



Platte County R-3 School District

Gym Sound System
Barry Middle School

Request for Proposal (RFP)

January 14, 2020

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Notice to Bidders

The Platte County R-3 School District wishes to obtain bids for Sound System Upgrades at Barry Middle School gymnasium.

The Platte County R-3 School District will receive sealed proposals from Bidders until Thursday, March 5 at 2:00pm., at which time, the bids received will be opened. The Platte County R-3 School District reserves the right to reject any or all bids and to waive informalities or irregularities in bids.

Each sealed bid shall contain Bid Proposal, e-Verify and Bidders Qualification; forms for each are attached to this RFP.

Bids shall be in sealed envelopes labeled:

**Platte County R-3 School District
Gymnasium Sound System Upgrades at
Barry Middle School
Mr. Jay Harris
Executive Director of Operations
Platte County R-3 School District
District Education Center
998 Platte Falls Road
Platte City, MO 64079**

Bids received after the time and date above specified shall be returned, unopened, to the Bidder.

Any questions related to this RFP or bid requirements please contact:

Mr. Jay Harris
816.858.5420 ext 2119 harrisj@platteco.k12.mo.us

All questions regarding the RFP or the bid documents must be submitted by Monday, March 2, 2 p.m. No other questions will be answered after this date and time.

Substantial Completion Date July 24, 2020

AUDIO VIDEO SYSTEMS

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes audio systems for amplifying sound signals from sources such as microphones and media players and distributing and reproducing them on loudspeakers. The audio system serves the following areas:
 - 1. Gymnasium.
- B. Refer to the Contract Drawings for plans and notations showing audio video (AV) systems work.

1.2 SCOPE OF WORK

- A. Work under this section shall include the furnishing of all labor, materials, tools, equipment, transportation, services, etc. and supervision to complete the installation of the audio system and other items as herein listed, all as described in these specifications, as illustrated on the accompanying drawings; or as directed by the school district. Work is comprised of, but not limited to, the following principal items:
 - 1. Install a new audio system as described in this document and the drawings.
 - 2. The gym shall have an audio reproduction system intended for support of sporting events, assemblies, and light production. The system shall act as a single audio zone. This system shall have an emphasis on ease of use.
 - 3. The contractor shall remove and dispose of all existing equipment from the rack. The existing installed loudspeakers may be abandoned in place; however, new speaker cable shall be installed for the new speakers. The existing conduit/path may be reused.
 - 4. All required labor and hardware shall be included. Contractor is required to provide fully functional systems. Any additional equipment required for system functionality not shown in this document are still the responsibility of the contractor to provide.
 - 5. The winning contractor will be required to employ the services of a structural engineer to stamp proposed suspended rigging.
 - 6. Provide system commissioning; including writing dsp files, control system files, tuning loudspeakers, etc. Final source code shall remain property of the client.
 - 7. All user interfaces (GUI's and other) shall be approved by the end user prior to system programming. Allow for minor functionality adjustments post training.
 - 8. Provide system training (minimum of 2 hours) and attend the first major system usage.
 - 9. Provide a 1-year warranty covering parts and labor.

1.3 DEFINITIONS

- A. Channels: Separate parallel signal paths, from sources to loudspeakers or loudspeaker zones, with separate amplification and switching that permit selection between paths for speaker alternative program signals.
- B. Zone: Separate group of loudspeakers and associated supply wiring that may be arranged for selective switching between different channels.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Shop Drawings: For equipment cabinets and racks, and components. Include plans, elevations, sections, details, and attachments to other work.
 - 1. Shop drawing submittals shall include, but not limited to, product data/specification sheets for all equipment and material as specified and as proposed to be used in this section of the project.
 - 2. Rack arrangements.
 - 3. Wiring Diagrams: Cabling diagram showing signal cable routing.

1.5 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For audio video systems to include in emergency, operation, and maintenance manuals.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation of units required for this Project.
 - 1. Personnel certified by NICET as Audio Systems Level II Technician.
 - 2. Personnel certified by Avixa as an Installation Specialist (CTS-I)
- B. Manufacturer Qualifications: Engage a firm experience in manufacturing audio video and music systems complying with the requirements of these specifications and experienced with at least 10 projects of similar size and scope that have been in operation for 5 years or more.
- C. Responsibilities:
 - 1. Appoint a Project Foremen who has no less than 10-years industry experience in the field.
 - 2. Provide a factory-trained representative to write the program and commission the system.
 - 3. Have on-staff InfoComm CTS-D (Certified Technology Specialist – Design).
- D. Source Limitations: Obtain audio video system components from a single source.
 - 1. All equipment shall be new, factory warranted products.
 - 2. The most recent hardware release of the equipment shall be provided.

3. All programming software (i.e. DSP) shall be updated to the most recent version prior to system turnover.
- E. Existing Conditions: The winning contractor will be responsible for verifying all site conditions, attending any project meetings, and coordinating with other trades to establish infrastructure needs and schedule.
- F. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- G. Comply with NFPA 70.

1.7 COORDINATION

- A. Coordinate layout and installation of system components and suspension system with other construction that penetrates walls ceilings or is supported by them, including light fixtures, HVAC equipment, fire-suppression system, and partition assemblies.
- B. Coordinate with the Electrical Contractor the installation (correct location and type) of junction boxes, conduit and 120VAC power circuits as required for all audio video systems as specified herein.
- C. Verify all site conditions, attend project meetings, and coordinate with other trades to establish infrastructure needs and schedule.

PART 2 - PRODUCTS

2.1 GENERAL EQUIPMENT AND MATERIAL REQUIREMENTS

- A. Compatibility of Components: Coordinate component features to form an integrated system. Match components and interconnections for optimum performance of specified functions.
- B. Equipment: Comply with UL 813. Equipment shall be modular, using solid-state components, and fully rated for continuous duty unless otherwise indicated. Select equipment for normal operation on input power usually supplied at 110 to 130 V, 60 Hz.

2.2 FUNCTIONAL DESCRIPTION OF SYSTEM

- A. System Functions:
 1. The gymnasium system shall be controlled via a QSC touch panel. This panel will have the ability to control the level of any source independently but will not have a master volume control. This control panel shall include password protected (to be coordinated with the client), and the ability to "reset" levels back to the post-commissioned state. The contractor shall also duplicate this functionality on an owner furnished iPad. The AV system will communicate to this iPad via a dedicated and contractor provided/installed DHCP AV WiFi network.

2. Produce a program-signal tone that is amplified and sounded over all speakers. Reproduce high-quality sound that is free of noise and distortion at all loudspeakers at all times during equipment operation including standby mode with inputs off; output free of nonuniform coverage of amplified sound.

2.3 AV EQUIPMENT

- A. Provide all equipment, cabling and connecting hardware for a complete working system. The following list of components shall be used:

Sources			
2	Shure	QLD24/B58	Supercardioid dynamic handheld system
1	Shure	QLXD14	Bp only system
1	Audio-Technica	BP892xcT4-TH	Headset - beige - TA4F
1	Shure	UA844+SWB	4ch antenna distro
1	Liberty	PE6413-WQ584324	1g xlr in - clear - replace existing 1g xlr
1	RDL	DS-CIJ3	1g decora wall plate - 3.5/RCA in - silver - replace existing 1g xlr
1	Liberty	PE6413-WQ584325	2ru rack panel - 3 xlr, 1 decora
1	RDL	DB-CIJ3	1g decora wall plate - 3.5/RCA in - black - rack panel
1	Denon	DN-300Z	CD/SD/USB/Bluetooth player
1	Radial	BT-Pro	Direct box - Bluetooth
1	Radial	SB-5	Direct box - attached 3.5mm for laptop w/ mono xlr out
Loudspeakers			
8	QSC	E112	12", 2-way, 85x85
2	Community	V2-215S	dual 15" sub
Rack			
1			ofe rack
1	QSC	Core 110F	8x8x8 DSP - QLAN (AES67)
1	QSC	SL-QUD-110-P	touch panel licesne for Core 110 (1 per dsp)
1	QSC	TSC-7w	7" in wall touch panel
1	ProCo	4878-03069LMA-01	4ru rack plate for touch panel

1	QSC	CX-Q 8K4	4ch amp - QLAN - 1250w 8Ω, 2400w 4Ω, 27500w 2Ω, 5000w 4Ω bridged, 2400w 4Ω 2ch parallel, 1250w 70v
1	Middle Atlantic	UFA-8-F1	shelf w/ 1ru blank face
1	Middle Atlantic	PD-915R	9 outlet 15a
1	Triplite	SMART500RT1U	1ru UPS
1	Ubiquiti	ER-X	5 port 1g wired router
1	Ubiquiti	US-8-60W	8 port 1g managed switch - 4 POE
1	Ubiquiti	UAP-AC-LR-US	wap
Cable			
2	Belden	5000UE	12/2 - riser
0.5	West Penn	807X	16awg RG-8/X riser
0.5	Belden	2413	cat6 plenum

2.4 CONDUCTORS AND CABLES

- A. Jacketed, plenum rated, twisted pair and twisted multipair, untinned solid copper.
 - 1. Insulation for Wire in Conduit: Thermoplastic, not less than **1/32 inch (0.8 mm)** thick.
 - 2. Plenum Cable: Listed and labeled for plenum installation.

PART 3 - EXECUTION

3.1 WIRING METHODS

- A. Wiring Method: Install cables in raceways except within consoles and accessible ceiling spaces.
 - 1. Install plenum cable in environmental air spaces, including plenum ceilings.
- B. Wiring Method: Conceal conductors and cables in accessible ceilings, walls, and floors where possible.

3.2 INSTALLATION

- A. General: Install equipment to comply with manufacturer's written instructions.
- B. Wiring Method: Exposed cabling is allowed in the Gymnasium where routed above or along joist cords concealed from view below.

- C. Splices, Taps, and Terminations: Make splices, taps, and terminations on numbered terminal strips in junction, pull, and outlet boxes, terminal cabinets, and equipment enclosures.
- D. Impedance and Level Matching: Carefully match input and output impedances and signal levels at audio signal interfaces. Provide matching networks where required.
- E. Provide physical isolation from each other for microphone, line-level, speaker, and power wiring. Run in separate raceways or provide 12-inch (305-mm) minimum separation where exposed or in same enclosure. Provide additional physical separation as recommended by equipment manufacturer.
- F. Microphone Outlets: Install as follows, except as otherwise indicated.
 - 1. Wall Outlets: Flush mounted.
 - 2. Floor Box Outlets: Recessed in box with device inserts as required to accommodate device fittings.
- G. Identification of Conductors and Cables: Use color coding of conductors and apply wire and cable marking tape to designate wires and cables so as media are identified in coordination with system wiring diagrams.

3.3 GROUNDING

- A. Ground cable shields and equipment to eliminate shock hazard and to minimize ground loops, common-mode returns, noise pickup, cross talk, and other impairments.
- B. Signal Ground Terminal: Locate at main equipment cabinet. Isolate from power system and equipment grounding.

3.4 CLEANING

- A. Prior to final acceptance, clean system components and protect from damage and deterioration.

3.5 STARTUP SERVICE

- A. Perform startup service.
 - 1. Verify that electrical wiring installation complies with manufacturer's submittal and installation requirements.
 - 2. Complete installation and startup checks according to manufacturer's written instructions.

3.6 DEMONSTRATION

- A. Demonstration and Training: Equipment supplier service representative shall demonstrate the system in all operating modes and functions and train Owner's staff.
- B. Schedule training with owner with at least seven days' advance notice.

- C. Train owner's personnel on operation of systems. Provide a minimum of two hours of training. Attend first major use of each system.

3.7 ON-SITE ASSISTANCE

- A. Occupancy Adjustments: When requested within one year of date of Substantial Completion, provide on-site assistance in adjusting sound levels, adjusting controls, and investigating possible needs for any system revisions required to meet actual occupancy conditions. Provide up to one visit to the site for this purpose.

END OF SECTION

Missouri

Division of Labor Standards

WAGE AND HOUR SECTION



MICHAEL L. PARSON, Governor

Annual Wage Order No. 26

Section 083
PLATTE COUNTY

In accordance with Section 290.262 RSMo 2000, within thirty (30) days after a certified copy of this Annual Wage Order has been filed with the Secretary of State as indicated below, any person who may be affected by this Annual Wage Order may object by filing an objection in triplicate with the Labor and Industrial Relations Commission, P.O. Box 599, Jefferson City, MO 65102-0599. Such objections must set forth in writing the specific grounds of objection. Each objection shall certify that a copy has been furnished to the Division of Labor Standards, P.O. Box 449, Jefferson City, MO 65102-0449 pursuant to 8 CSR 20-5.010(1). A certified copy of the Annual Wage Order has been filed with the Secretary of State of Missouri.

Original Signed by _____

Taylor Burks, Director
Division of Labor Standards

Filed With Secretary of State: _____ **March 8, 2019**

Last Date Objections May Be Filed: **April 8, 2019**

Prepared by Missouri Department of Labor and Industrial Relations

OCCUPATIONAL TITLE	** Date of Increase	Basic Hourly Rates
Asbestos Worker		\$63.92
Boilermaker		\$67.29
Bricklayer		\$55.83
Carpenter		\$55.78
Lather		
Linoleum Layer		
Millwright		
Pile Driver		
Cement Mason		\$27.12*
Plasterer		
Communications Technician		\$27.12*
Electrician (Inside Wireman)		\$60.36
Electrician Outside Lineman		\$27.12*
Lineman Operator		
Lineman - Tree Trimmer		
Groundman		
Groundman - Tree Trimmer		
Elevator Constructor		\$27.12*
Glazier		\$27.12*
Ironworker		\$62.91
Laborer		\$44.83
General Laborer		
First Semi-Skilled		
Second Semi-Skilled		
Mason		\$50.28
Marble Mason		
Marble Finisher		
Terrazzo Worker		
Terrazzo Finisher		
Tile Setter		
Tile Finisher		
Operating Engineer		\$56.10
Group I		
Group II		
Group III		
Group III-A		
Group IV		
Group V		
Painter		\$47.08
Plumber		\$67.20
Pipe Fitter		
Roofer		\$52.06
Sheet Metal Worker		\$64.62
Sprinkler Fitter		\$27.12*
Truck Driver		\$27.12*
Truck Control Service Driver		
Group I		
Group II		
Group III		
Group IV		

*The Division of Labor Standards received less than 1,000 reportable hours as required by RSMo 290.257.4(b). Public works contracting minimum wage is established for this occupational title using data provided by Missouri Economic Research and Information Center, in accordance with RSMo 290.257.2.

Heavy Construction Rates for
PLATTE County

Section 083

OCCUPATIONAL TITLE	** Date of Increase	Basic Hourly Rates
Carpenter		\$27.12*
Millwright		
Pile Driver		
Electrician (Outside Lineman)		\$27.12*
Lineman Operator		
Lineman - Tree Trimmer		
Groundman		
Groundman - Tree Trimmer		
Laborer		\$47.49
General Laborer		
Skilled Laborer		
Operating Engineer		\$53.91
Group I		
Group II		
Group III		
Group IV		
Truck Driver		\$46.87
Truck Control Service Driver		
Group I		
Group II		
Group III		
Group IV		

Use Heavy Construction Rates on Highway and Heavy construction in accordance with the classifications of construction work established in 8 CSR 30-3.040(3).

Use Building Construction Rates on Building construction in accordance with the classifications of construction work established in 8 CSR 30-3.040(2).

If a worker is performing work on a heavy construction project within an occupational title that is not listed on the Heavy Construction Rate Sheet, use the rate for that occupational title as shown on the Building Construction Rate Sheet.

*The Division of Labor Standards received less than 1,000 reportable hours as required by RSMo 290.257.4(b). Public works contracting minimum wage is established for this occupational title using data provided by Missouri Economic Research and Information Center, in accordance with RSMo 290.257.2.

OVERTIME and HOLIDAYS

OVERTIME

For all work performed on a Sunday or a holiday, not less than twice (2x) the prevailing hourly rate of wages for work of a similar character in the locality in which the work is performed or the public works contracting minimum wage, whichever is applicable, shall be paid to all workers employed by or on behalf of any public body engaged in the construction of public works, exclusive of maintenance work.

For all overtime work performed, not less than one and one-half (1½) the prevailing hourly rate of wages for work of a similar character in the locality in which the work is performed or the public works contracting minimum wage, whichever is applicable, shall be paid to all workers employed by or on behalf of any public body engaged in the construction of public works, exclusive of maintenance work or contractual obligation. For purposes of this subdivision, "**overtime work**" shall include work that exceeds ten hours in one day and work in excess of forty hours in one calendar week; and

A thirty-minute lunch period on each calendar day shall be allowed for each worker on a public works project, provided that such time shall not be considered as time worked.

HOLIDAYS

January first;
The last Monday in May;
July fourth;
The first Monday in September;
November eleventh;
The fourth Thursday in November; and
December twenty-fifth;

If any holiday falls on a Sunday, the following Monday shall be considered a holiday.