

SECTION 10410

DIRECTORIES

BUILDING DIRECTORIES

Non-Illuminated directories fabricated with a low-profile aluminum frame, hinged glass cover and interchangeable replacement strips.

Section 10410

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Interior non-illuminated building directories.

1.02 RELATED SECTIONS

A. Section(s) 10420-Dimensional Letters and Plaques, 10430-Exterior Signage and 10440-Interior Signage

1.03 SUBMITTALS

- A. Submit the following in accordance with Section 01300:
1. Product Data: Manufacturer's material description and fabrication methods.
 2. Shop Drawings: Submit manufacturer's shop drawings showing fabrication and mounting methods.
 3. Samples: Submit sample colors of frame finishes and changeable strip carriers as noted on attached drawings.

1.04 QUALITY ASSURANCE

- A. Manufacturer's Qualifications:
1. Companies with not less than 10 successive year's experience in the manufacturer of interior building signs.
 2. Company licensed to manufacture products by the EPA using the process specified.
 3. Furnish a list of at least 5 similar projects completed in the previous 2 years if requested by the owner's representative.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Deliver directories to the project site, packaged to prevent damage during delivery and storage. Store directories in dry area protected from the elements

PART 2 PRODUCTS

2.01 MANUFACTURERS

Acceptable Manufacturers: Subject to compliance with requirements of the contract documents, acceptable manufacturers are as follows:

1. Teems Inc. As provided by GSI Sign Systems 3110 Washington Avenue North, Suite 200, Minneapolis, MN. (800) 486-4605

2.02 BUILDING DIRECTORIES

- A. 30" x 48" x 1-1/2" Ultra non-illuminated directory case.
1. 1" x 15" Anodized aluminum carriers with .800 x 15" black over white engraved directory strips.
 2. Anodized aluminum J channel for carriers.
 3. 4-1/2" x 46" Matte clear acrylic reverse-sprayed black header with 2" white vinyl copy.
 4. Top-hinged door with 1/4" tempered glass and 3M Dual Lock Door grabs.

2.03 OTHER MATERIALS

- A. **Mechanical Fasteners:** Countersunk holes concealed and/or tamper-proof screws, washers, and toggles may be used in securing directories to substrate.

PART 3 INSTALLATION

3.01 EXAMINATION

- A. Examine the substrates and conditions under which the work is to be performed, and notify the Contractor in writing of conditions detrimental to the proper and timely completion of the work. Do not proceed with the installation until unsatisfactory conditions have been corrected.

3.02 INSTALLATION

- A. Mount directories level and plumb with manufacturer recommended fasteners to substrates at locations as noted on plans.
- B. Secure directories to substrates with fasteners sufficient to provide secure mounting when directory is in "door open" position.

3.03 CLEANING

- A. Remove fingerprints and dust from glass surfaces and directory strips with standard household cleaners. Clean frame surfaces as needed.

3.04 SCHEDULE

- A. Provide interior building directories as listed below and as detailed on attached drawing:

END OF SECTION

SECTION 10420

DIMENSIONAL LETTERS AND PLAQUES

METAL LETTERS AND CAST PLAQUES

Metal letters and cast plaques for interior and exterior uses where noted.

Section 10420

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Interior/exterior non-illuminated metal letters and plaques.

1.02 RELATED SECTIONS

A. Section(s) 10410-Directories, 10430-Exterior Signage and 10440-Interior Signage

1.03 SUBMITTALS

- A. Submit the following in accordance with Section 01300:
1. Product Data: Manufacturer's material description and fabrication methods.
 2. Shop Drawings: Submit manufacturer's shop drawings showing fabrication and mounting methods.
 3. Samples: Provide sample metal finishes if requested by the owner's representative.

1.04 QUALITY ASSURANCE

- A. Manufacturer's Qualifications:
1. Companies with not less than 10 successive years experience in the manufacturer of metal letters and plaques.
 2. Company licensed to manufacture products by the EPA using the process specified.
 3. Furnish a list of at least 5 similar projects completed in the previous 2 years if requested by the owner's representative.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver finished product to the project site, packaged to prevent damage during delivery and storage. Store letters and cast plaques in dry area protected from the elements.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. **Acceptable Manufacturers:** Subject to compliance with requirements of the contract documents, acceptable manufacturers are as follows:
1. Gemini Incorporated as provided by GSI Sign Systems 3110 Washington Avenue North, Suite 200, Minneapolis, MN. (800) 486-4605

2.02 METAL LETTERS AND CAST PLAQUES

- A. 10" Cast aluminum letters:
1. 1" thick Helvetica typestyle.
 2. Natural satin aluminum finishes.
 3. Threaded stud bosses for stud insertion for mounting.
- B. 36" x 24" Cast aluminum plaque:
1. Prime aluminum (Alloy # 5052).
 2. Stroke sanded face horizontal grain US #4 finish.
 3. Background coated as noted with clear acrylic polyurethane overcoat.

2.03 OTHER MATERIALS

- A. Mechanical Fasteners: Countersunk holes concealed and/or tamper-proof screws, washers, and toggles may be used in securing plaques to substrate.
- B. Letters to have cast in threaded stud bosses for blind mounting as noted on attached drawing.

PART 3 INSTALLATION

3.01 EXAMINATION

- A. Examine the substrates and conditions under which the work is to be performed, and notify the Contractor in writing of conditions detrimental to the proper and timely completion of the work. Do not proceed with the installation until unsatisfactory conditions have been corrected.

3.02 INSTALLATION

- A. Mount letters and cast plaques level and plumb with manufacturer's recommended fasteners to substrates as noted on plans.
- B. Secure letters and cast plaques to substrates with concealed fasteners.

3.03 CLEANING

- A. Remove fingerprints and dust from exposed surfaces with standard household cleaners. Clean sign surfaces as needed.

3.04 SCHEDULE

- A. Provide the following interior/exterior metal letters and/or cast plaques as listed below and/or on attached drawing:

END OF SECTION

SECTION 10430

EXTERIOR SIGNAGE

EXTERIOR SITE SIGNAGE

1. Post and panel wayfinding signage
2. Handicapped parking signage

Section 10430

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Exterior non-illuminated post and panel wayfinding traffic signage.
- B. Single post-mounted handicapped parking signage

1.02 RELATED SECTIONS

- A. Section(s) 10410-Directories, 10420-Dimensional Letters and Plaques and 10440-Interior Signage

1.03 PERFORMANCE REQUIREMENTS

- A. Painted sign finish shall comply with the following performance requirements:
 1. Weatherability: When tested in accordance with ASTM G 53, after 500 hours in a Wetherometer (equivalent to approximately 3 years exterior exposure):

1.04 SUBMITTALS

- A. Submit the following in accordance with Section 01300:
 1. Product Data: Manufacturer's material description and fabrication methods.
 2. Shop Drawings: Submit manufacturer's shop drawings showing fabrication and mounting methods.

1.05 QUALITY ASSURANCE

- A. Manufacturer's Qualifications:
 1. Companies with not less than 10 successive years experience in the manufacturer of exterior panel signs.
 2. Company licensed to manufacture products by the EPA using the process specified.
 3. Furnish a list of at least 5 signage projects completed in the previous 2 years if requested by the owner's representative.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Deliver signs to the project site, packaged to prevent damage during delivery and storage. Store signs in dry area protected from the elements.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. **Acceptable Manufacturers:** Subject to compliance with requirements of the contract documents, acceptable manufacturers are as follows:
 - 1. Charleston Industries as provided by GSI Sign Systems 3110 Washington Avenue North, Suite 200, Minneapolis, MN. (800) 486-4605
 - 2. Gopher Signs as provided by GSI Sign Systems 3110 Washington Avenue North, Suite 200, Minneapolis, MN. (800) 486-4605

2.02 POST AND PANEL EXTERIOR SIGNS

- A. Charleston series 325 double-faced directional signs as noted on drawings. Background and copy colors per manufacturer's standards. Copy list to be provided. Sign panels to be .125 aluminum with acrylic polyurethane finish. Sign posts and frames to be constructed from 6065T5 aluminum with acrylic polyurethane finish.
- B. Handicapped parking signs 18" x 12" in .063 aluminum with reflectorized copy in engineer grade reflective sheet. Posts to be perforated u-channel steel with deep green-baked enamel finish.

PART 3 INSTALLATION

3.01 EXAMINATION

- A. Examine the substrates and conditions under which the work is to be performed, and notify the Contractor in writing of conditions detrimental to the proper and timely completion of the work. Do not proceed with the installation until unsatisfactory conditions have been corrected.
 - 1. Verify that mounting locations for each sign exist which comply with ADA, Section 4.30.6.

3.02 INSTALLATION

- A. Mount signs level and plumb with recommended adhesive to substrates at locations and heights to comply with ADA, Section 4.30.6.
- B. Secure sign frames to substrates with concealed fasteners, and adhere insert to holder.
- C. Signs mounted on glass sidelights adjacent to handle side of door must have accompanying glass backer.

3.03 CLEANING

- A. Remove adhesives from exposed sign surfaces as recommended by adhesives manufacturer. Clean sign surfaces as needed.

3.04 SCHEDULE

- A. Provide the following exterior building signs as listed below and as indicated on attached drawing:

END OF SECTION

SECTION 10440

INTERIOR SIGNAGE

RLS ADA SIGNAGE

RLS sign systems—tactile and Raster Braille signage for the visually impaired designed to comply with the regulations set forth in the Americans with Disabilities Act (ADA).

Section 10440

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Interior tactile building signs including Braille.

1.02 RELATED SECTIONS

- A. Section(s) 10410-Directories, 10420-Dimensional Letters and Plaques and 10430-Exterior Signage

1.03 REFERENCEES

- A. Title III of the “Americans with Disabilities Act of 1990,” (ADA), Department of Justice.
- B. “American National Standard for Buildings and Facilities” CABO/ANSI A117.1-1992, Council of American Building Officials/American National Standards Institute.
- C. Environmental Protections Agency (EPA).
- D. Specification #800, national Library Service, national Library of Congress.
- E. American Society for Testing and Materials (ASTM).
 1. ASTM D 523-89 Standard Test Method for Specular Gloss
 2. ASTM D 2244-89 Standard Practice for Calculation of Color Differences from Instrumentally Measured Colored Coordinates.
 3. ASTM G 53-91 Standard Practice for Operating Light- and Water-Exposure Apparatus (Fluorescent UV-Condensation Type) for Exposure of Nonmetallic Materials.

1.04 PERFORMANCE REQUIREMENTS

- A. Painted sign finish shall comply with the following performance requirements:
 1. Durability: Sign finish shall show no effect after requested use of standard household cleaners.

1.05 SUBMITTALS

- A. Submit the following in accordance with Section 01300:
 1. Product Data: Manufacturer’s material description and fabrication methods.
 2. Shop Drawings: Submit manufacturer’s shop drawings showing fabrication and mounting methods.
 3. Samples: Submit manufacturer’s standard color samples.

1.06 QUALITY ASSURANCE

A. Manufacturer's Qualifications:

1. Companies with not less than 10 successive years experience in the manufacturer of interior building signs.
2. Company licensed to manufacture products by the EPA using the process specified.
3. Furnish a list of at least 5 signage projects completed in the previous 2 years if requested by the owner's representative.

1.07 DELIVERY, STORAGE, AND HANDLING

- ### **A.**
- Deliver signs to the project site, packaged to prevent damage during delivery and storage. Store signs in dry area protected from the elements

PART 2 PRODUCTS

2.01 MANUFACTURERS

- ### **A.**
- Acceptable Manufacturers: Subject to compliance with requirements of the contract documents, acceptable manufacturers are as follows:

1. GSI Sign Systems 3110 Washington Avenue North, Suite 200, Minneapolis, MN. (800) 486-4605

2.02 PLAQUE/INSERT SIGNS

- ### **A.**
- RLS 1-ply 2-piece construction modified acrylic sign system consisting of 1-ply 1/8 inch substrate, and 1/32 inch profile material to produce raised numbers and letters with corresponding engraved Grade II Raster Braille (complying with Specification #800), and pictograms on RLS sign, all complying with ADA and CABO/ANSI A117.1 requirements.

B. 1. Sign Types:

6" x 8" Room name and number signs

8" x 8" Restroom identification signs

2. Graphics:

- a. Tactile Characters: RLS System, computer-engineered, adhesive-backed, raised graphics, complying with ANSI A117.1-1998.
- b. Pictograms: All "symbols" must match as closely as possible the published "international" symbols. Other interpretations will not be deemed acceptable. All symbols must be approved prior to fabrication.
- c. Braille: Use drill and press-fit method for placing Braille dots on architectural signs; computer engineered, using special carbide engraving bit, press fit tool with pump, and UV stable acrylic Rasters.
- d. Design for Characters that that are both Tactile and Visual shall comply with ANSI A117.1-1998, Sections 703.2.1 through 703.2.8.
 - 1) Character Height: measured vertically from the baseline of the character, shall be 5/8 inch minimum and 2 inch maximum, based on the upper case "I".
 - 2) Character Depth: Raised 1/32 inch.
 - 3) Copy Style: Upper Case Helvetica

- 4) Braille: complying with ANSI A117.1 – 1998, Sections 703.5.1 through 703.5.4. Grade 2 (conforming to Specifications #800, national Library Service, Library of Congress), rounded or domed, .025 inch to .032 inch high, to allow smooth tactile sweep of the fingers.

3. Painted Sign Finish:

- a. Reverse ink applied to acrylic using screen-printed or sprayed methods, UV inhibited.

2.03 OTHER MATERIALS

- A. Adhesives: Pressure sensitive adhesive of high-grade industrial silicone adhesive as recommended by the adhesive manufacturer for the substrates shown.
- B. Prominent mechanical fasteners are not recommended due to potential injury of confusion to the visually impaired individual.
- C. Mechanical Fasteners: Countersunk holes concealed and/or tamper proof screws, washers, and toggles may be used in securing plaques to substrate.

PART 3 INSTALLATION

3.01 EXAMINATION

- A. Examine the substrates and conditions under which the work is to be performed, and notify the Contractor in writing of conditions detrimental to the proper and timely completion of the work. Do not proceed with the installation until unsatisfactory conditions have been corrected.

3.02 INSTALLATION

- A. Mount signs level and plumb with recommended adhesive to substrates at locations and heights to comply with ADA guidelines.
- B. Signs mounted on glass sidelights adjacent to handle side of door must have accompanying glass backer.

3.03 CLEANING

- A. Remove adhesives from exposed sign surfaces as recommended by adhesives manufacturer. Clean sign surfaces as needed.

3.04 SCHEDULE

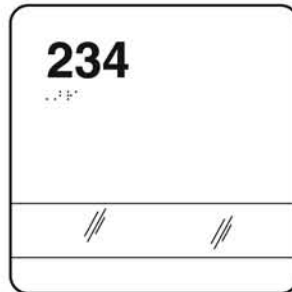
- A. Provide the following interior building signs as listed below and as indicated on attached drawing:

END OF SECTION

Typical Sign Types



Type A
ADA Room ID
8" x 8"



Type B
ADA Room ID with Insert
8" x 8"



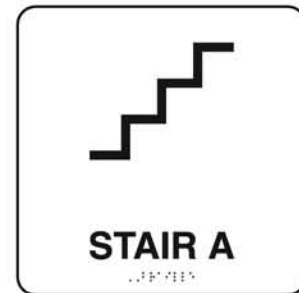
Type C
ADA Room Number
4" x 4"



Type D
ADA Room Name
4" x 8"



Type E
ADA Restroom ID
8" x 8"



Type F
ADA Stair ID
8" x 8"



Type G
In Case of Fire
6" x 6"



Type H
Directional
6" x 12"



Type J
Individual Name
2" x 8"

All Sign Types Available with 3 options:

- unframed plaques
- plaques with injection molded plastic frames
- plaques with aluminum angle frames

Uniform Building Code Standard No. 33-2 Stairway Identification

Specification Standard of the International Conference of Building Officials See Section 3306 (q), Uniform Building Code

Purpose

Sec. 33.201.

The purpose of this standard is to provide information to the occupants and fire department personnel to ensure that they do not become confused during emergencies, by requiring that standardized signs be installed in stairways to inform the user which stair landing he is on and the upper and lower termination of the stairway.

Scope

Sec. 33.202.

The provisions of this standard shall apply to buildings four or more stories in height.

Sign

Sec. 33.203.

Signs shall conform to the following:

1. The sign shall be a minimum 12 inches x 12 inches
2. The stairway location shall be placed at the top of the sign in 1 inch high block lettering with 1/4 inch stroke.
3. The stairway's upper terminus shall be placed under the stairway identification in 1 inch high block lettering with 1/4 inch stroke (roof access or no roof access).
4. The floor level number shall be placed in the middle of the sign in 5 inch high lettering with 3/4 inch stroke. The mezzanine levels shall have the letter "M" preceding the floor number. Basement levels shall have the letter "B" preceding the floor number.
5. The lower and upper terminus of the stairway shall be placed at the bottom of the sign in 1 inch high block lettering with 1/4 inch stroke.
6. These signs shall be maintained in an approved manner.

Current guidelines as of July 2004

Examples:

