

Request for Proposal

Auditorium Renovation Project

Exhibit C – Addendum One

Section 27 40 00 – Theatrical Audio-Video Systems

PART 1 GENERAL

1.1 WORK INCLUDED

- A. The Contractor, as part of the work of this section, shall provide, install and test a complete audio-video control system as specified herein for areas indicated on the drawings and circuit schedules.
- B. The Contractor shall furnish, wire, connectors, hardware and other incidental items necessary for the complete and proper operation of the audio-video control system.
 - 1. Contractor is responsible for coordinating with District Electrician on all conduit runs.
 - 2. All boxes for system are responsibility of contractor to coordinate, contractor will include box design in submittals.
- C. The Contractor shall coordinate all work described in this section with all other applicable plans and specifications, including but not limited to:
 - 1. General Conditions
 - 2. Electrical Section General Provisions
 - 3. Conduit
 - 4. Wire and Cable
 - 5. Stage Rigging
 - 6. Stage Lighting
- D. Shop Drawing Submittals:
 - 1. Within sixty (60) days of contract award, the Contractor shall submit one (1) copy in PDF format of all shop drawings in PDF format to the respective parties for approval prior to fabrication:
 - a. Complete, fully dimensioned shop drawings of all major components.
 - b. Plans, sections and schematics indicating assembly and installation of components.
 - c. Load ratings of the major components within the system.
 - d. Interface Box Design
 - e. Any additional structural support supplied and installed by this contractor.
 - f. Specific listing of any and all variations from the Drawings and Specifications.
 - g. Power requirements for any electrical components.

1.2 SYSTEM DESCRIPTION

- A. The system shall be designed for the control of architectural and theatrical audio-video.
- B. System shall work in conjunction with specified low-voltage control stations.

1.3 SUBMITTALS

- A. Contractor shall provide 1 set of full system submittals in PDF format. Submittals shall include:
 - 1. Equipment list
 - 2. Equipment rack(s) elevation layout
 - 3. Conduit riser and box schedule with floor plan
 - 4. Block diagram(s) including wire types and labels Contractor shall provide any additional information, including equipment demonstration, as required by the engineer or specifier to verify compliance with specifications.

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1.4 QUALITY ASSURANCE

A. System Integrators

1. All equipment and installation shall be the responsibility of a single system integrator, or subcontractor, who shall own and operate his own full time shop for the assembly and installation of stage equipment.
2. Bid submissions must identify any such subcontractors.
3. The contractor, or subcontractor, shall have at least 10 years experience in the installation of similar stage equipment and systems. If requested, the contractor or subcontractor shall submit a representative list of installations during the above period.
4. Subject to the above requirements, work performed under this section may be by one of the following listed integrators.
 - a. Arrow Audio, Appleton WI
 - b. Clear Wing Productions., Milwaukee, WI
 - c. Peak Systems Group, Reedsburg.
5. Contractors meeting the above requirements will be considered with prior approval. Forward request to respective parties at least ten working days prior to bid date.
6. The approved System Integrator will hereby be referred to as the Stage Audio-Video Contractor.

B. Manufacturers

1. See Individual Categories in Products for Acceptable Manufacturers
2. Basis-of-Design Product: The design for each audio-video is based on the product named.
3. Alternatives
 - a. Subject to compliance with requirements, provide either the named product or a comparable product by one of the other manufacturers specified.
 - b. Alternative manufacturers must submit a full pre-approval package ten days prior to bid date.
4. The manufacturer shall be one who has been continuously engaged in the manufacturer of audio-video control equipment for a minimum of ten years.
5. Proposed equipment shall be UL and C-UL listed, and/or CE marked (where applicable) and bear the appropriate labels

PART 2 SCOPE

2.1 General

A. The contractor must provide a design build price with the following criteria.

1. Digital Network Audio System
 - a. System must be controlled DANTE.
 - b. System must interface with the lighting control system.
2. Production Intercom System
 - a. System must allow for 8 individuals.
3. Production Amplified Audio System
 - a. System must provide coverage of entire auditorium.
 - b. System must provide for audio in dressing rooms, control booth, and ADA hearing assist.
 - c. System must provide ability for paging of production areas
4. Architectural “Easy Mix” Control System
5. Production Control Interface Devices
 - a. System must have the ability to be controlled from:

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- 1) Center Mix Position
 - 2) Second Floor Control Booth
 - 3) Stage Left
 - 4) Stage Right
 - b. System must have inputs for microphones at:
 - 1) Downstage Right
 - 2) Downstage Left
 - 3) Upstage Right
 - 4) Upstage Left
 - 5) Apron Edge Left
 - 6) Apron Edge Right
 - 7) Ceiling For Hanging Mics
 - c. System must have output for monitors at:
 - 1) Downstage Right
 - 2) Downstage Left
 - 3) Upstage Right
 - 4) Upstage Left
 - 5) Apron Edge Left
 - 6) Apron Edge Right
- B. Owner Specific Product Requests
1. These products are preferred basis of design products, contractor should provide explanation if these deviations from these products are included in the proposal
 2. Control Console:
 - a. Allen and Heath SQ7 with (2) Dante Digital Snakes
 - b. iPad 10.7" Loaded to Wireless Control System
 3. Wireless Microphones
 - a. (16) Shure QLX Wireless Microphones with Receivers, Belt packs and Wig Mics
 - 1) Provide alternate pricing for 8 Handheld SM58 Microphones only.
 4. Monitor Speakers
 - a. (4) QSC K8 Active Monitors

PART 3 EXECUTION

3.1 Installation

- A. It shall be the responsibility of the Contractor to receive and store the necessary materials and equipment for installation of the audio video system. It is the intent of these specifications and plans to include everything required for proper and complete installation and operation of the audio video system, even though every item may not be specifically mentioned. The contractor shall deliver on a timely basis to other trades any equipment that must be installed during construction.
- B. The contractor shall be responsible for field measurements and coordinating physical size of all equipment with the architectural requirements of the spaces into which they are to be installed.
- C. The contractor shall install all audio-video control equipment in accordance with approved shop drawings.

3.02 Contractor Services

- A. Upon completion of the installation, including testing of all signal runs, the contractor shall notify the district that the system is ready for a formal punch of system
- B. Upon completion of the formal check-out, the contractor shall demonstrate operation and maintenance of the system to the owner's representatives. Training shall not exceed four working hours. Additional training shall be available upon request.

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3.03

WARRANTY

- A. Contractor shall warrant products under normal use and service to be free from defects in materials and workmanship for a period of two years from date of delivery.
- B. Warranty shall cover repair or replacement of such parts determined defective upon inspection.
- C. Warranty does not cover any product or part of a product subject to accident, negligence, alteration, abuse or misuse.
- D. Warranty shall not cover any labor expended or materials used to repair any equipment without prior written authorization.

END OF SECTION