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October 23 2024

Jared Johnson
Rochelle Municipal Utilities Technology Center
910 Technology Pkwy
Rochelle, IL 61068

Dear Jared,

We sincerely appreciate the opportunity to submit this proposal for the RMU Tech Center AV System Upgrade. I am confident that the systems priced, and full installation contained herein will meet your needs. The existing systems in the Situation Room and Crisis Center are non-functioning and out of date. Our proposed modernizing updates will restore functionality and deliver superior sound and video quality in both rooms.

For conferencing, both rooms will have new beamforming microphone arrays and replacement speakers installed into the drop ceiling. New QSYS cores and amplifiers will be installed into the existing equipment racks. Inputs to the system(s) will be updated to include HDMI, USB-C, and a wireless solution to accommodate BYOD situations with additional HDMI inputs included in each rack. Table-mounted 7" touch screen controllers will be utilized in each room for system control. The existing lamp projector in the Crisis Management Room will be replaced by a laser projector and leverage the existing functional pulldown screen.

Two options are offered for new LED displays to fit within the existing wall cubby in the Situation Room:

Option 1 (recommended) – Planar 105" with 21:9 aspect ratio [*best fit for wall cubby space*]

Option 2 – Samsung 85" with 16:9 aspect ratio

Again, thank you for the opportunity to be part of this project and to submit this proposal. As you review this document, please feel free to contact me for clarification or to address any changes or additions. We look forward to working with you on a successful project and a timely installation.

Sincerely,

Matt Rzemyk

Sales Representative
Pentegra Systems LLC
1400 Shore Road, Naperville, IL 60563
Mobile: (631) 431-7678
Website: www.pentegrasystems.com

Doug Lanham

AV Solutions Engineer

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Scope of Work – Equipment, Materials

AV Division

List of Components

Situation Room

Qty	Manufacturer	Product	Description
2	Extron	70-1241-02	USB-C AAP Female to Male on Pigtail
2	Extron	70-616-12	Single Space AAP - Black: One HDMI Female to Female on Pigtail
4	Extron	70-090-11	Single Space AAP - Black: Blank Plate
2	Baseus	7-in-1 USB	17-in-1 USB C Docking Station
1	RCI Custom Products	PEN004-200625PB-2	1U Rack Panel with HDMI Connectivity
1	NetGear	GSM4210PX-100NAS	AV LINE M4250-8G2XF-PoE+ 220W and 2xSFP+ MANAGED SWITCH
1	QSC	CORE 110f-v2	Unified Core with 24 local audio I/O channels, 1RU.
2	QSC	I/O USB Bridge	Q-SYS PoE bridging endpoint for AV-to-USB Bridging.
1	QSC	SPA2-200	1/2 RU 2 Channel ENERGY STAR amplifier
2	QSC	NC-12x80	PTZ Network Camera. Includes PTZ-WMB1 wall mount bracket
1	QSC	TSC-70-G3	Q-SYS 7" PoE Touch Screen Controller
1	QSC	TSC-710t-G3	Table top mounting accessory for TSC-70-G3.
1	ScreenBeam	SBWD1100P	1100 Plus 4K Wireless Display Receiver with HDMI
1	Denon	DN300BRXUS	RACKMOUNT BLUETOOTH RECEIVER
1	Shure	MXA920W-S	Ceiling Array Microphone, Square, White, 24in
4	JBL Commercial	LCT 81C/T	Lay-in Full-range Ceiling Tile Speaker for suspended grid ceilings
2	Extron	60-1471-12	Twisted Pair Transmitter for USB Peripherals
2	Extron	60-1471-13	Twisted Pair Receiver for USB Peripherals
2	Extron	60-1271-12	HDMI Twisted Pair Transmitter - 230 feet (70 m)
2	Extron	60-1271-13	HDMI Twisted Pair Receiver - 230 feet (70 m)
1	Extron	60-1457-02	Four Input HDCP-Compliant Scaler
1	Pentegra	MISC	Misc. hardware, connectors, etc.
	DISPLAY OPTION 1		
1	Planar	998-3424-00	URW105 Direct-Lit LED 105" Diagonal, 21:9 Aspect Ratio
1	Planar	955-0217-00	Fixed Wall Mount for ultra large displays
	DISPLAY OPTION 2		
1	Samsung	QM85C	QMC Series - 85" LED display, 16:9 Aspect Ratio
1	CHIEF	XTM1U	Micro-Adjust Tilt Wall Mount, X-Large

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Crisis Management Room

Qty	Manufacturer	Product	Description
1	Epson	V11HA33920	EB-PU1008W 8500LM WUXGA (WHITE) PROJECTOR
1	Epson	V12H004M08	Middle Throw Lens 1 for Pro G7000 and L Series Projectors
1	CHIEF	WMA2S	WMA2S WALL MOUNT ACCY, 1 1/2 NPT LAT SHI
1	CHIEF	CMS006009	ADJ. PIPE 6" TO 9"
1	CHIEF	RPAU	UNIVERSAL RPMA
2	Extron	60-1471-12	Twisted Pair Transmitter for USB Peripherals
2	Extron	60-1471-13	Twisted Pair Receiver for USB Peripherals
2	Extron	60-1271-12	HDMI Twisted Pair Transmitter - 230 feet (70 m)
2	Extron	60-1271-13	HDMI Twisted Pair Receiver - 230 feet (70 m)
1	Extron	60-1238-81	Eight Input HDCP-Compliant Scaler
1	RCI Custom Products	Custom	1U Rack Panel with Female HDMI & Female USB-C Connectivity
1	NetGear	GSM4210PX-100NAS	AV LINE M4250-8G2XF-PoE+ 220W and 2xSFP+ MANAGED SWITCH
1	QSC	SPA2-200	1/2 RU 2 Channel ENERGY STAR amplifier
2	QSC	I/O USB Bridge	Q-SYS PoE bridging endpoint for AV-to-USB Bridging.
1	QSC	NC-12x80	PTZ Network Camera - Includes PTZ-WMB1 wall mount bracket
1	QSC	TSC-70-G3	Q-SYS 7" PoE Touch Screen Controller
1	QSC	TSC-710t-G3	Table top mounting accessory for TSC-70-G3
2	Baseus	7-in-1 USB	17-in-1 USB C Docking Station
1	ScreenBeam	SBWD1100P	1100 Plus 4K Wireless Display Receiver with HDMI
1	Denon	DN300BRXUS	RACKMOUNT BLUETOOTH RECEIVER
1	Shure	MXA920W-S	Ceiling Array Microphone, Square, White, 24in
4	JBL Commercial	LCT 81C/T	Lay-in Full-range Ceiling Tile Speaker for suspended grid ceilings
1	Pentegra	MISC	Misc. hardware, connectors, etc.

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Installation and Services to be rendered by Pentegra Systems

Situation Room

- Existing credenza equipment racks, floor input boxes, and Existing HSA 400 Hideaway Surface Access Enclosures will be utilized in new system design.
- Existing components in equipment racks, RGB inputs in floor-boxes, microphones, speakers, and projector will be removed and set aside.
- Client Option Chosen Display will be installed into wall cavity.
- New beamforming microphone and new speakers will be installed into ceiling tiles.
- PTZ cameras (2) will be installed on display wall, connected and configured.
- QSYS core, QSYS USB Bridge, Managed Switch, ScreenBeam Receiver, Bluetooth receiver, and custom HDMI input plate will be installed into existing SRSR Credenza equipment rack in cabinet space.
- Extron Single Space AAP input plates will be installed into existing HAS 400 enclosures in conference table. (1 HDMI, 1 USB-C in one box, **ONLY 1 HDMI in second table box; NO USB-C in second box**)
- Baseus Docking Stations will be installed under conference table.
- QSYS Touch-Screen Controller will be connected and mounted on table-top.
- Network cable will be run through floor boxes to equipment rack location.**

Crisis Management Room

- Existing floor equipment rack and floor input boxes will be utilized in new system design.
- Existing components in equipment racks, RGB inputs in floor-boxes, speakers, and projector will be removed and set aside.
- Laser Projector will be installed / wall-mounted onto western wall and configured to be used in conjunction with existing owner-furnished pull-down screen.
- New beamforming microphone and new speakers will be installed into ceiling tiles.
- PTZ camera will be installed on projection screen wall, connected and configured.
- QSYS core, QSYS USB Bridge, Managed Switch, ScreenBeam Receiver, Bluetooth receiver, and custom HDMI input plate will be installed into existing floor-standing rack in adjacent storage room.
- QSYS Touch-Screen Controller will be connected and mounted on table-top.
- Baseus Docking Stations will be installed under tables.
- Network cable will be run through floor boxes to equipment rack location.**

Warranty and Support

90-day remote or on-site support with break-fix and replacement on Pentegra provided and installed equipment.

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Intellectual Property Notice

This detailed design/build proposal including all equipment lists, drawings and other documents are submitted at no charge to the organization named in this Proposal pursuant to the following conditions:

This Proposal is for the organizations exclusive use in evaluating the system design presented by Pentegra Systems LLC and for evaluating the capabilities of Pentegra Systems LLC.

Pentegra Systems LLC applied significant resources with specialized knowledge and experience in preparation of this Proposal. This Proposal was created to offer consultative recommendations for your organization's unique challenges, needs and requirements. This Proposal is a product of Pentegra Systems LLC presenting consultative ideas, design, and engineering of systems based on a thorough needs analysis. As a result, the information contained in this Proposal is considered the intellectual property of Pentegra Systems LLC.

The design contents and concepts contained in this Proposal, including equipment lists, drawings and all other documents are the product of Pentegra Systems LLC and shall not be duplicated or disclosed in any manner, in whole or in part for any reason including the purpose of obtaining competing quotations. The design contents and concepts contained in this Proposal are protected by law and remain the intellectual property of Pentegra Systems LLC until acceptance of Proposal and paid deposit.

Unauthorized use of the design contents and concepts contained herein shall constitute acceptance of the following charges plus obligation to pay any and all Pentegra Systems LLC expenses incurred in the collection of these charges.

**Charge for Unauthorized Use:
15% of the Pentegra Systems Design/Build Quotation**

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Acceptance of Proposal

Procurement and Installation

Proposed System(s)	Amount	Initials
Procurement, Installation, and Commissioning of Tech Center AV System Upgrade		
Display Option 1 - URW105 Direct-Lit LED 105" Diagonal, 21:9 Aspect Ratio	\$132,800	
Display Option 2 - QMC Series - 85" LED display, 16:9 Aspect Ratio	\$128,600	

Note: **Based on current understanding of project scope.

PAYMENT TERMS: 50% initial payment, 30% upon completion of 50% of the work, 20% upon completion of the entire project, billed in progress payments NET 30.

Please check this box if Tax Exempt

Please submit State of Illinois tax exemption certificate with acceptance of this proposal or send to accounting@pentegrasystems.com

I hereby authorize Pentegra Systems LLC to provide the equipment, materials, and services as proposed per my selections indicated above.

The total investment, specifications, Terms, and Conditions (Appendix A), and all agreements and notices detailed above and in the corresponding Proposal attached hereto are understood and accepted.

Signature

Date

P.O. Number

Print name

Title

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QUALIFICATIONS:

Note1: Long lead times are expected for some products. ETA cannot be provided until the order is placed. Any needed expedited delivery fees will be assessed on orders. Not to exceed: \$1,000.00

Note2: Due to the cost escalations recently experienced across equipment suppliers in the technology industry and the uncertainty that exists for potential future escalations, Pentegra Systems reserves the right to adjust our CO quote pricing if future equipment cost increases and or shipping surcharges exceed 2% of the current costs used in this quote. Pentegra Systems shall provide proof of escalation through manufacturers' communications of such increases to justify the potential future increase to our pricing quoted herein.

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Integration Inclusions & Exclusions

Inclusions

The following items are INCLUDED in the project scope of work:

- All equipment, wire and accessories required for a fully functional audio and video system.
- Union labor associated with turnkey engineering, installation, programming, testing and training.
- Documentation package including as-built system CAD diagrams and Manufacturer's Operation manuals.
- Coordination and cooperation with the construction team in regards to installing the system.
- User training on system operation.

Any additional trips, labor or materials due to failure of the other work forces to have the audiovisual system rough-in work completed as anticipated and previously confirmed, will be added to the project billing as required.

Where applicable, the owner's architect will provide Pentegra Systems engineering department with all required architectural floor, reflected ceiling, building elevation, and section plans in AutoCAD® format at no charge to Pentegra Systems.

Exclusions

The following items are EXCLUDED from the project scope of work:

- All conduits, high voltage wiring panels, breakers, relays, boxes, receptacles, etc. Any related electrical work including but not limited to 110VAC, conduit, core drilling, raceway and boxes.
- Voice/data cabling, IE analogue phone lines, ISDN lines, network ports, etc.
- Network connectivity, routing, switching and port configuration necessary to support audiovisual equipment
- Concrete saw cutting and/or core drilling
- Fire wall, ceiling, roof and floor penetration, patching, removal or fire stopping
- Necessary sheet rock replacement, ceiling tile, T-bar replacement and/or repair
- Any and all millwork (moldings, trim, etc.). All millwork or modifications to project millwork to accommodate the AV equipment is to be provided by others, unless otherwise noted in this proposal
- Painting, patching or finishing of architectural surfaces
- Permits (unless specifically provided for elsewhere in the contract)
- HVAC and plumbing relocation
- Rough-in, bracing, framing or finish trim carpentry for installation
- Cutting, structural welding, or reinforcement of structural steel members required for support of assemblies, if required
- Owner furnished equipment or equipment by others that is integrated into the systems (as described above) is assumed to be current, industry acceptable and in good working order. If it is determined that this equipment is faulty upon installation, additional project charges may be incurred.

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Appendix A

Section 1

Price, Fees, and Taxes

- 1.1 Price Protection. This Proposal is valid for sixty days from date on Proposal. Prices are firm and protected for the initial sixty-day period. Following the sixty-day period the Proposal is void. Pentegra Systems LLC (Pentegra) may extend or resubmit the Proposal with or without changes.
- 1.2 Payment Terms. Owner shall pay to Pentegra the purchase price and shall assume responsibility for the other charges and claims set forth in the Agreement in accordance with the payment schedule set forth in the Acceptance of Proposal hereto and elsewhere in this Agreement. All invoices are due NET 30 days unless documented otherwise in the Acceptance of Proposal.
- 1.3 Past Due Accounts. Past due accounts will be charged a monthly 1.5% service fee plus administrative and collection expenses, lien fees, and legal fees and costs incurred. Accounts where invoice payments are not received at Pentegra within 45 days of invoice shall forfeit the ninety (90)day warranty will apply.
- 1.4 Taxes, Freight, and other Fees. Equipment sales tax, non-standard freight, and any required permit and bonding fees not included in the proposal price will be added to the total purchase price if applicable.
- 1.5 Title to the Deliverables. Title to the deliverables is retained by Pentegra until payment of the full Agreement sum subject to allocation of payments and release of security as required by law. The Customer agrees to keep the deliverables safe, free from other liens, and at the address of the installation.

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Section 2
Scope of Work

2.1 Scope of Work. Pentegra shall provide the equipment and materials specified, and shall perform all services to be rendered in a professional manner according to the specifications and standard practices for the total purchase price stated in the Proposal.

2.2 Implementation Schedules. The work performed under the terms of this Agreement shall be commenced as mutually agreed between the parties upon receipt of the signed Acceptance of Proposal and deposit. Any dates for completion of work are provided by Pentegra on a best-efforts basis. The dates shall be subject to extensions due to conditions beyond the control of Pentegra such as acts of nature, delays in material delivery, accessibility to the facility, and delays of work by others where such work is necessary to the completion of the project.

2.3 Customer Provided Networks. The Customer is responsible for providing the network infrastructure and configuration to support the installation and performance of the proposed systems, unless specified otherwise in the Scope of Work. If Customer requests Pentegra to perform work not specified in the Scope of Work to enable the Network, the Customer will be billed for this work performed at Pentegra's standard hourly rate unless otherwise negotiated and documented.

2.4 System Control Programming. All system control programming will be performed by Pentegra until System is turned over to the customer. Once the programming parameters are mutually agreed to by both parties, any changes requested by Customer will result in additional billable charges to Customer. If Customer without the consent of Pentegra makes programming changes to the System that later creates additional work for Pentegra, the extra work will result in additional billable charges to the Customer.

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Section 3

Proprietary Protection of Programs

3.1 Reservation of Title. This Agreement does not affect any transfer of title in the Programs, or any materials furnished or produced in connection therewith, including drawings, diagrams, specifications, input formats, source code, and user manuals. The Programs are provided, and are authorized to be installed, executed, and used only in machine-readable, object code form. Customer's rights in the Programs are expressly limited to the use of the Programs by Customer at the Installation Site in connection with the equipment and as otherwise limited by any applicable license agreement.

3.2 Restrictions on Use of Programs Generally. Neither the Programs nor any materials provided to Customer in connection with the Programs may be copied, reprinted, transcribed, or reproduced, in whole or in part, without the prior written consent of Vendor. Customer shall not in any way modify or enhance the Programs, or any materials furnished or produced in connection therewith, without the prior written consent of Vendor.

Section 4

Limitation of Liability

4.1 LIMITATION OF LIABILITY. IN NO EVENT SHALL PENTEGRA OR ITS LICENSORS(S) BE LIABLE TO CUSTOMER FOR LOST PROFITS; LOST SALES OR BUSINESS EXPENDITURES; INVESTMENTS; OR COMMITMENTS IN CONNECTION WITH ANY BUSINESS, LOSS OF ANY GOODWILL, OR FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF OR RELATED TO THESE TERMS AND CONDITIONS OR USE OF THE DELIVERABLES, HOWEVER CAUSED, ON ANY THEORY OF LIABILITY. IN NO EVENT WILL PENTEGRA'S TOTAL CUMULATIVE LIABILITY ARISING OUT OF OR RELATED TO THIS AGREEMENT OR USE OF THE DELIVERABLES, FROM ALL CAUSES OF ACTION OF ANY KIND, EXCEED THE AMOUNTS PAID TO PENTEGRA BY CUSTOMER FOR THE DELIVERABLES FROM WHICH THE LIABILITY DIRECTLY AROSE.

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**Section 5
Warranty**

5.1 Initial Warranty Period. Except as may be limited by Section 1.3 of these Terms and Conditions Pentegra warrants that the equipment, materials, and workmanship we provide will be free from defects for a period of ninety (90) days from the time of installation completion or first beneficial use, whichever occurs first, with the exception of CD players, cassette decks, video cassette decks, and video projectors, which have a warranty of the lesser of the manufacturer's warranty or ninety (90) day. Video projector lamps have a warranty period of 90 days. Disposable items such as batteries, lamps, and tapes are not covered under our warranty. All warranty work will be performed during normal business hours, Monday through Friday, excluding holidays.

5.2 Extended Service. After the expiration of ninety (90) days from the point of installation, Pentegra will honor the manufacturer's warranty to the full extent of the manufacturer's warranty period. All labor costs incurred in the servicing of this equipment shall be charged at our normal service rates. Quotations for extended service contracts will be provided (upon request) prior to the completion of the initial ninety (90) day warranty period.

5.3 Warranty Exclusions. Equipment, materials, cable, or workmanship not originally provided by Pentegra are not covered by our warranty. Systems and equipment damaged by abuse, accident, repair, or modification by someone other than a Pentegra technician, fire water, theft or theft attempt, vandalism, power surges, and Acts of Nature are not covered by warranty.