Request For Proposals (RFP) # LRRFD – 2022 – 01

# 2023 Rescue Unit 20’ Walk Around

Proposals will be received by the La Ronge Regional Fire Rescue Services until **12:01pm, Saskatchewan Time, on March 31st, 2022.**

All RFP documents must be submitted no later than the above-mentioned time to:


Town of La Ronge
La Ronge Regional Fire Rescue Services
Box 5680, 1212 Hildebrand Drive
S0J 1L0 La Ronge, SK Canada
Attn. **Keaton Cloud – Fire Chief**
Fax: 306-425-3076
Email: firechief@laronge.ca

## 1 Instructions & Terms to Bidders

- The Town of La Ronge is requesting proposals for a **2023 (or newer model year) Heavy Rescue Unit,** which is to include all standard vehicle features and all minimum emergency vehicle specifications listed in *Appendix A "RFP Minimum Specification*" sheet. Notwithstanding any provision in the listed specifications or other provision of this document, where minimum specifications are not met, specifications which will in the opinion of the Town of La Ronge provide sufficient capacity; size or performance for its requirements may be accepted in accordance with the Terms and Conditions of this RFP.

- Proposals will be received until **12:01pm Saskatchewan CST Time, Thursday March 31st, 2022.** Proposals will be opened at 12:01pm on Thursday March 31st, 2022 at the La Ronge Regional Fire Hall located at 701 Hildebrand Drive, La Ronge Saskatchewan. **Due to COVID-19, there will be no public openings.** The Town of La Ronge publishes Tender opportunities on Sasktenders and MERX in order to comply with the New West Partnership Trade Agreement.

- Both Technical and proposal document questions shall be directed to Keaton Cloud, Fire Chief at 306-425-3230 or by email at firechief@laronge.ca

- When submitting your proposal, you must submit the *RFP Bid Form* (Appendix B) and include the *RFP Minimum Specifications* (Appendix A) along with blueprints and/or a rendering of the product being offered. All unit prices must be clearly indicated. ***Proposals via email are accepted. Send to*** firechief@laronge.ca

  The Bid must not be restricted by a statement added to the *RFP Bid Form* or by a covering letter, or by alterations to the *RFP Bid Form* supplied unless otherwise provided herein. Adjustments to a proposal already submitted will not be considered.

  In the space provided on the *RFP Bid Form* a signature of the authorized signing authority of the firm bidding must be completed. If a joint bid is submitted, it must be signed and addressed on behalf of the bidder.

- Prices quoted are to be net prices and are to remain firm 30 days after the closing date and if selected, shall remain firm throughout the manufacturing phase until delivery. All pricing provided are to be in Canadian Currency only, and shall be inclusive of all applicable taxes, duties and import fees from the United States at the time of the RFP closing, where applicable and shall be F.O.B. to the Fire Department in the Town of La Ronge.

- If a discrepancy is found between the “Unit Price” and the “Extension”, the “Unit Price” shall govern in all instances. The Town of La Ronge reserves the right to correct such errors in the extensions, and re-total all amounts shown and consider the corrected total price as the Bidder’s intention once proposals are compared.

- Requests for prices received on previous RFPs will not be fulfilled.

- The Town of La Ronge reserves the right to accept all or part of this RFP.

- The Town of La Ronge reserves the right to cancel any order if the goods or services are deemed unsatisfactory.

- The Town of La Ronge also reserves the right to delete any portion of the work from the contract should it be deemed in the best interest of the La Ronge Regional Fire Department to do so.

- The obligations and rights of Bidders shall be those expressed herein. No terms, either implied or verbally expressed shall affect, restrict or in any way vary the written terms of this invitation to RFP. Not to limit the generality of the foregoing, no terms may be implied by virtue of custom or usage.

- The rights of the parties shall be governed by and the contractual terms shall be interpreted in accordance with the laws of the Province of Saskatchewan.

- The bids shall be open and irrevocable for thirty (30) calendar days from the RFP closing time and date.

- Any proposal is not necessarily accepted furthermore, the lowest bidder isn’t necessarily the awarded bidder.

- The Town reserves the right to give preference to the Bidder whose proposal includes any material, specifications or methods of execution that are deemed by the Fire Chief to be superior to those of any other Bidder for this RFP.

- The minimum specifications, list only the major details of the unit. As such, it is the Bidder's sole responsibility to deliver a fully equipped emergency vehicle with the appropriate compatible components to provide dependable & efficient emergency services.

- The apparatus shall meet or exceed all minimum mandatory requirements of the Canadian Motor Vehicle Safety Regulations and NFPA 1901 standards and testing requirements.

- The apparatus must meet all applicable Canadian Standards and have accepted standards such as CSA, ULC, EN, IEC and the vehicle must be legally sold in Canada.

- Bidders not responding to this RFP will be removed from the process if they have shown to not specifically meet any of the requirements of this RFP.

- With respect to bids, the Town reserves the right to refuse any or all bids or proposals where the Town deems it to be in the best interest of the Town to do so having regard, but not limited to questions of quality supply and service, timelines, past performance trustworthiness, solvency, monies owing or due to the Town and the existence or potential of legal disputes or conflicts with the Town of La Ronge, its Regional partners including; the Lac La Ronge Indian Band and the Northern Village of Air Ronge.

- Unit pricing must be extended and totalled accordingly on the bid form provided.

- The Town of La Ronge is willing to sign off on any potential fleet discounts should there be an option to do so.

- Should a dispute arise from the Terms and Conditions of this RFP regarding meaning, intent or ambiguity, the decision of the Town of La Ronge shall be final.

- The conditions outlined herein shall be part of the proposal.

## 2 RFP Process

Proposals received by the La Ronge Regional Fire Services **after 12:01pm, Saskatchewan (CST) on Thursday March 31st, 2022** will not be considered.

Submission **must** include the completed Minimum Specifications *(Appendix A)* along with RFP Bid Form *(Appendix B),* Freightliner Chassis Specifications, photometrics for scene lighting, blueprint drawings showing all sides of the apparatus and proposed decal/color mock up.

Upon closing, the Department will review all proposals for completeness. The Department will give favorable consideration to the Bidder meeting all the specifications required and providing the lowest bid, taking into consideration of such factors as suitability, price, availability, parts availability, warranty and ongoing service and historical relationship with the La Ronge Regional Fire Department.

## 3 Schedule

The following is the projected timeline of this RFP. Date of the delivery is approximate only and is flexible however, the awarded bidder is expected to have it delivered by the final date. Special consideration and understanding will be given in terms of the COVID-19 pandemic.

**RFP Release Date:** February 28th, 2022
**RFP Closing Date:** March 31st, 2022 @ 12:01pm (CST)
**Award of Contractual Agreement:** April 15th, 2022
**Delivery of Final Product – La Ronge Sk:** Within 2 years (Flexibility given with COVID-19 issues)

## 4 Requirements | Scope of Work

### 4.1 Project Goal

The successful manufacturing of a new 2023 20ft Walk Around Rescue Unit.

### 4.2 Bidder Qualifications

The successful Bidder must be able to meet and prove the following qualifications:

- Successful Bidder's must be able to provide a valid business license from the bidder's jurisdiction.
- The successful bidder must also have a proven track record of manufacturing fire apparatuses and provide a list of past similar apparatus builds for references.

## 4.3 Quality and Workmanship

The workmanship must be of the highest quality in its respective field. Special consideration will be given to the following points:

**a)** Safety. The design of the truck shall reflect best safety practices and shall comply with all applicable standards and regulations.

**b)** Performance. The apparatus must be designed, engineered and constructed with performance in mind. This shall include warranties and other provisions that will extend the longevity of the apparatus.

**c)** Accessibility. Ease for accessing various components, which require periodic maintenance or monitoring.

The final product must be rugged, and the design must be engineered & certified to carry the loads as specified and to meet or exceed the minimum road and speed requirements as set forth under "Performance tests and requirements" of the NFPA Standard 1901 (2016 Edition).

## 4.4 Engineering Design

The successful bidder shall be solely responsible for the design, construction and material used in the construction of the apparatus. The apparatus shall be of the latest design and type while using the most current industry construction techniques. Each bidder shall supply with their bid a detailed drawing consisting of the forward side, driver side, passenger side, rear side and top-down view of the apparatus.

This drawing shall be representative of the apparatus being proposed. The drawing must include but not be limited to all principal dimensions (height/width/length). Pictures, 3D rendering or brochures are also encouraged to better represent the quality of construction being proposed. The apparatus, assemblies, component parts, etc., shall be designed and constructed with consideration to the nature and distribution of the load to be sustained and to the general character of the service to which the apparatus is to be subjected.

The apparatus shall be designed and constructed so component parts can be removed for service and repair with standard tools. Any special tools needed to service any component of the apparatus built or supplied by the component manufacturer shall be supplied with the apparatus.

During the design and construction process the apparatus manufacturer shall take into consideration the ease of access to various areas requiring lubrication, inspection, service or adjustments. The design and materials must be of the highest quality in its respective field. It is expected that quality control inspections shall be performed at each step of the manufacturing process.

## 4.5 Operation and Maintenance Documents

The manufacturer shall supply, at time of delivery, at least two sets of complete Manufacturers Operation, Maintenance Manual and Service Documentation covering the completed apparatus as delivered and accepted. The documentation shall address the inspection, service, and operations of the fire apparatus and all major components thereof. The manufacturer shall also provide documentation of the following items for the entire apparatus and each major operating system or major component of the apparatus:

**a)** Manufacturer's name and address
**b)** Country of manufacture
**c)** Source of service and technical information
**d)** Parts and replacement information
**e)** Descriptions, specifications, and ratings of the chassis
**f)** Wiring diagrams for low voltage and line voltage systems to include the following information: representations of circuit logic for all electrical components and wiring, circuit identification, connector pin identification, zone location of electrical components, safety interlocks, alternator-battery power distribution circuits
**g)** Lubrication charts and recommended lubrication intervals
**h)** Operating instructions for the chassis, any major components, and any auxiliary systems
**i)** Instructions regarding the frequency and procedure for recommended maintenance
**j)** Overall apparatus operating instructions
**k)** Safety considerations
**l)** Limitations of use

## 4.6 Build Process

Proposals shall only be accepted from bidders who are able to provide a virtual build progress. Digital images shall be provided to the Fire Chief by means of email at each building phase and/or upon request to do so.

Questions or clarification during the build process with regards to the specifications outlined in *Appendix A,* shall be brought to the Fire Chief's attention immediately.

Unexpected or overlooked costs missed by the bidder & manufacturer to meet the awarded RFP requirements outlined in *Appendix A,* shall be the responsibility of the bidder to cover the full financial costs.

### 4.7 Pre-Build Meeting

The bidder shall be responsible for a pre-build conference meeting with the Fire Chief and Deputy Chief. All costs associated with the meeting shall be the responsibility of the bidder.

### 4.8 Manufacturer ISO Certification

The manufacturer shall also be certified to operate a Quality Management System under the requirements of ISO 9001. These standards sponsored by the International Organization for Standardization (ISO) specify the quality systems that shall be established by the manufacturer for design, manufacture, installation and service. A copy of the certificate of compliance shall be included with the bid. Failure to do so will disqualify the bidder from the biding process.

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## 5 RFP Minimum Specifications

The Minimum Specifications sheet in *Appendix A* will be used in the evaluation to determine the successful Bidder. Meeting ALL specifications and having the lowest bid will be given the strong favourability as the successful Bidder. It is understood, that the bidder with the lowest bid isn't necessarily the successful bidder.

## 6 Payment Terms

The Purchaser agrees to purchase and pay for the apparatus and miscellaneous equipment pursuant to the following terms and conditions:

**a)** All prices shall list GST and PST separately.

**b)** Payment of the apparatus will be upon delivery and acceptance by the Fire Chief. Final inspection will be completed at the manufacturer's facility. Acceptance of the final product will be when the apparatus has been successfully delivered to the fire department and further inspected by the Fire Chief and the Towns heavy duty mechanics.

**c)** The apparatus, without exception, will not be placed in service prior to full payment of apparatus to the bidder.

**Evaluation Criteria:**

| Evaluation Criteria | Maximum Points Assigned |
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| The Bidders' proposed financial costs in Canadian dollars | 65% |
| Bidders' ability to design and construct the apparatus close to the specifications listed in *Appendix A* | 10% |
| Timing & proposed delivery schedule | 5% |
| Firm profile, reputations, warranties, etc. | 10% |
| Past experience with Town of La Ronge and the La Ronge Regional Fire Department | 10% |
| TOTAL | **100** |

***(Appendix A) – Minimum Specifications***
***(Appendix B) – Bid Form***

## 7 Submission Checklist

- ☐ RFP Bid Form
- ☐ Yes/No Minimum RFP Specifications
- ☐ Freightliner Chassis Specifications
- ☐ Photometrics for all truck mounted scene lighting
- ☐ Top, driver, passenger, front and rear side blueprint drawings of proposed unit
- ☐ Decal/color mock up (options are encouraged but know, the design may change)
- ☐ ISO Certification
- ☐ Warranties

# La Ronge Regional Fire & Rescue Services

## Appendix A

### Request For Proposal

### RFP # LRRFD-2022-01

### Walk Around 20ft Rescue Apparatus

### Minimum Specifications

| RFP Minimum Specifications | Yes | No | Deviations (Explain) |
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| **DELIVERY**<br><br>The apparatus shall be delivered complete and ready for operation in ____ days from date of preconstruction conference, providing there are no delays with the chassis delivery. The apparatus, to ensure proper break-in of all components, **shall be delivered under its own power - rail or truck freight is not acceptable.** Any damage sustained during transport is the responsibility of the bidder.<br><br>One (1)<br>**MAX HEIGHT**<br><br>The maximum height of the apparatus shall not exceed:<br><br>*** Max OAH of 12' ***<br><br>One (1)<br>**OVERALL LENGTH**<br><br>No length restriction has been specified for this apparatus (However should not exceed our needs that has been outlined in this minimum spec sheet).<br><br>One (1)<br>**OVERALL WIDTH**<br><br>An overall width restriction has not been specified for this apparatus. (Not to exceed road legal requirements)<br><br>One (1)<br>**WHEELBASE**<br><br>A wheelbase restriction has not been specified for this apparatus.<br><br>One (1)<br>**ANGLE OF APPROACH** | | | |

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| The angle of approach for the apparatus shall not be less than eight (8) degrees as specified by the current edition of NFPA 1901.<br><br>One (1)<br>**ANGLE OF DEPARTURE**<br><br>The angle of departure for the apparatus shall not be less than eight (8) degrees as specified by the current edition of NFPA 1901.<br><br>One (1)<br>**FREIGHTLINER CHASSIS**<br><br>A Freightliner 4-door chassis (single axle) per the attached specifications shall be furnished. The bidder must ensure that a fully operational chassis and final product that meets our minimum specified needs.<br><br>Key items: (not limited)<br><br>*Exhaust system to the driver's side.<br>*A/C and cab heater.<br>*Standard AM/FM radio<br>*Standard rollup windows<br>*LED headlights<br>*Dual air horns mounted on front fenders<br>*Aluminium/chrome rims<br>*Batteries and alternator that are sufficient in size to meet all of the electrical needs of all apparatus mounted equipment and additional tools (125% of power needs)<br>*Power adjustable mirrors (Mirrors to be black)<br>*All air ride seats (4-person cab) with seatbelt alarms (pleather)<br>*Approximate added firefighter equipment loads (minimum 4000lb) and the chassis must be engineered with this in mind.<br>*Rear axle lock<br>*Cummins turbo diesel engine (min 350hp)<br>*Allison automatic transmission<br>*Expected front axle loads = 14000.0lbs<br>*Expected rear axle loads = 26000.0lbs<br>*Expected GVW = 40000.0lbs (this must | | | |

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| include all apparatus mounted equipment and the chassis build shall be engineered with these factors included.)<br>*Rubber cab flooring<br><br>One (1)<br>**LOW VOLTAGE ELECTRICAL SYSTEM SPECIFICATIONS**<br><br>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, and the requirements of the applicable NFPA standards.<br><br>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 and NFPA standards. 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.<br><br>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. | | | |

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| 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.<br><br>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.<br><br>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 and identified on a reference chart or electrical wiring schematic per requirements of applicable NFPA 1901 standards.<br><br>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 | | | |

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| electro-magnetic interference suppression provided as required in applicable SAE standards.<br><br>The electrical system shall include the following:<br><br>• 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.<br><br>• The electrical wiring shall be harnessed or be placed in a protective loom.<br><br>• 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.<br><br>• 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.<br><br>• 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.<br><br>• All lights that have their sockets in a weather exposed area shall have corrosion preventative compound added to the socket terminal area.<br><br>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 | | | |

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| 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.<br><br>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.<br><br>**NFPA REQUIRED TESTING OF ELECTRICAL SYSTEM**<br><br>The apparatus shall be electrically tested upon completion of the vehicle and prior to delivery. The electrical testing, certifications, and test results shall be submitted with delivery documentation per requirements of the applicable NFPA standards. The following minimum testing shall be completed by the apparatus manufacturer:<br><br>1. Reserve capacity test:<br><br>The engine shall be started and kept running until the engine and engine compartment temperatures are stabilized at normal operating temperatures and the battery system is fully charged. The engine shall be shut off and the minimum continuous electrical load shall be activated for ten (10) minutes. All electrical loads shall be turned off prior to attempting to restart the engine. The battery system shall then be capable of restarting the engine. Failure to restart the engine shall be considered a failed test. | | | |

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| 2. Alternator performance test at idle:<br><br>The minimum continuous electrical load shall be activated with the engine running at idle speed. The engine temperature shall be stabilized at normal operating temperature. The battery system shall be tested to detect the presence of battery discharge current. The detection of battery discharge current shall be considered a test failure.<br><br>3. Alternator performance test at full load:<br><br>The total continuous electrical load shall be activated with the engine running up to the engine manufacturer's governed speed. The test duration shall be a minimum of two (2) hours. Activation of the load management system is permitted during this test. However, if an alarm sounds due to excessive battery discharge, as detected by the system requirements in the NFPA standards, or a system voltage of less than 11.7 volts dc for more than 120 seconds is present, the test has failed.<br><br>4. Low voltage alarm test:<br><br>Following the completion of the above tests, the engine shall be shut off. The total continuous electrical load shall be activated and shall continue to be applied until the excessive battery discharge alarm activates. The battery voltage shall be measured at the battery terminals. With the load still applied, a reading of less than 11.7 volts dc for a 12-volt system shall be considered a test failure. The battery system shall then be able to restart the engine. Failure to restart the engine shall be considered a test failure.<br><br>**<u>NFPA REQUIRED DOCUMENTATION</u>**<br><br>The following documentation shall be provided on delivery of the apparatus: | | | |

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| **a.** Documentation of the electrical system performance tests required above.<br><br>**b**. A written load analysis, including:<br><br>1. The nameplate rating of the alternator.<br><br>2. The alternator rating under the conditions.<br><br>3. Each specified component load.<br><br>4. Individual intermittent loads.<br><br>One (1)<br>**WEATHER RESISTANT ELECTRICAL JUNCTION BOX**<br><br>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 pump compartment.<br><br>One (1)<br>**HIGH IDLE SYSTEM**<br><br>There shall be a high idle system furnished and installed on the apparatus. The high idle system shall have an on/off switch located in the chassis on the switch console. The system shall have an interlock that will disable the solenoid if the parking brake is not completely set.<br><br>One (1)<br>**ELECTRICAL CONSOLE WITH EMERGENCY LIGHT SWITCH PANEL – THERMAL COATED**<br><br>An electrical console shall be constructed of .125" black LineX 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 | | | |

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| designed as the switch panel for all emergency light switches. The switch panel shall be hinged for easy access to the switch connections.<br><br>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.<br><br>**SWITCHES**<br><br>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.<br><br>One (1)<br>**BINDER STORAGE MODULE**<br><br>One (1) cab storage module shall be provided with minimum dimensions of 5" wide x 12.5" long x 8" deep. The module shall accommodate a minimum of two (2) 2" three ring binders. The compartment shall be fabricated of smooth aluminum with a D/A orbital sander finish. The module shall include a nylon safety belt for retaining the binder when not in use. The storage module shall be mounted within the chassis cab and accessible to the left and right front seating positions.<br><br>One (1)<br>The cabinet's exterior finish shall match the interior finish of the chassis cab.<br><br>One (1)<br>The cabinet's interior shall have a natural finish.<br><br>One (1) | | | |

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| **BATTERY SYSTEM**<br>The battery system shall be supplied with the chassis.<br><br>One (1)<br>**MASTER ELECTRIC SWITCH**<br><br>One (1) 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.<br><br>One (1)<br>**BATTERY CHARGER**<br><br>A Blue Sea Systems P12, 40-amp, 90-264VAC battery charger will be supplied with the apparatus. The charger is capable of charging batteries and functioning as a continuous 40-amp 12VDC power supply.<br><br>The charger features a weather-resistant cast aluminum housing.<br><br>One (1)<br>**SUPPLEMENTAL AIR BRAKE COMPRESSOR**<br><br>One (1) Blue Sea, 12 Volt air compressor shall be installed to maintain the pressure in the braking system. A pressure switch shall sense air pressure loss and engage the compressor to maintain the air system at 95 PSI. The unit shall be wired to the 12 Volt power supply off the battery charger and shall be installed in a well-ventilated area for cooling.<br><br>One (1)<br>**BATTERY CHARGER DISPLAY**<br><br>One (1) Blue Sea EV battery charger display shall be installed. | | | |

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| **AUTO-EJECT**<br><br>A Blue Sea Systems "Sure-Eject" 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.<br><br>One (1)<br>**SHORE POWER PLUG**<br><br>The shore power plug shall be located at the left front cab door.<br><br>Three (3)<br>**12 VOLT POWER SOURCE**<br><br>Three (3) 12-volt power and ground connection rated at 30 amps shall be provided on the apparatus for the installation of a mobile two-way radio.<br><br>Three (3)<br>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.<br><br>One (1)<br>**BACKUP CAMERA SYSTEM**<br><br>A Zone Defense camera system, complete with an 7" LCD black/white display monitor, shall be supplied. The camera shall activate when the transmission is placed in reverse. Mounted high on driver side, next to rear staircase.<br><br>One (1)<br>**HAND LIGHTS**<br><br>All NFPA required portable hand lights supplied by the customer must be installed before the apparatus is placed into service. | | | |

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| Three (3)<br>**RADIO ANTENNA BASE**<br><br>Three (3) radio antenna base shall be supplied and installed on the apparatus, the antenna coax terminating in the cab. The location shall be determined by the customer.<br><br>One (1)<br>**MARKER LIGHTS**<br><br>LED marker lights shall be installed on the vehicle in conformance to the Canadian Motor Vehicle Safety Standard requirements.<br><br>One (1)<br>**LICENSE PLATE BRACKET**<br>Stainless steel license plate bracket shall be provided at the rear of the apparatus. The bracket shall have a LED light.<br><br>One (1)<br>**HEADLIGHTS**<br><br>One (1) pair of Firetech LED headlights, or equivalent LED headlights.<br><br>***No halogen headlights***<br><br>One (1)<br>**TAIL LIGHTS**<br><br>One (1) pair of Whelen M6 LED tail/brake lights shall be provided. The rectangular 4"x 6" lights shall be red.<br><br>One (1)<br>**TURN SIGNALS**<br><br>One (1) pair of Whelen M6 LED turn signals with populated sequential chevron arrow shall be provided. | | | |

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| One (1)<br>**BACKUP LIGHTS**<br><br>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.<br><br>One (1)<br>**FOUR LIGHT HOUSING**<br><br>One (1) pair of chrome plated tail light housings shall be supplied. Each housing shall be designed to hold four (4) Whelen M6 rear lights located at the lower rear corners of the body.<br><br>One (1)<br>**MID BODY LED TURN SIGNALS**<br><br>One (1) pair of mid-body LED turn signals shall be provided. The location of the turn lights shall be at mid-body near the rear wheel axle on both sides.<br><br>One (1)<br>**GROUND LIGHTS**<br><br>There shall be two (2) FireTech FT-CU-HD-12 LED ground lights provided under the front bumper.<br><br>The ground lighting shall be activated when the parking brake is set.<br><br>One (1)<br>**CAB GROUND LIGHTS**<br><br>Four (4) LED ground lights shall be installed on the chassis cab, one under each cab door. | | | |

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| One (1)<br>**CAB STEP LIGHTS**<br><br>There shall be LED cab step lights supplied below the chassis cab doors. The lights shall be mounted below the cab doors and illuminate the chassis cab steps. There shall be four (4) LED lights located on each side of the chassis cab.<br><br>One (1)<br>**GROUND LIGHTS**<br><br>There shall be two (2) FireTech FT-CU-HD-12 LED ground lights provided under the mid-body of the apparatus, one each side.<br><br>The ground lighting shall be activated when the parking brake is set.<br><br>One (1)<br>**GROUND LIGHTS**<br><br>There shall be two (2) FireTech FT-CU-HD-12 LED ground lights provided under the rear step of the apparatus.<br><br>The ground lighting shall be activated when the parking brake is set.<br><br>One (1)<br>**GROUND LIGHTS**<br><br>There shall be two (2) FireTech FT-CU-HD-12 LED ground lights provided behind the rear wheels of the apparatus, one each side.<br><br>The ground lighting shall be activated when the parking brake is set.<br>The ground lights shall automatically activate when the parking brake is applied.<br><br>Two (2)<br>**REAR TAILBOARD LIGHTS**<br><br>Two (2) LED step lights with clear lens shall be installed to illuminate the step surfaces at | | | |

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| the rear of the apparatus body.<br><br>Two (2)<br>Federal Signal Commander dual 10 LED strip light, model, shall be installed to illuminate the walkway area. Each light stick shall feature 18 white LEDs and be fully encapsulated for all weather and vibration resistance. The light stick shall be provided with a 5-year free replacement warranty. The light shall be 1" x 11-½", with the 18 LEDs creating a 10" light strip. The dual walkway light shall include two (2) Commander 10 strip lights horizontally mounted into a 45-degree stainless steel bracket.<br><br>One (1)<br>The step/walkway light switch shall be installed and wired to the parking brake.<br><br>Six (6)<br>**SCENE LIGHT**<br><br>Six (6) FireTech Guardian Junior FT-GSMJR scene light shall be provided. The fixture shall be designed to attach to the side of the apparatus and emit light both straight down the side of the body, and in a perpendicular plane to the mounting sheet on to the scene area near the apparatus. The fixture shall incorporate 3 rows of LEDs, with the center row of 4 LEDs using conical acrylic optics mounted in alignment with each other. The other two rows of LEDs shall use an integrated linear optic to emit light downward asymmetrically. A moisture blocking vent valve shall be installed in the body of the fixture to allow for equalization of internal pressure without introduction of moisture into the housing.<br><br>Six (6)<br>The fixture shall have a black housing, black rubber gasket and a chrome trim bezel. | | | |

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| Two (2)<br>**SCENE LIGHT LOCATION**<br><br>Two (2) scene light shall be located on the left side of the apparatus body.<br><br>Two (2)<br>**SCENE LIGHT LOCATION**<br><br>Two (2) scene light shall be located on the right side of the apparatus body.<br><br>Two (2)<br>**SCENE LIGHT LOCATION**<br><br>Two (2) scene light shall be located on the rear of the apparatus body.<br><br>One (1)<br>**SCENE LIGHT SWITCHING**<br><br>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 shall be able to activate while the apparatus is in motion.<br><br>One (1)<br>**SCENE LIGHT SWITCHING**<br><br>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 shall be able to activate while the apparatus is in motion.<br><br>One (1)<br>**SCENE LIGHT SWITCHING**<br><br>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". Scene light shall be able to activate while the apparatus is in motion. | | | |

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| One (1)<br>**SCENE LIGHT SWITCHING**<br><br>The rear scene lights shall activate automatically upon placing the transmission into reverse.<br><br>One (1)<br>**DOOR OPEN LIGHT**<br><br>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 Whelen OS red LED light and shall be properly marked and identified.<br><br>One (1)<br>**ELECTRONIC SIREN**<br><br>One (1) Federal Signal PA-300, 200-watt full function electronic siren shall be mounted in the cab. The siren shall have the following features: electronic air horn, wail, yelp, Hi-Lo, P.A. and shall have a hard-wired microphone. The optional TAP II feature allows the drier to change the siren tone via the vehicle's horn ring. The siren shall be capable of driving one (1) or two (2) 100-watt speakers. The system shall automatically be protected from short circuits.<br><br>One (1)<br>**SPEAKER**<br><br>One (1) Cast Products Model #SA4301 100-watt speaker shall be installed on the apparatus, "Through-the-bumper", with flat mounting flange. | | | |

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| One (1)<br>**SPEAKER LOCATION**<br><br>The siren speaker shall be installed on the apparatus bumper extension, as determined by the body manufacturer.<br><br>One (1)<br>**SIREN SUB WOOFER SYSTEM**<br><br>One (1) Federal Signal "Rumbler", model "Rumbler-3", shall be installed with the siren. The "Rumbler" provides a secondary, low frequency duplicate tone of the siren. The "Rumbler" allows the system to sense the currently enabled siren tone signal, reduce the frequency by 75% and amplify the sound through a pair of high output woofers. The system's timer allows the tone for 8 seconds and then automatically shuts off.<br><br>One (1)<br>**LIGHTBAR**<br><br>One (1) Whelen Liberty II Trio light bar shall be included with the apparatus cab. The light bar shall be mounted on the roof of the cab towards the front, above the windshield.<br><br>The light bar shall feature:<br>• A 59" light bar designed for high performance<br>• Red/blue configuration, with white "wig-wag" function that activates when the transmission is in drive.<br>• Left, forward, right side of the light bar to be illuminated. (Rear facing LEDs deleted)<br>• Clear dome<br><br>One (1)<br>**EMERGENCY LIGHTS ACTIVATION**<br><br>All emergency lights shall be activated through the master warning switch. | | | |

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| One (1)<br>**UPPER REAR WARNING LIGHTS**<br><br>One (1) pair of Whelen model M9 LED warning lights shall be installed, one each side on the upper rear of the apparatus body. The dimensions of the lights shall be 6-1/2" x 10-3/8".<br><br>One (1)<br>The driver side warning light shall be a Whelen Model M9RC red Super-LED™ with clear lens.<br><br>One (1)<br>The officer side warning light shall be a Whelen Model M9BC blue Super-LED™ with clear lens.<br><br>Two (2)<br>Each light shall be mounted with a Whelen Model M9FC chrome flange.<br><br>One (1)<br>**UPPER SIDE FRONT WARNING LIGHTS**<br><br>One (1) pair of Whelen model M9 LED warning lights shall be installed, on the upper portion of the body side, towards the front. The dimensions of the lights shall be 6-1/2" x 10-3/8".<br><br>One (1)<br>The driver side warning light shall be a Whelen Model M9RC red Super-LED™ with clear lens.<br><br>One (1)<br>The officer side warning light shall be a Whelen Model M9BC blue Super-LED™ with clear lens.<br><br>Two (2)<br>Each light shall be mounted with a Whelen Model M9FC chrome flange. | | | |

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| One (1)<br>**UPPER SIDE REAR WARNING LIGHTS**<br><br>One (1) pair of Whelen model M9 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 6-1/2" x 10-3/8".<br><br>One (1)<br>The driver side warning light shall be a Whelen Model M9RC red Super-LED™ with clear lens.<br><br>One (1)<br>The officer side warning light shall be a Whelen Model M9BC blue Super-LED™ with clear lens.<br><br>Two (2)<br>Each light shall be mounted with a Whelen Model M9FC chrome flange.<br><br>One (1)<br>**LOWER FRONT WARNING LIGHTS**<br><br>One (1) 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".<br><br>One (1)<br>The driver side warning light shall be a Whelen Model M6RC red Super-LED™ with clear lens<br><br>One (1)<br>The officer side warning light shall be a Whelen Model M6BC blue Super-LED™ with clear lens. | | | |

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| Two (2)<br>Each light shall be mounted with a Whelen Model M6FC chrome flange.<br><br>One (1)<br>**INTERSECTION WARNING LIGHTS**<br><br>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".<br><br>One (1)<br>The driver side warning light shall be a Whelen Model M6RC red Super-LED™ with clear lens.<br><br>One (1)<br>The officer side warning light shall be a Whelen Model M6RC red Super-LED™ with clear lens.<br><br>Two (2)<br>Each light shall be mounted with a Whelen Model M6FC chrome flange.<br><br>One (1)<br>**LOWER MID-BODY WARNING LIGHTS**<br><br>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".<br><br>One (1)<br>The driver side warning light shall be a Whelen Model M2WBC wide-angle blue Super-LED™ with clear lens.<br><br>One (1)<br>The officer side warning light shall be a Whelen Model M2WBC wide-angle blue Super-LED™ with clear lens. | | | |

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| Two (2)<br>Each light shall be mounted with a Whelen Model M2FC chrome flange.<br><br>One (1)<br>**LOWER REAR SIDE WARNING LIGHTS**<br><br>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".<br>One (1)<br>The driver side warning light shall be a Whelen Model M2WRC wide-angle red Super-LED™ with clear lens.<br><br>One (1)<br>The officer side warning light shall be a Whelen Model M2WRC wide-angle red Super-LED™ with clear lens.<br><br>Two (2)<br>Each light shall be mounted with a Whelen Model M2FC chrome flange.<br><br>One (1)<br>**LOWER REAR WARNING LIGHTS**<br><br>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".<br><br>One (1)<br>The driver side warning light shall be a Whelen Model M6RC red Super-LED™ with clear lens.<br><br>One (1)<br>The officer side warning light shall be a Whelen Model M6BC blue Super-LED™ with clear lens. | | | |

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| One (1)<br>**TRAFFIC ARROW LIGHT**<br><br>Two (2) Federal Signal MicroPulse SignalMaster, Model MPPSSM23-A-30, 23" four (4) amber MicroPulse 1200 lamp units shall be installed at rear of the apparatus body, one each side as space permits.<br><br>A model #331105 controller shall be located in the cab accessible to the driver and officer. The controller shall include four tactile membrane switches and a slide selector for the direction of traffic flow.<br>One (1)<br>The traffic arrow light shall be surface mounted at the rear of the apparatus body, one on each side of the rear staircase.<br><br>One (1)<br>**FLUID DATA PLAQUE**<br><br>One (1) fluid data plaque containing required information shall be provided based on the applicable components for this apparatus, compliant with NFPA Standards:<br><br>• Engine oil<br>• Engine coolant<br>• Chassis transmission fluid<br>• Drive axle lubricant<br>• Power steering fluid<br>• Pump transmission lubrication fluid<br>• Other NFPA applicable fluid levels or data as required<br>Location shall be in the driver's compartment or on driver's door.<br><br>One (1)<br>**DATA & WARNING LABELS**<br><br>HEIGHT LENGTH & WEIGHT<br><br>A highly visible label indicating the overall height, length, and weight of the vehicle shall be installed in the cab dash area. | | | |

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| One (1)<br>NO RIDE LABEL<br><br>One (1) "NO RIDERS" label shall be applied on the vehicle at the rear step area or other applicable areas. The label shall warn personnel that riding in or on these areas, while the vehicle is in motion is prohibited.<br><br>One (1)<br>CAB SEATING POSITION LIMITS<br><br>One (1) label shall be installed in the cab to indicate seating positions for firefighters. A weight allowance of 250 pounds for each shall be factored into the gross vehicle weight rating of the chassis.<br><br>One (1)<br>HELMET WARNING TAG<br><br>One (1) label shall be installed in the cab, visible from each seating position. The label shall read "CAUTION: DO NOT WEAR HELMET WHILE SEATED." Helmets must be properly stowed while the vehicle is in motion according to the current edition of NFPA 1901.<br><br>One (1)<br>**REAR TOWING PROVISIONS**<br><br>There shall be two tow eyes furnished under the rear of the body and attached directly to the chassis frame rails. 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.<br><br>One (1)<br>The tow plates shall be painted black. | | | |

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| One (1)<br>**HUB AND LUG NUT COVERS**<br><br>The apparatus shall have chrome or stainless-steel hub and lug nut covers on the front and single rear axles.<br><br>One (1)<br>**TIRE PRESSURE INDICATOR**<br><br>There shall be a tire pressure indicator, p/n RWTG1235, at each tire's valve stem on the vehicle that shall indicate if there is insufficient pressure in the specific tire.<br><br>One (1)<br>**EXHAUST HEAT SHIELD**<br><br>A heat shield shall be installed under the body in the areas where the exhaust system is routed.<br><br>One (1)<br>**EXHAUST OUTLET PROVISION**<br><br>Provisions shall be made for the department to install a Plymovent exhaust outlet adapter for the diesel exhaust extraction system.<br><br>*** Exhaust system to the driver side near the rear axle. ***<br><br>One (1)<br>**FRONT MUD FLAPS**<br><br>One (1) pair of black mud flaps shall be installed behind the front wheels.<br><br>One (1)<br>**REAR MUD FLAPS**<br><br>One (1) pair of black mud flaps shall be installed behind the rear wheels. | | | |

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| One (1)<br>**APPARATUS WHEEL CHOCKS**<br><br>One (1) pair of wheel chocks<br>*** To be mounted under the body, near rear driver side axle in custom housing. ***<br><br>One (1)<br>**CAB ENTRANCE STEPS**<br><br>The four (4) door chassis shall be equipped with a modular step/fuel tank enclosure constructed from slip resistant aluminum tread plate to conform with applicable NFPA standards. The step/enclosure is to completely cover the fuel tank, and is to include a radius cut-out allowing access to the fuel tank fill. The entire step/enclosure is to be of a one-piece design, bolted in place for ease of removal.<br>Heavy channel steel underbody supports shall be provided to support the right and left side cab entrance steps. Supports shall be attached directly to the chassis frame rails, and shall provide adequate support to the steps to minimize flex and distortion.<br><br>The overlay shall be provided with a storage compartment. A hinged door with latch shall be provided on the storage compartment.<br><br>One (1)<br>**COMPARTMENT MATTING**<br><br>One (1) cab step compartment floor shall be fitted with removable vinyl Turtle Tile matting. This material shall be resistant to temperature, ultra-violet radiation, mechanical impacts, chemical actions and be corrosion free.<br><br>Two (2)<br>**CAB STEP ENCLOSURE GRATING**<br><br>The cab step enclosure shall be provided with a multi-directional aggressive gripping surface incorporated into the aluminum | | | |

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| diamond plate and shall comply with NFPA 1901 standards.<br><br>Four (4)<br>**HELMET SECUREMENT**<br><br>Four (4) Zico model UHH-2 helmet holders shall be supplied on the apparatus. The Zico holder safety stores your helmet. The model UHH-2 is compliant for use inside of the crew cab. Place the helmet hook on the red knob and pull the strap to lock the helmet in place. The holder fits any size helmet without any major adjustments. It is safely stored and always within quick access. Simply pull the strap down and remove the helmet.<br><br>***Mounted horizontally in cab interior on the ceiling near each seat. ***<br>One (1)<br>**INTERIOR CABINET**<br><br>There shall be one (1) full height storage cabinet installed on the back wall of the interior cab. The cabinet shall be constructed of smooth aluminum plate. The cabinet shall have minimum interior dimensions of 36" Wide x 18" Deep x Full Height with adjustable shelving.<br><br>The cabinet shall be equipped with a roll-up door constructed of anodized aluminum.<br><br>One (1)<br>The cabinet's exterior finish shall match the interior finish of the chassis cab.<br><br>One (1)<br>The cabinet's interior shall have a natural finish.<br><br>Two (2)<br>Two (2) adjustable shelves shall be installed in the interior cab compartment. The shelf shall be constructed from aluminum. | | | |

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| One (1)<br>COMPARTMENT LIGHT<br><br>One (1) ROM vertically mounted roll-up compartment LED V3 door light shall be installed on one side of the door opening. The compartment light shall be integrated into the roll-up door track with the light actuation with the door opening.<br><br>The light shall have a polycarbonate lens to eliminate breakage from impact and eliminate heat buildup.<br><br>*** locate in rear cabinet. ***<br><br>One (1)<br>**BATTERY JUMP START LUGS**<br><br>A method for quickly connecting jumper cables shall be installed on the apparatus. The system shall be internally wired to the 12-volt chassis batteries and terminate with positive and negative lugs located near the driver's door. The lugs shall be covered with color-coded rubber plugs, red for positive and black for negative. An identification label shall be applied.<br><br>One (1)<br>**1/8" ALUMINUM BODY**<br><br>The body shall be fabricated of aluminum extrusions, smooth aluminum sheet and aluminum treadplate.<br><br>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. | | | |

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| 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.<br><br>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.<br><br>The extrusions shall be designed as structural-framing members with the smooth aluminum and treadplate fabricated to form compartments, and floors. All aluminum material shall be welded together using the latest mig spray pulse arc welding system.<br><br>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.<br><br>All exterior compartments shall have polished aluminum drip moldings installed above the doors where necessary to prevent water from entering the compartments.<br><br>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. | | | |

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| 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.<br><br>FASTENERS<br><br>All aluminum and stainless-steel components shall be attached using stainless steel fasteners.<br><br>Compartment door hinges, handrails and running boards shall be attached using minimum 1/4" diameter machine bolt fasteners.<br><br>3/16" diameter fasteners shall only be used in non-structural areas such as; door handles, trim moldings, gauge mounting, etc.<br><br>*** Build extra support under "R4" compartment floor for installation of SCBA fill station and cascade system***<br><br>One (1)<br>**ELECTROLYSIS CORROSION CONTROL**<br><br>The apparatus shall be assembled using ECK or electrolysis corrosion control, on all high corrosion potential areas, such as door latches, door hinges, trim plates, fenderettes, etc. This coating is a high zinc compound that shall act as a sacrificial barrier to prevent electrolysis and corrosion between dissimilar metals. This shall be in addition to any other barrier material that may be used.<br><br>All 1/4" diameter and smaller screws and bolts shall be stainless steel.<br><br>***Due to the expected life of the vehicle, proposals will only be acceptable from manufacturers that include these corrosion features. *** | | | |

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| One (1)<br>**COMPARTMENT FLOORS**<br><br>The compartment floors shall be constructed of smooth aluminum material, to match the compartment interior walls.<br><br>One (1)<br>**ALUMINUM SUB-FRAME**<br><br>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.<br><br>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.<br><br>For added strength and rigidity, no less than six (6) intermediate body crossmembers shall be provided constructed extruded aluminum tubes.<br><br>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.<br><br>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.<br><br>The tubular extrusion shall consist of 1-3/4" x 3" rectangular tubes of both 1/8" and 3/16" | | | |

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| wall thickness and 3" x 3" square aluminum tubing of both 1/8" and 3/16" wall thickness.<br><br>One (1)<br>**SINGLE AXLE WHEEL AREA**<br><br>For ease of accessibility and maintenance, wheel well panels shall be double break formed painted smooth plate that is welded in place.<br><br>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.<br><br>One (1)<br>**FENDERETTES**<br><br>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.<br><br>One (1)<br>**BODY DIMENSIONS**<br><br>The aluminum rescue body shall be twenty-foot (20') long.<br><br>One (1)<br>**BODY DIMENSIONS**<br><br>The aluminum rescue body shall be 101" wide.<br><br>Eight (8)<br>**ROLL UP DOOR CONSTRUCTION**<br><br>The door slats shall be double-wall extrusions with dimensions of 1.366" high x .315" thick. The exterior surface shall be flat and the interior surface concave to deflect loose equipment to prevent the door from jamming. | | | |

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| Each slat shall have interlocking end shoes to prevent the slat from moving side to side resulting in binding of the door. Each slat shall be separated by a co-extruded PVC and rubber inner seal to prevent metal to metal contact and minimize dirt and moisture from entering the compartment. The inner seal shall not be visible from the exterior to maintain a clean appearance of door. The slats shall have interlocking joints with a folding locking flange to provide security and prevent penetration by sharp objects.<br><br>The track shall be a one (1) piece aluminum assembly that has an attaching flange and finishing flange incorporated into the design that facilitates installation and provides a finished look to the door without additional trim or caulking. A low-profile side seal shall be utilized to maximize usable compartment space.<br><br>A drip rail designed to prevent water from dripping into the compartment shall be provided. The drip rail shall have a built in replaceable non-contacting seal to eliminate scratching of the surface of the door.<br><br>Bottom rail extrusion must have smooth back to prevent loose equipment from jamming the door and have "V" shaped double seal to prevent water and debris from entering the compartment. The door latch system shall be a full width one (1) piece lift bar that enables the user to operate with one hand.<br><br>The roll mechanism shall have a clip system that connects the curtain slats to the operator drum to allow for easy tension adjustment without tools. A four (4) inch diameter counterbalanced operator drum to shall be incorporated to assist in lifting the door.<br><br>All rollup doors with the exception of the interior cab rear compartment, shall be equipped with magnetic alarm system | | | |

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| connected to the door open alarm in the cab.<br><br>Eight (8)<br>**EZ-PULL DOWN STRAPS**<br><br>Eight (8) 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.<br><br>One (1)<br>**COMPARTMENT HEIGHT**<br><br>The body side compartments shall be 72" high.<br><br>One (1)<br>**LEFT FRONT COMPARTMENT (L1)**<br><br>There shall be one (1) full height transverse compartment located at the front of the apparatus body. The compartment shall be equipped with a full height natural finish roll up door.<br><br>The compartment shall be equipped with the following:<br><br>One (1)<br>louver with filter shall be installed in the compartment.<br><br>One (1)<br>ROLLOUT TRAY<br><br>One (1) SlideMaster AM3 Series mid profile telescoping equipment tray(s) shall be | | | |

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| installed that is(are) approximately half the depth of the body width. The tray assembly shall have an aluminum 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.<br><br>*** Mount on bottom of compartment, above truck frame***<br><br>One (1)<br>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.<br><br>One (1)<br>The shelf/tray shall be fitted with removable vinyl Turtle Tile matting. The matting shall be interlocking modules approximately 12" square by 1/2" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.<br><br>One (1)<br>**REFLECTIVE STRIPE**<br><br>The outer edge and both sides of the shelf/slide-out tray/tool board shall have alternating red and white reflective DOT striping applied for safety.<br><br>One (1)<br>COMPARTMENT DIVIDER<br><br>One (1) compartment divider constructed from 3/16" smooth aluminum material shall be installed.<br><br>*** Mount in the center of roll out tray. Back of this divider to be divided in 6 compartments with access at the rear. | | | |

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| Divider to be as tall as possible. Include equipment retainment netting. On the front side of divider (forward facing) to have open storage. Discuss with fire department for further design questions. ***<br><br>One (1)<br>The floor area of the compartment shall be fitted with removable vinyl Turtle Tile 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.<br><br>One (1)<br>COMPARTMENT LIGHTS<br><br>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.<br><br>The lights shall have a polycarbonate lens to eliminate breakage from impact and eliminate heat buildup.<br><br>One (1)<br>**LEFT FRONT COMPARTMENT (L2)**<br><br>There shall be one (1) full height transverse compartment located ahead of the rear axle. The compartment shall be equipped with a full height natural finish roll up door.<br><br>The compartment shall be equipped with the following:<br><br>One (1)<br>louver with filter shall be installed in the compartment.<br><br>One (1)<br>ADJUSTABLE SHELVING TRACKS | | | |

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| The compartments shall be equipped with four (4) aluminum adjustable tracks, vertically mounted, that are bolted in place for adjustable shelving and equipment mounting.<br><br>*** for mounting of tip down tray***<br><br>One (1)<br>ROLLOUT TRAY<br><br>One (1) SlideMaster AM3 Series mid profile telescoping equipment tray(s) shall be installed that are approximately half the depth of the body width. The tray assembly shall have an aluminum 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.<br><br>*** Mount on bottom of compartment, above truck frame***<br><br>One (1)<br>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.<br><br>Two (2)<br>The shelf/tray shall be fitted with removable vinyl Turtle Tile matting. The matting shall be interlocking modules approximately 12" square by 1/2" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.<br><br>Two (2)<br>**REFLECTIVE STRIPE**<br><br>The outer edge and both sides of the shelf/slide-out tray/tool board shall have | | | |

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| alternating red and white reflective DOT striping applied for safety.<br><br>One (1)<br>TIP-DOWN TRAY<br><br>One (1) SlideMaster MT Series tip-down equipment tray(s) shall be installed that are approximately half the depth of the body width. The tray assembly shall have an aluminum slide frame with sealed roller bearings rated to 200 pounds. A tray constructed of .190" smooth aluminum plate with four 4" sides shall be mounted to the slide frame. The slide frame shall extend out of the compartment while tipping downward to approximately 30 degrees when fully extended. An integrated manual quarter turn lock shall hold tray in the "in" position. Gravity shall hold the tray in the "out" position. The slide shall have a 2-5/8" deck height.<br><br>One (1)<br>**REFLECTIVE STRIPE**<br><br>The outer edge and both sides of the shelf/slide-out tray/tool board shall have alternating red and white reflective DOT striping applied for safety.<br><br>One (1)<br>COMPARTMENT DIVIDER<br><br>One (1) compartment divider constructed from 3/16" smooth aluminum material shall be installed. The divider shall be bolted in for ease of removal.<br><br>*** Bolt on roll out tray, should be approx. 2' high.<br>*** Pac Tool Mounting solutions.<br><br>One (1)<br>The floor area of the compartment shall be fitted with removable vinyl Turtle Tile matting. The matting shall be interlocking modules approximately 12" square by 9/16" | | | |

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| thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.<br><br>Two (2)<br>**SCBA MOUNTING BRACKET**<br><br>Two (2) Zico 45-minute MSA G1 SCBA air pack mounting with spring tension bracket included.<br><br>*** Mount on front side of divider. ***<br><br>One (1)<br>COMPARTMENT LIGHTS<br><br>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.<br><br>The lights shall have a polycarbonate lens to eliminate breakage from impact and eliminate heat buildup.<br><br>One (1)<br>The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.<br><br>One (1)<br>**LEFT OVERWHEEL COMPARTMENT (L3)**<br><br>There shall be one (1) compartment above the rear wheels. The compartment shall be equipped with a single natural finish roll up door.<br><br>One (1)<br>**COMPARTMENT DEPTH**<br><br>The compartment shall be 3/4 body depth | | | |

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| The compartment shall be equipped with the following items:<br><br>One (1)<br>One (1) louver with filter shall be installed in the compartment.<br><br>Three (3)<br>ROLLOUT TRAY<br><br>Three (3) SlideMaster AM3 Series mid profile telescoping equipment tray(s) shall be installed that are approximately 3/4 depth of the body width. The tray assembly shall have an aluminum 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.<br><br>*** divide compartment width into 3 equal sized trays***<br>*** Pac Tool Mounting solutions.<br><br>Three (3)<br>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.<br><br>Three (3)<br>The shelf/tray shall be fitted with removable vinyl Turtle Tile matting. The matting shall be interlocking modules approximately 12" square by 1/2" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.<br><br>Three (3)<br>**REFLECTIVE STRIPE**<br><br>The outer edge and both sides of the shelf/slide-out tray/tool board shall have | | | |

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| alternating red and white reflective DOT striping applied for safety.<br><br>Three (3)<br>COMPARTMENT DIVIDER<br><br>Three (3) vertically mounted compartment dividers constructed from 3/16" smooth aluminum material shall be installed. The divider shall be bolted in for ease of removal.<br><br>*** one on each divider on tray to be equipped with Pac Tool Mounting solutions. ***<br><br>One (1)<br>COMPARTMENT LIGHTS<br><br>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.<br><br>The lights shall have a polycarbonate lens to eliminate breakage from impact and eliminate heat buildup.<br><br>One (1)<br>The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.<br><br>One (1)<br>**LEFT REAR COMPARTMENT (L4)**<br><br>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.<br><br>One (1)<br>**COMPARTMENT DEPTH**<br><br>The compartment shall be approx. 30” deep. | | | |

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| The compartment shall be equipped with the following items:<br><br>One (1)<br>One (1) louver with filter shall be installed in the compartment.<br><br>One (1)<br>ADJUSTABLE SHELVING TRACKS<br><br>The compartments shall be equipped with four (4) aluminum adjustable tracks, vertically mounted, that are bolted in place for adjustable shelving and equipment mounting.<br><br>Three (3)<br>ADJUSTABLE SHELF<br><br>Three (3) adjustable shelves 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.<br><br>*** Shelf to be width of compartment. ***<br><br>Three (3)<br>The shelf/tray shall be fitted with removable vinyl Turtle Tile matting. The matting shall be interlocking modules approximately 12" square by 1/2" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.<br><br>One (1)<br>COMPARTMENT LIGHTS<br><br>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 | | | |

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| into the roll-up door tracks with the light actuation with the door opening.<br><br>The lights shall have a polycarbonate lens to eliminate breakage from impact and eliminate heat buildup.<br><br>One (1)<br>The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.<br><br>One (1)<br>**RIGHT FRONT COMPARTMENT (R1)**<br><br>There shall be one (1) full height transverse compartment located at the front of the apparatus body. The compartment shall be equipped with a full height natural finish roll up door.<br><br>The compartment shall be equipped with the following:<br><br>One (1)<br>**COMPARTMENT HEATER SYSTEM**<br><br>Both the R1 & R2 compartment shall be equipped with a minimum of 30,000 BTU hot water heater system. The unit shall be piped to the chassis radiator system with standard heater hose. The hose shall be properly clamped and secured in place, and be properly protected from engine exhaust or mechanical damage. Heater should be mounted in-between R1 & R2 to heat both compartments.<br><br>The heater unit shall be equipped with a 12-volt blower fan with control located on the chassis console with on/off controls mounted in cab.<br><br>One (1)<br>One (1) louver with filter shall be installed in the compartment. | | | |

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| Two (2)<br>ROLLOUT TRAY<br><br>Two (2) SlideMaster AM3 Series mid profile telescoping equipment tray(s) shall be installed that are approximately half the depth of the body width. The tray assembly shall have an aluminum 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.<br><br>*** divide compartment width into tow equal sized trays. ***<br>*** Pac Tool Mounting solutions for one divider.<br>*** Custom made mounting solution for fire department supplied battery powered extrication tools on the other tray/divider. Other side of divider to include custom mounting solutions safety chains and other extrication tool accessories ***<br><br>Two (2)<br>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.<br><br>Two (2)<br>The shelf/tray shall be fitted with removable vinyl Turtle Tile matting. The matting shall be interlocking modules approximately 12" square by 1/2" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.<br><br>Two (2)<br>**REFLECTIVE STRIPE**<br><br>The outer edge and both sides of the shelf/slide-out tray/tool board shall have | | | |

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| alternating red and white reflective DOT striping applied for safety.<br><br>Two (2)<br>COMPARTMENT DIVIDER<br><br>Two (2) compartment dividers constructed from 3/16" smooth aluminum material shall be installed. The divider shall be bolted in for ease of removal.<br><br>One (1)<br>COMPARTMENT LIGHTS<br><br>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.<br><br>The lights shall have a polycarbonate lens to eliminate breakage from impact and eliminate heat buildup.<br><br>One (1)<br>The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.<br><br>One (1)<br>**RIGHT FRONT COMPARTMENT (R2)**<br><br>There shall be one (1) full height transverse compartment located ahead of the rear wheels. The compartment shall be equipped with a full height natural finish roll up door.<br><br>The compartment shall be equipped with the following:<br><br>One (1)<br>One (1) louver with filter shall be installed in the compartment.<br><br>One (1)<br>ADJUSTABLE SHELVING TRACKS | | | |

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| The compartments shall be equipped with four (4) aluminum adjustable tracks, vertically mounted, that are bolted in place for adjustable shelving and equipment mounting.<br><br>*** for height adjustment of tip down tray. ***<br><br>One (1)<br>ROLLOUT TRAY<br><br>One (1) SlideMaster AM3-MP Series mid profile telescoping equipment tray(s) shall be installed in a standard depth compartment. The tray assembly shall have an aluminum 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.<br><br>*** Mount in lower portion of compartment. ***<br><br>One (1)<br>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.<br><br>One (1)<br>The shelf/tray shall be fitted with removable vinyl Turtle Tile matting. The matting shall be interlocking modules approximately 12" square by 1/2" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.<br><br>One (1)<br>**REFLECTIVE STRIPE**<br>The outer edge and both sides of the shelf/slide-out tray/tool board shall have | | | |

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| alternating red and white reflective DOT striping applied for safety.<br><br>One (1)<br>600# ROLLOUT TRAY<br><br>One (1) SlideMaster AM3 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 an aluminum 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.<br><br>*** Mount above truck frame rails. ***<br><br>One (1)<br>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.<br><br>Two (2)<br>The shelf/tray shall be fitted with removable vinyl Turtle Tile matting. The matting shall be interlocking modules approximately 12" square by 1/2" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.<br><br>Two (2)<br>**REFLECTIVE STRIPE**<br><br>The outer edge and both sides of the shelf/slide-out tray/tool board shall have alternating red and white reflective DOT striping applied for safety.<br><br>One (1)<br>TIP-DOWN TRAY | | | |

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| One (1) SlideMaster MT Series tip-down equipment tray(s) shall be installed that are approximately half the depth of the body width. The tray assembly shall have an aluminum slide frame with sealed roller bearings rated to 200 pounds. A tray constructed of .190" smooth aluminum plate with four 4" sides shall be mounted to the slide frame. The slide frame shall extend out of the compartment while tipping downward to approximately 30 degrees when fully extended. An integrated manual quarter turn lock shall hold tray in the "in" position. Gravity shall hold the tray in the "out" position. The slide shall have a 2-5/8" deck height.<br><br>One (1)<br>**REFLECTIVE STRIPE**<br><br>The outer edge and both sides of the shelf/slide-out tray/tool board shall have alternating red and white reflective DOT striping applied for safety.<br><br>One (1)<br>COMPARTMENT DIVIDER<br><br>One (1) compartment divider constructed from 3/16" smooth aluminum material shall be installed. The divider shall be bolted in for ease of removal.<br><br>*** bolt on roll out tray, approx. 12" high. ***<br>*** one side to include adjustable shelving, other side to be open space for storage***<br><br>One (1)<br>The floor area of the compartment shall be fitted with removable vinyl Turtle Tile 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. | | | |

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| Two (2)<br>COMPARTMENT LIGHTS<br><br>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.<br><br>The lights shall have a polycarbonate lens to eliminate breakage from impact and eliminate heat buildup.<br><br>Two (2)<br>The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.<br><br>One (1)<br>**RIGHT OVERWHEEL COMPARTMENT (R3)**<br><br>There shall be one (1) compartment above the rear wheels. The compartment shall be equipped with a single natural finish roll up door.<br><br>One (1)<br>**COMPARTMENT DEPTH**<br><br>The compartment shall be approx. 1/4 depth<br><br>The compartment shall be equipped with the following items:<br><br>One (1)<br>One (1) louver with filter shall be installed in the compartment.<br><br>Five (5)<br>AIR BAG STORAGE MODULE<br><br>Five (5) vertical compartment module constructed of .188" aluminum shall be provided for the storage of one (1) fire department supplied air bag. Work with | | | |

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| department closer to completion for air bag sizes which will be purchased at a later date.<br><br>*** build on rear side of compartment. ***<br><br>One (1)<br>COMPARTMENT LIGHTS<br><br>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.<br><br>The lights shall have a polycarbonate lens to eliminate breakage from impact and eliminate heat buildup.<br><br>One (1)<br>The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.<br><br>One (1)<br>**RIGHT REAR COMPARTMENT (R4)**<br><br>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.<br><br>*** Build extra support under compartment floor for dealer installation of SCBA fill station and cascade system. ***<br><br>One (1)<br>**COMPARTMENT DEPTH**<br><br>The compartment shall be approx. 30" deep.<br><br>The compartment shall be equipped with the following items:<br><br>One (1)<br>One (1) louver with filter shall be installed in the compartment. | | | |

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| One (1)<br>SCBA CYLINDER STORAGE<br><br>One (1) formed aluminum storage unit with individual compartments shall be provided to store eight (8) fire department-supplied air cylinders. Unit to be horizontally or vertically installed and coated with (black) thermoplastic material for durability and to provide scuff protection to the air cylinders. A black nylon containment net shall be installed to secure the bottles in the bottle rack. The net shall be securely fastened on one end, with the other end being equipped with snaps, for access to the bottles.<br><br>*** Mount upper portion of compartment. ***<br><br>One (1) DOT 4-cylinder 4500 psi cascade system,<br><br>One (1) 4500 psi 2-cylinder fill station.<br><br>One (1)<br>COMPARTMENT LIGHTS<br>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.<br><br>The lights shall have a polycarbonate lens to eliminate breakage from impact and eliminate heat buildup.<br><br>One (1)<br>The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.<br><br>Five (5)<br>COMPARTMENT LIGHT<br><br>Five (5) 8" long OnScene Solutions Access LED light shall be installed above the door opening and contain six LEDs per light | | | |

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| producing approximately 30 lumens. The light stick shall be rated at 100,000 hours of service and shall be provided with a 5-year free replacement warranty. The light shall have a 5/8" LEXAN™ polycarbonate tube enclosure for severe duty applications. The light stick shall be waterproof and be connectible via a jumper wire to add additional lights in series if required.<br><br>*** Mount in step compartments. ***<br><br>Five (5)<br>The compartment light will be controlled by a magnetic "On-Off" switch located on each compartment door.<br><br>One (1)<br>**REAR CENTER STAIRWAY**<br><br>A stairway shall be provided at the rear face of the body in place of the rear center compartment. The rear center stairway shall provide access the roof compartments and/or the roof area. The stairway area shall be properly lighted. The stair treads shall be fabricated from NFPA approved non-slip tread plate, and overlayed with Diamond Grip for added no-slip traction.<br><br>Three compartments approximately 36" wide x 8" high. The lower compartment shall be approximately 30" deep. The middle compartment shall be approximately 20" deep. The upper compartment shall be approximately 10" deep. Each compartment shall be equipped with a polished tread plate door with single point latch mechanism and D-ring handle.<br><br>*** upper walkway width is to match the stairway - adjust coffin bins as needed. *** | | | |

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| One (1)<br>**REAR STEP - 12” BOLT-ON**<br><br>A 12" 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 .188" aluminum diamond plate or equal non-slip surface in compliance with NFPA 1901 standards.<br><br>A label shall be provided warning personnel that riding on the rear step while the apparatus is in motion is prohibited.<br><br>One (1)<br>**FOLD DOWN REAR STEP**<br><br>A stairway width, fold down rear step shall be furnished on the rear of the apparatus. The fold down step shall have a specially designed off set, eccentric type bracket and be attached with stainless steel fasteners on each side. The step shall not protrude past the rear tailboard when in the upper stowed position. In the down position, the step shall reduce the height of the first step approximately 12". The step surface shall be fabricated with NFPA approved slip resistant material.<br><br>One (1)<br>**HANDRAIL REAR STEP**<br><br>The stairway area shall be properly lighted using two 60" illuminated handrails, one each side. The light strips in the handrails shall activate with activation of the park brake. Each handrail shall be constructed of aluminum with knurled grips.<br><br>*** Mounted each side of stairway. *** | | | |

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| One (1)<br>**FRONT BODY PROTECTION PANELS**<br><br>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.<br><br>One (1)<br>**CATWALKS**<br><br>Aluminum tread plate catwalks shall be installed on the top of the compartments.<br><br>One (1)<br>**REAR BODY PROTECTION PANELS**<br><br>The rear body panels of the body shall be a smooth material, to allow for the proper application and installation of a "Chevron" stripe on the rear.<br><br>One (1)<br>**SURFACE MOUNT AWNING**<br><br>One (1) side body awning shall be up to 16 feet long x 10 feet wide and shall be surface mounted on the right side of the body. The awning shall be attached at the front and rear corners of the apparatus on the outer door supports.<br><br>*** Mount on top of right coffin compartment as far to the rear of truck as possible. Awning to be installed on top of the coffin boxes but mounted as close to the upper edge as possible, coffin box openings might need to be slightly adjusted to accommodate. ***<br><br>*** Mount on passenger side of the apparatus. *** | | | |

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| One (1)<br>**CANOPY AWNING - 12V ELECTRIC**<br><br>One (1) side body 12V electric awning shall be 16 feet long x 10 feet wide and shall be installed on the top of the body. The awning support arms shall be attached at the front and rear bottom corners of the apparatus on the outer door supports.<br><br>The canopy shall be made from white acrylic fabric that resists rotting, cracking, peeling and mildew. The awning shall have spring design and system, and shall be easily extended and retracted.<br><br>The wraparound slatted metal awning enclosure protects the awning in transit and automatically opens or closes with the awning. The enclosed design shall minimize dirt and grime from entering through exposed arms. Stainless steel nuts, washers, screws and other hardware shall be utilized in installation.<br><br>*** Controller for awning to be mounted in R4***<br>*** 16' awning. ***<br><br>One (1)<br>**EXTRUDED ALUMINUM RUB RAILS**<br><br>Full body length polished 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.<br><br>One (1)<br>**NYLON SPACERS FOR RUB RAILS**<br><br>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. | | | |

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| Two (2)<br>**UPPER BODY DRIVER SIDE COMPARTMENT**<br><br>Two (2) upper body compartment shall be provided top of body with dimensions of approximately 90" and over 21" deep.<br><br>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.<br><br>The compartment shall be located on the left side of the body.<br><br>*** Must provide drains to be channeled through the body, include rubber drain cap covers. ***<br><br>Two (2)<br>**COMPARTMENT EXTERIOR FINISH**<br><br>The roof compartments shall be constructed from smooth aluminum painted to match the apparatus body.<br><br>Two (2)<br>The floor areas of the up to 30" long roof compartments shall be fitted with removable vinyl Turtle Tile 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.<br><br>Two (2)<br>COMPARTMENT LIGHT | | | |

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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.<br><br>Two (2)<br>The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.<br><br>Two (2)<br>**<u>UPPER BODY OFFICER SIDE COMPARTMENT</u>**<br><br>Two (2) upper body compartment shall be provided top of body with dimensions of approximately 90" and over 21" deep.<br><br>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.<br><br>The compartment shall be located on the right side of the body.<br><br>*** Please provide drains. Lift-up doors will need to be adjusted to accommodate the awning on the top. *<br><br>Two (2)<br>**<u>COMPARTMENT EXTERIOR FINISH</u>**<br>The roof compartments shall be constructed from smooth aluminum painted to match the apparatus body.<br><br>Two (2)<br>The floor areas of the up to 30" long roof compartments shall be fitted with removable vinyl Turtle Tile matting. The matting shall be interlocking modules approximately 12" square by 9/16" thick. This material shall be | | | |

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| resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.<br><br>Two (2)<br>COMPARTMENT LIGHT<br><br>Two (2) LED light fixture shall be installed on the wall of the compartment. The light shall have a clear lens.<br><br>Two (2)<br>The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.<br><br>One (1)<br>**OPEN TOP UPPER BODY COMPARTMENT**<br><br>An open top upper body compartment shall be provided. The compartment shall be greater than 21" deep, 48" front to rear and 92" right to left.<br><br>The compartment shall be located at the front of the body and be lined with aluminum tread plate. Floor drains, routed to the exterior of the body shall be installed.<br><br>*** adjust width to fit light tower and side coffin bins<br><br>One (1)<br>**COMPARTMENT EXTERIOR FINISH**<br><br>The roof compartments shall be constructed from smooth aluminum painted to match the apparatus body.<br><br>One (1)<br>**CHASSIS CAB SHORELINE RECEPTACLES**<br><br>Receptacles shall be wired to the shoreline for the charging of portables. Final location to be determined at pre-construction conference. | | | |

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| One (1)<br>**120V ELECTRIC RECEPTACLE -- STRAIGHT BLADE**<br><br>One (1) 120-volt 20-amp straight blade, 3-prong duplex receptacle with spring loaded weatherproof cover shall be provided.<br><br>*** locate in cabinet between rear seats. ***<br><br>One (1)<br>**SHORELINE RECEPTACLES**<br><br>The following receptacles shall be wired to the shoreline power.<br><br>One (1)<br>**120V ELECTRIC RECEPTACLE -- TWIST LOCK**<br>One (1) 120-volt 20-amp twist lock (NEMA L5-20) receptacle with spring loaded weatherproof cover shall be provided.<br><br>*** Locate in R 1 Compartment. ***<br>One (1)<br>**LIGHT TOWER**<br><br>A light tower shall be installed on top of the body.<br><br>One (1)<br>**MOUNTING – LIGHT TOWER CONTROLS**<br><br>The controls for the light tower shall be mounted in the right front compartment (R1).<br><br>One (1)<br>**CL602D-FX LIGHT TOWER**<br>A Command Light, manufactured by Command Light, part number CL602D-FS, light tower shall be provided for installation on the apparatus. The location of the light tower and its controls shall be installed according to instructions given by the | | | |

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| customer and the requirements of the light tower manufacturer.<br><br>The light tower shall extend 131" above the mounting surface and shall extend to full upright position in less than 15 seconds. The overall size of nested light tower shall be approximately 43" wide x 74" long x 12" high and weigh approximately 300 pounds.<br><br>**Light Tower Construction and Design**<br>The light tower assembly shall be of aluminum construction, with stainless steel shafts and bronze bushings for long life and low maintenance.<br><br>The electrically controlled unit shall not require usage of the vehicle's air supply for operation, thereby eliminating the chance for air leaks in the vehicle braking system. Hydraulic or pneumatic type floodlights are not acceptable alternatives to the specified all electric light tower.<br><br>The light tower shall be tested in wind conditions of 90 mph (150 kph) minimum. Other type floodlights that have not been tested to these conditions are not acceptable.<br><br>The light tower shall be capable of overhanging the side or back of the vehicle to provide maximum illumination to the vicinity adjacent to the vehicle for the safety of emergency personnel in high traffic conditions. Any tower that is only capable of rotations at the top of a pole is not an acceptable alternative to the specified tower. | | | |

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| **Light Tower Electrical System**<br>The light tower shall be a two-stage articulating device with a lighting bank on top of the second stage capable of continuous 360-degree rotation. The light shall be elevated by electric linear actuators, one (1) actuator shall elevate the light bank and one (1) actuator shall adjust the light bank angle from 0 to 110 degrees. Power for the light bank shall be supplied through power collecting rings thus allowing continuous 360-degree rotation in either direction.<br><br>The tower base shall have a light that illuminates the envelope of motion during any movement of the light tower mast as required by NFPA1901.<br><br>**Light Tower Controls**<br>The light tower shall be controlled with a hand-held 15-foot umbilical line remote control. The storage station for the remote-control unit shall be equipped with a button to activate the "Auto-Park" automatic nesting feature. The controls on the remote box shall be:<br>Two (2) buttons, one (1) for each light bank.<br>One (1) button for optional light bank rotation.<br>One (1) button for the optional strobe.<br>One (1) button for lamp tree rotation.<br>One (1) button for elevating lower stage.<br>One (1) button for elevating upper stage.<br>One (1) indicator light to indicate when light is out of roof nest position.<br>One (1) indicator light to indicate when light is rotated to proper nest position. | | | |

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| **Light Tower Floodlights**<br>The Command Light shall be equipped with the following bank of floodlights:<br><br>Floodlight manufacturer: Fire Research Corporation<br>Number of lamp heads: Four (4)<br>Spectra SPC105-Q20-BOB<br>Voltage: 12 VDC<br>Watts of each lamp head: 230 watts<br>Total watts of light tower: 1,220 watts<br>Amperage per lamp head: 18.4 amps<br>Total amperage of light tower: 100 amps<br>Total Lumens of light tower: 112,000 lumens<br><br>Configuration: The light heads shall be mounted in two (2) on each side of the light tower, giving two (2) vertical lines of two (2) when the lights are in the upright position.<br><br>One (1)<br>**WINCH RECEIVER - FRONT**<br><br>The front of the chassis shall be equipped with a receiver assembly for high or low angle rescue or winch applications. The receiver shall be a square steel tube, same size as that of a trailer hitch. The unit shall be attached to the chassis frame assembly.<br><br>*** Rated for 9000lb winch. ***<br><br>One (1)<br>One (1) 12 volt Warn quick disconnect electrical receptacle, shall be installed in the body for the portable winch. The power cables shall be color coded "red" positive | | | |

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| and "black" neutral and rated at 125% of winch power requirement (including line drop).<br><br>One (1)<br>**WINCH RECEIVER - REAR**<br><br>The rear of the apparatus body shall be equipped with a receiver assembly for high or low angle rescue or winch applications. The receiver shall be a square steel tube, same size as that of a trailer hitch. The unit shall be attached to the body sub-frame assembly.<br><br>One (1)<br>One (1) 12 volt Warn quick disconnect electrical receptacle, shall be installed in the body for the portable winch. The power cables shall be color coded "red" positive and "black" neutral and rated at 125% of winch power requirement (including line drop).<br><br>*** Rated for 9000lb winch. ***<br><br>One (1)<br>NO 12V Trailer Hitch Power Plug<br><br>One (1)<br>**WINCH RECEIVERS - SIDE BODY**<br><br>The body shall be equipped with one (1) receiver assembly for high or low angle rescue or winch applications. The receiver shall be a square steel tube, same size as that of a trailer hitch. The unit shall be attached to the body sub-frame assembly or chassis frame rails and shall be located behind the rear wheels.<br><br>*** Right rear side of body. ***<br>*** Rated for 9000lb winch. ***<br><br>One (1)<br>One (1) 12 volt Warn quick disconnect electrical receptacle, shall be installed in the body for the portable winch. The power | | | |

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| cables shall be color coded "red" positive and "black" neutral and rated at 125% of winch power requirement (including line drop).<br><br>Two (2)<br>**ROPE TIE OFF**<br><br>One (1) slide in receiver unit shall be provided with the apparatus and shall be same size as a trailer hitch receiver. The unit shall be equipped with a drop forged eye unit with a 2.5" inside diameter.<br><br>*** To be mounted high on the rear of the body, one on the left & one on the right side. ***<br><br>One (1)<br>**TWO TONE BODY and CAB PAINT**<br><br>One (1) Upper portion of both the cab and the body to be black.<br><br>One (1) Bottom portion of both the cab and the body to be red.<br><br>*Double gold pin striping to be applied to all sections where the color Black meets Red with the two-tone paint scheme. *<br><br>*** All compartment roll-up doors to be brushed aluminum (no color). ***<br><br>One (1)<br>**INTERIOR COMPARTMENT FINISH**<br><br>Eight (8) apparatus side compartment interiors are to be painted with a spatter finish material. The compartments shall be cleaned with a grease remover, and then the surface sanded and prepared for painting. The compartment shall be provided with two (2) coats of white epoxy. The compartments are then coated with a splatter paint top coat. | | | |

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| Two (2)<br>**TOUCH-UP PAINT**<br><br>One (1) two (2) ounce bottle of touch-up paint for both colors shall be furnished with the completed truck at final delivery.<br><br>One (1)<br>**BLACKED OUT ITEMS - LINE-X / PAINT**<br>The following items shall be either blacked out with Line-X or flat black paint.<br><br>One (1)<br>**UNDERCOATING**<br><br>The entire underside of the single axle apparatus body is to be cleaned and properly prepared for application of a sprayed on automotive type undercoating for added corrosion resistance. Undercoating is to be a solvent based, rubberized coating, black in color.<br><br>One (1)<br>**LETTERING**<br><br>The dealer shall supply the apparatus lettering.<br><br>***Work with fire department closer to completion for the decal arrangements and slogans. ***<br><br>Two (2)<br>**SIMULATED GOLD LEAF LETTERING**<br><br>The lettering shall be applied in simulated gold leaf material, shaded in black and encapsulated in clear Mylar. The following to be in simulated gold leaf lettering.<br><br>**"Proudly Serving Lac La Ronge Region" x2**<br><br>**"Welcome" x2 –** to be written in cree (Design | | | |

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| to be provided by the fire department) and placed under slogan<br><br>**"Rescue 1" x2 –** Placed on each side of the rear cab doors<br><br>To be placed on the cab and on the body as directed by fire department. The letters shall be between eight and twelve inches in height.<br><br>Fire Department Maltese cross (x2) shall be placed on front driver and officer door and be white in color.<br><br>A preliminary decal arrangement should be provided to showcase the potential design of the apparatus.<br><br>One (1)<br>**CAB AND BODY STRIPE**<br><br>A straight Scotch lite reflective stripe, 4" minimum in width, shall be applied horizontally around the cab and body in compliance with applicable NFPA 1901 standards. The department shall specify the color and location of the stripe.<br><br>One (1)<br>**CHEVRON STRIPING**<br><br>The entire rear portion of the body shall have Oralite V98 reflective red and yellow striping installed. The chevron style striping shall be applied at a 45-degree upward angle pointing towards the center upper portion of the rear panel.<br><br>One (1)<br>**YELLOW SAFETY TAPE - STANDING & WALKING SURFACES**<br><br>The apparatus shall be NFPA standard 15.7.1.6 designating any horizontal standing or walking surface higher than 48-in (1220 mm) from the ground and not guarded by | | | |

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| railing or structure at least 12-in (300 mm) high shall have at least a 1-in (25 mm) wide safety yellow line delineation that contrasts with the background to mark the outside perimeter of the designated standing or walking surface area, excluding steps and ladders.<br><br>One (1)<br>**WHEEL CHOCKS WITH MOUNTS**<br><br>A pair of safety yellow Worden Model HWGY large aluminum wheel chocks shall be provided and mounted under the apparatus body with Model U815T underbody mounting brackets.<br><br>One (1)<br>**ALTERNATOR**<br><br>All accessories including but not limited to the Light Tower, shall be fully operable without the need of a portable generator or PTO driven generator. Alternator in the apparatus shall be large enough to power ALL of the truck mounted accessories and still have reserve capacity for additional smaller items such as radio bank chargers, 110 outlets, additional battery charger banks etc.<br><br>One (1)<br>**FRONT CAB CENTER CONSOLE**<br>To include space for one (1) provincial p-25 truck mounted radio, one (1) local Motorola local VHF truck mounted radio, one (1) ICOM airband radio for airport. 3 mic clips shall also be provided and attached to the center console in a way that easily accessed by both the driver and officer.<br><br>One (1) 4-radio charging station mounted to the rear the rear of the center console that is charged by the shoreline connection. Console should be designed in a way that provides a secure spot for the charging station. | | | |

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| *** Fire department to supply radios and charging station and to be installed prior to delivery. ***<br><br>One (1)<br>**HIGHWAY TEST FINAL PRODUCT**<br><br>HIGHWAY PERFORMANCE The apparatus, when loaded to its estimated in-service weight, shall be capable of the following performance while on dry, paved roads that are in good condition: 1) Accelerating from 0 to 35 mph (55 km/hr) within 25 seconds on a 0 percent grade 2) Attaining a speed of 50 mph (80 km/hr) on a 0 percent grade 3) Maintaining a speed of at least 20 mph (32 km/hr) on any grade up to and including 6 percent The maximum top speed of fire apparatus with a GVWR over 26,000 lb (11,800 kg) shall not exceed either 68 mph (109 km/hr) or the manufacturer's maximum fire service speed rating for the tires installed on the apparatus, whichever is lower. | | | |

# La Ronge Regional Fire & Rescue Services

## Appendix B

### Request For Proposal

### RFP # LRRFD-2022-01

## RFP Bid Form

Town of La Ronge

## *RFP Bid Form*

**RFP # LRRFD-2022-01**

Date: **February 28th, 2022**
From: Keaton Cloud – Fire Chief

Town of La Ronge
La Ronge Regional Fire Rescue Services
1212 Hildebrand Drive
Box 5680
La Ronge, SK S0J 1L0, Canada
Phone: 306-425-3230
Fax: 306-425-3076
**Email:** firechief@laronge.ca

**Description:**
**(New) 2023 Heavy Rescue – 20' Walk Around**

RFPs will be received until **12:01pm (CST) March 31st, 2022. All unit prices shall be F.O.B. La Ronge, SK – Canada**

| Quantity | Description | Total Price |
|---|---|---|
| **1** | 2023 Heavy Rescue Unit – 20' Walk Around | $ _____ |
| **(STATE):** | Manufacturer: _____<br>Country of Manufacture: _____ | |
| | Chassis & Model: _____ | |
| **(STATE):** | Total in truck mounted accessories | $ _____ |

State Delivery _____days/years
(After Receipt of Order)

***NOTE: RFPs via Email, Fax or In-person will be accepted.***

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|---|---|
| Sub-Total | $ |
| GST (5%) | $ |
| PST (6%) | $ |
| TIRE TAX | $ |
| IMPORT FEE (If appl.) | $ |
| **Grand Total** | |

**Conditions of the RFP:**

- Delivery time (ARO) must be stated in the space provided.
- Any goods or services found to be defective or fail to meet the specifications herein, by reason of poor material or workmanship will be replaced at NO CHARGE.
- The Town reserves the right to accept or reject all or any part of this Tender.
- The RFP prices shall be open and irrevocable for Thirty (30) calendar days from the RFP closing time and date.
- Unit prices must be extended and totaled accordingly.
- All pricing provided to be quoted in **Canadian Funds** inclusive of all applicable taxes, duties and fees at the time of closing, where applicable.
- Any RFP is not necessarily accepted.
- The Town reserves the right to give preference to the Bidder whose RFP includes any material, specifications or methods of execution that are deemed by the Town to be superior to those of the lowest bidder.
- Lowest bidder isn't necessarily awarded the RFP.

Full Name of Company **(please print)**

Address

City Province/state Postal Code/Zip

Name and Title **(please print)**

Signature of Authorized Officer Date: **(mm/dd/year)**

Phone Email