

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this section.

1.2 SCOPE

- A. Furnish all material, labor and engineering services necessary to program facility and to fabricate and install signage.

1.3 REFERENCES

- A. Signs and their installation shall comply with applicable provisions of the latest edition of the following standards and with requirements of authorities having jurisdiction:
 - 1. ADAAG – Americans with Disabilities Act Accessibility Guidelines; US Architectural and Transportation Barriers Compliance Board.
 - 2. International Code Council/American National Standards Institute A117.1-Standard on Accessible and Usable Buildings Facilities.
 - 3. National Fire Protection Association 101 Life Safety Code.

1.4 SUBMITTALS

- A. Signage schedule in manufacturer's format for verification of text/copy.
- B. Approval drawings showing materials, construction detail, lay-out, copy, size and mounting methods.
- C. Sample of two sign types for verification of materials, color, pattern, overall quality, and for adherence to drawings and requirements indicated.

1.5 QUALIFICATIONS

- A. Manufacturer specializing in manufacturing the products specified in this section with minimum five years experience. Obtain signs from one source and a single manufacturer.

1.6 SUBSTITUTIONS

- A. Bidder must obtain prior approval from the Architect and/or Owner to bid alternates or substitutions to the specification.

1.7 WARRANTY

- A. Provide manufacturer's warranty against defects in materials or workmanship for minimum 5 years.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Signage shall be Fusion as manufactured by Takeform Architectural Graphics, One Mahar Way, Medina, NY 14103, 1.800.528.1398 or Architect approved equal.

2.2 SIGN STANDARDS

- A. It is the intent of these specifications to establish a sign standard for the Owner including but not limited to primary and secondary directories, wall mounted and overhead directionals, flag mounted directionals, primary room identification, restrooms, conference room, work station ID's and all code compliant signage. While the Owner may not obtain all signs and sign types, the signage contractor shall design and submit approval drawings for all.

B. Typography

1. Type style: see drawings. Copy shall be a true, clean, accurate reproduction of typeface(s) specified. Upper and lower case or all caps as indicated in Sign Type drawings and Signage Schedule. Letter spacing to be normal and interline spacing shall be set by manufacturer.
2. Arrows, symbols and logo art: To be provided in style, sizes, colors and spacing as shown in drawings.
3. Grade II Braille utilizing perfectly round, clear insertion beads.

C. Color and Finishes

1. Typography: see drawings.
2. Message Background: see drawings.
3. Finishes are to meet current Federal ADA and any State requirements.

2.3 SIGNS

A. Architectural Signage System

1. The signage shall incorporate a decorative laminate face with applied graphics including all tactile requirements in adherence to ADA specifications.
2. All signs, including work station and room ID's, overheads and flag mounts, directionals and directories shall have a matching appearance and constructed utilizing the same manufacturing process to assure a consistent look throughout.

B. Materials

1. Sign face shall be 0.035" (nominal) standard grade, high pressure surface laminate. A painted sign face shall not be acceptable.

2. The substrate shall be Green 209, a natural fiber wood product with SFI certification. The sign shall incorporate balanced construction with the core sandwiched between laminates to prevent warping. An acrylic substrate shall not be acceptable. Laminate on the sign face only shall not be acceptable.
3. Tactile lettering shall be precision machined, raised 1/32", matte PETG and subsurface colored for scratch resistance.
4. Signs shall incorporate a metal accent bar. Bars shall be anodized with a brushed satin finish. Painted bars shall not be acceptable.
5. Sign and backer edge shall be treated with a hot wax seal for moisture integrity.

C. Standard Colors

1. Face/background color shall be standard grade, high pressure laminate, all colors and finishes.
2. Standard tactile colors shall match manufacturer's ADA standard color selection.

D. Construction

1. The signage shall be capable of accepting paper or acetate inserts to allow changing and updating as required. Insert components shall have a 0.080" thickness non-glare acrylic window and shall be inlaid flush to sign face for a smooth, seamless appearance.
2. The signage shall, with the exception of directories and directionals, be a uniform 8½" width to facilitate inserts printed on standard width paper.
3. The signage contractor shall provide and install all signage inserts.
4. Manufacturer shall provide a template containing layout, font, color, artwork and trim lines to allow Owner to produce inserts on laser or ink jet printer. The template shall be in an Acrobat or Word format (.pdf).
5. The signage shall include modules allowing for inserts, notice holders, occupancy sliders, marker, magnetic, and cork pin boards. All modules shall be flush to sign face for a smooth, seamless appearance.
6. The laminates (front and back) shall be pressure laminated and precision machined together to a 90-degree angle. Edges shall be smooth, void of chips, burrs, sharp edges and marks.
7. The signage shall utilize an acrylic sphere for Grade II Braille inserted directly into a scratch resistant, high pressure laminate sign face. Braille dots are to be pressure fit in high tolerance drilled holes.
8. Braille dots shall be half hemispherical domed and protruding a minimum 0.025".
9. The signage shall utilize a water based adhesive. The adhesive shall be nonhazardous and shall allow for flexing and deflection of the adhered components due to changes in temperature and moisture without bond failure.
10. All signs shall be provided with appropriate mounting hardware. Hardware shall be finished and architectural in appearance and suitable for the mounting surface.

E. Quantities

Code and Facility Signage

Sign Type A	Qty _____	Directory
Sign Type B	Qty _____	Directional
Sign Type B.2	Qty _____	Small Directional
Sign Type C	Qty _____	Overhead
Sign Type D	Qty _____	Evacuation Map
Sign Type E	Qty _____	Stairs
Sign Type E.2	Qty _____	Restroom
Sign Type E.3	Qty _____	Misc. Room ID
Sign Type F	Qty _____	Small Room ID (5")
Sign Type G	Qty _____	Standard Room ID (8.5")
Sign Type G.2	Qty _____	Large Standard Room ID (8.5")
Sign Type H	Qty _____	Room ID w/2.75" Changeable Insert
Sign Type I	Qty _____	Room ID w/5" Changeable Insert
Sign Type J	Qty _____	Conference Room
Sign Type L	Qty _____	Workstation ID
Sign Type M	Qty _____	Flag Mount
Sign Type N	Qty _____	Interior Stairwell

PART 3 CERTIFICATIONS

3.1 THIRD PARTY COMPLIANCE

- A. Signage shall be SFI certified and comply with requirements of the Sustainable Forest Initiative (www.sfiprogram.org). Signage without SFI or equivalent green certification shall not be acceptable.

PART 4 EXECUTION

4.1 SITE VISITS

- A. Site visits – 3 site visits shall be required by the sign contractor.
1. Prior to submission of bid for site assessment and evaluation.
 2. Post award for the purposes of meeting with Owners and project manager.
 3. Final walk-through and punchlist.
- B. Programming – sign contractor shall perform all wayfinding & programming. Programming shall include location plan, message schedule, fire/evacuation maps and insert graphics. All programming materials shall be submitted for approval.

4.2 CODE COMPLIANCE

- A. It shall be the responsibility of the successful bidder to meet any and all local, state, and federal code requirements in fabricating and installing signs.

4.3 DELIVERY, STORAGE, PROTECTION

- A. Package to prevent damage or deterioration during shipment, handling, storage and installation. Products should remain in original packaging until removal is necessary. Store products in a dry, indoor location.

4.4 EXAMINATION

- A. Installer shall examine signs for defects, damage and compliance with specifications. Installation shall not proceed until unsatisfactory conditions are corrected.

4.5 INSTALLATION

- A. General: Installation locations shall be in accordance with ADA specifications. Locate signs where indicated using mounting methods in compliance with manufacturer's written instructions.
 - 1. The signage contractor will coordinate installation schedules with the Owner and/or Construction Manager.
 - 2. Installation shall be performed by manufacturer's personnel trained and certified in manufacturer's methods and procedures.
 - 3. Installer to submit CAD generated location plan noting the location of all signage and cross referenced to message schedule for architect's approval.
 - 4. Installer to conduct a pre-installation survey prior to manufacturing to verify message schedule copy and sign location. Each location shall be noted using low tack vinyl. Full scale renderings of directories and directionals shall also be provided. Any location discrepancy or message issues shall be submitted to architect for review.
 - 5. Signs shall be level, plumb, and at heights indicated with sign surfaces free from defects.
 - 6. Upon completion of the work, signage contractor shall remove unused or discarded materials, containers and debris from site.

4.6 STANDARDS MANUAL

- A. Manufacturer shall provide a comprehensive Standards Manual in both a paper and PDF format. The manual shall include all renderings, drawings, location plan, message schedule, insert templates, mounting detail, and reorder information.