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7-2019

### 101420 - A-Signage

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#### Recommended Citation

Weatherbee, Stephanie L., "101420 - A-Signage" (2019). *Division 10 – Specialties*. 2.  
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**SECTION 10 1420 – SIGNAGE**

## PART 1 - GENERAL

## 1.1 SUMMARY

- A. This Section includes the following:
  - 1. Interior signage - Panel signs, door tags.
  - 2. Exterior - Dimensional characters.
  - 3. Exterior – No Smoking signage
  - 4. Exterior - Street name signage.
  - 5. Exterior - Way-Finding signage.

## 1.2 INTERIOR SIGNAGE, GENERAL

- A. Signage and its location shall comply with all applicable codes and regulations, including the ADA Standards for Accessible Design and currently adopted IBC and National Fire Protection Association (NFPA) Life Safety Codes.
- B. Materials, colors, layout, and size shall be approved by UNH Campus Planning.
- C. UNH Sign Type Templates provide dimensions, profile, graphic layout and font style (see Attachment A for Templates with specifications and illustrations). (See Attachment C for Mounting instructions for signage and door tags)
- D. UNH Signage Schedule Template is based on the specific sign types indicated (see Attachment B for template). Final sign schedule shall be reviewed and approved by UNH Campus Planning and coordinated with the design team and builder as necessary.
- E. In locations where a small renovation requires a relatively small number of new signs, that signage shall conform to the existing sign system while maximizing regulatory compliance.
- F. Permanent room numbering shall be fully incorporated into the Construction Documents for use by the Contractor. Each permanent room number shall be unique and consistent with the University standard room numbering system as described in Chapter 3, University Planning Standards, Section D Floor, Room, and Door numbering

## 1.3 EXTERIOR SIGNAGE, GENERAL

- A. Building signage shall be installed on the building, freestanding signage is not allowed.
- B. Building signage text shall be only the name of the building and not the identifying programs, offices, or functions of the building.



- C. Building signage shall be placed as close as possible to a building's main entrance, preferably over the doorway, or at other major entry points, as required.
- D. Building signage shall be engraved into an integral component of the building façade or installed as individual aluminum lettering as described herein.
- E. Coordinate placement of anchorage devices with templates for installing signs.
- F. See Attachment D for No Smoking Signs
- G. See Attachment E for Core Campus Wood Post detail.
- H. See Attachment F for Street Signs (in progress, not published)
- I. See Attachment G for Wayfinding Signs. (in progress, not published)

#### 1.4 QUALITY ASSURANCE

- A. Regulatory Requirements: Comply with applicable provisions in ADA-ABA Accessibility Guidelines and ICC/ANSI A117.1. & Architectural Barrier-Free Design Code for the State of New Hampshire references ADAAG COORDINATION.

### PART 2 - PRODUCTS

#### 2.1 INTERIOR PANEL SIGNS

- A. Vendors - All signs in a particular style shall be provided by a single manufacturer.
  - 1. Brilliant Touch.
  - 2. Welch Architectural Signage.
  - 3. Portsmouth Sign Company.
  - 4. Others as approved by UNH
- B. Materials: Shall be constructed of acrylic or photopolymer using the following materials.
  - 1. Acrylic – May be used in moderate-abuse areas, such as academic buildings.
    - a. Acrylic substrate 1/8" thick.
    - b. Acrylic letters inlaid and chemically welded into clear acrylic face.
    - c. Tactile Braille room identification with optional subsurface copy or changeable message inserts
    - d. Changeable message insert requires a clear 1/16" acrylic with 1/32" spacer.
    - e. Frame – None (see Part 3 for installation)
  - 2. Photopolymer – Shall be required for use in high-abuse areas such as student residences, and may be used in secondary campus buildings.
    - a. Polymer Encapsulation of letters and Braille integral with substrate.
    - b. Panel shall be one-piece material 1/8" thick with no side seams from laminating two materials together
    - c. Photopolymer minimum 80 shore D hardness and be moisture resistant.



- d. Use acrylic polyurethane paints for background colors
  - e. Raised text/symbol color can be thermo-pressed or silk-screened and a satin clear polyurethane top coat added for optimal durability.
  - f. Tactile Braille room identification with optional changeable message inserts
  - g. Changeable message insert requires a clear 1/16" photopolymer with foam tape as dividers.
  - h. Frame in high abuse applications - Plaque shall be mounted in mechanically fastened aluminum frame with raised perimeter edges designed to shield plaque from removal.
- C. Tactile and Braille Sign: Manufacturer's standard process for producing text and symbols complying with ADA-ABA Accessibility Guidelines and with ICC/ANSI A117.1. Text shall be accompanied by Grade 2 Braille. Produce precisely formed characters with square-cut edges free from burrs and cut marks; Braille dots with domed or rounded shape.
- D. Changeable Message Insert sign option: Fabricate sign to allow insertion of changeable messages in the form of slide-in inserts. Furnish insert material cut-to-size for changeable message insert. Digital Sign Insert Template shall be provided by UNH Campus Planning on an as-needed basis, for customer's "self-service" insert production.
- E. Subsurface Copy sign option for acrylic signs: Apply minimum 4-mil- (0.10-mm-) thick vinyl copy to back face of clear acrylic sheet forming panel face to produce precisely formed opaque image. Image shall be free of rough edges.
- F. Applied Vinyl: Die-cut characters from vinyl film of nominal thickness of 3 mils (0.076 mm) with pressure-sensitive adhesive backing. Apply copy to exposed face of panel sign.

## 2.2 NO SMOKING SIGNS

- A. These shall be installed on the interior stile of each exterior public door leaf. They shall be made of clear adhesive vinyl with white or black lettering selected to contract with the door color. (See Attachment D).

## 2.3 EXTERIOR SIGN MATERIALS

- A. Aluminum Castings: ASTM B 26/B 26M, of alloy and temper recommended by sign manufacturer for casting process used and for use and finish indicated.
- B. Aluminum Sheet and Plate: ASTM B 209 (ASTM B 209M), alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated, and with at least the strength and durability properties of Alloy 5005-H32.
- C. Aluminum Extrusions: ASTM B 221 (ASTM B 221M), alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated, and with at least the strength and durability properties of Alloy 6063-T5.

- D. Applied Vinyl: Die-cut characters from vinyl film of nominal thickness of 3 mils (0.076 mm) with pressure-sensitive adhesive backing, suitable for exterior applications.

## 2.4 EXTERIOR BUILDING NAME LETTERING - DIMENSIONAL CHARACTERS

- A. Manufacturer: The Southwell Company.
- B. Type: Individual letter, Upper case only.
- C. Cast Characters: Produce characters with smooth flat faces, sharp corners, and precisely formed lines and profiles, free of pits, scale, sand holes, and other defects. Cast lugs into back of characters and tap to receive threaded mounting studs. Alloy and temper recommended by sign manufacturer for casting process used and for use and finish indicated. Comply with the following requirements.
  - 1. Character Material: Aluminum; satin polished face; matte sides with 2 coats clear acrylic lacquer.
  - 2. Style: Palatino P-779.
  - 3. Height: 6 inch typical; larger size when consistent with building scale.
  - 4. Mounting: Concealed studs for substrates encountered. P-8 projected (1/4" between back of letter and wall surface).
    - a. Stud mount (threaded studs and spacers for application to be provided by Installer).
  - 5. Template: Full-size template of entire sign copy proportionally spaced shall be provided with all signs. Template shall indicate the precise location of all studs. Letters shall be keyed to the template to ensure proper location and orientation of all letters.

## 2.5 EXTERIOR BUILDING NAME LETTERING - ACCESSORIES

- A. Anchors and Inserts: Provide nonferrous-metal or hot-dip galvanized anchors and inserts for exterior installations and elsewhere as required for corrosion resistance. Use toothed steel or lead expansion-bolt devices for drilled-in-place anchors. Furnish inserts, as required, to be set into concrete or masonry work.

## PART 3 – EXECUTION

### 3.1 INSTALLATION

- A. Interior Wall-Mounted Signs: Comply with sign manufacturer's written instructions except where more stringent requirements apply.
  - 1. Sign mounting locational instructions shall comply with applicable codes and regulations. (see Attachment C)

2. Frameless signs applied directly to substrate – may be used in typical moderate use locations such as academic buildings.
    - a. Two-Face Tape: 3M Very High Bond Isotec tape: provide a minimum coverage of 1" wide adhesive strip around the entire back perimeter and as required to ensure adhesion.
    - b. Mount signs to smooth, nonporous surfaces. Do not use this method for vinyl-covered or rough surfaces.
    - c. Silicone-Adhesive Mounting: Attach signs to irregular, porous, or vinyl-covered surfaces. 90 to 100% coverage and as required to ensure adhesion.
  3. Signs not applied directly to substrate – required in high-abuse locations such as student residences.
    - a. Aluminum mounting frame: Provide 1/8" aluminum frame with turned-up edges that the wall sign can fit flush within to make vandalism more difficult. The frame shall have predrilled and countersunk holes, at four locations. Attach frame with mechanical fasteners and anchors suitable for secure attachment to substrate. Attach panel signs to plate using adhesives.
- B. Signs Mounted on Glass: Provide matching opaque plate on opposite side of glass to conceal mounting materials.
- C. Bracket-Mounted Signs: Provide manufacturer's standard brackets, fittings, and hardware for mounting signs that project at right angles from vertical and horizontal surfaces. Attach brackets and fittings securely to those surfaces with concealed fasteners and anchoring devices to comply with manufacturer's written instructions.
- D. Dimensional Characters: Mount characters using standard fastening methods to comply with manufacturer's written instructions for character form, type of mounting, wall construction, and condition of exposure indicated. Provide heavy paper template to establish character spacing and to locate holes for fasteners.
- E. Flush Mounting: Mount characters with backs in contact with wall surface.
- F. Projected Mounting: Mount characters at projection distance from wall surface indicated.
- G. Installation Schedule - Interior Signs must be installed prior to the Certificate of Occupancy.

**ATTACHMENTS:**

- ATTACHMENT A – Interior Sign Type Templates
- ATTACHMENT B – Signage Schedule Template
- ATTACHMENT C - Mounting Diagrams - Interior Sign + Door Tag
- ATTACHMENT D – Exterior No Smoking Sign (Building)
- ATTACHMENT E – Exterior Core Campus Wood Post

END OF SECTION 10 1420