

***Request for Proposals
for
Audio Visual Upgrades for the Sioux Falls Convention Center
October 5, 2018***

City of Sioux Falls, South Dakota

Proposal Request No. 18-0155

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Request for Proposals Audio Visual Upgrades at the Sioux Falls Convention Center

Section 1 Introduction and Instructions

1.01 Purpose of the RFP

This Request for Proposal (RFP) is issued by the City of Sioux Falls (hereinafter referred to as the “City”). The purpose of this RFP is to establish a contract with a qualified firm to provide Audio Visual Upgrades at the Sioux Falls Convention Center

1.02 Contact Person, Telephone, Fax Number, and Email

Scott Rust, Purchasing Manager, Finance Department, is the point of contact for this RFP. Unauthorized contact regarding the RFP with other City employees may result in the vendor being disqualified.

Scott Rust, Purchasing Manager, Finance Department

Phone: 605-367-8836

Fax: 605-367-8016

Email: srust@siouxfalls.org

1.03 RFP Schedule of Events

This schedule of events represents the City’s best estimate of the schedule that will be followed for this RFP. If a component of this schedule such as the deadline for receipt of proposals is delayed, the rest of the schedule will be shifted by the same number of days.

The approximate RFP schedule is as follows:

- RFP issued: October 5, 2018.
- Preproposal Meeting: October 17, 2018.
- Deadline for questions and approved equals: October 25, 2018, 2 p.m. CST.
- Proposals Due: November 1, 2018.
- Review of Proposals: November 5–9, 2018.
- Presentations (if necessary): November 15–16, 2018.
- Contract Award: December 13, 2018.
- Execute Contract: December 31, 2018.

1.04 Return Mailing Address and Deadline for Receipt of Proposals

Firms must submit one (1) original hard copy (marked "Original") and four (4) hard copies of the proposal in a sealed envelope or package. Please include one electronic copy on a flash drive.

One Cost Proposal is to be submitted in a separate sealed envelope or package, clearly labeled "Cost Proposal."

Envelopes or packages containing proposals must be clearly addressed as described below to ensure proper delivery and to avoid being opened by the City before the deadline for receipt. Envelopes or packages must be addressed as follows:

City of Sioux Falls Purchasing Office
Attention: Scott Rust
Audio Visual Upgrades at the Sioux Falls Convention Center
RFP No. 18-0158
224 West Ninth Street
P.O. Box 7402
Sioux Falls, SD 57117-7402

Proposals must be received by the Purchasing Office at the location specified no later than **2 p.m., Central Standard Time, on November 1, 2018**. Proposals will not be publicly read at the opening.

Proposals may not be delivered orally, by facsimile transmission, by other telecommunication, or electronic means.

Firms assume the risk of the method of dispatch chosen. The City assumes no responsibility for delays caused by any delivery service. Postmarking by the due date will not substitute for actual proposal receipt by the City. A Firm's failure to submit its proposal prior to the deadline will cause the proposal to be rejected. Late proposals or amendments will not be opened or accepted for evaluation.

1.05 Preproposal Meeting, Questions, and Addenda

A mandatory preproposal meeting will be held at the Sioux Falls Convention Center on **October 17, 2018, at 2 p.m. CST**. Questions after the preproposal meeting regarding this RFP shall be submitted in writing to Scott Rust, Purchasing Manager, at srust@siouxfalls.org. Answers to questions will be posted to the City's website. The deadline for questions is 2 p.m. Central Standard Time, Thursday, **October 25, 2018**.

If deemed necessary, addenda to the RFP will be issued and will be emailed to the proposers. No addenda will be issued after 5 p.m., Monday, **October 29, 2018**.

Responding Firms are prohibited from communicating in any other manner about this project with any other City employee from the date of issuance of this proposal until the final selection, unless otherwise directed by the Purchasing Manager. Other means of communications or contact may disqualify the submitting Firm.

Section 2 Scope of Work

2.01 Introduction

The Sioux Falls Convention Center was constructed in 1997 as a multipurpose facility for tradeshow, corporate events, and weddings. The meeting rooms and exhibit hall space currently do not have any built-in video or control equipment and rely primarily on portable video equipment for all of its events. The goal of this project will be to install video equipment, cabling, and controls throughout the event spaces in the facility and integrate with existing audio systems in the event spaces

2.02 Scope of Work

The scope of this project will be to provide, install, and integrate control hardware, TVs, projectors, cameras, network switches, and all associated power, cabling, and mounts in the meeting rooms and exhibit halls. This project will also include integration to and programming of the existing Crestron Fusion system.

This project will also include integration of control and feed of audio to the existing audio system. The existing controls will be replaced with Crestron controls or approved equal.

Exhibit A is a detailed list of the requirements broken out by meeting rooms and exhibit halls, as well as a map of general locations to install inputs and outputs in the exhibit halls.

2.03 Cost Proposal

Firm shall submit a detailed itemized cost proposal including all options where requested. Pricing shall include all components, installation hardware, labor, shipping costs, and any applicable taxes to complete the project.

Firms will be required to hold pricing firm for 90 days.

2.04 Contract Award

It is the City's intent to enter into a contract with a Firm who best demonstrates the ability to provide an Audio Visual System solution for the Sioux Falls Convention Center. After review of the proposals, if the City decides to not enter into contract, the City will notify all Firms.

Section 3 Proposal Format and Content

3.01 Submittal Requirements

Besides the detailed cost proposal, the submittal must contain the following information:

1. **Cover Letter.** Provide name and address of the Firms and project contact person with address, telephone number, and email address. Acknowledge receipt of any addenda if applicable. Summarize your understanding of the project. Provide a statement indicating your ability to provide the expertise, to provide, install the audiovisual equipment, and integrate the new equipment to work with the existing Crestron hardware. Indicate your acceptance of the requirements of this RFP. Provide a one-page summary of the benefits you believe the City would receive from selecting your Firm.

The cover letter **must be signed** by a duly authorized official of the Firm. Consortiums, joint ventures, or teams submitting proposals must establish contractual responsibility rests solely with one company or one legal entity. Each submittal should indicate the entity responsible for execution on behalf of the proposal team.

2. **Project Team Experience Qualifications.** Provide résumés or a listing of information for each person in your Firm participating in this project. State the educational background of each individual, years of experience, length of employment with your Firm, and experience or expertise in providing designing, integrating, and installing audio visual equipment.
3. **References.** The Firm shall provide a list with contact information of agencies that have requested your services.
4. **Experiences.** Each Firm shall supply recent examples of similar projects that the Firm was involved with.
5. **Solution.** The Firm shall describe a proposed system design, including equipment, based on the needs listed in the scope of work in Exhibit A. The description shall include a complete equipment list, how the system will integrate with the current Crestron Control System, a general description of how the system will operate, and a timeline to complete the project.
6. **Service.** Provide warranty term and service team location, number of people on the service team, and how quickly your team can respond to service calls. Also include your service call labor rates and markup on parts and equipment.

Section 4

Review of Proposals and Selection of Finalists for Interviews

4.01 Selection Criteria

Upon receipt of the proposals, an evaluation team will determine the best proposal deemed most qualified based on the following criteria:

The evaluation team will rely on the qualitative information contained and presented in the proposals, the reference checks made, and the ability to work well with other project team members in making the decision to select the most qualified Firm to provide services for the City. Selection criteria will be based on:

Evaluation Criteria (100 Point Potential Score)

- Understanding of the project and expertise to install, integrate, and program the provided components necessary to complete the project **20 points.**
- Proposed design, ease of use, and quality of equipment needed to complete the project **15 points.**
- Project Team and Experience and Qualifications **15 points.**
- Experience with similar projects **10 points.**
- References **5 points.**
- Service after the sale **15 points**
- Proposed price for the project **20 points.**

Converting Cost to Points

After applying any reciprocal preference, the lowest cost proposal will receive the maximum number of points allocated to cost. The point allocations for cost on the other proposals will be determined as follows:

Price of Lowest Cost Proposal

Price of Proposal Being Rated x Total Points for Cost Available = Awarded Points.

Any prompt payment discount terms proposed by the Firm will not be considered in the evaluating cost. The lowest cost proposal will receive the maximum number of points allocated to cost.

Upon review of the proposals, the City will score the proposals and may short list and interview the highest ranking Firms. Upon completion of the interviews, the highest ranking Firm may be asked to enter into contract negotiations with the City. If an agreement cannot be reached with the highest ranked Firm, the City may move to the next highest ranked Firm. The same process will be repeated with the other ranked Firms if no such agreement can be reached. The City reserves the right to not select a Firm as part of this process if an agreement cannot be reached or for any other reason.

4.02 Special Conditions

Excluding proprietary information, the successful Firm's proposal and contract are deemed public records and shall be available to the public upon request. In addition, the City shall maintain a "Register of Proposals for this Contract," which shall contain the names of companies who submitted a proposal and the name of the company who was awarded the contract. However, the proposals of the submitting Firms not awarded the contract are nonpublic records and will remain confidential.

Section 5 Standard Proposal Information

5.01 Authorized Signature

An individual authorized to bind the Firm to the provisions of the RFP must sign all proposals.

5.02 City Not Responsible for Preparation Costs

The City will not pay any cost associated with the preparation, submittal, presentation, or evaluation of any proposal.

5.03 Conflict of Interest

Firms must disclose any instances where the Firm or any individuals working on the contract has a possible conflict of interest and, if so, the nature of that conflict (e.g., employed by the City). The City reserves the right to cancel the award if any interest disclosed from any source could either give the appearance of a conflict or cause speculation as to the objectivity of the Firm's proposal. The City's determination regarding any questions of conflict of interest is final.

5.04 Firm's Certification

By signature on the proposal, the Firm certifies that it complies with:

- The laws of the state of South Dakota.
- All applicable local, state, and federal laws, codes, and regulations.
- All terms, conditions, and requirements set forth in this RFP.

- A condition that the proposal submitted was independently arrived at without collusion.
- A condition that the offer will remain open and valid for the period indicated in this solicitation and any condition that the Firm and/or any individuals working on the contract do not have a possible conflict of interest (e.g., employed by the City).

If any Firm fails to comply with the provisions stated in this paragraph, the City reserves the right to reject the proposal, terminate the contract, or consider the contractor in default.

5.05 No Contact Policy

Any contact with any City representatives, related officials, or representatives other than those outlined in the RFP is prohibited. Such unauthorized contact may disqualify your Firm from this procurement.

5.06 Indemnification

To the fullest extent permitted by law, the provider, its subcontractors, agents, servants, officers, or employees shall indemnify and hold harmless the City, including but not limited to, its elected and appointed officials, officers, employees, and agents, from any and all claims brought by any person or entity whatsoever, arising from any act, error, or omission of the provider during the Firm's performance of the Agreement or any other agreements of the Firm, entered into by reason thereof. The Firm shall indemnify and defend the City, including, but not limited to its elected and appointed officials, officers, employees and agents, with respect to any claim arising, or alleged to have arisen from negligence, and/or willful, wanton or reckless acts or omissions of the Firm, its subcontractor, agents, servants, officers, or employees and any and all losses or liabilities resulting from any such claims, including but not limited to, damaged awards, costs and reasonable attorney's fees. The indemnification shall not be affected by any other portions of the Agreement relating to insurance requirements. The Firm agrees that it will procure and keep in force at all times at its own expense insurance in accordance with these specifications.

5.07 Insurance Requirements

The Firm shall secure the insurance specified below. All insurance secured by the Firm under the provisions of this section shall be issued by insurance companies acceptable to the City. The insurance specified in this section may be in a policy or policies of insurance, primary or excess. Certificates of all required insurance shall be provided to the City upon execution of this agreement.

1. Workers' compensation insurance providing the statutory limits required by South Dakota law. In addition, it shall provide Coverage B, Employer's Liability Coverage, of not less than \$1,000,000 each accident, \$1,000,000 disease-policy limits. The required limit may be met by excess liability (umbrella) coverage.

2. Commercial general liability insurance providing occurrence form contractual, personal injury, bodily injury and a property damage liability coverage with limits of at least \$1,000,000 per occurrence, \$2,000,000 general aggregate, and \$2,000,000 aggregate products and completed operations. The required limit may include excess liability (umbrella) coverage. The policy shall name the City and its representatives as an additional insured. If “occurrence form” insurance is not available, “claims made” insurance will be acceptable. The policy shall be maintained for three years after completion of this agreement.
3. Automobile liability insurance covering all owned, nonowned, and hired automobiles, trucks, and trailers. The coverage shall be as broad as that found in the standard comprehensive automobile liability policy with limits of not less than \$1,000,000 combined single limit each occurrence. The required limit may include excess liability (umbrella) coverage.

The Firm will provide the City with at least 30 days’ written notice of an insurer’s intent to cancel or not renew any of the insurance coverage. The Firm agrees to hold the City harmless from any liability, including additional premium due because of the Firm’s failure to maintain the coverage limits required.

The City’s approval or acceptance of certificates of insurance does not constitute the City’s assumption of responsibility for the validity of any insurance policies nor does the City represent that the above coverages and limits are adequate to protect any individual/group/business, its consultants’ or subcontractors’ interests, and assumes no liability therefore.

5.08 Special Conditions

The City reserves the right to reject any and all proposals, to waive formalities, and to select the proposal and developer(s) that, in the City’s sole discretion, are in the best interests of the City.

The City reserves the right to:

- a. Amend, modify, or withdraw this RFP.
- b. Revise any requirements under this RFP.
- c. Require supplemental statements of information from any responding party.
- d. Extend the deadline for submission of responses hereto.
- e. Negotiate or hold discussions with any bidder to correct insufficient responses that do not completely conform to the instructions contained herein.
- f. Waive any nonconformity with this RFP.
- g. Cancel, in whole or in part, this RFP if the City deems it is in its best interest to do so.

- h. Request additional information or clarification of information provided in the response without changing the terms of the RFP.
- i. Waive any portion of the selection process in order to accelerate the selection and negotiation with the top-ranked Firm.
- j. Not award a contract as a part of, or result of, this RFP process.

The City may exercise the foregoing rights at any time without notice and without liability to any bidder, or any other party, for expenses incurred in the preparation of responses hereto or otherwise.

Exhibit A

Scope of Work

1.0 Meeting Rooms 1–14 General Requirements:

1.1 Projectors

- 5000 Lumen DLP or better networkable projector per room.
- Please provide Laser or LED light options.
- Network video projection support and IP control.
- 1080p or higher native resolution preferred.
- Should be integratable to controls.
Epson Powerlite 5535U or approved equal and a short throw projector for Meeting Room 11.

1.2 Ceiling Mount

- Appropriate mounts for the projectors.
- Chief model CMS492CP2 or approved equal.

1.3 Other Video Hardware

- Multiadapter cable like Crestron CBL-Multi-HD-6 or approved equal.
- Crestron Mercury Video Package or approved equal installed in Arena Conference Room and Meeting Room 5.
- Crestron HD-Scaler-VGA-E or approved equal will be set aside to use in the room when needed.
- Except in conference room which will be wired into table connections and 4x1 switcher.

1.4 Controls

- Crestron TSW-760-B-S or approved equal—one per room.
- Appropriate mounting hardware for flush mounting of screens in wall.
- Must integrate with existing Crestron Fusion Server on site.
- Integration with current motorized room screens or option to replace the screens with controllable screens.
 - Include pricing/option for replacing non-motorized wall screens in applicable meeting rooms also.
- Integration with Audia and London Blu Audio systems already installed.
- Install Partition Sensors on all air walls to automatically control room combining, with software overrides in case of unusual setups.
- Processors based on Crestron equipment proposal.
- Conference room will have an FT-TS600-B mounted in table and the TSW-760-B-S will be mounted outside the room for scheduling view.

1.5 Switching

- Crestron DM-NVX Hardware or approved equal.
- Two inputs per room, one output per screens in use
 - Inputs:
 - One in wall as listed in specifics.
 - One in ceiling for camera.

1.6 Audio

- Will need an Auvitrans Audio toolbox with appropriate Dante to Cobranet converters, or approved equal, to bring audio into the existing sound system from computers and other sources.
- All computers and wall inputs must be tied into existing audio systems.
- **Alternate option: Add amplifier and speakers to Meeting Rooms 4 and 5 (Crown and JBL preferred eg: LCT 81C/T) 9 or equivalent (provide optional pricing in cost proposal).
Dante in-ceiling speakers are an acceptable option such as:
AMK DS62-B-X or approved equal.

1.7 Network

- Run additional network cabling for extra access points outside Meeting Room (MR) MR1, MR5, IT Closet, and MR10 along ceiling tile grid in hallway. And inside the doors to MR11 and MR14.
- Keystone Jacks on the AP end, into patch panels on the IT Closet end.
- Replace fiber to IT closets with appropriate 10gig capable fiber 12 strand.
- **Alternate option: combination single mode/multimode Fiber (six strands of each).
- Supply switches for all connections with appropriate POE budgets/levels.
- Must have 10 gig uplinks.
- May be stacked with existing switches but will need 10GB Network Modules and SFPs.
- Supply UPSs for any additional network equipment.

1.8 Meeting Room Cameras

- Mount an Axis V5915 1080p or approved equal camera near back of rooms with SDI, HDMI, or IP to DM-NVX Network, will be used for recording and/or showing presenter on screen larger if no slides.
- Integrate video feed to existing exterior room signs for a quick room check.
- Requires power.
- Run one room audio output to camera for recording.
- Include 64GB SD Card for local storage of recording.

1.9 Meeting Room Specifics

1.9.1 Meeting Rooms 1 and 2

- Wall plate with HDMI and USB in the front of each room (Room 1 and Room 2).
- One plate per room.
- Projectors mounted in ceiling in each room. One (1) for each window screen and one (1) for the wall screen being maintained.
- Wall control mounted in place of the existing Audia RED-1 remote controls per room.

1.9.2 Meeting Room 3

- Wall plate with HDMI and USB in the front of the room.
- Projector mounted in ceiling in room. One (1) for the window screen.
- Wall control mounted in place of the existing Audia RED-1 remote controls per room.

1.9.3 Meeting Room 4

- Wall plate with HDMI and USB in the front of the room.
- Projector mounted in ceiling in room. One (1) for the window screen.
- Install wall control near entrance door.
- Install speakers and cabling, from Convention Center attic stock or new speakers. Convention Center attic stock will require back boxes for Mackie SP400C (provide pricing option for new in cost proposal).

1.9.4 Meeting Room 5

- Minimum 80-inch HD Digital Whiteboard TV mounted on north wall.
- Integrated to Crestron for all controls.
- Wall control mounted in (or near) existing unused control location near door.
- Wall plate with HDMI and USB under the TV.
- Install wall control near entrance door.
- Install speakers and cabling, from Convention Center attic stock or new speakers. Convention Center attic stock will require back boxes for Mackie SP400C (provide pricing option for new in cost proposal).

1.9.5 Meeting Room 6 and 7

- Wall plate with HDMI and USB in the front of each room (Room 6 and Room 7).
- One plate per room.
- Projectors mounted in ceiling in each room. One for each window screen and one for the wall screen being maintained.
- Wall control mounted in place of the existing Audia RED-1 remote controls per room.

1.9.6 Meeting Rooms 8–10

- Wall plate with HDMI and USB in the front of each room (Room 8, Room 9, and Room 10).
- One plate per room.
- Projectors mounted in ceiling in each room. One for each window screen and one for the wall screen being maintained.
- Wall control mounted in place of the existing Audia RED-1 remote controls per room.

1.9.7 Meeting Room 11

- Wall plate with HDMI and USB in the front of the room.
- Projector with short throw lens mounted in ceiling in room.
- Wall control mounted in place of the existing Audia RED-1 remote controls per room.

1.9.8 Meeting Rooms 12–14

- Wall plate with HDMI and USB in the front of each room (Room 12, Room 13, and Room 14).
- One plate per room as long as plate can be matrixed to either projector in rooms with two projectors.
- Projectors mounted in ceiling in each room. One for each window screen, one for the room, and one for the wall screen in 14.
- Wall control mounted in place of the existing Audia RED-1 remote controls per room.

1.9.9 Office Conference Room

- 70-inch 4K LED TV (residential model acceptable) mounted on north wall.
- Integrated to Crestron for all controls or approved equal.
- Table Top Control Panel (Crestron FT-TS600-B) or approved equal.
- Install in existing conference table.
- Cables for TV wired to table on both halves (will need switching hardware).
- Room scheduling touch panel outside room integrated to Crestron Fusion Server (TSW-760-B-S).

1.9.10 Computers

- Provide one mini desktop computer per room
- 14 Meeting rooms + 1 Office Conference Room

1.9.11 Electrical

- Provide outlets in ceiling for projectors and behind TVs run to local closet(s).
- Behind TVs please use recessed outlets.
- Provide cost to get Generator 120V power to control and network equipment in front closets as an alternate option.
- There is a 277V three-phase lighting circuit that feeds meeting room emergency lights if there is enough power to add a transformer for each closet.
- Provide cost for UPS to keep control screens and other necessary hardware online to relay broadcast messages in the event of a problem assuming generator power available.

End Meeting Room Section

2.0 Exhibit Hall Section

2.0.1 Projectors

- High Lumen (10-12,000 Color Brightness), interchangeable lens, DLP or better networkable projector. Please provide Laser or LED light options. (Include in pricing proposal). Arc lamps will not be considered.
- Network video projection support and IP control.
- 1080p or higher native resolution preferred.
- Should be integrate-able to controls, preferably over IP.
- Must have powered lens shift, focus, and zoom.
- As example: Epson Pro L1500UHNL or approved equal with appropriate lens for spaces.

2.0.2 Mounts

- Mounts should hang no lower than the exhibit hall bi-fold door height if possible. Chief RPA series or approved equal hardware with adjustable extension and I-Beam Clamp.

2.0.3 Controls

- Crestron TSW-760-B-S or approved equal—one per room.
- Appropriate mounting hardware for flush mounting of screens in wall.
- Must integrate with existing Crestron Fusion Server on site.
- Integration with London Blu Audio systems already installed.
- Install partition sensors on all air walls to automatically control room combining, with software overrides in case of unusual setups.
- Integration to existing lighting system if possible.
- Necessary processors to control everything.

2.0.4 Switching

- Crestron DM-NVX hardware or approved equal.
- Fiber should be used for connections to locations.
- Minimum four strands per drop two for NVX two for spare.
- All fiber should return to IT Closet A and land in an approved patch panel.
- Provide patch cables of appropriate length to reach from patch bays to switch hardware.
- Local power supplies will be necessary.
- Wall inputs, camera inputs, and projector outputs per room based on locations given on map.
- Projector and camera in/outs at ceiling level, except wall outputs for ground setups.
- All wall inputs should have an HDMI port, and USB from the NVX Box feeding the plate.

2.0.5 Audio

- Tie computer audio and wall plate audio into room sound systems. Dante is available with the current installed London Blu processors.

2.0.6 Cameras

- Provide two Axis V5915 cameras per room.
- Input locations listed on map.
- Provide clamp to mount to beams.

2.1 Exhibit Hall Specifics

2.1.1 Exhibit Hall 1

- One touchscreen in rear of room replacing current audio controls.
- Projector locations should be placed in such a way as to hit a set of screens on the floor or the wall.
- Four points in the room as per map.

2.1.2 Exhibit Hall 2

- One touchscreen in rear of room replacing current audio controls.
- Projector locations should be placed in such a way as to hit a set of screens on the floor or the wall.
- Four points in the room as per map.

2.1.3 Ballroom A

- One touchscreen on west wall of room replacing current audio controls.
- Projector locations should be placed in such a way as to hit a set of screens on the floor or the wall.
- Four points in the room as per map.

2.1.4 Ballroom B

- One touchscreen on west wall of room replacing current audio controls.
- Projector locations should be placed in such a way as to hit a set of screens on the floor or the wall.
- Three points in the room as per map.

2.1.5 Computers

- Provide one mini desktop computer per room and install in rack on shelves with NVX card frame.

2.1.6 Electrical

- Provide outlets in ceiling for projectors.
- Any additional circuits to be added to generator panel in mezzanine for IT Closet A.
- Provide cost for UPS to keep screens and other necessary hardware online to relay broadcast messages in the event of a problem.

End Exhibit Hall Section

2.2 General Notes Section

2.2.1 Projectors

- Acceptable Brands: Epson, Barco, or approved equal

2.2.2 Switches

- Cisco, Brocade, or approved equal commercial grade switches. Configured with appropriate power supplies to meet POE requirements with spare power for changes.
- Must have 10gbps uplinks.
- Preferably stacked with existing switches but will need 10GB Network Modules and SFPs.

2.2.3 Controls

- Acceptable Brands: Crestron or approved equal. Approved equal must effortlessly interface with existing Crestron equipment.

2.2.4 Video Switching Hardware

- Crestron DM-NVX.
- Include Crestron DM-NVX XiO Director. Copper cabling acceptable for in closet connections and to areas within reach using Crestron specified cable except for exhibit halls.

2.2.5 TVs

- Acceptable Brands: Promethean, Samsung, LG, and residential models are acceptable.
- Any TVs need to be serial or IP controlled by Crestron control hardware.

2.2.6 Computers

2.2.6.1 Projection

- HP prodesk or approved equal business class mini computers.
- Must be integrated to sound system in associated room.
- USB hub and keyboard mouse all-in-one combo for each computer to be mounted in room by staff when requested for an event. (Such as Logitech K400r.)
- Install shelves in racks with NVX Card Frame devices and install computers to shelves.
- License for Dante Virtual Soundcard for each PC also, to tie into sound system.
- No monitors.
- No Windows Home Editions.

2.2.6.2 Control

- HP Business class or approved equal.
- Minimum 23-inch monitor to be supplied with computer.
- Must have Windows 10 Enterprise with appropriate licensing no home versions.
- Current version of Microsoft Office License to be provided with computers.
- Should be at least dual core.
- At least 8 GB of ram.
- SSDs for primary drives.

2.2.6.3 Audio

- Any additional processors added shall be London Blu (with Dante) tied into existing exhibit hall systems.

2.2.6.4 UPS

- APC or Eaton.
- Must include network card for remote monitoring.

2.2.6.5 Mounts

- Chief, or approved equal.

2.2.6.6 Cabling

- All cat (5e, 6, and 7) cabling should terminate in Keystone Jacks at ends with jumpers to reach equipment and labels following scheme at both ends outside of a foot from the end of cable.
- All Crestron or approved equal connections and cabling must meet manufacturer's specifications.
- All Installed cabling, ports, outlets, and equipment must be labeled and match up with existing building labeling e.g.
- Network: AB48 (where A = Closet Name, B = Patch Panel Name, 48 = patch panel port number).
- Electrical: LL-1-3 105 (Where LL = 120V systems, 1 = Floor, 3 = Area, and 105 = Circuit breaker number).

2.2.6.7 Programming

- We require any and all editable programming files related to the project on a flash drive or DVD when project is completed.
- Programmer must have completed Crestron Classes including CTI-Fusion-P and CTI-P301.

2.3 As-Builts or Drawings

- Awarded contractor shall provide system design and drawings of each room once the project is finished.

All approved equals shall be submitted to Scott Rust, Purchasing Manager via email to srust@siouxfalls.org by October 24, 2 p.m. CST.

X-Halls and Ballrooms placement of inputs and outputs for AV Systems

