

AMBULANCE SPECIFICATIONS

TYPE I GM C4500

170" BOX 72" HEADROOM

2009

OFFICIAL BID PROPOSAL

PLEASE SIGN IN INK, IN THE SPACE PROVIDED. FAILURE TO DO SO WILL RESULT IN A NON-RESPONSIVE BID.

IT IS AGREED BY THE UNDERSIGNED BIDDER THAT THE SIGNING AND DELIVERY OF THIS BID REPRESENTS THE BIDDER'S ACCEPTANCE OF THE TERMS AND CONDITIONS OF THESE SPECIFICATIONS AND, IF AWARDED, THIS BID WILL REPRESENT THE AGREEMENT BETWEEN THE PARTIES.

NAME OF FIRM: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

TELEPHONE:(\_\_\_\_)\_\_\_\_\_

TITLE: \_\_\_\_\_ PRINT NAME: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

FINAL VEHICLE MANUFACTURER: \_\_\_\_\_

TYPE: \_\_\_\_\_

CHASSIS: YEAR: \_\_\_\_\_ MAKE: \_\_\_\_\_ MODEL: \_\_\_\_\_

DELIVERY: \_\_\_\_\_

PURCHASE PRICE: \_\_\_\_\_

TERMS: \_\_\_\_\_

EXCEPTIONS TO SPECIFICATIONS: NO (\_\_\_) YES (\_\_\_)

## SPECIFICATIONS

### 1. Chassis

2009 GMC TC4500 Commercial Cutaway  
166" wheel base with 100" cab to axle  
Duramax Diesel Engine: 6.6L, 300 HP  
Ambulance Prep Package  
16,500 GVW  
California State Emissions  
Underhood air cleaner restriction gauge  
Electric, self-contained, 12v air compressor  
1000 watt, 120v engine block heater  
High idle switch  
Dual 150 amp alternators  
Dual AC Delco, 700 cca 12V batteries  
Engine warning with automatic engine shutdown  
Over the axle, passenger side rear exit exhaust system  
Allison automatic 1000 EVS series 6-speed transmission  
Transynd synthetic automatic transmission fluid  
Auxiliary transmission oil cooler  
Tapered leaf, 7,000 lbs capacity front suspension  
Polished aluminum wheels  
225/70R19.5F Michelin brand tires, premium highway tread  
Front axle – 7000-pound capacity  
Rear axle – 11,000-pound capacity  
Rear axle ratio – 4.88:1 limited slip differential  
Tapered leaf, 11,000 lbs capacity rear suspension  
Rear suspension brackets are bolted to frame in lieu of rivets  
Rear shock absorber  
Rear stabilizer bar  
Spare tire  
Single 40 gallon fuel tank  
Chromed steel front bumper  
Front frame mounted tow hooks  
Deluxe front appearance package  
Dual-note, electric horn  
Factory heat and air conditioning  
Power and driver convenience packages  
Transmission temperature gauge  
Remote, keyless entry  
Ecco back up alarm  
Interior roof lamp  
Tilt steering and cruise control  
Delco AM-FM Stereo Radio with CD  
Electric Remote control, lighted, heated wide-load mirrors with integral convex mirror  
Driver seat-Air suspension, high back with armrest and manual lumbar  
Passenger seat-High back bucket, fixed height with manual back tilt adjuster

2. DRIVER COMPARTMENT:

- A. OEM entry door panels.
- B. Padded head knockers over module entry door.
- C. Lockable sliding window

3. ROOF CONSTRUCTION:

- A. Roof frame structure of 2" x 2" x .125" and 1" x 2" x .125" aluminum tubing forming a grid structure which allows for the routing of the wire harnesses without cutting frame members.
- B. 13" centers
- C. Upper roof extrusions to incorporate a permanent drip molding.
- D. Single piece .125" aluminum roof skin fully welded to the entire circumference of the roof structure
- E. All frame members alloy of 6063-T6.
- F. Certified to static school bus load test standard #001.
- G. 72" interior headroom
- H. Head liner constructed of white gel coated fiberglass with padded cover over center wire race.
- I. .188 roof extrusion designed to interlock with roof skin and side panels. Extrusion alloy to be 6063-T6

4. WALL CONSTRUCTION

- A. Entire module structure to be .125" or heavier aluminum.
- B. Single piece .125" aluminum sheets shall be attached to wall frames utilizing a 3M-brand acrylic bonding system rated at 50,000 psi.
- C. Each wall shall be a fully framed structure as regards compartments, doorways, and the ends of each wall.
- D. All structural frame components to be 2" x 2" or 2" x 3" .125" tube aluminum.
- E. .188" corner extrusions of 6063-T6 aluminum shall interlock each wall unit the entire height of said wall unit, holding the wall skin and the 2 x 2 or 2 x 3 frame in a recess channel. The extrusion and wall shall be skip welded every 4" with a 4" weld the entire height of the wall
- F. 12" centers
- G. Exterior compartment drip rails over all exterior doors.
- H. 15 year structural warranty included with bid, renewable at each remount.
- I. Interior metal .125" aluminum tubes welded to frame for support and attaching of interior cabinets.
- J. 5/8" x 3" metal tapping plates welded to frame for support of installed seat belts and any special applications.
- K. All hardware and fasteners to be stainless steel.

## 5. FLOOR CONSTRUCTION

- A. One piece, seven ply exterior grade,  $\frac{3}{4}$ " plywood floor
- B. Flooring extends full length and width of patient compartment.
- C. Commercial brand floor covering.
- D. Framing of 2" x 2" .250" aluminum tubing and 2" x 4" .250" aluminum channel.
- E. Frame welded to sidewall frames and exterior compartments for strength and durability.
- F. .050" moisture shield between frame and plywood floor
- G. Flooring to extend up side wall 3".

## 6. DOORS

- A. Single side door on curbside with opening of 30" wide by 67" high.
- B. Curbside and rear doors provide unobstructed access to and from patient compartment.
- C. Double rear doors with opening of 49" wide by 56" high.
- D. Upper half of patient compartment doors are covered with a single sheet of "Kydex".
- E. There shall be a removable panel to allow easy access to interior latches on patient compartment doors.
- F. All latches, hinges, and hardware shall comply with FMVSS 206.
- G. All doors to be constructed of a single sheet of .125" aluminum outer panel.
- H. Door frame shall be an aluminum extrusion, slotted to hold the outer sheet and welded to the door frame. The extrusion wall shall be constructed in such a way as to utilize two adhesive backed seals (1 inside door extrusion and 1 inside door frame).
- I. All doors shall be 2.5" thick.
- J. Doors to have full length,  $\frac{1}{4}$ " pin stainless steel slotted piano hinge attached with stainless steel screws. There shall be a moisture barrier applied between dissimilar metals (ECK or equal)
- K. All doors fitted with Cleveland type, cam operated closures with all-thread rod assembly.
- L. All doors fitted with stainless steel, flush fit "paddle" latches with lock.
- M. Entry doors lockable from inside module.
- N. All doors to be fully insulated.
- O. Compartment door panels to be .125" polished diamond tread.
- P. All locking devices to be Eberhard series 400 rotary locks with nader type pins in door frames.
- Q. All entry doors to have single window in upper portion with fixed panes or movable pane with stationary screen.
- R. Curbside entry door step well to be automatically lighted when opened.
- S. Interior, V-shaped handicap type entry door grab handles

## 7. BODY MOUNTING

- A. Dual 5/8" x 3" flat bar bolted through OEM donuts in original factory locations.
- B. Minimum ten (10)  $\frac{1}{2}$ " grade 8 bolts.
- C. No oak sills or any mounting system allowed that might void chassis warranty.
- D. All undercarriage voids to be sealed with approved rubber and silicone sealants.
- E. Under module undercoating per current Federal KKK-A-1822 specifications.
- F. Heat shield

8. EXTERIOR DIMENSIONS:

- A. 170" module length
- B. 98" module width
- C. 93" module height
- D. 72" minimum interior headroom

9. FENDERS:

- A. Fender extensions attached to side panels at wheel wells.
- B. Polished cast aluminum construction bolted on for ease of replacement.

10. REAR BUMPER STEP/TRIM:

- A. Full width construction.
- B. Center section to be aluminum open grate with flip-up.
- C. 2" x 2" x .125" steel tubing and diamond tread construction.
- D. Stainless steel piano hinge with 1/4" pin.
- E. Full length riser kick panel below rear doors and above bumper constructed of diamond tread.
- F. Diamond tread rub rails along lower edge of module skirt.
- G. End cap covers of .125" aluminum diamond tread.

11. AMBULANCE LETTERING AND PAINT:

- A. Federal DOT Ambulance decal package, blue reflective, die-cut and place to specifications.
- B. All exterior surfaces shall be prepared and painted in accordance with current Federal KKK specifications.
- C. 10" Belt line stripe.
- D. Color standards and tolerances to conform with current Federal KKK specifications.

12. SCENE LIGHTS:

- A. Four scene lights, two per side.
- B. Two load lights over rear doors.
- C. One hand held 200,000-candle power spotlight hardwired into system.
- D. Load lights to automatically activate when rear or side entry doors are opened.
- E. Entire system to conform to current Federal KKK specifications.

13. EXTERIOR WARNING LIGHTS:

- A. Eight (8) red halogen lights-two front, two rear, and two each side of module.
- B. One forward facing clear lens halogen light on front of module.
- C. One amber lens halogen light on rear of module centered above rear doors.
- D. Two red halogen grill mounted warning lights.
- E. Two red halogen fender mounted intersection warning lights.
- F. All warning lights to be Whelen or equal.
- G. Primary/secondary function.
- H. Entire emergency lighting system to conform to current Federal KKK specifications.

14. AUDIBLE WARNING EQUIPMENT (SIREN):

- A. 200 watt electronic siren, Southern VP SS-700 or equal with full function, including PA, air-horn, manual, wail, yelp, phaser, and horn override.
- B. Two 100 watt speakers mounted in the bumper.
- C. Horn/siren switch on control panel for siren control through horn ring.
- D. Entire system to conform to current Federal KKK specifications.

15. ELECTRICAL POWER SYSTEM:

- A. Batteries to be OEM.
- B. Wiring looms to be high temperature Packard electric split type.
- C. GXL wiring with function code printed every 6".
- D. All wiring harnesses utilizing machine crimped amp style connectors.
- E. Power Control Panel (PCP) located in exterior lockable compartment (no exceptions).
- F. Power Control Panel to be easily accessible for service.
- G. All load bearing wiring minimum 12 awg.
- H. Wiring installation to be automotive harness design (minimum 3).
- I. Entire system to conform to current Federal KKK specifications.
- J. Automatic reset circuit breakers.
- K. Inverter pre-wiring with switch, cables, and transfer switch.

16. PATIENT COMPARTMENT ELECTRICAL:

- A. Eight (8) dual intensity recessed halogen lights, four over primary patient and four over squad bench.
- B. Two 110 volt A.C. duplex wall outlets – GFI protected with "energized" indicator light and wired to exterior shoreline. One located in the action area and one in the ALS.
- C. Full length, padded wiring harness access panel.
- D. Pre-wired with two medical radio antenna coax cable.
- E. Two 12 volt D.C. outlets on action wall.

17. DRIVER'S CONSOLE

- A. Choice of dash mount, over-head or floor console.
- B. All switches back lighted and permanently labeled.
- C. Lighted paddle type master switch.
- D. Warning light and scene light control switches.
- E. Horn/siren switch.
- F. Door ajar indicator.
- G. Compartment ajar indicator.
- H. OEM electronic auto throttle.
- I. Back-up alarm disable with momentary type switch that resets when reverse is disengaged.
- J. Silent three light intercom, with buzzer.
- K. Patient compartment dome lights.

18. ACTION WALL

- A. Technician switch panel on hinged access door.
- B. Dome light intensity control switches.
- C. Electric suction motor switch.
- D. Power exhaust vent switch.
- E. Silent intercom.
- F. Dual recessed oxygen outlets.
- G. Single recessed suction outlet.
- H. Open work area with suction collection jar.
- I. EMT light with switch.

19. ENVIRONMENTAL EQUIPMENT

- A. High capacity heavy duty three-speed combination heater/air conditioner system conforming to current Federal KKK specifications, Hoseline or equal.
- B. Two vacuum-controlled automatic shut off valves for rear heater hoses
- C. Body sides, roof, and doors to be insulated with R-13 expandable foam.
- D. Electric power exhaust vent in patient compartment with switch at action wall panel.

20. PATIENT COMPARTMENT MEDICAL:

- A. Dual medical oxygen outlets recessed into action wall.
- B. Single Ohio medical oxygen outlet recessed in wall over squad bench.
- C. Rico RS-4X suction system with 12-volt electric pump vented to exterior.
- D. Two IV hooks with restraining straps.
- E. Ferno Washington Model 175-1 cot mount.

21. SAFETY FEATURES:

- A. Padded vinyl door trim panels and head knockers.
- B. All vinyl to be heavy duty type with minimum thickness of .046".
- C. All seat cushions on squad bench and attendant seat are minimum of 3" thick.
- D. Overhead grab rail 80" of single piece construction.
- E. Interior, V-shaped handicap type entry door grab handles
- F. Seat belts bolted to frame structure.
- G. Two "No Smoking" signs.
- H. Two "Fasten Seat Belts" signs.
- I. Certified o2 cylinder retention device.

22. TECHNICIAN SEAT:

- A. Padded high back vinyl seat on pedestal.
- B. Retractable seat belt bolted to chassis structure.

23. SQUAD BENCH:

- A. Split bench lid with hold open device.
- B. Padded full length back rest.
- C. Three sets of retractable seat belts.
- D. Stretcher post and wheel cups in squad bench lids.
- E. Under bench storage.

24. PATIENT COMPARTMENT CABINETS:

- A. Street-side wall cabinets, squad bench, and front wall cabinets to conform to attached drawings.
- B. Cabinetry constructed of  $\frac{3}{4}$ " seven ply plywood covered with  $\frac{1}{16}$ " plastic laminate.
- C. Shelving to be adjustable.
- D. All plexiglass to be  $\frac{3}{16}$ " installed in extruded aluminum frames with replaceable track section.
- E. Door with window between cab and patient compartment.
- F.  $\frac{3}{4}$ " x  $\frac{1}{4}$ " groove and dadoes construction for strength and durability.
- G. All interior cabinets lined with white Formica.
- H. All exposed corners and edges broken with  $\frac{1}{2}$ " radius or chamfer or covered with highly polished trim.

25. SPECIAL FEATURES:

- A. Under module undercoating per current Federal KKK-1822 specifications.
- B. Patient compartment length 160" interior.
- C. Headroom 72" interior minimum.
- D. Pass through at right front exterior compartment
- E. Markings and data plates conforming to current Federal KKK specifications.
- F. Locking drug box.
- G. Three light/buzzer intercom system.
- H. Patient compartment sound level conforming to current Federal KKK specifications.
- I. 15 year module warranty, renewable at remount.

26. EXTERIOR COMPARTMENTS:

- A. #1 - Streetside, 74" H x 21" W x 20" D o2 storage for "H" tank and backboards
- B. #2 - Streetside, 40.5" H x 36" W x 7" D electrical
- C. #3 - Streetside, 31.5" H x 55" W x 20" D
- D. #4 - Streetside, 31.5"H x 39.75"W x 20"D, storage
- E. #5 - Curbside, 74" H x 18" W x 20" D backboard,
- F. #6 - Curbside, 29" H x 19.75" W x 20" D
- G. #7 - Curbside, 74" H x 21" W x I/O access d jump kits, etc. Pass thru
- H. All compartment constructed of .125 aluminum diamond tread
- I. Fully welded seams
- J. All locks keyed alike
- K. Spring loaded hold open devices on #2, #3, #4 and #5
- L. Compartment #4 fully lined with indoor/outdoor carpeting
- M. #7 - right front to contain two adjustable shelves
- N. All compartments to be of the sweep out design
- O. Unistrut tracking for shelves
- P. Compartment #6 to have (1) adjustable shelf