

**CSU HOUSING & DINING SERVICES TECHNICAL STANDARDS
DIVISION 10 – SPECIALTIES**

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10 10 00 - VISUAL DISPLAY SURFACES

A. Markerboards:

1. All classrooms should have glass markerboards with warranty against ghosting.
2. Provide lockable wall cabinet for erasers, markers and cleaning supplies.
3. Finish wall below markerboard with epoxy paint.

B. Visual Display Cabinets:

1. Wherever possible, visual display cabinets should be recessed in the wall rather than projecting. This will allow floor-scrubbing machines to pass by easily.

10 14 00 - SIGNAGE

A. General Information:

1. All building signs shall meet all campus standards and be approved by Facilities Management and Housing and Dining Services Facilities through the University Project Manager/Representative in writing prior to installation. All graphics shall be included within the construction contract unless otherwise specified by the University Project Manager/Representative. Graphic Standards are available through the University Project Manager/Representative and Housing Communications Office.
2. The Colorado State University name, the CSU logo, trademark typeface and other images are protected by federal trademark law. ALL vendors and contractors producing signs, banners and other items which have the CSU name, logo and image must be licensed with the Collegiate Licensing Company. This requirement applies to all products, regardless if destined for external commercial use or internal use by the University or its employees. For more information on licensing, navigate to: <http://graphicstandards.colostate.edu/index.asp?url=licensing>

B. Interior Signs:

1. Room numbers will be assigned by Facilities Management-Design and Construction through the University Project Manager/Representative. The A/E shall request numbering of rooms during the Design Development Phase.
2. Any room having an occupant load of 50 or more, as determined by the currently adopted International Building Code shall have the rated capacity of the room posted in a conspicuous place next to the main exit of the room. Sign design and location shall be coordinated with Facilities Management through the University Project Manager/Representative.
3. Signs should be made of black plastic with raised white letters. Other types of signs should be appropriately sized for the intended purpose. Room number signs shall be 2 inches x 4 inches long. Alpha and numeric characters shall be 7/8 inches high with a 60 percent height to width ratio. The center lines of the characters should be 1 inch from the top. Grade 2 braille characters shall be included and they should be centered 1 1/2 inches from the top.

Font shall be sans serif. CSU standard font is Swiss 721.

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Alpha and numeric characters shall be raised 1/32 inch. Braille characters shall be raised.

The signs shall be glued to the wall near the latch side of all doors leading to the room. Room numbers should be 60 inches from the center of the signs to the floor. The edge shall be 2 inches from the door frame.

C. Exterior Signs:

1. Exterior signs shall conform to University standards.

10 21 13 – TOILET COMPARTMENTS

- A. Floor mounted partitions systems with overhead bracing are required. Ceiling mounting is not permitted.
- B. Shall be solid phenolic partition panels with full depth material color.
- C. Wall mounts, fasteners, hinges, latches and hooks shall be stainless steel. Continuous wall mounts that extend above tile wainscot shall be shimmed full-width with solid white acrylic or nylon material. All mounting brackets shall be continuous the height of the panel or door for stall privacy.
- D. If floor stanchions are used, all trim, anchors, angles and fasteners shall be stainless steel. Ceiling mounted partitions are not allowed.

10 40 00 – SAFETY SPECIALTIES

A. Fire Extinguishers

1. Fire extinguishers conform to NFPA 1 Standard for Portable Fire Extinguishers and OSHA 29 CFR 1910 Subpart L.
2. Fire extinguishers shall be provided as a part of the construction contract after consultation with the University Representative unless noted otherwise.
2. Fire extinguisher cabinets shall not have break glass doors.
3. Full recess cabinets are preferred. Semi recess with max. 2" projection.

B. Automated Electronic Defibrillators (AED)

1. AED standards are established by CSU Environmental Health Services.
2. All buildings shall have AED units in number and location as determined by CSU Environmental Health Services during plan review. AED locations shall be shown on the architectural and fire alarm plans no later than the first Construction Document submittal.
 - a. At minimum, 1 AED shall be installed in the front entrance of every new building that is constructed or undergoes a major renovation. The location of the AED should be easily visible and accessible to all who enter the building.
 - b. AEDs should be placed in common areas within a close range to all building occupants.

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- c. The maximum travel distance to an AED is 325 feet. Travel distance is based on average walking speed for the time to and back from the AED to the sudden cardiac arrest patient and the time to turn on the AED, follow prompts and push the treatment button.
3. All costs for AED equipment, cabinet, installation, integration with fire alarm system, signage and testing shall be included in the project budget. Installation of cabinet, signage, fire alarm connection and programming shall be included in construction contract. Purchase of the AED unit and cabinet, installation of the AED by EHS and AED alarm programming by EHS shall be arranged by University Project Manager/Representative.
4. AED Standard Unit: University Project Manager/Representative shall order AED unit for shipment direct to CSU Environmental Health Services for installation by EHS. (OPOI)
 - a. LIFEPAK CR-Plus Semi Automatic AED (Item Code 80403-000148) [Sole Source 2010]
 - b. AED Authority
Division of Narva Enterprises
5353 Golf Course Drive
Morrison, CO 80465
(303) 478-3938,
ashton.narva@aedauthority.com
 - c. 2005 AHA Guidelines, Energy: 200-300-360 Joules. Includes: 2pr Quik-Pak electrodes with Redi-Pak preconnect system. Carrying Case, 1 CHARGE PAK, AMBU Kit, Compatible with Infant/Child reduced energy electrodes. 5 Year Warranty. [2010 approx. \$2,000]
5. AED Standard Cabinet: University Project Manager/Representative shall order AED cabinet for shipment direct to CSU Environmental Health Services for installation by the Contractor. (OPCI)
 - a. JL Industries LifeStart AED Cabinet [Sole Source 2010]
Surface Mount Wall Cabinet with Alarm: 1413F12 v1
Semi-Recessed Wall Cabinet with Alarm: 1417F12
Semi Recessed Wall Cabinet with Alarm Stainless Steel Finish: 1436F12
Semi Recessed Wall Cabinet with Alarm Stainless Steel Finish 3" trim: 1437F12
 - b. AED Authority
Division of Narva Enterprises
5353 Golf Course Drive
Morrison, CO 80465
(303) 478-3938,
ashton.narva@aedauthority.com
 - c. AED cabinet door pull shall be at accessible height 48" AFF maximum.
6. Fire Alarm Signal Line Circuit
 - a. AED cabinet shall be connected to the fire alarm system and programmed by the Contractor. EHS shall install, test and certify the AED unit for use.
 - b. AED locations shall be shown on the fire alarm shop drawings and in the PDF file submitted for graphics and programming the system at the time of startup of the fire system
 - c. Provide EMT conduit to top right of the AED cabinet. Install a **Notifier FMM-101 monitor**

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- module** in a 3x5 inch box located in the upper right corner of the cabinet. Wire a **George Risk Industries (GRI) Model # 4704-A pull-apart switch** to the monitor module in a closed circuit supervised by the end of line resistor. The pull apart should plug in on the lower left of the base that the AED unit sets on.
- d. Switch is available from Ademco at (800) 233-6261
 - e. Coordinate with the EHS Life Safety Systems Administrator for connections and programming. Spec equipment for interface as listed above. Project budget shall include EHS alarm setup charges.
7. AED locations shall be identified with two signs.
- a. Flat 8" x 11" Sign directly above cabinet: AED graphic symbol and text "For Medical Emergency Use Only. Removal of AED Will Notify Emergency Responders and University Police" See Drawing Appendix.
 - b. V-Shaped – 3 way Wall Sign above cabinet, 80" AFF. AED graphic symbol with text "AED Automated External Defibrillator". See Drawing Appendix.
 - i. Large (12"H x 15"W): Large atriums, vestibules, wide open corridors
 - ii. Small (10"H x 12"W): Small hallways, vestibules, corridors with limited space

10 28 00 – TOILET, BATH AND LAUNDRY ACCESSORIES

A. Product Supply and Installation:

- 1. Owner Provided, Contractor Installed:

- Toilet Paper Holder
 - Paper Towel Dispenser
 - Soap Dispenser
 - Feminine Napkin Disposal
 - Trash and recycling receptacles

B. Mirrors:

- 1. Slanted mirrors over sinks are not acceptable.
- 2. Full length mirrors shall be provided in all accessible restrooms. Locate mirrors carefully to maintain privacy.

10 50 00 - STORAGE SPECIALTIES

A. Sole Source Products:

- 1. Adjustable Wall-Standard Shelving – Metro Shelving: <http://www.metro.com/shelving>