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TAYLOR COUNTY BOARD OF COUNTY COMMISSIONERS

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Squad Proposal

Section I

Taylor County Fire Rescue is soliciting proposals from qualified vendors for the purchase of a fire apparatus (Brush/Squad). Any proposal will be for a new vehicle built to the specifications provided

Section II

Required information

- Qualifications and experience of the vendor
- Detailed specification to show required components and any additional not required in RFP specification, submittal specifications are to be formatted as the proposal.
- Detailed scaled drawing of the proposed completed apparatus
- Acceptance of 100% performance bond
- Project build time from time of completed contract
- Proposed/Maximum cost of build.

Section III Key Dates & Times

Final Deadline for acceptance	10/1/2021 4:00 P.M.
RFP Opening	10/4/2021 6:00 P.M.
Project Awarded (tentatively)	10/19/2021

Section IV Apparatus Minimum Specifications

1 – Chassis Specification

- 1.1 Chassis Ford Super Duty F-600 Single Cab
 - 6.7L Diesel
 - XL Trim 4.88 Limited Slip Axle
 - Medium Earth Gray HD Vinyl Interior
 - Power Equipment Group, Trailer Tow Mirrors
 - Cruise control
 - Electronic Shift On The Fly 4 wheel drive
 - Dual Alternators
 - Dual Battery
 - Pre-Collision Assist with Auto Emergency Braking
 - Skid Plates
 - Privacy Glass
 - Value Package: Cruise Control, AM/FM/CD Player
 - \circ 40 gallon rear fuel tank

- 3" suspension lift including any replacement items required including but not limited to coils, shocks and radius arms
- Toyo M655 245/70R/19.5 tires

2 - Apparatus body, All Aluminum Rescue Module Body Construction Overview

- The body length shall be 12" not including rear bumper
- The body shall be of self-standing rigid cage style construction consisting of the following.
- The body shall consist of seven individual exterior compartments. The body shall be mounted on the before mentioned chassis and shall come with a fifteen-year structural warranty.
- The body shall measurements shall be provided with proposal
- Interior structural members shall be spaced no more than 16 inches on center.
- Apparatus body is purpose built and designed to meet the unique needs and demands of the emergency services environment.
- The body shall be mounted to the chassis with no chassis building be required or permitted.
- All interior of compartments, top of hose bed shall be coated with black PPC material for durability.

2.1 - Roof Construction

• Construction details shall be provided in proposal

2.2 - Roof Radius

• Construction details shall be provided in proposal

2.3 - Corner Radius

• Construction details shall be provided in proposal

2.4 - Rescue side structure

• Construction details shall be provided in proposal

2.5 - Floor Structure

• Construction details shall be provided in proposal

2.6 - Rear Step Construction

• Construction details shall be provided in proposal

2.7 - Compartment Construction

• Construction details shall be provided in proposal

3 - Body Mounting

- The body shall be capable of being removed from and transferred to a new chassis similarly sized to the old chassis.
- There shall be adequate space left between the cab and body allowed for common flexing.
- The body shall be mounted as per the chassis manufacturer's guidelines. Additionally, an isolator shall be installed on each "U" bolt at the "U" bolt mounting point and the structural sill.
- Construction details shall be provided in proposal

4 - Vehicle and Body Appearance and Accessories

4.1 - Roll Up Style Compartment Doors

- Apparatus shall have roll-up doors.
- The doors shall be constructed and installed within the guidelines of the door manufacturer.
- Door tracking shall have rubber lip seal.

- Each door location to be equipped with a magnetic switch to control included interior cabinet lighting.
- Door ajar light to be installed on the console in the cab.
- Each door shall be equipped with one interior light built within the door rail.
- Doors shall be matching color to body.

4.2 - Exterior body trim

- There shall be provided heavy duty blacked out rub rail installed at the lowest edge of the apparatus body between the wheel well panels and the front and rear rock guard shields and kick plates.
- The front of the body shall have provision to prevent damage from items such as rocks.

4.3 - Fenders & Wheel Wells

- The wheel well shall be provided with full fender liners that shall be rolled so as to eliminate pockets that might trap and collect road dirt.
- Fenderettes shall be flexible black rubber for long-term durability.

4.4 - Added Underbody Protection

• None added, standard aluminum

4.5 - Rear Mud Flaps

- There shall be provided (1) set of heavy duty rear mud flaps.
- Mud flaps shall be constructed of thick rubber material and shall be as wide as the rear wheels.
- Mud flaps shall be securely fastened to the module utilizing stainless steel fasteners.

4.6 - Apparatus body painting

- The apparatus shall be two tone paint black over red.
- Exact paint code and layout shall be determined during the pre construction conference.

4.7 - Rear Chevron Striping

- There shall be prismatic reflective striping on the rear of the apparatus body.
- The chevron shall consist of four inch wide red and bright lime yellow stripes to conform with NFPA standards.
- Exact layout and design of rear reflective chevron striping shall be determined during pre construction conference.

4.8 - Reflective / Non-reflective strip package

- There shall be provided reflective striping on the doors visible while open.
- Exact layout and design of reflective stripe package shall be determined during pre construction conference.

4.9 – Graphic / lettering package

- There shall be provided a custom package to match the current fleet.
- Exact wording, layout and location of graphic package shall be determined during pre construction conference.

4.10 - Running Boards

• Running boards installed.

4.11 – Class IV Trailer Hitch

• There shall be provided a class IV trailer hitch which shall be securely fastened to the chassis/body.

4.12 – Bumper / Winch

- The front of the vehicle shall be a provided an aftermarket bumper capable for all lighting, siren, and winch provisions required.
- Warn fixed mounted winch with a 15,000lb capacity
 - \circ Mounted to bumper
- The rear of the vehicle will be provided with a custom bumper independent of the body
 - Rear bumper will also serve as a rear step

5 - Compartment Layout

5.1 - Streetside compartment one (SS1)

- This compartment shall start on the driver side front of the apparatus and shall be approximately from opening 52" high x 50" wide x 23" deep
 - Any alteration to compartment dimensions as needed for items such as wheel base, cab to axle, or water tank shall be indicated on proposal
 - Compartment shall have (1) 120-volt outlet
 - Compartment shall have (2) adjustable shelves
- SS1 compartment will contain an electrical compartment.
- The electrical compartment will house the following.
 - All emergency equipment electronics and wiring.
 - (1) 2,000-watt auto inverter/charger
 - \circ (1) 12 Volt power lead is hardwired through chassis ignition.
 - (1) 12 Volt power lead is hardwired through chassis positive battery.
 - \circ (1) 1 Ground lead hardwired to chassis battery.

5.3 - Streetside compartment two (SS2)

- This compartment shall be located above the wheel well and shall be approximately from opening 32 inches tall x 48 inches wide x 23 inches deep.
 - Any alteration to compartment dimensions as needed for items such as wheel base, cab to axle, or water tank shall be indicated on proposal
- Compartment shall have PAC board type mounting on rear wall for tool mounting

5.4 - Streetside compartment three (SS3)

- This compartment shall be on the driver side rear corner of the apparatus and shall be approximately from opening 52 inches tall x 26 inches wide x 23 inches deep.
 - Any alteration to compartment dimensions as needed for items such as wheel base, cab to axle, or water tank shall be indicated on proposal
- Compartment shall have (2) adjustable shelves.

5.5 - Curbside compartment one (CS1)

This compartment shall start on the passenger side front of the apparatus and shall be approximately from opening 52" high x 50" wide x 23" deep

- Any alteration to compartment dimensions as needed for items such as wheel base, cab to axle, or water tank shall be indicated on proposal
- Compartment shall have (2) adjustable shelves
- Compartment shall have (1) 120-volt outlet

5.6 - Curbside compartment two (CS2)

- This compartment shall be located above the wheel well and shall be approximately from opening 32 inches tall x 48 inches wide x 23 inches deep.
 - Any alteration to compartment dimensions as needed for items such as wheel base, cab to axle, or water tank shall be indicated on proposal
- Compartment shall have PAC board type mounting on rear wall for tool mounting

5.7 - Curbside compartment three (CS3)

- This compartment shall be on the passenger side rear corner of the apparatus and shall be approximately from opening 52 inches tall x 26 inches wide x 23 inches deep.
 - Any alteration to compartment dimensions as needed for items such as wheel base, cab to axle, or water tank shall be indicated on proposal
- Compartment shall have (2) adjustable shelves.

5.8 - Under body compartment "rear access"

• Accessory compartment between the frame rails

5.10 Upper body compartment "Rear access" Streetside

• Compartment to house hard suction hose and be accessible from the rear of the unit.

5.11 - Upper body compartment "Rear access" Curbside

• Compartment to house hard suction hose and be accessible from the rear of the unit.

5.12 - Hose Bed

- Hose bed is open to the rear of the apparatus and of full length of the apparatus. Dimension shall be included in proposal
 - Three end user adjustable dividers hose bed dividers.
 - Hose bed includes a soft cover with a rear weighted flap
 - To be finished in a heavy-duty Rhino Linings black finish.

5.13 – SCBA Wheel Well Compartment(s)

• SCBA bottle or fire extinguisher wheel well compartments shall be located just before and after wheels where not in use by fuel and DEF fill.

6 - Compartment Accessories

6.1 - Adjustable shelves

- Aluminum adjustable shelves shall be provided.
- Each shelf has a full lip surround.
- Shelving mounting hardware shall be of extruded "C" channel design and locking jam nuts.

6.2 – Tool Mounting

- There shall be provisions for mounting tools and equipment not already address to include but not limited to
 - Combi tool
 - Chainsaw
 - Air Bags
 - \circ Hand tools
 - To be confirmed at pre construction conference

6.3 - Compartment floor matting

- There shall be dri-deck or equal, floor tiles installed in compartments
- Tiles shall be custom fitted to the individual area and shall assist in protecting the surface of the compartment from damage.

6.4 – SCBA storage

There shall be mounting brackets for two (2) SCBA, location of brackets to be determined at pre construction conference.

7 - 12 Volt DC electrical system

- The electrical systems and associated equipment shall comply with all federal motor vehicle safety standards, federal motor carrier safety regulations, and shall also conform to all applicable SAE recommended standards and practices.
- The apparatus body and accessory electrical equipment shall be served by circuits separate and distinct from the chassis circuits.
- All wiring shall be permanently color coded and marked to identify each wire.
- Wiring shall be routed in conduit or loom that is rated a minimum 300°F.
- All conduits loom, and wiring shall be located and installed in such a manner that facilitates easy removal and servicing.

8 - Battery Charger / Inverter

- There shall be provided a Xantrex model 807-2055 2,000-watt inverter / 55 amp battery charger with a built-in transfer switch.
 - 120-volt outlets shall be active on shoreline power.
 - 120-volt to be active when shoreline is not present, the vehicle is running and a load is sensed.
- The charging system shall come complete with a remote display operator's panel.
- Included in the system shall be a Kussmaul 15 amp Auto Eject shoreline receptacle that shall provide 120-volt service when activated.

9 - Audible Warning Systems

9.1 - Siren / Light control

• There shall be provided and installed Whelen Cencom Core electronic siren and light control system. Including OBD 2 interface module with truck.

9.2 - Siren Speakers

• There shall be provided (2) each Whelen SA315P 100 watt electronic siren speaker mounted to optimum forward audible output.

9.3 – Mechanical Siren

• A recessed eagle mechanical siren will be installed, control location(s) to be determined at pre build.

10 - Visual Warning systems

- All of the following lightings shall be mounted to the vehicle per the lightbar manufacturer's specification.
- The lighting shall be positioned to provide adequate coverage on all zones of the vehicle.

10.1 - Roof Mounted Lightbar

• 1 ea. 54" Whelen liberty II lightbar (fully populated front and sides) w/ clear lens and red LED, includes flashing white takedowns and alley lights. Cab mounted with vehicle-specific brackets.

- Led alley function shall activate when side cab doors are opened, side specific.
- Light Bar shall have ability to auto dim in night time conditions.
- White warning shall only flash on slider position 3.
- Rear of bar to be depopulated to avoid body reflection.

10.2 - Front of Vehicle

- 4 ea. Whelen M series led w/ clear lens and red led, flush mount flange sized to fit on bumper/ grill guard.
 - The above lighting shall be mounted on the push bumper /grille guard of the vehicle, Final placement to be determined at pre construction meeting.
- Flashing High beam lights (Wig Wag) on slider positon 3.

10.3 - Side of Vehicle

- 2 ea.Whelen M4 series led w/ clear lens and red led, black flange.
 - The above lighting shall be mounted on the truck chassis, front fenders, just after the headlights, before the front wheel.
 - Rivenuts shall be utilized to secure lights to fenders.
- 2 ea. Whelen M7 series led w/ clear lens and red led, black flange.
 - The above lighting shall be mounted on the apparatus body, lower level, centered directly above the rear axle.
- 4 ea. Whelen M9 led w/ clear lens and red led, chrome flange.
 - The above lighting shall be mounted on the apparatus body, upper level, 1 each just after the front edge of body, and 1 each just before of the rear edge of the body.

10.4 - Rear of Vehicle

- (2) Whelen M9RC
 - The above is a red led module with clear lens.
 - \circ (1) each to be mounted at the top of body "rear"
- Custom built arrow stick
 - Whelen T Series Ions (amber)
 - Set to come on flash pattern with warning lights
 - Left, center out, and right arrow control
 - Mounted below hose bed and above hose panel
- The following emergency and DOT lighting below shall be mounted in a Whelen 4 light housing.
- (2) Whelen M6RC
 - The above is a red led module with clear lens.
- (2) Whelen M6BTT Brake/Tail/Turn
- (2) Whelen M6T Amber turn signal sequential chevron arrow
 - Set to flash pattern on third rocker switch
- (2) Whelen M6ZC gradient high output back-up light
 - (1) each M6RC, M6BTT, M6T, M6ZC to be mounted in black four light bezel.

11 - DOT Lighting

- There shall be provided the proper number of LED style ICC / marker lights located on the corners of the apparatus body.
- Stop/Tail/Turn/Reverse lights are previously mentioned.
- Rear markers located on the rear running board.

12 - Scene Lighting

12.1 - Body Mounted Scene Lights

• 4 ea. Whelen PCPSM1B Single Panel, Combination Flood/Spot, Black Flange

- The above lighting shall be mounted on the apparatus body, upper level, 1 ea just after the M9 warning light, and 1 ea just before the M9 warning light, previously mentioned.
- 2 ea. Whelen PCPSM1B Single Panel, Combination Flood/Spot, Black Flange
 - \circ $\;$ $\;$ The above lights shall be mounted on the rear of the apparatus
 - Light shall auto activate in reverse

13 - Accessory Lighting

13.1 - Underbody Lighting

- 8 ea. Tecniq E10 white led underbody lights, stainless bracket.
 - Lighting will provide even coverage on the sides and rear of the vehicle
 - All the above lighting shall be activated automatically when vehicle transmission is placed in park.

13.2 - Accessory Reverse Lighting Control

• The rear scene lights shall activate when the vehicle is placed into reverse.

14 - Drivers/Cab Area Configuration

- The console shall be constructed from .75 inch Birch plywood covered with a heavy duty coating.
- All switches shall be lighted and properly identified. Additionally there shall be provided areas to mount department supplied mobile radio, charger and a computer system along with department maps and clipboard.
- Door Ajar/Telescoping Lights Raised Light Fixed on Console to flash when activated

15 - Reverse Safety Systems

15.1 - Back up alarm

• There shall be provided an automatic back up alarm that activates when the vehicle is placed in reverse.

15.2 - Back up camera

- A rear backup camera will be installed with auto on in reverse.
 - LCD Screen will be located in the rear view mirror area.

16 - Radio Installation Preparation

• Builder will install a mobile radio provided by the buyer

17 - Other vehicle accessories

18 - Fire Pump & Fire suppression

18.1 - Fire Pump & Foam

- CET Skid Unit
- CET 23HP SM-PFP-HPVGD-MR Pump Vangaurd Engine
- Electric start
- Custom fitted aluminum minimum 3 gallon fuel tank
- 15 gallon foam cell
- 12 volt pump for foam filling
 - Hose connection and momentary switch located on pump panel
- Scotty Foam system
- Fire pump to be equipped with a 12 volt primer pump
- 1" Tank fill

- Booster hose reel fitted behind pump panel
 - 150' hose capable
 - Booster hose will be a single red 1" Reel Lite
- There shall be a pump panel fabricated on the rear of the truck
 - Panel shall be PPC'd black
 - All connections will be controlled from the pump panel using fire type valves
 - Pump panel will be equipped with a 12volt exhaust fan to adequately circulate air to prevent the pump from overheating. Fan shall be controlled by the same switch as pump
 - Fire pump exhaust shall be plumbed to exit the vehicle from below.

18.2 - Water Tank

- Apparatus shall have at least 450 gallon capacity poly tank.
 - Unit to have Tank Vision monitor system(s) for water and foam levels viewable at pump panel.
 - Tank should have a built-in section dedicated for foam.
 - Water and foam tanks shall have tower(s) accessible from hose bed.

18.3 - Plumbing

- Priming
 - 12 volt momentary control.
- Discharges
 - \circ (1) 1" tank fill, push pull
 - (1) 1" Rear Booster hose, push pull.
 - (1) 1.5" Pre connect located in hose bed with push pull control
 - \circ (1) 2.5" Rear discharge, push pull control with chrome reducer 2.5"-1.5" and cap.
 - Discharges will be threaded for fire hose type thread pattern
- Intake
 - \circ (1) 2.5" rear suction
 - \circ (1) 2.5" tank to pump, push pull.

18.4 – Hose Bed

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- There shall be a hose bed fabricated overtop the pump and tank module
 - Hose bed shall allow enough clearance for the unit to operate correctly while providing access to the water and foam fill tower(s).

19 - Documentation and Inspections

19.1 - Pre construction conference

- There shall be a required pre construction conference in the selected manner of the department before any construction can begin.
- The pre-construction trip shall consist of up to 2 members from the department. (*Airfare, lodging, and meals are to be included in this specific spec*)
- A tour of the facility including other current builds will be done prior to the pre-construction conference.
- At this meeting both parties shall again go over the specifications to ensure that the apparatus is built to meet or exceed all requirements.
- After this meeting the representative of the manufacturer shall present the department a copy of the written work order to be used in production.

19.2 - Detailed, Scaled Drawings

• After the pre-construction conference, there shall be provided a detailed set of scaled computer drawings to be used in the production process.

19.3 - Pre delivery inspection

- There shall be a pre delivery inspection trip at the facility prior to delivery.
- The inspection trip shall consist of up to 2 members from the department who shall inspect the apparatus to ensure compliance to all specifications. (*Airfare, lodging, and meals are to be included in this specific spec*)

20. - Warranty Information

20.1 - Warranty

• All warranties provided by the vendor or by third party shall be detailed as well as the process for any warranty claim.

21 Delivery / Acceptance

- Upon acceptance at pre delivery inspection the vendor shall be responsible to delivery the apparatus
- At time of acceptance the vendor will provide at least (1)one day of in service training for the entire apparatus operation a service.