Invitation to Bid

One (1) Police Rescue Equipment Vehicle per Specifications
Formal Bid Request # 18-19-18

Bid Due Date: **Friday, February 1, 2019 @ 3:00pm**

Pre-Bid Meeting: **Friday, January 25, 2019 @ 11:00am**

Location:
City of Greenville
Purchasing Office
Attention: Denisha Harris
201 West Fifth Street
Greenville, NC 27834

Contact Persons:

Questions regarding the bid package:
Denisha Harris
Financial Services Manager
Telephone: 252-329-4862
Email: dharris@greenvillenc.gov

Questions regarding the Specifications:
Angel Maldonado
Fleet Superintendent
Telephone: 252-258-9639
Email: amaldonado@greenvillenc.gov

CITY OF GREENVILLE
ADVERTISEMENT FOR INVITATION FOR FORMAL BIDS

Pursuant to General Statutes of North Carolina, Section 143-129 as amended, sealed proposals are invited and will be received by The City of Greenville, N. C. until **3:00 p.m., on Friday the 1st day of February, 2019** at which time in a meeting in the Purchasing Office, located at 201 W. Fifth Street, Greenville, N. C., the sealed proposals will be publicly opened for the provision of the following:

Items: Police Rescue Equipment Vehicle per Specifications

Formal Bid #18-19-18

From the date of this advertisement until the date of opening the proposals, the plans and specifications of the proposed work and/or a complete description of the apparatus, supplies, materials or equipment are and will continue to be on file in the office of the City of Greenville Financial Services Manager, 201 West 5th Street, Greenville, N. C. 27835-7207, during regular business hours, and will be posted on the City's website at: www.greenvillenc.gov and available to prospective bidders. Inquiries should be directed to the Financial Services Manager at the above address --- Telephone (252) 329-4862. Minority/Women owned businesses are encouraged to submit proposals.

The City Council of the City of Greenville reserves the right to accept or reject any or all proposals, waive informalities, and to make the award/purchase which is in the best interest of the City.

The bidder to whom contract may be awarded must comply with requirements of G. S. Section 143-129, as amended.

This 22nd day of January, 2019.

THE CITY OF GREENVILLE, N. C.
Denisha Harris, MPA, CPSD, CLGPO
Financial Services Manager

Publication Date: Tuesday, January 22, 2019 on City of Greenville website-Current Bid Opportunities

INVITATION FOR FORMAL BID ON
Police Rescue Equipment Vehicle per Specifications

_____Formal Bid # 18-19-18_____
Bid Due Date: Friday, February 1 @ 3:00 P.M.

INSTRUCTIONS TO BIDDERS

1. The person, firm or corporation submitting a bid shall submit it to the Financial Services Manager or her duly designated representative at one of the following:

Hand Delivered/or Carrier:	**By Postal Mail**:
Purchasing Office	City of Greenville-Purchasing
201 W. Fifth Street	201 West 5th Street
Greenville, N.C. 27834	Greenville, N.C. 27835

Please note that bids received by postal mail must be received by the Purchasing Division at the stated day and time to be considered responsive.

2. This is a Formal Bid and therefore bids will be received and opened publicly at stated time. Bids will be reviewed and evaluated by staff at a later time and an award will be made at the earliest possible date. No late bids will be accepted.

3. **Award of Bid**: Bids shall be awarded to the lowest responsive responsible bidder taking into consideration quality, performance, and the time specified in the proposal for the performance of the contract.

4. **Each bid must be submitted in a sealed envelope by date/time stated above. Envelope should be marked on the outside as "Formal Bid#18-19-18 along with Bidder's name and address.**

   Bids may be submitted via mail, hand delivery. NO BIDS WILL BE ACCEPTED BY EMAIL or FAX. PLEASE NOTE: All submittals should be on the attached BID FORMS, regardless to the method of delivery. Any bids/quotes not submitted on the attached bid form will be considered non-responsive.

5. All bids must be signed by an authorized official of the firm. Bids may be rejected if they show any omissions, alterations of form, additions not called for, conditional bid or any irregularities of any kind.

6. The bidder shall insert the required responses and supply all the information as indicated on the Bid Form. The prices inserted shall be net and shall be the full cost including all factors whatsoever. **Any bids not submitted on such forms provided will be considered unresponsive**.

7. No bid may be changed or withdrawn after the time of the bid opening. Any modifications or withdrawals requested before this time shall be acceptable only when such request is made in writing to the Financial Services Manager.

8. The City of Greenville reserves the right to reject any and all bids, to waive any informalities, and to accept the bid or any portion thereof that is deemed most advantageous to the City. Any bid submitted will be binding for 90 days after the date of the bid opening.

9. The specifications attached represent the minimum general size, capacity and performance characteristics desired in the equipment to be purchased. These requirements are not intended to prevent obtaining fair responses or to eliminate competition, but they are intended for the protection of each and every bidder and to insure, if possible, that all bids submitted shall be upon a fair and comparable basis.

10. It is expressly understood by the bidders that written notice of award by the City will constitute an agreement by the City to consummate the transaction and will serve together with the proposal, advertisement, these instructions, and the detailed specifications, as the entire form of contract between the parties except in cases where formal contracts are warranted.

11. Each proposal shall specify a delivery time. Time of delivery to Greenville, N. C. will be a factor along with quality, cost, etc. in awarding the bids.

12. Bid shall be FOB, Greenville, N. C. with delivery to be to the Greenville Public Works Department located at 1500 Beatty St. Greenville, NC 27834.

13. Technical questions regarding the specifications of this bid shall be directed to Mr. Angel Maldonado, Fleet Manager at (252) 258-9639; email: amaldonado@greenvillenc.gov. All other questions regarding the bid shall be directed to Denisha Harris, Financial Services Manager, telephone (252)329-4862; email: dharris@greenvillenc.gov.

GENERAL TERMS AND CONDITIONS

1. **NON-DISCRIMINATION:** The City of Greenville does not discriminate on the basis of race, color, sex, national origin, religion, age or disability. Any contractors or vendors who provide services, programs or goods to the City are expected to fully comply with the City's non-discrimination policy.

2. **NON-COLLUSION**: Respondents, by submitting a signed proposal, certify that the accompanying submission is not the result of, or affected by, any unlawful act of collusion with any other person or company engaged in the same line of business or commerce, or any other fraudulent act punishable under North Carolina or United States law.

3. **PAYMENT TERMS**: The City agrees to pay all approved invoices Net Thirty (30) days from the date received and approved. The City does not agree to the payment of late charges or finance charges assessed by the seller or vendor for any reason. Invoices are payable in U.S.funds.

4. **GOVERNING LAW**: Any agreement, contract or purchase order resulting from this invitation to bid, request for proposals or request for qualifications or quotes, shall be governed by the laws of the State of North Carolina.

5. **ACCEPTANCE/REJECTION OF PROPOSALS**: The City of Greenville reserves the right to award to the Firm who will best serve the interests of the City. The City also reserves the right to waive minor variations in the specifications and in the bidding process, as well as to accept in whole or in part such proposal(s) where it deems it advisable in protection of the best interests of the City. The City further reserves the right to accept or reject any or all bids/proposals, and to award or not award a contract based on this proposal.

6. **E-VERIFY COMPLIANCE**: The Contractor shall comply with the requirements of Article 2 of Chapter 64 of the North Carolina General Statutes. Further, if the Contractor utilizes a Subcontractor, the Contractor shall require the Subcontractor to comply with the requirements of Article 2 of Chapter 64 of the North Carolina General Statutes. By submitting a proposal, the Proposer represents that their firm and its Subcontractors are in compliance with the requirements of Article 2 Chapter 64 of the North Carolina General Statutes.

7. **CONFLICT OF INTEREST**: Each proposer shall affirm that no official or employee of the City of Greenville is directly or indirectly interested in this proposal for any reason of personal gain.

8. **EQUAL EMPLOYMENT OPPORTUNITY CLAUSE**: The City of Greenville has adopted an Equal Employment Opportunity Clause, which is incorporated into all specifications, purchase orders and contracts, whereby a vendor agrees not to discriminate against any employee or applicant for employment because of race,

color, religion, sex, national origin or ancestry. A copy of this clause may be obtained at the City Clerk's Office, located in City Hall-200 W. Fifth Street Greenville, NC. By submitting a proposal, the firm is attesting that they are an Equal Opportunity Employer.

9. **MWBE PROGRAM**: **Minority and/or Women Business Enterprise (MWBE) Program**
It is the policy of the City of Greenville to provide minorities and women equal opportunity for participating in all aspects of the City's contracting and procurement programs, including but not limited to, construction projects, supplies and materials purchase, and professional and personal service contracts. In accordance with this policy, the City has adopted a Minority and Women Business Enterprise (M/WBE) Plan and subsequent program, outlining verifiable goals.

The City has established a 2% Minority Business Enterprise (MBE) and 2% Women Business Enterprise (WBE) goal for the participation of M/WBE firms in supplying goods and services for the completion of this project. All firms submitting bids agree to utilize minority and women-owned suppliers and service providers whenever possible.

Questions regarding the City's M/WBE Program should be directed to the M/WBE Office at (252) 329-4462.

10. **FEDERAL LAW :** Federal law (Rehabilitation Act and ADA) prohibits handicapped discrimination by all governmental units. By submitting a proposal, the vendor is attesting toits policy of nondiscrimination regarding the handicapped.

11. **TAXES**: Sales taxes may be listed on the proposal, but as a separate item. No charge will be allowed for Federal Excise and Transportation tax from which the City is exempt.

12. **WITHDRAWAL OF PROPOSALS**: No bid/proposal may be changed or withdrawn after the stated time and date for submittal. Bids/proposals submitted shall be binding for ninety (90) days after the date of submittal.

13. **SERVICES PERFORMED**: All services rendered under this agreement will be performed at the Seller's own risk and the Seller expressly agrees to indemnify and hold harmless The City of Greenville, its officers, agents, and employees from any and all liability, loss or damage that they may suffer as a result of claims, demands, actions, damages or injuries of any kind or nature whatsoever by or to any and all persons or property.

14. **INDEPENDENT CONTRACTOR**: It is mutually understood and agreed the Seller is an independent contractor and not an agent of the City of Greenville, and as

such, Seller, his or her agents and employees shall not be entitled to any City employment benefits, such as but not limited to vacation, sick leave, insurance, workers's compensation, pension or retirement benefits.

15. **VERBAL AGREEMENT**: The City will not be bound by any verbal agreements.

16. **INSURANCE REQUIREMENTS**: Contractor shall maintain at its own expense
(a) **Commercial General Liability** Insurance in an amount not less than $1,000,000 per occurrence for bodily injury or property damage; City of Greenville, 200 W. Fifth St. Greenville, NC 27834 shall be named as additional insured.
(b) **Professional Liability** insurance in an amount not less than $1,000,000 per occurrence-if providing professional services;
(c) **Workers Compensation Insurance** as required by the general statutes of the State of North Carolina and Employer's Liability Insurance not less than $500,000 each accident for bodily injury by accident, $500,000 each employee for bodily injury by disease, and $500,000 policy limit;
(d) **Commercial Automobile Insurance** applicable to bodily injury and property damage, covering all owned, non-owned, and hired vehicles, in an amount not less than $1,000,000 per occurrence as applicable. Certificates of Insurance shall be furnished prior to the commencement of Services.

17. **IRAN DIVESTMENT ACT**: Vendor certifies that; (i) it is not identified on the Final Divestment List or any other list of prohibited investments created by the NC State Treasurer pursuant to N.C.G.S. 143-6A-4; (ii) it will not take any actions causing it to appear on any such list during the terms of this contract, and (iii) it will not utilize any subcontractor to provide goods and services hereunder that is identified on any list.

City Of Greenville, NC invites sealed bids for furnishing **one (1) Police Rescue Equipment Vehicle per specifications.**

The vendor shall provide construction drawings for approval prior to actual construction of the vehicle. Equipment design and accessory installation shall permit accessibility for use, maintenance and service. All components and assemblies shall be free of hazardous protrusions, sharp edges, cracks or other elements, which might cause injury to personnel or equipment.

All oil, hydraulic, and air tubing lines and electrical wiring shall be located in protective positions properly attached to the frame or body structure and shall have protective loom or grommets at each point where they pass through structural members, except where a through- frame connector is necessary.

Parts and components will be located or positioned for rapid and simple inspection and recognition of excessive wear or potential failure. Whenever functional layout of operating components determines that physical or visual interference between items cannot be avoided, the item predicted to require the most maintenance shall be located for best accessibility

BODY WARRANTY

The vendor shall provide warranty period of ONE YEAR from the date of delivery, except for chassis and other components noted herein.

Under this warranty it should cover any parts to replace those that have failed due to defective material or workmanship where there is no indication of abuse, neglect, unusual or other than normal service providing that such parts are, and warranty shall also include transportation to repair facility.

ALUMINUM BODY WARRANTY

Warranty to the original purchaser Aluminum Body either fabricated or purchase from third party shall under normal use and with reasonable maintenance, be structurally sound and will remain free from corrosion perforation for a period of FIVE (5) years.

Vendor shall indicate in detail which items will not be covered under the Aluminum Body.

PAINT WARRANTY FIVE YEAR

Vendor shall warranty all paint done to the vehicle and body for a period of FIVE (5)

years beginning the day the vehicle is delivered to the purchaser. Warranty shall cover all the following:

- Peeling or delaminating of the topcoat and/or other layers of paint.
- Cracking or checking.
- Loss of gloss caused by cracking, checking, or hazing.
- Any paint failure caused by defective, which are covered by this guarantee.

FORD F-Series CHASSIS

A Ford F-Series chassis per the attached specifications shall be furnished, it shall include power door locks, power windows, Towing mirrors, towing package, cruise control, Cab steps and Wheatear Tech floor mats:

LOW VOLTAGE ELECTRICAL SYSTEM SPECIFICATIONS

The electrical system shall include all panels, electrical components, switches and relays, wiring harnesses and other electrical components. The electrical equipment installed by the apparatus manufacturer shall conform to current automotive electrical system standards, the latest Federal DOT standards.

All wiring shall be stranded copper or copper alloy conductors of a gauge rated to carry 125 percent of the maximum current for the protected circuit. Voltage drops in all wiring from the power source to the using device shall not exceed 10 percent. The wiring and wiring harness and insulation shall be in conformance to applicable SAE. The wiring harness shall conform to SAE J-1128 with GXL temperature properties. All exposed wiring shall be protected in a loom with a minimum 289-degree Fahrenheit rating. All wiring looms shall be properly supported and attached to body members. The electrical conductors shall be constructed in accordance with applicable SAE standards, except when good engineering practice requires special construction.

The wiring connections and terminations shall use a method that provides a positive mechanical and electrical connection and shall be installed in accordance with the device manufacturer's instructions. Electrical connections shall be with mechanical type fasteners and large rubber grommets where wiring passes through metal panels.

The wiring between the cab and body shall be joined using Deutsche type connectors or an enclosed in a terminal junction panel area. This system will permit body removal with minimal impact on the apparatus electrical system. All connections shall be crimp-type with insulated shanks to resist moisture and foreign debris such as grease and road grime. Weather-resistant connectors shall be provided throughout to ensure the integrity of the electrical system.

Any electrical junction or terminal boxes shall be weather resistant and located away from water spray conditions. In addition, the main body junction panel shall house the automatic reset breakers and relays where required.

There shall be no exposed electrical cabling, harnesses, or terminal connections located in compartments, unless they are enclosed in a junction box or covered with a removable electrical panel. The wiring shall be secured in place and protected against heat, liquid contaminants and damage. Wiring shall be uniquely identified every three-inches (3") by color coding or permanent marking with a circuit function code.

The electrical circuits shall be provided with low voltage overcurrent protective devices. Such devices shall be accessible and located in required terminal connection locations or weather resistant enclosures. The overcurrent protection shall be suitable for electrical equipment and shall be automatic reset type and meet SAE standards. All electrical equipment, switches, relays, terminals, and connectors shall have a direct current rating of 125 percent of maximum current for which the circuit is protected. The system shall have electro- magnetic interference suppression provided as required in applicable SAE standards.

The electrical system shall include the following:

- Electrical terminals in weather exposed areas shall have a non-conductive grease or spray applied. A corrosion preventative compound shall be applicable to all terminal plugs located outside of the cab or body.
- The electrical wiring shall be harnessed or be placed in a protective loom.
- Holes made in the roof shall be caulked with silicone. Large fender washers shall be used when fastening equipment to the underside of the cab roof.
- Any electrical component that is installed in an exposed area shall be mounted in a manner that will not allow moisture to accumulate in it.
- A coil of wire must be provided behind an electrical appliance to allow them to be pulled away from mounting area for inspection and service work.
- All lights that have their sockets in a weather exposed area shall have corrosion preventative compound added to the socket terminal area.

The warning lights shall be switched in the chassis cab with labeled switches in an accessible

location. Individual rocker switches shall be provided only for warning lights provided over the minimum level of warning lights in either the stationary or moving modes. All electrical equipment switches shall be mounted on a switch panel mounted in the cab convenient to the operator. The warning light switches shall be of the rocker type. For easy nighttime operation, an integral indicator light shall be provided to

indicate when the circuit is energized. All switches shall be appropriately identified as to their function.

A single warning light switch shall activate all required warning lights. This switch will allow the vehicle to respond to an emergency and "call for the right of way". When the parking brake is applied, a "blocking right of way" system shall automatically activate per requirements of the applicable NFPA standards. All "clear" warning lights shall be automatically turned off upon application of the parking brake.

WEATHER RESISTANT ELECTRICAL JUNCTION BOX

The electrical junction or terminal boxes shall be weather resistant and located away from water spray conditions. In addition, the main body junction panel shall house the automatic reset breakers and relays where required. The main body junction panel shall be located in the number 1 compartment driver's side front.

ELECTRICAL CONSOLE WITH EMERGENCY LIGHT SWITCH PANEL – THERMAL COATED

An electrical console shall be constructed of .125" black powder coated smooth aluminum material, and mounted in the cab of the truck chassis. Console shall be designed and installed between the driver and passenger seats. The top face of the console shall be designed as the switch panel for all emergency light switches. The switch panel shall be hinged for easy access to the switch connections.

All emergency light switches shall be lighted, rocker style. Switches shall be internally lit when the switch circuit is in the on position. A plug-in identification label is to be provided and installed adjacent to each rocker switch with backlighting provided behind the label.

Two (2) cup holders recessed in center console and storage.

SWITCHES

A rocker style internally lighted switch shall be provided and wired through a heavy-duty relay to activate power to the emergency lights. The emergency lights shall be activated by a single "MASTER SWITCH" on the electrical console.

BATTERY SYSTEM

The battery system shall be supplied with the chassis. If option is available it should be dual battery.

MASTER ELECTRIC SWITCH

One (1) master battery disconnect switch shall be located conveniently to the driver of the apparatus. The switch shall disconnect the 12-volt power supply from the battery system.

A "Master On" light shall be provided. This light shall illuminate anytime the master switch is in the "ON" position.

BATTERY CHARGER

One (1) Kussmaul Autocharge model #091-165-12 12-amp automatic battery charger shall be wired to the 12-volt battery system. The charger unit shall be mounted in a clean dry area and will be accessible for service and/or maintenance.

BATTERY CHARGER DISPLAY

One (1) Kussmaul 091-165-016 single battery bank voltage display shall be supplied with the charger.

AUTO-EJECT

A Kussmaul "Super Auto-Eject" 20-amp automatic disconnect device shall be provided and installed on the 110-volt shoreline connection complete with weatherproof cover and matching plug. The Auto-Eject shall be activated by the chassis starter switch to disconnect the plug.
The Super Auto-Eject shall be completely sealed to prevent contamination of the mechanism by inclement weather and road conditions. The Super Auto-Eject shall have an internal switch to open and close the AC circuit after the mating connector is inserted and before the connector is removed.

SHORE POWER PLUG

The shore power plug shall be located at the left front cab door.

12 VOLT POWER SOURCE

One (1) 12-volt cigarette lighter style power connection rated at 15 amps shall be provided in the center cab dash of the chassis.

The power source shall be run through the chassis master battery switch and shall be deactivated when the master switch is in the "OFF" position.

12 VOLT POWER SOURCE

One (1) 12-volt cigarette lighter style power connection rated at 15 amps shall be provided in the center cab dash of the chassis.

The power source shall be run through the chassis master battery switch and shall be deactivated when the master switch is in the "OFF" position.

INTERIOR CAB CEILING DOME LIGHT

One (1) Whelen 6" round super-LED model 60CREGCS shall be provided. The combination red/white 12-volt interior light shall incorporate six (6) red and six (6) clear super-LED and a clear non-optic translucent hard coated polycarbonate lens for maximum output. The 60CREGCS includes an on/off dual switch function.

BACKUP CAMERA SYSTEM

One (1) backup camera system shall be furnished utilizing a color high resolution rear camera for improved picture quality and safety surrounding the apparatus. A cast aluminum sealed rear camera enclosure shall be included with the basic package, along with military type electronic connections. Shall provide clear picture during day or night.

The monitor shall include a cable connection assembly. The system shall be capable of monitoring up to four video inputs. When the apparatus is powered up, the monitor will automatically detect and display up to four camera images on the screen as a prove out that all are working. Pressing the power button will put the system into standby mode. When a trigger signal is detected, reverse, signal lights, etc., that camera will become live, and the monitor will awake to display that image. When the trigger signal disappears, the monitor will return to standby mode. Manual pressing the power button a second time will awake the monitor to display all connected cameras again. The rear camera system includes one-way audio to the monitor from the rear of the apparatus.

BLIND SPOT CAMERAS

Two (2) camera(s) shall be mounted onto the side(s) of the apparatus to cover the turning blind spot(s). Each camera shall be activated by the respective signal lights, and triggered to display on the monitor. The housing shall be painted to match the cab exterior.

MARKER LIGHTS

LED marker lights shall be installed on the vehicle in conformance to the Department of Transportation requirements.

LICENSE PLATE BRACKET

One (1) Cast Products license plate bracket, model LP0005-1-C shall be provided at the rear of the apparatus. The bracket shall have a polished finish and LED light.

TAIL LIGHTS

One (1) pair of Whelen M6 LED tail/brake lights shall be provided. The rectangular 4"x6" lights shall be red with clear lens.

TURN SIGNALS

One (1) pair of Whelen M6 LED turn signals with populated sequential chevron arrow and clear lens shall be provided.

BACKUP LIGHTS

One (1) pair of Whelen Series M6 LED backup lights shall be installed on the rear of the apparatus body. The dimensions shall be 4" x 6" and the lens color shall be clear.

CAB GROUND LIGHTS

Four (4) LED ground lights shall be installed on the chassis cab, one under each cab door.

MID BODY GROUND LIGHTS

Two (2) LED ground lights shall be installed under the mid-body of the apparatus. One
(1) light shall be located on the driver's side and one (1) light located on the officer's

side of the apparatus.

REAR STEP GROUND LIGHTS

Two (2) LED ground lights shall be installed under rear step of the apparatus.

REAR BODY GROUND LIGHTS

Two (2) LED ground lights shall be installed under the compartments located behind the rear wheels. One (1) light shall be located on the driver's side and one (1) light located on the passenger side of the vehicle.

The ground lights shall automatically activate when the parking brake is applied.

REAR TAILBOARD LIGHTS

Two (2) step lights with clear lens shall be installed to illuminate the step surfaces at the

rear of the body.

The step/walkway light switch shall be installed and wired to the parking brake.

SCENE LIGHT

Six (6) Whelen M6ZC Series Super-LED 6-3/4" x 4-5/16" gradient scene light(s) shall be provided. The steady burn scene light shall incorporate Linear Super-LED and Smart LED technology.

The M6ZC shall be furnished with a chrome trim ring, a rubber gasket, screws, and screw grommets for installation. The M6ZC shall have the ability to be installed as a surface mount scene light.
Lens Color: Clear

SCENE LIGHT LOCATION

Two (2) scene light shall be located on the left side of the apparatus body.

SCENE LIGHT LOCATION
Two (2) scene light shall be located on the right side of the apparatus

body. The scene light shall be installed on a treadplate mounting

plate.

SCENE LIGHT LOCATION

Two (2) scene light shall be located on the rear of the apparatus body.

SCENE LIGHT SWITCHING

One (1) scene light switch with indicator shall be installed on the cab main switch panel to control the left side scene light(s). The switch shall be labeled "LEFT SCENE".

SCENE LIGHT SWITCHING

One (1) scene light switch with indicator shall be installed on the cab main switch panel to control the right-side scene light(s). The switch shall be labeled "RIGHT SCENE".

SCENE LIGHT SWITCHING

One (1) scene light switch with indicator shall be installed on the cab main switch panel to control the rear scene light(s). The switch shall be labeled "REAR SCENE".

DOOR OPEN/HAZARD WARNING LIGHT

One (1) red flashing, warning light shall be provided and installed in the driver's compartment to indicate an open passenger or apparatus compartment door. The warning light shall also be attached to folding equipment racks and light towers as specified. The light shall be a flashing rectangular incandescent marker light with a red lens and shall be properly marked and identified.

ELECTRIC SIREN AND CONTROL

One (1) Whelen model #295SLSA6 electronic siren shall be mounted in the cab. This unit features nineteen (19) scan lock siren tones, including wail, yelp, piercer, hi/low, air horn and shall have a hard-wired PA microphone. It shall also control emergency and scene lights.

SPEAKER

Two (2) Whelen - 100-watt speaker, shall be installed. The speaker shall feature a

Neodymium driver and a high strength composite housing that is chemical resistant and maintains rigidity at high temperatures.

SPEAKER

Two (2) stainless steel grille shall be installed on the speaker.

SPEAKER LOCATIONS

The siren speakers shall be recessed in the apparatus bumper with one (1) speaker on each side.

LOW FREQUENCY SIREN AMPLIFIER

One (1) Whelen"Howler" shall be installed with the primary siren. The "Howler" provides a secondary, low frequency tone to synchronize with the primary siren tone. The "Howler" works with any sweeping, Hi/Low or electronic mechanical tone generated by the primary siren and includes eight (8) different tone durations, 7.5-60 seconds. The "Howler" uses the primary siren speaker output wires and divides the frequency to one of three frequency bands via dip switch. The selections are 1/4 tone, 1/2 tone, or a composite of both.

SIREN CONTROL

One (1) electronic switch shall be provided integrally with the apparatus' horn to activate the siren.

FRONTAL WARNING LIGHTS

Four (4) Whelen M9 warning lights blue in color with clear lens. Mounted on front of body.

UPPER REAR WARNING LIGHTS

One (1) pair of Whelen model M6 LED warning lights shall be installed, one each side on the upper rear of the apparatus body. The dimensions of the lights shall be 4-5/16" x 6-3/4".

The driver side warning light shall be a Whelen Model M6BC blue Super-LED™ with clear lens.

The officer side warning light shall be a Whelen Model M6BC blue Super-LED™ with clear lens.

Each light shall be mounted with a Whelen Model M6FC chrome flange.

UPPER SIDE FRONT WARNING LIGHTS

One (1) pair of Whelen model M6 LED warning lights shall be installed, on the upper portion of the body side, towards the front. The dimensions of the lights shall be 4-5/16" x 6-3/4".

The driver side warning light shall be a Whelen Model M6BC blue Super-LED™ with clear lens.

The officer side warning light shall be a Whelen Model M6BC blue Super-LED™ with clear lens.

Each light shall be mounted with a Whelen Model M6FC chrome flange.

UPPER SIDE REAR WARNING LIGHTS

One (1) pair of Whelen model M6 LED warning lights shall be installed, one each side on the upper portion of the body side, towards the rear of the body. The dimensions of the lights shall be 4-5/16" x 6-3/4".

The driver side warning light shall be a Whelen Model M6BC blue Super-LED™ with clear lens.

The officer side warning light shall be a Whelen Model M6BC blue Super-LED™ with clear lens.

Each light shall be mounted with a Whelen Model M6FC chrome flange.

LOWER FRONT WARNING LIGHTS

Two (2) pair of Whelen model M6 LED warning lights shall be installed, one each side one the front of the chassis cab. The dimensions of the lights shall be 4-5/16" x 6-3/4".

The driver side warning light shall be a Whelen Model M6BC blue Super-LED™ with clear lens.

The officer side warning light shall be a Whelen Model M6BC blue Super-LED™ with clear lens.

Each light shall be mounted with a Whelen Model M6FC chrome flange.

INTERSECTION WARNING LIGHTS

One (1) pair of Whelen model M6 LED warning lights shall be installed one each side of the chassis cab. The dimensions of the lights shall be 4-5/16" x 6-3/4".

The driver side warning light shall be a Whelen Model M6BC blue Super-LED™ with clear lens.

The officer side warning light shall be a Whelen Model M6BC blue Super-LED™ with clear lens.

Each light shall be mounted with a Whelen Model M6FC chrome flange.

LOWER MID-BODY WARNING LIGHTS

One (1) pair of Whelen model M2 LED warning lights, model M2WR, shall be installed, one each side of the apparatus, mid-body in the rub rail. The dimensions of the lights shall be 4-1/4" x 2-11/16".

The driver side warning light shall be a Whelen Model M2WBC wide-angle blue Super-LED™ with clear lens.

The officer side warning light shall be a Whelen Model M2WBC wide-angle blue Super-LED™ with clear lens.

LOWER REAR SIDE WARNING LIGHTS

One (1) pair of Whelen model M2 LED warning lights shall be installed, one each side of the apparatus, towards the rear of the body, in the rub rail. The dimensions of the lights shall be 4- 1/4" x 2-11/16".

The driver side warning light shall be a Whelen Model M2WBC wide-angle blue Super-LED™ with clear lens.

The officer side warning light shall be a Whelen Model M2WBC wide-angle blue Super-LED™ with clear lens.

LOWER REAR WARNING LIGHTS

One (1) pair of Whelen model M6 LED warning lights shall be installed, one each side on the lower rear of the apparatus body. The dimensions of the lights shall be 4-5/16" x 6-3/4".

The driver side warning light shall be a Whelen Model M6BC blue Super-LED™ with clear lens.

The officer side warning light shall be a Whelen Model M6BC blue Super-LED™ with clear lens.

REAR TOWING

There shall be two tow eyes furnished under the rear of the body and attached. There shall be a reinforcement spreader bar connecting the two tow eyes. Tow eyes are to be constructed of 3/8" plate steel with a 4" I.D. hole, large enough for passing through a tow chain end hook.

The tow plates shall be painted black.

BRUSH GUARD

A heavy-duty steel wrap around style brush guard with a black finish shall be installed on the front of the apparatus to provide additional protection for the grill and headlamp areas. The mounting of the brush guard shall utilize the existing holes in the vehicle frame for superior strength with the lowest vibration.

FRONT MOUNTED ELECTRIC WINCH

One (1) Warn, model M15000, 12-volt electric winch, with 15,000 lb. capacity shall be provided and mounted on the front of the apparatus. The winch shall be secured directly to the chassis frame rails by a heavy steel support structure designed to with stand the pulling force of the winch.

The winch shall include nylon cable with clevis hook, 25-foot-long remote-control pendant, 4- way roller fairlead through the bumper.

The installation shall maintain access to the winch controls.

EXHAUST HEAT SHIELD

A heat shield shall be installed under the body in the areas where the exhaust system is routed.

REAR MUD FLAPS

One (1) pair of black mud flaps shall be installed behind the rear wheels.

ALUMINUM RUNNING BOARDS

There shall be a set of aluminum running boards furnished on each side of the four-door commercial chassis that extend from behind the front wheel to the rear of the four-door cab. The running boards shall have slip resistant overlay material installed on each step surface.

ALUMINUM BODY CONSTRUCTION

The body shall be fabricated of aluminum extrusions, smooth aluminum sheet and aluminum treadplate.

The aluminum extrusion alloy shall be 6061 with a temper rating of T6, and have a tensile strength of 45,000 PSI and yield strength of 40,000 pounds. The aluminum extrusions shall 3" x 3" aluminum tubing, 1-3/4" x 3" aluminum tubing and 3" x 3" aluminum angle and specially designed extrusions, up to .250" wall thickness where applicable.

The smooth aluminum sheet material alloy shall be 5052 with a temper rating of H32, and have a tensile strength of 33,000 PSI and yield strength of 28,000 pounds.

The aluminum treadplate alloy shall be 3003 with a temper rating of H22, and have a tensile strength of 30,000 PSI and yield strength of 28,000 pounds.

The extrusions shall be designed as structural-framing members with the smooth aluminum and treadplate fabricated to form compartments, hose beds, and floors. All aluminum material shall be welded together using the latest mig spray pulse arc welding system.

Compartments to be sweep-out design and to be water and dust proof. All compartments shall be made to the maximum practical dimensions to provide

maximum storage capacity. To ensure maximum storage space, the apparatus shall be constructed without any void spaces between the body and the compartment walls. Double wall construction does not meet this requirement.

All exterior compartments shall have polished aluminum drip moldings installed above the doors where necessary to prevent water from entering the compartments.

Wheel well panels shall be formed aluminum that is welded in place. There shall be no visible bolt heads, retention nuts or fasteners on the exterior surface of the panel. To fully protect the wheel well area from road debris and to aid in cleaning, a full depth radius wheel well liner shall be provided. The frame side of the wheel well area on each side of the opening shall be attached to the frame side of the front and rear compartments. All seams on the frame side of the body shall be welded and caulked to prevent moisture from entering the compartments.

The rear wheel wells shall be radius cut for a streamlined appearance. A polished aluminum fenderette shall be furnished at each rear wheel well opening, held in place with stainless steel fasteners.

FASTENERS

All aluminum and stainless-steel components shall be attached using stainless steel fasteners.

Compartment door hinges, handrails and running boards shall be attached using minimum 1/4" diameter machine bolt fasteners.

3/16" diameter fasteners shall only be used in nonstructural areas such as; door handles, trim moldings, gauge mounting, etc.

COMPARTMENT FLOORS

The compartment floors shall be constructed of smooth aluminum material, to match the compartment interior walls.

ALUMINUM SUB-FRAME

The main body sub-frame shall be extruded aluminum and be fully welded to the longitudinal frame rail extrusions that are mounted parallel to the chassis frame rails.

The main body sub-frame shall be constructed of no less than four (4) extruded aluminum tubes running full width of the apparatus body. A minimum of two (2) full body width tubes shall be provided ahead of and behind the rear axle forming the main body support crossmembers. The main cross tubes shall be fully welded

to the vertical and horizontal extrusions forming the body super-structure, described elsewhere herein.

For added strength and rigidity, no less than six (6) intermediate body crossmembers shall be provided constructed extruded aluminum tubes.

The intermediate structural crossmembers shall be interconnected and welded to the main body tubular crossmembers forming a fully welded support grid for the body super-structure compartments.

The subframe crossmembers shall be attached to the chassis frame rails using heavy "U" bolt fasteners to allow removal of the subframe and body assembly from the chassis. There shall be a barrier provided between the subframe and body to prevent electrolysis.

The tubular extrusion shall consist of 1-3/4" x 3" rectangular tubes of both 1/8" and 3/16" wall thickness and 3" x 3" square aluminum tubing of both 1/8" and 3/16" wall thickness.

SINGLE AXLE WHEEL AREA

For ease of accessibility and maintenance, wheel well panels shall be double break formed painted smooth plate that is welded in place.

To fully protect the wheel well area from road debris and to aid in cleaning, a full depth (minimum of 25") radius wheel well liner shall be provided. Wheel well liner shall be smooth aluminum to prevent corrosion.

FENDERETTES

The rear wheel wells shall be radius cut for a streamlined appearance. A polished aluminum fenderette shall be furnished at each rear wheel well opening, held in place with concealed stainless-steel fasteners.

BODY DIMENSIONS

The aluminum rescue body shall be 144" long and 95" wide.

ROLL UP DOOR CONSTRUCTION

Compartment doors shall be equipped with ROM brand roll-up doors complete with the following features:

1” aluminum double wall slats with continuous ball & socket hinge joint

designed to prevent water ingression and weather tight recessed dual durometer seals,

Double wall reinforced bottom panel with stainless steel lift bar latching system, bottom panel flange with cut-outs for ease of access with gloved hands, reusable slat shoes with positive snap- lock securement, smooth interior door curtain to prevent equipment hang-ups,

One-piece aluminum door track / side frame, top gutter with non-marring seal, non-marring recessed side seals with UV stabilizers to prevent warpage,

Dual leg bottom seal, with all wear component material to be Type 6 Nylon.

EZ-PULL DOWN STRAPS

Seven (7) elastic nylon straps shall be provided and installed on each roll up door. The straps shall be secured to the side wall of the interior compartment in a way that will allow the EZ-Pull strap to contract automatically and tuck inside the compartment when closed to prevent the strap from dangling and hindering closing of the door. When the door is the open position, the straps shall be installed so that they are fully extended as to not interfere with removing items from the compartment. For the ease of locating, the straps shall be bright orange in color.

DOOR DRIP PANS

An aluminum drip pan shall be provided on the roll up door.

DOOR LOCKS

A cylindrical door lock shall be provided on the roll up door(s). The door lock shall operate a rod mechanism located within the bottom rail of the door that extends into both side rails when locked.

COMPARTMENT HEIGHT

The body side compartments shall be 72" high.

LEFT SIDE BODY COMPARTMENTS

The left side body compartmentation shall be as follows:

LEFT FRONT COMPARTMENT

There shall be one (1) full height compartment located ahead of the rear

wheels. The compartment shall be equipped with a full height single natural finish roll up door.

COMPARTMENT DEPTH

The compartment shall be transverse to the opposite side of

the truck. The compartment shall be equipped with the

following items:

One (1) louver with filter shall be installed in the compartment.

ADJUSTABLE SHELVING TRACKS

The compartments shall be equipped with four (4) aluminum adjustable tracks, vertically mounted, that are bolted in place for adjustable shelving and equipment mounting.

250# ROLLOUT TRAY

Two (2) roll-out equipment tray shall be installed in the compartment. The tray with telescoping slides and cam follower bearings shall be rated to a maximum load of 250 lbs. The tray shall have a gas shock to hold the tray extended or closed. There shall be a lock to prevent movement, when the tray is in the closed position.

The tray shall be formed of .125" smooth aluminum plate, fabricated with two (2) inch sides. Reflective material measuring 1” x 6” shall be installed on each front corner both on the face and side of tray for firefighter safety.

The shelf/tray shall be fitted with removable vinyl DRI Deck matting. The matting shall be interlocking modules approximately 12" square by 9/16" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

600# ROLLOUT TRAY

One (1) Slide Master SM3-MP Series mid profile telescoping equipment tray(s) shall be installed in a standard depth compartment. The tray assembly shall have a silver powder coated steel slide frame with sealed roller bearings rated to 600 pounds. A tray constructed of .125" smooth aluminum plate with four 3" sides shall be mounted to the slide frame. The slide frame shall extend 100% allowing the tray to be completely accessible from outside the compartment. The slide shall

have a 3-1/4" deck height.

A "spring" lock shall hold tray in both the "in" and "out" positions. The "spring lock" operates with a spring-loaded pawl engaging a strike. The user pulls on the rod to release the lock, while the lock automatically re-engages for locking.

COMPARTMENT DIVIDER

One (1) compartment divider constructed from 3/16" smooth aluminum material shall be installed. The divider shall be bolted in for ease of removal.

ROLL-OUT ALUMINUM TOOL BOARD

One (1) Slide Master SM3-MP T.B. Series telescoping equipment tool board(s) shall be installed in a half body width compartment. The tray assembly shall have a silver powder coated steel slide frame with sealed roller bearings rated to 600 pounds. A tool board constructed of .190" smooth aluminum plate with an opening to accommodate a gloved-hand for operating tool board shall be mounted to the slide frame. The slide frame shall extend 100% allowing the tray to be completely accessible from outside the compartment and a device shall be installed to hold each tool board in both the "in" and "out" positions. The slide shall have a 3-1/4" deck height.

The floor area of the compartment shall be fitted with removable vinyl DRI Deck matting. The matting shall be interlocking modules approximately 12" square by 9/16" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

COMPARTMENT LIGHTS

Two (2) ROM vertically mounted roll-up compartment LED V3 door lights shall be installed one each side of the door opening. The compartment lights shall be integrated into the roll-up door tracks with the light actuation with the door opening.

The lights shall have a polycarbonate lens to eliminate breakage from impact and eliminate heat buildup.

The compartment light will be controlled by a magnetic "On-Off" switch located on each compartment door.

LEFT OVERWHEEL COMPARTMENT

There shall be one (1) compartment above the rear wheels. The compartment shall be equipped with a single natural finish roll up door.

COMPARTMENT DEPTH

The compartment shall be transverse to the opposite side of

the truck. The compartment shall be equipped with the

following items:

One (1) louver with filter shall be installed in the compartment.

ADJUSTABLE SHELVING TRACKS

The compartments shall be equipped with two (2) aluminum adjustable tracks, vertically mounted, that are bolted in place for adjustable shelving and equipment mounting.

600# ROLLOUT TRAY

One (1) Slide Master SM3-MP Series mid profile telescoping equipment tray(s) shall be installed that is(are) approximately half the depth of the body width. The tray assembly shall have a silver powder coated steel slide frame with sealed roller bearings rated to 600 pounds. A tray constructed of .125" smooth aluminum plate with four 3" sides shall be mounted to the slide frame. The slide frame shall extend 100% allowing the tray to be completely accessible from outside the compartment. The slide shall have a 3-1/4" deck height.

A "spring" lock shall hold tray in both the "in" and "out" positions. The "spring lock" operates with a spring-loaded pawl engaging a strike. The user pulls on the rod to release the lock, while the lock automatically re-engages for locking.

PULL-OUT AND DROP-DOWN

One (1) roll-out and tilt-down equipment tray shall be installed in the customer-specified compartment. The tray with roller bearing tracks shall be rated to a maximum load of 250 lb. Construction shall consist of four (4) inch tall extruded aluminum sides. Reflective material measuring 1” x 6” shall be installed on each front corner both on the face and side of tray for firefighter safety.

Track assembly shall allow tray to roll out and tilt down at approximately a 30-degree angle.

The shelf/tray shall be fitted with removable vinyl DRI Deck matting. The matting shall be

interlocking modules approximately 12" square by 9/16" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

Long tool storage

There shall be a long tool storage compartment provided in ceiling of L2/R2 compartment or Similar to size.

The floor area of the compartment shall be fitted with removable vinyl DRI Deck matting. The matting shall be interlocking modules approximately 12" square by 9/16" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

COMPARTMENT LIGHTS

Two (2) ROM or approved equal vertically mounted roll-up compartment LED V3 door lights or approved equal shall be installed one each side of the door opening. The compartment lights shall be integrated into the roll-up door tracks with the light actuation with the door opening.

The lights shall have a polycarbonate lens to eliminate breakage from impact and eliminate heat buildup.

The compartment light will be controlled by a magnetic "On-Off" switch
located on each compartment door.

LEFT REAR COMPARTMENT

There shall be one (1) full height compartment located behind the rear wheels. The

compartment shall be equipped with a full height single natural finish roll up door.

COMPARTMENT DEPTH

The compartment shall be 23" deep.

The compartment shall be equipped with the following

items: One (1) louver with filter shall be installed in

the compartment.

ADJUSTABLE SHELVING TRACKS

The compartments shall be equipped with two (2) aluminum adjustable tracks, vertically mounted, that are bolted in place for adjustable shelving and equipment mounting.

ADJUSTABLE SHELF

Two (2) adjustable shelf shall be constructed of .125” smooth aluminum plate with 1.5” formed vertical lip front & back. Shelf supports on each side to be constructed of .188” aluminum and bolted to an aluminum extrusion (mounted vertically) by use of 3/8” bolts and spring-loaded cam locks. If shelf is longer than 40” a reinforcement by aluminum gusset is to be placed full-length on bottom of shelf.

The shelf/tray shall be fitted with removable vinyl DRI Deck matting. The matting shall be interlocking modules approximately 12" square by 9/16" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

600# ROLLOUT TRAY

One (1) Slide Master SM3-MP Series mid profile telescoping equipment tray(s) shall be installed in a standard depth compartment. The tray assembly shall have a silver powder coated steel slide frame with sealed roller bearings rated to 600 pounds. A tray constructed of .190" smooth aluminum plate with four 3" sides shall be mounted to the slide frame. The slide frame shall extend 100% allowing the tray to be completely accessible from outside the compartment. The slide shall have a 3-1/4" deck height.

An integrated manual quarter turn "gravity" lock shall hold tray in both the "in" and "out" positions. The "gravity lock" manually rotates a rod with a tab to engage the bottom frame.

The floor area of the compartment shall be fitted with removable vinyl DRI Deck matting. The matting shall be interlocking modules approximately 12" square by 9/16" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

COMPARTMENT LIGHTS

Two (2) ROM or approved equal vertically mounted roll-up compartment LED V3 door lights shall be installed one each side of the door opening. The compartment lights shall be integrated into the roll-up door tracks with the light actuation with the door opening.

The lights shall have a polycarbonate lens to eliminate breakage from impact and eliminate heat buildup.

The compartment light will be controlled by a magnetic "On-Off" switch located on each compartment door.

RIGHT SIDE BODY COMPARTMENTS

The right-side body compartmentation shall be as follows:

RIGHT FRONT COMPARTMENT

There shall be one (1) full height compartment located ahead of the rear wheels. The compartment shall be equipped with a full height single natural finish roll up door.

COMPARTMENT DEPTH

The compartment shall be transverse to the opposite side of

the truck. The compartment shall be equipped with the

following items:

One (1) louver with filter shall be installed in the compartment.

ADJUSTABLE SHELVING TRACKS

The compartments shall be equipped with two (2) aluminum adjustable tracks, vertically mounted, that are bolted in place for adjustable shelving and equipment mounting.

600# ROLLOUT TRAY

Two (2) Slide Master SM3-MP Series mid profile telescoping equipment tray(s) shall be installed in a standard depth compartment. The tray assembly shall have a silver powder coated steel slide frame with sealed roller bearings rated to 600 pounds. A tray constructed of .125" smooth aluminum plate with four 3" sides shall be mounted to the slide frame. The slide frame shall extend 100% allowing the tray to be completely accessible from outside the compartment. The slide shall have a 3-1/4" deck height.

A "spring" lock shall hold tray in both the "in" and "out" positions. The "spring lock" operates with a spring-loaded pawl engaging a strike. The user pulls on the rod to release the lock, while the lock automatically re-engages for locking.

COMPARTMENT DIVIDER

One (1) compartment divider constructed from 3/16" smooth aluminum material shall be installed. The divider shall be bolted in for ease of removal.

ROLL-OUT ALUMINUM TOOL BOARD

One (1) Slide Master SM3-MP T.B. Series telescoping equipment tool board(s) shall be installed in a half body width compartment. The tray assembly shall have a silver powder coated steel slide frame with sealed roller bearings rated to 600 pounds. A tool board constructed of .190" smooth aluminum plate with an opening to accommodate a gloved-hand for operating tool board shall be mounted to the slide frame. The slide frame shall extend 100% allowing the tray to be completely accessible from outside the compartment and a device shall be installed to hold each tool board in both the "in" and "out" positions. The slide shall have a 3-1/4" deck height.

The floor area of the compartment shall be fitted with removable vinyl DRI Deck matting. The matting shall be interlocking modules approximately 12" square by 9/16" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

COMPARTMENT LIGHTS

Two (2) ROM or approved equal vertically mounted roll-up compartment LED V3 door lights shall be installed one each side of the door opening. The compartment lights shall be integrated into the roll-up door tracks with the light actuation with the door opening.

The lights shall have a polycarbonate lens to eliminate breakage from impact and eliminate heat buildup.

The compartment light will be controlled by a magnetic "On-Off" switch located on each compartment door.

RIGHT OVERWHEEL COMPARTMENT

There shall be one (1) compartment above the rear wheels. The compartment shall be equipped with a single natural finish roll up door.

COMPARTMENT DEPTH

The compartment shall be transverse to the opposite side of

the truck. The compartment shall be equipped with the

following items:

One (1) louver with filter shall be installed in the compartment.

ADJUSTABLE SHELVING TRACKS

The compartments shall be equipped with two (2) aluminum adjustable tracks, vertically mounted, that are bolted in place for adjustable shelving and equipment mounting.

600# ROLLOUT TRAY

One (1) Slide Master SM3-MP Series mid profile telescoping equipment tray(s) shall be installed that is(are) approximately half the depth of the body width. The tray assembly shall have a silver powder coated steel slide frame with sealed roller bearings rated to 600 pounds. A tray constructed of .125" smooth aluminum plate with four 3" sides shall be mounted to the slide frame. The slide frame shall extend 100% allowing the tray to be completely accessible from outside the compartment. The slide shall have a 3-1/4" deck height.

A "spring" lock shall hold tray in both the "in" and "out" positions. The "spring lock" operates with a spring-loaded pawl engaging a strike. The user pulls on the rod to release the lock, while the lock automatically re-engages for locking.

PULL-OUT AND DROP-DOWN

One (1) roll-out and tilt-down equipment tray shall be installed in the customer-specified compartment. The tray with roller bearing tracks shall be rated to a maximum load of 250 lb. Construction shall consist of four (4) inch tall extruded aluminum sides. Reflective material measuring 1” x 6” shall be installed on each front corner both on the face and side of tray for safety.

Track assembly shall allow tray to roll out and tilt down at approximately a 30-degree angle.

The shelf/tray shall be fitted with removable vinyl DRI Deck matting. The matting shall be interlocking modules approximately 12" square by 9/16" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

The floor area of the compartment shall be fitted with removable vinyl DRI Deck matting. The matting shall be interlocking modules approximately 12" square by 9/16" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

COMPARTMENT LIGHTS

Two (2) ROM or approved equal vertically mounted roll-up compartment LED V3 door lights shall be installed one each side of the door opening. The compartment lights shall be integrated into the roll-up door tracks with the light actuation with the door opening.

The lights shall have a polycarbonate lens to eliminate breakage from impact and eliminate heat buildup.

The compartment light will be controlled by a magnetic "On-Off" switch located on each compartment door.

RIGHT REAR COMPARTMENT

There shall be one (1) full height compartment located behind the rear wheels. The compartment shall be equipped with a full height single natural finish roll up door.

COMPARTMENT DEPTH

The compartment shall be 23" deep.

The compartment shall be equipped with the following

items: One (1) louver with filter shall be installed in

the compartment.

ADJUSTABLE SHELVING TRACKS

The compartments shall be equipped with two (2) aluminum adjustable tracks, vertically mounted, that are bolted in place for adjustable shelving and equipment mounting.

ADJUSTABLE SHELF

Three (3) adjustable shelf shall be constructed of .188” smooth aluminum plate with 1.5” formed vertical lip front & back. Shelf supports on each side to be constructed of .188” aluminum and bolted to an aluminum extrusion (mounted vertically) by use of 3/8” bolts and spring-loaded cam locks. If shelf is longer than 40” a reinforcement by aluminum gusset is to be placed full-length on bottom of shelf.

The shelf/tray shall be fitted with removable vinyl DRI Deck matting. The matting shall be interlocking modules approximately 12" square by 9/16" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

The floor area of the compartment shall be fitted with removable vinyl DRI Deck matting. The matting shall be interlocking modules approximately 12" square by 9/16" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

COMPARTMENT LIGHTS

Two (2) ROM or approved equal vertically mounted roll-up compartment LED V3 door lights shall be installed one each side of the door opening. The compartment lights shall be integrated into the roll-up door tracks with the light actuation with the door opening.

The lights shall have a polycarbonate lens to eliminate breakage from impact and eliminate heat buildup.

The compartment light will be controlled by a magnetic "On-Off" switch located on each compartment door.

REAR CENTER COMPARTMENT

There shall be one (1) full height compartment located at the rear of the apparatus. The compartment shall be equipped with a full height natural finish roll up door. The compartment shall be in depth to the over wheel compartment.

The compartment shall be equipped with the following:

One (1) louver with filter shall be installed in the compartment.

ADJUSTABLE SHELVING TRACKS

The compartments shall be equipped with two (2) aluminum adjustable tracks, vertically mounted, that are bolted in place for adjustable shelving and equipment mounting.

300# ROLLOUT TRAY

One (1) Slide Master SM3-LP Series low profile telescoping equipment tray(s) shall be installed in a standard depth compartment. The tray assembly shall have a silver powder coated steel slide frame with sealed roller bearings rated to 300 pounds. A tray constructed of .190" smooth aluminum plate with four 3" sides shall be mounted to the slide frame. The slide frame shall extend 100% allowing the tray to be completely accessible from outside the compartment. The slide shall have a 2-3/4" deck height.

An integrated manual quarter turn "gravity" lock shall hold tray in both the "in" and "out" positions. The "gravity lock" manually rotates a rod with a tab to engage the bottom frame.

1000# ROLLOUT TRAY

One (1) Slide Master SM3-SP Series mid profile telescoping equipment tray(s) shall be installed in a standard depth compartment. The tray assembly shall have a silver powder coated steel slide frame with sealed roller bearings rated to 1,000 pounds. A tray constructed of .190" smooth aluminum plate with four 3" sides shall be mounted to the slide frame. The slide frame shall extend 100% allowing the tray to be completely accessible from outside the compartment. The slide shall have a 3-7/8" deck height.

A "spring" lock shall hold tray in both the "in" and "out" positions. The "spring lock" operates with a spring-loaded pawl engaging a strike. The user pulls on the rod to release the lock, while the lock automatically re-engages for locking.

The floor area of the compartment shall be fitted with removable vinyl DRI Deck matting. The matting shall be interlocking modules approximately 12" square by 9/16" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

COMPARTMENT LIGHTS

Two (2) ROM or approved equal vertically mounted roll-up compartment LED V3 door lights shall be installed one each side of the door opening. The compartment lights shall be integrated into the roll-up door tracks with the light actuation with the door opening.

The lights shall have a polycarbonate lens to eliminate breakage from impact and eliminate heat buildup.

The compartment light will be controlled by a magnetic "On-Off" switch located on each compartment door.

REAR STEP

An 8" deep step shall be provided at the rear of the apparatus body, bolted in place and easily removable for replacement or repair. The tailboard shall be constructed of .125" aluminum diamond plate or equal non-slip surface.

A label shall be provided warning personnel that riding on the rear step while the apparatus is in motion is prohibited.

FRONT BODY PROTECTION PANELS

Aluminum tread plate overlays and panels shall be installed on the front of the body compartment from the lower edge to the top of the compartment doors.

REAR BODY PROTECTION PANELS

Aluminum tread plate overlays and panels shall be installed on the rear of the body from the lower edge to the top of the compartment doors. The material shall be bolted in place and sealed to prevent any moisture entry between the overlay

and the body structure.

ACCESS LADDER EZ CLIMB - LEFT REAR

There shall be a swing out and down access ladder supplied and installed on the apparatus, for accessing the top of the apparatus. It shall be of an all-aluminum design and shall incorporate treads six (6") inches deep and no more than eighteen (18") inches apart. The ground to the first step dimension, on level ground, shall be no more than twenty-four (24") inches. When in the deployed position the ladder shall have an angle of approximately 75-degrees to facilitate ascending and descending the ladder. The ladder shall be retained in the stowed and deployed position by two (2) gas cylinders and shall not require the use of lathes to hold it in position.

HANDRAIL REAR STEP

Two (2) extruded aluminum non-slip handrails, approximately 48" in length, shall be provided and vertically mounted on the rear access ladder, one (1) on each side.

One (1) extruded aluminum non-slip handrail, approximately 48" in length, shall be installed on the rear of the apparatus body, on the opposite side from the rear access ladder.

EXTRUDED ALUMINUM RUB RAILS

Full body length aluminum rub rails shall be bolted in place on the lower right and left body sides. The side rub rails shall be a heavy extruded aluminum "C" channel.

NYLON SPACERS FOR RUB RAILS

There shall be nylon spacers provided between the rub rail and the body. This shall allow wash out and replacement in the event of damage.

WHEEL WELL PROVISION LOCATION

The wheel well provisions shall be located on the left side of the apparatus, ahead of the rear wheels.

One (1) breathing air cylinder storage compartment shall be provided and located in the rear wheel well of the apparatus body.

The cylinder storage compartment shall be constructed entirely of aluminum. The door assemblies shall be bolted in-place and removable for repair or replacement.

Compartment shall be provided with SCBA cylinder scuff protection. A brushed aluminum door with push button trigger latch shall be provided.

One (1) one-inch (1") wide loop of black webbing shall be installed in each SCBA compartment to prevent the bottle from sliding out of the compartment in case of door failure. The loop shall be mounted, centered in the compartment and shall hang within one-inch (1") of the compartment floor to allow the bottle to pass by the strap when the bottle is placed in the compartment. The strap shall loop over the valve.

WHEEL WELL PROVISION LOCATION

The wheel well provisions shall be located on the left side of the apparatus, behind of the rear wheels.

FUEL FILL DOOR

A brushed aluminum fuel fill enclosure door shall be installed in the left side rear wheel well. A label indicating DIESEL FUEL ONLY shall be applied.

WHEEL WELL PROVISION LOCATION

The wheel well provisions shall be located on the right side of the apparatus, ahead of the rear wheels.

One (1) breathing air cylinder storage compartment shall be provided and located in the rear wheel well of the apparatus body.

The cylinder storage compartment shall be constructed entirely of aluminum. The door assemblies shall be bolted in-place and removable for repair or replacement.

Compartment shall be provided with SCBA cylinder scuff protection. A brushed aluminum door with push button trigger latch shall be provided.

One (1) one-inch (1") wide loop of black webbing shall be installed in each SCBA compartment to prevent the bottle from sliding out of the compartment in case of door failure. The loop shall be mounted, centered in the compartment and shall

hang within one-inch (1") of the compartment floor to allow the bottle to pass by the strap when the bottle is placed in the compartment. The strap shall loop over the valve.

WHEEL WELL PROVISION LOCATION

The wheel well provisions shall be located on the right side of the apparatus, behind the rear wheels.

One (1) breathing air cylinder storage compartment shall be provided and located in the rear wheel well of the apparatus body.

The cylinder storage compartment shall be constructed entirely of aluminum. The door assemblies shall be bolted in-place and removable for repair or replacement.

Compartment shall be provided with SCBA cylinder scuff protection. A brushed aluminum door with push button trigger latch shall be provided.

One (1) one-inch (1") wide loop of black webbing shall be installed in each SCBA compartment to prevent the bottle from sliding out of the compartment in case of door failure. The loop shall be mounted, centered in the compartment and shall hang within one-inch (1") of the compartment floor to allow the bottle to pass by the strap when the bottle is placed in the compartment. The strap shall loop over the valve.

UPPER BODY SIDE COMPARTMENT

Two (2) upper body compartment shall be provided top of body with dimensions per drawing.

The compartment shall have a lift-up door installed, constructed of 1/8" aluminum tread plate. The door shall have a stainless-steel hinge and dual gas openers. The door opening shall be flanged upward 1" to prevent water from running into compartments when the door is closed. Two (2) heavy duty socket and plunger latches shall be installed to hold the door along with a heavy-duty chrome grab handle to lift the door.

The compartment shall be located on the left side of the body.

The floor areas of the up to 30" long roof compartments shall be fitted with removable vinyl DRI Deck matting. The matting shall be interlocking modules

approximately 12" square by
9/16" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

COMPARTMENT LIGHT

Two (2) LED light fixture shall be installed on the wall of the compartment. The light shall have a clear lens.

Lights to be red/white combo

The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

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The compartment shall be located on the right side of the body.

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9/16" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

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Two (2) LED light fixture shall be installed on the wall of the compartment. The light shall have a clear lens.

Lights to be red/white combo

The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

POWER INVERTER

There shall be a DC to AC power inverter system with a 30-amp AC transfer switch furnished on the apparatus. The shore power shall be connected to the system AC output receptacle to supply power to the AC load. When the vehicle is underway and the shoreline power is disconnected, the automatic transfer switch connects the AC output receptacle to the power inverter that obtains power from the 12-volt battery system.

The Inverter shall be a Vanner model 20-1000TUL-DC with the following features and components:

- 1050-Watt Power Inverter.
- Automatic Transfer Switch.
- Underwriters Laboratories Listed and Certified.

CIRCUIT BREAKER BOX

One (1) circuit breaker box for single phase voltage equipment shall be provided capable of holding four (4) breakers.

CIRCUIT BREAKER BOX LOCATION

The circuit breaker box shall be installed in an outside body compartment exact location TBD by engineering.

LINE VOLTAGE WIRING INSTALLATION

Line voltage wiring in the apparatus shall be with Type SO or approved cable suitable for mobile applications. The flexible electrical cable shall have 600-volt insulation rated for at least 194 degrees F. All junction boxes shall conform to the National Electric Code and shall be accessible for service.

Electrical cable shall be supported within 6 inches of any junction box and at a minimum of every 24 inches of run. Supports shall be made of corrosion protected metal that does not cut or abrade the conduit or cable and shall be mechanically fastened to the vehicle.

Electrical cable shall not be attached to chassis suspension components, water or fuel lines, air or air brake lines, fire pump piping, hydraulic lines, exhaust system components, or low voltage wiring and shall be separated by a minimum of 12 inches from exhaust piping or properly shielded and separated from fuel lines by a minimum of 6 inches distance.

All wiring connections and terminations shall provide a positive mechanical and electrical connection. Connectors shall be installed in accordance with the manufacturer's instructions. Wire nuts or insulation displacement and insulation piercing connectors shall not be used.

120V ELECTRIC RECEPTACLE -- STRAIGHT BLADE

Twelve (12) 120-volt 20-amp straight blade, 3-prong duplex receptacle with spring loaded weatherproof cover shall be provided.

The electric receptacle shall be located inside the left side exterior body compartment behind the rear wheels.

REAR TRAILER HITCH

One (1) trailer hitch rated at approximately 12,000 pounds shall be installed at the rear of the apparatus and be attached to the body sub-frame assembly. The hitch shall include a removable receiver insert slide-in ball mount with a 2-5/16" ball and a 5/8" hitch and safety pin.

TRAILER BRAKE AND POWER PLUG

Trailer wiring shall be provided at the rear of the apparatus. One (1) 12-volt seven (7) pin electrical connector shall be wired to the chassis stop, running, turn lights and trailer brake connection. A 12-volt trailer brake controller shall be provided and installed.

BODY PAINT PROCESS

All bright metal fittings, if unavailable in stainless steel shall be heavily chrome plated. Iron fittings shall be copper plated prior to chrome plating. If applicable, any and all accessory times shall be removed from the body prior to cleaning and painting. Any accessory items that are to be painted, shall be painted separately and installed after the body is painted and cured.

All seams shall be caulked, both inside and along the exterior edges, with a

urethane automotive sealant to prevent moisture from entering between any body panels.

The body and all parts shall be thoroughly washed with a grease cutting solvent prior to any sanding. After the body has been sanded and the weld marks and minor imperfections are filled and sanded, the body shall be washed again to remove any contaminants on the surface.

The next two to four coats (depending on need) shall be a Sikkens High Solids Epoxy Gray Primer. The film build shall be 4-6 mils when dry. The primer surface coat, after appropriate dry time, shall be sanded with 320-600 grit sandpaper to ensure maximum gloss of the paint.
The last step is the application of at least three coats of polyurethane two-component color (single stage). The film build being 2-3 mils dry. The single stage polyurethane, when mixed with component catalyst shall provide a UV barrier to prevent fading and chalking.

INTERIOR COMPARTMENT FINISH

The interior of the eight (8) compartments shall be unpainted and have a D/A orbital sander finish.

TOUCH-UP PAINT

One (1) two (2) ounce bottle of touch-up paint shall be furnished with the completed truck at final delivery.

MEETING AND INSPECTIONS

Approved vendor will have a pre-build meeting to review specification and build time. At the pre-build meeting a deadline will be confirmed and agreed upon by both the Fleet Division, Police Department and approved vendor.

Approved vendor shall send pictures showing progress of the work conducted on a regular bases. (Frequency of pictures shall be established during the pre-build meeting).

Pre-delivery inspection will be conducted at the manufacture facility. **The cost of travel for the City must be included in the lump sum bid price.** The pre-delivery inspection will be conducted by Fleet & Police members.

LIGUIDATED DAMAGES

It is hereby understood and agreed by the bidders that time is of the essence in the delivery of supplies, services, materials or equipment of the character and quality specified in the bid document. In the event these specified supplies, services, materials or equipment are not delivered by the date agreed upon and confirmed by both parties, there will be deducted, not as a penalty but as liquidated damages, the

sum of $100 per day for each and every calendar day of delay beyond the time specified; except that if the delivery be delayed by any act, negligence or default on the part of the owner, public enemy, war, embargo and fire or explosion not caused by the negligence or intentional act of the contractor or his supplier)s, or by riot, sabotage or labor trouble that results from a cause or causes entirely beyond the control or fault of the contractor or his supplier(s), a reasonable extension of time as the procuring public body deems appropriate may be granted. Upon receipt of a written request and justification for an extension from the contractor, the purchasing office may extend the time for performance of the contract or delivery/installation of goods herein specified at the purchasing office's sole discretion for good cause shown.

Attachment A—Bid Price Form

The City of Greenville, North Carolina
PURCHASING OFFICE

Date _____

one (1) Police Rescue Equipment Vehicle per specifications

FORMAL Bid#18-19-18

Pursuant to General Statutes of North Carolina, Section 143-129, as amended, bids and proposals subject to the conditions and specifications herein, are invited for furnishing the following equipment, materials, services, or repair work. **All bids must be received by the City of Greenville's Financial Services Manager by 3:00 PM on Friday, February 1, 2019.**

Terms: Net 30

SHIP: **FOB DESTINATION**
CITY OF GREENVILLE

By: Denisha Harris, Financial Services Manager

POSITIVELY NO BIDS CONSIDERED UNLESS SUBMITTED ON THIS FORM
NOTICE TO BIDDERS: All Tax imposed upon any article on which you are bidding shall be shown as separate items and in no case included with price bid. Failure to comply with these conditions will be considered grounds for rejection.

ITEM #	QUANTITY	DESCRIPTION	UOM	UNIT PRICE
1	**1**	**Police Rescue Equipment Vehicle**	EA.	
		TOTAL LUMP SUM BID:		
		NO SUBSTITUTIONS ALLOWED		
		Freight charges shall be included in bid price		
		Sales Taxes should be listed separately and not included in Lump Sum Bid Total		

Attachment A—Signature Form

****MUST BE ATTACHED TO BID*****

City of Greenville
Financial Services Department/Purchasing Division

Formal Bid #18-19-18 Police Rescue Equipment Vehicle per specifications

A. Delivery/Turnaround Time for Vehicle after Construction Drawings are Approved: _____Days

B. List any exceptions taken to specifications including Warranty:

_____
_____
_____

Non-Collusion Compliance:
I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a bid for the same materials, supplies, or equipment and is in all respects fair without collusion or fraud. I understand collusive bidding is a violation of state and federal law and can result in fines, prison sentences, and civil damage awards. The bidder hereby makes an offer to the City of Greenville in accordance with the bid documents, including this Bid Proposal Form and all enclosures. The undersigned individual certifies that he or she is authorized to sign this bid for the bidder.

Date_____

The following are enclosed: (check all applicable)

___ Brochures

___ Samples

____Other

_____
OFFICIAL LEGAL NAME OF COMPANY

_____
ADDRESS

_____
CITY STATE ZIP CODE

_____
AUTHORIZED SIGNATURE

_____ _____
PRINT NAME TITLE

(____)_____(____)_____
TELEPHONE NO FAX NO.

_____
FEDERAL I.D. NUMBER

_____
EMAIL/WEB SITE ADDRESS