



**PRODUCT PRICING SUMMARY**

**TIPS 240901 Transportation Vehicles**

**VENDOR- 5426 LAKE COUNTRY CHEVROLET, 2152 N. WHEELER STREET JASPER, TX 75951**

**End User:** CITY OF ROUND ROCK

**Prepared by:** SETH GAMBLIN

**Contact:** \_\_\_\_\_

**Phone:** 512.436.1313

**Email:** \_\_\_\_\_

**Email:** sgamblin.silsbeefleet@gmail.com

**Product Description:** SILVERADO 3500 CC30943\*\*\*

**Date:** December 10, 2025

**A. Bid Item:** \_\_\_\_\_

**A. Base Price:** \$ **48,900.00**

**B. Factory Options**

Code	Description	Bid Price	Code	Description	Bid Price
CK30743	2026 SILVERADO 3500 CREW CAB	\$ -	Z82	TRAILERING PACKAGE	INC
	SHOTBED 4WD SRW	\$ 1,995.00	DWI	Mirrors, outside power-adjustable vertical t	\$ 1,110.00
LP5	Engine, Duramax 6.6L Turbo-Diesel V8	\$ 9,990.00	K34	Cruise control, electronic	inc
MGM	10 SPEED AUTOMATIC TRANS	\$ -	JL1	TRAILER BRAKE CONTROLLER	inc
	POWER WINDOWS / LOCKS	\$ -			
ZLQ	WT FLEET CONV PACKAGE	\$ 1,295.00	4X4	4WD UPGRADE	\$ 3,997.00
	inc. POWER MIRRORS, KEYLESS		PYV	Wheels, 18" (45.7 cm) machined aluminum	\$ 350.00
	ENTRY, CRUISE				
5H1	Key equipment, two additional key fobs	\$ 45.00			
<b>Total of B. Published Options:</b>					<b>\$ 18,782.00</b>

**Published Option Discount (5%):** \$ **(939.10)**

**C. Options**

\$= 221.8 %

Description	Bid Price	Options	Bid Price
		EXTERIOR- G7C RED HOT	\$ 795.00
		INTERIOR- CLOTH	
STONEWELL BODIES	\$ 149,352.00		
PAYMNET TERMS WIL LBE PASSED			
ON TO THE CITY OUTLINED IN THE			
STONEWELL QUOTE ***			
<b>Total of C. Unpublished Options:</b>			<b>\$ 150,147.00</b>

**D. Floor Plan Interest (for in-stock and/or equipped vehicles):**

\$ -

**E. Lot Insurance (for in-stock and/or equipped vehicles):**

\$ 500.00

**F. Contract Price Adjustment:**

DROP SHIP TO STONEWELL \*\*\*

**G. Additional Delivery Charge:**

0 miles

\$ -

**H. Subtotal:**

\$ 217,389.90

**I. Quantity Ordered** 1 x H =

\$ 217,389.90

**J. Trade in:**

\$ -

**K. Total Purchase Price**

**\$ 217,389.90**

Stonewell Bodies

**SPECIFICATIONS FOR**

**COMMAND ACCESS VEHICLE #3**

**ROUND ROCK**  
**FIRE DEPARTMENT**



**Brandon Lincoln**  
**901 Luther Peterson**  
**Round Rock, TX 78664**  
[Blincoln@roundrocktexas.gov](mailto:Blincoln@roundrocktexas.gov)  
**Ph. (512)818-1768**

**Date: 10/09/2025**

# Stonewell Bodies

Name: Round Rock Fire Department

Date: 10/09/2025

Address: 901 Luther Peterson

City, State: Round Rock, TX 78664



## 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. Custom Command Access Vehicle on Customer Supplied Chassis \$149,352.00**

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 production 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 precise 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 complement 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

## **AGREEMENT OF SALE FOR COMMAND ACCESS VEHICLE**

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

**Legal Name of Buyer : Round Rock Fire Department**

**Address 901 Luther Peterson Round Rock, TX 78664**

**Phone Number (512) 818-1768**

### **ACCEPTANCE:**

Stonewell agrees to sell, and Buyer agrees to purchase (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 10/10/2025 and shall expire on 11/09/2025.

### **2. DELIVERY SCHEDULE:**

The Command Access Vehicle shall be ready for transport in approximately “390-420” 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 **\$149,352.00** 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.

# Stonewell Bodies

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

Due upon signing: ..... **\$49,784.00**

Due upon video conference inspection after “30” \_\_\_\_\_ days of build ..... **\$49,784.00**

Due upon completion and video or in-person (at your cost) inspection prior to shipping.....**\$49,784.00**

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,

# Stonewell Bodies

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.

# Stonewell Bodies

**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:** \_\_\_\_\_

# Stonewell Bodies

## **Construction Period**

The delivery of the vehicle shall be: 390-420 calendar days. Delivery not to be earlier than Oct 2026.

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.

## **Final Inspection Trip**

The purchaser shall conduct a final inspection trip at the manufacturer's plant to inspect the completed vehicle for compliance to specification requirements. Transportation to this meeting shall be the responsibility of purchaser.

## **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.

# Stonewell Bodies

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.

# Stonewell Bodies

## **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 addition 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

# Stonewell Bodies

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 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.

# Stonewell Bodies

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

## **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, may be denied.

## **"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.

# Stonewell Bodies

## CHASSIS SPECIFICATIONS

### 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 2500, Pick Up Truck, four wheel drive, single rear wheels, four (4) door crew cab.

### Chandler Equipment Front Bumper Full Guard 24+ Chev 2500 3500

- HD steel construction.
- Black powder coat finish.
- Arrives winch ready and compatible with 10k-12k Warn winches
- Works with factory fog lights or 2" aftermarket pod lights.
- (Includes both light housings - pod lights sold separately)
- No body trimming required for installation.\*
- Built in 2 inch hitch receiver.
- Compatible with front camera and sensors (including Adaptive Cruise Control).
- Utilizes OEM shackles.

### REAR BUMPER - DIAMOND PLATE

An aluminum bumper that is full width of the body shall be installed. The bumper shall be constructed of formed rectangular aluminum sheet and shall be fully welded. The bumper shall be mounted to the chassis frame and shall house the OEM back up sensors. The bumper overlay shall be Diamond Plate.

### REAR MUD FLAPS

### RANCH HAND RUNNING BOARDS CREW CAB GM

Ranch hand Running Boards, Part # RCS191C6B6S shall be provided. The finish shall be:

### PLASTIX PLUS CONSOLE

A Plastix Plus Console shall be provided. Plates will be ordered separately based on configuration.

# Stonewell Bodies

## **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 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

# Stonewell Bodies

will include end-chamfering of tube lengths to ensure weld penetration. Additionally, welds shall be no smaller than 3/8" and no larger than 1/2" 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 1/2" 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

# Stonewell Bodies

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**

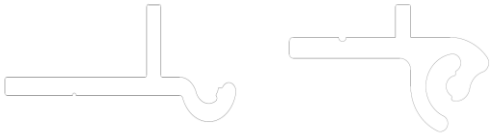
Construction of the CAV side doors shall consist of an interior frame with laminated skin. The exterior portion of the door shall be constructed from 5052 x .090” aluminum. The exterior skin shall be bonded to the door frame utilizing an aluminum adhesive applied under pressure, and 3M brand VHB double 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 a 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 sliding hinge. The hinge shall be water proof and run full length of the roof surface to evenly disperse the



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

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

# Stonewell Bodies

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.

## **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 by the extrusion. This mounting method prevents electrolysis and enables body and chassis flexing. A coil spring and bolt 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**

Hansen 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.

# Stonewell Bodies

## **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 brushed 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

## **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:

# Stonewell Bodies

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 door's 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.

# Stonewell Bodies

## CAV - Interior Compartment Fabrication

### DIVIDER WALL AND T-WALL

There shall be a T-wall 12" from the front bulkhead and a second T-Wall approximately 58" from the front wall. The divider wall is offset to the driver side of the vehicle approximately 33" from the edge of the floor on the drivers side.

### UNDER BODY COMPARTMENTS - DRIVER & PASSENGER

One (1) under body equipment storage compartments shall be installed under the body surface, one each side of the apparatus. The dimensions shall be approximately: 22" wide, 12" high, and 10" deep. The compartments shall be constructed of .90" aluminum on all exterior surfaces. Each compartment shall be equipped with a hinged drop down door. Diesel chassis will have a retaining cable that prevents the door from dropping past horizontal.

### 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 36" 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: One 36" from the front bulkhead and on 48" from front bulkhead.

### FIXED BOLT-IN SHELVES -- 58" wide

Fixed bolt-in 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 shelf shall be 30" D by 58"L and will run form the Passenger side front T-wall to the Passenger side rear T-wall

# Stonewell Bodies

## **ROLLOUT TRAY FOR ICECO Refrigerator-- 36.5" DEEP**

A fabricated rollout tray will be installed in the specified compartments. The shelf will be 36.5”D and 18.5” W. The tray will be located passenger side CAV between front T-Wall and J Wall. The tray surface shall be constructed of .160 smooth aluminum plate, with a 2” lip. The unit shall roll fully out of the compartment, with gas operator or locking device to hold the tray in both the "in and out" positions.

## **DOUBLE STACK STORAGE AREA - TRANSVERSE**

There will be a transverse storage area in the front of the CAV body. There will be a fixed shelf mounted approximately 11.5" above the floor between the front bulkhead and the T-wall. A second shelf will be installed 11.5" above the first shelf.

## **3 DRAWER CABINET - PASSENGER SIDE**

A custom made aluminum drawer cabinet shall be installed between the T-wall and the rear J-wall on the passenger side. The cabinet shall be approximately 10" Wid x 28" deep and shall have a pan shaped top. The drawers shall be open and can be divided as needed Drawer heights to be 6", 7", and 8".

## **ROUND ROCK REAR SEAT MODULE**

A rear seat module will be constructed out of .090 Aluminum. The rear seat module will have a full size electronics area with removable covers. On the driver side there are two shelves for storage, with a light installed. The passenger side will have a console type storage will door and cupholders.. The module shall be powder coated black

## **OFF-ROAD LIGHTS**

Quantity four (4) LED Cube off-road lights will be installed in the front bumper.

# Stonewell Bodies

## **CAV REAR INTERIOR**

### **REAR STORAGE AND COMMAND UNIT & WHITE BOARDS**

The back of the CAV unit shall have one (1) multi purpose command unit installed. The command unit shall be made of .125" 5052-H32 aluminum, where needed, and .090" 5052-H32 aluminum for all drawer and command boards.

The rear facing command unit shall consist of two (2) drawer columns with each column having two (2), drawers. These drawer cabinets shall be separated by a command board with storage space under the board. The drawer columns shall be approximately 7 1/2 " wide x 20 1/2 " tall.

The drive and passenger side command posts shall incorporate 2 drawers each side with an angled command board on each side. The command board shall be approximately 22" Wide x 20 1/2" tall. All drawers to have locking slides to enable the drawers to stay in the open position until manually unlocked. The overall width of the unit shall be 46" across the back side (forward facing) side of the assembly.

The assembly and components shall be powder coated flat black.

A drawing shall be issued for final dimensional and layout confirmation.

## **WHEEL WELL LINER**

A wheel well liner may be added to further protect the underside of the CAV and keep the wheel well area clean and protected. Aluminum mounting flanges shall be welded to the CAV skirt to enable an aluminum liner to be installed. The liner shall be recessed to allow full suspension travel and not restrict wheel rotation.

## **REAR WHEEL FENDERETTES**

The wheel well openings shall be of sufficient opening to permit the utilization of tire chains or other traction devices. Polished stainless-steel 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 threaded stainless-steel hardware and spaced approximately 3/16" of an inch away from the wheel well panel.

# Stonewell Bodies

## **LOW VOLTAGE ELECTRICAL SPECIFICATIONS**

### **BATTERY JUMP START SYSTEM**

The apparatus shall have provisions for connecting jumper cables. The installation shall be internally wired to the 12 volt chassis batteries and terminate with a female receptacle and weather resistant cover. The jumper cables shall be 12' long with a male plug on one end to connect to the plug-in receptacle. The other end shall be configured with a red, positive spring loaded clamp and black, negative spring loaded clamp, with identification label shall be installed. Location of the receptacle shall be : front and rear bumper.

### **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.

# Stonewell Bodies

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. 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

# Stonewell Bodies

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.

## **Requesting Fuse boxes at Center Console and in the Rear Comand pack**

### **ELECTRIC DOOR LOCKS**

Remote actuated door locks. Activates all large body-doors with key fob. Includes installation. Intelligent Dual USB Charging Port, Type 2.0 @ 2.4A, Type-C @ 3A

### **INTELLIGENT USB CHARGING PORT**

An Intelligent Dual USB Charging Port, Type 2.0 @ 2.4A, Type-C @ 3A shall be mounted in the following location: On the command pack.

### **KNOX BOX INSTALLATION**

Wire only.

### **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: \_driver side fender panel forward of rear wheel.\_ Color shall be red.

# Stonewell Bodies

## **LICENSE PLATE BRACKET FRAME**

A Stonewell frame license plate bracket with LED light installed above the frame, shall be provided at the rear of the apparatus and shall be located on the driver side rear of the body, unless otherwise arranged.

## **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**

Five (5) 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, Qty (1) Rear.

## **CEILING LIGHTS TecNiq - CAV BODY**

Six (6) 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.

## **PORTABLE HANDLIGHT**

Two(2) ) Streamlight Model SL-20X portable handlight shall be installed including mounting bracket with 120 volt charger wired to the specified shore power receptacle circuit allowing the light to recharge when not in use.

## **PORTABLE HANDLIGHT**

One (1) Streamlight "Vulcan 180" LED portable handlight shall be installed including mounting bracket, with 12VDC/120VAC charger wired to the specified shore power receptacle circuit allowing the light to recharge when not in use.

# Stonewell Bodies

## **GROUND LIGHT**

A TecNiq E10, 12 volt ground light shall be installed with mounting bracket wired to switch control in cab. There shall be four (4) lights, 2 at the mid CAB 2 at the rear of the CAV body

## **SCENE LIGHTS**

Two (2) Whelen M6 Series Model # M6ZC 4-5/16" x 6-3/4" scene lights with two (2) # M6P15C chrome flanges shall be provided. The warning light shall incorporate Linear Super-LED and Smart LED technology. The lighthouse configuration shall consist of 12 white Super-LEDs and a clear optic polycarbonate lens. The lighthouse shall be surface mountable via two screws. The mounting flanges shall be designed for 15 degree angled direction for increased downward lighting. Location shall be:

## **ICECO VL 75 Pro D Heavy Duty Refrigerator**

A ICECO VL 75 Pro D Heavy Duty Refrigerator shall be installed. The refrigerator can run on 12V or 120VAC power. The refrigerator shall be located: Passenger side left of forward divider wall

## **COMPARTMENT LIGHT SWITCHES**

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

## **"DOOR OPEN" OR EQUIPMENT OPERATION WARNING LIGHT**

A "door open" or equipment operation warning light shall be installed on cab dash. The light shall be a red flashing LED light with a red lens. The warning shall active when the transmission is switched to "driver" and an exterior door has been left in the open position.

## **INSTALLATION - RADIO ANTENNA**

Two(2) radio antenna shall be supplied by the purchaser and installed on the apparatus at a location to be determined by the Purchaser.

## **RADIO SPEAKER**

Four (4) fire radio speaker supplied by the purchaser and installed. Location shall be:

## **RADIO INSTALLATION**

Two (2) fire radio shall be supplied by the purchaser and shall be installed.

# Stonewell Bodies

## **RADIO REMOTE HEAD**

Two (2) fire radio remote head shall be supplied by the purchaser and installed. Price includes radio cable not to exceed 25 feet.

## **HEADSET INSTALLATION, CUSTOMER SUPPLIED**

A customer supplied headset system will be installed. Customer to indicate location of headsets.

## **INTELLIGENT USB CHARGING PORT**

An Intelligent Dual USB Charging Port, Type 2.0 @ 2.4A, Type-C @ 3A shall be mounted in the following location: Center console

## **BACK-UP ALARM**

The vehicle shall be provided with a Whelen model #WBUA112 automatic 97dB (decibel rating) back-up alarm that shall activate automatically whenever the vehicle's transmission is placed into reverse gear. There shall be no back-up alarm cut-off switch, in violation of safety regulations.

## **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.

## **WHELEN HEADLIGHT WIG WAG SSFFP16**

A Whelen Headlight Wig Wag SSFFP16 flasher shall be installed.

## **ELECTRONIC SIREN SPEAKER**

Whelen Model #SA315U, self contained electronic siren speaker bracket.

## **ELECTRONIC SIREN**

Whelen Model C399 - CEN-COM CORE, 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,

# Stonewell Bodies

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.

- Core Siren / Light Controller, Amplifier Control Module, 3 WeCanX Ports, and
- Controls up to 99 Devices/Remote Modules, Control Heads Purchased Separately
- Core Head, Knob Slide Switch
- Core CANport OBDII Interface, 2020+ Ford
- Core External Amplifier Module
- Core Expansion Module, 16 Outputs
- Core Vehicle to Vehicle Module

## **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.

## **Liberty II WCX 54" TRIO Light Bar**

A Whelen Model Liberty B326666 54" TRIO LED Warning and independent control of each Light head, Red, Green and or white shall be installed. The 54" 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 two piece extruded aluminum base/top. The outer shell shall be clear optic polycarbonate lenses designed to maximize light output and shield against environmental elements.

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.

## **ZONE A -- UPPER -- TRAFFIC LIGHT CONTROL**

One (1) Opticom traffic light emitter system and control device shall be installed as specified on the apparatus cab roof.

# Stonewell Bodies

## **ZONE A -- LOWER FRONT WARNING LIGHTS**

Two (2) Whelen M6 Series Model #M6DJ Red/Blue 4-5/16" x 6-3/4" warning lights and a M6FC chrome flange shall be in the front lower area of cab. 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 -- INTERSECTION LIGHTS**

Two (2) Whelen M-Series 3" x 4" warning red lights shall be installed. These shall be M4DJ Red/Blue. The warning lights shall be installed in lower front bumper or cab fenders, one (1) each side, as far forward as possible. The warning lights shall incorporate Linear-Super LED and Smart LED technology. The lighthead shall have six (6) red Super-LEDs with a red non-optic polycarbonate lens for maximum light spread. The lighthead assembly shall have internal flasher eleven (11) Scan-Lock flash patterns, including steady burn and synchronize power functions.

## **ZONE B AND D -- LOWER MID CAB WARNING LIGHTS**

### **WHELEN TRACER WeCanX 6 Module**

Tracer uses enhanced optics to provide dynamic lighting output and control. Lightheads are daisy-chained together in lengths of one to six modules, with each module containing four individually controlled segments for contiguous lighting display and expanded configuration to meet a variety of needs. Upgraded lens design and IP67 rating for dust and water resistance improve performance and durability.

Features Include: Dynamic Variable Intensity (DVI™) light patterns • Vehicle-to-Vehicle Synchronization • Available in SOLO™ (single color), DUO™ (two color interleaved), or TRIO™ (three color interleaved) modules • Command programming allows: • DUO and TRIO modules to operate with a steady override, such as white steady-burn • Full configurability of Traffic Advisor functionality • Adjustable intensity levels of cruise light control • Mounts easily via slide bolt with vehicle specific brackets, universal "L" brackets, or under lightbar brackets • Works with existing Tracer mounting hardware • SAE Class 1 certified • Five-year warranty • Hard-coated lenses resist environmental damage from sand, sun, salt, and road chemical

# Stonewell Bodies

## **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 lighthouse 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 lighthouse shall utilize optic collimators and a metalized reflector for maximum illumination.

## **ZONE B AND D -- LOWER BODY REAR CORNER WARNING LIGHTS**

Two [2] Whelen ION Red Warning Lights. Lower rear corner body warning lights shall be mounted with a chrome flange. The provided warning light shall incorporate Linear Super-LED® and Smart LED® technology. The lighthouse 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 lighthouse shall utilize optic collimators and a metalized reflector for maximum illumination.

## **ZONE B AND D UPPER BODY WARNING LIGHTS**

### **WHELEN TRACER WeCanX 6 Module**

Tracer uses enhanced optics to provide dynamic lighting output and control. Lighthouses are daisy-chained together in lengths of one to six modules, with each module containing four individually controlled segments for contiguous lighting display and expanded configuration to meet a variety of needs. Upgraded lens design and IP67 rating for dust and water resistance improve performance and durability.

Features Include: Dynamic Variable Intensity (DVI™) light patterns • Vehicle-to-Vehicle Synchronization • Available in SOLO™ (single color), DUO™ (two color interleaved), or TRIO™ (three color interleaved) modules • Command programming allows: • DUO and TRIO modules to operate with a steady override, such as white steady-burn • Full configurability of Traffic Advisor functionality • Adjustable intensity levels of cruise light control • Mounts easily via slide bolt with vehicle specific brackets, universal “L” brackets, or under lightbar brackets • Works with existing Tracer mounting hardware • SAE Class 1 certified • Five-year warranty • Hard-coated lenses resist environmental damage from sand, sun, salt, and road chemical

## **ZONE C-- UPPER REAR OF BODY WARNING LIGHTS**

Whelen Rota-Beams shall be installed on the rear bulkhead below the scene lights. There shall be a red rota-beam installed on the driver's side and a blue rota-beam installed on the passenger's side.

# Stonewell Bodies

## **Segmented Traffic Arrow, CAV Rear, Door, (8) SOUND OFF SIGNAL 3 COLOR w/ GREEN**

Sound Off Signal Traffic Advisor consisting of Mpower 8 Light Arrow Kit, includes 12<sup>a</sup> Breakout Box Harness, (1) Breakout Box, (2) Distribution Harnesses and (1) Power/Control Harness with (8) 4<sup>o</sup> Light Modules - NO Mounting Brackets will be provided. The end modules will be Red/Amber/Green for command. Also, the center two modules will be programmed for high stop light. The whites can also be programmed for backup / scene lighting. Configuration of modules shall be: RAG / RAW / RAW / RAW / RAW / RAW / RAW / RAG

## **VICTRON MULTI-PLUS 12/3000/120-50 WITH LITHIUM BATTERY**

A Victron MultiPlus -II 12/3000/120-50 Inverter will be installed. A LiFeP4 lithium 300AH battery will be provided. A Lynx Smart Battery management system will be provided. A Victron GX Touch 50 screen is provided. Qty (2) Orion XS 12/12-50A DC-DC battery charger will be installed. A Victron Cerbo GX MK2 controller and diagnostic panel will be provided. A Victron Battery Switch 275A will be provided. All necessary cabling, fuses, fuse holders, circuit breakers and cable will be provided.

Receptacle, 120V, 20 Amp, Straight Blade (4)

### **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:

### **FIXED WINCH**

A Warn Winch Company 10,000 pound capacity 12-volt electric portable winch shall be provided incorporating a portable mounting system with two carrying handles. The winch shall be attached to the front bumper. Power shall be supplied through a 12 volt direct connection.

### **12V ANDERSON POWER CONNECTIONS**

Two (2) Anderson type 12 volt quick disconnect electrical receptacles shall be installed for the portable winch. Power cables shall be color coded "red" positive and "black" neutral; rated at 125% of winch power requirement including line drop; protected with conduit for mechanical abrasion and equipped with circuit breaker protection at the battery area.

Location shall be: one (1) front of the apparatus and one (1) rear of the apparatus

# Stonewell Bodies

## **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) One Color: HOT CHEVY RED

## **POWDER COAT RUNNING BOARDS**

Running Boards shall be prepped, and if currently powder coated, stripped if necessary and be powder coated. The powder coat color will be color matched to chassis color.

## **POWDER COAT FRONT BUMPER? BRUSH GUARD**

Front Bumper/Brush Guard shall be prepped, and if currently powder coated, stripped if necessary and be powder coated. The powder coat color will be color matched to chassis color.

## **REAR BODY -- CHEVRON STRIPING**

The 50% of rear body surfaces shall have 3M Scotchlite Diamond Grade 6" wide reflective red and fluorescent yellow green. striping installed. The Chevron style stripe shall be applied at a 45-degree angle, pointing towards the center upper portion of the rear apparatus.

# Stonewell Bodies

## **CAV BODY - OUTGOING FREIGHT**

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

## **MOUNTING HARDWARE, NUTS AND BOLTS**

All mounting hardware shall be supplied by Stonewell.