**Statement of Work: Audio/Visual(AV) Equipment and Installation (BLDG 3576 & 3701)**

**Project Name:** 154th Regional Training Institute 3576 Classroom AV update and 3701 Conference Room and Office AV Installation

1. **Introduction & Project Overview**

   This document outlines the scope of work for the supply and installation of audio/visual equipment and related services for the 154th Regional Training Institute at Buildings 3576 and 3701, Camp Shelby, Mississippi. The goal of this project is to upgrade and enhance the AV capabilities in classrooms, conference room, and offices within the buildings to support improved training and live streaming capabilities.

   The scope includes the supply of equipment, professional installation, configuration, and testing to ensure high-quality audio/visual experience for all users.

   The contractor shall install only commercial-grade A/V products throughout the installation to ensure durability, reliability, and consistent performance in a professional environment. All equipment must be designed and rated for continuous, heavy use typical of commercial settings. The contractor is responsible for adhering to industry standards and manufacturer guidelines during installation to guarantee system robustness, ease of maintenance, and long-term functionality suitable for high-traffic areas.

2. **Project Goals & Objectives**
   - **Goal 1:** Upgrade 8 classroom AV systems to support opposing Instructor-Facing Displays for presentation and instruction
     - Objective 1: Update and Install opposing Instructor-Facing Displays with wireless video/audio extender and HDMI distribution
   - **Goal 2:** Install AV systems in 3701 to support video conferencing and/or presentation
     - Objective 1: Install A/V systems in Conference Room to support high-quality video conferencing and presentation
     - Objective 2: Install digital display in Instructor Hallway that integrates with pre-existing unit software to display class schedules
     - Objective 3: Provide Instructor Offices with digital displays

## 3. Scope of Supply

**CLIN 0001 – Building 3576 BLC**

| Item No. | Item | Item Description | Qty |
|---|---|---|---|
| **1** | Large Format Commercial Display | A professional-grade digital display, 75-inch class, with a minimum 4K UHD (3840x2160) resolution, rated for commercial use (e.g., 16/7 operation). | 16 |
| **2** | Universal Tilting Wall Mount | A UL-listed, professional-grade tilting wall mount compatible with the specified display's VESA pattern and weight capacity. | 16 |
| **3** | Enterprise Wireless Presentation System | A 4K-capable wireless screen sharing gateway that supports native, app-free casting for major operating systems (e.g., Miracast, AirPlay, Google Cast). | 8 |
| **4** | AI-Powered 4K Conference Camera | A USB-connected conference room camera with a 4K image sensor, featuring software-driven AI capabilities like intelligent auto-framing and auto-tracking. | 8 |
| **5** | Wall-Mounted HDMI Input Plate | A single-gang, Decora-style wall plate providing one (1) female HDMI pass-through connection for user device input. | 8 |
| **6** | 12 ft. High-Speed HDMI Cable | A 12-foot HDMI cable certified to support a minimum bandwidth of 18Gbps, capable of transmitting 4K/60Hz video and HDCP 2.2 compliant. | 8 |
| **7** | 6 ft. High-Speed HDMI Cable | A 6-foot HDMI cable certified to support a minimum bandwidth of 18Gbps, capable of transmitting 4K/60Hz video and HDCP 2.2 compliant. | 8 |
| **8** | 50 ft. Active Optical HDMI Cable | A 50-foot Active Optical HDMI Cable (AOC) rated for in-wall installation, certified to carry an 18Gbps signal over long distance without degradation. | 8 |
| **9** | 1-in, 2-out HDMI Distribution Amplifier | A compact device designed to split a single HDMI source into two (2) simultaneous outputs, supporting 4K/60Hz video and HDCP 2.2 compliant. | 8 |
| **10** | 15 ft. High-Speed USB-C Cable | A 15-foot USB-C male-to-male cable supporting a minimum data rate of 10Gbps and DisplayPort Alternate Mode for 4K video transmission. | 8 |
| **11** | Commercial-Grade Power Strip | A UL-listed power distribution unit with a minimum of six (6) outlets and integrated surge protection, | 16 |

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| | | suitable for mounting within a cabinet or behind a display. | |
| **12** | Medium Format Commercial Display | A professional-grade digital display, 49-inch class, with a minimum 4K UHD (3840x2160) resolution, rated for commercial use (e.g., 16/7 operation). | 16 |

**CLIN 0002 – Building 3701 Conference Room**

| Item No. | Item | Item Description | Qty |
|---|---|---|---|
| **1** | Extra-Large Format Commercial Display | A professional-grade digital display, 85-inch class, with a minimum 4K UHD (3840x2160) resolution, rated for continuous commercial use (e.g., 16/7 operation). | 1 |
| **2** | Large Format Commercial Display | A professional-grade digital display, 75-inch class, with a minimum 4K UHD (3840x2160) resolution, rated for continuous commercial use (e.g., 16/7 operation). | 2 |
| **3** | Micro-Adjustable Tilting Wall Mount | A UL-listed, professional-grade tilting wall mount with post-installation micro-adjustment capabilities, compatible with the specified displays' VESA patterns and weight. | 3 |
| **4** | In-Wall Component Storage Box | A metal in-wall storage box with a mounting plate (approx. 15" x 10") designed for concealing small A/V devices discreetly behind a wall-mounted display. | 1 |
| **5** | Ceiling Array Microphone System with USB Interface | A networked ceiling array microphone (square form factor) with automatic coverage technology. Must include an audio network interface to convert Dante audio to a USB connection for PC-based conferencing. | 1 |
| **6** | PoE+ Network Switch with Dante Optimization | A managed network switch with sufficient PoE+ (Power over Ethernet) budget for all connected devices, pre-configured or optimized for Dante audio-over-IP network traffic. | 1 |
| **7** | AI-Powered Large Room Conference Camera | A USB-connected conference camera designed for large meeting rooms, featuring a 4K image sensor and AI-directed functionality such as "Genius Framing" or dynamic group framing. | 1 |
| **8** | Wall-Mounted HDMI Input Plate | A single-gang, Decora-style wall plate providing one (1) female HDMI pass-through connection for user device input. | 1 |

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|---|---|---|---|
| **9** | 12 ft. High-Speed HDMI Cable | A 12-foot HDMI cable certified to support a minimum bandwidth of 18Gbps, capable of transmitting 4K/60Hz video and HDCP 2.2 compliant. | 2 |
| **10** | 6 ft. High-Speed HDMI Cable | A 6-foot HDMI cable certified to support a minimum bandwidth of 18Gbps, capable of transmitting 4K/60Hz video and HDCP 2.2 compliant. | 1 |
| **11** | 50 ft. Active Optical HDMI Cable | A 50-foot Active Optical HDMI Cable (AOC) rated for in-wall installation, certified to carry an 18Gbps signal over long distance without degradation. | 2 |
| **12** | 1-in, 4-out HDMI Distribution Amplifier | A compact device designed to split a single HDMI source into four (4) simultaneous outputs, supporting 4K/60Hz video and HDCP 2.2 compliant. | 1 |
| **13** | 15 ft. High-Speed USB-C Cable | A 15-foot USB-C male-to-male cable supporting a minimum data rate of 10Gbps and DisplayPort Alternate Mode for 4K video transmission. | 2 |

**CLIN 0003 - 3701 Instructor Hallway**

| Item No. | Item | Item Description | Qty |
|---|---|---|---|
| **1** | Medium Format Digital Signage Display | A professional-grade digital display, 55-inch class, with an integrated System-on-Chip (SoC) for content management and playback. Must be rated for extended commercial use and work with existing software | 1 |
| **2** | Medium Tilting Wall Mount | A UL-listed, professional-grade tilting wall mount with post-installation leveling, compatible with the specified display's VESA pattern and weight capacity. | 1 |
| **3** | Network Cabling and Termination | Provide one (1) new Category 6 (or better) network drop from the nearest telecommunications room (IDF) to a single-gang wall plate behind the display location. The drop shall be terminated with a certified RJ45 keystone jack. | 1 |
| **4** | Ethernet patch cable | Factory-terminated Category 6 Ethernet patch cable to connect the display to the network wall plate. | 1 |

**CLIN 0004 - 3701 Instructor Offices**

| Item No. | Item | Item Description | Qty |
|---|---|---|---|
| **1** | Small/Medium Format Commercial Display | A professional-grade digital display, 49-inch class, with a minimum 4K UHD (3840x2160) resolution, rated for continuous commercial use (e.g., 16/7 operation). | 12 |

**CLIN 0005 – Installation Services**

| Item No. | Item | Item Description | Qty |
|---|---|---|---|
| **1** | Installation for 3576 | Contractor/Offeror shall provide all necessary installation and configuration of all commercial-grade A/V equipment listed in above CLIN's. | 1 |
| **2** | Installation for 3701 | Contractor/Offeror shall provide all necessary installation and configuration of all commercial-grade A/V equipment listed in above CLIN's. | 1 |

## 4. Scope of Installation

- **Supervision & Labor:** Contractor/Offeror shall provide all supervision, installation labor, equipment, material, and supplies necessary for the installation of listed AV components in Buildings 3576 and 3701
- **Mounting:** Contractor/Offeror shall securely mount all commercial-grade displays, cameras, speakers, and other hardware per manufacturer guidelines and industry best practices, ensuring structural integrity and aesthetics.
- **Wiring & Cabling:** Contractor/Offeror shall run and terminate all power, signal, and data cables with neat, concealed routing where feasible (including in-wall and raceways).
- **System Configuration:** Contractor/Offeror shall configure AV equipment including display settings, audio levels, HDMI distribution, wireless extender setup, and network connectivity.
- **Control System Programming:** Contractor/Offeror shall program control interfaces where applicable to enable intuitive operation of AV systems.

- **Testing & Commissioning:** Contractor/Offeror shall conduct comprehensive testing of all components and full system to verify functionality and performance.
- **Site Preparation:** Site preparation, such as patching walls or conduit installation, is the responsibility of the government unless otherwise specified.
- **Power Requirements:** The government shall verify adequate power supply and install necessary power distribution units (PDUs).
- **Network Coordination:** Collaborate with the government's IT department to ensure proper network configuration and connectivity.
- **Clean-up:** Contractor/Offeror shall remove all packaging, debris, and equipment-related waste, leaving installation sites clean and operational.

**5. Project Timeline**

- The Contractor/Offeror shall ensure all commercial grade A/V equipment is on ground with appropriate installation labor to install said equipment with a target completion date of no later than 45 days after award of contract.

**6. Warranty**

- All equipment is covered by the respective manufacturers' standard warranty.
- Installation workmanship guaranteed for 1 year from project completion. Contractor shall respond to emergency support request withing 48 hours of notification.

**7. Exclusions**

- Structural modifications to the building.
- IT network infrastructure upgrades beyond AV system connectivity.
- Content creation for digital signage or presentations.
- Crestron products are prohibited from this project per Mississippi Army National Guard regulations.