



Fearing's Audio-Video-Security

722 Walsh Road
Madison, WI 53714

Richland County
181 W. Seminary St.
Richland Center, WI 53581

608-647-3110
barbara.scott@co.richland.wi.us

Project Number 100743A

11/4/2020 Page: 1 ** Proposal **

608-443-2595/Fax 443-2597

Richland County Courthouse 608-649-5922
Barb Scott
181 W. Seminary St.
Richland Center, WI 53581

barbara.scott@co.richland.wi.us

Project Title..: Courtroom AV Upgrade

Mfg-Item No.	Qty Description	Unit Price	Extended
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SCOPE OF WORK:

Courtroom AV update to improve audio and video quality, bring the Polycom system up to date so it can communicate with outside participants, provide a way to integrate with new CCAP standards and re-wire the space for changes in the room layout. To accomplish this, we propose the following components and design:

- (3) new HD PTZ SDI cameras. (2) will replace the cameras mounted on the wall to the left and right of the bench and will have 12x zoom capability. The third camera will be installed in a new location on the wall to the left of the projection screen and will have a 30x zoom to be able to capture the bench and witness locations.
- SDI windowing processor for the camera feeds to provide a custom view of all 3 cameras at the same time for far side participants to see multiple views in the room at the same time. **Please note that presentation video will be sent separately to the Polycom.
- Polycom Group 500 720p codec with one year service agreement integrated into the system with the windowing processor as the camera feed, a content video input feed, an audio feed from the audio system and an HDMI output feed into the video system for viewing.
- Crestron Digital Media presentation system for video switching, routing and over all AV system control.
- 10" table top Crestron touch panel for over all easy to use custom system control. This will control audio levels, projector power, Polycom controls, camera controls, VOIP dialing and video switching for the room. The touch panel will live on the judges bench in place of the existing panel.
- Fixed wall mounted Dalite UBT contour projection screen with HD progressive 1.1 gain screen material in a standard 16:10, 164" diagonal with an 87" high x 139" wide projection surface. This will be installed in place of the existing motorized wall mount screen. **Customer to have electrician remove the existing screen and provide any required wall patching.
- Panasonic 8000 lumen WUXGA (1920x1200) wall mounted using a dual stud wall mount (on the opposite wall as the screen) laser projector and custom lens to accommodate the roughly 39' throw distance.
- 24" desktop 16:10, WUXGA (1920x1200) monitor at the court reporters desk with mirrored video feed of what is on the projector. This will be an IPS display for optimal viewing. Please note that this monitor may not be able to be controlled with the AV system.
- (2) HDMI input plates will be installed in new floor boxes (**AV contractor provided, electrical provider installed) at the plaintiff and defense table locations. 12' HDMI cables will be provided to connect to the inputs in the floor boxes.



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Project Number 100743A

11/4/2020 Page: 2 ** Proposal **

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	<p>-Biamp audio processor and AEC expander to handle mixing, routing and processing of audio signals as well as providing a VOIP interface for direct conference dialing through the customer's Mitel phone system.</p> <p>-(4) new white speakers, each is a 2-way speaker with 8" woofer and 1U rack mounted amplifier with 120 watts x 2. (2) speakers will be installed in the corners of the room covering the main court area to replace the existing speakers and the other (2) will be installed up on the beam replacing the existing 3 speakers to cover the audience area.</p> <p>-(3) new digital wireless microphones for mobile use. (2) over the ear mics with body pack transmitters and one hand held microphone. The antennas are to be combined and front panel included 1/4 wave antennas will be mounted to the combiner in the rack.</p> <p>-New 22-2-shielded plenum cabling to be pulled from each of the (8) required locations to the new rack location. All wired microphones will be provided by CCAP as well as a CCAP provided digital audio system. Wiring is to be terminated to new XLR wall plates or an in-line disconnect depending on the location and ability to install a plate and then will terminate to the CCAP audio system, which will provide direct looped out, microphone level audio feeds to the AV systems Biamp processor. This must be closely coordinated with CCAP personnel for both system drawings and scheduling coordination.</p> <p>-AV system is to provide (2) sub-mixed audio feeds to the CCAP audio system as well. One feed is to have all (3) wireless mics sub-mixed and the other shall have any program audio sub-mixed.</p> <p>-(2) new floor boxes are to be provided and are to be installed by a customer provided electrical contractor. The floor box is to have recessed 4 gangs of space. There is to be a duplex decora outlet (provided and installed by electrical contractor), HDMI white decora plate, XLR white decora plate and a white 6 port strap for customer provided existing data lines. The floor boxes are to be located in place of the existing 2 floor boxes, one at the defense table and one at the plaintiff table.</p> <p>-(2) 14U pull out rack frames for equipment. They will be installed in a customer provided custom credenza and are intended to also provide 6U of space for CCAP audio equipment. **IT IS IMPERATIVE THAT THE SIZE OF THE CREDENZA SPACES IS DESIGNED TO ALLOW THE RACKS TO FIT AND MUST HAVE VENTILATION DESIGNED TO CREATE AIRFLOW SO AV EQUIPMENT CAN MAINTAIN AN IDEAL OPERATING TEMPERATURE. THE INSIDE DIMENSIONS OF EACH OF THE 2 CABINET SPACES MUST BE AT LEAST 23" WIDE X 21" HIGH AND 22" DEEP WITH A MINIMUM OPENING FOR THE RACK TO PULL OUT MUST BE 21" WIDE AND 31" HIGH. POWER MUST ALSO BE PROVIDED IN BOTH CABINET SPACES TO POWER THE EQUIPMENT.</p> <p>-All other AV cabling is also to be replaced and run to the new AV rack location.</p> <p>**Customer/electrical contractor to provide new cable paths in the floor as needed as the flooring is going to be replaced. Paths are to be determined and specified by AV contractor, installed by electrical contractor.</p> <p>-Crestron system programming and over all system testing. This must include providing the original Crestron source code to the customer upon request at no additional charge.</p> <p>-(4) hours of system training split into 2 training sessions.</p> <p>-System schematics, layouts and elevation drawings are to be provided to the customer for approval before installation and as-built drawings are to be provided within 30 days of system completion.</p>		



FEARING'S
AUDIO • VIDEO • SECURITY

Project Number 100743A

11/4/2020

Page: 3

**** Proposal ****

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	<p>Sperate assisted listening system- This is to bring the hearing assistance system up to ADA requirements and shall include:</p> <ul style="list-style-type: none">-FM transmitter base station, rack mounted with remote antenna option. Antenna is to be mounted behind the credenza or potentially inside as long as it is not obstructed by the rack.-(8) lithium rechargeable body pack receivers.-(8) universal earphones.-(2) neck worn hearing loops.-(1) 12 unit advanced charging dock for receivers.-(1) hearing assistance sign for customer installation. <p>- PREVAILING WAGE: This project will be subject to prevailing wage rate.</p> <p>- Fearing's to provide scaffolding capable of safely reaching install area.</p> <p>- Network connectivity will be done in coordination with Richland County MIS.</p> <p>IMPORTANT NOTES:</p> <ul style="list-style-type: none">- Due to the Covid-19 situation around the world, please note that our vendors and their supply chains may experience delays and backorders out of our control. Fearing's shall not be held liable for delays related to this. We will do our due diligence to offer potential alternatives, if this happens and effects the project time line, however they may be at an additional expense to the customer if opted instead of adjusting the time line.- Cancellations to Fearing's scheduled work initiated by others within a week of scheduled time will be subject to cancellation fees based on time lost and other incurred costs and their effects on this and other scheduled projects.- Quotes over 30 days - or - projects sold within the 30 days but have a delayed start date may be subject to price increases based on the cost of materials and or labor rising.- Proposal based on the work being performed during normal business hours.- Customer to provide all 120V AC power for project including racks, projectors, equipment and any other location.- Customer to provide network connections and IP addresses for devices in AV system as needed as well as any IT support.- This proposal is based on cable paths being provided by others and being free of obstruction in walls, ceilings and or conduit. It obstructions do exist, additional cabling, labor and or devices may apply and are not included.- Customer to provide any ceiling grid removal and or repair as well as any other cosmetic needs like painting, millwork, etc. for the project.- Customer to provide a location for disposal of component packaging as well as misc job waste/scraps.- The projector and or camera mount is a standard mount. In rare occasions buildings and/or ceilings may vibrate causing the projector or camera to vibrate, causing the image on the screen to move. This is a rare occurrence, but in the event it would occur on this project additional expense could be incurred to resolve the issue.- Lighting, including ambient lighting, can greatly effect both projection systems and camera systems and their perceived quality. Lighting directly and indirectly shining on a projection screen can wash out the image. Fearing's recommends zoning the lights		



Project Number 100743A

11/4/2020 Page: 4 **** Proposal ****

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Mfg-Item No.	Qty Description	Unit Price	Extended
	<p>in the room if needed, so that lighting hitting the screen is reduced to greatly increase picture quality. Also, for cameras, good lighting is critical for a high quality picture. Portable or specialized directional lighting is highly recommended, especially when dealing with cameras and projection screens in the same space. Please speak with your Fearing's account manager or engineer for further details.</p> <ul style="list-style-type: none"> - For VOIP projects, customer to fill out VOIP worksheets prior to installation or additional labor, trips or other costs may be billable to customer due to delays and additional time needed to implement. - For customer provided switches, switches must be provided prior to rack installation and must also be pre-configured or additional labor, trips or other costs may be billable to customer due to delays and additional time needed to implement. - If required or recommended, customer to provide blocking or backing for displays or other heavier wall or ceiling mounted devices. - Because of the rapid change in models and pricing of components used in our industry, Fearing's AVS reserves the right to change pricing when models or unit pricing changes significantly from the time a proposal is approved by the customer and the time the product needs to be ordered. Fearing's AVS will notify the customer prior to ordering the product if changes are required to review possible customers options. A change in models or unit pricing does not constitute a reason for the customer to cancel the project. 		
Vaddio	2 RoboSHOT 12E SDI- White, 12x Zoom and H.264 Streaming	2,818.28	5,636.56
Vaddio	1 RoboSHOT 30E SDI- White, 30x Zoom and H.264 Streaming	3,190.41	3,190.41
Polycom	1 Group 500 CODEC Only 720P, NTSC/Pal	5,944.44	5,944.44
Polycom	1 Total Coverage, 1 YR, CODEC Only, RP G RP500 720P	877.78	877.78
tvONE	1 CORIOview 4-Window HD-SDI Multiviewer. Max Res 1080p/60 (3G)	3,397.73	3,397.73
Crestron	1 3-Series® DigitalMedia Presentation System 300	3,454.55	3,454.55
Crestron	1 48V Power Pack for PoDM	134.94	134.94
Crestron	1 10.1" Touch Screen, Black Smooth	1,295.45	1,295.45
Crestron	1 Tabletop Kit for TSW-1060, Black Smooth	134.94	134.94
Crestron	2 DigitalMedia 8G+ 4K60 4:4:4 HDR Wall Plate Transmitter, White	539.77	1,079.54
CRESTRON	1 DigitalMedia 8G+® 4K60 4:4:4 HDR Receiver & Room Controller 100	485.80	485.80
Dalite	1 UBT Contour, 16:10, 87"x139", 164"D, HD Progressive 1.1	2,252.77	2,252.77
Panasonic	1 WUXGA 1920x1200 8000 Lumen LCD Laser Projector, No Lens - White	6,802.22	6,802.22
Panasonic	1 2.7-4.5:1 Zoom Lens for PT-MZ670/770	1,798.89	1,798.89
Chief	1 Heavy Duty Wall Mount, Dual Stud	126.00	126.00
Chief	1 3" Fixed Extension Column- White	7.26	7.26
Chief	1 Universal Projector Mount- White	132.00	132.00
Asus	1 ProArt Display 24.1", 1920x1200, IPS	210.00	210.00
BIAMP	1 Fixed Audio DSP 12 In, 8 Out, AVB, AEC, VoIP,	2,180.73	2,180.73



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Project Number 100743A

11/4/2020

Page: 5

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	Telephone		
Biamp	1 4 Channel AEC, POE+ AVB Expander	969.82	969.82
Araknis	1 Network Accessory Gigabit PoE+ Injector	39.94	39.94
Biamp	1 4 Channel, 60W (or 120x2) Half-Rack Amplifier	490.91	490.91
Community	4 Two-Way 8" Full-Range Coaxial Surface Mount Speaker (White)	202.91	811.64
Shure	1 UHF Digital Wireless Handheld Microphone System (H55 Band)	544.44	544.44
Shure	2 Combo Sys- SLXD1 Bodypack, SLXD4 Receiver, and MX153T Ear Mic	665.56	1,331.12
SHURE	1 5 Way Active Antenna/Power Distro System for QLX-D, ULX, SLX,	699.48	699.48
Strong	2 14U In-Cabinet Rack	155.50	311.00
Strong	2 Rack Sliding Base for In-Cabinet and Contractor Series Racks-BLK	179.94	359.88
WattBox	2 Power Conditioner w/Safe Voltage, 12 Outlets - 4320J, 2 EMI/RFI	124.39	248.78
Cisco	1 16 Port Layer 2 Gigabit Switch, 8x PoE Ports	206.97	206.97
Strong	10 Rack Blank Panel 1U	5.32	53.20
Strong	1 Fixed Rack Shelf 1U	29.94	29.94
Panduit	1 Netkey 24 Port Empty Patch Panel With Labels	23.27	23.27
Panduit	6 Netkey 4 Port Modular Furniture Faceplate Black	1.99	11.94
Panduit	10 Netkey CAT6A White Jack	9.38	93.80
Panduit	14 Netkey Blank Insert White	0.22	3.08
FSR	2 4-Gang Floor Box with Black Hinged Cover	220.83	441.66
RDL	6 Decora-Style Wall Plate with Solder-Type 3-Pin XLR-F Plu	15.51	93.06
RDL	1 Dual XLR Female Decora Wall plate. Solder Type.	18.42	18.42
Panduit	2 6-Port Mini-Com Module, White	2.93	5.86
Panduit	2 Mini-Com CAT6 Jack Blue	10.00	20.00
	1 Scaffolding and Setup	222.22	222.22
	1 Shipping	388.89	388.89
	1 Cables, Connectors, Hardware	2,555.56	2,555.56
Binary	2 4K60 4:4:4 Ultra HD Premium HDMI - 4m (13')	23.28	46.56
Binary	4 4K60 4:4:4 Ultra HD Premium HDMI - 2m (6')	12.34	49.36
Liberty	1 9.84' Liberty Premium Molded HDMI to DVI Digital Cable	17.76	17.76
WINDY	10 RJ45 Cat6/6A Shielded Connector	2.39	23.90
Windy City Wire	500 RG6 Quad Shield Plenum - White	456.67 M	228.34
WINDY	1000 Cat 6A Plenum Shielded - White	597.78 M	597.78
Windy City Wire	1000 Cat 6 Plenum - White	262.22 M	262.22
WINDY	1200 22 ga 2 Conductor Shielded Cable-Plenum	82.22 M	98.66
Windy City Wire	500 16 ga/2 Conductor Stranded Plenum Control Cable	173.33 M	86.67

Equipment and Installation

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82,019.96



Project Number 100743A

11/4/2020 Page: 6 **** Proposal ****

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	~Assisted Listening System~		
Listen	1 iDSP Prime Level II Stationary RF System (72MHz)	1,390.12	1,390.12
Listen	4 Intelligent DSP RF Receiver (72MHz)	129.00	516.00
Listen	4 Universal Ear Speaker	13.00	52.00
Listen	1 Advanced Intelligent 12-Unit Charging Tray	263.38	263.38
			=====
	Equipment and Installation		2,952.05

Comprehensive Maintenance Agreement Option

Limitations: Does not cover product damage, misuse, abnormal service, improper operation or products that have been altered, modified outside manufacturer recommendations.

Investment Options:

1-year Agreement: \$2,351.00 per year.
3-year Agreement: \$2,234.00 per year.
5-year Agreement: \$2,116.00 per year.

Legend: M=1000Ft

This **** Proposal **** is Valid for 30 Days.

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\$84,972.01

Chris Matson

I Accept This Quote _____ Date: _____

50% Deposit, 40% at 80% completion, 10% upon completion.