Stonewell Bodies

SPECIFICATIONS FOR

COMMAND ACCESS VEHICLE

CITY OF LEXINGTON
FIRE DEPARTMENT

Date 05/08/2025

Stonewell Bodies

Name: Lexington-Fayette Urban County Government Date 05/08/2025
Address: 200 East Main Street
City, State: Lexington, KY 40507

PROPOSAL
FOR FURNISHING

The undersigned is prepared to manufacture for you, upon an order being placed by you, for final acceptance by Stonewell Bodies and Machine Co. Inc, at its home office in Genoa, New York, the unit(s) herein named and for the following prices:

1. **Haz MAT CAV $79,308.00**

The specifications herein contained shall form a part of the final contract, and are subject to changes desired by the purchaser, provided such alterations are interlined prior to the acceptance by the Company of the order to purchase and provided such alterations do not materially affect the cost of the construction of the apparatus.
Unless accepted within 60 days, the right is reserved to withdraw this proposal.

Stonewell Bodies and Machine, Inc.

By: _Luigi Sposito_____
Luigi Sposito

Stonewell Bodies

STONEWELL COMPANY HISTORY

Stonewell Bodies was founded in 1994 out of necessity to work smarter and not harder. The company was started by a farrier looking to shoe his horses without the trouble of constantly loading and unloading a pickup truck with all his tools of the trade. After carefully considering how to make a truck body that would be light, provide protections from the elements, easy to organize and last for many years, the Stonewell Body was created.

Today, Stonewell has grown to service three primary industries, all of which require a light weight and efficient design. The primary industries serviced by Stonewell include Farriers and mobile veterinarians, emergency services vehicles and the building trades. The common thread among these three industries hinges on the need of efficient access to the truck body so they can access and depart the vehicle as quickly as possible.

Stonewell now employs 37 craftsmen who are experts in the field of fabrication as well as having significant application experience in the field of EMS and Farrier. Our team is comprised of farriers, EMT's, volunteer Fire Chiefs and assistant Chiefs. These craftspeople bring their passion and practical experience with them as they work to build outstanding truck bodies.

Coupled with experts in fabrication, Stonewell has made significant investments in productions capabilities. Our bodies and fabricated solutions are designed using the latest CAD, and modeling, software coupled to fully CNC processing equipment. Our metal cutting is primarily achieved through a new Mitsubishi Laser, HAAS milling machines or other very prices machine-tools. We have invested in our infrastructure as well as equipment and are confident we can design, weld and manufacture to the exacting specifications we develop.

Over the last several decades, Stonewell has evolved to be a market leader with a robust compliment of tools needed to solve customer problems. We continually work to solve application problems and stand behind the products that we produce. We look forward to the possibility of working with you and hope you consider Stonewell Bodies for your next design need.

TERMS OF PAYMENT - DIVIDED IN ONE THIRD INCREMENTS

The terms of this purchase shall be 1/3rd of the body purchase price upon signing of the purchase agreement and 1/3rd at the mid point of construction. The balance shall be paid upon completion of the specified vehicle. If payment is not made and Stonewell must pursue legal remedies, all legal expenses shall be the responsibility of the purchaser. The vehicle shall not be put in service until full payment is paid to the manufacturer.

Stonewell Bodies

Contract for Purchase, Stonewell CAV, with Agency

AGREEMENT OF SALE FOR COMMAND ACCESS VEHICLE

THIS AGREEMENT is made between **Stonewell Bodies and Machine Inc. (Stonewell)** and:

Legal Name of Buyer Lexington-Fayette Urban County Government
Address 200 East Main Street, Lexington, KY 40507
Phone Number (859) 280-8954

ACCEPTANCE:

Stonewell agrees to sell, and Buyer agrees to purchase Qty (1) Command Access Vehicle (s) described in the Specifications incorporated as Exhibit A of this contract, as may be amended in writing, and the equipment listed herein, all in accordance with the terms and conditions set forth herein.

This offer is valid for 30 days from_05/08/2025_____ and shall expire on __60/07/2025_____.

1. **DELIVERY SCHEDULE:**

The Command Access Vehicle shall be ready for transport in approximately 360 days after delivery of chassis to Stonewell. This time frame is subject to extension due to changes made by Buyer or in accordance with Sections 4 or 10,11,12 below.

2. **PRICE**:

Buyer shall pay Stonewell Bodies & Machine Inc. the purchase price for the installation of the Command Access Vehicle in the sum of **79,308.00** U.S. Dollars.

This purchase price **excludes** taxes. Responsibility to pay taxes are with the buyer.
Any applicable taxes not specifically noted above will be paid by the Buyer directly or will be added to the purchase price and paid by Buyer. If Buyer claims exemption from any tax, Buyer agrees to promptly furnish the applicable exemption certificate(s) and to indemnify and hold harmless Stonewell Bodies & Machine Inc. harmless from any such tax, interest or penalty, which may at any time be assessed against Stonewell Bodies & Machine Inc. as a result of this transaction.

3. **TERMS OF PAYMENT SHALL BE:**

Due upon signing: ..... **$ 26,436.00**

Due upon video conference inspection after "X"_____ days of build ..... **$ 26,436.00**

Due upon completion and video or in-person (at your cost) inspection prior to shipping.....$**26,436.00**

Applicable method of payment for remaining balance due: Check or wire transfer.

In the event of a dispute, Stonewell Bodies shall have the right to collect, from the purchaser, reasonable costs and necessary disbursements and attorney's fees incurred in enforcing this agreement. The vehicle shall not be put in service until full payment is paid to the manufacturer.

4. **CONTINGENCIES**:

Stonewell will not be liable for any delay, failure to make delivery, or other default due to strikes or labor unrest, war, riot, federal, state or local government action, fire, flood, or other disaster or acts of God, accidents, breakdown of machinery, lack of or inability to obtain materials, parts or supplies, or any other causes or circumstances beyond the reasonable control of these entities which prevent or hinder the manufacture and/or delivery of the Command Access Vehicle.

5. **WARRANTY**:

Stonewell provides a limited warranty on new Command Access Vehicle of its own manufacture in accordance with the warranty terms set forth in the Specifications provided. EXCEPT TO THE EXTENT PROHIBITED BY LAW, STONEWELL MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE FACE HEREOF. SEE SEPARATE WARRANTY STATEMENT(S) FOR COMPLETE INFORMATION. This warranty starts upon placing the vehicles in service not to exceed 6 months after delivery.

6. **DISCLAIMER OF CONSEQUENTIAL DAMAGES**:

Stonewell EXPRESSLY DISCLAIMS ANY LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES WHICH MAY BE SUSTAINED BY BUYER, INCLUDING BUT NOT LIMITED TO THOSE ARISING FROM

THE USE, INABILITY TO USE, MAINTENANCE OR REPAIR OF THE COMMAND ACCESS VEHICLE, WHETHER UNDER THEORIES OF BREACH OF EXPRESS OR IMPLIED WARRANTY, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE.

7. **CANCELLATION**:

This contract is not subject to cancellation by Buyer, unless for material breach by Stonewell Bodies, except upon payment to seller of reasonable cancellation charges, which shall take into account expenses already incurred and commitments made by seller and seller's anticipated profit.

8. **ENTIRE AGREEMENT; AMENDMENTS**:

This contract, including its appendices, embodies the entire understanding between the parties relating to the subject matter contained herein and merges all prior discussions and agreements between them. No agent or representative of Stonewell has authority to make any representations, statements, warranties or agreements not herein expressed. All modifications or amendments of this contract, including the appendices, and Change Orders, must be in writing signed by an authorized representative of each of the parties hereto.

9. **SEVERABILITY**:

If any provision hereof shall for any reason be held to be invalid, illegal or unenforceable in any respect, such invalidity, illegality or unenforceability shall not affect any other provision, and this contract shall be construed as if the invalid, illegal or unenforceable provision had never been contained in it, unless to do so clearly negates the overall intent or purpose of the parties in entering into this contract.

10. **CHANGES IN COMMERCIAL SPECIFICATIONS**:

Specifications for all commercial components of the Command Access Vehicle, manufactured by companies other than Stonewell are subject to change without notice. Specifications for such components will be as available at the time of manufacture of the Command Access Vehicle. Stonewell shall not be liable for any specification deviations from the original contract specifications on such components made by their original manufacturer.

11. **CHANGES IN REGULATIONS/INDUSTRY STANDARDS**:

The Purchase Price is subject to adjustment for changes to the Command Access Vehicle necessitated by changes in applicable government regulations (such as FMVSS or emissions regulations), industry standards (such as NFPA standards), replacement of discontinued models or components from vendors, or freight charges. Buyer is responsible for any cost increases due to such changes beyond Stonewell Bodies and Stonewell Bodies & Machine Inc.'s control.

12. **CHANGE ORDERS**:

Changes in the build contract may be submitted to Stonewell. These changes must be in writing and when necessary, drawings may be required. Dependent on where in the build process the CAV is, the change order may be accepted or rejected by Stonewell. The cost of the change will be added on to the total cost of the CAV. This new price must be approved and agreed to in writing by the purchaser. While change orders are being processed, the completion date shall be extended according to the days spent processing the change order as well as the time needed to complete the
changes.

IN WITNESS WHEREOF, Buyer and Stonewell Bodies & Machine Inc. have caused this agreement to be executed by their duly authorized representatives this day of:

PURCHASER: _____

Print Name: _____

Signature: _____

Title: _____

Date: _____

Stonewell Bodies

This contract is not a valid and binding obligation until approved, dated and executed by Stonewell Bodies & Machine Inc. inc.

ACCEPTED AND APPROVED

Stonewell Bodies & Machine, Inc.

Print Name: _____

Signature: _____

Title: _____

Date: _____

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Construction Period

The delivery of the vehicle shall be approximately 360 calendar days after receipt of the chassis.

The bidder shall not be responsible for delays in delivery due to strikes, acts of God, failure of suppliers to deliver, chassis shortage and other reasons beyond the reasonable control of the builder. Should the bidder be unable to comply with the proposed delivery date, the purchaser shall be notified with the reasons for non-compliance.

PRE-CONSTRUCTION MEETING

A pre-construction meeting shall be conducted via a Webcast.

ONE (1) YEAR PARTS & LABOR WARRANTY

Stonewell Bodies & Machine Inc. SWBM Limited Warranty Coverage. General parts and labor warranty for the body, integral components, materials, and workmanship are warranted against defects and failure for one (1) year on parts and labor.

Components purchased by SWBM from suppliers are subject to the warranties provided by those suppliers. Warranty period commences from the in-service date for the body. The body must be used only for its intended purpose. The body must be maintained and serviced according to the guidelines in the supplied documents.

Exclusions: This warranty applies only to the SWBM manufactured body and its integral components and excludes options and accessories, which are covered by separate vendor specific warranties. The warranty is valid only when the body is used for its intended purpose. Warranty does not apply to any product or component that has been overloaded, altered, abused, misused, or damaged by impact or collision. This warranty is not transferable.

Warranty repairs performed by SWBM or its authorized agents: warranty repairs shall be performed at an SWBM facility or at an authorized distributor. SWBM may, at its discretion, pick up and return the vehicle to the owner's location or may request that the owner deliver the vehicle to the repair site.

Warranty repairs performed by non-SWBM Entities: SWBM may authorize a third party to perform warranty repairs. Any such decision will be based on type of repair, distance to the nearest approved SWBM repair site, and urgency of the repair. SWBM must provide written authorization and permission

before a non-SWBM entity begins repair or replacement of components. Warranty claims for unauthorized and unsubstantiated work may be denied.

Peripheral, incidental, and consequential damages and claims: The SWBM limited warranty does not apply to damage and failure resulting from misuse, abuse, neglect, accident, improper customer/distributor installation, lack of maintenance, or natural events.

Any modifications by the buyer or any third party, without the prior written consent of SWBM, may void this warranty. Operating conditions, or applications not made known to or contemplated by SWBM at the time of delivery to the buyer may also void this warranty. Damages resulting from any other abnormal operation will not be covered by this warranty. Normal maintenance, wear, and consumable items such as light bulbs are not covered under this warranty.

SWBM will not reimburse for lost time, business, or business opportunity, or for any loss of use related to warranty claims. SWBM will not provide or pay for the use of a rental vehicle, equipment, or tools while warranty work is performed. SWBM will not reimburse for equipment or tools that are damaged, lost, or missing in conjunction with a warranty claim. SWBM is not responsible for, and will not reimburse for mileage, fuel, and wear incurred in the process of driving the vehicle to a repair site or delivery to the end user location, nor for lost time incurred by an owner delivering and picking up a vehicle or associated components.

This limited warranty is the sole and exclusive remedy for defective products manufactured and/or installed by SWBM.

HOW TO OBTAIN WARRANTY SERVICE FROM STONEWELL BODIES & MACHINE INC.

Making an appointment for warranty service at an SWBM facility or authorized repair site:

1. Call the SWBM location where your truck was built.
2. Discuss the problem with the warranty representative to determine resolution and repair schedule.

Requesting authorization to perform warranty work:

1. Obtain the following information: All of the information requested in item #2 above.
    a) Documented photographs for any physical damage. (paint, dents, etc.)
    b) Inspection notes by SWBM personnel or a third party representing SWBM if necessary.

2. Call the SWBM location where your truck was built. Discuss the problem with the warranty representative to determine coverage and repair method.

3. The representative will grant permission to perform repairs if approved.

4. IMPORTANT! The representative must issue a Returned Goods Authorization (RGA) number.

5. Defective parts must be returned freight prepaid to SWBM within seven days.

6. If the affected component was purchased from a non-SWBM supplier, please allow extra time for SWBM to contact and work with the supplier.

Stonewell Bodies & Machine Inc. reserves the right to deny any warranty if proper procedures are not followed. Proper documentation, including photos, must be provided for SWBM to validate and approve any claim submitted after repairs are done by a third party.

FIVE (5) YEAR STRUCTURAL BODY WARRANTY

Stonewell Bodies & Machine Inc. SWBM Limited Warranty Coverage: the structural integrity of the body, integral components, materials, and workmanship are warranted against defects and failure for five (5) years, with 100% parts and labor coverage. This warranty is in additional to the standard parts and labor warranty attached for the entire body and components.

Components purchased by SWBM from suppliers are subject to the warranties provided by those suppliers. Warranty period commences from the in-service date for the body. The body must be used only for its intended purpose. The body must be maintained and serviced according to the guidelines in the supplied documents.

Exclusions: This warranty applies only to the SWBM manufactured body and its integral components and excludes options and accessories, which are covered by separate vendor specific warranties. The warranty is valid only when the body is used for its intended purpose. Warranty does not apply to any product or component that has been overloaded, altered, abused, misused, or damaged by impact or collision. This warranty is not transferable.

Warranty repairs performed by SWBM or its authorized agents: warranty repairs shall be performed at an SWBM facility or at an authorized distributor. SWBM may, at its discretion, pick up and return the vehicle to the owner’s location or may request that the owner deliver the vehicle to the repair site.

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Warranty repairs performed by non-SWBM Entities: SWBM may authorize a third party to perform warranty repairs. Any such decision will be based on type of repair, distance to the nearest approved SWBM repair site, and urgency of the repair. SWBM must provide written authorization and permission before a non-SWBM entity begins repair or replacement of components. Warranty claims for unauthorized and unsubstantiated work may be denied.

Peripheral, incidental, and consequential damages and claims: The SWBM limited warranty does not apply to damage and failure resulting from misuse, abuse, neglect, accident, improper customer/distributor installation, lack of maintenance, or natural events.

Any modifications by the buyer or any third party, without the prior written consent of SWBM, may void this warranty. Operating conditions, or applications not made known to or contemplated by SWBM at the time of delivery to the buyer may also void this warranty. Damages resulting from any other abnormal operation will not be covered by this warranty. Normal maintenance, wear, and consumable items are not covered under this warranty.

SWBM will not reimburse for lost time, business, or business opportunity, or for any loss of use related to warranty claims. SWBM will not provide or pay for the use of a rental vehicle, equipment, or tools while warranty work is performed. SWBM will not reimburse for equipment or tools that are damaged, lost, or missing in conjunction with a warranty claim. SWBM is not responsible for, and will not reimburse for mileage, fuel, and wear incurred in the process of driving the vehicle to a repair site or delivery to the end user location, nor for lost time incurred by an owner delivering and picking up a vehicle or associated components.

This limited warranty is the sole and exclusive remedy for defective products manufactured and/or installed by SWBM.

PAINT WARRANTY

The PPG Commercial Paint Performance Warranty covers the vehicle refinished with specified and approved products for a period of three (3), years beginning the day the vehicle is delivered to the customer / dealer. The warranty provides coverage for the following items:

a) Peeling or de-lamination of the topcoat and or other layers of paint

b) Cracking, checking

c) Loss of gloss caused by cracking, checking, or hazing

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PAINT WARRANTY EXCLUSIONS

Paint deterioration caused by blisters or other film degradation due to rust or corrosion originating from the substrate. Hazing, chalking or loss of gloss caused by improper care, abrasive polishes, cleaning agents, heavy duty pressure washing, or aggressive mechanical wash systems. Paint deterioration caused by abuse, scratches, chips, gloss reduction, accidents, acid rain, chemical fall-out or acts of nature. Failures on finishes due to inadequate film builds. Failures due to improper cleaning or surface preparation or failure to allow the product instructions.

Claims presented without proper warranty documentation.

''AS BUILT'' WIRING DIAGRAM

The manufacturer shall provide one (1) "as built" wiring schematic for the electrical components and the wiring system. These diagrams shall be in a notebook type binder, with reference tabs if needed.

CHASSIS SPECIFICATIONS

CHASSIS SPECIFICATIONS

Chassis, Commercial, Supplied by Purchaser

COMMERCIAL CHASSIS

The chassis shall be a new, unused commercial chassis drop shipped to the apparatus body manufacturer's production facility. Stonewell shall conduct the pre-delivery inspection.

CHASSIS SPECIFICATIONS

One (1) CHEVROLET 3500, Pick Up Truck, four wheel drive, single rear wheels, four (4) door crew cab.

REAR MUD FLAPS

Black mud flaps with the stainless-steel logo shall be installed behind the rear wheels.

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CUSTOM FABRICATED CENTER CONSOLE AND SWITCH PANEL

A custom designed console shall be fabricated of .125" smooth aluminum and installed on the cab floor, centered between the driver's and passenger seat, as far rearward as possible. The console shall contain warning light controls, siren, and other items that are specified. At the rear of the console, two (2) top loading bins shall each accommodate a 3" binder or single use gloves as required.

The console shall have a mechanically fastened top for easy service access and shall be coated with a flat black powder coating on all interior and exterior surfaces for durability and appearance.

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BODY AND COMPARTMENT SPECIFICATIONS

Stonewell Command Access Vehicle
(CAV)

Body Specification

CAV: 90"L x 76"W x CAB HEIGHT, FULL DOOR

The CAV body shall be suited to a Short Bed Pick Up Truck. The body shall incorporate Full Length Doors.

GENERAL OVERVIEW

The Stonewell Command Access Vehicle (CAV) is a multi-purpose aluminum truck body intended to replace factory made pick up truck beds installed by manufacturers such as Ford, GM and Fiat Chrysler. Once a factory installed bed is removed, the CAV body will be mounted to the frame rails of the chassis and a provide an enclosed structure to store, transport or secure items as needed.

The CAV body is manufactured from an aluminum sub-structure and frame that is skinned with aircraft grade aluminum panels thus enclosing the structure. Three (3) main doors shall provide access to the upper section (frame) of the CAV body, and depending on interior construction, shall provide visibility to the entire above-frame compartment. The CAV is highly versatile in its intended application and with an interior designed to address the specific needs of the user.

In emergency services applications, the CAV can be configured with NFPA-like lighting. Interior and exterior lighting shall be added per customer specifications. Additionally, paint, graphics, lettering, chevrons and striping can be added to support NFPA standards and customer needs.

FRAME CONSTRUCTION

The frame of the CAV shall be considered the body structure coming directly in contact with the vehicle chassis though isolated via our mounting system. The frame structure shall be MIG welded and comprised of extruded aluminum tubing made of 6061 x .125'' material, hardened to T-6 specifications. At no time shall the frame of the CAV come in direct contact with the chassis of the vehicle. The frame shall be welded in a proprietary pattern to maximize strength and minimize body flexing. All tubing shall be cut via CNC controlled saw to ensure precise tube section length. Welding of the tubes shall be done in a rotary fixture to minimize tube warpage and ensure proper fit-up for welding. Butt-welding of tubes

will include end-chamfering of tube lengths to ensure weld penetration. Additionally, welds shall be no smaller than 3/8” and no larger than ½” and shall be welded on no few than two sides. Where allowable based on construction method, all 4 sides of the tube shall be welded. Tube sides requiring skinning shall have welds ground smooth to minimize skin warpage or deflection.

HOOP CONSTRUCTION

Similar to frame construction, the hoop section of the CAV shall be considered the vertical structure mated to the frame and rising vertically to form the storage compartment. The hoop structure shall be MIG welded and comprised of extruded aluminum tubing made of 6061 x .125’’ material, hardened to T-6 specifications. All 4 sides of the tube shall be welded to its counterpart. At no time shall the hoop of the CAV come in direct contact with the chassis of the vehicle. The hoop shall be welded in a proprietary pattern to maximize strength and minimize flexing. All tubing shall be cut via CNC controlled saw to ensure precise tube section length and cut angle. Welding of the tubes shall be done on a rotary fixture to minimize tube warpage and ensure proper fit-up for welding. But-welding of tubes will include end-chamfering to ensure weld penetration and angle correctness. Additionally, welds shall be no smaller than 3/8” and no larger than ½” and shall be welded on no fewer than (4) four sides. Where allowable, based on construction method, all 4 sides of the tube shall be welded. Tube sides requiring skinning shall have welds ground smooth to minimize skin warpage or deflection.

Water “gutters” shall be installed on the side door outer most frame members. These gutters shall enable water to be channeled off the roof surface and follow a path to leave the body without entering the main storage compartment.

PROTECTIVE COVERING -- FRONT BODY

The entire front of the apparatus body shall have a protective covering installed. The covering shall be constructed of bright .100" aluminum tread plate material.

ROOF CONSTRUCTION

The portion of the hoop considered the roof of the compartment shall be framed with 6061 x .125’’ material, hardened to T-6 specifications. The same welding practice as used in the frame and hoop manufacturing process shall be used to construct the roof. The exterior portion of the roof shall be lined with 5052 x .060’’ aluminum on the exterior. The exterior skin shall be bonded to the roof frame utilizing an aluminum adhesive, 3M brand VHB double sided tape and zinc coated mechanical fasteners. Any mechanical faster that is exposed to the elements shall be covered with silicone to ensure a water proof seal. To minimize condensation in the compartment, R-15 foam board insulation shall be installed between the roof cross-members and encased between the roof skin and an interior skin (ceiling). To complete the roof section, an interior skin of 5052 x .040’’ aluminum shall be installed on the “ceiling”

portion of the roof. This skin shall form the interior ceiling. Gussets shall be welded in the corner joints that connect the roof to the hoops. The gussets shall be stitch welded to minimize warpage of either the roof, hoop or gusset.

SIDE DOOR CONSTRUCTION

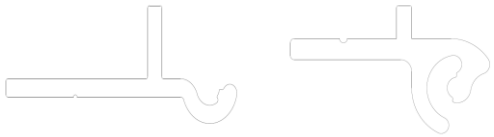
Construction of the CAV side doors shall consist of an interior frame with laminated skin. The exterior portion of the door shall be constructed from 5052 x .090'' aluminum. The exterior skin shall be bonded to the door frame utilizing an aluminum adhesive applied under pressure, and 3M brand VHB double sided tape. Mechanical fasteners shall not be used to fasten the skin to the frame. The frame and door skin shall be angled in such as way as to contour to the shape of the truck. "D" seal shall be applied to the perimeter of the door to create a waterproof seal and a
rain gutter shall be formed to channel water away from the door opening.

REAR DOOR CONSTRUCTION

Construction of the CAV rear door shall consist of an interior frame with laminated skin. The exterior portion of the door shall be constructed from 5052 x .090'' aluminum. The exterior skin shall be bonded to the door frame utilizing an aluminum adhesive applied under pressure, and 3M brand VHB double sided tape. Mechanical fasteners shall not be used to fasten the skin to the frame. The frame and door skin shall be mounted to the roof of the body using a stainless steel hinge, with a pin diameter of no less than .125''. "D" seal shall be applied to the perimeter of the door to create a waterproof seal.

SIDE DOOR HINGES

The side doors of the CAV unit shall be connected to the roof of the body using a proprietary interlocking sliding hinge. The hinge shall be water proof and shall run full length of the roof surface to evenly disperse the weight of the door. A piano style hinge shall not be used to connect the doors to the roof. Please see an illustration of the roof hinge sections. The hinge shall be connected to the roof and door section and form a water tight union that can slide forward, and aft, to accommodate light contact should the door be struck on the leading or trailing edge - while in the open position. Stainless steel rivets shall be used to connect the hinge to the door and self tapping screws shall be used to connect the female portion of the hinge to the roof. A sealant shall be applied between the roof and hinge to create a water barrier. Each self tapping screw shall have a factory installed rubber washer to further protect from water entering the main body.



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REAR DOOR HINGE

The rear door hinge shall be of a piano style design and shall be stainless steel. The hinge pin diameter shall be no less than .166''. To ensure a water tight connection between the door and the body, the hinge shall be covered with a rubber membrane that is flexible and durable. Additionally, any fasteners used to connect the door to the roof shall be encased in silicone that is applied under power.

BODY MOUNTING

The body mounting system shall consist of an UHMWPE contact strip and aluminum extrusion. The aluminum extrusion will be welded to the CAV frame while the UHMWPE contact strip shall be in contact with the chassis frame and retained be the extrusion. This mounting method prevents electrolysis and enables body and chassis flexing. A coil spring and bold system shall be used to secure the body to the chassis.

COMPARTMENT FLOOR CONSTRUCTION

The compartment floors shall be .125" #5052-H32 aluminum with a "lip free" and sweep out construction, which shall permit easy cleaning of the compartment. A DA finish shall be applied.

DOOR HANDLES

Eberhard stainless steel door handles shall be used on all (3) three compartment doors. Side doors shall be fastened using a slam latch method, while the back door shall utilize a rotary latch and cable system. All door latch points must be adjustable without the need to fully remove the latch. No plastic shall be used in any door handle, latch or striker.

FASTENERS

Fasteners are to be stainless steel unless used in roof surfaces or for interior component mounting.

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FUEL FILL ACCESS -- LEFT SIDE

A Cast Products model #FG2103 fuel fill cover shall be installed on left side of the wheel well area. The cover shall be custom made of polished aluminum and shall be vertically hinged on the forward side.

ELECTRICAL ENCLOSURES

Two (2) electrical wiring enclosures for the 12 volt wiring shall be installed in a rear body compartment with removable panel. Easy access to electrical connections is required.

12 VOLT POWER SOURCE - DUAL OUTLET

One (1) dual 12 volt plug-in utility power connection rated at 20 amps shall be provided at rear of CAV body mounted in the vertical tail panel. Model Waytek 78035.

ELECTRICAL WIRING AND HARNESS

The body shall be pre-wired with various electrical harnesses and conduits. The 12 volt electrical wiring shall be function coded and enclosed in split loom conduits, suitably secured and protected against heat and physical damage. All wiring shall be sized according to circuit load. All connections are to be of a crimp type with heat shrink insulator where required.

The electrical system shall be divided into separate harnesses. The individual harness shall be connected to the electrical box with Deutsch quick connectors. The apparatus lighting shall be protected by automatic circuit breakers and/or relays. The electrical power to all apparatus lighting and accessories shall be supplied by an ignition activated solenoid.

IDENTIFICATION LIGHTS

All LED identification lights shall be installed on the vehicle as required by applicable DOT highway regulations.

Red - B & D Sides, lower rear end of body

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OPEN DOOR MARKER LIGHT

A ¾" LED marker light shall be installed in the perimeter of the CAV driver and passenger side door frame corners. The light shall automatically turn on when the door is opened to alert operators of the door location. A total of 2 lights shall be installed in each door. The locations shall be:

13. 1 amber in the leading outermost door frame
14. Red in the outermost rear of the door frame

OPEN DOOR CONSPICUETY TAPE

Each side doors' outer frame corner shall be wrapped with red and silver conspicuity tape. The tape shall extend approximately 12" from the outermost corner.

DOT COMPLIANT REFLECTORS

Reflectors shall be applied to the body to ensure compliance to all State and Federal regulations.

LICENSE PLATE BRACKET

A license plate bracket with LED light shall be provided at the rear of the apparatus, unless otherwise specified by the department.

INTERIOR COMPARTMENT FINISH

The interior bulkhead wall, floor and ceiling surfaces of the body compartments shall be unpainted aluminum. The deck shall be an aluminum DA finish while the bulkhead shall be mill finish. Care shall be taken in the manufacturing process to minimize blemishes. All joints and seams will be sealed with TremPro 644 RTV silicone tined metallic silver.

WHEEL WELL LINERS

Wheel well liners designed to protect the body from impact resulting from road debris thrown by the tires shall be installed. The wheel well shall be provided with aluminum fender liners that shall be formed so as to eliminate pockets that might trap and collect road dirt.

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CAV - Interior Compartment Fabrication

CAV DRIVER SIDE INTERIOR

J- Wall Driver Side
The J- walls shall run perpendicular to the divider wall. The J-Wall can be either 12" or 24" deep and height as specified. The dimensions of the floor to ceiling and shall be spaced approximately TBD” apart. The walls shall be constructed of DA finished 5052-H32 aluminum of no less than .090” thickness.

The J-walls shall be located: Approximately 25” from the front bulkhead.

CAV PASSENGER SIDE INTERIOR

J- Wall , Passenger Side
The J- walls shall run perpendicular to the divider wall. The J-Wall can be either 12" or 24" deep and height as specified. The dimensions of the floor to ceiling and shall be spaced approximately TBD” apart. The walls shall be constructed of DA finished 5052-H32 aluminum of no less than .090” thickness.

The J-walls shall be located: Approximately 25” from the front bulkhead.

CAV REAR INTERIOR
REAR PARALLEL DIVIDER WALLS - LONG

Two parallel divider walls shall run the length of the body for a total length of approximately 76”. The walls shall run from floor to ceiling and shall be spaced approximately TBD” apart. The walls shall be constructed of DA finished 5052-H32 aluminum of no less than .090” thickness.

The walls shall be suitable for mounting accessories such as tools or PacTrak tool mounting boards.

REAR WHEEL FENDERETTES

Black radius rubber fenderettes shall be installed at each rear wheel opening. The fenderettes shall be positioned outside of the wheel well panel to cover the tire area that extends past the body. The fenderettes shall be secured with Trim Lock adhesive.

ADJUSTABLE SHELVES -- 25" Wide

Adjustable shelves shall be constructed of .125" thick Type #5052 smooth aluminum plate and be mounted in specified compartments. Each shelf shall have an aluminum angle reinforcement and 2" vertical lip perimeter. The upper shelf will have a depth of 12” and the lower shelf 18”.

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The location shall be in: Qty (1) 12” D and Qty (1) 18”D in left side Cav body and Qty (1) 12” D and Qty (1) 18”D in the right side CAV body.

2,000# ROLLOUT TRAYS -- 80" DEEP

A SLIDEMASTER Model SM3-HD rollout equipment tray shall be installed in the specified compartment. The 2,00# rated tracks shall have sealed roller bearings with steel angle framework and powder coated. The tray shall be constructed of .160" smooth aluminum plate, with a full width double channel lip on front edge to form a pull out handle. The unit shall roll fully out of the compartment, and equipped with a locking device to hold tray in both the "in and out" positions.

The location shall be:
1. Compartment # RR1

VERTICAL TOOL BOARD -- 76" DEEP

A tool board panel shall be provided and mounted vertically in the noted exterior compartment. The panel shall be constructed of (2) .125" smooth aluminum panels attached to 1”x1” tube and mounted to ceiling and floor adjustable tracks. This construction allows for strength and the ability to mount to both sides using nutserts providing maximum flexibility for tool arrangement.

The location shall be:
1. Compartment # RR1

STOKES BASKET SLIDE-IN MOUNTING -- HORIZONTAL

A horizontally mounted slide-in stokes basket module shall be installed in the specified compartment. The module shall be constructed of .125" aluminum. The unit shall be approximately 26" wide x 76" deep x 10" high. (One (1) stretcher shall be supplied by the fire department).

Location shall be:

1. Compartment # Ceiling RR1

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TOOl BOX -4 DRAWER, 5,5,5,5 PB LATCH, 20"W X 20"D

A five drawer tool box shall be installed in a location chosen by customer. The tool box shall be constructed of 5052-H32 Aluminum and shall contain 5 drawers. Each drawer shall be supported by a full extension Accuride drawer slide with full ball bearings and retainer. The depth of the tool box is approximately 10” due to the angle of the door.

The cabinet shall have 5/8” side stiffening flanges for additional cabinet rigidity.

The drawer shall be secured via a SouthCo push button latch and black grab handle. The drawer faces shall be of a swirled metallic finish. Each drawer shall be rated at 95 lbs.

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LOW VOLTAGE ELECTRICAL SPECIFICATIONS

12 VOLT ELECTRICAL SPECIFICATIONS - FULL INSTALLATION

The following describes the low voltage electrical system on the apparatus including all panels, electrical components, switches, wiring harnesses and other electrical components. The apparatus manufacturer shall conform to the latest Federal DOT standards, current automotive electrical system standards and the applicable requirements of the NFPA.

Wiring shall be stranded copper or copper alloy conductors of a gauge rated to carry 125 percent of the maximum current for which the circuit is protected. Voltage drops shall not exceed 10 percent in all wiring from the power source to the using device. 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. Exposed wiring shall be run in a loom with a minimum 289 degree Fahrenheit rating. Wiring looms shall be properly supported and attached to body members. Electrical conductors shall be constructed in accordance with applicable SAE standards, except when good engineering practice requires special construction.

All wiring connections and terminations shall provide positive mechanical and electrical connections and be installed in accordance with the device manufacturer's instructions. When wiring passes through metal panels, electrical connections shall be via mechanical fasteners and rubber grommets

Wiring between cab and body shall be split using Deutsche type connectors or enclosed in a terminal junction panel allowing body removal with minimal impact on the apparatus electrical system. Connections shall be crimp-type with heat shrink tubing with insulated shanks to resist moisture and foreign debris such as grease and road grime. Weather resistant connectors shall be provided throughout the system.

Electrical junction or terminal boxes shall be weather resistant and located away from water spray conditions. When required, automatic reset breakers and relays shall be housed in the main body junction panel.

There shall be no exposed electrical cabling, harnesses, or terminal connections located in compartments, unless enclosed in an electrical junction box or covered with a removable electrical panel. Wiring shall be secured in place and protected against heat, liquid contaminants and damage and shall be uniquely identified by color coding or permanent marking and identified on a reference chart or electrical wiring schematic per requirements of applicable NFPA standards.

Low voltage overcurrent protective devices shall be provided for the electrical circuits. The devices shall be accessible and located in required terminal connection locations or weather resistant enclosures.

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Overcurrent protection devices shall be automatic reset type suitable for electrical equipment 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. Electro-magnetic interference suppression shall be provided in the system as required in applicable SAE standards.

- The electrical system shall include the following:

- Electrical terminals in weather exposed areas shall have a non-conductive grease or spray applied. All terminal plugs located outside of the cab or body shall be treated with a corrosion preventative compound.
- All electrical wiring shall be placed in a protective loom or be harnessed.
- Exposed connections shall be protected by heat shrink material and sealed connectors.
- Large fender washers shall be used when fastening equipment to the underside of the cab roof and all holes made in the roof shall be caulked with silicone.
- Electrical components installed in exposed areas shall be mounted in a manner that will not allow moisture to accumulate inside.
- A coil of wire must be provided behind an electrical appliance to allow them to be pulled away from mounting area for inspection and service work.
- All lights in a weather exposed area that have their sockets shall have corrosion preventative compound added to the socket terminal area.
- Warning lights shall be switched in the chassis cab with labeled rocker type switches located in an accessible location. Individual rocker switches shall be provided only for warning lights provided exceeding the minimum level of warning lights in either the stationary or moving modes. All electrical equipment switches shall be appropriately identified as to their function and mounted on a switch panel mounted in the cab convenient to the operator. For easy nighttime operation, an integral indicator light shall be provided to indicate when a circuit is energized.

A single warning light switch shall activate all required warning lights. This switch will allow the vehicle to respond to an emergency "calling for the right of way". When the parking brake is activated, a "blocking the right of way" system shall be automatically activated per NFPA requirements. "Clear" warning lights shall be automatically shed on actuation of parking brake.

Upon completion of the vehicle and prior to delivery, the apparatus shall be electrically tested and the electrical testing, certifications, and test results shall be submitted with delivery documentation per requirements of NFPA.

Stonewell Bodies

ELECTRIC DOOR LOCKS

Remote actuated door locks. Activates all large body-doors with key fob. Includes installation.

USB PORT

Two Kussmaul model 091-219-4, 4.2 Amp USB ports shall be installed in the center console. A protective cover shall seal the input ports.

TABLET MOUNT

UT-2003: Universal Rugged Cradle for approximately 9"-11" Computing Devices, with Added Depth Compatible computer sizes: width: 9.30" (23.622cm) to 11.24" (28.54cm), height: 6.830" (17.34cm) to 8.13" (20.65cm), depth: 0.76" (1.93cm) to 1.145" (2.90cm)

- Testing & certifications: RoHS, crash tested up to 30 mph
- VESA hole pattern for standardized mounting and easier installation
- Product dimensions: width: 10.41" (26.44cm), height: 8.39" (21.31cm), depth: 2.31" (5.43cm)
- Product weight: 2.38 lbs. (1.08 kg)
- Gross Weight: 3.25 lbs

KNOX BOX INSTALLATION

A department supplied knox box shall be installed and powered in the console.

BATTERY CHARGER

Kussmaul Electronics Auto Charge 1000 Model 091-215-12. To allow for the battery to be charged when the vehicle is parked within the fire station and plugged into 120-volt AC power a battery charger shall be provided. Provided battery charger shall be powered by 120 volts provided by a shore line connection and draw no less than 4 Amps at 120 VAC. The output at 12 VDC shall be no less than 15 Amps and have a three [3] step charging mode and battery selection switches which shall allow programming for Lead-Acid, Gel Cell, AGM or Odyssey.

The battery charger shall have a remote status indicator connection point to allow for battery condition and charging status indicator to be connected. The provided battery charger shall have a battery direct power and ground which shall be no less than 10 Ga and labeled no less than every six [6] inches. A means of disconnect to isolate the battery charger shall be provided as well as a rated automotive fuse in

accordance with NFPA and SAE specifications. Battery Chargers shall have no less than a three [3] year warranty.

Kussmaul Electronics Auto Charge Status Center, Model 091-189-12-3.5D. A battery charge status indicator which plugs directly into the battery charger shall be provided. Provided indicator shall have no more than a thirty [30] milliamp parasitic draw on the battery and display battery charge status and battery voltage, and shall have no less than a three [3] year warranty.

120 VOLT SHORE POWER RECEPTACLE

A Kussmaul model 091-55-20-120 20 amp "auto-eject" shore power receptacle shall be provided with hinged weatherproof cover and an enclosure for protection from road dirt and damage The shore power plug shall be "ejected" when the chassis's engine starter is engaged and the receptacle shall be wired to any 120 volt A/C equipment requiring shore power. Location shall be: _____ Color shall be _____

LIGHTING

All Emergency and rear body DOT lighting (four stack with LED lights) will be provided by the customer and installed by Stonewell Bodies.

TAIL, TURN, BACKUP ASSEMBLY LIGHTS

Two (2) Whelen #M6 Series tail-stop-turn-backup light assemblies shall be provided. and installed. The lights shall be mounted in chrome four (4) bezel housing and installed at rear of the body. The following lights shall be provided:

a) (2) Red tail and stop lights
b) (2) Amber turn signals
c) (2) Back-up lights
d) (2) Red warning lights

CEILING LIGHTS TecNiq E - CAV BODY

Six (6) TecNiq Model E32-L000-1, 14" x 3.5" diameter LED lights shall be mounted to the body ceiling with auto-on function. The lights shall be mounted (2) on each side - Driver, Passenger, Rear.

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CEILING LIGHTS TecNiq - CAV BODY

Six (5) TecNiq Model E18, 4.55" x 2.75" diameter LED lights shall be mounted to the main body side doors ceiling with auto-on function. The lights shall be mounted (2) on each side - Driver, Passenger, Rear.

INSTALLATION OF PORTABLE HAND HELD FLASHLIGHT

One (1) customer supplied hand held flashlight with charging base shall be installed on the center consoled. The exact location to be specified by the customer.

GROUND LIGHT

A TecNiq E10, 12 volt ground light shall be installed with mounting bracket wired to switch control in cab. There shall be two (2) lights at the rear of the body.

COMPARTMENT LIGHT SWITCHES

The exterior compartment lights shall be automatically controlled by a door activated "On-Off" switch.
OPEN DOOR WARNING

NO Audible Warning

INSTALLATION - RADIO ANTENNA

One (1) radio antenna shall be supplied by the purchaser and installed on the apparatus at a location to be determined by the Purchaser.

RADIO CHARGER

One (1) 12 volt radio charger shall be supplied by the purchaser and installed on the apparatus. Location shall be:

RADIO SPEAKER

One (1) fire radio speaker supplied by the purchaser and installed. Location shall be:

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RADIO INSTALLATION

One (1) fire radio shall be supplied by the purchaser and shall be installed.

RADIO REMOTE HEAD

One (1) fire radio remote head shall be supplied by the purchaser and installed. Price includes radio cable not to exceed 25 feet.

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INSTALL CUSTOMER SUPPLIED MSA HUB

A customer supplied MSA HUBB (SCBA TELEMETRY) will be installed in the vehicle. Any specific programming will remain the responsibility of the customer.

12 VOLT POWER SOURCE

One (1) 12 volt plug-in utility power connection rated at 3.1 amps shall be provided in cab.

BACK-UP ALARM

One (1) automatic electric back-up alarm shall be chassis supplied and be wired to the back-up light circuit, and mounted under the rear of the apparatus body.

REINSTALL OEM BACK UP CAMERA

The Original OEM back up camera shall be re-mounted in the body of the Stonewell apparatus. Stonewell shall manufacture a bracket to hold the camera and locate the assembly in a location most suited to providing an unobstructed view. All OEM cables shall be reused.

ELECTRONIC SIREN

Whelen Model CCSRNT5 - CEN-COM Carbide, self contained electronic siren shall be provided. The 100/200 watt, with (8) function siren shall have hands-free operation with public address and radio re-broadcast features. The siren shall have the following tones: wail, yelp, mechanical, hi-low, yelp-249, whoop/warble (Powercall type tone), and air horn. The siren shall be able to operate in dual or mono modes. The OBDII port plug shall be included.

The TA module shall be capable of controlling a traffic advisors.

Stonewell Bodies

The unit shall have solid-state over/under voltage shutdown and output short circuit protection. The dip switches located on the amplifier shall allow the user to change siren tone configurations. A list of the tone configurations shall be provided in the installation guide. The dual remote amplifier shall operate two (2) 100 watt speakers.

The siren shall have a face plate with green LED backlighting for easy control selection and visibility. The siren shall have a removable unidirectional microphone with a 'push to talk' function that shall override all siren functions.

SIREN SPEAKERS

Two (2) Whelen Model #SA315P siren speakers shall be provided. The 100 watt siren speakers shall be with nylon composite housing with 122.5 decibel rating.

MECHANICAL SIREN

One (1) Whelen HOWLER low frequency siren shall be provided and installed. The Howler shall use the output of a standard emergency vehicle siren and shall synthesize a low frequency vibrating signal. The Howler shall amplify this signal to drive Whelen low frequency speakers.

The Howler shall incorporate the latest solid-state designs for superior reliability and sound quality. The system shall be comprised of an amplifier, two speakers, a timer, and mounting hardware.

The siren shall be controlled with a two (2) position momentary switch, located on the cab dash, to allow the operator to turn the Howler on or off while the main siren is activated.

ZONE A -- UPPER LIGHTBAR

One (1) Whelen Model # JV2RRRR Super-LED NFPA lightbar shall be provided. The 56" lightbar shall be designed to meet the minimum clearing requirements for Zone A Upper. The internal components of the lightbar shall be housed within a rugged extruded aluminum I-beam. The outer shell shall be clear optic polycarbonate lenses designed to maximize light output and shield against environmental elements.

The lightbar shall have all solid state components. The lightbar shall utilize snap-in brackets to hold in the lightheads. The brackets shall give the end user the ability to make quick repairs. The lightbar shall have two wire harnesses exiting the lightbar: one (1) 17 conductor 22 gauge control cable which controls all internal light functions; and one (1) 2 conductor 10 gauge cable for main power and ground. Each cable shall be 15' long.

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The lightbar shall have two (2) red Linear Super-LED corner modules to provide off angle protection for the front of the vehicle. Each corner module shall consist of twelve (12) Super-LEDs mounted within a single dual (over/under) vacuum metalized parabolic reflector for maximum light output. The twelve (12) LEDs shall be mounted in two straight lines of 6 LEDs each (over/under) for maximum light output.

There shall be six (6) 400 Series Linear Super-LEDs: two (2) red and two (2) white front facing, and two (2) red located in the alley positions. Each 400 Series module shall consist of a minimum of twelve (12) Super-LEDs mounted within a single dual (over/under) reflector. The reflector shall utilize a vacuum metalized parabolic reflector and two optic collimators for superior light output.

The solid state I/O board shall be microprocessor controlled. The I/O board shall have built-in reverse-polarity protection and output-short protection. The board shall have the ability to flash sixteen (16) LED warning lights. There shall be a data bank of 13 Scan-Lock flash patterns including steady burn. The board shall also have outputs to add takedown and alley lights. Low power and cruise light function shall also be included. The cruise light function shall allow the user to use the four (4) corner modules as marker courtesy lights.
ALL WARNING LIGHT LENSES TO BE CLEAR

ZONE A -- LOWER FRONT WARNING LIGHTS

Two [2] Red / White Whelen ION™ Duo Series Super-LED® Universal Light Surface Mount. lights shall be Red White, shall have no less than three [3] square inches of lens area, and have no less than a 5 year warranty. The light heads used shall meet or exceed the specifications set forth in KKK 1822-F, CAC Title 13 Article 22, SAE J595 and SAE J845. Housing shall be a die cast aluminum and chrome plated for corrosion protection. The grill lights shall have a means of disconnect such that the front grill assembly may be removed with the lights still mounted without having to cut to controlling wires.

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ZONE B AND D -- INTERSECTION LIGHTS

Two [2] Red / Blue Whelen Ion Series Super-LED® Universal Light. Front fender side warning lights shall be mounted on the front vehicle fender with a chrome flange. Lights shall be mounted in a location that provides the greatest visible warning in on the horizontal plane. The provided warning light shall incorporate Linear Super-LED® and Smart LED® technology. The lighthead configuration shall consist of 12 clear Super-LEDs and a clear optic polycarbonate lens. The warning light, with the aid of two screws, shall have the ability to be installed as a surface mount warning light. The lighthead shall utilize optic collimators and a metalized reflector for maximum illumination.

The warning light shall include an internal flasher with 125 Scan-Lock™ flash patterns including a variety of CA Title 13 compliant patterns, left/right, top/bottom, in/out, and steady burn. Provided warning light shall also provide synchronize and low power features. The lighthead shall meet KKK 1822F, NFPA 1901, and SAE specifications. The lens/reflector assembly shall be sealed and resistant to water, moisture, dust, and other environmental conditions.

The hard coated lens shall provide extended life/luster protection against UV and chemical stresses. The light engine shall be installed at the rear of the unit and be vacuum tested to ensure proper sealing. The PC board shall be conformal coated for additional protection. The light shall be red in color with a clear lense and individually controlled via the installed lighting control system.

ZONE B AND D -- LOWER MID CAB WARNING LIGHTS
Warning Lights, Whelen Tracer Series,6 segments, On Running Boards - LED

Whelen Tracers shall be installed below the cab and crew doors on each side of the apparatus.

ZONE B AND D -- LOWER MID BODY WARNING LIGHTS

Two [2] Whelen ION Red Warning Lights. Side body warning lights shall be mounted centered above the rear wheel well with a chrome flange. The provided warning light shall incorporate Linear Super-LED® and Smart LED® technology. The lighthead configuration shall consist of 18 clear Super-LEDs and a clear optic polycarbonate lens. The warning light, with the aid of two screws, shall have the ability to be installed as a surface mount warning light. The lighthead shall utilize optic collimators and a metalized reflector for maximum illumination.

ZONE B AND D -- UPPER FRONT BODY SIDE WARNING LIGHTS

Two (2) Whelen M6 Series Model #M6R 4-5/16" x 6-3/4" warning lights and a M6FC chrome flange shall be installed in the front upper body side panel. The warning lights shall incorporate Linear Super-LED and

Smart LED technology. The lightheads configuration shall consist of 18 red Super-LEDs and a red optic polycarbonate lens. The lightheads shall be surface mountable via two screws. The lightheads shall utilize an optic collimator and a chrome vacuum metalized reflector for maximum illumination. The lightheads shall include 164 flash patterns including: a variety of CA Title 13 compliant, syncable, left/right, top/bottom, in/out, and steady burn.

ZONE B AND D -- UPPER SIDE REAR WARNING LIGHTS

Two (2) Whelen M6 Series Model #M6R 4-5/16" x 6-3/4" warning lights and a M6FC chrome flange shall be upper rear body side panel. The warning lights shall incorporate Linear Super-LED and Smart LED technology. The lightheads configuration shall consist of 18 red Super-LEDs and a red optic polycarbonate lens. The lightheads shall be surface mountable via two screws. The lightheads shall utilize an optic collimator and a chrome vacuum metalized reflector for maximum illumination. The lightheads shall include 164 flash patterns including: a variety of CA Title 13 compliant, syncable, left/right, top/bottom, in/out, and steady burn.

ZONE C -- UPPER REAR WARNING LIGHTS

Two (2) Whelen M6 Series Model #M6R 4-5/16" x 6-3/4" warning lights and a M6FC chrome flange shall be upper body rear body panel. The warning lights shall incorporate Linear Super-LED and Smart LED technology. The lightheads configuration shall consist of 18 red Super-LEDs and a red optic polycarbonate lens. The lightheads shall be surface mountable via two screws. The lightheads shall utilize an optic collimator and a chrome vacuum metalized reflector for maximum illumination. The lightheads shall include 164 flash patterns including: a variety of CA Title 13 compliant, syncable, left/right, top/bottom, in/out, and steady burn.

TRAFFIC ADVISOR

A Whelen Model #TAL85, traffic advisor shall be installed rear of body. The 47" traffic advisor shall have eight (8) 2" x 5" amber LED lightheads with amber optic polycarbonate lenses for maximum light spread. The lightheads shall be fully encapsulated to protect against moisture and vibration. The lights shall be mounted within an extruded aluminum housing with a black powder coat finish. The traffic advisor shall include a remote control head, Model #TACTLD1, which shall operate the unit. The control head shall have a LED direction indicator and shall be back lit for greater visibility. There shall be high and low power functions available with the use of a three-position rocker switch. The traffic advisor functions shall include: right, left, split, and flash activated through the use of a rotary knob. Easily accessible dip switches at the rear of the control head shall give the operator the choice of eight (8) flash patterns.

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120 VOLT STRAIGHT BLADE RECEPTACLES

Four (4) 120-volt 20 amp straight blade receptacles with spring loaded weatherproof cover shall be provided with wiring to the circuit breaker panel. The receptacles shall be located: TBS at drawing approval.

BODY PAINTING SPECIFICATIONS - ROOF EXCLUDED

In preparation for painting, the body will be DA sanded and care will be taken to remove any reasonable surface blemishes, scratches, divots or marks that may appear post painting. Additionally, any surface marks that are not satisfactorily removed through DA sanding will be filled with automotive body filler to enhance surface preparation and post painting appearance.

The driver and passenger sides of the body shall be painted, as follows:

Manufacturer: PPG

Materials:

a) F3963 Pigmented wash primer

b) F3970 Urethane Primer

c) Delfleet Evolution FBCH Polyurethane Basecoat

d) Delfleet Evolution Urethane Clear

e) Delfleet Evolution FBC is a Polyurethane 3.5 VOC Basecoat designed to produce ultimate durability with the wet look appearance. The clear coat is a premium-quality urethane. The clear coat offers gloss and durability features.

f) The body shall be wet sanded, buffed and polished.

g) Single color: to match chassis.

FIRE EXTINGUISHER BRACK (1) MOUNTED TO CAV BODY

A department supplied fire extinguisher shall be installed using an aluminum bracket for support.

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SCBA MOUNTING BRACKET

One (1) Ziamatic Model 'Load & Lock' Walkaway air pack bracket shall be installed. It shall a collision restraint strap. Full high cycle clips shall be utilized to protect the air bottles from scratches. Location to be determined at presonstruction.

TOOL MOUNTING BOARD

Two (2) Performance Advantage PAC Trac model 7000-70, patented tool mounting system shall be provided. The tool mounting system shall permit quick and secure installation, relocation or removal of the brackets without drilling any holes.

The material shall be a 6063-T5 aluminum extrusion with a mill finish, length of 70", width of 8-5/8" and a height of 7/8". This material shall have the ability to be cut to a desired length and offer the flexibility for a wide variety of installations.

CAV BODY - OUTGOING FREIGHT

A Command Access Vehicle body will be shipped to the address designated by the Fire Department. Freight terms are FOB Stonewell Bodies, Genoa New York.