

THE UNIVERSITY OF IOWA
DESIGN STANDARDS & PROCEDURES
 2026 EDITION

PREFERMENT # 2

EFFECTIVE DATE: **February 17, 2026**

The information contained in this Preferment modifies, supplements, or replaces information contained in The University of Iowa Design Standards & Procedures.

APPLICABLE SECTION:

Section III – General Design Standards and Outline Specifications and Details

27) Communications

11. Audio Visual (A/V) Systems

Page # in 2026 Edition	Outline number	Outline Title	Action	Outline Number	Outline Title
435	11.1	General and all sub-points	Replace with	11.1	General and all sub-points listed below.
436	11.2	Submittals and Shop Drawings and all sub-points	Replace with	11.2	Submittals and Shop Drawings and all sub-points listed below
436	11.3	Pathways and Cables and all sub-points	Replace with	11.3	Pathways, Backboxes, Cabling and all sub-points listed below
437	11.4	Control Equipment and all sub-points	Replace with	11.4	Equipment Housing, Mounts and all sub-points listed below.
437	11.5	Network Switches and all sub-points	Remove	NA	
437	11.6	Switching and Distribution and all sub-points	Remove	NA	
437	11.7	Audio Equipment and all sub-points	Remove	NA	
438	11.8	Video (Visual Equipment) and all sub-points	Remove	NA	
438	11.9	Equipment Racks, Lecterns, Mounts, and Back Bones and all sub-points	Remove	NA	
439	11.10	Miscellaneous Equipment and all sub-points	Remove	NA	

11. Audio Visual (A/V) Systems:

11.1. General

- 11.1.1. ITS Physical Infrastructure A/V Design (ITS-PhysInfrastructure-AVDesign@iowa.uiowa.edu) shall approve all A/V designs, including equipment locations, accepted models, and designs.
- 11.1.2. Integrator shall follow AVIXA industry standards including AVIXA AV/IT Infrastructure Guidelines for Higher Education Audiovisual Best Practices.
- 11.1.3. All A/V designs shall allow for electronics installation in compliance with current [Americans with Disabilities Act guidelines](#).
- 11.1.4. All A/V electronics racks and lecterns shall have a dedicated 20a circuit, Labeled and identified in the breaker panel and faceplate.

11.2. Submittals and Shop Drawings:

- 11.2.1. All submittals shall be sent to the design team and to ITS Physical Infrastructure A/V Design (ITS-PhysInfrastructure-AVDesign@iowa.uiowa.edu).
- 11.2.2. Submittals shall include functional narrative, equipment specifications, floor plan locations, front of room elevations and sightline diagrams, reflected ceiling plans indicating any speaker/microphone locations, rack elevations, and equipment riser diagram showing equipment terminations.
- 11.2.3. All completed projects should include submittals for final as-built drawings.
- 11.2.4. Upon project completion, all A/V program files including but not limited to control system source code, GUI files and DSP/audio configurations shall be submitted to ITS Physical Infrastructure A/V Design ([ITS-PhysInfrastructure-AVDesign@iowa.uiowa.edu](#)).
- 11.2.5. Provide EASE (Enhanced Acoustics Simulator for Engineers), or equivalent acoustic model for auditoriums, screening rooms, or special use rooms.
- 11.2.6. All spaces supporting A/V shall be designed to ANSI/ASA S12.60; Acoustical Performance Criteria, Design Requirements, and Guidelines for Schools

11.3. Pathways, Backboxes, Cabling

11.3.1. Pathways

- 11.3.1.1. Pathways shall be specific for A/V cables.
- 11.3.1.2. All conduits shall be sized 1 ¼" inch. Unless otherwise noted.
- 11.3.1.3. All conduits shall have plastic bushing on the ends to prevent cable scraping.
- 11.3.1.4. All conduits shall have a pull line installed from end to end.
- 11.3.1.5. All A/V boxes in the same stud cavity shall daisy-chain to each other via 1 1/4-inch conduit pathway and shall stub out above the ceiling.
- 11.3.1.6. Floor boxes shall have a pathway to stub above the ceiling.
- 11.3.1.7. Above ceiling, cabling shall be installed in 1 1/4-inch conduit for all horizontal runs within room to within two feet of vertical conduit stubs.

11.3.2. Rough-in boxes

- 11.3.2.1. **Room schedulers, keypads, wall-mounted touch interfaces** - Randl Industries Inc., 5 Square Telecommunications Box, part number T-55017 with 2 gang mud-rings at height defined in [ADAG Section 309, Operating Parts](#).
- 11.3.2.2. **PTZ Wall camera** - Randl Industries Inc., 5 Square Telecommunications Box, part number T-55017 with 2 gang mud-ring at height defined in [ADAG Section 307, Protruding Objects](#).
- 11.3.2.3. **TVs/LED Displays** - FSR PWB100-WHT mounted at heights designated by design team.

- 11.3.2.4. **Credenzas/A/V Racks/Cabinets** – Randl Industries Inc., 5 Square Telecommunications Box, part number T-55017 with 1 gang mud-ring at standard outlet height.
 - 11.3.2.5. **Floor boxes** – All floor boxes shall have dedicated A/V 1 ¼" conduit stubbed directly to above ceiling.
 - 11.3.2.6. **Projectors** – Pathways to projectors shall terminate within 24 inches of projector location.
 - 11.3.3. **A/V Cabling**
 - 11.3.3.1. All cabling shall be homerun; no splicing allowed.
 - 11.3.3.2. **Cat6a Shielded Twisted Pair** – GigaSPEED X10D® 2291B ETL Verified Category 6A F/UTP Cable, plenum, slate jacket, 4 pair count (760122655).
 - 11.3.3.3. **Cat6a Unshielded Twisted Pair** – All A/V-over-IP, USB extension, and A/V communication category cables shall be GigaSPEED X10D® 2091SDB ETL Verified Category 6A U/UTP Cable, plenum, slate jacket, 4 pair count (760253623)
 - 11.3.3.4. **Plenum-Rated Loudspeaker/Communications Cable** – Plenum-CL2P AWG stranded copper conductors (Belden 6200UE or equivalent).
 - 11.3.3.5. **Plenum-Rated Control Cables** – 22/2 shielded, Plenum-CL2P stranded copper conductors (Belden 9451p or equivalent).
 - 11.3.3.6. Cable shall be properly rated for use case (riser, plenum, or wet location installation). All cables installed within walls or above ceiling shall be plenum rated.
 - 11.3.4. All A/V-over-IP cables shall be terminated in patch panels at the equipment rack. For approved patch panel, refer to section 27.7.2.1.
 - 11.3.5. All A/V cabling shall be labeled in accordance with [AVIXA standards](#)
 - 11.3.6. Hook and loop (Velcro) fasteners shall be used for cable management; tie wraps or zip ties are not acceptable.
 - 11.3.7. All abandoned A/V low-voltage cables shall be removed.
- 11.4. **Equipment Housing, Mounts**
- 11.4.1. All A/V equipment shall be housed in A/V specified credenzas, lecterns and equipment racks.
 - 11.4.1.1. Credenzas shall be Middle Atlantic C3 or equivalent with finish coordinated with design team.
 - 11.4.1.2. Lecterns shall be electronically height adjustable, ADA compliant Spectrum UIOWA, XRS or Freedom Pro Models or equivalent.
 - 11.4.1.3. All custom-built millwork housing A/V equipment requires ITS AV Services approval of a detailed submittal outlining ventilation and thermal management and equipment racks.

ATTACHMENT(S): **None**

END OF PREFERMENT