

## U of I Facilities Standards – Updates for 2019

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Updates to the U of I Facilities Standards will occur on a periodic basis (typically all standards will be reviewed for accuracy & completeness every 3 years), as noted by the “LAST REVIEWED” date in the document footer or title block of a drawing. These updates shall be in force at the time of posting on the U of I Facilities Standards website. Standards in force at the time of a Professional Services Consultants (PSC) signed contract shall apply through the life of the project’s contract. For convenience, updates will be incorporated into the main body of the Standards with revisions clearly shown.

### Notation used in the Updated Documents:

**Revised File:** A vertical line in the margin of a document indicates that the material differs from the previous edition. This material should be reviewed carefully, as some requirements may have changed.

**Completely Revised File:** Occasionally a standard will need to be completely or almost completely revised. There will not be a vertical line in the margin of a document indicating all the changes. The footer date will be updated and the document should be reviewed as a new standard.

**New File:** A new file within the General Requirements, General Guidelines, Technical Sections, Exhibits or Drawing Details directory will not have a vertical line.

PLEASE REVIEW THE FILES LISTED BELOW FOR THE EDITS THAT HAVE BEEN MADE TO THE STANDARD.

Section	Standards Document*	New Standard?
General Requirements	<i>Historic Preservation Review Procedures</i>	
General Guidelines – Building Elements	<i>Conference Rooms</i>	
	<i>Offices</i>	
	<i>Computer Labs &amp; Workstation Centers</i>	
	<i>Remodeling, Special Considerations</i>	
	<i>Stairs, Stairwells</i>	
	<i>Room Number Assignment &amp; Room Use Standards</i>	

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<b>Section</b>	<b>Standards Document*</b>	<b>New Standard?</b>
	<i>Structural Considerations</i>	
	<i>Restrooms, Shower Rooms, Locker Rooms</i>	
	<i>Keying Systems &amp; Lockset Functions</i>	
<i>General Guidelines – Building Systems</i>	<i>Energy Management, Building Automation Systems</i>	
	<i>Equipment Naming Convention</i>	
	<i>Electrical Systems, Building</i>	
<i>General Guidelines - Sites &amp; Grounds</i>	<i>Traffic Signals and Emergency Beacons</i>	
	<i>Construction Staging Area</i>	
	<i>Parking</i>	
<i>General Guidelines - Utilities</i>	<i>Sanitary Sewer Systems</i>	
	<i>Storm Water Drainage Systems</i>	
<i>Technical Sections: Division 01 - Administrative</i>	<i>01 76 00 - Protecting Installed Construction</i>	
	<i>01 91 13 - General Commissioning Requirements</i>	
	<i>01 78 23 - Operation and Maintenance Data</i>	
	<i>01 78 39 - Project Record Documents</i>	
	<i>01 79 00 - Demonstration and Training</i>	
	<i>01 32 00 - Construction Progress Schedules</i>	
	<i>01 55 00 - Vehicular Access and Parking</i>	
	<i>01 56 00 - Temporary Barriers and Enclosures</i>	
	<i>01 31 00 - Project Management and Coordination</i>	
<i>Technical Sections: Division 04 - Masonry</i>	<i>04 20 00 – Unit Masonry</i>	
<i>Technical Sections:</i>	<i>07 10 00 - Waterproofing and Dampproofing</i>	
	<i>07 21 00 - Building Insulation</i>	
	<i>07 30 00 - Sloped Roofing</i>	

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<b>Section</b>	<b>Standards Document*</b>	<b>New Standard?</b>
<i>Division 07 - Thermal and Moisture Protection</i>	<i>07 62 00 - Sheet Metal Flashing and Trim</i>	
	<i>07 71 00 - Roof Specialties</i>	
	<i>07 92 00 - Joint Sealants</i>	
<i>Technical Sections: Division 08 - Openings (Doors and Windows)</i>	<i>08 11 13 - Hollow Metal Doors and Frames</i>	
	<i>08 31 00 - Access Doors and Panels</i>	
	<i>08 33 23 - Overhead Coiling Doors</i>	
	<i>08 51 13 - Aluminum Windows</i>	
	<i>08 52 13 - Aluminum Clad Wood Windows</i>	
	<i>08 71 00 - Door Hardware</i>	
	<i>08 81 00 - Glazing</i>	
<i>08 42 29 - Automatic Entrance Doors</i>		
<i>Technical Sections: Division 10 - Specialties</i>	<i>10 44 00 - Fire Extinguisher Cabinets and Accessories</i>	
<i>Technical Sections: Division 11 - Equipment</i>	<i>11 24 29 - Facility Fall Protection</i>	
<i>Technical Sections: Division 22 - Plumbing</i>	<i>22 07 16 - Plumbing Equipment Insulation</i>	
	<i>22 07 19 - Plumbing Piping Insulation</i>	
	<i>22 10 00 - Plumbing Piping</i>	
	<i>22 11 23.13 - Domestic Water Pressure Boosting Systems, VFD</i>	
	<i>22 13 16 - Sanitary Waste and Vent Piping</i>	
	<i>22 13 29 - Sanitary and Storm Sewer Pumps</i>	Changed title
	<i>22 40 00 - Plumbing Fixtures</i>	
<i>Technical Sections: Division 23 - Heating, Ventilating,</i>	<i>23 57 00 - Heat Exchangers for HVAC</i>	Y
	<i>23 21 13.43 - Pipe Joining</i>	Y
	<i>23 22 23 - Steam Condensate Pumps</i>	

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<b>Section</b>	<b>Standards Document*</b>	<b>New Standard?</b>
<i>and Air Conditioning (HVAC)</i>	<i>23 23 00 - Refrigerant Piping</i>	
	<i>23 25 10 - Fluid Filtration</i>	
	<i>23 31 00 - HVAC Ducts</i>	
	<i>23 33 00 - Air Duct Accessories</i>	
	<i>23 37 00 - Air Outlets and Inlets</i>	
	<i>23 40 00 - HVAC Air Cleaning Devices</i>	Changed title
	<i>23 09 13 - Instrumentation and Control Devices for HVAC</i>	
	<i>23 09 13.33 - Control Valves</i>	
<i>Technical Sections: Division 26 - Electrical</i>	<i>26 52 00 - Exit and Emergency Lighting</i>	
	<i>26 56 00 - Exterior Lighting</i>	
	<i>26 05 19 - Conductors and Cable</i>	
	<i>26 05 33 - Raceways</i>	
	<i>26 08 10 - Electrical System Start-Up</i>	
	<i>26 09 13 - Power Monitor for Electrical, Steam and Water</i>	
	<i>26 11 16 - Secondary Unit Substations</i>	
	<i>26 11 21 - Service Entrances</i>	
	<i>26 22 13 - Transformers</i>	
	<i>26 23 00 - Low Voltage Switchgear</i>	
	<i>26 24 13 - Switchboards</i>	
	<i>26 27 13 - Electrical Metering</i>	
	<i>26 29 23 - Variable Frequency Motor Controllers</i>	
	<i>26 32 00 - Generator Assemblies</i>	
<i>26 60 00 - Common Motor Requirements</i>		
<i>Technical Sections: Division 27 - Communications</i>	<i>27 53 13 - Clock and Bell Systems</i>	

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<b>Section</b>	<b>Standards Document*</b>	<b>New Standard?</b>
<i>Technical Sections: Division 28 – Electrical Safety and Security</i>	<i>28 23 00 - Video Camera System</i>	
<i>Technical Sections: Division 31 - Earthwork</i>	<i>31 25 00 - Erosion and Sedimentation Control</i>	
<i>Technical Sections: Division 32 - Exterior Improvements</i>	<i>32 84 23 - Underground Irrigation Systems</i>	
	<i>32 91 19.13 - Topsoil Placement and Grading</i>	
<i>Technical Sections: Division 33 - Utilities</i>	<i>33 05 26.23 - Utility Identification Trace Wires</i>	
	<i>33 10 00 - Water Utilities</i>	
	<i>33 30 00 - Sanitary Sewerage Systems</i>	
	<i>33 40 00 - Stormwater Utilities</i>	
	<i>33 71 19 - Electrical Manholes</i>	
<i>Exhibits</i>	<i>Exhibit 01 33 23-01 Electronic Construction Submittal Process</i>	
	<i>Exhibit 01 77 00-10, Lighting Requirements FSQA Pre-Substantial Verification Checklist</i>	
	<i>Exhibit 01 77 00-04, Heating Requirements EQA Pre-Substantial Verification Checklist</i>	
	<i>Exhibit 01 77 00-05, Cooling Requirements EQA Pre-Substantial Verification Checklist</i>	
	<i>Exhibit 01 77 00-06, Ventilation Requirements EQA Pre-Substantial Verification Checklist</i>	
	<i>Exhibit 01 91 13-04A, Sample Functional Test (AHU Sequence)</i>	Y
	<i>Exhibit 23 09 13-01a, Central Chilled Water Sequence of Operation</i>	
	<i>Exhibit 01 77 00-12, Fire Alarm Requirements FSQA Pre-Substantial Verification Checklist</i>	
	<i>Exhibit 32 93 00-01, Approved Plant List</i>	
	<i>Exhibit 14 20 00-01, AE Process for Elevator Specification and Drawing Development</i>	
	<i>Exhibit 14 20 00-02, Elevator Design Process Worksheet</i>	
<i>Exhibit 14 20 00-03, Elevator Job End Submittals Acceptance Document</i>		

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<b>Section</b>	<b>Standards Document*</b>	<b>New Standard?</b>
	<i>Exhibit 14 21 00-01, Electric Traction Elevator Modernization Checklist</i>	
	<i>Exhibit 14 24 00-01, Hydraulic Elevator Modernization Checklist</i>	
<b>Drawing Details</b>	<i>Drawing 23 09 05-01, Controls Symbols</i>	
	<i>Drawing 23 09 05-01, Controls Symbols</i>	
	<i>Drawing 23 09 05-12, Chilled Water Bldg Entrance - Flow Control Valve</i>	
	<i>Drawing 23 09 23-06, Supply &amp; Return Fan VFD Safety Control Diagram</i>	
	<i>Drawing 10 28 13-01, Toilet Tissue Dispenser</i>	
	<i>Drawing 28 30 00-01, Disconnect Switches for XLS System</i>	
	<i>Drawing 28 30 00-03, Masterbox Connections</i>	
	<i>Drawing 28 30 00-05, Hub Power Disconnect for XLS System</i>	Y
	<i>Drawing 10 14 03-03, Interior Identification System - Type 2b, Room Number &amp; Name with Secondary Information</i>	
	<i>Drawing 10 14 03-04, Interior Identification System - Type 2c, Room Name for Special Conditions</i>	
	<i>Drawing 10 14 03-05, Interior Identification System - Type 3a, Room Number with Changeable Insert Holder</i>	
	<i>Drawing 10 14 03-06, Interior Identification System - Type 3b, Room Number &amp; Name with Changeable Insert Holder</i>	
	<i>Drawing 10 14 03-07, Interior Identification System - Type 3c, Room Name with Two Changeable Insert Holders</i>	
	<i>Drawing 10 14 03-08, Interior Identification System - Type 4a, Conference Room Number &amp; Name with Slider</i>	
	<i>Drawing 10 14 03-09, Interior Identification System - Type 5a, Symbol with Message, Wall or Door Mount</i>	
	<i>Drawing 10 14 03-10, Interior Identification System - Type 5b, Symbol with Message, Wall or Door Mount</i>	
	<i>Drawing 10 14 03-11, Interior Identification System - Type 5c, Symbol with Message, Right Angle Mount</i>	
<i>Drawing 10 14 03-12, Interior Identification System - Type 5d, Symbol with Message, Wall or Door Mount</i>		

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Section	Standards Document*	New Standard?
	<i>Drawing 10 14 03-13, Interior Identification System - Type 6a, Floor Level Identifier</i>	
	<i>Drawing 10 14 03-14, Interior Identification System - Type 6b, Stairwell Floor Level Identifier</i>	
	<i>Drawing 10 14 03-15, Interior Identification System - Type 7a, Elevator Warning</i>	
	<i>Drawing 10 14 03-16, Interior Identification System - Type 7b, Elevator Warning</i>	
	<i>Drawing 10 14 03-17, Interior Identification System - Type 7c, Elevator Warning</i>	
	<i>Drawing 01 56 00-01, Tree Protection Fencing Requirements</i>	
	<i>Drawing 12 93 13-01, Bicycle Rack Installation</i>	
	<i>Drawing 12 93 43-01, Concrete Bench</i>	
	<i>Drawing 12 93 53-01, Fixed Bollard</i>	
	<i>Drawing 07 62 00-01, Typical Equipment Curb Detail</i>	
	<i>Drawing 07 62 00-02, Curb Cap Detail</i>	
	<i>Drawing 10 57 23-01, Lamp Storage Room</i>	
	<i>Drawing 22 15 13-01, Compressed Air System Building Service Entrance Detail</i>	
	<i>Drawing 22 35 24-01, Steam To Domestic Hot Water Generator Installation</i>	
	<i>Drawing 27 00 00-10, Communications Typical 12' x 6' x 7' "J" Manhole - Interior View</i>	
	<i>Drawing 27 00 00-11, Communications Indoor Emergency Phone – Surface Mount</i>	
	<i>Drawing 27 00 00-12, Communications Indoor Emergency Phone - Flush Mount</i>	
	<i>Drawing 27 00 00-13, Communications Outdoor Emergency Phone</i>	
	<i>Drawing 27 00 00-14, Communications Outdoor Emergency Phone Kiosk – Copper Fed</i>	
	<i>Drawing 27 00 00-15, Communications Outdoor Emergency Phone Kiosk Mounting Base</i>	
	<i>Drawing 27 00 00-15A, Communications Outdoor Emergency Phone Kiosk Mounting Base Plate Installation</i>	
	<i>Drawing 27 00 00-21, Communications Typical Rack Detail</i>	
	<i>Drawing 27 00 00-22, Communications Patch Panel</i>	
	<i>Drawing 27 00 00-23, Communications Cable Tray Sizing Chart</i>	
	<i>Drawing 27 00 00-24, Communications Typical Station Outlet</i>	

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<b>Section</b>	<b>Standards Document*</b>	<b>New Standard?</b>
	<i>Drawing 27 00 00-25, Communications Cable Identification in FDF or CER</i>	
	<i>Drawing 27 00 00-26, Communications Recessed Floor Station</i>	
	<i>Drawing 27 00 00-27, Communications Typical Station Outlet For Modular Furniture</i>	
	<i>Drawing 27 00 00-28, Communications Typical Wall Phone</i>	
	<i>Drawing 27 00 00-29, Communications Wireless Access Point (WAP) - Above Ceiling Conduit &amp; Device Box</i>	
	<i>Drawing 27 00 00-30, Communications Wireless Access Point (WAP) - Above Ceiling Cable Tray Mount</i>	
	<i>Drawing 27 00 00-31, Communications Sleeves &amp; Conduits Through Floor</i>	
	<i>Drawing 27 00 00-32, Communications Station Cable Conduit Sizing</i>	
	<i>Drawing 27 00 00-33, Communications Typical Below Ceiling Cable Tray</i>	
	<i>Drawing 27 00 00-34, Communications Typical Station Outlet Identification</i>	
	<i>Drawing 27 00 00-35, Communications PIN Configurations For Voice/Data Jacks</i>	

<b>Section</b>	<b>Standard Document*</b>	<b>Deleted?</b>
<i>Exhibit</i>	<i>23 09 23-01a, Example Building Main Navigation Screen</i>	Y
	<i>23 09 23-01b, Example Building Main Navigation Screen</i>	Y
	<i>23 09 23-02a, Example AHU Graphics Screen</i>	Y
	<i>23 09 23-02b, Example AHU Graphics Screen</i>	Y
	<i>23 09 23-04a, Example VAV Navigation Screen</i>	Y
	<i>23 09 23-04b, Example VAV Navigation Screen</i>	Y

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<b>Section</b>	<b>Standard Document*</b>	<b>Deleted?</b>
	<i>23 09 23-05a, Example VAV Summary Table</i>	Y
	<i>23 09 23-05b, Example VAV Summary Table</i>	Y
	<i>23 09 23-07a, Example VAV Graphics Screen</i>	Y
	<i>23 09 23-07b, Example VAV Graphics Screen</i>	Y
<i>Drawing Details</i>	<i>28 30 00-02, Standard Connections for XLS-V AC DC Power</i>	Y
	<i>28 30 00-04, Phone Bridge</i>	Y
<i>Technical Sections</i>	<i>07 05 00 - Basic Thermal and Moisture Protection Materials and Method</i>	Y
	<i>07 50 00 - Membrane Roofing</i>	Y
	<i>23 57 19 - Shell and Tube Heat Exchangers</i>	Y

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