

7. Mounting: As indicated in the drawings.
8. Typeface: Futura Md BT Medium, unless indicated otherwise.
B. Fabricated Channel Characters: Translucent acrylic face with metal side returns, formed free from warp and distortion, with uniform faces, sharp corners, and precisely formed lines and profiles; internally braced for stability and for securing fasteners; and as follows:
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
2. Basis of Design Product: Subject to compliance with requirements, provide Channel letters by Dimensional Innovations or comparable product by one of the following:
a. TBD by Architect/Owner

3. Illuminated Characters: Frontlighted character construction with LED lighting including transformers, insulators, and other accessories for operability, with provision for servicing and concealing connections to building electrical system. Use tight or sealed joint construction to prevent unintentional light leakage. Space lamps apart from each other and away from character surfaces as needed to illuminate evenly.
a. Power: As indicated on electrical Drawings.
b. Weeps: Provide weep holes to drain water at lowest part of exterior characters. Equip weeps with permanent baffles to block light leakage without inhibiting drainage.
c. UL Listing required on all illuminated signage.
d. Use Tetra Minimax LEDs, no substitutions.
e. White LED temperature shall not exceed 3000K.

4. Character Material: Sheet or plate aluminum.
Three options in "Material Thickness" Subparagraph below can be used for aluminum; fourth option can be used for brass, bronze, and copper; fifth option can be used for three-sided steel characters; and sixth option can be used for three-sided, stainless-steel characters. Consult manufacturer for thickness suitable for material and strength required.
5. Material Thickness: 0.050 inch (1.27 mm) thick for face and 0.031 inch (0.79 mm) thick for returns.
6. Translucent Face Sheet: Acrylic sheet, 0.25 inch (6.35 mm) thick
7. Character Height: As indicated in the drawings.
8. Character Depth: As indicated in the drawings.
9. Finishes:
a. Integral Metal Finish: Not used.
b. Integral Aluminum Finish: Clear anodized.
c. Integral Stainless-Steel Finish: Not used.
d. Baked Enamel or Powder-Coat Finish: Manufacturer's standard. In color as indicated.
e. Overcoat: Manufacturer's standard baked on clear coating.

10. Mounting: As indicated.
a. Hold characters at 3/8" from wall surface if noted as pin-mounted.
11. Typeface: Futura Md BT Medium, unless otherwise indicated.

2.4 DIMENSIONAL CHARACTER MATERIALS
A. Aluminum Castings: ASTM B 209 20M, alloy and temper recommended by sign manufacturer for casting process used and for type of use and finish indicated.
B. Aluminum Sheet and Plate: ASTM B 209, alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated.
C. Aluminum Extrusions: ASTM B 221, alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated.
D. Brass Castings: Not Used.
E. Brass Sheet (Yellow Brass): Not Used.
F. Bronze Castings: Not Used.
G. Bronze Plate: Not Used.
H. Copper Sheet: Not Used.
I. Stainless Steel Sheet: Not Used.
J. Zinc Castings: Not Used.
K. Zinc Sheet: Not Used.
L. Acrylic Sheet: ASTM D 4802, category as standard with manufacturer for each sign, Type UVF (UV filtering).
M. Paints and Coatings for Sheet Materials: Inks, dyes, and paints that are recommended by manufacturer for optimum adherence to surface and are UV and water resistant for colors and exposure indicated.

2.5 ACCESSORIES

A. Fasteners and Anchors: Manufacturer's standard as required for secure anchorage of signage, noncorrosive and compatible with each material joined, and complying with the following:
1. Use concealed fasteners and anchors unless indicated to be exposed.
2. For exterior exposure, furnish nonferrous metal devices unless otherwise indicated.
3. Exposed Metal Fastener Components: General:
a. Fabricated from same basic metal and finish of fastener metal unless otherwise indicated.
b. Fastener Heads: For nonstructural connections, use oval countersunk screws and bolts with tamper-resistant slots unless otherwise indicated.
4. Sign Mounting Fasteners:
a. Concealed Studs: Concealed (blind), threaded studs welded or brazed to back of sign material, screwed into tapped lugs cast integrally into back of cast sign material, unless otherwise indicated.
b. Projecting Studs: Threaded studs with sleeve spacer, welded or brazed to back of sign material, screwed into back of sign assembly, or screwed into tapped lugs cast integrally into back of cast sign material, unless otherwise indicated.
c. Through Fasteners: Exposed metal fasteners matching sign finish, with type of head indicated, installed in predrilled holes.
B. Adhesives: As recommended by sign manufacturer and with a VOC content of 70 g/L or less for adhesives used inside the weatherproofing system and applied on-site when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
C. Adhesives: As recommended by sign manufacturer and that comply with the testing and product requirements of the California Department of Health Services "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."
D. Two Face Tape: Manufacturer's standard high bond, foam-core tape, 0.045 inch (1.14 mm) thick, with adhesive on both sides.
E. Bituminous Paint: Not Used.

2.6 FABRICATION

A. General: Provide manufacturer's standard sign assemblies according to requirements indicated.
1. Preassemble signs and assemblies in the shop to greatest extent possible. Disassemble signs and assemblies only as necessary for shipping and handling limitations. Clearly mark units for reassembly and installation; apply markings in locations concealed from view when assembled.
2. Mill joints to a tight, hairline fit. Form assemblies and joints exposed to weather to resist water penetration and retention.
3. Comply with AWS for recommended practices in welding and brazing. Provide welds and brazes behind finished surfaces without distorting or discoloring exposed side. Clean exposed welded and brazed connections of flux, and dress exposed and contact surfaces.
4. Conceal connections if possible; otherwise, locate connections where they are inconspicuous.
5. Internally brace signs for stability and for securing fasteners.
6. Provide rebates, lugs, and brackets necessary to assemble components and to attach to existing work. Drill and tap for required fasteners. Use concealed fasteners where possible; use exposed fasteners that match sign finish.
7. Castings: Fabricate castings free of warp, cracks, blowholes, pits, scale, sand holes, and other defects that impair appearance or strength. Grind, wire brush, sandblast, and buff castings to remove seams, gate marks, casting fins, and other casting marks before finishing.
B. Brackets: Fabricate brackets, fittings, and hardware for bracket-mounted signs to suit sign construction and mounting conditions indicated. Modify manufacturer's standard brackets as required.
1. Aluminum Brackets: Factory finish brackets with baked-enamel or powder-coat finish to match sign-background color unless otherwise indicated.
2. Stainless-Steel Brackets: Factory finish brackets to match sign background finish unless otherwise indicated.

2.7 GENERAL FINISH REQUIREMENTS
A. Protect mechanical finishes on exposed surfaces from damage by applying a sticzoalco, temporary protective covering before shipping.
B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled, installed, and finished in compliance with the requirements.
C. Directional Finishes: Run grain with long dimension of each piece and perpendicular to long dimension of finished skin or border surface unless otherwise indicated.
D. Organic, Anodic, and Chemically Produced Finishes: Apply to form metal after fabrication but before applying contrasting polished finishes on raised features unless otherwise indicated.

2.8 ALUMINUM FINISHES
A. Clear Anodic Finish: AAMA 611, Class II, 0.010 mm or thicker.
B. Color Anodic Finish: AAMA 611, Class II, 0.010 mm or thicker.
C. Baked-Enamel or Powder-Coat Finish: AAMA 2603 except with a minimum dry film thickness of 1.5 mils (0.04 mm). Comply with coating manufacturer's written instructions for application, curing, and baking finish.

2.9 STAINLESS-STEEL FINISHES
A. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.
B. Polished Finishes: Grind and polish surfaces to produce uniform finish, free of cross scratches.
1. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces optically clean.
2. Directional Satin Finish: No. 4
3. Dull Satin Finish: No. 6
4. Reflective, Directional Polish: No. 7
5. Microline Reflective, Nondirectional Polish: No. 8.

2.10 CLEAR ORGANIC COATING FOR COPPER-ALLOY FINISHES
A. Clear Organic Coating: Clear, waterborne, air-drying, acrylic lacquer called "Inoradic," specially developed for use on copper-alloy products. Consist of a solution of methyl methacrylate copolymer with benzotriazole to prevent breakdown of the film in UV light; shop applied in two uniform coats per manufacturer's written instructions, with interim drying between coats and without runs or other surface imperfections, to a total dry film thickness of 1 mil (0.025 mm).

PART 3 - EXECUTION

3.1 EXAMINATION
A. Examine substrates, areas, and conditions with Installer present for compliance with requirements for installation tolerances and other conditions affecting performance of signage work.
B. Verify that sign support surfaces are within tolerances for sign placement and irregularities between backs of signs and support surfaces unless otherwise indicated.
C. Verify that electrical service is coordinated and located to accommodate signage.
D. Proceed with installation only after factory contact has been completed.

3.2 INSTALLATION

A. General: Install sign using fastening methods indicated and according to manufacturer's written instructions.
1. Install sign in accordance with manufacturer's plan to line, and alignment and heights indicated, with sign surfaces free of distortion and other defects in appearance.
2. Before installation, verify sign surfaces are clean and free of materials or debris that would impair installation.
C. Coordination: Coordinate locations of exterior aluminum in contact with grout, concrete, masonry, wood, or dissimilar metals, with a heavy coat of bituminous paint.
B. Shipping Materials, Tools, and Equipment: Provide materials and equipment for the complete fabrication and installation of the product to meet the schedule in the contract documents.
1. Projecting Studs: Using a template, drill holes in substrate aligning with studs on back of sign. Remove loose debris from hole and substrate surface.
a. Masonry Substrates: Fill holes with adhesive. Leave recess space in hole for displaced adhesive. Place sign in position and push until flush to surface, embedding studs in holes. Temporarily support sign in position until adhesive fully sets.
b. Thin or Hollow Surfaces: Place sign in position and flush to surface, install washers and nuts on studs projecting through opposite side of surface, and tighten.

2. Projecting Studs: Using a template, drill holes in substrate aligning with studs on back of sign. Remove loose debris from hole and substrate surface.
a. Masonry Substrates: Fill holes with adhesive. Leave recess space in hole for displaced adhesive. Place spacers on studs, place sign in position, and push until spacers are pinched between sign and substrate, embedding the stud ends in holes. Temporarily support sign in position until adhesive fully sets.
b. Thin or Hollow Surfaces: Place spacers on studs, place sign in position with spaces pinched between sign and substrate, and install washers and nuts on stud ends projecting through opposite side of surface, and tighten.
3. Through Fasteners: Drill holes in substrate using predrilled holes in sign as template. Countersink holes in sign if required. Place sign in position and flush to surface. Install through fasteners and tighten.
4. Back Bar and Brackets: Remove loose debris from substrate surface and install backbar or bracket supports in position so that signage is correctly located and aligned.
5. Adhesive: Clean bond-breaking materials from substrate surface and remove loose debris. Apply linear beads or spots of adhesive symmetrically to back of sign and of suitable quantity to support weight of sign after cure without slippage. Keep adhesive away from edges to prevent adhesive extrusion as sign is applied and to prevent visibility of cured adhesive at sign edges. Place sign in position, and push to engage adhesive. Temporarily support sign in position until adhesive fully sets.
6. Two-Face Tape: Clean bond-breaking materials from substrate surface and remove loose debris. Apply tape strips symmetrically to back of sign and of suitable quantity to support weight of sign without slippage. Keep strips away from edges to prevent visibility at sign edges. Place sign in position, and push to engage tape adhesive.

3.3 ADJUSTING AND CLEANING

A. Remove and replace damaged or deformed characters and signs that do not comply with specified requirements. Replace characters with damaged or deteriorated finishes or components that cannot be successfully repaired by finish touchup or similar minor repair procedures.
B. Remove temporary protective coverings and stripable films as signs are installed.
C. On completion of installation, clean exposed surfaces of signs according to manufacturer's written instructions, and touch up minor nicks and abrasions in finish. Maintain signs in a clean condition during construction and protect from damage until acceptance by Owner.

3.4 CODE REQUIREMENTS
A. Responsible for all permit drawings as well as permit procurement fees or any variance processes required.
B. Responsible for ADA signage compliance as well as city code requirements.

END OF SECTION 10 14 19

SECTION 09 70 00 - WALL FINISHES

09 70 20 - WALL COVERING

PART 1 - GENERAL

1.01 Scope
Furnish a vinyl wallcovering as specified in the contract documents.
1.02 Sample
Submit a sample of each type and color to be installed for the architect's approval.
1.03 Certificate of Compliance
Submit manufacturer's certification that wallcovering furnished meets or exceeds the architect's specification requirements.
1.04 Warranties
Furnish a written warranty against defective workmanship that may develop within one (1) year from date of installation and 5 years against manufacturer defects.

1.05 Product Delivery Storage and Handling
Deliver vinyl wallcovering and adhesive to the job site in unbroken or undamaged containers and clearly marked with the supplier's identification label. Store vinyl wallcoverings in a temperature-controlled environment to avoid damage to roll ends. Store materials in a clean, dry storage area with temperature maintained above 55°F with normal humidity. DO NOT CROSS STACK THIS MATERIAL.

1.06 Project Conditions
Areas where wallcovering will be installed shall have a constant minimum temperature of not less than 60°F for at least 48 hours prior to and throughout installation and for seven days thereafter.

PART 2 - PRODUCTS

2.01 Vinyl Wallcovering
Shall meet Federal Specification CCC-W-408A and the CPFA 79-101-D, except that for Vinyl-Coated Fabric Wallcovering, The Wallcovering Type I, Type II or Type III desired shall be specified. The vinyl wallcovering shall contain mildew inhibitors.
2.02 Vinyl Wallcovering (Teflon® Protected)
Shall meet the requirements as listed in 2.01 and in addition shall be 0.007 thick Teflon film applied to the wallcovering surface.
2.03 Burning Characteristics
The manufacturer shall certify at the time of shipment that the materials comply with the published flame spread and smoke development (Fire Hazard Classification Rating's) of those products when tested according to ASTM E84 Tunnel Test.
2.04 UL Label
All products shall be UL labeled and must comply with all specifications and requirements through continuous inspection by UL inspectors.
2.05 Early Warning Effect Formulation
The vinyl wallcovering shall contain an Early Warning Effect formulation which provides early warning to potential fire conditions. The vinyl wallcovering shall contain thermoplastic ingredients which, when heated to approximately 300°F, emit a colorless, odorless vapor that activates ionization smoke detectors installed according to manufacturer's specifications. Evidence of the Early Warning Effect shall be based on the ASTM E603 standard guide for room fire experiments.
2.06 Adhesive
Resene Decorating Products, Professional Series: Pro 870 H D clear skippable.
2.07 Resene Decorating Products, Professional Series: Pro 977 - F for new drywall applications.
2.08 Resene Decorating Products, Professional Series: Pro 909 - F for existing painted surface.

PART 3 - EXECUTION

3.01 Inspection
A. Installer shall inspect all areas and conditions under which vinyl wallcoverings are to be installed. Installer shall notify the contractor and architect in writing of any conditions detrimental to the proper and timely completion of the installation; work will proceed only when conditions have been corrected and accepted by the installer.
B. Substrate shall be checked with a suitable "Moisture Meter." Moisture shall not exceed 4%.
3.02 Surface Preparation
A. Wall surfaces shall be free from defects and imperfections that could show through the finished covered surface.
B. Semi-finished plaster shall be smoothed, and/or cement blocks shall be plastered, or otherwise restored smooth, and old wallcoverings shall be removed.
C. For new drywall construction, manufacturer's recommended primer should be used before application of wallcovering for ease of future removal when redecorating.
D. Glossy surfaces shall either be sanded to dull surface, or a coat of manufacturer's recommended primer applied prior to installation of wallcovering.
E. If there is any evidence of mildew, it must be removed and the wall surface treated to inhibit further mildew growth.
F. All painted surfaces should be evaluated for the possibility of pigment bleed-through. If there is any possibility, a coat of sealer, recommended by the manufacturer, should be applied before application of the wallcovering.
G. Do not install vinyl wallcovering over oil-based wood stains as a bleed-through may occur.

3.03 Installation
A. Wallcovering shall be installed by experienced workers and contractors in strict accordance with the manufacturer's printed instructions using vinyl wallcovering adhesive recommended by the manufacturer (WHEAT PASTE SHALL NOT BE USED). It is absolutely imperative that installer read the manufacturer's instruction sheet in each roll before installing the vinyl wallcovering. Permanent building light shall be available for installation.
B. Installer, before cutting, shall examine pattern and color and determine that they are the correct pattern and color as specified.
C. Installer shall install each roll in sequence starting with largest roll number and each strip in same sequence as cut from roll. If pattern is not random, examine for repeat design. Some patterns should be lined up, matched or reversed for best results. If necessary, trim selvage deep enough to assure color uniformity.
D. After application of three strips, an inspection should be made and if there are any variations in color or pattern which are felt to be excessive, the wallcovering distributor or manufacturer's representative should be notified for his inspection before any further wallcovering is installed.
E. Always bring in material six (6) inches around inside and outside corners being sure to fit into corners to avoid bridging or spalling.
F. The wallcovering should be smoothed to the hanging surface with a stiff bristled sweep brush or a flexible board-knife to disperse air bubbles.
G. Remove excess adhesive along finished seam immediately after each wallcovering strip is applied. Use of clean, warm water, a natural sponge and clean towels are recommended for this use. It is very important to change water often to maintain cleanliness.

3.04 Clean up Completion
Upon completion of work, remove surplus materials, rubbish and debris, resulting from the wallcovering installation. Leave areas in neat, clean and orderly condition.

END OF SECTION 09 70 20

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NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION

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SHEET LEGEND	
SYN	GENERAL INFORMATION & NOTES OF WORK
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ALC	ALUMINUM CASTINGS & CASTINGS
AMC	ALUMINUM CASTINGS & CASTINGS
APP	APPLYING
AV	AIR VENTILATION & EXHAUST SYSTEMS
AVP	AIR VENTILATION & EXHAUST SYSTEMS
B	BUILDING SYSTEMS
C	CIVIL ENGINEERING & SITE WORK
CL	MECHANICAL, ELECTRICAL, PLUMBING & HVAC
CP	CONCRETE
CS	CONCRETE STRUCTURE
CT	CONCRETE TREATMENT
CU	CUPRO-NICKEL
E	ELECTRICAL
EM	MECHANICAL EQUIPMENT
EN	ENGINEERING & EQUIPMENT

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REV	DATE	DESCRIPTION

KEY PLAN:

SHEET TITLE:
SIGNAGE
SPECS

SHEET NUMBER:
WFO02