

Council Chambers AV System Updates

May 27, 2022

Submitted to: **City of Snoqualmie**
38624 SE River St,
Snoqualmie, WA 98065

Location: Snoqualmie City Hall

Contact: Jonathan Geyer

Scope of work: *Provide and install updates to the existing AV system to facilitate using the native Zoom interface for soft codec video teleconferencing software. The new system will integrate the existing PTZOptics Cameras into the new Zoom system; the HDMI output on both cameras will be extended back to a rack mounted HDMI multiviewer video processor (MVP). The MVP will output a single HDMI with both camera feeds merged onto one side by side frame; the HDMI output will be connected to an HDMI to USB converter. (If needed the cameras can also be used individually.) The updated system will include (14) wireless gooseneck microphones and receivers; all of the microphones will come with rechargeable batteries. Two (8) bay wireless gooseneck microphone chargers will be provided with the new system. DCI will reconnect the (2) existing Shure SLX microphone receivers. The QSC Core 110F digital sound processor (DSP) will accept all (16) channels of wireless microphones and (1) ceiling microphone for "near-side" audience audio. The QSC DSP and the HDMI to USB converter, will output USB audio and USB video to the Crestron Zoom conference system for high quality audio and video. The system will have the ability to route the high quality USB audio and video to a rack mounted OFE PC to be used for general meeting/conference room PC needs or other soft codec VTC software. The QSC DSP will also receive the "far-end" audio over the two-way USB connection and send audio to a new (4) channel amplifier, re-powering the existing conference room and lobby speakers. The ceiling speakers in the council chambers will be re-powered and re-zoned into (3) zones for an improved gain-feedback ratio; the 4th zone will be the lobby. The video switching will be replaced with a new digital 8x2 matrix switcher (DMS); the (2) existing VGA with audio floor box connections will be replaced (2) HDMI input plates. The existing DVD player will be replaced with a rack mounted Blu-ray player. The dedicated Zoom PC, provided as part of the Crestron UC system, will also be mounted in the rack; the zoom PC can output to (2) displays (DCI will need to know if the customer would like a dual screen or a single screen set up – the screens are not side-by-side, so this may not be an ideal dual display configuration.) The system will include a Barco ClickShare C-5 wireless presentation gateway for wireless sending a laptop screen and audio to the system. All of these sources will connect to the DMS; the DMS will output HDMI over cat6 twisted pair to receivers installed at the existing projector and at a new 86" display. The new 86" display will be wall mounted on an articulating mount on the south fabric wall; this display can mirror the projector or can display separate content. Fabric wall alterations are excluded from this proposal. The existing wall AMX wall dock will be replaced with a permanently*

mounted 10" Crestron touch panel for zoom room control; the panel can be switched into "room control" mode for routing inputs, master volume control, individual microphone levels, PTZ camera control and turning projector/TV on/off as needed. The iPad can also be used for zoom room control via the Crestron or Zoom App. If possible, DCI will reconnect to the existing shade and lighting control system. Please note that if any peripheral system programming is required by third party vendors to complete integration with the new control system, that work is excluded from this proposal and will be approved and paid for by the City of Snoqualmie. Equipment and material as follows:

Item	Quantity	Description
1.	14	Shure QLXD4 Wireless Microphone Receiver with 15" ULXD8 Gooseneck Microphone
2.	14	Shure SB900B Rechargeable Battery
3.	2	SBC850-US 8-bay charging dock
4.	4	Shure UA844+ Antenna Distribution System
5.	1	QSC Core 110F Digital Sound Processor
6.	1	QSC Core QIO-ML4i Input expander
7.	1	QSC MP-440V 4-Ch amplifier
8.	1	Crestron CP4 Control Processor
9.	1	Crestron 6x2 HDMI Matrix Switcher
10.	4	Crestron HDMI extender kits
11.	1	Crestron UC-CX100-Z-WM Zoom Room integrated conference system
12.	1	Crestron 10" wall mounted touch panel

13.	1	Barco ClickShare C-5
14.	1	SALT 4x1 Multiviewer
15.	1	Magwell HDMI to USB adaptor
16.	1	Denon BD-500BDMKII Professional Blu-ray Player
17.	1	IOGear USB switcher
18.	1	LG 86" 3840 x 2160 UHD Commercial Lite LED backlit LCD TV
19.	1	Peerless SA771PU Articulating Display mount for displays up to 90"
20.	1	Audio Technica ES9450/XLR Ceiling microphone – Omnidirectional
21.	Lot	Miscellaneous Cable and Connectors
22.	Lot	Installation, Testing and Commissioning

********Eighty-Five Thousand, One Hundred and Eighty-One Dollars and 00/100 + WSST*** **** \$85,183.00********

(All of the bolded Shure Equipment account for \$28,009.00 of the project cost)

Note: This proposal does not include any electrical additions or alterations of any kind; all electrical work to be provided by others. This proposal does not include sales tax. This proposal includes for equipment, installation, testing, and final commissioning of the system, as outlined above. Any changes to scope will be accompanied by an updated proposal. This proposal excludes error and omissions/professional liability insurance.

Submitted by: Avery Dahl
Time payment options are available upon request.
Cash Terms: 50% down with balance due at installation.
This proposal may be withdrawn if not accepted within thirty (30) days.

DCI Authorized Signature: _____

Avery Dahl

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.

You agree that Dimensional retains a security interest in all personal property delivered pursuant to the acceptance of this proposal and to any equipment later ordered by you from Dimensional, until such time as payment of all amounts due to Dimensional are made in full. If you fail to make any payments when due, Dimensional may require you to return all personal property delivered, make it available to Dimensional for recovery, or exercise any other rights or remedies arising from RCW 62A.9A. Regardless of default, we may also file a mechanic's lien, UCC-1 form and other collateral registration. By signing this proposal you consent to such filings. All liens and security interests, if incorporated, will be released upon full payment of all amounts due Dimensional arising from or related to this proposal.

Acceptance of Proposal: The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Authorized Signature: _____

Date of Acceptance: _____