# PART 1 - GENERAL

## 1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

## 1.2 DESCRIPTION

A. This Section describes the requirements for furnishing and installing the following signs located in building as follows:

B. SDSU EIS Complex Code Building Signs

C1 Office ADA Room Identity
C2 Conference Room ADA Identity
C3 Lab Room ADA Identity
C4 Back-of-House Room Identity (i.e. Storage, MEP)
C5 Restroom ADA & Title 24 Identity
C6 Maximum Occupancy Sign
C7 ADA Exit ID
C8 Emergency Egress @ Elevators
C9 Stairwell ADA Identity & Egress Map
C10 ADA Interior Stairwell Level Identity
C11 SDFD Interior Stairwell Identity / Roof Access Information

## 1.3 MANUFACTURER'S QUALIFICATIONS

A. Sign manufacturer shall provide evidence that they regularly and presently manufacture signs similar to those specified in this section as one of their principal products.

B. Should be able to provide one year warranty against manufacturer defects & flaws.

## 1.4 SUBMITTALS

A. Product Data: Manufacturer's construction details relative to materials, dimensions of individual components, sections, and samples for each type of sign required. Submit all specifications of all anodized materials.

B. Shop Drawings: Furnish shop drawings for fabrication and installation of signs. Include plans, elevations, and large-scale sections of typical members, methods of fastening and other components. Methods of fastening shall be detailed and exact specifications for all fasteners shall be indicated on the Shop Drawings.

C. For signs supported by or anchored to permanent construction, furnish setting drawings, templates, and directions for installation of anchor bolts and other anchors.

D. Structural calculations: Furnish engineering calculations, stamped and signed by a registered structural engineer licensed in the State of California.

## 1.5 SAMPLES

1. One full size sample of each room sign with specified material and finish
2. One sample of all hardware and fasteners.

1.6 REGULATORY REQUIREMENTS

A. Signage shall comply with the following requirements as applicable:

B. American with Disability Act & The State of California Accessibility Standards.

C. Meet requirements of applicable laws, codes, and regulations required by authorities having jurisdiction over the work.

D. Grade 2 Braille: Dots shall be 1/10 inch (2,54 mm) on centers in each cell with 2/10 inch (5.08 mm) space between cells, measured from the second column of dots in the first cell to the first column of dots in the second cell. Dots shall be raised a minimum of 1/40 inch (.635 mm) above the background. Recommended Rounded or domed California Braille dots, each distinct and separate. Dots with straight sides and flat tops are not readable for many Braille users.

E. Tactile (raised) letters shall be raised 1/32 inch (.794 mm) minimum and shall be sans serif upper case characters. Character height shall be a minimum of 5/8 inch (15.9 mm) and maximum of 2 inches (51 mm). Characters shall have 70% minimum contrast with background and a non-glare finish.

F. Character proportions shall have a width-to-height ratio of between 3:5 and 1:1 and a stroke width-to-height ratio of between 1:5 and 1:10. Fabricator to use characters as shown in design drawings.

PART 2 - PRODUCTS

2.1 SIGN MANUFACTURERS
1. RB Industries
2. AD-S
3. CNP Signs & Graphics
4. SignTech
5. or equal

2.2 MATERIALS

A. Adhesives: Silicone adhesive, used for installing signs shall be as manufactured by General Electric, Dow Corning or equal. Adhesive tape shall be industrial strength and manufactured by 3M or equal.

B. Aluminum: Suitable for ornamental, architectural work. Surface finish shall be smooth, free of extrusion marks or imperfections. Alloy wall thickness shall be selected to meet structural, fabrication and aesthetic requirements of the specific application.

C. Acrylic: Calsak Acrycast Cell Cast Acrylic Sheet or equal.

D. Fasteners: All fasteners shall be hidden from view unless otherwise specified in design bid drawings. Fasteners or hardware used for securing signs to concrete or other structural surfaces shall be engineered to meet code requirements and comply with the design intent of the drawings.

E. Hardware: Provide incidental hardware necessary for the proper functioning of the signs. Provide tamper-proof fastener where publicly accessible.

F. Metal Clips, Brackets, and Reinforcements: Concealed sheet metal clips, mounting studs, brackets and reinforcements shall be of gauge required to satisfy structural and requirements, and to insure a smooth and uniform finish.

G. Seams and Joints: Welded joints shall be ground, filled and finished flush and smooth with adjacent work. Such seams shall be invisible after final finish has been applied. Spot welded joints shall be invisible on exterior of sign after final finish has been applied. No gaps, waves or oil-canning will be permitted in the work.

H. Paint Finishes: All surfaces shall be properly prepared following the recommendations of the manufacturer. Final finish shall be guaranteed for 3 years against chipping, peeling, or fading.

I. All surfaces shall be properly prepared for paint and all paint shall be manufactured by Matthews Paint Company or equal.

2.3 FABRICATION REQUIREMENT

A. Signs shall be free from burrs, dents, raw edges and sharp corners.

B. Finish surfaces smooth unless otherwise indicated.

C. Surfaces intended to be flat shall be free from ridges, oil-canning, gaps or other physical deformities. Surfaces shall be fabricated to remain flat under installed conditions.

D. Surfaces intended to be curved shall be smoothly free-flowing to required shapes.

E. Cut rounded letterforms and/or graphics clean and true to match adjacent surface-applied letterforms and/or graphics.

F. Exercise care to protect polished and/or plated surfaces so they remain unblemished in the finished work.

G. Isolate dissimilar materials. Exercise care to isolate nonferrous metals from ferrous metals as required to prevent corrosion.

H. Visible sign surfaces of the same type shall have the same finish. Color and/or finish shall be consistent across the entire surface of a sign.

I. Reveals shall be uniform width. All butt joints shall be tight and closed along the entire length.

J. Gaps between milled components, when assembled, shall not exceed a tolerance of 0.005-inch.

2.4 SIGN SUMMARY

A. Provide shop drawings for interior signs as indicated on the Sign Document Drawings

PART 3 - EXECUTION

3.1 INSTALLATION

A. Fabrication and Installation Coordination:

B. Site Conditions: Examine the site conditions, structures, substrates and other conditions under which the signs are to be installed, and notify the Owner's Designated Representative of conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected in a manner acceptable to the installer.

C. Installation Conditions: Sign installation shall be carried out in a neat and proper manner, equal to the highest standards of quality in craftsmanship and in service as founded in the industry. Make all provisions necessary and take precautions to protect adjacent surface finishes and landscaping from damage.

D. Sign Location: A location plan is located on each sign type sheet to identify and locate all signs. Sign Type numbers are found on each sheet and are to identify locations of specific signs. Install sign items, including all components, per the schedule, at locations indicated. Exact sign locations and positions will be determined with an Owner Representative or Designer upon site inspection prior or during installation.

E. Sign Position: Sign installation shall follow the elevation drawings and position standards specified. Installed signs shall be properly aligned, level and true to line and dimension.

F. Mechanical Fasteners: Where stud fastenings or other mechanical fasteners are used, adequate mounting shall be provided, including the use of "tamperproof" screws where necessary, to prevent unauthorized removal of sign. Fastenings, structures and units shall be structurally sound and comply with applicable code requirements and restrictions.

G. Signs shall be flush to surface unless otherwise indicated, free of excess visible adhesive if used, with no damage to sign or surrounding surface, and without other imperfections.

3.2 CLEANING AND PROTECTION

A. Sign Clean-Up and Protection: At completion of installation, remove protective coatings and identifying stickers, paper or otherwise from sign face.

B. Sign surfaces shall be cleaned and polished. Clean sign materials using only cleaners and methods recommended by signage manufacturer. Provide Owner with cleaning instructions for continued maintenance of signs.

C. Protect all sign components from damage until acceptance is obtained in writing from the Owner's Designated Representative. Any damaged signs shall be repaired to the satisfaction of the Owner's Designated Representative or shall be replaced.

D. Site Clean-Up and Repair: Repair and repaint any buildings and/or adjacent surfaces that are damaged by sign installation. Damage to such surfaces shall be repaired to the satisfaction of the Owner's Designated Representative.

E. Remove daily all crating and debris from the Project and leave premises in a clean condition.

END OF SECTION