

# **McKnight Crossings Church of Christ**

# **Assessment of Worship Environment**

# Evaluation of Physical and On-Line Worship

November 2021

Prepared by: Bret Blackford

To the elders of:

McKnight Crossings Church of Christ 2515 South McKnight Road, St. Louis, MO 63124

The following individuals contributed to the information contained herein:

Jeff Kryder, Senior Minister
Jeremy Picker, Family & Worship Minster
Jeannie Britzmann, Associate Minister
Jeff McGlawn, past involvement and technical advisor



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Background: The Senior Minister, Jeff Kryder, and the Family & Worship Minister, Jeremy Picker, have shared ideas on how to improve the Sunday morning worship experience. Initial focus from the Senior Minister was the on-line worship experience but the Worship Minister also had ideas to improve the physical on-site worship experience.

Recommendations: The following are the recommendations of Bret Blackford based on current understanding of project goals. This list will probably need to be adjusted after further evaluation of the project and discussion with key stakeholders (Jeff Kryder and Jeremy Picker). The following is in order of operation, based on what should be done first, not necessarily in order of importance.

- 1. Lighting: The first project should be the auditorium lighting, which has two (2) components:
  - a. Update the lighting controls: Replace the old 70s era push knobs with modern digital controls. This will make it easier for the untrained to run lights (e.g., funerals, wedding, etc.)
  - b. Add Stage lighting: Per discussions with Jeremy and Jeff the house lights are adequate (not great but they work<sup>1</sup>). What is needed is additional stage specific lighting connected with the digital lighting controls mentioned above. Two types of stage lighting were recommended by contractors:
    - Track Lighting (preferred): This will be the easiest to install and require the least amount of additional rework of drywall and existing ceiling fixtures.
    - ii. Add/replace some existing ceiling lights (not recommended): The existing can lights above the stage are not properly angled nor do they have the correct lumens.
  - c. Obtain new bids specific to this phase of the auditorium project.
- 2. Stage & Backdrop Repair/Replace: The stage and backdrop are showing age and no longer work well with our worship aesthetic. However, no one has a clear vision of what the replacement stage and auditorium should look like.
  - a. Create a team to consider design options.
  - b. Design team makes recommendation to shepherds
  - c. Design selected
  - d. Contractor bid requested/accepted (or build using in-house labor)
- 3. Audio: The current audio system is analog and is operated on Sunday be a skilled church member. A digital sound/mixing board would better ensure reproducible sound and allow more members of the congregation the ability to run sound on a Sunday. This will also make it easier to support special events like funerals and weddings.
- 4. Video Streaming: This is important but should be talked later in the update process. The current streaming will be improved with lighting discussed at 1 above. Additional cameras and associated video equipment will aid the ease of production and video quality but can be addressed later, not an immediate pain point. This will also allow the leadership to discuss how we want o address on-line vs in-person worship (discussed later in this document).

<sup>&</sup>lt;sup>1</sup> Jeff Earnhart and Dave Arnold replaced the auditorium lights with 150W LEDs back in 2018. At this time they dropped the lights slightly inside the can cylinders which provided slightly better house lighting.



# Current Pain-Points<sup>2</sup> (not in order of importance):

### 1. Outdated Auditorium Lighting Controls

As noted in **Exhibit A**, the lighting controls for the auditorium are a set of old, mid-70s analog push-activated control knobs. These controls are hard to understand, hard to operate, and when they eventually fail will be difficult and time consuming to fix.

### 2. <u>Dim Auditorium Lighting</u>

Many members have commented that the auditorium lights, even at maximum, are still dim.

# 3. <u>Dim/Inadequate Stage Lighting</u>

Current overhead lighting is inadequate for on-line video. Video results (without any additional floor spot lamps) is poor and does not reflect the worship experience well.

#### 4. Extensive Worship Set-up

Prior to worship the audio and video system need to be brought on-line, checked, and calibrated/set.

### 5. Several Single Points of Failure

Like many congregations, MX relies on specific key people to make the Sunday worship operate smoothly.

- The current soundboard needs a skilled technician and operating it is a learned skill (requires an apprenticeship).
- Video recording: usually performed by the same individual (not a deep bench if someone unavailable)
- Streaming set-up: usually performed by the same individual (not a deep bench if someone unavailable)

### 6. Auditorium Stage and Back Wall Showing Age

The backwall needs maintenance and paint. May be a good time to revisit the current stage and backwall and rebuild so it compliments the in-person and on-line worship.

<sup>&</sup>lt;sup>2</sup> List summarized by Bret Blackford based on review of several different documents and conversations. List still needs to be formally accepted by Jeff Kryder and Jeremy Picker to ensure it reflects their thoughts.



# Goal/Requirements:

# To be determined (TBD) <sup>3</sup>

It is important for the successful analysis and execution of the project that clear goals and objectives are obtained and documented. These goals should document current pain points and things we would like to do but currently cannot. There should be objective goals that can be measured at the end of the project to determine if project was successful or not.

Along with these goals will be the identification of project owners and key stakeholders. Before vendors are selected or any physical work begins the elders need to understand and agree to the various goals of the project. Elders should consider ...

- Do we want to be an on-line focused church?
- Are we happy/content with the on-line experience or do we need to expend some of our resources on improving?
- Are we happy with current worship aesthetic or do we want to change lighting, back wall, remove pews, etc.? All or in part?
- Do we want on spend resources on the Sunday audio system?

#### Bids Received to Date:

These are helpful in understanding ballpark dollars but need to be revisited based on specifics of desired work, and that the project will be performed in phases and not bid as a single job. Bids are difficult to read in this report and included to maintain completeness of documentation.

- Exhibit E Advanced Audio & Lighting Systems, Inc.
- Exhibit F Arch City Audio Visual Services
- Exhibit G Elite Enterprises
- Exhibit H HD Media

# Other Documents:

- Exhibit A.1 Auditoium Lighting Control
- Exhibit A.2 Auditorium Light Map
- Exhibit B MX Auditorium Remodel memo, with goal. Author unknown
- Exhibit C MX Auditorium Remodel- Bid Analysis. With goal. Author unknown
- Exhibit D Auditorium Lighting and Electrical Upgrades. Email from Jeff Earnhart to Jeff McGlawn.

<sup>&</sup>lt;sup>3</sup> Above text in purple a placeholder. Comments are by Bret Blackford and will be replaced when more project information obtained from Jeff Kryder, Jeremy Picker, and the elders.



# Considerations of In-Person and On-Line Worship:

As the shepherds consider the "auditorium Project" and worship we need to consider how we congregate. Historically we have always considered our Sunday worship as a joint in-person experience. With the advent of real-time on-line worship we need to consider what are short and long-term goals are for worship.

# Some related questions for MX:

- 1. If McKnight Crossings wants to provide an on-line worship experience is this something we will encourage (or do we prefer in-person)?
- 2. If McKnight Crossings want to pursue an on-line real-time worship will that be emphasized over in-person worship? That is, do we build out the auditorium to accommodate the on-line worship possibly even to the detriment of in-person worship? An example would be lighting would we want lighting, boom mics, screens, and cameras that look awkward in-person but improve the on-line experience? Do we spend our time and money focusing on on-line ministry over in-person?
- 3. If McKnight Crossings pursues on-line worship how do we engage those members who worship remotely? How do we provide a sense of community? <sup>4</sup>
- 4. If McKnight Crossings wants to pursue an on-line worship experience how "professional" do we expect this to be? Are we looking at a functional alternative to inperson or do we want to spend resources (time and money) to provide something polished?

Below are just a few of the various articles written about the shift to on-line worship:

- N-PERSON ATTENDANCE V. ONLINE ATTENDANCE AND THE EMERGING TRAP OF DOING NOTHING WELL HTTPS://CAREYNIEUWHOF.COM/IN-PERSON-SERVICES-V-ONLINE-SERVICES-AND-THE-EMERGING-TRAP-OF-DOING-NOTHING-WELL/
- IS "ONLINE CHURCH" REALLY CHURCH? THE CHURCH AS GOD'S TEMPLE

  HTTPS://WWW.THEGOSPELCOALITION.ORG/THEMELIOS/ARTICLE/IS-ONLINE-CHURCH-REALLYCHURCH-THE-CHURCH-AS-GODS-TEMPLE/
- NO PEW? NO PROBLEM. ONLINE CHURCH IS REVITALIZING CONGREGATIONS.
   HTTPS://WWW.CSMONITOR.COM/USA/SOCIETY/2021/0209/NO-PEW-NO-PROBLEM.-ONLINE-CHURCH-IS-REVITALIZING-CONGREGATIONS

<sup>&</sup>lt;sup>4</sup> This is also a valid concern for in-person worship. What do the shepherds expect of the congregation regarding fellowship, attendance of classes and mid-week small groups, etc.? In-person worship is no different that on-line worship if members leave immediately after service.

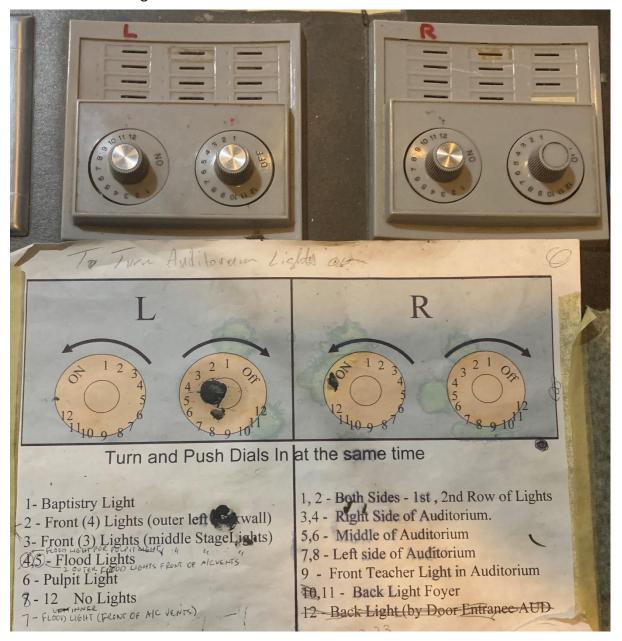




# Exhibit A.1 – MX Auditorium Light Controls

# **MX Auditorium Light Controls**

Below are the analog rotary dials that are used to turn on/off the various lights in the auditorium. As you can see from the diagram the process is not readily intuitive and prone to mistakes. Also, this is an older mid-70s style switch that might be difficult to replace when it starts malfunctioning.

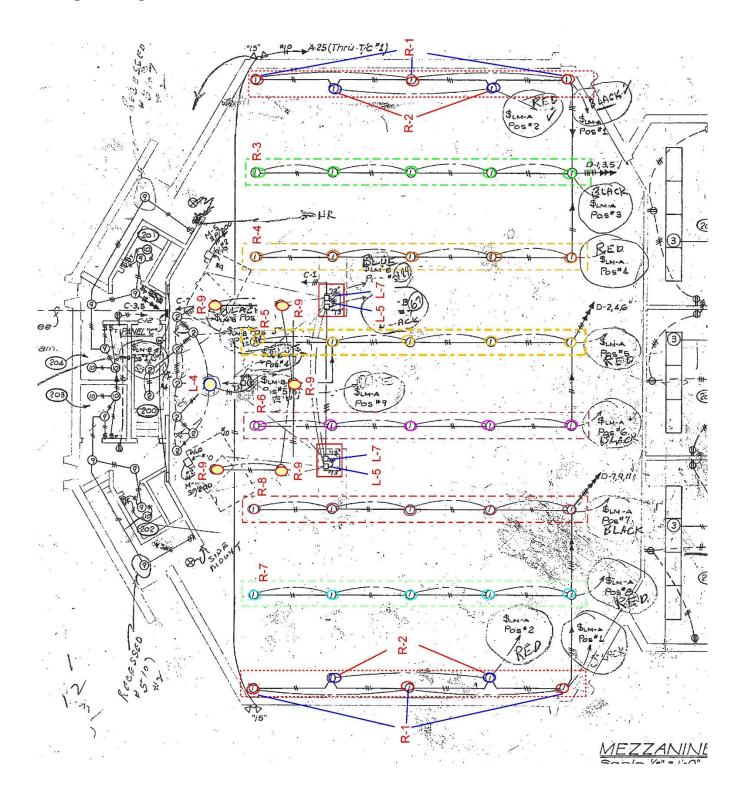




# Exhibit A.2 – MX Auditorium Light Diagram

# **MX Auditorium Light Diagram**

Numbers below represent the switch setting that operates the light or series of lights. Example: R-1: indicates that these lights are switched using setting 1 on the R dial/knob.





# **Exhibit B.1**

# Exhibit B – Scope document obtained from Jeannie Britzmann

#### Scope document obtained from Jeannie Britzmann

McKnight Crossings Church of Christ 2515 S. McKnight Road St. Louis, MO 63124 Sept 27, 2021

Re: MX Auditorium Remodel

MX leadership has recommended the auditorium to be evaluated to determine if it should be remodeled.

#### Goal:

To evaluate and implement necessary changes (sound, light, décor, space, etc.) to bring our online worship experience to the next level.

Currently MX produces a weekly online experience that is adequate for individuals to participate in Sunday worship. It is desired for the experienced to be improved through better sound and visual experience, while at the same time improving the simplicity and efficiency for the current MX online production team. i.e. don't intend to hire a full time technical person.

Jeff K and Jeannie met with Jeff E (Elite Technology Solutions) and Aaron (HD Media Systems) last week to introduce them to our auditorium renovation goals. We expect to receive bids from both of them later this week or early next week.

It is anticipated the following key areas would need to be improved:

# 1) House Lighting

Update electrical board Inset light fixture and possible increase in fixtures

### 2) Audio/Video System

Speaker systems- multi zone

Hidden integration

**Acoustic Treatments** 

Projection system- hi-definition, properly calibrated (equalization, delay, level balancing, crossovers, processors)

Stage Lighting-enhance online viewing

# 3) Tech Center

Combine or separate sound/video control center (communication if separated) Automation(presets) of regular weekly presentations (lights, camera, sound, keyboards, etc.) through software.

# 4) Space

Build out the stage Change backdrop

Page 1 of 2



# **Exhibit B.2**

#### Scope document obtained from Jeannie Britzmann

Take pews out

#### Conclusion:

Both consultants agreed that house lighting (1970's centralized lighting) is the first priority. How to economically increase brightness and keep dimming capabilities will depend on the current wiring -we sent links to our building's blueprints.

Both seem to vision the same for our audio/video system changes.

- We have good acoustics and our current speakers seem to be adequate.
- Stage lighting will need to be increased
- Update projector- possibly change from our current front projector system to a short throw projector which is cheaper, less special needs, and just as powerful

Both seem to vision the same for tech center

- Use Software- turns computer into AV mixer, upgrade sound board to allow for overrides as desired, otherwise use presets.
- Could separate sound/video control center if desired

Changing the space, both the stage and backdrop could be done by MX volunteers. Jeff E works with a consultant who could help with design and diffusion boards. We think it would be wise to take advantage of the consultant's expertise mainly for speed of results.

Both Jeff E and Aaron have agreed to price out the major divisions of need, although it is difficult to see addressing the audio/visual needs without addressing the space concerns. Based upon our discussions we think our overall cost might be in the \$140,000 range. We should have a better fine-tuned estimate by next week.

Page 2 of 2

Summary (by Bret Blackford) of key items from above:

**MX leadership** has recommended the auditorium to be evaluated to determine if it should be remodeled. Goal:

To evaluate and implement necessary changes (sound, light, décor, space, etc.) to bring our **online worship experience t**o the next level.

Currently MX produces a weekly online experience that is adequate for individuals to participate in Sunday worship. It is desired for the [on-line] experienced to be improved through better sound and visual experience, while at the same time improving the simplicity and efficiency for the current MX online production team. i.e. don't intend to hire a full time technical person.



# **Exhibit C**

# Exhibit C – Project summary analysis obtained from Jeannie Britzmann

### Below is a summary analysis obtained from Jeannie Britzmann

McKnight Crossings Church of Christ 2515 S. McKnight Road St. Louis, MO 63124 November 1, 2021

Re: MX Auditorium Remodel- Bid Analysis

MX has received bids from Jeff E (Elite Technology Solutions) and Aaron (HD Media Systems) for technical system upgrades (lighting, audio/video, tech center, physical stage/backdrop).

<u>Goal:</u> To evaluate both bids, choose which company to engage, implement necessary changes to bring our online/in person worship experience to the next level.

Conclusion: Jeff K and Jeannie B would engage Elite to upgrade our outdated systems.

The major difference between the two bids is the new house lighting system. Elite will use high-quality LED recessed fixtures that run on low-voltage and high-quality DMX controlled power supplies. Elite is experienced in DMX lighting and states they can integrate the new system with our audio/visual controls for an easy-to-use reliable system for our volunteers without needing to add any additional lights in our ceiling. This reduces cost and ultimate construction risks.

#### Elite Projected Costs:

- 1) Sound system Upgrades-\$16,000 Highlights-Install digital signal processor for mixing control, and loudspeaker management. Install programmable control processors (iPad).
- 2) House lighting-\$60,000 Highlights-Low voltage LED replacement fixtures, DMX controlled power supplies
- 3) Streaming Camera System-\$15,000 Highlights-3 HD broadcast quality PTZ cameras, 4-Ch HDMI A/V streaming mixer
- 4) Projector and Screen-\$39,000 Highlights- 1 High-quality laser based projector, HD resolution with 8000 lumens, I throw lens, 1 High-quality motorized projection screen, tab-tensioned ALR screen material 138"by 75"tall
- 5) Stage lighting-\$10,000
- 6) Stage Backdrop- \$10,000



# **Exhibit D**

# Exhibit D – Project summarization by Jeff Earnhart

### Below project summary per Jeff Earnhart – 12/16/2018



### Auditorium lighting and electrical upgrades

Jeff Earnhart <jeffmarionearnhart@gmail.com>

Sun, Dec 16, 2018 at 11:05 PM

To: Jeff McGlawn <jeffbeatamcglawn@yahoo.com>, Jeff McGlawn <jeffmcglawn@gmail.com>

Jeff,

Here are my thoughts and observations on the lighting and electrical quotes we have for the auditorium:

Advanced Audio and Lighting Systems

Their "total sanctuary lighting solution" seems like a great package. It's designed to solve the stage lighting issues, upgrade the outdated control room, and provide dimmable LED lights & fixtures for the auditorium. Unfortunately, at over \$146,000, I don't see this as realistic to do all the work "in one bite".

In looking at just the stage lighting and the control room (which are the two higher priorities in my mind), I don't think we have an accurate quote for the third-party electrical contractor's portion. It almost certainly has to be less than \$25,250, since this cost includes installing 60 new fixtures in the auditorium, which wouldn't be part of the scaleddown staging lighting work. I think this might be as simple as a call or email to Mark to clarify this. I suspect including the third-party electrical portion will increase the quote from \$53,322 to over \$65,000 (but shouldn't add the entire \$25,250).

#### Arch City:

This quote looks like it only addresses the stage lighting and doesn't include the old control room. Maybe I misunderstood the scope, but either Michael misunderstood our request, they aren't interested or capable in re-doing the control room, or I am missing something in all of this.

As for what they quoted, it looks somewhat similar in scope to what Advanced Audio & Lighting quoted and is probably less expensive (depending on Advanced Audio's third-party electrician's costs). However, I am hesitant to change out the stage lighting without doing major upgrades to the control room. If Arch City in unable to upgrade thew control room or is uninterested in that portion, that could eliminate them from consideration.

# Suggestions:

1) seek clarity on the third-party electrician's cost as it relates to Advanced Audio's quote for the stage lighting and control room work.

2) seek clarity from Arch City to determine if they could include the control room upgrade as part of their quote. And if so, what would be their timeline to provide this quote to us?

Let me know if you'd like to meet to discuss this, and if you'd like me to contact Michael and Mark to move this forward. I could work to make contact with them in hopes of getting responses in early January.

I am available to discuss this at your convenience before the 23rd or after the 28th.

Jeff Farnhart

once we have this feedback, I'd sny me get a sketch. of the Arch city clesign to show others what the pipes will look like. Some with Advanced Andio, to the extent there are "visible pieces" of equipment or the extent there are "visible pieces" of equipment or



# **Exhibit E.1**

# Exhibit E – Bid from Advanced Audio & Lighting Systems

# Bid from Advanced Audio & Lighting Systems, Inc

Advanced Audio & Lighting Systems, Inc. 6707 N. Sheridan Rd. Peoria, IL 61614 (309) 691-7105



# **Estimate**

Date	Estimate #
7/16/2018	ES-988562

Bill To McKnight Crossings Church of Christ 2515 S. McKnight Road St. Louis, MO 63124

Account #	Terms	Rep	P.O. Number		Projec	ct
		MA				
	Descri	ption	QTY	U/M	Each	

Description	QTY	U/M	Each	Total	
ETC ERn2-RM-120 Unison® ERn External Control Enclosure single processor, Rack mount 120v	1	ea	1,183.00	1,183.00	
ETC P-ACP Unison Paradigm architectural lighting control processor	. 1	ea	2,535.00	2,535.00	
ETC P-SPM Unison Paradigm station power supply	1	ea	845.00	845.00	
ETC, UH10010 1G 10 Button Assy	3		295.75	887.25	
B. Unison Paradigm Control Station (Model P-TS7-PE) to consist of:  1 7184A1532 P-TS7-PE - Paradigm 7" Ethernet Portable Touchscreen Station to include:  - 7" Black Portable Touchscreen - 10' Ethercon to RJ-45 cable			3,188.90	3,188.90	
ETC ERP24-FT12 Echo Relay Panel Feedthrough 24-way panel with 12 relays - Echo, sACN, DMX-512, TimeClock, or stand-alone control - Rugged steel wall-mount enclosure - Full compliance with UL, cUL and FCC regulations	1	ea	2,184.00	2,184.00	
ETC ERP-SMD Echo Relay Panel, 120V Surface mount Metal Door	1	ea	209.30	209.30	
ETC RSN-TERM Response 4 Port DMX/RDM Gateway - 4 Terminal Connectors	2	ea	854.10	1,708.20	
ETC N3GA-RM Gateway Rack Mount Kit Supports up to 2 Gateways, includes a blanking plate for one gateway.	1	ea	45.00	45.00	
	8	Subtotal	10 Sept. 10 Sept. 2 May 1		
	5	ales Ta	x (0.00)		
www.advaudio.com	1	Total			







# **Estimate**

Date	Estimate #
7/16/2018	ES-988562

Bill To

www.advaudio.com

McKnight Crossings Church of Christ 2515 S. McKnight Road St. Louis, MO 63124

				Projec		
	MA					
Descri	otion		QTY	U/M	Each	Total
		quipment	1	ea	915.00	915.00
		met nanel	1	02	68.00	68.00
			2	ea		50.00
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			2	ea	51.73	103.46
achine, black b	rushed and anodi	zed				
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	Rackmount Pow	er Strips, 8	1	ea	151.00	151.00
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s SM16TAT2S	A Smart Manage	d PoE+	1	lea	650.51	650.51
					ALM CONTRACTOR	a Carra II
Mini-Com All N	Metal Shielded Mo	dular Patch	1	ea	55.64	55.64
RU, 19" rack m	ount					
		RJ45,	16	1.00	12.33	197.28
				\$ 85 mg		
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UT Plug-in stat	ion		3	ea	100.80	302.40
		ce mount	3	ea	42.00	126.00
Kit			3	ea	21.00	63.00
/2 Stranded ha	re copper conduc	tore	500		0.36348	181.24
		1013,	300	"	0.30240	101.24
			5	l <u> </u>		
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Page 2

**Total** 







# **Estimate**

Date	Estimate #
7/16/2018	ES-988562

Project

Bill To McKnight Crossings Church of Christ 2515 S. McKnight Road St. Louis, MO 63124

Account #	Terms	Rep
		MA

U/M	Each	Total
ft	0.18375	36.75
ft	0.21738	217.38
	ft	ft 0.18375

P.O. Number

Description	QTY	U/M	Each	Total
West Penn 4246 CAT6 23 AWG 4 PAIR Solid bare copper conductors, unshielded with an overall jacket	200	ft	0.18375	36.75
West Penn DA2401 Single Pair 24 Awg. Stranded tinned copper conductors, individually shielded with an overall jacket.	1,000	ft	0.21738	217.38
System installation - Demo of existing control equipment	8	hr	98.00	784.00
System installation - Equipment racks & panels	16	hr	98.00	1,568.00
System installation - Low voltage cable pulls	12	hr	98.00	1,176.00
System installation - Low voltage termination & testing	12	hr	98.00	1,176.00
Lighting Programming	12	hr	98.00	1,176.00
End user training of installed equipment	4	hr	98.00	392.00
System documentation and 'As Built' drawings			1,000.00	1,000.00
Reimbursement for travel and work expenses			500.00	500.00
Pre sales tax total				25,138.78
	S	Subtotal		
	Sales Tax (0.00)			
www.advaudio.com Total				







# **Estimate**

Date	Estimate #
7/16/2018	ES-988562

Bill To
McKnight Crossings Church of Christ
2515 S. McKnight Road
St. Louis, MO 63124

Account #	Terms Rep P.O		P.O. N	umber		Project	t			
		MA								
	Descrij	otion			QTY	U/M	Each	Total		
The Light Source fixture  - White trim ring  - 52 degree beam  - 3000K color tem  - Terminal screw c  - 11" diameter rou  The Light Source  LED fixture  - White trim ring  - 90 degree beam  - 3000K color tem  - Terminal screw c  - 6" diameter roug	angle perature lata connection gh in  MICR40W90-30  angle perature lata connection				60	ea	1051.45833	63,087.50		
West Penn DA240 conductors, individ	11 Single Pair 2 Iually shielded v	4 Awg. Strand vith an overal	ed tinned cop jacket.	per	2,000	ft	0.22832	456.64		
*** EC mounts fixt System installation System installation	1 - Low voltage	cable pulls			20 18	hr hr	98.00 98.00	1,960.00 1,764.00		
Misc. Hardware Pre sales tax total							1,000.00	1,000.00 68,268.14		
Baton Pipes			2.44 p/45 f 1 0 3				1,000.00	1,000.00		
					Subtotal					
						Sales Tax (0.00)				
www.advaudio.	com				7	<b>Total</b>	Total			







# **Estimate**

Date	Estimate #
7/16/2018	ES-988562

Bill To
McKnight Crossings Church of Christ 2515 S. McKnight Road St. Louis, MO 63124

Account #	Terms	Rep
		MA

P.O. Number	Project	

Description	QTY	U/M	Each	Total
The Light Source MQSB Mega-Quick Pipe Splice sched 40, Black Finish, Safe Vertical Working Load: 600 Pounds	4	ea	13.75	55.00
The Light Source MBATB, Mega-Baton Clamp, Black Finish. Fits 1 1/2 " pipe	36	ea	13.50	486.00
System installation - Mounting of baton pipes Pre sales tax total	36	hr	95.00	3,420.00 4,961.00
		- 12		
ETC SELD40HI-0 Selador Desire Series D40 Studio HD LED fixture - White	14	ea	1,493.70	20,911.80
ETC 400SC Safety Cable 32' ETC 400BD barn doors for Source Four fixture - White	14 4	ea	8.45	118.30
E 10 400BD barri doors for Source Pour lixture - Writte	4		70.98	283.92
Lex DMX-5P-10 5 Pin DMX Extension 2 Pair Shielded Cable, Neutrik Black/Gold Connectors 10'		ea	31.655	443.17
Lex DMX5P-TERM 5 Pin DMX Terminator	3	ea	18.24	54.72
System installation - Prep, mounting & focus of lighting fixtures	10	hr	95.00	950.00
Pre sales tax total				22,761.91
	S	Subtotal	\$	121,129.83
	S	ales Ta	x (0.00)	\$0.00
www.advaudio.com	٦	otal	\$1	21,129.83



# **Exhibit E.6**

Thank you for the opportunity to partner in your church's environmental vision. Our proposed stage lighting as designed will not only to illuminate the stage but also to provide a wide range control for live viewing as well as video production. The house lighting retrofit will provide general illumination and add to the inviting worship space. The ETC products specified are internationally known for quality for performance and longevity. All the lighting fixtures are of the LED design and are inherently energy efficient. I have included links in the document to the high visibility items in the project. This does not include a exhaustive list of all the included components necessary for systems function, however those peripherals have been included in the quote. High voltage work will require a certified electrician. Our team will work closely with the electrical contractor, minimizing their time requirement.

# Total Sanctuary Lighting Solution

- ETC SELD40HI-0 Selador Desire Series D40 Studio HD LED White (14)
- The Light Source RL100W52-30ETR Recessed 120v LED fixture- 3000K color temperature- 52 degree beam (50)
- The Light Source MICR40W90-30ETR 40W Recessed 120V LED fixture- 3000K color temperature- 90 degree beam (10)
- ETC 400BD barn doors for Source Four fixture White (4), Unison® ERn External Control Enclosure single processor, Unison Paradigm architectural lighting control processor, Unison Paradigm station power supply, ETC, UH100101G 10 Button Assy 3, Unison Paradigm Control Station, Paradigm 7" Ethernet Portable Touchscreen Station, Echo Relay Panel Feedthrough 24-way panel (12) relays, ETC ERP-SMD Echo Relay Panel, Middle Atlantic wall mount equipment rack(s), Baton Pipes

#### Labor Overview

Demo of existing control equipment, Mounting of baton pipes, Install Equipment racks & panels, System installation - Prep, mounting & focus of lighting fixtures Final termination & verification, Low voltage cable pulls, System documentation and 'As Built' drawings, Lighting Programming, End user training of installed equipment

• \*\*\* Electrical Contractor mounts fixtures & terminates high voltage \*\*\*

Selador Desire D40 Studio RL100w52 MICR40W90

Touch Screen

Button Stations

Total Sanctuary Lighting Solution

\$121,129.83



# **Exhibit E.7**

# Pyramid Electrical Contractors (Total Sanctuary Lighting Solution)

# Description

- 1. Install (60) new lighting fixtures in the same locations as existing; light fixtures and lamps are furnished by Advanced Audio and Lighting
- 2. Furnish and install power to (3) new batons; batons are furnished and installed by Advanced Audio and Lighting.
- 3. Installation of DMX cabling in daisy chained configuration; DMX cabling is furnished by Advanced Audio and Lighting.
- 4. Installation of (3) entry button stations; entry button stations are furnished by Advanced Audio and Lighting.
- 5. Utilization of existing switchgear and breakers to remain.
- 6. Utilization of MC cable.
- 7. Permit fee.

# Option-1 Total Base Package

\$25,250.00

Option 1-Base Package Stage Lighting and Control of Existing House Lighting

# Teraist (faitte) a

- ETC SELD40HI-O Selador Desire Series D40 Studio HD LED fixture White (14), Power Control System, Unison Dimming Rack, Paradigm Architectural Control Processor, Paradigm Station Power Module Relay Module (12 Relays), Electronic Reverse Phase Module (12 Dimmers), Architectural Control System, Unison Heritage Control Station 10 Select Switches, Unison Paradigm Control Station, Paradigm 7" Ethernet Portable Touchscreen Station, 7" Black Portable Touchscreen, Transition Networks Smart Managed PoE, Middle Atlantic wall mount equipment rack(s), Baton Pipes
- See Above Labor Overview

Selador Desire D40 Studio

Touch Screen

**Button Stations** 

Option-1 Total Base Package

\$53,322.38





Advanced Audio & Lighting Systems, Inc.

6707 N. Sheridan Rd. Peoria, IL 61614 (309) 691-7105



# **Estimate**

Date	Estimate #
7/16/2018	ES-988561

Bill To
McKnight Crossings Church of Christ 2515 S. McKnight Road St. Louis, MO 63124

Account #	Terms	Rep
		MA

P.O. Number	Project	

	- 1 2 10 1 2 10 1 2 2 1 1 1 1 1 1 1 1 1 1			
Description	QTY	U/M	Each	Total
I. Power Control System to consist of: A. Unison Dimming Rack to consist of: 1 7183A1001 DRD12-24-120 - DRd12 100-120V Rack Enclosure - Designed for 3 phase 4 wire with ground operation at a maximum of 200A 1 7180A1007 P-DRD-TK - DRd Paradigm Termination Kit - Required for DRd with Paradigm processor 1 7180A1009 P-ACP2 - Paradigm Architectural Control Processor 1 7182A1001 P-SPM - Paradigm Station Power Module - supports 32 stations and (1) 500m wire segment 6 7083A1085 R20 - Dual 20A 120V Relay Module (12 Relays) 6 7183A1017 ELV10 - Dual 10A Electronic Reverse Phase Module (12 Dimmers)  II. Architectural Control System to consist of: A. Unison Heritage Control Station (Model UH10010-XXF) to consist of: 3 QUOTE-20009 UH10010Z - Standard Color (Color TBD)1-gang faceplate assembly to include the following: 10 - Select Switches Custom nomenclature to be determined 3 7181B2008 UH10010 - 1-gang, 10-button electronics assembly w/IR Port			15,600.00	15,600.00
		Subtota Sales Ta	i ax (0.00)	
www.advaudio.com		Total	• 50 000	- W.
Page 1	_			





Advanced Audio & Lighting Systems, Inc.

6707 N. Sheridan Rd. Peoria, IL 61614 (309) 691-7105



# **Estimate**

Date	Estimate #
7/16/2018	ES-988561

Bill To
McKnight Crossings Church of Christ 2515 S. McKnight Road St. Louis, MO 63124

Account #	Terms	Rep	
		MA	
	Descrii	otion	

P.O. Number	Project

Description	QTY	U/M	Each	Total
B. Unison Paradigm Control Station (Model P-TS7-PE) to consist of:  1 7184A1532 P-TS7-PE - Paradigm 7" Ethernet Portable Touchscreen Station to include:  - 7" Black Portable Touchscreen  - 10' Ethercon to RJ-45 cable			3,188.90	3,188.90
ETC RSN-TERM Response 4 Port DMX/RDM Gateway - 4 Terminal Connectors	1	ea	854.10	854.10
ETC N3GA-RM Gateway Rack Mount Kit Supports up to 2 Gateways, includes a blanking plate for one gateway.	1	ea	45.00	45.00
Middle Atlantic PPM-8-18 8RU Pivoting panel mount, 18" depth Middle Atlantic PPM-LID18 Top cover for use with 18" deep PPM series enclosures	1	ea ea	203.00 79.80	203.00 79.80
Transition Networks SM16TAT2SA Smart Managed PoE+ Switch 16 Port Gigabit PoE+ 2 Port 100/1000 SFP	1	ea	650.51	650.51
Panduit CP24BLY Mini-Com All Metal Shielded Modular Patch Panels 24 ports, 1RU, 19" rack mount	1	ea	55.64	55.64
Panduit TX6 PLUS UTP Jack Module, Category 6, RJ45, 3-position, 8-wire universal module, White	8	700	12.33	98.64
Panduit MINI-COM blank module, black, 10 pack  ETC ECPB DMXOUT Plug-in station  ETC ECPB PB1 1-gang, 2.5" deep back box, surface mount  ETC ECPB U-Bolt Kit	2 3 3 3 3	ea ea ea	4.515 100.80 42.00 21.00	9.03 302.40 126.00 63.00
	5	Subtotal		320 100.001.00
	5	ales Ta	x (0.00)	
www.advaudio.com	7	otal		





www.advaudio.com



# **Estimate**

Date	Estimate #
7/16/2018	ES-988561

Bill To
McKnight Crossings Church of Christ 2515 S. McKnight Road St. Louis, MO 63124

Terms	Rep	P.O. N	Number		Project	
	MA					
Descrip	otion		QTY	U/M	Each	Total
		tors,	500	ft	0.36248	181.24
West Penn 4246 CAT6 23 AWG 4 PAIR Solid bare copper conductors, unshielded with an overall lacket					0.18375	36.75
1 Single Pair 2	4 Awg. Strande		1,000	ft	0.21738	217.38
			12	hr	95.00	1,140.00
ı - Low voltage	termination & te	ing	12	hr	95.00	1,140.00
End user training of installed equipment				hŗ	98.00	392.00
System documentation and 'As Built' drawings					1,000.00	1,000.00
Reimbursement for travel and work expenses					500.00	500.00
						25,883.39
					1 000 00	1,000.00
			4	ea	13.75	55.00
MBATB, Mega-l	Baton Clamp, E	ck Finish.	36	ea	13.50	486.00
ı - Mounting of I	oaton pipes	To the Table	36	hr	95.00	3,420.00 4,961.00
			S	Subtotal		
	Descrip  6/2 Stranded ba verall jacket +14  CAT6 23 AWG. elded with an oval Single Pair 22  fually shielded oval to the control of the control  at Low voltage of installed equivation and 'As Burntravel and working the control of th	Description  5/2 Stranded bare copper conductorall jacket +14AWG THHN CAT6 23 AWG 4 PAIR Solid barelded with an overall jacket of Single Pair 24 Awg. Stranded to dually shielded with an overall jacket now voltage cable pulls now voltage termination & test of installed equipment ation and 'As Built' drawings or travel and work expenses  MQSB Mega-Quick Pipe Splice solvertical Working Load: 600 Pour	Description  6/2 Stranded bare copper conductors, verall jacket +14AWG THHN CAT6 23 AWG 4 PAIR Solid bare copper elded with an overall jacket of Single Pair 24 Awg. Stranded tinned copper fually shielded with an overall jacket.  In - Low voltage cable pulls of installed equipment attorn and 'As Built' drawings of travel and work expenses.  MQSB Mega-Quick Pipe Splice sched 40, Vertical Working Load: 600 Pounds MBATB, Mega-Baton Clamp, Black Finish.	Description  Description  QTY  S/2 Stranded bare copper conductors, verall jacket +14AWG THHN  AT6 23 AWG 4 PAIR Solid bare copper elded with an overall jacket of Single Pair 24 Awg. Stranded tinned copper dually shielded with an overall jacket.  - Low voltage cable pulls 12 12 12 12 12 12 12 12 12 12 12 12 12	Description  QTY  U/M  S/2 Stranded bare copper conductors, verall jacket +14AWG THHN  CAT6 23 AWG 4 PAIR Solid bare copper eled with an overall jacket of single Pair 24 Awg. Stranded tinned copper dually shielded with an overall jacket.  1 - Low voltage cable pulls 12 hr 12 hr 12 hr 12 hr 14 hr 15 hr 16 installed equipment 12 hr 17 hr 18 hr 19 hr 1	Description  QTY  U/M  Each  3/2 Stranded bare copper conductors, verall jacket +14AWG THHN  CAT6 23 AWG 4 PAIR Solid bare copper elded with an overall jacket of 1 Single Pair 24 Awg. Stranded tinned copper dually shielded with an overall jacket.  1 - Low voltage cable pulls of 1 - Low voltage termination & testing of installed equipment o

Page 3

Sales Tax (0.00)

**Total** 







# **Estimate**

Date	Estimate #
7/16/2018	ES-988561

Bill To
McKnight Crossings Church of Christ 2515 S. McKnight Road St. Louis, MO 63124

Account #	Terms	Rep
		MA

P.O. Number	Project	
		1000

Description	QTY	U/M	Each	Total
			a sa	
ETC SELD40HI-0 Selador Desire Series D40 Studio HD LED fixture - White	14	ea	1,493.70	20,911.80
ETC 400SC Safety Cable 32'	14	ea	8.45	118.30
Lex DMX-5P-10 5 Pin DMX Extension 2 Pair Shielded Cable, Neutrik Black/Gold Connectors 10'	14	ea	31.655	443.17
Lex DMX5P-TERM 5 Pin DMX Terminator	. 3	ea	18.24	54.72
System installation - Prep, mounting & focus of lighting fixtures	. 10	hr	95.00	950.00
Pre sales tax total				22,477.99
	5	Subtotal		553,322.38
	<b>—</b>		·· (0.00)	
	8	ales Ta	X (U.UU)	\$0.00





# Exhibit F – Bid from Arch City Audio Visual Services

# **Bid from Arch City Audio Visual Services**

# Arch City Audio Visual Services

5021 Fyler Ave. SAINT LOUIS, MO 63139 (314) 329-1805 robert@archcityav.com



ADDRESS

McNight Crossings Church of Christ 2515 S McNight Rd St. Louis, MO 631234

SHIP TO

McNight Crossings Church of Christ 2515 S McNight Rd St. Louis, MO 631234

ESTIMATE # 1934 **DATE** 08/29/2018

ACTIVITY	QTY	RATE	TMUOMA
Product OVATIONE160WW Ovation E-160WW Includes: Light Engine Only, powerCON Power Cord - NO LENS	5	879.00	4,395.00
Product OHDLENS19 19 Degree Ovation Ellipsoidal HD Lens Tube	5	199.00	995.00
Product OVATIONE910FC Ovation E-910FC Includes: Light Engine Only, powerCON Power Cord - NO LENS	6	1,199.00	7,194.00
Product OHDLENS19 19 Degree Ovation Ellipsoidal HD Lens Tube	6	199.00	1,194.00
Product OVATIONE160WW Ovation E-160WW Includes: Light Engine Only, powerCON Power Cord - NO LENS	4	879.00	3,516.00
Product OHDLENS19 19 Degree Ovation Ellipsoidal HD Lens Tube	4	199.00	796.00
Product CHAMQUICKQ10 Lighting Console	1	1,650.00	1,650.00
Product DMX5P5FT 5-Pin 5' DMX Cable	15	15.00	225.00
Product RDMXSPLITTER8 RDMX Splitter 8 RDM/DMX Opto-Splitter Includes: IEC power cable	1	399.00	399.00
Product POWERCONEXT5FT powerCON Extension, 5 ft (3x14awg cable)	15	43.99	659.85
Product SC07 Professional Safety Cable	15	4.69	70.35
Product CLP-15N Narrow Half Coupler	15	12.40	186.00
Equipment Rental:Lift Scissor lift rental including drop off and pick up. One week	1	750.00	750.00



# **Exhibit F.2**

use for electricians and Arch City AV			
Service  Labor charge to hang and focus lights on new pipes, progeonsole. Based on two techs one day. All rigging and electrical and date wiring to be preformed by licensed and qualified electrician and is not reflected on this estimate.		800.00	800.00
Service Labor charge and materials for Brda Electric to install wire and power	1	5,700.00	5,700.00
Here is an estimate for the services and/or products you requested.	SUBTOTAL DISCOUNT 10%	e mai per e se maine se y agranda e propries e propries e m	28,530.20 -2,853.02
	TOTAL	\$2	5,677.18

Accepted Date



# **Exhibit F.3**



laif Earnhair. I) io narioneamhar <sub>leis</sub> mail comb

#### **RE: McKnight Crossings Church Lighting**

Michael Barton <michael@archcityav.com>
To: Jeff McGlawn <jeffmcglawn@gmail.com>
Cc: Jeff Earnhart <jeffmarionearnhart@gmail.com>

Fri, Aug 31, 2018 at 1:21 PM

Hello Jeff,

Attached is a quote for new stage lighting. Thank you again for your patience as we have been buried with ongoing projects.

We didn't include work to be performed by an electrician including labor, power, rigging and data runs. This will need to be bid out separately. If you like the solution we came up with we can move to the next step and I can get our preferred electrician to come out for a site survey.

Also, if this looks like something you may want to move forward with we can order some demo fixtures for you to see.

Here's the break down on product by positon with links below to main products minus cables, clamps, etc.

#### Front Position:

Qty 5 of the Ovation E160WW

#### Side Position:

Qty 6 of the Ovation E910FC - 3 per side

#### Banner/Mural Lights:

Qty 4 of the Ovation E160WW-2 per side



# **Exhibit F.4**

		N	-	-0	-		:
0	m	N.	7	1)	11	1	
	. 0	14	- 1	10		-	

- (1) ChamSys QuickQ10 lighting conosle
- (1) RDMXSPLITTER8 dmx splitter

https://www.chauvetprofessional.com/products/ovation-e-160ww/ For sides and mural lights

https://www.chauvetprofessional.com/products/ovation-e-910fc/ For front positon lights

http://www.chamsysquickq.com/quickq-10/ lighting console

https://www.chauvetprofessional.com/products/rdmx-splitter-8/ Data splitter

Please let us know if you have any questions. Thank you again for the chance to perform this project with you!

Sincerely,

Michael Barton

Arch City Audio Visual Services LLC

5021 Fyler Ave.

Saint Louis, MO 63139

314.329.1805 wrk

314.583.0635 cell

Like us on Facebook!

From: Jeff McGlawn [mailto:jeffmcglawn@gmail.com]





# Exhibit G – Bid from Elite Enterprises

#### Bid from Elite Enterprises



10/15/2021

McKnight Crossings Church 2515 S. McKnight Road Saint Louis, MO 63124

#### Technical Systems Upgrades: Rough pricing by category

Based on several visits to your facility and discussions with staff/members, Elite is providing the following estimated prices for these systems to assist in your initial budgeting decisions. These are ballpark numbers that reflect our experience designing and installing these types of systems for Churches for over 30 years. As a design/build technology company with expertise in multiple areas, we are uniquely positioned to help you get the right systems to meet your needs. We hope these figures are helpful. The next step will be specific designs with accurate costs once we know which direction you would like to go and where your priorities are.

<u>Projector and Screen:</u> This estimate assumes that we will be utilizing the latest in screen technology, allowing for higher black levels, better contrast, and more saturated colors in higher ambient lighting applications, avoiding the typical washed-out, front projection look.

- -1 High-quality, laser based projector, HD resolution with 8000 lumens
- -1 appropriate long throw lens (maintain current screen and projector locations)
- -1 High-quality, motorized projection screen, tab-tensioned, ALR screen material (ambient light rejecting), screen size approximately 138" wide by 75" to 77" tall image, 16:9 aspect ratio
- -Estimated installed price: \$20,000.00 -Upgrade to a 4K projector: add \$9,000.00

<u>Streaming Camera System:</u> System based on using a software based A/V mixing solution that you are currently using (PC running OBS).

- -3 HD (1080P) broadcast quality PTZ (pan/tilt/zoom) cameras with 30 X zoom and NDI network video
- -3 standard camera mounts
- -1 Joystick/Keyboard camera controller
- -1 PoE network switch
- -Bulk cable, hardware, cables etc. for installation
- -Estimated installed price: \$12,000.00
- -Add a 4-CH. HDMI A/V streaming mixer and remove NDI option on cameras: add \$1,500.00
- -Add hardware encoder, single stream: add \$800.00

Elite Enterprises, Inc. 1250 Jungermann Rd., St. Peters, MO 63376 (636) 939-4474 info@elite1988.com







Sound System Upgrades: Based on an analysis of your current system and a discussion of your needs.

- -Use existing loudspeakers, including powered floor monitors
- -Using existing wireless microphones with new antenna/power distribution
- -Install DSP (digital signal processor) for mixing, control, and loudspeaker management
- -Commission system to maximize performance in the auditorium for local sound
- -Install a programable control processor with custom programming to include simplified manual control of the system with a separate mix for the monitors and the on-line stream. System will include presets and other customizable features to assure reliable, repeatable results with less tec-savvy operators.
- -Controls via iPad and a wall or table mounted color touch screen
- -Install DSP, wireless mics, and other electronics in an equipment rack

Please note that this quote includes using a good quality used control processor and touch screen. The included processor will also be used to automate/control the video projection system.

#### Estimated installed price: \$16,000.00

New House Lighting System: Instead of installing a new high-voltage lighting system with new high-voltage wiring (old wiring will not support phase dimming), new high-voltage phase dimming our design is based on using high-quality LED recessed fixtures that run on low-voltage wiring. High-quality, DMX controlled power supplies are used that power the lights and provide all control. There are no power supplies or drivers in each fixture (failure points) and no service is required at the LED fixtures. Low-voltage cable (Class 2) does not require conduit and is cheaper and easier to install. Elite is experienced in DMX lighting control and can integrate the new lighting system with your audio and video controls to create an easy-to-use and reliable system for volunteers.

- -66 Low-voltage LED replacement fixtures (8"), lumen output will vary from 1200 to 5200 depending on fixture location, 3500 K (Color Temperature-warm), CRI 90+
- -DMX controlled power supplies
- -DMX decoder
- -Equipment rack
- -4 control keypad
- -low-voltage cable

#### Estimated installed price: \$55,000.00

Please note that before the new lighting can be installed, the existing high-voltage fixtures and dimming system will need to be removed and the wiring properly capped by a licensed electrician. Elite partners with an experienced contractor for these types of projects or we can work with your electrician. The cost for the electrical contractor is not included in this price. A rough estimate for this work is 3-5K.

Stage Lighting: Once the House Lighting is completed, much of the stage will be taken care of. I would budget an additional 6-10K to replace the current 4 spots and possibly add some additional spots to properly light the stage.

Thank you for the opportunity to be of service. We look forward to working with the staff and membership of McKnight Crossings Church to grow your ministry.

 $Elite\ Enterprises, Inc.\ 1250\ Jungermann\ Rd., St.\ Peters, MO\ 63376\ (636)\ 939-4474\ info@elite1988.com$ 



# **Exhibit H.1**

# Exhibit H – Bid from HD Media

#### Bid from HD Media

M Bret Blackford <br/>
- Spet Blackford & Dret\_blackford@yahoo.com><br/>
- Friday, November 5, 2021 12-33 PM<br/>
Bret Blackford, Blackford, M. Bret<br/>
- Blackford, Blackford, M. Bret<br/>
- Dret Blackford, Blackford, M. Bret<br/>
- Dret Blackford, Blackford, M. Bret<br/>
- Bret Blackford, Blackford, M. Bret Blackford, Blackford, M. Bret Blackford, M.

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

#### MEMO to FiLE: Bid response from HD Media

----- Forwarded Message ----From: Jeannie Britzmann <a href="mailto:sips:org">jbritzmann@mcknightcrossings.org</a>
To: Bret Blackford <br/>
Sent: Wednesday, November 3, 2021, 02-40-42 PM CDT
Subject: Fwd: Church Lighting, Electrical, Low Voltage, and AV Budgets

#### Forwarded to you...

Good afternoon

So first off, I want to Thank you and the church for thinking about us for your project!! I think it could be a really fun one to be involved with

That being said - I think once you all meet with an Architect or a Design firm and drill down on the Final Design of the Church, Front Wall , AV (Mixer) Locations, Camera Locations - we can really drill down on the Costs associated with the Sub systems

So here is my Run Down:

- 1.) Lighting Control need to replace the old GE System
  a.) I would replace this with a Vantage Centralized Lighting Panel this would have the ability to Dim and Control about 30-40 Loads of Lighting
  b.) Remember a load of lighting can be 1 single light or it can be a Group of 6-10 Lights = a Load
  c.) I have included the Following 1 Housing, 4 Modules, Processor, Power Supply, and 4 Generic Keypads this can be added too or subtracted
  d.) This does not factory in High Voltage Electricians cost I have several electricians we work with and can work on this number for you I would guess it would be around \$4000 \$6000
  e.) The Lighting Panel, Modules, Processor and Programming from HD Media Systems will be around \$15,000

- 2.) House Can Lights
  a.) Currently have Par 38 in an Older Gotham Style Light Fixture
  b.) Two Options here
  a.) Option A is just change the bulbs to a more higher Lumen output and Remove the Lens and Glass the Glass Optics on the Old Fixtures are horrible
  72 Lights x 45.00 (per Bulbs) = \$3,240 for the parts (then we need to discuss and Lift and Removing Pews so we could install them
  The lights you currently have are 1200 Lumens, I can get some around 2000 Lumens
  b.) Option B replace the entire Fixture I can get an 8' High Power LED Remodel Fixture for \$200 per fixture = \$14,400
  This would be a 3500 Lumen Light and Way better Optics
  But this involves an Electrical on each light
  This option also involves Drywall repair
  But this is the best option for more light in the space

- 3.) Additional House Lights Track Light Option
  A.) This could be 2 Set of 40' Long Track down the Center Isle B.) This could have upwards to 20 Lights per track
  C.) Total Costs for the Parts, and Power supplies is around \$25,000-\$30,000
  D.) I would need to meet with an electrician to get you cost on what the electrician would charge

- 4.) DJ Lighting for the Stage
  A.) This would be 16 RGBWW Par Lights on the Upper Loft Area by Projector)
  B.) This would be a DMX Controller and DMX Cable to the PC Area
  C.) This would be around \$15,000 (this is including a rough installation cost, again we would need to meet final and hear what the final plan is for the Space and then we could drill down on Costs
- 5.) 32 Channel Digital Console with iPad \$6,500 again this has labor for install, programming and training but if we are moving the audio booth -, we need to factor in those costs and I would need a final layout

- 6.) Multi Camera FB Streaming System a.) 3 PTZ Cameras on stand b.) Camera Selector and Switcher System c.) Rough Install and Training d.) \$22,000 -\$25,000

- a.) New 12,000 Lunen Laser Projector
  b.) Special Lens for the Throw
  c.) New Motorized 133" Screen
  d.) Parts, Labor and Setup (with Rough install price ) \$24,000 -\$27,000

When looking at my bid software and using the Highest Numbers in these sub groups - i'm around \$140,000k for all of the Systems we Discussed

#### This doesn't included electricians costs

I would love to sit down and see the final design of the space, drawings, and maybe even partner with the Architect or Design team - so we can make sure we provide you all with the best Products for the space, and for the Budget.

I hope this covers all areas

Let me know if you have any questions or if you all want to meet again to drill down on these items more

Thanks.

Aaron Schneider
HD Media Systems
573-382-7596 -Cell Phone
Email: aschneider@hd-mediasystems.com

2800S Brentwood St Louis, MO 6314 314.858.1156 Offi

1606 North Kingshighway Cape Girardeau MO 63701 573.803.1460 Office

www.hd-mediasystems.com www.stereoone.com



# Exhibit I.1

# Exhibit I – Jeff Kryder discussion on Auditorium Project

11/13/21, 6:05 AM

Yahoo Mail - rsp: 11.11.2021: MX Auditorium Project - Jeff Kryder

#### rsp: 11.11.2021: MX Auditorium Project - Jeff Kryder

From: M Bret Blackford (bret\_blackford@yahoo.com)

To: bret\_blackford@yahoo.com

Date: Saturday, November 13, 2021, 06:04 AM CST

MEMO to FILE: Jeff Kryder, Senior Minister discussing auditorium needs

—— Forwarded Message ——
From: Jeff Kryder <a href="mailto:lkryder@mcknightcrossings.org">kryder@mcknightcrossings.org</a>
To: M Bret Blackford <a href="mailto:blackford@yahoo.com">bret: Blackford <a href="mailto:bret">bret: blackford@yahoo.com</a>
Sent: Friday, November 12, 2021, 08:18:46 AM CST
Subject: Re: Fw: 11.11.2021: MX Auditorium Project - Jeff Kryder

Jeff

Thanks you fort he detailed response. Most helpful. A couple follow up questions ...

- regarding on-line worship:
  - Does this need to be live or can it be uploaded later on Sunday? I'm guessing preference is live but do you feel that is necessary if it also carries with it extra cost and technical challenges. If we started with uploaded later on Sunday (not live) we will probably upset a couple people but can we live with that? Will we loose people?
  - Does it need to be the entire worship or just the sermon? Again, I'm sure preference is entire worship but if it saves cost and increases reliability is just sermon ok?
  - · What do we need to start with and where do we want to be in 6-months to a a year?

A year ago, my view was that "live" would be expected for the community building aspect. Thus far, this has not been our experience. Possibly, because once we went back to the building and all staff resources were focused at the building and online became a derivative of the in-house. Also possible, is that creating online community is much more difficult than it first sounded. I think some of both are true. For now, I believe we can accomplish 80% of our online goals by publishing the stream shortly after the live worship.

I would build the system so that "live" is a future possibility.

I believe our worship, once the lighting and backdrop are fixed, is rather unique. Not many churches use the laity like we do - women, teens, black, and white, along with songs from our tradition, and contemporary music. This will not appeal to everyone. However, I believe others will find this multidimensional worship much richer than many of the more progressive growing churches. For this reason, I believe the entire worship service is important, as the preaching should fit within the whole of worship.

We start with lighting - foundational. We do the stage lighting while we are doing the house lighting for project convenience. We redo the stage and the front wall at the same time since we will need to be out of the auditorium during that time, meeting in the gym.

The cameras set in place might come next

Then, next phase is to move to digital and integration of all the pieces (new or old) - projection, lighting, audio, to software with presets for ease of use.

I think not doing live will really take off a strain, and add some new demands immediately following church. I would set up the "livestream" person in the little room where they can adjust audio, and cameras, for the best livestream production.

I believe all this can be done in 6 months. Then, we assess, what is next? I really don't think we have yet tested the market for what could happen with a digital ministry focus. My hunch is that there are many people who will not come to church, for various reasons, pandemic or not, who want to connect with someone, why not us.

Thanks

On Thu, Nov 11, 2021 at 5:07 PM M Bret Blackford <br/>
| Spret\_blackford@yahoo.com | wrote:

Jeff,

Thanks you fort he detailed response. Most helpful. A couple follow up questions ...

regarding on-line worship:

1/3



# **Fxhibit I.2**

11/13/21 6:05 AM

Yahoo Mail - rsp: 11 11 2021: MX Auditorium Project - Jeff Kryder

- Does this need to be live or can it be uploaded later on Sunday? I'm guessing preference is live but do you feel that is necessary if it also carries with it extra cost and technical challenges. If we started with uploaded later on Sunday (not live) we will probably upset a couple people but can we live with that? Will we loose people?
  Does it need to be the entire worship or just the sermon? Again, I'm sure preference is entire worship but if it saves cost and increases reliability is just sermon ok?
  What a way need to start with substantial and the service of the service
- What do we need to start with and where do we want to be in 6-months to a a year?
- regarding the stage:
   I've heard from a couple people that the stage is not ideal and should be changed but no one has offered a vision for desired stage. Do you have an idea of what you would like the stage to look like or is this something where we should get a committee to discuss. (I do not think the stage has to be done in coordination with the other projects items with the exception of possibly lighting changes directly above the stage)

---- Bret

Forwarded Message -

--- Forwarded Message --From: Jeff Kryder <jkryder@mcknightcrossings.org>
To: Blackford, M. Bret <<u>mblackford@archrsc.com</u>>
Cc: <u>bblackford@mcknightcrossings.org</u> <<u>bblackford@mcknightcrossings.org</u> >; bret\_Blackford@Yahoo.com <<u>bret\_blackford@yahoo.com</u>>
Sent: Thursday, November 11, 2021, 11:51:08 AM CST
Subject: Re: MX Auditorium Project - Jeff Kryder

Hi Bret

Thanks for reaching out.

Q1: What problems are we currently experiencing that we hope to solve with this project?

- Quality Online With online we started fast, but the technical issues (regardless of source) were highly frustrating to people, and their tolerance level was low. Often they would go to another church service, or just quit doing online. I heard this from multiple people, again for reasons we could control, and reasons we could not.

  Some people will not come back to building, maybe ever. Betty Vaughn for instance doesn't feel like she can as long as Richard is at home. Louis West, Alice Ferry, Ifffany Henagean, WC and Virginia Conley, and others.

  Others used the online during a sickness, or a child's sickness.

  Others used the online later in the day as they worked on Sunday morning, or were traveling, etc.

  We have some, Ferri Correnti, tuned in online, but due to anxiety issues, will not come to Mcknight on a Sunday.

  Others, Colleen, Tim and Mary Ann, were surfaced through the online effort.

  I do not see online as a substitute for in-person. I believe the potential for building a real community of discipleship this way is not that high. However, the online will continue to have a place. Having it done well might be likened to having a website or doing effective social media outreach. It will not win the world, but it is difficult, in this day, to carry on without it.

  A frequent mention by viewers "We can only hear the praise team," "The lighting is terrible," "The wall behind the stage is bad." "Is this your main auditorium?" "The service went in and our." I had to reboot several times." "I couldn't watch any longer." "Could we see the congregation?" (Especially important when congregation is making remarks)

  I am thinking that 80% of what we would like to accomplish doesn't have to be real-time, but close to it.

  Point There will be a continued need for a quality online experience. I believe if the quality and ease of presentation was there, we can expand our outreach and promotion to attract new people. This is an untapped evangelsitic undership and the support of the produce of the produce of t

- wall is redone.
  Sound Board. In general, our sound, is our current strength. However, I believe the benefit of digital is to remove the constant adjusting, setting, and resetting that takes place. Whenever someone besides Brian (Jeff M, Quain, Chris Jones, faces the board for that week, they often do not understand why things are the way they are. The current system additionally has the downside that one of our technicians must be there for special events weddings, funerals, Christmas eve, etc. Additionally, I really like the idea of having mics hanging down in the auditorium to pick up on congregational singing, a value of our tradition.
  Build out a simple clean station in the back for the tech team. The current system uses 3 different types of tables.
  I like the idea of digital presets that could set the stage for a Sunday or a funeral lighting, mics, video, that a volunteer can handle.
  Bottomline they all seem to go together with video possibly being able to wait a couple of years. 2ndly, we could get by with the current sound board, though Jeff the Vendor is a sound expert, and I believe can deliver to us a digital product that eliminates a bunch of the issues resulting from our current approach.

On Wed, Nov 10, 2021 at 7:13 AM Blackford, M. Bret < mblackford@archrsc.com > wrote:



### **Exhibit I.3**

11/13/21 6:05 AM

Yahoo Mail - rsp: 11 11 2021: MX Auditorium Project - Jeff Kryder

I am glad you will soon be able to get some time to decompress. You need a couple months of sabbath.

Before you leave I was hoping to get your thoughts on the "auditorium project". As I dig in I find that the scope/requirements are not as clear as I would like and hoping the key stakeholders (you and Jeremy) can help me tighten things up. I met with Jeremy earlier this week (he still has some homework to get back to me) and now I'd like your thoughts on the project.

Can you respond with your answers to the questions below. I don't need answers today but sometime this week would be helpful.

- Q1: What problems are we currently experiencing that we hope to solve with this project?
- Q2: What can't we do currently that we hope we can accomplish after the project?

The project covers several areas: lighting, light controls, soundboard, video, stage construction, etc.

Q3: Is there a prioritization to the list of things hoped for with the project? Are they all equally important or if they could be phased in which areas are most important and which least important (nice to have but not necessary)?

Q4: How much of a priority is on-line worship? And how important is live streaming compared to sermon being available on-line sometime later on Sunday?

#### Jeff, let me know if you would add anything to the list below ...

Current Pain-Points\* (not in order of importance):

#### 1. Outdated Auditorium Lighting Controls

The lighting controls for the auditorium are a set of old, mid-70s analog push-activated control knobs. These controls are hard to understand, hard to operate, and when they eventually fail will be difficult and time consuming to fix

Many members have commented that the auditorium lights, even at maximum, are still dim.

#### 3. Dim/Inadequate Stage Lighting

Current overhead lighting is inadequate for on-line video. Video results (without any additional floor spot lamps) is poor and does not reflect the worship experience well.

#### 4. Extensive Worship Set-up

Prior to worship the audio and video system need to be brought on-line, checked, and calibrated/set.

#### 5. Several Single Points of Failure

Like many congregations, MX relies on specific key people to make the Sunday worship operate smoothly.

- The current soundboard needs a skilled technician and operating it is a learned skill (requires an apprenticeship).
  Video recording: usually performed by the same individual (not a deep bench if someone unavailable)
  Streaming set-up: usually performed by the same individual (not a deep bench if someone unavailable)

# 6. Auditorium Stage and Back Wall Showing Age

The backwall needs maintenance and paint. May be a good time to revisit the current stage and backwall and rebuild so it complements the in-person and on-line worship.

#### 7. Auditorium Lacks Flexibility

Current use of pews limits the use of the auditorium. Pews are heavy and fixed and cannot be adjusted to create a different mood. Desire for pews to be removed and replaced by individual chairs.

[\*] List summarized by Bret Blackford based on review of several different documents and conversations. List still needs to be formally accepted by Jeff Kryder and Jeremy Picker to ensure it reflects their thoughts.

Jeff Kryder Senior Minister McKnight Crossings Church of Christ

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# Exhibit J – Jeremy Picker discussion on Auditorium Project

11/13/21, 5:43 AM

Yahoo Mail - follow-up: MX Worship wish-list - jPicker

#### follow-up: MX Worship wish-list - jPicker

From: M Bret Blackford (bret\_blackford@yahoo.com)

To: jeremypicker@gmail.com

Cc: bret\_blackford@yahoo.com

Date: Thursday, November 11, 2021, 07:16 PM CST

Jeremy, thanks for the info.

As for your question re "several singe points of failure", I mean that we do not have a deep bench. If key players (you, Brian Hill, etc.) are unavailable are we able to manage no problem or do we need to scramble?

# A couple follow-up questions.

- 1. How important is on-line worship (see Q4)?
  - 1. Does it need to be live?
  - 2. If not live do we need the entire service or just the sermon uploaded to YouTube/facebook?
  - 3. How important is this to do now?
  - 4. How many people does this serve? (20+ people watch live. If not live are people ok with uploaded sermon later in the day? If a few people upset is that ok as long as we provide an on-line worship service?)
- 2. Do you have a prioritization for the various enhancements listed below (see Q3)?

---- Bret

On Thursday, November 11, 2021, 05:11:43 PM CST, Jeremy Picker < jeremypicker@gmail.com > wrote:

Bret,

My thoughts in RED

Current Pain-Points[1] (not in order of importance):

1. Outdated Auditorium Lighting Controls

As noted in **Exhibit** A, the lighting controls for the auditorium are a set of old, mid-70s analog push-activated control knobs. These controls are hard to understand, hard to operate, and when they eventually fail will be difficult and time consuming to fix

#### AGREE

2. Dim Auditorium Lighting

Many members have commented that the auditorium lights, even at maximum, are still dim.

I agree that the lights are dim in some areas, but I don't care about that. The brightness is sufficient for what we use the room for.

1/4



11/13/21, 5:43 AM

Yahoo Mail - follow-up: MX Worship wish-list - jPicker

#### 3. <u>Dim/Inadequate Stage Lighting</u>

Current overhead lighting is inadequate for on-line video. Video results (without any additional floor spot lamps) is poor and does not reflect the worship experience well.

AGREE-the current stage lighting creates terrible shadows. Even if we have no video of the service, stage lighting would allow us to use the stage better on Sundays and for other events.

#### 4. Extensive Worship Set-up

Prior to worship the audio and video system need to be brought on-line, checked, and calibrated/set.

AGREE—However, ANY A/V setup we use will need a routine for turning it on. Our current projector is finicky with turning on. Our Livestream (which we would use for recording the service even if we aren't live-streaming) does not provide a seamless video experience. This has nothing to do with failure of equipment, but rather the limitation of the software.

#### 5. Several Single Points of Failure

Like many congregations, MX relies on specific key people to make the Sunday worship operate smoothly.

- The current soundboard needs a skilled technician and operating it is a learned skill (requires an apprenticeship).
- Video recording: usually performed by the same individual (not a deep bench if someone unavailable)
- Streaming set-up: usually performed by the same individual (not a deep bench if someone unavailable)

MOSTLY AGREE—Streaming setup and video is done by the same person. I don't know what you mean by "Several Single Points of Failure", and then list people. Can you please explain that more?

#### 6. Auditorium Stage and Back Wall Showing Age

The backwall needs maintenance and paint. May be a good time to revisit the current stage and backwall and rebuild so it compliments the in-person and on-line worship.

#### 100% Agree

I think one area that might not be on your proposal is changing to seats in the auditorium from pews. I believe this is much needed change. I believe the projector we are using, and where it is set up (back of the auditorium) causes it to be difficult to see video or darker images on the screen. By moving the screens to the side and having them backlit, it takes that problem out. I am not worried about having a system to turn everything on...as long as it is easy and reliable. This is helpful in being able to train new people as well. Simple and reproducible is what I want our mantra to be. Moving the sound board to digital, lights to an easier to use light panel will allow us to use presets for different people and situations.

Jeremy Picker jeremypicker@gmail.com 314.882.9782 Facebook Instagram

On Nov 11, 2021, 4:28 PM -0600, M Bret Blackford <bre>
blackford@yahoo.com>, wrote:

Jeremy,
A reminder I'd like your thoughts on this later today or tomorrow. Thanks!
---- Bret

On Monday, November 8, 2021, 12:18:55 PM CST, M Bret Blackford <a href="mailto:blackford@yahoo.com">bret\_blackford@yahoo.com</a> wrote:



11/13/21, 5:43 AM

Yahoo Mail - follow-up: MX Worship wish-list - ¡Picker

Jeremy,

Thanks again for taking the time to meet with me this morning. One of the main topics of discussion was the auditorium project. Instead of me summarizing what i thought I heard would you provide your responses. Can you respond with your answers to the questions below. I don't need answers today but sometime this week would be helpful.

Q1: What problems are we currently experiencing that we hope to solve with this project?

Q2: What can't we do currently that we hope we can accomplish after the project?

The project covers several areas: lighting, light controls, soundboard, video, stage construction, etc.

Q3: Is there a prioritization to the list of things hoped for with the project? Are they all equally important or if they could be phased in which areas are most important and which least important (nice to have but not necessary)?

Q4: How much of a priority is on-line worship? And how important is live streaming compared to sermon being available on-line sometime later on Sunday?

Below is a section from the attached draft. I think the below is correct but please let me know if these points should be amended or if anything else needs added.

#### Current Pain-Points[1] (not in order of importance):

#### 1. Outdated Auditorium Lighting Controls

As noted in **Exhibit A**, the lighting controls for the auditorium are a set of old, mid-70s analog push-activated control knobs. These controls are hard to understand, hard to operate, and when they eventually fail will be difficult and time consuming to fix

# 2. <u>Dim Auditorium Lighting</u>

Many members have commented that the auditorium lights, even at maximum, are still dim.

### 3. <u>Dim/Inadequate Stage Lighting</u>

Current overhead lighting is inadequate for on-line video. Video results (without any additional floor spot lamps) is poor and does not reflect the worship experience well.

# 4. Extensive Worship Set-up

Prior to worship the audio and video system need to be brought on-line, checked, and calibrated/set.

#### 5. <u>Several Single Points of Failure</u>

Like many congregations, MX relies on specific key people to make the Sunday worship operate smoothly.

• The current soundboard needs a skilled technician and operating it is a learned skill (requires an apprenticeship).



11/13/21, 5:43 AM

Yahoo Mail - follow-up: MX Worship wish-list - jPicker

- Video recording: usually performed by the same individual (not a deep bench if someone unavailable)
- Streaming set-up: usually performed by the same individual (not a deep bench if someone unavailable)
- 6. Auditorium Stage and Back Wall Showing Age

The backwall needs maintenance and paint. May be a good time to revisit the current stage and backwall and rebuild so it compliments the in-person and on-line worship.

[1] List summarized by Bret Blackford based on review of several different documents and conversations. List still needs to be formally accepted by Jeff Kryder and Jeremy Picker to ensure it reflects their thoughts.



#### Exhibit K.1

#### Exhibit K – Jeremy Picker discussion on Auditorium Project – follow-up

11/13/21, 12:39 PM

Yahoo Mail - Fw: follow-up: MX Worship wish-list - jPicker (answers)

# Fw: follow-up: MX Worship wish-list - jPicker (answers)

From: M Bret Blackford (bret\_blackford@yahoo.com)

mblackford@archcoal.com; bret\_blackford@yahoo.com

Date: Saturday, November 13, 2021, 12:37 PM CST

# MEMO to FILE: Q&A with Jeremy Picker

- Forwarded Message

From: Jeremy Picker <jeremypicker@gmail.com>
To: Bret <br/>
Sret <br/>
To: Bret <

Sent: Saturday, November 13, 2021, 12:30:16 PM CST Subject: Re: follow-up: MX Worship wish-list - jPicker

#### I'm sorry Bret, I missed these questions.

A couple follow-up questions.

- 1. How important is on-line worship (see Q4)?
  - a. Does it need to be live?
  - b. If not live do we need the entire service or just the sermon uploaded to YouTube/facebook?
  - c. How important is this to do now?
  - d. How many people does this serve? (20+ people watch live. If not live are people ok with uploaded sermon later in the day? If a few people upset is that ok as long as we provide an on-line worship service?)

I am a firm believer that live-streaming worship is good to do. Currently, it is literally a touch of a button. If we just do video for later upload or livestream, we are doing the exact same thing besides touching one button in the IPad. I don't think our current setup is the best, and I would change steaming to YouTube.

Over the weekend, a friend commented... If we had 20 people engaged every week in any other ministry, would we stop it or pour into it?

I don't know what the answers are.

Livestreaming is NEVER going to be 100% fool proof. Even the big churches have issues with it.

I'm not going to sweat whatever decision is made though. I realize that it isn't perfect. We're still using the same basic setup that I put together in March 2020 from Google searching and getting on discussion forums for worship ministers.

1. Do you have a prioritization for the various enhancements listed below (see Q3)?

3: Is there a prioritization to the list of things hoped for with the project? Are they all equally important or if they could be phased in which areas are most important and which least important (nice to have but not necessary)?

I believe that the upgrades we are looking into are all needs and not just wants. I think they are all eventually necessary...from lighting to projections to sound system to chairs instead of pews.

I would probably lean on the designers to see what they think...does it make more sense to do sound first, or get lighting done so they know how sound will bounce off of whatever is installed. I have no clue.

Jeremy Picker jeremypicker@gmail.com 314.882.9782

1/2





# Exhibit K – summarized comments from Jeremy Picker and Jeff Kryder

Below attempts to summarize the comments of Jeff Kryder and Jeremy Picker from the various inperson and email discussions (see Exhibit J & Exhibit K)

#### Jeff Kryder project comments summary:

- House lights Jeff did not specifically address existing house lights. Jeff did agree that Stage lighting, is terrible and needs attention. Lighting output is currently inadequate for in-house worshippers, and for online worship. Also, repeatedly warned that existing lighting controls will one day not work and will be difficult to repair. Lighting controls need to be updated to make operating the house lights and the desired new stage lighting easier.
- **Livestream is increasingly important.** With online we started fast, but the technical issues (regardless of source) were highly frustrating to people, and their tolerance level was low. Often they would go to another church service, or just quit doing online. I heard this from multiple people, again for reasons we could control, and reasons we could not.
  - o Some people will not come back to building, maybe ever.
  - o Others use the online during a sickness, or a child's sickness.
  - Others used the online later in the day as they worked on Sunday morning, or were traveling, etc.
  - We have some, Terri Correnti, tuned in online, but due to anxiety issues, will not come to Mcknight on a Sunday.
  - o Others, Colleen, Tim and Mary Ann, were surfaced through the online effort.
  - I do not see online as a substitute for in-person. I believe the potential for building a real community of discipleship this way is not that high. However, the online will continue to have a place. Having it done well might be likened to having a website or doing effective social media outreach. It will not win the world, but it is difficult, in this day, to carry on without it.
  - I am thinking that 80% of what we would like to accomplish doesn't have to be realtime, but close to it.
- Point There will be a continued need for a quality online experience. I believe if the quality and ease of presentation was there, we can expand our outreach and promotion to attract new people. This is an untapped evangelistic tool.
- Improve in-person worship video screen used to display songs, scripture verses, etc. Currently it is hard for several to read.
- Jeff feels current audio is good but wants to make sure it is easy to operate. The current system additionally has the downside that one of our technicians must be there for special events weddings, funerals, Christmas eve, etc.
- Wants digital presents wherever available audio, lighting, video streaming, etc.

#### Jeremy Picker project comments summary:

- **House lights** are a little dim but not bad. No compelling reason to update. **Stage lighting**, however, is terrible and needs attention. More light and less shadows is needed. Also, lighting controls need to be updated to make operating the house lights and the desired new stage lighting easier.
- **Prefers livestream over later upload.** Does not consider livestream significantly more challenging than record and upload later. Note: It is a given that livestream will occasionally have glitches. This is unavoidable, regardless of equipment, personnel, and money spent.
- Jeremy would like to **replace the pews with individual chairs**. Thinks this allows more functionality to the auditorium.
- **Reproducibility** is a key mantra for Jeremy. Lights, audio, streaming should be constant each Sunday and easy enough to allow several trained members to operate.
- **Stage and backdrop are bad**. A clean/modern stage and backdrop that also works well on video is very much needed.
- All items of the "Auditorium Project" are needs and not wants.

