

# KIOWA COUNTY HDTV PRODUCTION TRAILER

## Bid Specifications



### **GENERAL BID SPECIFICATIONS**

03/9/2009

Bid Number #

**INSTRUCTIONS TO BIDDERS**

This specification covers a new, commercially-built, HD Television Production Trailer, herein after referred to as a trailer or commercial trailer. A trailer in compliance with this specification shall be defined as a conventional television production trailer. This trailer shall be in accord with the design criteria of the National Highway Traffic Administration, U.S. Department of Transportation, Washington, D.C..

The purpose of this document is to provide minimum specifications and test parameters for the manufacture of an HDTV Production Trailer that meets the needs and desires of the Kiowa County Media Center Board of Directors. It establishes essential criteria for the design, performance, equipment, and appearance of the trailer. All dimensions listed are given as the approximate sizes required to meet the requirements of the Kiowa County Media Center Board of Directors. The object is to provide a commercial trailer that is in accordance with nationally-recognized guidelines. All vendors and manufacturers must meet all state and local regulations regarding the manufacturing, licensing, and sale of commercial trailers within the state.

This is an engineer-, design-, construct-, and deliver-type of specification and it is not the intention of this agency to write out vendors or manufacturers of similar or equal equipment of the type specified. It should be noted, however, that this specification is written around the specific requirements of the Kiowa County Media Center Board of Directors. With the intent to standardize certain components, certain specific brands have been specified in certain places. This has been done to establish a high standard of quality. Other brands will be accepted, providing the vendor or manufacturer details how another brand will meet or exceed the quality of the actual brand specified. Because of this, the Bid Review Board reserves the right to accept or reject any and/or all bids.

The commercial trailer, chassis, modular body, equipment, devices, accessories, and electronic equipment to be delivered under this contract shall be standard commercial products that meet or exceed the requirements of this specification. The trailer shall comply with all Federal Motor Vehicle Safety Standards (FMVSS) and Federal regulations applicable or specified for the year of manufacture. The chassis, components, and optional items shall be represented in the manufacturer's current technical data. Materials used in the construction shall be new and not less than the quality conforming to current engineering and manufacturing practices. Materials shall be free of defects and shall be suitable for the intended use.

Any exceptions to these specifications shall be clearly pointed out. Otherwise, it will be considered that the items offered are in strict compliance with the written specifications and that the successful bidder will be responsible for delivering a commercial trailer meeting these specifications. Any exceptions shall be marked as such within the body of the bid and explained on a separate page marked "EXCEPTIONS".

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**INFORMATION AND DESCRIPTIVE MATERIAL**

The bidder must furnish all information requested in the space provided on the bid form or on supplemental sheets. The manufacturer also must supply at least one [1] complete set of CAD drawings and detailed explanatory footnotes; descriptive literature; and complete specifications covering the products offered. Bids not meeting this requirement will be considered non-responsive and will be rejected.

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**PRICES AND PAYMENTS**

All bid prices shall be F.O.B. Greensburg, KS, delivered to a location specified by the Kiowa County Media Center Board of Directors. These bid prices shall be complete and include all warranties. Payment shall be made in accordance with these specifications and the Bid Proposal submitted by the Bidder. All bid prices and conditions shall be specified on the bid proposal form. Bid prices shall be valid for at least thirty [30] days from the date of the bid opening or as otherwise specified in the bid proposal form. Full payment will be made when the HD television production trailer is inspected at the manufacturer's plant, found to comply with the procurement specifications, and received in Greensburg, KS.

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**WARRANTY**

A three-year, modular body structural warranty shall be provided. A one-year structural warranty period shall also remain in effect should the modular body be remounted onto a new trailer chassis. This remount must be performed at a Service Center authorized by the original manufacturer.

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**WARRANTY SURETY**

To ensure quality, service, and full compliance to the above warranties, the trailer – with the exception of the chassis – must be constructed by the body manufacturer. Additional elements constructed and installed "in house" are required to ensure service and parts availability. Subcontractors or lease/rental agreements to outside agencies will fail to meet this requirement.

NO EXCEPTIONS WILL BE ALLOWED.

- Does the body manufacturer as the prime contractor construct the modular body?
- Does the body manufacturer as the prime contractor apply paint?
- Are the interior cabinets installed by the body manufacturer as the prime contractor?
- Are the wiring harnesses, circuit boards, H.V.A.C. unit, trailer leveling jacks, and other trailer components assembled, installed, and tested by the body manufacturer as the prime contractor?

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**DELIVERY**

Since delivery proposals by the bidders will weigh heavily in the determination of the bid award, the delivery schedules that are submitted by the bidders shall automatically become binding upon the successful bidder. Delivery delays due to component supply problems or chassis delivery problems to the manufacturer shall not penalize the manufacturer.

Delivery of the completed trailer must be within a maximum of four [4] months from the date of the award of the bid.

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**ANTI-COLLUSION STATEMENT**

By signing this bid, the bidder agrees that their bid is made without any understanding, agreement, or connection with any other person, firm, or corporation making a bid for the same purpose, and that their bid is in all respects fair and without collusion or fraud.

Company Name: \_\_\_\_\_

Bidder Name: \_\_\_\_\_

Bidder Signature: \_\_\_\_\_

Date Signed: \_\_\_\_\_

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**SERVICE FACILITY**

The successful bidder must provide access to a Kansas-based Service Facility. Bidders must list below the nearest Kansas-based Service Facility and parts department to the purchaser in Greensburg, KS. The designated Service Facility shall not be more than 120 miles (2 hours) from Greensburg, KS. The designated Service Facility shall be able to repair all body components and interior support systems such as brakes, HVAC, wiring, trailer leveling system, and other components.

Facility Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Approximate Miles From Purchaser: \_\_\_\_\_

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

**REFERENCES**

All bidders must submit a list containing a minimum of ten [10] customers who are operating a “similar vehicle” as described in this specification. Television production trucks and trailers, as well as emergency management trucks and trailers and communications trucks and trailers will qualify as “similar vehicles.” The customer reference list shall contain the company or agency name, address, contact person, and the contact person’s email address and telephone number.

**Bidder Complies with specification as written** **Yes \_\_\_\_\_ No \_\_\_\_\_**

**QUALITY ASSURANCE**

To ensure the purchaser that proper engineering and production control guidelines have been implemented, the body manufacturer shall employ an integrated quality and process control program, including specific process controls for facets of the manufacturing process deemed to be critical. These critical elements of the process shall be documented and that documentation shall be available, not only to manufacturing personnel, but also to customers who visit the manufacturing facilities to observe their vehicle being manufactured. The critical elements shall be denoted on the quality and process control document which accompanies the trailer through the manufacturing process. A sample of this quality and process control document shall be available to the purchaser upon request. A continuous series of inspections shall be performed and signed off on the quality and process control document, and shall include, but not be limited to, the following:

Conduct a visual inspection of the trailer body, body welds, and exterior attachments.

Conduct a visual and mechanical inspection of the heating/air conditioning lines, cables, grommets, valve connections, clamps, mounting brackets, belts, thermostats, etc.

Conduct a visual inspection of the interior cabinets, also sliding/hinged cabinet doors, drawers, moldings, flooring, walls, headliner, and cushions.

Conduct a visual inspection of the trailer exterior paint, decals, and lettering.

Conduct an operational inspection of all electrical systems of the trailer. This must consist of tests of battery voltage, electrical load tests, alternator output, beacons, flashers, sirens, interior lighting, compartment lighting, power exhaust vents, scene lights, load lights, chassis lights, silent signal lights/buzzers, heat/cool units, and any other optional electrical devices as furnished by the manufacturer. The current requirements of each device tested shall be noted on an inspection sheet, together with the total current requirements.

All trailer fluid levels shall be checked and filled to capacity. All doors, locks, windows, tires, etc., shall be inspected for proper operation and/or condition.

The completed trailer shall be test-towed a minimum of ten [10] miles on paved highways and five [5] miles on rough terrain to check handling, the surge trailer brakes, and noises. The results shall be documented, including any problems that were discovered and how they were corrected.

**Bidder Complies with specification as written** **Yes \_\_\_\_\_ No \_\_\_\_\_**

**SERVICE**

A toll-free number for service requests shall be provided, and this number should be the primary contact with the trailer manufacturer for all service requests. Scheduling, parts information, and technical support shall be available during normal business hours at this toll-free number.

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**TRAINING**

A minimum of two [2] days of field training on site in Greensburg, KS, shall be furnished by the awarded vendor using the company’s in-house service staff. Use of contract employees is not acceptable due to the level of training required for trailer.

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**INSURANCE**

The bidder must provide a minimum of \$1 million per incident, \$2 million aggregate in liability insurance; and \$500,000 in workers’ compensation insurance. A copy of the company’s insurance certificate shall be provided with their bid. NO EXCEPTIONS.

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**CERTIFICATION**

The manufacturer of the trailer shall be a compliant member of the National Association of Trailer Manufacturers. Please submit proof of membership with the bid to verify membership with this organization that certifies each member’s compliance with all applicable Federal standards and regulations, plus accepted industry standards.

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**CRITERIA TO EVALUATE BIDS**

Listed below are the criteria that will be used to evaluate bids by the Kiowa County Board of Commissioners and/or its designee(s). All of these criteria will be included in the decision process so that the Bid Review Board – in evaluating the bids – will be able to recommend a bid that will be in the best interests of the Kiowa County Media Center. The criteria are as follows:

1. Lowest bid.
2. Proposed trailer design, construction details, quality of supplied components, and specifications.
3. Date of delivery. This trailer is a critical element in launching the services of the Kiowa County Media Center, and date of delivery will be considered in the award of the bid.
4. Parts availability and Kansas-based service capability.
5. The length and coverage of the warranties.
6. Rated maintenance and operating data of similar vehicles from the manufacturer.
7. Documented maintenance history of similar vehicles from the manufacturer.
8. Capability of the vendor to supply the trailer required, including quality assurance plan.
9. Number of years in specialty vehicle manufacturing.

10. Documented vendor performance in the areas of:

- a. Responsiveness
- b. Assistance
- c. Training program
- d. Warranty claims

11. References.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

**WITHDRAWAL OF BIDS**

A bidder may withdraw a bid any time prior to expiration of the period during which bids may be submitted by a written request signed in the same manner and by the same person who signed the proposal. No bid may be withdrawn, modified, or otherwise changed once the bids have been opened. It will be assumed that each bidder has thoroughly and completely familiarized themselves with these specifications at the time of the bid. Modifications to a bid, once submitted, will not be permitted. Simply stated, if any item, feature, option, etc. Is not stated in writing in the bidder's proposal, it will not be considered. Bidders are cautioned that verbal or written modifications to already opened bids are neither valid nor considered ethical. The comparison and selection of the winning bid will be based only on what is stated in bidder's written proposal and accompanying scale drawings and documents. THERE WILL BE NO EXCEPTIONS.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

**MANUFACTURING CAPABILITY**

The bidder must indicate the number of years of specialty vehicle manufacturing experience as the same business entity.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

**ENGINEERING CAPABILITY**

To demonstrate the manufacturer's abilities and to demonstrate an understanding of the written bid specifications, each manufacturer must submit with the bid, scale drawings of the trailer it proposes to supply. Drawings shall be "design and construct" drawings that will be used in the manufacture of the trailer. At a minimum, the drawings must show overall dimensions, compartment sizes, lighting packages, and major specified options. The drawings should include the interior floor plan layout and any other elevations to show that the potential contractor understands the scope of the project. The reproduction of the drawings furnished with this bid document will not be acceptable, as each manufacturer utilizes different material sizes and construction techniques. The bidder also must demonstrate the ability to produce drawings in a 3-D rendering. NO EXCEPTIONS.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

**PLANT FACILITY**

To demonstrate a manufacturer's capability, pictures of the interior of the plant facility during production hours shall be submitted. A minimum of four plant photographs and one office photograph shall be supplied. One of the plant photographs must be an overhead view showing facility from the air. The manufacturer must have an active "Lean Manufacturing" program in place, and be able to provide documentation of such program participation if requested.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

**EMPLOYEE STATEMENT**

It is mandated by the United States Government that all employees currently and to be employed during the duration of this contract are not discriminated against because of race, creed, color, sex, national origin and/or disability. Further, this agency must be satisfied that the primary manufacturer's labor pool is treated in a fair and equitable manner. Therefore, it will be the responsibility of the primary manufacturer to include a summary human resource statement outlining employment status, working conditions, and benefits with its bid.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

**PRE-CONSTRUCTION CONFERENCE**

Prior to the beginning of work on the trailer, the successful bidder shall be required to have a pre-construction conference at the site of the manufacturer's choosing with representatives of the Kiowa County KS Commission and/or the Kiowa County Media Center Board of Directors to finalize all the construction details. If the bidder requires the pre-construction conference to be held at a location other than Greensburg, KS, the bidder, at his/her expense, shall provide travel reimbursement, individual hotel rooms, and meals, etc., for two people designated by the Kiowa County KS Commission. If this meeting is to occur at a location more than 300 miles from Greensburg, KS, the transportation shall be by commercial air carrier.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

**FINAL INSPECTION**

Two (2) members of the Kiowa County KS Commission and/or the Kiowa County Media Center Board of Directors and/or its designated representatives will travel to the manufacturer's plant for the purpose of inspecting the trailer upon its completion for compliance with the specifications and for the overall quality of the trailer.

Inspections shall be scheduled and funded to be conducted during weekdays, including travel time.

If the manufacturer's plant is located more than 300 miles from Greensburg, KS, the manufacturer shall provide air transportation on a major commercial carrier to the nearest airport (ground transportation shall not exceed two hours), individual hotel rooms, and meals, etc., for two people.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

## ***HD TELEVISION TRAILER DESIGN AND CONSTRUCTION DETAILS***

### **GENERAL TRAILER DESIGN, TYPE, AND FLOORPLAN**

The HD television production trailer and the associated equipment furnished under this specification shall be the manufacturer's current commercial trailer of the type and class specified. The trailer shall be complete with the operating accessories as specified herein and furnished with such modifications and attachments as may be necessary or specified to enable the trailer to function reliably and efficiently in sustained operation. The design of the trailer and the specified equipment shall permit accessibility for servicing, replacement, and adjustment of component parts and accessories with minimum disturbance to other components and systems. The term "HEAVY DUTY" as used to describe an item shall mean in excess of the usual quantity, quality, or capacity that is normally supplied with the standard production trailer or component.

See accompanying illustrations.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

### **TRAILER MODEL AND TYPE**

The trailer requirement of this specification is a custom-built aluminum body with a steel I-beam floor. The trailer is a pull-tongue trailer equipped as follows:

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

### **TRAILER FRAME**

#### **MAIN TRAILER FRAME**

The main trailer frame shall be constructed of 6" x 2" x ¼" rectangular steel tube frame rails, fully undercoated for rust protection.

#### **HITCH FRAME**

A minimum of three (3) 6" x 2" x ¼" rectangular steel tube rails shall be welded into an A-frame assembly to form the hitch. The hitch frame shall be attached to the main frame rails and a minimum of three frame cross-members.

#### **CROSS MEMBERS**

The trailer chassis cross members shall be of high strength, tensile steel 3" I-beam material, with clipped ends and coated to prevent galvanic corrosion.

#### **AXLES**

A total of two (2) Dexter Torflex axles shall comprise the trailer suspension, size to be determined by the trailer's gross trailer weight rating. Both axles shall be equipped with electric brakes and EZ lube hubs.

#### **TIRES AND RIMS**

A total of five (5) LT235/75R 16 LRD BSW highway tires shall be provided and mounted on powder-coated MOD wheels (including one spare).

#### **WHEEL COVERS**

A total of four [4] Phoenix or equivalent stainless steel wheel covers shall be provided and mounted.

**SPARE TIRE**

The spare tire and wheel shall be suitably mounted on either the exterior front or rear wall of the trailer.

**HITCH**

A suitable 2-5/16" surge brake coupler with the appropriate weight rating, with safety chains and breakaway switch, shall be installed.

**BUMPER**

The rear trailer bumper shall be constructed using 3" C-channel and covered with ADP Tread plate. It shall be a minimum of 12" wide.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

**TANDEM AXLES**

The trailer shall be furnished with two Dexter Torflex axles or equivalent, size to be determined by the trailer's gross trailer weight rating. Electric brakes shall be installed on both axles. Dexter axles are specified due to the nationwide availability of parts. The trailer hitch shall incorporate a surge braking mechanism to activate the electric brakes.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

**BODY CONSTRUCTION CHARACTERISTICS**

The trailer body shall be approximately 258" long and 102" wide. The trailer body shall be completely designed and manufactured in-house, and shall be constructed of aluminum components. All body panels, structures, and extrusions shall be fabricated of aluminum, using alloys consistent with the load requirements of the trailer and capable of carrying the maximum payload allowed by the axles. All framing and structural supports shall be welded in accordance with the current standards set forth in the American Welding Society Code. The trailer main frame rails shall be rectangular steel tubing, size dependent on the GVWR of the trailer. The trailer cross members shall be 3" high tensile strength steel I-beams on 16" centers at a minimum. The A-frame hitch shall be of the same material as the main frame and include a third center reinforcing beam. A suitable 2-5/16" A-frame coupler shall be installed on the trailer. The trailer hitch shall be of sufficient capacity and incorporate a surge braking mechanism to activate the tandem axle electric brakes.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

**TRAILER BODY**

The trailer body shall be constructed of .063 pre-painted, hardened aluminum coil stock. The body skin shall be blind "buck-riveted" on a minimum of two-inch centers to create a smooth body side for graphics installation. The 1.5" x 1.5" vertical wall structural members shall be placed 16" on center at a minimum, and the body skin shall be attached with high-quality VHB tape.

The vertical corner posts shall be a custom-extruded, five-inch radius section designed for module body construction, with 12" horizontal upper radius with cast aluminum corner caps. The corner caps shall have an integrated recessed area for clearance lights.

The top rails shall be a custom structural extruded aluminum shape that incorporates an integrated mounting surface for the roof attachment outside of the body structure. The inside of

the extrusion shall have an integral mounting surface for the module body roof members. It also must include a recessed area for clearance light protection.

The rear vertical corner posts shall be a custom-extruded, one-inch radius section designed for module body construction, with a matching horizontal one-inch radius section matching the vertical posts, with cast aluminum corner caps to tie the assembly together.

The lower body rails shall be a custom extrusion designed to attach vertical wall members and body skin to the chassis frame. The lower body rails also shall include an integrated interior surface to seal flooring and vertical walls on all four sides of the trailer.

All exposed aluminum corner posts, roof extrusions, and lower body extrusions shall be highly polished to a bright, lustrous finish.

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**BODY HARDWARE**

All body hardware and all compartment and entry doors shall be mounted on the module body. All stainless screws shall be sprayed in electrolysis preventive solution before installing on the module body. This is necessary to prevent future electrolysis. NO EXCEPTIONS WILL BE ALLOWED.

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**I-BEAM TRAILER FRAME FLOOR STRUCTURE**

The trailer shall have a 3" I-beam frame floor structure with main members all being fully welded and gusseted. This framework is to be mounted using rubber gaskets to prevent the contact of dissimilar metals. The steel I-beam framing shall be 16" on center on an average.

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**TRAILER FLOOR**

A metal subfloor shall be installed on top of the trailer frame. Then a 3/4" plywood subfloor shall be installed on top of the metal subfloor. The 3/4" plywood sheets shall be securely fastened to the 3" steel I-beams with sheet metal screws long enough to penetrate both the steel subfloor and the 3" steel I-beams. A 1/4" underlayment substrate shall be installed over the 3/4" plywood to create a smooth, level surface for the vinyl flooring. This construction process shall create a sandwich effect to provide long-lasting durability and a solid surface.

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**INTERIOR TRAILER FLOOR COVERING**

The interior trailer floor shall be covered with a general purpose, fire-retardant, flexible, all-vinyl PVC flooring material formulated for good oil resistance. The flooring material shall meet all safety regulations per Federal Motor Vehicle Safety Standard No. 302 at a minimum. The flooring material shall meet GM 9070P flammability test DNI {Does Not Ignite} which denotes that the flooring material does not support combustion during or after ignition. The flooring material shall meet Ford specification BO 116-03 (interior vehicle applications). The flooring material shall not contain any asbestos or lead. The flooring material shall have a coefficient of friction (COF) that exceeds the ADA requirements for ramps. Data on the flooring material shall be provided as part of the bid documentation.

**Bidder Complies with specification as written**

Yes \_\_\_\_\_ No \_\_\_\_\_

**INTERIOR HEADROOM**

Inside the body of the trailer, the interior ceiling shall be flat, providing 90" minimum of interior headroom, with the exception of the area above the raised 6" floor area (where the minimum headroom shall be 84"). The interior of the trailer body shall be free of obstructions for the occupants' safety, and shall meet or exceed all Federal and State of Kansas transportation and regulatory requirements.

**Bidder Complies with specification as written**

Yes \_\_\_\_\_ No \_\_\_\_\_

**INTERIOR COMPARTMENT WALLS**

The interior compartment walls of the entire trailer shall be constructed of custom "Z" extrusions measuring 1.5" x 1.5", with 1.5" high-density, polystyrene insulation in the walls. The walls shall have an external skin of .063 pre-painted, hardened aluminum coil stock, and an internal skin of .090 aluminum. The interior walls shall be covered with 3/8" plywood fastened to the 1.5" x 1.5" vertical wall structural members. The interior walls shall be finished with a custom composite automotive-quality material with sound-deadening properties.

**Bidder Complies with specification as written**

Yes \_\_\_\_\_ No \_\_\_\_\_

**INTERIOR DIVIDER WALL**

An interior divider wall shall be installed between the front video work area and the rear audio work area. There shall be an aluminum passage door between the areas approximately 32" wide x 78" high, with a clear, double-pane window approximately 12" x 24". The interior passage door shall be of a sound-insulating, solid-core design.

**Bidder Complies with specification as written**

Yes \_\_\_\_\_ No \_\_\_\_\_

**INTERIOR CEILING HEADLINER**

The interior ceiling headliner in the trailer shall be covered with a high-quality, automotive ceiling composite headliner material with sound-deadening properties. The headliner shall be backed with a substrate material of 3/8" plywood. The headliner material shall be properly bonded to the substrate to prevent sagging.

**Bidder Complies with specification as written**

Yes \_\_\_\_\_ No \_\_\_\_\_

**WALL AND CEILING INSULATION – POLYSTYRENE**

The trailer shall have 1.5" high-density, polystyrene insulation in the walls and ceiling, providing an insulation factor of R-9. The insulation shall be fire-retardant, non-settling, non-hydroscopic, and mildew- and vermin-proof.

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**ADDITIONAL CEILING INSULATION – ASTROFOIL**

Additionally, the trailer ceiling shall be insulated with 3/8" Astrofoil bubble insulation or the equivalent.

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**DUCT AREA BETWEEN INTERIOR CEILING AND ROOF**

The trailer shall have an interior ceiling height between the floor and the interior ceiling of 90" minimum, with the exception of the area above the raised 6" floor area, where the interior ceiling height shall be 84". There shall be a duct area between the top of the interior ceiling and the bottom of the supporting roof frame members and roof insulation of the trailer measuring a minimum of 6" in height, running the full length and width of the trailer.

This duct area will provide space for installing insulated air ducts to duct the air from the air conditioning/heating unit throughout the trailer. This duct area also will provide space for installing separate cable channels which will run the length of the trailer in both directions from the equipment racks located in the center area of the trailer.

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**CABLE CHANNELS LOCATED IN THE CEILING DUCT AREA**

The video, audio, and telecommunications equipment to be installed in the HD television production trailer will be interconnected via cables installed above the interior ceiling in the cable channels running the length of the trailer in both directions from the equipment racks located in the center area of the trailer. Access to these cable channels shall be provided above the equipment racks located in the center area of the trailer. Provisions shall be made to bring cables down from the cable channels above the interior ceiling to equipment mounted on the front and rear bulkheads of the trailer, as well as to equipment mounted on the three workstation countertops.

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**TRAILER ROOF – TRANSLUCENT**

The trailer roof shall be constructed of a one-piece, .075" translucent fiberglass roof panel with a woven roving edge. The roof material shall have a tensile strength of 90 MPa at a minimum and a Barcol hardness of 45 per ASTM D2583 standards. The roof panels must meet FMVSS Standard #302. The supporting roof frame members shall have a minimum of 1" curvature to prevent pooling of water, and be chemically bonded to the roof skin. For this reason, flat roofs will be considered unacceptable.

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**ROOF OBSERVATION DECK AND ACCESS LADDER**

A walk on roof shall be installed on the trailer. It shall as a minimum have 1" roof bows on 16" centers and be covered with .375" plywood decking panels. The roof bows shall be designed to

maintain a minimum of 1" curvature when the roof decking and roof panel are installed. Over these panels shall be placed a translucent refrigerated van roof with a knobby textured finish for traction.

The observation deck shall be provided with folding protective side rails on all four sides. The protective side rails shall be constructed of 1.5" x 1.5" square tubing, with .125 wall thickness. The protective side rails shall lock in the vertical position, and be hinged to allow for fold-down storage. The protective side rails shall be designed in such a manner as to not interfere with the deployment of the WiMAX antenna mounted on a hand-operated, telescoping mast at the rear of the trailer.

Access to the observation deck shall be provided by a permanent ladder with handrails affixed to the rear wall of the trailer on the curbside. The handrails at the top of the ladder shall extend above the actual roof of the trailer a sufficient amount to provide safe access to the observation deck. If necessary, a flip-down extension to the bottom of the ladder shall be provided to provide easy access to the observation deck.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

**ENTRY DOORS**

The entry door frame assemblies shall be heavy-duty, extruded aluminum frames with an anodized finish. The entry door frames shall have a continuous hinge with polymer bushings. The hinge system shall comply with FMVSS 206 and CMVSS 206. The entry door frames shall have a sloped seal to promote drainage. The seals shall be large, continuous automotive type. An automotive-style lock with an integral dead bolt shall be utilized. The entry doors shall be 32" wide x 78" high. Each entry door shall be of a sound-insulating, solid-core design, with a clear, double-pane window approximately 12" x 24".

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

**PIVOTING, FOLD-OUT ENTRY STEPS**

Pivoting, fold-out entry steps shall be installed that are able to be deployed to facilitate ingress/ egress into the trailer through the curbside entry doors. The pivoting, fold-out steps shall deploy perpendicular to the body of the trailer. The pivoting, fold-out steps shall be of aluminum and/or stainless steel construction, with diamond plate stair treads with a static coefficient of friction (COF) of 0.70 wet and 0.80 dry, and/or powder-coated steel covered with an anti-slip surface. The pivoting, fold-out steps shall support a minimum of 350 pounds static load. The width of each stairway shall be approximately 36 inches. The depth of the tread of the pivoting, fold-out step shall be 8 inches ± .25 inch. The riser height of the pivoting, fold-out step shall be 8 inches ± .25 inch. See accompanying illustrative photographs.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

**ENTRY HAND RAILS**

Both doorways shall be equipped with a folding handrail on the open side of each entry door that can be deployed from the ground or by a person inside the trailer body before ingress/ egress from the trailer. The contractor shall modify the handrail, if required, to insure it extends to the end of stairs in the deployed mode. The railing shall be capable of supporting 350 lbs. static load without collapse.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

**ENTRY DOOR-MOUNTED GRAB RAIL**

An exterior style, stainless steel grab rail shall be installed at a 45-degree angle on the interior side of both entry doors of the trailer. This grab rail shall be bolted to the aluminum structure members of the entry door with fender washers and rubber gaskets. A grab rail mounted to the door skin is unacceptable.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

**FENDERETTES**

Fenderettes shall be provided at each wheel well. They shall help prevent damage to the underside of the body caused by stones and road debris. The fenderettes shall be highly polished to match the corner extrusions.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

**LICENSE PLATE HOLDER AND LIGHT**

The rear license plate holder shall be a recessed, polished, cast aluminum fixture with a tag light incorporated into the design.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

**UNDERCOATING**

Undercoating shall be liberally applied to the entire undercarriage of the chassis and trailer body. Undercoating shall be applied according to OEM chassis manufacturer guidelines.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

**TELESCOPING, HAND-OPERATED ANTENNA MAST**

There shall be a telescoping, hand-operated antenna mast mounted on the exterior rear wall of the trailer capable of supporting an Airspan Networks external building antenna to be used for the WiMAX wireless broadband system. The mast and antenna shall not protrude above the top of the trailer when in the stored position. The mast and antenna and the observation deck railings shall be able to be deployed independently without interfering with each other. The telescoping, hand-operated antenna mast shall extend a minimum of 10 feet above the observation deck floor.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

**TRAILER AUTOMATIC LEVELING SYSTEM**

The trailer shall be equipped with an automatic leveling, four-cylinder Quadra Touch Pad Bigfoot leveling system, with a capacity of 17,000 lbs to 25,000 lbs per cylinder. The ram diameter on each folding cylinder shall be 1-1/4", and the foot pad size shall be 100 square inches. The complete system weight shall be between 190 lbs and 240 lbs, and be 12-volt DC powered. The leveling system shall have a fully automatic control panel, capable of being switched to manual operation. The hoses shall be rubber flex line with JIC fittings. The battery cables delivering electric power to the four leveling mechanisms shall be UL-approved, plastic-coated, four-gauge cable.

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**H.V.A.C. EQUIPMENT**

The trailer shall be furnished with a front-mounted, 3.5-ton air conditioner with a 5 KW heating coil. The air conditioner unit shall be a 230-volt AC, single phase unit, and shall include a barometric fresh air damper, a one-inch replaceable air filter, twin blowers, and a scroll compressor. The case of the air conditioner shall have a baked-enamel finish over galvanized steel with a polyurethane primer.

The heating/air conditioning unit shall be entirely controlled from the interior by a wall-mounted, programmable thermostat, located in the front video work area.

The conditioned air from the unit shall run in insulated ducts installed in the duct area located between the interior ceiling and the roof of the trailer. Adjustable ceiling vents throughout the trailer shall provide proper conditioned air distribution. The insulated air ducting shall not drop below the flat interior ceiling. A return air grill shall be installed along the front bulkhead of the trailer at the floor level, feeding an insulated return air duct. The insulated return air duct shall not protrude into the interior space of the trailer.

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**AUDIBLE ALARM SYSTEM**

A 12-volt, DC-powered security system with an externally-mounted siren shall be installed, complete with door, intrusion, and shock sensors. The security system shall include a main control system with a wall-mounted control panel located on the curbside interior wall near the front entry door. The security system shall include six [6] five-button, random-code wireless remote transmitters (fobs) capable of arming and disarming the security system. The security system shall include an externally-mounted, high-output, six-tone siren, door switches, and dual-stage shock sensors. It shall have an LED status notification system and a coded valet switch.

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**FIRE EXTINGUISHER**

Three (3) five-pound, ABC-rated fire extinguishers with mounting brackets shall be furnished with the trailer. These shall be shipped loose so they can be installed at a later time.

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**CARBON MONOXIDE MONITORS**

Two [2] 9-volt battery-powered carbon monoxide monitors shall be installed on the ceiling of the trailer – one in the front video area and one in the rear audio area.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

**SMOKE DETECTORS**

Two [2] 9-volt battery-powered smoke detectors shall be installed on the ceiling of the trailer – one in the front video area and one in the rear audio area.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

**OPERATOR'S MANUAL**

A trailer owner's manual (reference handbook) for the trailer shall be provided in an 8 1/2" x 11" three-ring, hard-cover, loose-leaf binder. It shall contain copies of the chassis manufacturer's warranties and owner's manual, copies of the body manufacturer's warranties and operating/ service instructions, component manufacturer's equipment information, installation, operating, service instructions, warranties, etc.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

**TRAILER EXTERIOR BELOW-FLOOR STORAGE COMPARTMENTS**

**STREETSIDE EXTERIOR STORAGE COMPARTMENTS FORWARD OF WHEEL WELL – D1 AND D2**

Two streetside lockable, lower storage compartments shall be provided below the floor in the forward area ahead of the wheel well. The D1 transverse storage compartment shall have the approximate dimensions as follows: 42" wide x 14" high. The D1 transverse storage compartment shall have a solid, flush-mounted, top-hinged door constructed of aluminum. The D1 transverse storage compartment intersects with the P1 transverse storage compartment.

The D2 storage compartment shall have the approximate dimensions as follows: 48" wide x 14" high. The D2 storage compartment shall have a solid, flush-mounted, top-hinged door, constructed of aluminum. The D2 storage compartment is approximately opposite of the pivoting, fold-out stairs for the curbside forward entry door.

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**STREETSIDE EXTERIOR STORAGE COMPARTMENTS REAR OF WHEEL WELL – D3 AND D4**

Two streetside lockable, lower storage compartments shall be provided below the floor in the rearward area behind the wheel well. The D3 storage compartment shall have the approximate dimensions as follows: 42" wide x 14" high. The D3 storage compartment shall have a solid, flush-mounted, top-hinged door constructed of aluminum. The D3 storage compartment is approximately opposite of the pivoting, fold-out stairs for the curbside rearward entry door.

The D4 transverse storage compartment shall have the approximate dimensions as follows: 36" wide x 14" high. The D4 transverse storage compartment shall have a solid, flush-mounted, top-hinged door, constructed of aluminum. The D4 transverse storage compartment intersects with the P4 transverse storage compartment.

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**CURBSIDE EXTERIOR STORAGE COMPARTMENTS FORWARD OF WHEEL WELL – P1**

One curbside lockable, lower storage compartment shall be provided in the forward area ahead of the entry/egress door. The P1 transverse storage compartment shall have the approximate dimensions as follows: 42" wide x 14" high. The P1 transverse storage compartment shall have a solid, flush-mounted, top-hinged door constructed of aluminum. The P1 transverse storage compartment intersects with the D1 transverse storage compartment.

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**CURBSIDE EXTERIOR STORAGE COMPARTMENTS REAR OF WHEEL WELL – P4**

One curbside lockable, lower storage compartment shall be provided in the rearward area behind the entry/egress door. The P4 transverse storage compartment shall have the approximate dimensions as follows: 36" wide x 14" high. The P4 transverse storage compartment shall have a solid, flush-mounted, top-hinged door constructed of aluminum. The P4 transverse storage compartment intersects with the D4 transverse storage compartment. (There are no P2 or P3 storage compartments on the curbside of the trailer because of the pivoting, fold-out stairways for the two entry doors.)

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

03/9/2009

Bid Number #

**EXTERIOR STORAGE COMPARTMENT FABRICATION**

All lockable, exterior storage compartments shall be constructed of MIG-welded 12-gauge steel walls, 12-gauge steel ceilings, and 12-gauge steel floors. Exterior compartments shall be welded to the floor structure components for strength and durability. All exterior storage compartment doors shall be equipped with a gas-charged, hold-open door check.

The D1-P1 and the D4-P4 transverse storage compartments shall have completely unobstructed pass-through from either side.

**Bidder Complies with specification as written**

Yes \_\_\_\_\_ No \_\_\_\_\_

**EXTERIOR STORAGE COMPARTMENT DOORS**

Each top-hinged, exterior storage compartment door shall be constructed of .125" 5052H32 aluminum sheet double pan formed with a 1.5" return bend with recessed offset supporting the .063" 3003 alloy aluminum diamond plate interior liner. Extruded doors and/or doorframes are not acceptable. In addition, for maximum rigidity, 2.375" "C" channel bracing shall be added internally to provide additional structural integrity to the door. The exterior face of the door and the door edges shall be formed from one [1] sheet of aluminum. All doors shall be flush with the body side, and shall be fully insulated with sheet Styrofoam insulation.

When opened, the top-hinged doors will activate their respective compartment lights. All exterior storage compartment doors shall be equipped with a gas-charged, hold-open door check. All compartment doors shall be keyed alike. (See separate description of storage compartment lighting.)

**Bidder Complies with specification as written**

Yes \_\_\_\_\_ No \_\_\_\_\_

**EXTERIOR STORAGE COMPARTMENT DOOR HINGES, HANDLES, AND LATCHING**

Door hinges on each top-hinged, exterior storage compartment door shall be full-length steel hinges with a 1/4" stainless pin and shall be fastened to the door and door frame with rivets. The locking mechanism shall be a D-Ring style. Latches shall be near flush with the door skin. Each latch shall be capable of being locked independently with an exterior key lock.

**Bidder Complies with specification as written**

Yes \_\_\_\_\_ No \_\_\_\_\_

**EXTERIOR STORAGE COMPARTMENT DOOR SEALS**

For optimum fit and closure, the top-hinged, exterior storage compartment doors shall close on a .625" W x .400" thick automotive bulb gasket attached to interior surface of the double pan-formed storage compartment doors. The gasket seal shall be attached to this surface to prevent exposure of the compartment to water or dirt when the door is closed.

**Bidder Complies with specification as written**

Yes \_\_\_\_\_ No \_\_\_\_\_

## **TRAILER INTERIOR COMPARTMENT COMPONENTS**

### **CABINERY**

All interior trailer cabinets shall be constructed of 100-percent aluminum panels, aluminum extrusions, and steel fasteners for weight reduction, corrosion resistance, and a high strength-to-weight ratio. The cabinets shall be specifically designed for installation in custom trailers.

Drawers shall be of all-aluminum construction. The drawers shall be fully integrated into the cabinet with no visible frame or surrounding box for an aesthetically-pleasing, quality professional finish. The drawers shall feature full-width, extruded pull handles and integrated self-latching mechanisms allowing one-hand unlocking and opening along the entire width of the pull handle. Drawer slides shall be all-steel, double-carriage, ball-bearing, full-extension slides capable of supporting 250 lbs loading per drawer. Slides shall disconnect for ease of drawer removal.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

The cabinets shall be constructed of all-aluminum sheet metal 5052 – H32 alloy. The aluminum extrusions shall be prime billet 6063-T5 or T6 alloy, architectural surface quality. All principle walls shall be no less than .090” thick. Where stainless steel is used, it shall be a minimum of 304 stainless steel alloy with a #4 brushed finish.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

All fasteners shall be zinc-plated stainless steel, or aluminum. All nuts shall be Nyloc / Spin Lock self-locking nuts. Assembly bolts shall be custom flat head carriage bolts for ease of assembly and disassembly. Cabinets shall be designed so that individual components can be easily replaced. Rivets of any type are not to be used in any interior cabinet construction.

Cabinet latches shall be cast zinc with a polyester powder-coat finish. The latches shall be a single-motion latch that can be operated with one hand. Hinges shall be continuous-extruded, all-aluminum staked hinges. Shelf brackets shall be zinc-plated steel and be able to be placed across from each other on both sides of a panel in the same mounting slots via self-mating brackets.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

All cabinet sheet components shall be coated with a baked-on, polyester powder coat. Cabinet door backs shall be pre-finished, coil-coated aluminum. The finish shall be UV- and scratch-resistant. The extrusions shall receive a 204-R1 Class 2 Architectural clear anodized finish.

The cabinet frames shall be fabricated from .090 wall extrusions, with square cut and coped ends. Door hinges shall be secured to the cabinet frame with self-locking nut and bolt hardware. Cabinet frames shall be pre-punched, with all required assembly and mounting slotted holes. All sheet components shall be CNC-punched from new sheet material. Doors shall be formed to a 1” thickness from a single sheet of aluminum. The overhead and wall cabinet sheet material shall be .063” thick. The base and closet cabinet sheet material shall be .080’ thick. All cabinet doors shall have .040” pre-finished aluminum sheet back continuously bonded to the face sheet with VHB structural bonding tape. Overhead doors shall have a mechanical folding, hold-open mechanism. All doors shall have full-length pivoting handles with self-latching, independently-sprung latch mechanisms.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

All drawer sheet components shall be CNC-punched from new sheet material. Drawers shall be .080" aluminum construction with welded corners. Drawers shall be encased in a .080" aluminum insert case designed to mount into the cabinet face and integrated with no visible frame around drawers. Drawers shall have full-width, extruded aluminum pivoting handles with dual self-actuating latches to provide for single-handed operation. The exterior drawer finish shall be powder-coated/anodized to match the surrounding cabinets.

The end and center cabinet panels shall be .063" aluminum sheet for overhead and wall cabinets, and .080" thickness for closet and base cabinets. All punching, drilling, and forming shall be done prior to finishing. All cabinet components shall be CNC-punched for consistency. All cabinets shall be provided with a mounting feature perimeter. All cabinet panels shall be finished on all exposed surfaces, inside and outside, after fabrication. Shelves shall be constructed of .090" mill aluminum, and all sides shall be hemmed over to prevent sharp edges from being exposed. Shelves must include adjustable mounting brackets and securing screws. Shelf slots shall be punched in side panels. NO EXCEPTIONS.

**Bidder Complies with specification as written** **Yes** \_\_\_\_\_ **No** \_\_\_\_\_

**FRONT BULKHEAD OVERHEAD CABINET**

An overhead storage cabinet approximately 16" high x 96" wide x 12" deep with eight equal-width doors and 10" open speaker compartments on either side shall be installed above the work area on the front bulkhead of the trailer. The cabinet shall be provided with one (1) full-compartment, adjustable shelf behind each pair of doors, plus two extra shelves with brackets. The cabinet doors shall have a full-length, aluminum pull handle on each door. Overhead cabinets shall have a minimum of 2" radius edges and corners for occupant protection. See illustrations.

SPECIAL NOTE: These cabinets shall have a "Dry Erase finish" exterior surface on all cabinet doors.

**Bidder Complies with specification as written** **Yes** \_\_\_\_\_ **No** \_\_\_\_\_

**COUNTERTOP CONSTRUCTION**

All countertops shall be industrial-grade laminate, bonded to 3/4"-thick, exterior-grade particleboard, and appropriately trimmed out.

**Bidder Complies with specification as written** **Yes** \_\_\_\_\_ **No** \_\_\_\_\_

**FRONT BULKHEAD VIDEO WORKSTATION**

A video workstation shall be installed at the front of the trailer. A full-length countertop running the width of the trailer shall be installed on the front bulkhead of the trailer. The countertop shall be approximately 29" high, 36" deep, and 96" wide. See illustrations.

**Bidder Complies with specification as written** **Yes** \_\_\_\_\_ **No** \_\_\_\_\_

**FRONT STREETSIDE GRAPHICS/VIDEO DISPLAY WORKSTATION**

A streetside graphics/video display workstation shall be installed behind the front bulkhead video workstation area. See illustrations.

The streetside graphics/video display workstation shall be placed on a raised platform approximately 6" above the regular floor height. The exposed vertical sides of the 6" floor platform shall be covered with the same material as the walls of the trailer. The floor of the raised platform shall be covered in the same material as the floor of the trailer.

The countertop base shall be fabricated from aluminum "Z" extrusions and be covered with 3/8" plywood and noise suppression panels. The countertop shall be approximately 29" high from the raised platform, with a full-length countertop approximately 24" deep x 64" wide. See illustrations.

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**EQUIPMENT RACKS**

There shall be two (2) 19" x 75" (approximately) equipment racks installed between the audio and video work areas. The curbside end rack shall be equipped with an aluminum panel designed to seal the end of the cabinet. Cabinets shall be vented for the dispersion of heat from the equipment.

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**EXTERIOR I/O CABLE CABINET**

An exterior Input/Output (I/O) cable compartment shall be installed in the streetside wall of the trailer adjacent to the equipment racks to allow camera, fiber optic, telephone, and other cables to be plugged into the trailer. The I/O compartment shall have a top-hinged, water-tight exterior access door fitted with a gasket. The back of the I/O compartment shall be adjacent to the equipment rack space. The exterior door of the I/O compartment shall be approximately 12" wide x 36" high, with a clear opening of those dimensions. The exterior door of the I/O compartment shall be equipped with gas struts to hold it in the open position. The I/O cabinet shall be equipped with a switched, interior 12-volt DC light in the top of the cabinet (not mounted on the door).

Three (3) four-inch round conduits shall extend downward from the bottom of the I/O compartment and exit the bottom of the trailer to provide cable egress into the I/O compartment. The conduits shall be capable of being capped to prevent water and debris from entering the I/O cabinet when the trailer is in motion.

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**REAR BULKHEAD OVERHEAD CABINET**

An overhead storage cabinet approximately 28" high x 24" deep x 66" wide with four equal doors shall be installed above the audio work center in the rear of the trailer and shall be provided with one (1) full-compartment, adjustable shelf behind each door, plus one extra shelf with brackets. The doors shall have a full-length, aluminum pull handle on each door. The overhead cabinets shall have a minimum of 2" radius edges and corners for occupant protection. See illustrations.

SPECIAL NOTE: These cabinets shall have a "Dry Erase finish" exterior surface on all cabinet

doors.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

**REAR AUDIO WORKSTATION**

An audio workstation shall be installed at the rear of the trailer. A workstation countertop shall be installed in the audio work center measuring approximately 29" high x 36" deep x 66" wide. See illustrations.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

**REAR CURBSIDE STORAGE CABINET**

A curbside storage cabinet shall be installed in the audio work center at the rear of the trailer. The entire cabinet shall be approximately 90" high x 30" wide x 36" deep, and shall be divided into two sections.

The upper section shall be approximately 48" high x 30" wide x 36" deep. The upper section shall be equipped with double doors and two (2) full-compartment, adjustable shelves. The doors shall have full-length aluminum pull handles on the doors.

The lower section shall be approximately 42" high x 30" wide x 36" deep. The lower section shall be equipped with double doors and two (2) full-compartment, adjustable shelves, plus one extra shelf with brackets. The doors shall have full-length aluminum pull handles on the doors.

These curbside storage cabinets shall have radius edges and corners for occupant protection.

SPECIAL NOTE: These cabinets shall have a "Dry Erase finish" exterior surface on all cabinet doors.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

**RACKMOUNT RACK CASE SYSTEM**

There shall be four [4] Rm-4190U standard 19" EIA rack mount rack systems furnished and installed. One [1] 4U rack system is to be installed in the front video area and three [3] rack systems are to be installed in the rear audio area as shown in the accompanying illustrations.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

***TRAILER POWER, WIRING, AND LIGHTING***

**GENERAL TRAILER WIRING REQUIREMENTS**

All insulated electrical cable shall conform to SAE J1292 requirements and shall have type SXL high-temperature thermoplastic insulation conforming to SAE J1127 and J1128. All wire shall be of a gauge size to carry 125% of the current required without overheating. Where practical, all wires shall be routed in high-temperature looms with a rating of 300 degrees Fahrenheit. All conductors shall be annealed copper with machine crimps. Wiring harnesses shall be assembled and warranted by the trailer manufacturer.

All 115-volt AC wiring shall be three-wire, fully tinned, 12-3 or 14-3 stranded-copper, round safety boat cable approved by Underwriters Laboratories [UL Listed 1426]. The safety color coding of black, white, and green conductors shall be found inside of a white jacket, with non-wicking fiber fillers to maintain a round shape. The approved cable shall be UL-listed boat cable 600V, with a 105C temp rating and meet all approvals from ABYC and the United States Coast Guard. All 115-volt AC wiring cable shall meet all D.O.T. requirements.

NO EXCEPTIONS WILL BE ALLOWED.

**Bidder Complies with specification as written** **Yes** \_\_\_\_\_ **No** \_\_\_\_\_

**ELECTRIC CONTROL CENTER**

A dedicated electrical control center cabinet shall be used to house the electrical components. Solenoids, relays, and circuit breakers shall be behind a door and shall be mounted securely to the inside of the electrical control center cabinet. The electrical cabinet door shall hinge out of the way for free movement and for ease of maintenance and repair, shall have a latch to secure the door, and be large enough for complete and unobstructed inspection. Ample venting shall be supplied.

**Bidder Complies with specification as written** **Yes** \_\_\_\_\_ **No** \_\_\_\_\_

**WIRING INSTALLATION AND PROTECTION**

Wires shall be grouped and/or harnessed where practical. Metal edges through which cables pass shall be protected with nonmetallic bushings or grommets. All auxiliary circuits shall be wired separate and distinct from the trailer chassis circuits. All wire passing from the console head shall be encased in a heavy-duty loom. All wiring shall be clipped or otherwise attached at suitable intervals to prevent rubbing or chafing due to wire movement, vibration, etc.

**Bidder Complies with specification as written** **Yes** \_\_\_\_\_ **No** \_\_\_\_\_

**ELECTRICAL EQUIPMENT**

All electrical equipment shall be electromagnetic radiation suppressed, filtered, and shielded to prevent interference to radio and telemetry equipment. The RFI shall not exceed SAE J551 limits.

**Bidder Complies with specification as written** **Yes** \_\_\_\_\_ **No** \_\_\_\_\_

**GENERAL 12-VOLT DC EXTERIOR TRAILER LIGHTS (BRAKELIGHTS, CLEARANCE LIGHTS, ETC.)**

Exterior trailer lights shall conform to FMVSS 108 and consist of LED ICC clearance lights with integral brush guards, license plate lights, tail, stop, and backup lights. Taillights and stoplights shall have red, clear, and amber lenses. Electrical wires for the taillights shall be sealed to protect them from the elements of weather. A standard trailer power cable shall be fitted to provide 12-volt DC power to these lights from the tow vehicle.

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**12-VOLT DC BATTERY – MAIN**

There shall be one (1) Optima "No Maintenance" 12-volt main battery mounted in a separate, lockable battery compartment located below the floor of the trailer.

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**12-VOLT DC BATTERIES – AUXILIARY**

If required, one or two auxiliary Optima "No Maintenance" 12-volt batteries shall be provided to power lights and equipment in the trailer. If provided, these batteries shall be mounted in the same lockable battery compartment located below the floor of the trailer that contains the main battery.

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**INTERNAL 12-VOLT DC POWER**

Where specified, all internal 12-volt DC power circuits shall accommodate appropriate amperage based on capacities, with separately-protected circuits. Circuit protection shall be accomplished by the use of manual breakers mounted in the master control panel. A master disconnect switch shall be installed for the 12-volt DC system.

DUE TO THE POTENTIAL DANGER ASSOCIATED WITH A SEPARATE "BATTERY HOT" CIRCUIT, NO EXCEPTION TO THE ABOVE WILL BE ALLOWED.

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**CIRCUIT BOARD 12-VOLT DC PANEL**

The 12-volt DC circuit board panel shall be housed in a heavy-duty, .125" H5052 aluminum alloy housing and face. The housing and face shall have a two-part polyurethane slate gray finish. It shall have countersunk mounting holes throughout. All positive, negative, and grounding buses shall be installed. Panels with meters shall include a toggle switch for monitoring up to three (3) battery banks. All panels shall be equipped with 12-volt DC analog meters. All circuit label positions are to be backlit. There shall be an "ON" indicator LED light installed in all circuits.

**Bidder Complies with specification as written** Yes \_\_\_\_\_ No \_\_\_\_\_

**BATTERY CONDITIONER/CHARGER**

A 45-amp, 115-volt AC-powered taper charger shall be included and wired into the shoreline power to keep all 12-volt DC batteries and 12-volt DC equipment charged.

**Bidder Complies with specification as written**

Yes \_\_\_\_\_ No \_\_\_\_\_

**INTERIOR TRANSIT LIGHTING – 12-VOLT DC**

Four 12-volt DC lighting fixtures shall be installed in the interior of the trailer; two lighting fixtures in the front video area; one in front of the interior passage door; and one in the rear audio area. Two, three-way switches shall be installed to control these four 12-volt DC lighting fixtures, one switch on the curbside interior wall adjacent to each of the two curbside outside entry doors.

**Bidder Complies with specification as written**

Yes \_\_\_\_\_ No \_\_\_\_\_

**EXTERIOR SCENE LIGHTS – 12-VOLT DC**

The trailer body shall have six (6) Whelen 12-volt scene lights, Model 810, installed 6" below the roof line. There shall be two (2) on the street side, two (2) on the curb side, and two (2) on the rear, evenly spaced approximately 12" in from the corners of the trailer. These lights shall be individually switched from a switch panel mounted on the curbside interior wall adjacent to the forward curbside outside entry door.

**Bidder Complies with specification as written**

Yes \_\_\_\_\_ No \_\_\_\_\_

**EXTERIOR STORAGE COMPARTMENT ILLUMINATION – 12-VOLT DC**

Each exterior storage compartment shall be lighted with one or more 12-volt DC dome lights. The D1-P1 and the D4-P4 transverse storage compartments shall each be lit with three dome lights. The D2 and D3 storage compartments shall each be lit with a single dome light.

These lights shall have Lexan clear lenses and be recessed into the compartment sides and/or ceiling, located in standard positions.

Each compartment door shall have an individual automatic switch that turns on that compartment's light(s). In the case of the D1-P1 and the D4-P4 transverse storage compartments, opening the compartment's door on either side shall turn on all three lights. In the case of the D2 and D3 storage compartments, opening the compartment's door shall turn on that compartment's light.

Each automatic switch shall be mounted in the door frame for both maintenance-free operation and to provide protection from the weather.

**Bidder Complies with specification as written**

Yes \_\_\_\_\_ No \_\_\_\_\_

**115-VOLT AC POWER**

A 115-volt AC wiring system shall be furnished. A three-wire system is to be used for powering all equipment, battery chargers, etc.. The 115-volt AC system shall incorporate GFI devices with 15-amp circuit breakers. These circuit breakers shall provide the capability to be used as disconnect switches for the exterior 115-volt AC outlets. When an inverter is supplied, an automatic transfer switch shall be furnished which will turn off the inverter's 115-volt AC supply when the AC utility shoreline power is connected.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

### **EXTERIOR SHORE POWER**

There shall be a 230-volt AC twist-lock male plug rated at 50 amps with a friction-assisted cover assembly, UL-listed for exterior use, located on the streetside of the trailer approximately 5' up from the ground. This connector shall energize the trailer's 230-volt AC circuit from an exterior power source. This connector shall be labeled: "230-Volt AC, 60 Hz, 50-Amp Power Supply".

Suitable, 25' and 50' UL-listed shore power cables that will interconnect the trailer to a 230-volt AC, 60 Hz, 50-amp power source shall be provided.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

### **AC LINE POWER CONDITIONER**

An AC line power conditioner shall be furnished to protect the audio and video circuits from voltage spikes. The AC line power conditioner shall be designed for use with sensitive electronic equipment.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

### **115-VOLT AC CIRCUIT BOARD PANEL**

The 115-volt AC circuit board panel shall be housed in a heavy, .125" H5052 aluminum alloy housing and face. The housing and face shall have a two-part polyurethane slate gray finish. It shall have countersunk mounting holes throughout. All hot, neutral, and safety ground buses shall be installed and fully pre-wired. There shall be "ON" indicator LED lights installed in all circuit positions. All circuit label positions are to be backlit. The panel shall have MIL-C-5541C or equivalent immersion undercoating for lifetime corrosion resistance. The circuit board shall have a maximum panel amperage of 50 amperes. There shall be a minimum of six [6] circuits furnished at each rack system.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

### **EXTERIOR 115-VOLT AC OUTLETS**

There shall be five (5) three-wire, duplex 115-volt exterior AC receptacles. There shall be one [1] receptacle mounted on the rear wall and two [2] receptacles mounted on each side of the trailer, one at the front and one at the rear. There shall be LED indicator lights located within each 115-volt AC outside receptacle to indicate a live "hot" circuit. Add-on style indicators are not acceptable. The receptacles shall be clearly labeled: "115 VAC". These circuits shall incorporate GFI devices with 15-amp circuit breakers that also can be used as a disconnect switch for the exterior 115-volt AC outlets.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

### **INTERIOR 115-VOLT AC OUTLETS**

There shall be a minimum of five (5) three-wire duplex 115-volt AC interior receptacles mounted above the countertops. There shall be three [3] 115-volt AC receptacles located in the front video area, one [1] 115-volt AC receptacle located adjacent to the streetside graphics/video display workstation area, and one [1] 115-volt AC receptacle located in the rear audio area on the streetside of the countertop. Each 115-volt AC interior receptacle shall have its own 15-amp circuit breaker. There shall be LED indicator lights located within each 115-volt AC outlet to

indicate a live "hot" circuit. Add-on style indicators are not acceptable. The receptacles shall be clearly labeled: "115 VAC".

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

**INTERIOR 115-VOLT AC POWER STRIPS**

There shall be three (3) 115-volt AC power strips installed at the workstations. They shall have duplex outlets located approximately every 12" to 15". Each 115-volt AC power strip shall have its own 15-amp circuit breaker. These 115-volt AC power strips shall be mounted approximately one inch BELOW the workstation countertops. See illustrations.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

**INTERIOR 115-VOLT AC LIGHTS**

Five, 8' 115-volt AC lighting tracks shall be installed on the trailer's ceiling. The metallic tracks shall be installed with a power cap at one end and a dead end cap at the other end.

Two, dual-circuit, 8' lighting tracks shall be installed adjacent to each other in the front video area behind the first row of chairs and parallel to the front wall of the trailer to illuminate the video workstation area. Four variable switches shall be installed above the countertop; two switches on the streetside wall of the trailer, one switch centered on the front wall, and one switch on the curbside wall of the trailer.

One dual-circuit, 8' lighting track shall be installed just in front of the divider wall in the front video area parallel to the front wall of the trailer to illuminate the streetside graphics/video display workstation area. Two variable switches shall be installed above the countertop on the streetside wall of the trailer. It may be necessary to shorten this lighting track to clear the lighting track running parallel to the side wall of the trailer (described immediately below).

One single-circuit, 8' lighting track shall be installed parallel to the side wall adjacent to the equipment rack area. This lighting strip should be forward of and centered on the interior passage door. Two, three-way switches shall be installed to control this lighting track, one switch on the curbside interior wall adjacent to each of the two outside entry doors. It may be necessary to shorten this lighting track to clear the two lighting tracks illuminating the front video area in the trailer (described two paragraphs above).

One dual-circuit, 8' lighting track shall be installed in front of the equipment racks in the rear audio area parallel to the rear wall of the trailer to illuminate the audio workstation. Two variable switches shall be installed above the countertop on the streetside wall of the trailer.

There shall be nineteen [19] 115-volt AC lighting track fixtures provided. The individual light fixtures shall have the ability to be positioned on the track, select the appropriate circuit, aimed, and dimmed (from the variable wall switches).

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

**EXTERIOR 115-VOLT AC RED "ON AIR" BROADCAST LIGHTS**

Two [2] red "ON AIR" lights shall be mounted on the curbside exterior wall of the trailer adjacent to each entrance door on the side of the door that opens approximately 5' up from the floor level of the trailer. The pair of "ON AIR" lights shall be controlled by a single wall-mounted switch placed on the streetside wall of the front video workstation in the video area of the trailer. The

switch shall have a red LED indicator light that indicates when the switch is on.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

**INTERIOR TELEPHONE JACK RECEPTACLE BOXES**

There shall be five receptacle boxes containing six [6] Cat-6 telephone jacks installed throughout the trailer. See illustrations.

The first receptacle box containing six [6] Cat-6 telephone jacks shall be installed in a centered position on the front wall of the trailer above the front video workstation countertop. The second and third Cat-6 telephone wiring boxes shall be mounted on the streetside and curbside interior side walls of the trailer above the front video workstation countertop.

The fourth Cat-6, six-jack receptacle box shall be installed on the streetside interior side wall adjacent to the streetside graphics/video display workstation area above the workstation countertop.

The fifth Cat-6, six-jack receptacle box shall be installed on the streetside interior side wall of the trailer adjacent to the rear audio workstation area above the workstation countertop.

**Bidder Complies with specification as written**

**Yes \_\_\_\_\_ No \_\_\_\_\_**

# Kiowa County Board of Commissioners

## BID FORM

NAME OF BIDDER: \_\_\_\_\_

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

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

TELEPHONE: \_\_\_\_\_

PERSON TO CONTACT: \_\_\_\_\_

We herewith submit and bid as follows:

TRAILER MAKE: \_\_\_\_\_

MODEL/TYPE: \_\_\_\_\_

F.O.B. POINT: GREENSBURG, KANSAS \_\_\_\_\_

DELIVERY/CALENDAR DAYS: \_\_\_\_\_

BID IS: \_\_\_ AS PER SPECIFICATION TAKING NO EXCEPTIONS (check box)

BID IS: \_\_\_ TAKING ONLY THOSE SPECIFICATION EXCEPTIONS (check box)  
LISTED, ATTACHED AND REFERENCED TO PARAGRAPH

It is agreed by the undersigned bidder that the signature and submission of this bid represents the bidder's acceptance of all terms, conditions, and requirements bid specifications and, if awarded, the bid will represent the agreement between the two parties.

SIGNED: \_\_\_\_\_ DATE: \_\_\_\_\_

NAME PRINTED: \_\_\_\_\_ TITLE: \_\_\_\_\_

\*NOTE: All variations and/or exceptions shall be listed on the attached pages by page and paragraph number from specifications and explained in detail. Failure to so list the exceptions will disqualify the bid.





**Illustrative materials accompanying this bid document:**

1. HDTV production trailer floorplan, and front and rear wall elevations.
2. Photograph of folding entry stairs.