

UCONN HEALTH EXHIBIT B  
SIGNAGE STANDARD TYPE 1  
FARMINGTON, CONNECTICUT

SECTION 10 14 02

SIGNAGE AND GRAPHIC ELEMENTS –INTERIOR

PART 1 - GENERAL

1.1 SUMMARY

- A. Perform all work required to furnish and install the signs and graphic devices as indicated by the Contract Documents, and to furnish all supplementary items necessary for the complete and proper installation.
- B. The Section includes the following types of signs:
- C. Signage Standard Type 1:
  - 1. W1 Primary Directory - Wall Mount
  - 2. W4 Area Directory
  - 3. W5 Elevator Bank Directory
  - 4. W6 Overhead Suspended Directional
  - 5. W7 Wall Mount Directional
  - 6. W8 Freestanding Directional
  - 7. D1 Area Demarcation - Plaque
  - 8. D2 Elevator Bank Identity
  - 9. D3 Primary Destination Identity
  - 10. D4 Secondary Destination Identity
  - 11. D5 Tertiary Destination Identity
  - 12. D6 Restroom / Stair Identity
  - 13. D7 Patient Room Identity
  - 14. D8 Core Room Identity - Plaque
  - 15. D9 Door Tag Room Number Plaque
  - 16. D10 Flag Identity
  - 17. M1 Regulatory Plaque
  - 18. M2 Regulatory Plaque - Door Mount
  - 19. M3 Regulatory Vinyl
  - 20. M4 Operational Plaque
  - 21. M5 Stairwell Code
- D. Signage Standard Type 2 (Outpatient Pavilion and Musculoskeletal Institute only)
  - 1. 1A Floor Identification – 1” deep fabricated letters/numbers
  - 2. 7 Floor Mounted Building/Floor Directory
  - 3. 8A Overhead Directional – double sided / ceiling mounted
  - 4. 8B Overhead Department Sign – single sided / soffit mounted
  - 5. 9A Overhead Directional – double sided / ceiling mounted
  - 6. 9B Overhead Directional – single sided
  - 7. 10 Flag Mounted Sign

- 8. 10A Flag Mounted Sign
- 9. 12 Wall Mounted Directional – 17x11 paper insert
- 10. 12A Wall Mounted Directory – 17x11 paper insert
- 11. 12B Notice Holder – (4) 11x8 ½ paper inserts per unit
- 12. 13 Station Identifier – ¼” metal letters
- 13. 13A Ceiling Suspended INFORMATION Sign – curved metal
- 14. 15 Treatment Bay Sign – Ceiling Mounted
- 15. 16 Room/Office Identification – ADA Compliant
- 16. 16.1 Office Identification with paper insert – ADA Compliant
- 17. 17 Laboratory Identification w insert – ADA Compliant
- 18. 18.1 Core Room Sign – ADA Compliant
- 19. 18.3 Restroom Sign – ADA Compliant
- 20. 19 Informational Sign
- 21. 20 Stair Signs
- 22. 21 Fire Evacuation

E. Donor Signage

- 1. A Large Donor Letters
- 2. A1 Small Donor Letters
- 3. B Large “Specialty” Donor Info Plaque
- 4. B1 Large Room / Area Donor Info Plaque
- 5. B2 Small Room / Area Donor Info Plaque
- 6. C Comprehensive Donor Listing Plaque

1.2 System Description

A. Design Requirements:

- 1. Drawings are schematic and are intended to establish dimensions of units, sight lines, profiles and locations for the work.
- 2. Adjustments to the identifying devices may only be made within the limits of the established design intent of the drawings and specifications, and any and such adjustments shall be identified on the submittals.
- 3. Letter styles, finishes, materials to match existing standards and signage in situ.
- 4. Unless otherwise noted, text kerning is 0.

B. Structural Requirements:

- 1. Details on the drawings indicate the design intent for the sign structures but do not necessarily include fabricating details required for the complete structural integrity of the identifying devices.
- 2. The Manufacturer is responsible for the complete structural design of the identifying devices and to incorporate a minimum safety factor of three.
- 3. If structural engineering is required, engage a structural engineer that is registered in the state in which the project is located.
- 4. Design the structural aspects of the following identifying devices:
  - a. Wall-mounted signs that are supported by walls

- b. Ceiling mounted signs
  - c. Other identifying devices that, by nature of their size, location, or exposure to potential problems, require structural consideration.
5. Design Loads: Engineer for loads as required by local building and seismic codes.
- C. Dimensional Tolerances: Provide sign assemblies, including anchorages that accommodate tolerances of existing building frames and other adjacent construction.
- D. Control of Corrosion: Prevent galvanic action and other forms of corrosion by isolating metals and other materials from direct contact with incompatible materials.

1.3 SUBMITTALS

- A. General: Submit the following according to the Conditions of the Contract.
- B. The Contractor shall submit a typical project schedule to include, as a minimum, the following:
- |                               |       |      |
|-------------------------------|-------|------|
| 1. Shop Drawing Submittal     | _____ | Days |
| 2. Sample Submittals          | _____ | Days |
| 3. Begin Fabrication          | _____ | Days |
| 4. Begin Installation         | _____ | Days |
| 5. Completion of Installation | _____ | Days |
- C. Shop Drawings / Coordination Drawings are the manufacturer’s or contractor’s drawn version of information shown in the contract documents. The shop drawing is to show more detail than the construction documents and is drawn to explain the fabrication and/or installation of the individual sign elements.
- 1. Include plans, elevations and large-scale sections of typical members and other components.
  - 2. Include dimensions, internal construction, identification of products and materials indicated, compliance with specified standards, notation of coordination requirements, notation of dimensions established by field measurement & certifications that products are appropriate for installation indicated.
  - 3. Show anchors, grounds, layout, reinforcement, accessories and installation details.
  - 4. Architectural dimensions & conditions on-site as required to successfully determining element sizes and installation methods.
  - 5. Provide message list for each sign required, including large-scale details of wording and lettering layout.
  - 6. For signs supported by or anchored to permanent construction, provide setting drawings, templates, and directions for installation of anchor bolts and other anchors to be installed as a unit of Work in other Sections.
  - 7. Samples for verification of text layout, for each sign type required.
  - 8. Except for templates, patterns and similar full-size Drawings, submit Shop Drawings on sheets 11”x17”
  - 9. Submit two (2) sets of color shop drawings or electronic pdf version to designer.
- D. Samples include, but are not limited to complete units of repetitively used materials and swatches showing color, texture and pattern.

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1. Provide samples not less than 4"x4" of each metal specified.
  2. Acrylic: Provide samples not less than 4" x 4" for each material, color, texture and pattern specified.
  3. Vinyl Film: Provide samples not less than 4" x 4" for each type and color specified.
  4. Provide samples not less than 4" x 4" of Tactile Graphics.
  5. Paint: Provide samples each not less than 4" x 4" for each color and finish specified.
- E. Product Data: Collect product data into a single submittal for each element of construction or system. Mark each copy to show which choices and options are applicable to the project, including indication of specific sign types the product data applied to. Do not submit project data until compliance with requirements of the Contract Documents has been confirmed.
- F. Structural Engineering data calculations and stamped documents for record.
- G. Regulatory Requirements with authorized agency approval for record.
- H. Mockups are full-size assemblies for review of construction, coordination, testing, or operation; they are not Samples. Required only as noted or as required when Contractor does not suitably render details in shop drawing submittals.
- I. Submittal Procedures: Transmit each submittal to the Owner/Designer sufficiently in advance of scheduled performance of related construction activities to avoid delay.
1. Place a permanent label or title block on each submittal with the following information:
    - a. Project name
    - b. Date
    - c. Name and address of Contractor
    - d. Number and title of appropriate Specification Section
    - e. Drawing number and detail references, as appropriate
    - f. Similar definitive information as necessary
    - g. Approval marking and notes area.
    - h. Approval acceptance line.
- J. Designer's Actions: Except for submittals for the record, for information and similar purposes, the designer will review each submittal and mark to indicate the action taken and return.
1. Owner/Designer reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are forthcoming.
  2. Allow 1 week for the Owner's/Designer's review of each submittal. The Owner/Designer will not authorize an extension of time because of the Contractor's failure to transmit submittals to the designer sufficiently in advance of the Work to permit processing.
- 1.4 QUALITY ASSURANCE
- A. Sign Fabricator Qualifications:

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1. Firm experienced in producing signs similar to those indicated for this Project, with a record of successful in-service performance, and sufficient production capacity to produce sign units required without causing delay in the Work.
2. Supervision: A supervisor shall be on the job-site during times that specified work is in process, and who is experienced in installing signs similar to type and scope required for this project.
3. Subcontractor Qualifications: Engage a firm experienced in producing graphic devices similar to those indicated for this Project, with a record of successful in-service performance of not less than 5 years, and sufficient production capacity to produce sign units required without causing delay in the work.
4. Single Source Responsibility: For each separate material, pre-manufactured product, or sign type specified, obtain materials and products for that material or product, from one source of a single manufacturer.
5. Single Fabricator Responsibility: The Sign Fabricator shall use the same Sub-Contractor, fabricator, or manufacturer for the assembly and fabrication of each of the sign materials, products, services, and techniques/methods specified (i.e., use the same company for all cast acrylic work, the same company for all painting, the same company for all aluminum work, etc.)

### B. Design Standards:

1. Aluminum: Design and fabricate aluminum members according to applicable provisions of the American Architectural Manufacturers Association (AAMA), standards and specifications.

### C. Quality Standards:

1. Aluminum Welding Standards: Comply with American Welding Society (AWS), "Structural Welding Code" D1.2.
2. AA: Aluminum Association, 818 Connecticut Avenue, NW, Washington D.C. 20006
3. ASTM: American Society for Testing and Materials

### D. Regulatory Requirements:

1. Comply with all provisions of the Americans with Disabilities Act (ADAAG). Contractor is responsible for the accuracy of the interpretations and rendition of the raised lettering and Grade II Braille on sign faces to meet ANSI and ADA standards.
2. Comply with applicable local governing agencies laws, ordinances, and regulations for the use of exterior identifying devices.
3. Comply with all local building and seismic codes.

## 1.5 PROJECT CONDITIONS

- A. Site Inspection: The contractor shall visit the site of the proposed work and fully acquaint him/herself with existing conditions and should fully inform him/herself as to the facilities involved and the difficulties and restrictions attending the performance of the contract, prior to submitting his price quotation.

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- B. Field Measurements: Take field measurements prior to preparation of shop drawings and fabrication to ensure proper fitting. Show recorded measurements on final shop drawings. Coordinate fabrication schedule with construction progress to avoid delay.
- C. Final exterior and interior construction will be in progress for the entire duration of the work required by this Project. There will be a significant number of people in and around all of the buildings.
- D. There will be no defined limits of construction for this Project, all work will be exposed to and will be in close proximity of other building trades, staff, movers, and to vehicles on the streets and roads.
- E. Streets, roads, access to any building, and corridors within any building shall not be closed or otherwise restricted without the expressed written permission of the Owner.
- F. Due to construction in progress at the site and interior of all buildings, the Contractor of this job shall cooperate and coordinate this work with the General Contractor and the Owner.
- G. Sign Fabricator to coordinate all sign concrete foundation installations with General Contractor to insure completion of foundations prior to completion of landscaping. Protect all completed concrete foundation work while during landscaping installation, until the date of Acceptance of completed sign units.

### 1.6 WARRANTY

- A. Length and Requirements of Warranties and Guarantees:
  - 1. Except as otherwise specified, the Manufacturer warrants and guarantees all signs/graphics elements of the Contract Work against defects and deficiencies in materials, equipment or workmanship for two (2) years from the date of the Acceptance of the product unless the manufacturer's warranty is longer
  - 2. Upon receipt of written notice from the Owner of the discovery of any defects or deficiencies, the Manufacturer shall remedy the defects and deficiencies and replace any property damaged there from occurring within the warranty and guarantee period.
  - 3. In case of Contract Work performed by manufacturers and/or suppliers and where guarantees are required by the Owner, the Manufacturer shall secure warranties from said firms addressed to and in favor of Owner; deliver copies of same to the Owner, through the Designer, upon completion of the Contract Work; guarantee and assume full responsibility for the full period of said warranties.
  - 4. Delivery of said guarantees shall not relieve the Manufacturer from any obligation from assumed under any other provisions of this Contract.
- B. What the Warrantee-Guarantee Represents:
  - 1. The Manufacturer warrants to the Owner that signs and graphics elements products furnished under this contract will be of good quality and new, unless otherwise required or permitted by the Contract Documents, that the Contract Work will be free from defect, deficiencies or damage not inherent in the quality required or permitted, and that the Contract Work will conform with the requirements of the Contract Documents.

2. Contract Work not conforming to these requirements may be considered unacceptable.
3. The Manufacture warranty excludes remedy or damage or defect caused by abuse, modifications not executed by the Manufacturer, improper operation, or normal wear and tear under normal usage.

C. Warranty-Guarantee Form:

1. The Manufacturer shall submit to the Owner, a notarized warranty-guarantee for the Contract Work and special warranty-guarantees required by the specifications on the Manufacturer's letterhead.
2. Submittal of all warranty-guarantees is required as prerequisite to the Final Payment.

PART 2 - PRODUCTS

2.1 PRODUCT STANDARDS

- A. The Contract Documents are based on the products listed below to establish a standard of quality. Other available manufacturers with products having equivalent characteristics may be considered provided deviations are minor and do not change the intended aesthetic, functional and performance requirements as judged by the Owner/Designer.

2.2 MATERIALS

A. Stainless Steel / Aluminum - General:

1. Provide metal free from pitting, seam marks, roller marks, stains, discolorations, and other imperfections where exposed to view on finished units.

B. Stainless Steel / Aluminum - Shapes, and Bars:

1. ASTM A 36.
2. Finish as indicated in finish schedule.
3. Type S, Grade A, standard weight (schedule 40), unless otherwise indicated, or another weight required by structural loads.

C. Steel Aluminum Welding Electrodes and Filler Metal:

1. Provide type and alloy of filler metal and electrodes as recommended by producer of metal to be welded and as required for color match, strength, and compatibility in fabricated items.

D. Aluminum Sheet:

1. Alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated and with not less than the strength and durability and with not less than the strength and durability properties of the alloy and temper specified for ASTM 209, 6061-T6.

E. Aluminum Plate:

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1. Alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated and not less than the strength and durability and properties of the alloy and temper specified for ASTM B209.
- F. Aluminum Extrusions and Tubes: Vs ASTM-B209, Alloy 6061-T6
1. Aluminum extrusions of alloy and Temper recommended by the sign manufacturer for the type of use and finish indicated with not less than the strength and durability properties specified in ASTM B221 for 6063-T5. Vs ASTM-B221, Alloy 6061-T6
- G. Aluminum Dimensional Letters
1. Aluminum plate for all signs shall conform to ASTM-B209, Alloy 6061-T6 to thickness indicated on drawings
  2. Aluminum extrusions for all signs shall conform to ASTM-B221 Allow 6061-T6 to dimensions and thickness indicated on drawings.
  3. Aluminum shall be of best commercial quality and their various forms shall be straight and true. There shall be no scratches, scars, creases or buckles.
  4. Cut aluminum letters shall be water jet cut from sheets of ½” thickness, to size as indicated on the drawings. Letters shall be cut with sharp corners, flat faces, and accurate profiles. Sand sides to smooth finish. Brush finish to match existing.
  5. Fabricate aluminum letterforms shall be of solid aluminum sheeting. Letterforms shall be rigid, self-supporting and structurally sound. Use brackets and supports as required. All exposed welds shall be filed smooth with all tool marks removed by fine abrasive grain air blasting or other approved method.
- H. Tactile and Braille Plaques (Signage Standard Type 2)
1. Indoor/ Dry Conditions (Thermoform compressed tactile plaques)
  2. Manufacturer’s standard monolithic thermally formed and bonded tactile plaque constructed utilizing a high-pressure thermoforming process, which provides a fully homogenous plaque sign. The sign body, face, raised text and Braille are compression molded to form a single dimensional component creating a sign surface, body and graphic elements which exhibit toughness to scratching, cracking, gouging and graffiti. Molded surface is available in manufacturer’s three surface textures.
  3. Style: Custom Tuffcryl Sign by Alchemy Dimensional Graphics, LLC
  4. Material: First surface polymer coated clear acrylic
  5. Sign Thickness: ¼ inch (6mm)
  6. Tactile Characters/Symbols: Raised at least .45” from sign plate face
  7. Construction: One-piece; added on or engraved characters not acceptable
  8. Lettering Style: Typeface and letter size per current ADA guidelines
  9. Braille: Grade 2 ADA compliant Braille positioned per ADA guidelines
  10. Contrast: Letters, numbers, and symbols shall contrast with background per ADA guidelines
  11. Bevel Options: Classic
  12. Background Color: Match existing signage in facility. (Matthews Paint Metallic Champagne, MP20060 with black text.)
  13. Surface Texture: Smooth

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14. Acceptable Manufacturer: Alchemy Dimensional Graphics, LLC; 507B Cornerstone Court, Hillsborough, NC, 27278. TEL: (919) 241-4368 FAX: (919) 241-4730 Email: Sales@alchemy-dg.com Website: www.alchemy-dg.com

### I. Cast Acrylic Sheet:

1. Provide cast (not extruded or continuous cast) methyl methacrylate monomer plastic sheet, in sizes and thickness indicated, with a minimum flexural strength of 16,000 psi when tested according to ASTM D790, with a minimum allowable continuous service temperature of 176 degrees F (80 degrees C) and of the following general types:
2. Transparent Sheet: Where sheet material is indicated as "clear", provide colorless sheet in finish indicated, with light transmittance of 92 percent, when tested according to the requirements of ASTM D1003.
3. Opaque Sheet: Where sheet material is indicated as "opaque", provide colored opaque acrylic sheet in colors and finishes as selected from the manufacturer's standards.

### J. Sustainability

1. Use acrylic products with recyclable content to the greatest extent possible.
2. Use acrylic products free of plasticizers, formaldehyde, and bisphenol A, with colorants free of heavy metals.
3. Evonik Cyro LLC or approved equal.

### K. Polycarbonate Sheeting:

1. Provide cast (not extruded or continuous cast) polycarbonate sheet, in sizes and thickness indicated of the following general types:
2. Transparent Sheet: Where sheet material is indicated as "clear", provide colorless sheet in finish indicated, with light transmittance of 92 percent, when tested according to the requirements of ASTM D1003.
3. Opaque Sheet: Where sheet material is indicated as "opaque", provide colored opaque sheet in colors and finishes as selected from the manufacturer's standards.
4. Autofina Chemicals brand or their equal.

### L. Sintra:

1. Lightweight rigid board of expanded closed-cell polyvinyl chloride (PVC) extruded in a homogenous sheet with low gloss matte finish.

### M. Phenolic Plaques:

1. Provide single sheet phenolic layer with light sensitive, water-based face to produce raised graphics, Type D Shore durometer hardness of 80, exterior grade.

### N. Photopolymer:

1. Exterior Grade:
2. Provide water etched and baked material to achieve finished material surface to meet ADA requirements for raised copy and Braille, JET-388-EX Exterior Grade Photopolymer or equal.

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3. Use substrate recommended by photopolymer manufacturer.
4. Use full surface mounting method recommended by photopolymer manufacturer.
5. Interior Grade:
6. Provide single sheet phenolic layer with light sensitive, water-based face to meet ADA requirements for raised copy and Braille, Type D Shore durometer hardness of 80.
7. Use full surface mounting method recommended by the photopolymer manufacturer.

### O. Vinyl Letter and Symbol Film:

1. Transparent and non-reflective vinyl film, 2 mil minimum thickness, with pressure sensitive adhesive backing, suitable for exterior applications, colors as indicated.
  - a. 3M series 3630 Translucent
  - b. 3M series 7725 Opaque
  - c. 3M series 680 Reflective

### P. Digital Graphics:

1. 3M Controltac Plus Conformable Graphic Film 8620ES
2. 3M 8700 toners
3. All digital graphics must be on the 3M product(s) specified by a 3M certified representative following 3M electrostatic transfer, over-laminate and application recommendations to preserve warranty.
4. Print on 3M Scotchprint 2000 digital printer, minimum 400 x 400 dpi resolution, true CMYK.
5. Files to contain a minimum of 100 pixels per square inch minimum.
6. Store all prints in a temperature, dust and humidity controlled room.

### Q. Tempered Glass Interior Donor Signs

1. Tempered Glass shall be ¼" thick tempered clear glass with four 3/8" diameter holes, manufacturer bevel and polished edges. All exposed edges polished and chip free. Glass to comply with ASTM C1048 Type I, Class I (clear).
2. Graphics shall be second surface printed to match Cool Grey 6U, and where specified, photo in color. Logo/Seal is printed to match UConn Blue, PMS 289C. Sample of color must be submitted for approval.
3. Vinyl shall be 3M Etch Look or dusted crystal vinyl to be applied behind printed graphics. Vinyl to be smooth, with no visible seams, bubbling or water marks. Sample of product must be submitted for approval. Color to match existing, as approved by Owner.
4. Stand-Offs: The glass shall be set off the wall on ½" anodized aluminum standoffs with 1" diameter caps for large plaques and 5/8" diameter caps for small plaques. Standoffs by SignStandoffs.com, Displays2go.com, or approved equal.

## 2.3 PRE-MANUFACTURED UNITS

- A. Fasteners: Concealed fasteners fabricated from metals that are non-corrosive and are compatible with the sign material and mounting surface.

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- B. Anchors and Inserts: Nonferrous metal or hot-dipped 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.
- C. Tape: Double coated, 1/32 inch thick, very high bond, foam tape.
- D. Adhesive: Liquid silicone-adhesive recommended by the applicable sign material manufacturer.
- E. Sheet Adhesive for Cast Acrylic Sheets: Double sided, very high bond, sheet adhesive manufactured for the laminating of cast acrylic sheets.

### 2.4 FABRICATION

- A. General:
  - 1. Comply with requirements indicated for materials, thickness, finishes, colors, designs, shapes, sizes, and details.
  - 2. Produce smooth, even, level sign surfaces, constructed to remain flat under installed conditions within a tolerance of plus or minus 1/16 inch measured diagonally.
  - 3. Fabricated work shall be free of burrs, pitting, cutting edges, sharp corners, nicks, dents, and scratches. Painted surfaces shall be properly prepared, and shall be free of brush marks, streaks, laps, runs, or pile-up of paint, with uniform opaque coverage. Unless otherwise indicated, edges of signs shall be painted the same color as the face.
  - 4. Finish seams and joints on exposed surfaces shall be imperceptible in finished work.
  - 5. Except as indicated, finish surfaces smooth.
  - 6. Furnish flat surfaces without bulges, oil canning, or other physical deformities.
  - 7. Furnish curved surfaces with smooth, free-flowing shape.
  - 8. Carefully follow manufacturer's recommended fabricating procedures regarding expansion, contraction, fastening, and restraining of acrylic plastic.
  - 9. Exercise care to ensure that polished surfaces are unblemished in finished work.
  - 10. All Contractor painting shall be performed in a controlled and dust free environment.
  - 11. Graphics/Finishes where a light tone is applied to the top of a darker color shall be completely opaque. Double tipping/screening may be required. Bleed through is not acceptable.
- B. Graphic Content and Style: Provide sign copy that complies with the requirements indicated for size, style, spacing, content, position, material, finishes, and colors of letters, numbers, and other graphic elements.
- C. Comply with the Department of Justice 2010 ADA Standards for Accessible Design for inclusion, correctness, and rendition of Grade II Braille on all signs as indicated.
- D. Unframed Signs: Fabricate signs with mechanically and smoothly square cut edges and square cut corners.
- E. Laminated Signs: Permanently laminate face panels to backing sheets of material and thickness indicated using the manufacturer's standard process.

- F. Cut Letters/Stencil Cut Letters: Machine-engraved letters from acrylic or metal as indicated to produce cutters mechanically linked to master templates in a pantographic system or equivalent process capable of producing characters of the style indicated with sharply formed edges.
- G. Surface Copy: Apply copy and graphics to the first surface of acrylic sheet coated with opaque paints forming the panel face by the surface silk screen process to produce precisely formed opaque images free of rough edges
- H. Applied Vinyl Copy: Die-cut characters from vinyl film with pressure-sensitive adhesive backing, color and sizes as indicated, and applied to the exposed face of the opaque acrylic sheet or the clear acrylic sheet with opaque color coating subsurface to form the sign face.

2.5 FINISHES BY MANUFACTURER

A. Painting:

- 1. The term "paint" includes enamels, paints, sealers, fillers, stains, and coating systems whether used as prime, intermediate or finish coats.
- 2. Use colored paints and coatings, including inks, for copy and background colors, that are recommended by product manufacturer's for optimum adherence to surface and are non-fading for the application intended.
- 3. Aluminum: All exposed aluminum surfaces specified as non-metallic paint finish, to have a Matthews brand, exterior grade Acrylic Urethane Ultra Low VOC (MAP-LV) paint finish.
- 4. Acrylic urethane shall have a minimum two-week cure time.
- 5. Formulate paint products with anti-mildew agents especially formulated for the project location for both interior and exterior areas. In addition, include carefully balanced ultraviolet inhibitors for exterior products.

B. Screen Printing:

- 1. Screen Printing ink shall be a manufacturer's standard product suited for silkscreen technology and shall be available in a published system with full range of accent or pure spectrum colors, and any mixture of colors. Use inks that were manufactured within the last six months and are free from skins, lumps, and any foreign matter. Oils, thinners, and driers shall comply with the ink manufacturer's recommendations.
- 2. Screen material shall be either:
  - a. Stainless steel, nylon, or polyester with 250 lines per inch, or finer.
  - b. 16XX cloth fabric for printing
- 3. Execute silk screening from photo screens or negatives. Do not use images shown on the drawings as camera-ready artwork.
- 4. Execute silk screen-printing in a manner to ensure edges and corners of finished letterforms or symbols are sharp, true and clean. Letterforms or symbols with rounded positive or negative corners, edge build-up, or bleedings, etc. will not be accepted.
- 5. Image finished to match specified & approved colors, bleed through of colors is not acceptable.

PART 3 - EXECUTION

3.1 STORAGE

- A. Long term storage on the job site of finish product will not be allowed.

3.2 EXAMINATION

- A. The Manufacturer shall inspect substrate surfaces to receive identifying devices and associated work and conditions under which the identifying devices will be installed to determine if there are conditions that will adversely affect the execution of the work, and permanence and quality of work. Do not proceed with installation until unsatisfactory conditions have been corrected in a manner acceptable to the Manufacturer.
- B. Owner and Designer reserve the right to examine work in fabrication shop prior to shipment to the Project Site.

3.3 INSTALLATION

- A. Contractor shall locate sign units and accessories where indicated, using mounting methods of the type described and in compliance with the manufacturer's instructions. Install signs level, plumb, square, free from warp or twist, maintaining dimensional tolerances, and at the height indicated, with sign surfaces free from distortion or other defects in appearance. All workmanship and finishes shall be of best quality in every particular, strictly in accordance with best practice. All work shall be complete in every detail. Finish work shall be subject to approval by the Owner/Designer.
- B. Members shall be shop-fabricated, and where practical, all work shall be delivered to the site completely assembled. All joints of such fabricated work shall be completely smooth without apparent marks showing throughout the finish. All work "broken down" shall be erected so that all parts fit accurately with hairline joints.
- C. Unless otherwise shown on the Drawings, all members shall be continuous lengths without seams. Work shall be formed to profiles indicated on the Drawings.
- D. Where material lengths require joints, all joints shall be flush. Similar materials at joints shall be either bonded or welded together, or shall be lap jointed to provide for expansion.
- E. Protect adjacent or adjoining surfaces and work from damage during installation in this section
- F. Work shall be designed and anchored so that work will neither be distorted nor the fasteners overstressed for expansion and contraction of metal or other materials.

3.4 CLEANING AND PROTECTION

- A. After installation, clean soiled sign surfaces according to the manufacturer's instructions. Protect units from damage until Acceptance.
- B. Remove waste materials, rubbish and debris from the site and legally dispose of at public or private dumping areas off the Owner's property.

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- C. Names, Stamps and decals of manufacturers, installers or maintainers of signs shall not be visible in the finish work.
- D. At completion, all work shall be checked over, re-adjusted, and left in first class condition. Signs shall be cleaned with non-abrasive cleaning agents without damage to sign surface.
- E. Manufacturers shall provide Owner with information on cleaning and maintenance recommendations for all signs.

### 3.5 SELECTIVE DEMOLITION

- A. General: Demolish and remove existing signage and graphic elements only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:
  - 1. Proceed with selective demolition systematically.
  - 2. Neatly remove signage elements to minimize and limit any wall damage. Use cutting methods least likely to damage construction to remain or adjoining construction.
  - 3. Remove debris and materials and clean area to match surrounding conditions.
  - 4. Dispose of demolished items and materials promptly.
- B. Existing Facilities: Comply with building manager's requirements for using and protecting elevators, stairs, walkways, loading docks, building entries, and other building facilities during selective demolition operations.
- C. Removed and Reinstalled Items: Comply with the following:
  - 1. Clean and repair items to functional condition adequate for intended reuse.
  - 2. Pack or crate items after cleaning and repairing. Identify contents of containers.
  - 3. Protect items from damage during transport and storage.
  - 4. Reinstall items in locations indicated. Comply with installation requirements for new signage and graphic elements. Provide any miscellaneous materials necessary to make item functional for use indicated.

### 3.6 PATCHING AND REPAIRS

- A. General: Promptly repair damage to adjacent surfaces caused by selective demolition operations.
- B. Repairs: Where repairs to existing surfaces are required, patch to produce surfaces suitable for new materials.

### 3.7 DISPOSAL OF DEMOLISHED MATERIALS

- A. General: Promptly dispose of demolished materials. Do not allow demolished materials to accumulate on-site.
- B. Disposal: Transport demolished materials off Owner's property and legally dispose of them.

END OF SECTION