



Community Development Department

108 E. Proctor Street
Carson City, Nevada 89701
(775) 887-2180 – Hearing Impaired: 711

Staff Report To: Redevelopment Authority Citizens Committee

Meeting Date: June 3, 2019

Staff Contact: Lee Plemel, Director (lplemel@carson.org; 283-7075)

Agenda Title: For Possible Action: Discussion and possible action to make a recommendation to the Redevelopment Authority regarding the expenditure of \$44,754 from the Fiscal Year 2019 Redevelopment Revolving Fund for improvements to the Fuji Park Fairgrounds sound system, located at 601 Old Clear Creek Road.

Staff Summary: Replacement of the Fuji Park Fairgrounds sound system has been identified as an urgent need for events during the 2019 summer event season. The Redevelopment Authority allocated \$100,000 in the budget allocation plan for FY 2019 to replace the sound system. The City received a quote of \$44,754 to replace and upgrade the sound system. All expenditures from the Redevelopment Revolving Fund must be approved by the Redevelopment Authority and Board of Supervisors upon recommendation from the Redevelopment Authority Citizens Committee.

Proposed Motion: I move to recommend to the Redevelopment Authority approval of the expenditure of up to **\$44,754** for the Fairgrounds sound system.

DISCUSSION:

The Fuji Park Fairgrounds, located on Old Clear Creek Road, is a large venue used primarily for summer events, including the Carson City Nevada Fair. Due to continued problems with the old, outdated sound system, replacement of the current sound system at the Fairgrounds has been identified as an urgent need in order to effectively accommodate events.

The Redevelopment Authority Citizens Committee (RACC) and the Redevelopment Authority originally allocated \$100,000 in FY 2020 to replace the sound system. During the 2019 review of the FY 2020 Redevelopment budget allocations, the Redevelopment Authority approved shifting the \$100,000 in funding to the current fiscal year's budget (FY 2019) in order to replace the sound system as soon as possible for the 2019 summer event season. (In order to do this, Bob Boldrick Theater sound system improvements were shifted from FY19 to FY20. See the attached tentative budget allocations as approved by the Board of Supervisors.)

The Parks, Recreation and Open Space Department staff has received two quotes thus far for the proposed sound system equipment. One quote is for \$44,754 and the other is for \$99,000. The lower quote meets the specifications provided by City staff. City staff is still seeking additional quotes, but is ready to move forward with the lower quote. Any remaining funds from the originally budgeted \$100,000 for the project will go back into the Redevelopment Revolving Fund Undesignated account for reallocation to other projects. All purchases must meet City policies and procedures for procurement through the City contracts office.

Parks, Recreation and Open Space Department staff will be available at the RACC meeting to answer questions regarding this request.

If you have any questions regarding this item, please contact Lee Plemel at 283-7075 or lplemel@carson.org.

Attachments:

- 1) Tentative budget allocations approved by the Board of Supervisors March 21, 2019
- 2) Sound system quotes from Nelson Electric Co. and Rocket Labs

Redevelopment Tentative Budget Allocations

| Objective/Project/Program | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY20-24 5-year Total |
|--|------------|----------------|--------------|--------------|--------------|--------------|-------------------------|
| Special Event equipment/ infrastructure | \$ 5,000 | \$ 5,000 | \$ 5,000 | \$ 5,000 | \$ 5,000 | \$ 5,000 | \$ 25,000 |
| Special event support, street closures | \$ 25,000 | \$ 25,000 | \$ 25,000 | \$ 25,000 | \$ 25,000 | \$ 25,000 | \$ 125,000 |
| Façade Improvement Program | \$ 50,000 | \$ 50,000 | \$ 50,000 | \$ 50,000 | \$ 50,000 | \$ 50,000 | \$ 250,000 |
| Special Event funding (RACC) | \$ 25,000 | \$ 10,000 | \$ - | \$ - | \$ - | \$ - | \$ 10,000 |
| Arts & Culture Commission/Events | \$ 25,000 | \$ 25,000 | \$ 25,000 | \$ 25,000 | \$ 25,000 | \$ 25,000 | \$ 125,000 |
| Utility extension assistance | \$ - | \$ 20,000 | \$ 20,000 | \$ 20,000 | \$ 20,000 | \$ 20,000 | \$ 100,000 |
| Assist with William Street corridor project | | \$ - | \$ 85,000 | \$ 300,000 | | | \$ 385,000 |
| Downtown Sidewalk Improvements | \$ - | \$ 200,000 | \$ 200,000 | \$ 200,000 | \$ 200,000 | \$ 200,000 | \$ 1,000,000 |
| South Carson Street Complete Streets | ----> | \$ 200,000 | | | | | \$ 200,000 |
| Downtown Gateway Feature | \$ 5,000 | \$ 25,000 | | | | | \$ 25,000 |
| Bob Boldrick Theater project | ----> | \$ 137,794 | | | | | \$ 137,794 |
| Children's Museum outdoor remodel | | \$ 50,000 | | | | | \$ 50,000 |
| Fuji Fairgrounds arena sound system | \$ 100,000 | <---- | | | | | |
| Fuji Park Master Plan | \$ 20,000 | | | | | | \$ 20,000 |
| 3rd Street parking lot rehabilitation (\$190,000) | | \$ 190,000 | | | | | \$ 190,000 |
| Aquatic facility pool deck resurfacing (\$65,000) | | \$ 52,000 | | | | | \$ 52,000 |
| Underground downtown power lines (\$500,000) | | \$ 100,000 | \$ 100,000 | \$ 100,000 | \$ 100,000 | \$ 100,000 | \$ 500,000 |
| Curry Street gas lamp replacement (\$425,000) | | \$ 85,000 | \$ 85,000 | \$ 85,000 | \$ 85,000 | \$ 85,000 | \$ 425,000 |
| S. Carson St. Long-Term Traffic Circulation Improvements Study (\$80,000) | | \$ 80,000 | | | | | \$ 80,000 |
| Fuji Park signs (\$10,000) | | \$ 10,000 | | | | | \$ 10,000 |
| Mills Park signs (\$12,000) | | \$ 12,000 | | | | | \$ 12,000 |
| Marv Teixeira Pavilion sign (\$30,000) | | \$ 30,000 | | | | | \$ 30,000 |
| Fuji Park grandstands (\$200,000) | | | \$ 200,000 | | | | \$ 200,000 |
| Roll Forward: | \$ 37,794 | \$ - | \$ - | \$ - | \$ - | \$ - | |
| Total Expenditures: | | \$ (1,306,794) | \$ (795,000) | \$ (810,000) | \$ (510,000) | \$ (510,000) | \$ (3,931,794) |
| Undesignated: | | \$ 66,812 | \$ 335,255 | \$ 671,555 | \$ 1,044,727 | \$ 1,120,777 | \$ 3,239,126 |



May 8, 2019

Carson City Parks and Recreation
851 East Williams St.
Carson City, Nevada 89701

RE: Fuji Park Arena Sound System Upgrade with Alternate #01
ATT: Eric Klug

Eric:

As per your request regarding the above referenced project; we are pleased to submit cost for your information.

Scope of work:

1. Demo existing Atlas AH6565S horn speakers from grandstand light poles, Replace with new Community R.5-96MAX and R.5-94TZ full range horn speakers.
2. Utilize and maintain the Atlas BIA-100 arena perimeter speakers.
3. Demo existing speakers from the small and large animal barns and replace with Community 6.5" surface mount full range speakers.
4. Demo existing head end equipment (Amps, Mixer) the rack is to remain and be used with the new equipment.
5. Install new DSP Core with 24 local audio I/O channels and new amplifiers utilize existing wireless microphones systems.
6. Install new audio patch panel so audio can be patched to bypass the DSP.
7. Install new wall mounted 7" touch panel in announcers booth for control and routing.
8. Provide programming for use with owner provided wireless tablet.
9. Install new network switch and router.
10. Install (2) new dual band high output wireless access points to exterior of the announcers building.



Inclusion:

- Ease focus modeling for speaker placement and elevation.
- Engineered pole mounting brackets and hardware.
- Aiming tuning and balancing.

Exclusion

- Existing speaker cabling will be utilized.
- Existing input plates and cabling will be utilized.
- Permits and Fees
- Overtime

Clarification

- It is presumed that all existing perimeter speakers are in good working condition and Nelson Electric accepts no responsibility for speakers that are not functioning.

Alternate #01

Scope of Work

- Include Listen Everywhere server for ADA Compliance.
- Upgrade proposed network switch and router to accommodate for Listen Server.



Clarification for Alternate #01

- The Listen Server requires internet access for setup and management.
- The Listen Server can accommodate up to 1000 users however the quantity of proposed wireless access points that are included with the initial proposal will not support that many users.

Total Cost for Initial Proposal: \$43,270.00

Total Cost Including Alternate: \$44,754.00

Sincerely,
Brian Smith
Systems Project Manager

Authorized Signature for Acceptance: _____

A 1.5% (18% Annually) Finance Charge will be charged on all Accounts Past 30 days. Proposal may be withdrawn if not accepted in Thirty (30) days. All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workmen's Compensation Insurance. All materials will remain the property of Nelson Electric Co., Inc. until all invoices pertaining to this job are paid in full. Right of access and removal is granted to Nelson Electric Co., Inc. in the event of non-payment under the terms of this contract. The customer agrees to pay all interest and any costs incurred in the collection of this debt

Rodeo Arena

| Quantity | Item Description | Manufacture | Model Number |
|----------|---|------------------------|--------------|
| 2 | Two-way, full-range, 12-inch coaxial loudspeaker; 85 Hz - 16 kHz; 200W RMS,500W PGM, 8 ohm 12-inch Horn-loaded 90 x 40, 70V/100V (Grey) | Community Loudspeakers | R.5-94TZ |
| 2 | Two-way, 12-inch, High Broadband Output System 85 Hz - 21.8 kHz,600W RMS, 1200W PGM, 8 ohms High Output 90 x 60 (Grey) | Community Loudspeakers | R.5-96MAX |
| 2 | 400-Watt Transformer, 8 Ohms Transformer for 70V and 100V lines;400W @ 8 ohms, taps for full, 1/2, and 1/4 power | Community Loudspeakers | TRC400-8 |
| 2 | Custom Pole Mounts Dual Speaker Arm Engineered | Polar Focus | PM1-17-G |

Large Animal Barn

| Quantity | Item Description | Manufacture | Model Number |
|----------|--|------------------------|--------------|
| 10 | Compact, two-way,6.5-inch Surface Mount Full-Range (White) 90 dB SPL 1W/1m, 60W RMS. H x W x D: 7" x 11.8" x 10.7" | Community Loudspeakers | CS6-W |

Small Animal Barn

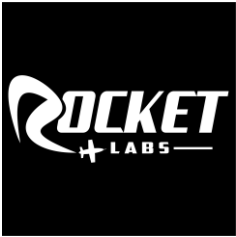
| Quantity | Item Description | Manufacture | Model Number |
|----------|--|------------------------|--------------|
| 6 | Compact, two-way,6.5-inch Surface Mount Full-Range (White) 90 dB SPL 1W/1m, 60W RMS. H x W x D: 7" x 11.8" x 10.7" | Community Loudspeakers | CS6-W |

Head End Equipment

| Quantity | Item Description | Manufacture | Model Number |
|------------------------|---|-------------|--------------|
| Audio Equipment | | | |
| 1 | Q-SYS DSP Unified Core with 24 local audio I/O channels, 128x128 network I/O channels dual LAN ports,16x16 GPIO, AEC processors | QSC | CORE 110F |
| 1 | 8000W Amplifier using FAST channel combining technology 4 channels1200 watts/ch at 8Ω,1000 watts/chdirect drive 70V | QSC | CXD4.5-NA |
| 1 | 8-Channel 500W/CH Q-SYS Amplifier With Mic/line Inputs, Provides FAST channelcombining for higher power output Supports 70V | QSC | CXD8.4Q-NA |
| 1 | Q-SYS 7" POE Touch Screen Controller for in-wall mounting | QSC | TCS-7W |
| 1 | 2X48 2RU Internally Selectable TT (Bantam) 968 Series Audio Patchbay | Bittree | 968484A |
| 24 | TT (BANTAM) 110 OHM AUDIO PATCH CABLES | Bittree | BPC2402-11 |

Network Equipment

| | | | |
|---|---|--------|---------------|
| 1 | Listen Anywhere Server 2 Channel (Revised from original list) | Listen | LW-100P-02-01 |
| 1 | AV SERIES 26-PORT GIGABIT L2/L3 MANAGED SWITCH (Revised from original list) | Luxul | AMS-2600 |
| 1 | EPIC 5 HIGH PERFORMANCE GIGABIT ROUTER (Revised from original list) | Luxul | ABR-5000 |
| 1 | Wireless Controller | Luxul | XWC-1000 |
| 2 | Dual Band AC 1200 Outdoor AP US | Luxul | XAP-1440 |



815 Kiley Prky #1907
Sparks, NV 89436
775-500-1062

To: **Carson City Parks Dept**
Attn: **Eric Klug**
Ref: **Fuji Park (Arena/Barn sound system)**

Date: 1/14/19

From: **Jeff Hobensack**

Scope of work:

Replace existing system that is more functional and diverse for events within the arena. The existing system that isn't function, however by design it is only for speaking, announcing only, minimal music playback clarity. With current events they require a much fuller range of frequency and coverage. Low end, thump to high clarity and that it keeps this in all areas of the arena, pits, shoots, sides, bleachers etc...

The proposed system is from two point sources, on the existing light *poles behind and offset to the announcing stand. This will eliminate hearing someone speak from all directions other than the direction they are coming from, meaning whether in the announcing stand next to it, in front of it or in the arena, the audio will come from one area only. The proposed system not only has the clarity of voice and music, it also has much greater level, so that automotive type events can be heard. This will be accomplished by only six speakers, three per pole.

*Poles, they are classified by size and have a per designed weight loads per square feet, these speaker total 500lbs (per pole) on a minimum of four attachment points all more than a foot apart, which is under the max per foot allowed. The poles are tapered so attachment is done by banding around the poles, not into them, no penetration will be done, no drilling, cutting or changing the poles will be done. Standard practice and designed for this application.

This video is a similar design at Tiger Stadium, where the audio if from the score board at one end and has full coverage, loud and clear, even with music let alone vocals. Much larger application, however the principle is the same, same manufacturer, same type of speakers.

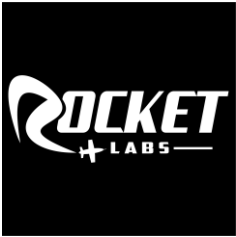
<https://youtu.be/VMGaBcbaDiY>

The existing system has multiples of amplifiers, transformers and controls. The proposed system has only two amplifiers, four channels each.

Part of this proposal is also the control system, the control of all the audio inputs and outputs to the speakers. This is called DSP, Digital Signal Processing and distributed audio. Meaning the audio, whether microphones (wired or wireless), playback music, from devices such as phones, pads, computers etc.... can be managed from in the stand, outside it, wirelessly from the arena if this option is selected. Being that it is DSP within the system are limits, protections, programming, controls etc.... This is also for security of the system, basically after completion the only two option users will have is volume and input selection. They will not be able to boost frequencies within the system, change limit parameters and so on without an external computer and the program.

Included also is four channels of wireless microphones, digital system, with a mix of handheld type and bodypacks that can be used with headset mics, so that someone on a horse, vehicle or just doesn't want to hold a mic can talk through the system from anywhere in the arena, stands or outside fringes.

Included is also a new 70v amplifier to operate the existing barn system, which will also be apart of the new DSP system. Included in the install will be the repair, reuse and repurpose of the barn system so that it is functioning as designed.



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Sparks, NV 89436
775-500-1062

Included in the purchase of the equipment is the design, programing and tuning of the system. Plus two follow ups when requested to reprogram if needed or wanted, adjustments or tuning, also training.

Included:

- All parts, connectors and terminations required for scope of work.
- Removal of unused, no longer needed and non-functioning items
- Install new equipment per scope of work
- Programing and tuning of system
- All freight/shipping

Excluded:

- Any additional or not listed items.
- Rental equipment, scissor lifts, forklift, boom, any specialty items.

System purchase as described above: \$88,000.00

*Note: once approved a detailed list will be provided, also all equipment, materials, supplies will need to be prepaid prior to ordering.

The install Labor is estimated and a not to exceed amount to accomplish scope of work: \$9,000 - 11,000.00

*Note: Labor to be billed after completion.

Thank you.

Carson City Parks rep

Date

Rocket Labs, Jeff Hobensack

Date