Addendum No. 1
January 21, 2019

Project: **Beacom Hall 309 Renovation**
University of South Dakota
Vermillion, South Dakota
Project No: 0927.2815.18

Architect: Architecture Incorporated

Letting: **February 7, 2019**
2:00 PM
University of South Dakota
Purchasing Office
209 Slagle Hall
414 East Clark Street
Vermillion, South Dakota 57069

Scope of this Addendum:

To all bidders and all others to whom drawings and specifications have been issued by Architecture Incorporated, this Addendum forms a part of the Contract Documents. Acknowledge receipt of this addendum by listing its number and date in the bidder's Form of Proposal. Failure to do so may subject bidder to disqualification. This addendum modifies the drawings and specifications as follows:

GENERAL ITEMS:

1) SPECIFICATION SECTION 087100 – DOOR HARDWARE

   a) Refer to Hardware Group #2 at page 14. Provide Storeroom Lock in lieu of Classroom Lock at this group.

2) SPECIFICATION SECTION 115213 – PROJECTION SCREENS

   a) See attached specification section attached to the end of this addendum.

3) DRAWING SHEET 6.10 – RCP - PARTIAL THIRD FLOOR

   a) Clarification – Secuirty Camera By Owner identified in the northeast corner of the room shall be located in the northeast corner of the lay-in ceiling in lieu of the gypsum board ceiling area.

MECHANICAL ITEMS:

NA

ELECTRICAL ITEMS:

1) DRAWING SHEET 9.11 – ELECTRICAL PLAN

   a) Reference Third Floor Electrical Plan:
      i) Eliminate Specific Note E202.

ii) At five (5) table connections on south wall, provide duplex receptacle in lieu of j-box.
iii) Eliminate Specific Note E326 and data outlet for ticker display in the middle on the south wall.
iv) Clarification: Only one (1) data outlet is required for ticker display at the west end on the south wall.
v) See Specific Noted E204: Eliminate "and control switches". Owner to provide control/switch for projection screen.
vi) See Specific Note E302: Eliminate "Verify height of j-box with owner prior to rough-in." Add the following: "Install j-box at 18" AFF."
vii) Clarification – Security Camera adjacent north wall shall be located in the northeast corner of the lay-in ceiling in lieu of the gypsum board ceiling area.
viii) See Specific Note E323. Multi-conductor cable to be 18/6 for Reader, 18/2 for Electric Strike, 20/4 for REX, and 22/2 for door position switch. All twisted, stranded, shielded plenum cable.

GENERAL APPROVALS:

The following material or equipment furnished by the manufacturers listed, may be substituted as equivalent providing that each item, material, and piece of equipment conforms to the design and requirement of the specifications.

SECTION	ITEM	MANUFACTURER
26 5100	Interior Lighting Type F4	Finelite
26 5100	Interior Lighting Type F4E	Finelite
26 5100	Interior Lighting Type F8	Finelite
26 5100	Interior Lighting Type X	LSI Lighting

END OF ADDENDUM

SECTION 115213 - PROJECTION SCREENS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Electrically operated, front-projection screens and controls.

B. Related Requirements:

1. [**Section 061000 "Rough Carpentry"**] for wood backing for screen installation.
2. Division 26 Sections for electrical service and connections including device boxes for switches and conduit, where required, for low-voltage control wiring.

1.3 DEFINITIONS

A. Gain: Ratio of light reflected from screen material to that reflected perpendicularly from a magnesium carbonate surface as determined per SMPTE RP 94.

B. Half-Gain Angle: The angle, measured from the axis of the screen surface to the most central position on a perpendicular plane through the horizontal centerline of the screen where the gain is half of the peak gain.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: Show layouts and types of front-projection screens. Include the following:

1. Drop lengths.
2. Location of seams in viewing surfaces.
3. Location of screen centerline relative to ends of screen case.
4. Anchorage details, including connection to supporting structure for suspended units.
5. Details of juncture of exposed surfaces with adjacent finishes.
6. Location of wiring connections for electrically operated units.
7. Wiring diagrams for electrically operated units.
8. Accessories.

C. Samples for Initial Selection: For finishes of surface-mounted screen cases.

1.5 CLOSEOUT SUBMITTALS

A. Maintenance Data: For front-projection screens to include in maintenance manuals.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Environmental Limitations: Do not deliver or install front-projection screens until spaces are enclosed and weathertight, wet work in spaces is complete and dry, and temporary HVAC system is operating and maintaining ambient temperature and humidity conditions at occupancy levels during the remainder of the construction period.

1.7 COORDINATION

A. Coordinate layout and installation of front-projection screens with adjacent construction, including ceiling suspension systems, light fixtures, HVAC equipment, [**fire-suppression system,**] and partitions.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Source Limitations for Projection Screens: Obtain [**front-projection screens**] from single manufacturer. Obtain accessories, including necessary mounting hardware, from screen manufacturer.

2.2 ELECTRICALLY OPERATED, FRONT-PROJECTION SCREENS

A. General: Manufacturer's standard units consisting of case, screen, motor, controls, mounting accessories, and other components necessary for a complete installation. [**Provide units that are listed and labeled as an assembly by UL or another testing and inspecting agency acceptable to authorities having jurisdiction.**]

1. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
2. Controls: Remote, three-position control switch installed in recessed device box with flush cover plate [**matching other electrical device cover plates in room where switch is installed**].

    a. Provide [**two**] control switches [**for each screen**].
    b. Provide power supply for low-voltage systems if required.
    c. Provide [**infrared**] remote control consisting of battery-powered transmitter and receiver.
    d. Provide video interface control for connecting to projector. Projector provides signal to raise or lower screen.

3. Motor in Roller: Instant-reversing motor of size and capacity recommended by screen manufacturer; with permanently lubricated ball bearings, automatic thermal-overload protection, preset limit switches to automatically stop screen in up and down positions, and positive-stop action to prevent coasting. Mount motor inside roller with vibration isolators to reduce noise transmission.
4. Screen Mounting: Top edge securely anchored to rigid metal roller and bottom edge formed into a pocket holding a 3/8-inch-(9.5-mm-) diameter metal rod with ends of rod protected by plastic caps.
   a. Roller for motor in roller is supported by vibration- and noise-absorbing supports.
5. Tab Tensioning: Provide units that have a durable low-stretch cord, such as braided polyester, on each side of screen that is connected to edge of screen by tabs to pull screen flat horizontally. [**In lieu of tab tensioning, screens may be constructed from vinyl-coated screen cloth that contains horizontal stiffening monofilaments to resist edge curling.**]

B. Suspended, Electrically Operated Screens without Ceiling Closure, with Motor-in-Roller, and with Tab Tensioning: Units designed and fabricated for suspended mounting, with bottom of case entirely or partially open under screen compartment.

1. Products: Subject to compliance with requirements, **provide one of the following**:
   a. Da-Lite Tensioned Cosmopolitan Electrol
   b. Or equal product by Draper.
2. Provide metal or metal-lined wiring compartment.
3. Screen Case: Made from [**metal**].
4. Finish on Exposed Surfaces: **Vinyl covering or baked enamel**].
5. Provide silent motor with integrated low voltage control.

2.3 FRONT-PROJECTION SCREEN MATERIAL

A. Matte-White Viewing Surface: Peak gain of not less than 0.9, and gain of not less than 0.8 at an angle of 50 degrees from the axis of the screen surface.

1. Products: Subject to compliance with requirements, [**provide one of the following**]:
   a. Da-Lite Screen Company; Matte White
   b. Or equal product by Draper.

B. Material: **Vinyl-coated, glass-fiber fabric**.

C. Mildew-Resistance Rating: Zero or 1 when tested according to ASTM G 21.

D. Flame Resistance: Passes NFPA 701.

E. Flame-Spread Index: Not greater than 75 when tested according to ASTM E 84.

F. Seamless Construction: Provide screens, in sizes indicated, without seams.

G. Size of Viewing Surface: 69 by 110 inches – wide (16:10) format dimensions.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install front-projection screens at locations indicated to comply with screen manufacturer's written instructions.

B. Install front-projection screens with screen cases in position and in relation to adjoining construction indicated. Securely anchor to supporting substrate in a manner that produces a smoothly operating screen with vertical edges plumb and viewing surface flat when screen is lowered.

1. Install low-voltage controls according to NFPA 70 and complying with manufacturer's written instructions.

a. Wiring Method: Install wiring in raceway except in accessible ceiling spaces and in gypsum board partitions where unenclosed wiring method may be used. Use UL-listed plenum cable in environmental air spaces, including plenum ceilings. Conceal raceway and cables except in unfinished spaces.

2. Test electrically operated units to verify that screen controls, limit switches, closures, and other operating components are in optimum functioning condition.
3. Test manually operated units to verify that screen-operating components are in optimum functioning condition.

END OF SECTION 115213