

Woodside Sellman Project Items

WRNS STUDIO Design Team **Audio Visual for Stage**

November 4, 2016

The team has reviewed additional issues brought up by the school and has reviewed this several times internally and visited the site 11/2/16 to review the remaining items in person. Attendees to the meeting included Woodside School District (Terese McNamee and Kara D'Ambrosio) Shalleck Collaborative (Ian Hunter) and WRNS Studio (Joel Williams). Issues were reviewed with additional team members from Shalleck Collaborative (Jedd de Lucia) and WRNS (Pauline Souza)

Issues:

1. Mic Feedback (previously discussed and agreed to)
 - a. As observed previously when Jedd, Joel and PCD visited the site, a combination of factors is resulting in feedback from the two mics installed in front of the proscenium. These appear to be installed as designed and are so located as a result of early conversations about placing stage extensions in front of the proscenium to enlarge the stage. For various reasons the school has now determined that the stage extensions will not normally be used and that for choral performance on the floor in front of the stage the acoustics of the room do not require amplification. To make the best use of the equipment and increase functionality of the stage, it is the recommendation of the design team to relocate the mics and servo reelers onto the stage. The mic connections in the ceiling can still be used to rig up suspended microphones as needed for a specific production. Terese indicated that this was acceptable to the school, as long as it was confirmed that the feedback issue is resolved if mics are hung from those locations. The four microphones need to be set up for independent control. In reviewing the equipment in the rack Ian indicated that it was possible a different retractor module should have been provided, with more buttons to provide this increased control (SRC-6B instead of the SRC-6 currently installed).
 - i. **ACTIONS**
 1. Shalleck confirmed retractor module installed is correct. Buttons to be provided on touchpanel.
 2. PCD to provide 90-degree plugs and adjust speakers to face forward as shown in the design documents at no charge to the school.
 3. PCD to reprogram and/or replace the retractor module if found to be incorrect to allow independent control of motorized mics at no charge to school.
 4. PCD to test for feedback once speakers are rotated and microphones can be set at the proper elevation at no charge to school.
 5. PCD to relocate (2) two servo reels and microphones to the front of the stage as discussed. The proposal has already been provided and confirmed to be reasonable by Ian.
2. Control Panel
 - a. Location of panel on wall at the back of the gym is visually disconnected from action on the stage when the bleachers are deployed. The mobile mixer is heavy and awkward to set up at the top of the bleacher, although this was done for the Operetta. Also, the provided 50' snake has been found to be a little too short to place the mobile cart as desired. Options discussed included purchasing a longer snake (recommended going through PCD but could come from any AV supplier) and setting up the mixer with a wifi access point to allow use of an iPad App. As described, internet access is not required to the wifi router. It simply plugs into the back of the mixer and provides a pathway for the ipad to communicate with the mixer.
 - i. **ACTIONS**
 1. School to determine needs and take next steps to purchase a longer snake and/or set up an app-based control for the mixer.
3. Wireless Mics

- a. The wireless mics are experiencing cutouts and interference. This is likely due to quantity and proximity of numerous antennas. The rack-mounted receivers are also taking up more space than is necessary with the appropriate accessories. Ian confirmed that despite what was said in the emails from PCD, the wireless microphones were not present when the existing building equipment was surveyed and no indication was ever made to Shalleck of their existence. Consequently, they were never factored into the design of the equipment for the new building. However, had they been brought to the attention of the design team, the recommendation would have been to take the same steps as described by PCD to install an antenna combiner and reduce the rack space currently occupied by the receivers. Ian described the process of installing the antenna combiner and pointed out how the one currently installed in the main rack on the stage is set up. Terese and Kara felt that with some instruction it would be possible for the school to self-perform the work to install the antenna combiner and do the rack cleanup.

- i. **ACTIONS**

1. Shalleck to provide recommended list of equipment/parts required for antenna combiner, with a brief description of steps involved. (see memo and inserted text below)

4. Miscellaneous

- a. Ian walked Terese and Kara through all the components in the rack and answered questions about wiring and various setup options
- b. Ian explained the configuration of the panels and breakers in the electrical room, specifically with regard to the power for the projector.
- c. Projector lamps have had to be replaced already. It is possible that the projector was left on when the building was closed down for the summer, resulting in the lamps burning out. The school needs an easier way to confirm that the projector isn't getting left on unintentionally.

- i. **ACTIONS**

1. PCD to confirm hours logged by projector for lamps that were replaced.
 2. PCD to program "sweep off" to shut down the equipment at a set time every day (midnight?).

- d. Display screen in the rack on stage did not appear to be functional today. The inputs were cycled through and the feed from the camera was never found.
- e. The camera above the bleachers and monitor in the lobby are always on by default, which is a distraction to the kids at time. The school needs an easier way to shut off the feed for daily use.

- i. **ACTIONS**

1. PCD to reprogram the controls to address this concern.

Woodside Elementary School November 3, 2016

AV Site Visit Memo (inserted)

The Shalleck Collaborative Inc.

1. New wireless microphones:

- a. User indicates the mic no longer passes audio after transmitter has been on for a long time. Next time it happens, we suggest taking a picture of the front of the receiver (near top of rack) to aid in troubleshooting.

2. Existing Wireless Microphones:

- a. An antenna combiner system and new rack shelves are desired:

- b. Combiner w/ cables (\$399/ea, 3 needed):

- <http://www.performanceaudio.com/item/audio-technica-atw-da49-uhf-antennadistribution-system/11684/>

- c. Active Antennas (\$329/pr, 1 pair needed):

- <http://www.performanceaudio.com/item/audio-technica-atw-a49-uhf-wide-banddirectional-lpda-antennas/9454/>

- d. Dual Unit Rack Mount (\$20, 6 needed)

- <http://www.performanceaudio.com/item/audio-technica-at8630-joining-platekit/>

9440/

e. Antenna Cable (\$19, 2 needed):

<http://www.performanceaudio.com/item/audio-technica-ac12-rf-antenna-cable/9448/>

f. Manual Here: [http://www.audiotechnica.com/cms/resource_library/literature/201cf5918f2c3ac1/p51824_01_atw_da4](http://www.audiotechnica.com/cms/resource_library/literature/201cf5918f2c3ac1/p51824_01_atw_da49_om.pdf)

[9_om.pdf](http://www.audiotechnica.com/cms/resource_library/literature/201cf5918f2c3ac1/p51824_01_atw_da49_om.pdf)

3. If desired, a “MASS” extension can be purchased from PCD in whatever length is desired. This would allow the console to be placed wherever desired. A CAT6 cable in the same length should be purchased as well, to extend the “D-SNAKE” signal from console to stage box.

4. iPad control over mixing console:

a. Purchase wireless router & iPad.

b. Follow directions here (page 81):

http://www.allen-heath.com/media/Qu-Mixer-Reference-Guide-AP9372_9.pdf

5. PCD Work outstanding (no cost):

a. Flatten main speakers against wall. Will require use of right-angle XLR and power connectors. Confirm Tuning.

b. Program (4) up/down buttons on Crestron Touchpanel for each Servoreeler, as well a master up/down button.

c. Confirm hanging mics have low frequency cut on console, and are not routed through subwoofer.

d. TV at equipment rack has no signal from camera. Repair.

e. Read projector lamp hours out of projector and inform client. Lamps have already been replaced, and should not have gone dead so quickly, unless the projector was left on during the summer.

6. PCD Work outstanding (added cost):

a. Move front set of servoreeler mics to on-stage.

b. Add projector lamp hour indication to touch panel.

c. Add “sweep off” command to touch panel at midnight. Add time and setting capability.

d. Move front camera to switched power, and configure to shut off when system is off.

PROPOSED FEE: Fee for designing new system, and providing necessary documentation is as follows:

(assumes XL Construction working with Woodside School District)

Shalleck: \$0

WRNS: \$0