CITY of GREEN RIVER
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City of Green River
City Council Meeting
Agenda Documentation

Preparation Date: August 5, 2024	Department: Parks & Recreation
Meeting Date: August 20, 2024	Department Head: Katie Duncombe
	Presenter: Katie Duncombe

Subject:
Expedition Island Pavilion Audio Upgrade

Background/Alternatives:

Expedition Island Pavilion is the premier event facility for the City of Green River, hosting both private and City events nearly every weekend throughout the year. We frequently receive requests to upgrade the audio-visual (AV) system, as the current system has surpassed its lifespan and struggles to interface with modern technology. Upgrading the AV system is essential to meet industry standards and ensure the Pavilion remains a top choice for event organizers.

Attachments:
Performance Audio Proposal

Fiscal Impact:
This project was budgeted for FY 2024-2025.

Staff Impact:
Minimal

Legal Review:
Reviewed and approved by legal on ……..

Suggested Motion:

I move to approve the agreement between the City of Green River and Performance Audio for upgrades at Expedition Island Pavilion in the amount of $55,170.15.

PERFORMANCE AUDIO
2456 S West Temple Salt Lake City, UT 84115
Phone: (801) 466-3196

Proposal

Project No: PERF-10962
Revision: 3
Quote Date: 07/23/2024

City of Green River | Expedition Island Pavilion Audio Upgrade

475 South 2nd East Green River, WY 82935

Presented By: Rick Low 801-466-3196 x184 rick@performanceaudio.com

Bill To:

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Primary Contact:

City of Green River Wyoming
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Scope Of Work

This proposal is formulated based on a comprehensive analysis of customer requirements, incorporating insights gathered from site survey(s) and subsequent communications. It is imperative to conduct a thorough review to ascertain a precise understanding. This proposal specifically outlines the technical aspects involved in the design, provision, and installation of the audio equipment detailed in the subsequent pages.

Performance Audio is set to supply and install an updated audio system at the Expedition Island Pavilion on behalf of the City of Green River in Green River, Wyoming.

Objective:
The objective is to update the audio system for the client, given the aging condition of the current setup and the likelihood of future problems arising from equipment failures. The client specifically requires a user-friendly system, as Pavilion staff is usually absent during rentals. After the Pavilion staff configures the AV system according to the client's specifications, the responsibility for operating the AV functions will be handed over to the renting clients.

The proposed enhancements involve the addition of two new wireless microphones: a handheld transmitter and a beltpack/lavalier microphone. Additionally, a hardwired XLR microphone input will be incorporated to serve as a backup in case the wireless systems are unavailable. This XLR input can also function as an additional microphone input, catering to the needs or preferences of renting clients.

Further audio input enhancements will involve the incorporation of two 3.5mm auxiliary inputs, strategically positioned at both the equipment rack and within the Pavilion. This setup facilitates convenient client access to audio for events. Note: It will be the responsibility of the client or renters to provide any cell phone adapters as necessary to interface with auxiliary audio inputs. (Two 3.5mm to 3.5mm cables have been included.)

As a component of the video upgrade, HDMI (video) inputs will be introduced at both the equipment rack and within the Pavilion area. This setup enables presentations to be managed from either location. Additionally, the client has specified the inclusion of VGA video inputs in the design. VGA inputs, accompanied by 3.5mm audio input, will be integrated into the same locations as the HDMI inputs, providing flexibility for the utilization of either source as required. Client is to be be responsible for providing VGA cable for renters to interface with video system.

To manage system control, a new digital signal processor (DSP) will be installed to oversee all mixing and routing functions. Additionally, a closed network switch will be implemented for the routing of network signals as needed.

To enhance system simplicity, a user-friendly 7" touch panel will be incorporated. This panel will enable staff or clients to configure the room through a question/answer format, featuring straightforward controls such as volume adjustment or other features based on the responses received.

The Pavilion's speaker enhancements encompass the installation of seven new 12" coaxial speakers, strategically mounted to ensure comprehensive and uniform coverage throughout the Pavilion. The coverage aims to maintain consistency within ± 3dB at any specific point in the main area. The plan is to utilize the existing speaker wire. However, should any defects be identified in the current wiring, fresh speaker wire will be installed. In addition, a new amplifier will be introduced to provide ample headroom for the complete system output. Furthermore, a one-time training session of up to two hours is included in this proposal.

Note: Performance Audio will be reusing specific Owner Furnished Equipment [OFE], including the AtlasIED (35) space equipment rack, Denon TU-1500RD AM/FM Tuner, Epson EB-L520W Projector, and the wall-mounted electric Projection screen. It's essential to clarify that Performance Audio is not accountable for the operational condition or warranty of any Owner Furnished Equipment (OFE). Please note that the control of the high-voltage projection screen will not be addressed in this project. However, the On/Off function of the OFE projector has been incorporated into the design.

Scope of Work:

- Provide and install the equipment listed in this proposal to accomplish the above stated objective.
- Provide and install equipment infrastructure, i.e. DSP, network switch, touch panel, rack AV inputs, etc.
- Provide and install audio and video inputs in Pavilion as per agreed upon locations w/ Client.
- Provide and install updated audio loudspeakers with connectivity as required.
- Provide and install required cableing for a complete and working system.
- Full commission and tuning of AV system.

Not included by Performance Audio but REQUIRED for the project:

- All electrical work and conduit is required per predetermined locations and is to be done by a licensed electrical contractor. All wiring will be in accordance with the NEC code.
- Two dedicated 20A circuits with individual neutral on each circuit is required at equipment rack location.
- Please see "***Assumptions***" section for further details.

Schedule:

- Upon receipt of a signed proposal or purchase order, this project will move into the engineering phase, Performance Audio will hold a kick off meeting to discuss all aspects of the work to be done. Those in attendance are the Sales Engineer who worked with you on this proposal, the assigned Project Manager, the AV Engineer and Installation Lead Coordinator.
- Following the Project Kick Off meeting, a down payment invoice will be created and sent to the client if applicable.
- Once the down payment is received, the items will be ordered. If the terms on this project are progress billing, invoices will be sent to the client at the appropriate times.
- The Performance Audio Project Manager assigned to this project will contact the client as an introduction and will coordinate the implementation details through completion.
- If there are programming or Graphical User Interface (GUI) controllers used in the project, the client may be invited to preview these details in our facility with one of our AV Engineers and to approve this portion of the project.
- Once all equipment is received, the Project Manager will schedule the installation with the client.
- When the installation is finished, the client will review the system with Performance Audio and will sign a Project Completion sign off form.
- A final invoice will be sent to the client along with the warranty document.

Additional Considerations:

Assumptions:

Performance Audio must make some assumptions regarding the physical construction of customer's facility, availability of technical infrastructure and site conditions. If any of the assumptions listed below are incorrect for your project or project site, please let your Sales Engineer know as soon as possible. Changes to the proposal to accommodate different assumptions may influence the price of equipment or services. To ensure that you have an accurate proposal, please review these assumptions carefully:

- Scheduling will need to be coordinated with City of Green River Wyoming ("Client / Customer") and Performance Audio.
- Training as noted.
- All electrical work and conduit installation, if required, is to be done by a licensed electrical contractor.
- All wiring will be in accordance with the NEC code.
- Two dedicated 20A circuits with individual neutral on each circuit is required at equipment rack location.
- All costs associated with any electrical or conduit work required will be the sole responsibility of Client.

- Parking for Performance Audio vehicles will be available on site (within 200' of project location) unless otherwise pre-arranged.
- If applicable, existing equipment will be removed from its location and returned to an authorized representative of the City of Green River Wyoming. Please note that Performance Audio cannot dispose of or take in any equipment removed from this project.
- Information, including costs regarding background checks or additional requirements for installers to perform the specified work are the responsibility of the customer and should be pre-arranged.
- Please provide a place for waste disposal.
- If applicable, networked equipment requiring addressing may need a separate meeting with Performance Audio IT personnel.
- Prior to installation, any touch-panel Graphical User Interface (GUI) programming will be verified by Performance Audio engineering and the customer.
- Upon completion of this project, documentation requiring a customer sign-off will be provided.
- Performance Audio will provide one (1) Warranty Programming Change - in which if applicable DSP or control programming may be updated free-of-charge. If additional programming updates are required beyond this, a Change Order may be issued and additional charges may be incurred.
- Project is warranted for a period of one (1) year unless otherwise pre-arranged.

Risks:

While it is impossible to identify all risks for a project, the following items are potential risks associated with this project as determined by Performance Audio. These are not expected to become issues that will affect the project but are included to make customer aware of known risks.
Please review these risks carefully:

- Equipment ordered for this project has an expected lead time of 6 to 8 weeks after the project is approved and is understood to be current models. However, occasionally equipment is back-ordered. Performance Audio will make all reasonable efforts to move the project forward without delays due to backordering but cannot be held responsible if any such delays occur.
- Delays in the construction schedule, pertaining to other trades, will delay the completion of AV systems.
- Installation of equipment prior to other trades being finished may result in damaged or lost equipment.
- Performance Audio is not responsible for the operational condition, or warranty, of Owner Furnished equipment (OFE).
- Unless stated in this Scope of Work, Performance Audio is not responsible for interfacing or programming OFE, or third party purchased/installed equipment with equipment proposed in this project. If required to do so it will be considered a Change Order and may incur additional labor and/or programming charges. These costs will be invoiced separately.

Constraints:

The following items are understood to dictate any constraints of the project. If any of the constraints listed below are inaccurate for this project, or if constraints for this project exist that are not listed below (including any deadlines or scheduling issues, job site protocols, safety requirements, operating hours, etc.) please let the Sales Engineer know as soon as possible. Failure to advise us of any constraints in advance may result in additional labor costs. Please review carefully:

- Colors, finishes and custom engravings of equipment specified are to be coordinated and signed off on by the client prior to any product being ordered.
- Work shall not begin until third party contractors have completed work. i.e. Conduit and Electrical needs.
- All work is to be performed during normal business hours, Monday- Thursday 9 am to 6 pm, unless other hours have been prearranged and agreed upon.
- Client is responsible for providing access to jobsite and an on-site contact to help answer any questions during the installation process.
- For safety and liability reasons, projects require installation space to be occupied ONLY by Performance Audio personnel unless other arrangements have been made. Please make sure this information is communicated to any management, administration, staff, or personnel that would be using the space during project installation. Be aware that project installation will most likely require multiple days. NOTE: Installation Team has the authority to halt work if the installation space is occupied by unauthorized personnel and is deemed to be unsafe. If this occurs, this may affect any previous schedules or deadlines discussed between the Client and Performance Audio.
- AV system is not available for use until after system commissioning and sign-off by Performance Audio field engineers. Note that this may take multiple days depending on system size and complexity.
- Delays in the construction schedule will delay the completion of AV systems, resulting in delayed turn over to the customer.
- Change orders, and additional work requests shall be processed through the Sales Engineer.

- Change orders may affect any previous schedules or deadlines discussed between the Customer and Performance Audio.
- Any changes or additional requests for service or equipment after final signed agreements may result in a change order and will be billed separately.

Please feel free to contact Rick Low with any questions at 801-466-3196 ext.184 / rick@performanceaudio.com.

If you choose to proceed with this project, please sign, date and return the proposal with any purchase order or deposit arrangements.

Qty Description

Audio

1 **QSC CORE 110f-v2**

Unified Core with 24 Local Audio I/O Channels, 128x128 Network I/O Channels, Dual LAN Ports, POTS and VoIP Telephony, No GPIO, 16 Next-Generation AEC Processors, 1RU.

- 1 **QSC SL-QSE-110-P**
  Q-SYS Core 110 Scripting Engine Software License, Perpetual.
- 1 **QSC SL-QUD-110-P**
  Q-SYS Core UCI Deployment Software License, Perpetual.

1 **Netgear M4250-26G4F-PoE+**

M4250-26G4F-PoE+ (GSM4230P) — AV Line 24x1G, PoE+ Budget 300W, 2x1G and 4xSFP Managed Switch, 24 x Gigabit Ethernet PoE+, 2 x Gigabit Ethernet Network, 4 x Gigabit Ethernet Expansion Slot, 1RU

- 1 **Liberty AV KEPKO-RHIM-FL-HO**
  Single-Port Service Network Panel, w/Logo, 1RU
- 2 **Middle Atlantic RR2-3RCN**
  2SP 3" Deep Rackrail Recessor
- 1 **Performance Audio PA-CNPP-24P**
  24-Port Network Patch Panel w/ Patch Cables

2 **Shure QLXD4=-G50**

Single Ch. Wireless Receiver (Only), Freq. G50 = 470 - 534 MHz, Includes Power Supply, Rack Mount Kit, 1/2 Wave Antennas, BNC Bulkhead Adapters, (2) 2' BNC Cables, (2) AA Batteries, 1RU

1 **Shure QLXD2/SM58=-G50**

Handheld Transmitter w/ SM58 Dynamic Cardioid Capsule, Freq. G50 = 470 - 534 MHz, Includes (2) AA Batteries & Zippered Bag

1 **Shure QLXD1=-G50**

Bodypack Transmitter, TA4F Connector, Freq. G50 = 470 - 534 MHz, Includes (2) AA Batteries & Zippered Bag

- 1 **Shure UL4B/C-MTQG-A**
  Cardioid 5mm Subminiature Lavalier Microphone, TQG (TA4F) for Shure Bodypacks, Includes Tie-Clip, Snap-Fit Windscreen, Storage Case, Black

1 **Shure UA221**

Passive Antenna Splitter/Combiner Kit. Includes Two Splitter/Combiners, Four Coaxial Cables, and Attaching Hardware

Qty	Description

1 **RDL TX-TPR3A**

Active Three-Pair Receiver, Twisted Pair Format-A, Balanced Line Outputs

1 **RDL PS-24AS**

24 Vdc Switching Power Supply, North American AC Plug, 500 mA, DC Plug

2 **RDL TX-J2**

Unbalanced Input Transformer - Unbalanced Stereo Inputs to Summed Balanced Mono Output, RCA Inputs, Phoenix Connector Output

2 **RDL D-TPS7A**

Passive Single-Pair Sender - Twisted Pair Format-A - Mini Jack (3.5 mm) Stereo Input Combined to Mono Output, White

2 **Hosa Technology CMM-105**

Stereo Interconnect, Straight 3.5mm TRS to Same, 5 Ft.

2 **Hosa Technology CMM-110**

Stereo Interconnect, Straight 3.5mm TRS to Same, 10 Ft.

2 **Performance Audio Lot Hardware - Cover Plate**

Cover Plate

1 **Powersoft Quattrocanali 4804 DSP+**

Four Channel Flexible Amplifier, 1200W @ 70V, 4 & 8 Ohms, 1500W @ 2 Ohms, DSP and AES67, 1RU

1 **QSC TSC-70-G3**

Q-SYS 7" PoE Touch Screen Controller for In-Wall Mounting. Includes 1 LAN Port and Aux Power Input, Available in Black Only.

1 **RDL D-TPS1A**

Active Single-Pair Sender - Twisted Pair Format-A - XLR Microphone Input w/ Phantom, Decora Plate, White

1 **Performance Audio Lot Hardware - Cover Plate**

Cover Plate

1 **RF Venue D-ARC**

Diversity Architectural Antenna for Wireless Microphones, 470-698 MHz, Includes Ceiling & Wall Mount Hardware Kit, White

Qty	Description

6 **Fulcrum Acoustic GX1200**

12 inch Coaxial Loudspeaker, 400W @ 8Ω, 100° x 100°, NL4 Speakon Input/Thru (Optional Terminal Strip), (12) M10 x 1.5 Eye Bolt Angle Points, (2) M10 x 1.5 Yoke Points, (1) M10 x 1.5 Pull Back Point, Black (Order Yoke Bracket Separately)

6 **Fulcrum Acoustic YK-GX12**

GX12 Series Yoke Bracket, Black

1 **Fulcrum Acoustic GX1277**

12 inch Coaxial Loudspeaker, 400W @ 8Ω, 75° x 75°, NL4 Speakon Input/Thru (Optional Terminal Strip), (12) M10 x 1.5 Eye Bolt Angle Points, (2) M10 x 1.5 Yoke Points, (1) M10 x 1.5 Pull Back Point, Black (Order Yoke Bracket Separately)

1 **Fulcrum Acoustic YK-GX12**

GX12 Series Yoke Bracket, Black

1000 **Pro Grade 14 AWG 226 BK**

West Penn 226 2-Conductor 14 Gauge Cable

200 **Pro Grade Antenna RG-8/X**

1 Conductor 16AWG (19x29) 50 Ohm Antenna Cable, 95% Bare copper braid and an overall PVC Jacket

500 **Pro Grade Cat 6**

Cat 6 cable. 4 pair of 23 AWG.

200 **Pro Grade Mic Wire**

2 Conductor, 22 AWG mic wire.

1 **Owner-Furnished AtlasIED 135-18 w/Door**

[OFE] - 35 Space Equipment Rack w/ Rear Door & Solid Front Door (SFD35)

1 **Owner-Furnished Denon TU-1500RD**

[OFE] - AM/FM Stereo Tuner, RCA Outputs

1 **Owner-Furnished Epson Pro EB-L520W (V11HA31020)**

[OFE] - 5,200 Lumens, Laser Projector, White

1 **Hall Technologies VERSA 4K-R**

4K Video & USB Extension System for Point-to-Point or Matrix over IP - RECEIVER

1 **Hosa Hosa CMR-203**

Stereo Breakout Cable, 3.5mm to Dual RCA, 3 Ft.

Video

2 **Extron DVC RGB-HD A**

RGB to HDMI Converter with Audio Embedding, Converts Analog RGBHV to HDMI, Analog Stereo Audio Embedding, Computer Video from 640x480 up to 1080p/60, as well as 1920x1200/60, with Reduced Blanking, EDID Minder, Automatic Output Format Selection

2 **Extron PS 1215 C**

12 V, 1.5A Power Supply w/ Captive Screw Connector, Includes ZipClip

1 **Extron WPD 150 A**

Pass-Through Wallplate - HDMI with Audio CS and VGA, White

1 **Pro Grade CM 06VGAM/M (108001-6)**

6 Ft. SVGA to VGA Cable w/ Ferrites, Black

1 **Extron WPD 150 A**

Pass-Through Wallplate - HDMI with Audio CS and VGA, White

1 **Pro Grade CM 50VGAM/M (108001-50)**

50 Ft. SVGA to VGA Cable w/ Ferrites, Black

4 **Hall Technologies VERSA 4K-S**

4K Video & USB Extension System for Point-to-Point or Matrix over IP - SENDER

Multi-System

1 **AtlasIED AP-2410-20S**

Vertical Power Strip, 20A - 24", 10 Outlet, Lighted Main Power Switch, Three-Way Surge Suppression MOV Protection, RFI Filtering, 9 Ft. Power Cord

1 **Middle Atlantic PDX-920R-SP**

NEXSYS Rackmount Power, 20A, (8) Outlet w/ (1) Front Convenience Outlet, Series Surge Protection, Front Selectable Protection from Over-and-Under Voltage, 9 Ft. Cable, 1RU

1 **Liberty AV KEPKO-WQ673198 / 3RU-2 Decora**

Aluminum Flanged Rack Panel, (2) Single Gang Vertical Cutouts for Mounting Low-Voltage Decora Devices, (Use for) RDL Format-A Decora Plates, etc., Classic Black, 3RU

1 **Performance Audio Lot Hardware - EqRk**

Back boxes, conduit, etc.

1 **Performance Audio Lot Hardware - Pav**

Back boxes, conduit, etc.

Qty	Description

Design Implementation

1 **Design-Build Project - Design, Commissioning, and Coordination**

1 **Day Rate Labor Package**

Labor Package with Programming and Installation

1 **Travel**

- 1 **Performance Audio Mileage**
- 1 **Performance Audio Per Diem**
- 1 **Performance Audio Lodging**

PERFORMANCE AUDIO

Proposal

Pricing Summary

Total Installation Price:	$55,170.15
Grand Total:	**$55,170.15**

Pricing valid until 8/22/2024
Price does not include taxes

This proposal includes a 3% cash or check discount. Payments made with a credit card will incur a credit card fee of 3% per transaction

Payment Schedule	Amount	Percent
Initial Deposit (Prior to Ordering Equipment)	$27,585.08	50%
Project Completion	$27,585.07	50%

I **Tylar Winn** certify that I am authorized by **City of Green River Wyoming**("Customer") to make purchasing decisions and have read and understand this proposal. I also verify the functionality, equipment selection, and aesthetic properties of the equipment as laid forth in this proposal to be acceptable. By signing this proposal, I am signifying my agreement to this proposal in full and am authorizing Performance Audio to proceed with ordering the above listed equipment and fulfilling their obligations laid out above. Any changes to the above proposal will be subject to cancellation and/or restocking fees.

This proposal is subject to the terms and conditions at https://installs.performanceaudio.com/termsandconditions

IN WITNESS WHEREOF, the parties have caused this Agreement to be signed and executed representatives.

City of Green River Wyoming		**Performance Audio**	
Accepted by (Signature)	**Date**	**Authorized by (Signature)**	**Date**
Tylar Winn / **IT Support Technician**		**Rick Low** / **Sales Engineer**	
Name / Title (Printed)		**Name / Title (Printed)**	