

**CITY OF MADISON HEIGHTS  
ELECTRONIC COUNCIL AGENDA REQUEST FORM**

SUBMITTED TO: Melissa R. Marsh, City Manager

SUBMITTED BY: Amy J. Mischak, HR Director/Purchasing Coord DATE: 06/21/22

FOR CONSIDERATION AT THE COUNCIL MEETING OF: 06/27/22

**ACTION REQUESTED**

PRESENTATION _____	FUTURE PUBLIC HEARING _____
PUBLIC HEARING – SPECIAL APPROVAL _____	BID AWARDS / PURCHASES <u>✓</u>
PUBLIC HEARING – OTHER _____	ORDINANCE - FIRST _____
COMMUNICATION _____	ORDINANCE - SECOND _____
REPORT _____	OLD BUSINESS _____

**DESCRIPTION OF ITEM**

To award the contract for installation of Council Chambers sound system as part of the Civic Center Complex Construction Project

**IF ORDINANCE, CITE TITLE/CHAPTER SECTIONS**

**POLICY CONSIDERATION**

Per the attached memo, Council is requested to award the contract for installation of Council Chambers sound system as part of the Civic Center Complex Construction Project to Advanced Lighting and Sound in the amount of \$18,797 including parts and labor.

**FINANCIAL IMPACT**

No Impact _____	Fee Waiver Proposed _____
Budgeted Fund Name(s) _____	Department Name <u>Municipal Building</u>
Appropriated in Acct. No. <u>470-265-987-0000</u>	Budget Amount _____
Amount Available in Acct. <u>10727524</u>	Budget Amount _____
Second Account Number _____	Revenue Generated _____
Amount Available in 2 <sup>nd</sup> Acct. _____	
Other Comments _____	

**REVIEW CHECKLIST**

DEPARTMENT Amy J. Mischak, HR Director/Purchasing Coord DATE 06/21/22

DEPARTMENT \_\_\_\_\_ DATE \_\_\_\_\_

CITY MANAGER Melissa R. Marsh, City Manager DATE 06/21/22

DATE: June 21, 2022

TO: Melissa R. Marsh, City Manager

FROM: Amy J. Mischak, HR Director/Purchasing Coordinator

RE: Civic Center Complex Project - Council Chambers Audio/Visual

As you and Council are well aware, as part of the Civic Center Complex Construction Project, Council Chambers is being relocated. This necessitates a transfer of some of the existing broadcast sound equipment and also provides the opportunity to upgrade select audio visual equipment in order to provide improved audio visual capabilities in our new facility.

During the exploratory phases of this project, you met with representatives from Advanced Lighting and Sound along with an evaluation panel including Partners in Architecture representative Lauren Lee, Media Specialist Anna Pereny, and the undersigned to evaluate the best possible approach to moving the existing equipment and installation of new audio visual equipment where appropriate.

The panel discussed the City's needs and intention to use as much existing equipment as possible, but to form a realistic plan to upgrade components where possible. Some of the upgrades include two sixty-five inch LED monitors, new processors and a touch screen controller – please see attached for an overview from ALS of the proposed installation. ALS has provided a quote to include all of the needed equipment for this transfer including parts and labor to remove the existing equipment and relocate to the new Council Chambers control room. As noted in their overview, the pricing does not include moving the cable drops for WOW or Comcast.

Advanced Lighting and Sound (ALS) has serviced the existing broadcast equipment for many years, including the overhaul which occurred in 2015. ALS has provided the City with diagnostic information and recommendations to our equipment, have provided on call and remote technical assistance throughout the years, and they are intimately familiar with the entire system, making ALS the most qualified to perform this work during the construction and relocation.

Staff and I respectfully request that City Council approve a contract with Advanced Lighting and Sound for this project in the amount of \$18,797 as being in the best interest of the City.

Thank you for your consideration.

## City of Madison Hts Council Upgrade

The purpose of this project is to move the City Council Chambers, Control Room and equipment to a new location in the City Hall Building. In addition to this, new equipment will be provided to enhance the current system to provide for a full HD broadcast.

The 5 PTZ cameras will be re-used and installed in the new location, all cabling for video/power and control will need to be installed in the new location.

The Tricaster 860 video switcher and monitors will be re-used.

A new presentation system will be installed that includes most of the new video equipment:

There will be a PC located at the podium that connects wirelessly to an owner provided wireless presentation system to be installed at the right end of the Dais. This will be hardwired through CAT5 to a HDMI (**EX-70G2**) Tx/Rx to feed a OFE HDMI 4x2 switcher.

An Owner provided Zoom PC is to be located in the Control Room to allow the operator to manage the Zoom call and have audio/video connections connect to the broadcasting system. This will feed HDMI to the HDMI switcher.

Output #1 of the HDMI switcher will feed the **DEC-MD-HX** scaling converter to provide a HD-SDI signal to the Tricaster. This provides any presentation source to the Tricaster for recording/broadcasting.

The **DEC-MD-LX** is an SDI to HDMI converter to allow a feed from the Tricaster to be an input to the HDMI switcher and presentation system.

Due to the version of software in the Tricaster, a **CAP-1** is needed to take the output of the Tricaster to feed the Zoom call. This allows the Zoom far end to see the production.

Two 65" TV's with mounts **65UR340C9-EGH/LTM1U** will replace the projector for displaying the presentation or Zoom sources.

A new under desk rack **5-21-26** and power strip **JG9-ALS** will be required for some of the equipment needed at the owner provided work surface. Owner to provide a side divider for under the desk. The existing rack in the Control Room will be moved into the new Control Room for additional equipment.

In addition to the audio equipment that will be re-purposed there are also new audio components that will be added to the system.

In order to accommodate the existing audio microphones, presentation audio, new Zoom meetings and provide an easier user control and interface a **QSC Core 110f** audio processor was added to replace the Yamaha TF Rack mixer. The Core110f does the automatic mixing of the signals, allows for multiple routing outputs, internal recording file playback and control. This audio processor will include a 7" touch screen with a desktop mount **TSC-70-G3/TSC-710t-G3**. This has a custom interface **SL-QUD-110-P** that allows the user to control aspects of the audio system.

Additional audio equipment includes a **ALS POE+ injector** to power the 7" T/P and a **ALS HDMI to Audio converter** to get the presentation audio into the audio processor.

Through the use of the existing amplifiers, we will be creating a zoned audio system to allow the Dais to hear as well as the audience without the possibility of feedback. The Dais right side will be a zone, Dais left side is a zone and the audience is a zone. We will add 8 ceiling speakers **Control 26CT** to the room.

Due to the current supply chain delays and availability, some of the equipment listed may experience extended delays. If the delays interfere with the installation dates, we may look to provide an alternate equivalent that would be available.

There are other existing equipment components that have not been listed in this document as they are owner furnished. These will be integrated into the installation of the system.

ALS is not responsible for the relocation of the Comcast and WOW fiber or City of Madison Heights network cabling.



# Advanced Lighting & Sound

Phone: 248-817-2092  
 Fax: 248-817-2093  
 1026 Maplelawn Drive  
 Troy, MI 48084

## Quote

No.: **17333**  
 Date: 6/1/2022

Prepared for:  
 Anna Pereny (313) 480-7385  
 City of Madison Heights  
 300 West 13 Mile Rd.  
 Madison Heights, MI 48071

Prepared by: Shawn Watts  
 Account No.: 6066  
 Phone: (248) 837-2602

Qty	Manuf	Item ID	Description	Sell	Total
<b>VIDEO</b>					
1	Decim	DEC-MD-HX	MD-HX: HDMI/SDI Cross Converter w/ Scaling & Frame Rate Conversion	\$295.00	\$295.00
1	Decim	DEC-MD-LX	MD-LX: HDMI/SDI Converter	\$99.00	\$99.00
1	Data	CAP-1	SDI to USB 3.0 capture box, includes USB 3.0 cable.	\$329.00	\$329.00
3	WyreS	EX-70-G2	4K UHD 4:2:0 60Hz HDBaseT™ Extender Set with PoH, Bidirectional IR & RS-232 (4K: 35m/115ft, 1080p: 70m/230ft)	\$204.00	\$612.00
2	LG	65UR340C9-EGH	65" 4K LED TV	\$1,115.00	\$2,230.00
2	CHIEF	LTM1U	Micro-Adjust Tilt Wall Mount Large	\$320.00	\$640.00
1	MAP	5-21-26	SLIM5 KNOCKDOWN 21SP,26D	\$528.00	\$528.00
1	Juice	JG9-ALS	15 Amp 8 Outlet Power Strip (plus one on front)	\$76.00	\$76.00
<b>VIDEO SUBTOTAL</b>					<b>\$4,809.00</b>
<b>AUDIO</b>					
1	QSC	Core 110f	Unified Core with 24 local audio I/O channels, 128x128 total network I/O channels with 8x8 Software-based Dante license included, USB AV bridging, dua	\$3,126.00	\$3,126.00
1	QSC	TSC-70-G3	Q-SYS 7" PoE Touch Screen Controller for In-Wall Mounting. Color - Black only	\$1,397.00	\$1,397.00
1	QSC	TSC-710t-G3	Table top mounting accessory for TSC-70-G3 and TSC-101-G3.	\$333.00	\$333.00
1	TREND	ALS POE+ Injector	Generic POE+ Injector	\$75.00	\$75.00
1	QSC	SL-QUD-110-P	Q-SYS Core 110 UCI Deployment Software License, Perpetual.	\$170.00	\$170.00
1	Ace D	ALS HDMI TO AUDIO	HDMI Audio Extractor PL-HA-TosRCA	\$50.00	\$50.00
8	JBL	CONTROL 24C	4" Two-Way Vented Ceiling Speaker, 80Hz – 20kHz, 86dB Sensitivity, 80W Program and 40W Pink Noise Power Capacity, SonicGuard™ Overload Protection, 16	\$129.00	\$1,032.00
<b>AUDIO SUBTOTAL</b>					<b>\$6,183.00</b>

**Quote**  
**No.: 17333**  
**Date: 6/1/2022**

Qty	Manuf	Item ID	Description	Sell	Total
<b>INSTALLATION</b>					
1	ALS	Install	Install Materials - Video/Audio/network/power cabling and connections, interconnect cabling, fastners and misc.	\$500.00	\$500.00
1	ALS	Labor	Installation Labor - remove existing equipment from old system and move to new location, integrate new equipment, test.	\$6,000.00	\$6,000.00
<b>This does not include moving of WOW or Comcast fiber or main lines. This must be done by those vendors.</b>					
1	ALS	System Program	Programming of technical systems - Custom programming of Audio processor and touch panel interface	\$600.00	\$600.00
1	ALS	Shipping	Shipping Charge	\$380.00	\$380.00
1	ALS	TSCHG	Transitory Surcharge	\$325.00	\$325.00
<b>Based on current supply chain issues our manufacturers are adding a surcharge to all orders to offset increases in shipping and materials.</b>					
<b>Based on the amount of these charges we have no option but to pass a portion of them on to cover these increases</b>					
<b>INSTALLATION SUBTOTAL</b>					<b>\$7,805.00</b>

Your Price: \$18,797.00  
Total: \$18,797.00

Prices are firm until 7/1/2022

Terms: Net 15

**Prepared by:** Shawn Watts, shawnw@go-als.com

**Date:** 6/1/2022

**Accepted by:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Disclaimer**

All prices quoted are valid for 30 business days. Please fax signed quote to 248-817-2093 or email to sales@go-als.com so that your order can be placed. Thank you for your business.