mounted in accordance with industry best practice, and shall be powered on only when the lift gate is opened and emergency lights are activated. Up-fitter shall cut any of the OEM Ford wiring harness or drill into the vehicle to add a switch, no mercury switches will be allowed. NO EXCEPTIONS

One [1] Red Grommet Mounted Whelen ION™ Series Super-LED® Universal Light or equal

One [1] Blue Grommet Mounted Whelen ION™ Series Super-LED® Universal Light or equal

Interior Lighting

Driver's Compartment Dome Light

A dome light shall be provided which shall have White illumination and Red illumination. Dome light[s] shall be OEM mounted and capable of providing sufficient task lighting for the driver or passenger. Preference shall be given to an LED model.

Prisoner Compartment Lighting

For safety and security purposes interior nighttime lighting in the prisoner compartment shall be provided. Two Red/White LED interior rated lights shall be provided such that they can be turned on via a switch on the console and or when either the rear driver's side door or the rear passenger side door is opened. Provided lighthoods must have no less than a five [5] year warranty and produce no less than 250 lumens

of usable light. Conversion manufacturer will not be permitted to splice or tap into any OEM wiring to gain door open circuits. Door open signals must be obtained by a Ford approved CAN Bus system.

Two [2] Red/White Whelen 3" Round Super-LED® Lightheads or equal

One [1] Carling Rocker Switch On-Off-On with Laser Labeled Actuator or equal

Communication Equipment

All communication equipment shall be installed in accordance with industry best practices and shall be tested after installation.

Two Way Radio

Bidder[s] shall include cost to remove, clean and re-install a two way radio which will be provided by the purchaser. Radio antenna[s] shall be roof mounted and new, previously used or refurbished antenna[s] will not be accepted. A dedicated power and ground line shall be provided which shall be directly connected to the vehicles battery.

Mobile Data Modem

Bidder[s] shall include the cost to remove, clean and re-install a data radio modem which will be provided by the purchaser. Modem antenna[s] will be provided by the Essex County Sheriff's Office. Modem shall be mounted in a location which shall be conducive to service.

Video Wireless Upload

Bidder[s] shall include the cost to install two [2] NMO mounts such that the COBAN camera system wireless upload antenna[s] may be connected. Antennas shall be delivered with rain caps installed in the roof and have the proper connection crimped and connected to the COBAN system.

Power Distribution & Management Systems

Vehicle Wiring Harness

A dedicated wiring harness shall be provided for the vehicle to power all emergency warning and peripheral systems. With exception to connection to the vehicles battery and required interface connections such as park kill or horn ring, the up-fitter shall not use, tap or splice any of the OEM wiring for the install. With quality and long life in mind the harness shall meet or exceed the following specifications

- Main Fuse, minimum of 125Amps
- Main Circuit Breaker, minimum of 125Amps
- Dedicated Radio Power and Ground
- Direct independent control of each lighthead
- Direct home run connections into the Whelen CanTrol system [or equal]
- Battery direct ground at each lighthead
- Ground harness connections within the harness shall be sonic spliced

- Dedicated fused distribution panel which is labeled
- Vehicle sense lines
- Connection to the Ford Interface Module
- Color coded wires, shall be labeled with the function & output no more than six [6] inches apart
- Wire harness and loom shall be rated at or above 100° C
- Conductor shall be stranded TXL Copper which exceeds SAE J-1128
- No less than a three [3] year warranty

MNSTAR Harness SO-3650 or equal

Vehicle Interface System

An interface module which reads vehicle CAN bus and allows the conversion manufacturer to utilize vehicle data for functions such as door ajar, high beams, reverse, park sense up to and including engine temperature or oil pressure. The interface module shall be “plug and play” and have no less than eight [8] programmable circuits. Provided interface shall have no less than a one [1] year warranty.

One [1] Ford Interface Module or equal

Load Manager

A system which will monitor vehicle voltage and shed loads shall be provided such that the vehicle voltage drops below 11.7 volts, such load shedding shall not be used where equipment has its own dedicated

Load Manager Function Used in Whelen CanTrol® or equal

Console & Console Accessories

Console shall be a readily available model manufactured in the continental United States, custom fabricated center consoles will not be accepted. All equipment faceplates used to mount radio[s], siren control head[s], lighting controller[s] and any other equipment that shall be mounted to the console shall be included in the cost of the console. The console and console accessories shall have a lifetime warranty. Warranty shall include but is not limited to warranty against defects in materials and workmanship.

Console

Console shall be a vehicle specific model which is designed specifically for the vehicle. Console shall be installed between the driver and passenger seats and mounted to the OEM brackets provided. Console shall have no less than twenty-one [21] inches of mounting space as measured from front to the back of the console. Provided console shall have sufficient room to house any required power distribution system, radio head, siren and lighting control head and any other equipment herein mentioned to deliver a complete emergency vehicle. For ease of serviceability remote mounted radio chassis, battery chargers, siren and lighting controllers are not required to be installed inside the console. At a minimum one [1] standard cigar power outlets shall be provided in the console and fused in accordance with industry standards. Provided power ports shall be controlled by the Load Manager such that equipment powered from these outlets will not cause a low voltage condition. A single USB power port shall be provided that is capable of powering two [2] USB sockets at one [1] ampere and at two [2] amperes.

One [1] Havis 21" Vehicle Specific Console, Ford Police Interceptor Utility or equal

One [1] Havis Whelen CanTrol® Control Head Equipment Bracket or equal

One [1] Havis Motorola XLT 2500 Equipment Bracket or equal

Two [2] Havis Mic Clips or equal

Two [2] Havis Mic Brackets or equal

One [1] Havis C-PS-4 or equal

One [1] Havis Flex Arm Mount, PKG-FAM-104 or equal

One [1] Cigar Power Outlet[s] or equal

One [1] USB Kussmaul Power Outlet, 091-219 or equal

One [1] Havis Internal Cup Holder or equal

One [1] Havis Brother Arm Rest Printer Bracket or equal

Computer Equipment & Accessories

Purchaser will supply computer, which shall be a Data 911 system, and Brother Pocket Jet printer. Bidder[s] are responsible for the re-installation into the new vehicle. Computer mounting equipment shall be commercially available, and provide secure mounting. In the interest of safety the computer and docking station shall be mounted as far as practically possible from the airbag deployment zone.

Dash Mount

A vehicle specific dash mount shall be provided which allows access to the AM/FM radio, securely mounts the supplied computer and locks the monitor in place. Provided mount shall have VESA 75 Hole pattern.

One [1] Havis Dash Mount Base, C-DMM-123 or equal

One [1] Havis Data 911 Monitor Adapter or equal

Additional Electronic Systems

Bidder[s] will be responsible for the installation of the Data 911 system, Sierra wireless modem with roof antenna, COBAN in car video system with wireless upload antennas, Motorola XTL 2500 and a Radar unit with front and rear antennas. Bidder shall include this installation in their overall bid price.

Prisoner Partition

A steel prisoner partition shall be provided to protect the officer[s] from any person[s] being detained in the rear seat. Provided partition shall be specifically designed to fit in the specified vehicle, and shall have a center weapons recess such that two [2] weapons may be stowed securely. Partition shall have a polycarbonate window with a horizontal sliding polycarbonate window, which shall be capable of locking from the officers driving compartment. Partition shall mount to the vehicles "B" pillar and shall have provisions on no less than one side [driver or passenger] for additional leg and foot room to make for easier entry and exit of prisoners. Such provisions shall not affect the legroom of the officers seated in the front. Provided partition shall be side curtain airbag compatible, NO EXCEPTIONS WILL BE ACCEPTED.

One [1] Setina Manufacturing Tall Man 10XL or equal

Cargo Partition

A steel partition which shall separate the prisoner area and cargo area and to maximize rear window visibility shall have a clear stationary polycarbonate window. Provided cargo partition shall be specific to the specified vehicle.

One [1] Setina Manufacturing #12-VS Stationary Cargo Partition or equal

Cargo Storage Solution

A cargo storage solution shall be provided which shall have three [3] drawers, one of which shall be capable of holding no less than three hundred [300] pounds. The cargo box shall also have a locking top drawer which shall be capable of holding two [2] M16 Assault Rifles, the lock shall be a key lock with the option to change to a combination lock. A third drawer, located on the bottom, shall contain all of the electronics, radio[s] and computer equipment. The radio drawer is not required to be locked.

One [1] Setina Manufacturing Cargo Box DSC,BSN,TRN or equal

Push Bumper

A push bumper shall be provided which shall be made from high strength aircraft grade aluminum rubber push pads. Provided push bumper shall have two [2] recessed warning lights. Two [2] shall be mounted to the top most horizontal rail and shall be red white DUO Whelen IONS. Refer to grill lights and flashing white light section of the emergency lighting equipment outline for further information. Provided push bumper shall mount to the factory frame and require minimal alterations to the OEM bumper. Push bumper shall be powder coated black.

One [1] Setina Manufacturing Lighted Push Bumper PB450L or equal

Graphics

Bidder[s] shall include in bid to have graphics printed and installed to meet current fleet. Graphics may be subcontracted to a vendor who specializes in the install of vinyl graphics. Provided graphics shall meet the regulations set forth in the warranty section of this specification, and have no less than a five [5] year warranty.

Delivery

Bidder[s] shall delivery the vehicle to the County of Essex Sheriff’s Office, and the vehicle shall be under its own power. The bidder[s] shall provide a representative to perform the delivery inspection and any training required with the proposed emergency vehicle.

Proposal

In compliance with the Invitation to Bid, _____ hereby proposes to supply the County of Essex Sheriff’s Office, with equipment, supplies, and services as per bid specifications within _____ days and at the price(s) stated below.

2016 Ford Police Interceptor Utility with Specified Equipment

Vehicle Price \$ _____ Dollars _____ Cents
(Written price)

Equipment \$ _____ Dollars _____ Cents
(Written price)

Graphics \$ _____ Dollars _____ Cents
(Written price)

Equipment. Removal \$ _____ Dollars _____ Cents
(Written price)

TOTAL BID PRICE

\$ _____ Dollars _____ Cents
(Written price)

The bidder certifies the above stated price to be genuine for a period of sixty (60) days and to be the total cost offered to Essex County without exception.

Bidder’s Name

Bidder’s Address

Dated