



Miami River Greenway: Wayfinding and Environmental Graphics Specifications

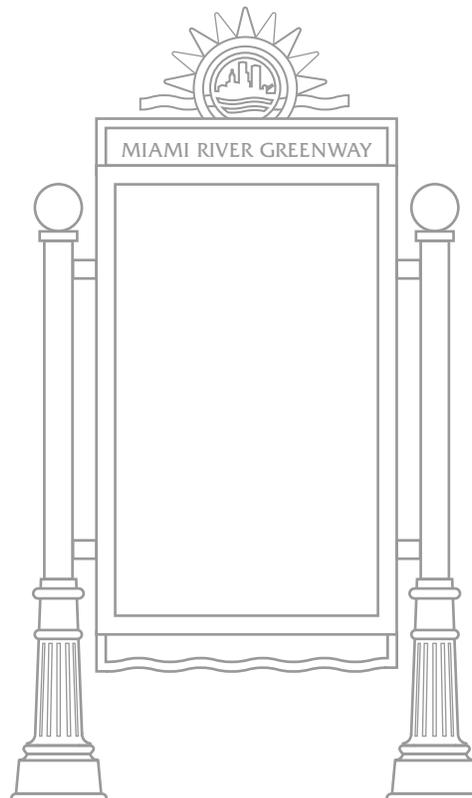


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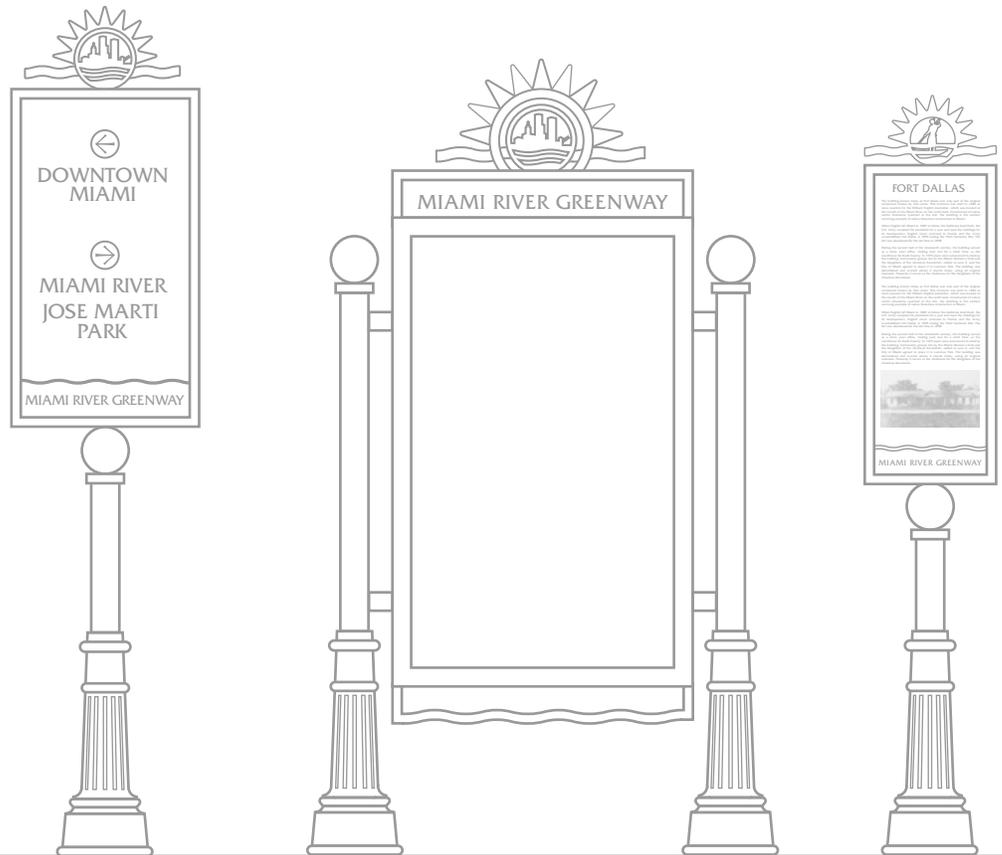
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Part One:
General Specifications



SECTION 1: GENERAL SPECIFICATIONS

OVERVIEW

The sign types specified within this document are elements of a new exterior wayfinding program designed as part of the Miami River Greenways project. These signs will be installed along new exterior public walkways and parks adjacent to the Miami River in Miami, Florida.

This area has a rich cultural history, and is an active “working” river that winds from Downtown through the surrounding communities. The area is in active development and re-development—the new greenway paths wind through diverse neighborhoods consisting of old (and historic) communities, inner city, new residences and condominiums, public parks, commercial fishing & shipping, restaurants, retail, hotels and historic landmarks.

The concepts within are elements of a new urban identity system, designed to help create a unique “sense of place” to this emerging district. The stylized sign graphics, colors and symbols have been designed to compliment, and were developed in conjunction with, new paving, landscaping and street furniture.

These signs will be installed along city streets in very public, urban locations. As such, they will be very accessible to the public—but also very exposed to both the harsh South Florida environment (salt, sun and wind) and potential vandals, graffiti artists, thieves etc.

The specifications within strive to find the proper balance of art and durability—but it will be the responsibility of the selected Sign Fabricator to build and execute these concepts in the most durable, vandal resistant manner possible. The enclosed documents represent “intent”, and the minimum acceptable standards.

The City expects the selected Fabricator to work with them, in the City’s best interests, to deliver a product with the best, most appropriate materials and finishes and highest levels of quality and workmanship. Paint finishes must be UV, vandal and graffiti resistant. Visible and accessible fasteners should be kept to an absolute minimum, and must be completely tamper-proof. Steel is the preferred choice for all metal components, and should be used whenever possible (aluminum parts are often vandalized and stolen within the City—this should be taken into consideration). Installations must be clean and secure, and meet the strict South Florida codes.

Fabricators are encouraged to suggest alternative methods, materials and finishes if they believe they will produce a superior quality and durability, and provided that the design integrity and intent is not compromised. All suggestions must be clearly presented in writing (at time of bid, and/or time of shop drawings), along with sufficient reasons and supporting data that demonstrates how the alternate method will exceed or outperform the specification. Cost impact of alternate methods and/or materials must also be presented.

Lastly, at time of submission, there was still some minor “tweaking” of the symbol designs depicted within, and still a few small debates over certain sign locations. The information contained here should be considered accurate for purposes of bidding, and any subsequent changes or revisions should be very minor. Sign Fabricator must be sure to consult with the City on these issues and be sure they have the final versions of all symbols and sign locations before executing the work.

1.01 General

Provide Exterior Signage in accordance with requirements of the Contract Documents. Successful bidder(s) must perform as required by contract and coordinate all work with the City of Miami (Owner) and its project consultants and sub-contractors. Sign Fabricator is expected to meet all established schedules and deadlines, and coordinate these with Owner. Sign Fabricator representative is required to attend a general kick-off meeting with Owner, and subsequent periodic meetings as agreed to with Owner. Sign Fabricator is expected to cooperate fully with the Owner to expedite and facilitate the prompt and accurate completion and installation of all sign elements. Sign Fabricator will coordinate his efforts with other contractors and suppliers of equipment and services that the Owner may engage outside of his contract.

1.02 Sign Types, Characteristics and Locations

Refer to accompanying signage design intent drawings.

1.03 Time of Completion

As directed by Owner.

1.04 Preconstruction Conference

A preconstruction meeting will be held with Owner and Sign Fabricator to establish final specification, field working conditions, and proper channels for coordination.

1.05 Codes

Property is located in Miami, Florida in Miami-Dade County. Presiding sign codes are City of Miami and FDOT. Fabricator must insure that all work performed is in accordance with these sign codes.

1.06 Design Wind Load

Provide sign assemblies designed, tested, and installed to withstand positive and negative wind loads per the requirements of all local and national codes for the area, and approved by licensed engineer.

1.07 Submittals by Sign Contractor

A. Shop Drawings

Shop drawings for all items must be submitted to Owner for approval prior to all fabrication. Furnish elevations, details of fabrication and erection, including all materials, shapes, dimensions, finishes, design loads, anchorage, letters of illumination, method of connections etc. Show dimensions of letters and logo forms.

B. Samples

Fabricator must match exactly all custom paint and materials as specified. Fabricator must provide samples, for approval, of all finishes specified. Submit (2) sets of 8" x 10" (for review/approval by Owner) non-returnable samples of each custom and standard color, material or finish as specified in these design documents. Then submit (2) sets of non-returnable 8" x 10" samples of each approved custom and standard colors and finishes on the actual materials.

C. Full -Size Patterns and Lettering

Provide Owner with full-size (where possible- to scale for very large elements) patterns of each sign element to be fabricated. Fabricator is responsible for generating all additional "camera -ready art", and must supply layouts, for approval, of each sign panel prior to fabrication. City will provide selected Fabricator with some typical digital "camera-ready" artwork. Art that will be provided includes all symbols/logos to be used, (1) typical layout for each sign type, camera-ready artwork for all Porcelain Enamel historical sign graphics, and fonts used. Artwork will be supplied on CD, in vector format as Adobe Illustrator CS and .eps files, Macintosh format.

D. Supplementary Product Literature

The Sign Fabricator will furnish Owner any manufacturers' literature describing the general properties of each product to be used in the Work.

E. Structural calculations

Furnish engineering calculations to show that maximum stress and deflection of sign elements and sign support system do not exceed specified performance requirements under full design loading. Calculations shall be prepared and sealed by an engineer licensed in the province where project is located.

F. Extra Materials

Deliver extra materials to the Owner in manufacturer's original packing, touch up paint, lamps, hardware, installation materials, inserts, etc., as may be required.

1.08 Permits by Sign Contractor

Sign Contractor shall make all submittals for permits, shall be responsible for paying all fees, making adjustments as required, or any task necessary for obtaining local building and installation Sign Permits for the proper execution of the work. Sign Contractor to coordinate all permits required with the Owner and/or General Contractor.

1.09 Quality Assurance

A. Working Prototypes

Provide working prototypes of actual sign types as specified, within an agreed upon time frame after signing of contract. Prototypes for this project are listed below, and are in addition to the finish samples required in 1.07 (B).

1. One (1) complete Sign Type W-PED-01, Pedestrian Wayfinding sign. Sign is to delivered and presented to the City in Miami, at a location and date to be specified by the City. Prototype will be evaluated for compliance of colors, materials, size, workmanship and overall quality. Sign will be returned to Fabricator with written comments and may be used as a production piece provided all Owner's comments and corrections are flawlessly executed. Sign will be the measure by which all others will be judged, and other signs will be expected to exactly match prototype standards.
2. A working and illuminated W-KSK, Kiosk sign must be made available for review and evaluation in Sign Fabricator's shop during the fabrication process. Owner will review sign for proper illumination, seals and cabinet function, as well as materials, colors and quality of workmanship. Timing and scheduling of review and visit will be discussed and mutually agreed to by Owner and Fabricator.
3. A sample of the Porcelain Enamel product/technique to be used on the W-HIS Historical Marker signs, showing similar material thickness, finish, resolution and line-screen for graphics. Sample does not need to be created for this project, but must be from the actual Porcelain manufacturer that will be used.
4. A sample of the Cast Bronze product/technique to be used on the W-MIM, Mile Marker signs, showing similar thickness, material, finishes and casting depth. Sample does not need to be created for this project, but must be from the actual Foundry that will be used.
5. One (1) sample each of the six (6 - total) different water-jet cut symbols to be used on the top of Sign Type W-PED and W-HIS signs. Symbols must be fully painted with actual finish, and will be reviewed for accuracy of representation and quality of workmanship. (1) Complete set of symbols will be kept by Owner as a record set.

B. Work-In-Progress Approval

In addition to a shop review of the Kiosk sign mentioned in "A. Working Prototypes" above, Owner may request to review other work-in-progress at the Sign Fabricator's shop. If requested by Owner, Fabricator must make available for review and inspection in

shop of requested signs or elements. Owner will give proper advance notice and schedule in advance any shop visits.

C. Regulatory Requirements

Comply with applicable requirements of the laws, codes, ordinances, and regulations of Federal, State and Municipal authorities having jurisdiction. Obtain necessary approvals and permits for all such authorities.

D. Markings and Labels

No labels or markings are to be used unless required by authorities per code. If necessary, locate markings and other identifications so as to be concealed from public view and as acceptable to Owner.

E. Final Location of Signs

Sign locations are provided within the accompanying specification. The exact final locations of sign elements shall be reviewed, approved, and directed by Owner and confirmed at the site. Sign Contractor shall arrange for meetings at the site to accommodate Owner's review and direction of final locations.

F. General

1. The Sign Contractor is responsible for hiring, compensating and coordinating all sub-contractors in the various trades that may be required to construct the Work. The Sign Contractor shall be responsible for the quality of all materials and workmanship of any firm or individual who act as sub-contractor. All work under this Contract shall be performed by skilled craftsmen under supervision of trained foremen, experienced in the trade or craft required to accomplish the work and produce products of high quality. The Sign Contractor shall guarantee all materials and workmanship for five years after date of acceptance of Work by Owner.

2. Written dimensions on drawings shall have precedence over scaled dimensions. Sign Contractor shall field verify and be responsible for all dimensions and conditions shown by these drawings. Shop details must be approved by Owner.

3. Owner shall be notified by Sign Contractor of any discrepancies in drawings, in-field dimensions or conditions and/or changes required in construction details.

4. Sign Contractor may not manufacture, reproduce, or exhibit these designs, or modify them for any other purpose outside of this current contract without written approval of Owner.

1.10 Warranty

A. Signing Warranty

Furnish 5-year written warranty signed by the Sign Contractor and Installer, agreeing to repair or replace Work that has failed as a result of defects in materials or workmanship.

Fabricator is responsible to acquire any authorization necessary to provide manufacturer's warranty for all materials. Upon notification of such defects, within the warranty period, make necessary repairs or replacement at the convenience of the Owner.

B. Paint Finish Warranty

Paint finish specified for this project is "Matthews Acrylic Polyurethane" and this is the minimum acceptable finish. Fabricator may propose alternate finishes if he believes, and can show sufficient evidence to support, that the alternate finish will exceed the specified finish in wear, durability, color fastness and maintenance. All specified colors must still be matched exactly. Powder coating may be presented for evaluation as an alternative, if both feasible & not cost prohibitive.

1. "Excessive Fading"

A change in appearance that is perceptible and objectionable as determined by the Owner when visually compared with the original color range standards.

2. "Excessive Non-Uniformity"

Non-uniform fading to the extent that adjacent panels have a color difference greater than the original acceptable range of color.

3. "Will Not Pit or Otherwise Corrode"

No pitting or other type of corrosion, discernible, from a distance of 10' (3m), resulting from the natural elements in the atmosphere at the project site.

4. Paint finishes shall be "graffiti-resistant" within current reasonable and acceptable standards for such signs. Graffiti resistant coatings or paint additives should be used when possible and practical to make graffiti removal easier.

1.11 Maintenance

Furnish complete manuals describing the materials, devices and procedures to be followed in operating, cleaning and maintaining the Work. Include manufacturer's brochures and parts lists describing the actual materials used in the Work, including metal alloys, finishes, and other major components. Assemble manuals for component parts into single binders identified for each system.

1.12 On-Site Conditions

By bidding, Sign Contractor acknowledges that he has visited the site and is familiar with the site and all conditions under which this work is to occur.

SECTION 2 : PRODUCTS

2.01 Sign Materials

A. Adhesives

Silicone adhesive used for installing sign items shall be as manufactured by General Electric, Dow Corning, or equal. Polyfoam or “Isotac” contact adhesive tape, manufactured by 3M, shall be used in conjunction with silicone adhesives for installation of sign parts (if applicable), in minimum thicknesses available.

B. All Specified Metals

Steel is the preferred material for all ornamental, architectural work. If necessary, Aluminum may be used in combination with/instead of steel. Due to the public nature and location of the project, Owner is concerned that aluminum components are a greater theft and vandalism risk, given past experiences elsewhere in the City. Surface finish shall be smooth, free of extrusion marks or imperfections. Alloy shall be selected to meet the structural requirements of the specific application. Structural metal for concealed framing shall be of hot or cold rolled steel or structural aluminum as required to properly satisfy sign engineering specifications.

C. Brass/Bronze/Stainless Steel/Aluminum

Where Brass, Bronze, or Aluminum is specified on the drawings, provide as a solid not plated, alloy of copper and zinc. All Stainless Steel shall be of an alloy with the highest degree possible of corrosion resistance.

D. Concrete Foundations

Sign Contractor shall provide structurally engineered concrete footings/foundations and nonstructural (mow-strip) pads at grade (in landscaped areas only) to meet all local and national building code requirements.

E. Foam Tape (if applicable)

Provide black polyurethane foam tape or “VHB” laminate tape as manufactured by 3M (or equivalent), applied to sign components as required, non-visible.

F. Porcelain Enamel

Detailed Requirements:

1. Base Metal

Base metal shall be steel. For the purposes of this specification, steel is defined to include:

- a. Special purposed "enameling iron or steel" of low metalloïd and copper content, expecially manufactured and processed for the production of porcelain enamel units for architectural purposes

b. Conventional cold rolled sheets which can be satisfactorily porcelain enameled and which meet other requirements of this specification. Note: Warpage may be a significant factor when using cold rolled steel as it impacts “6. Flatness of Panel” below.

2. Processing

A porcelain enamel coating shall be applied to all areas of each unit, including back and flanges, by methods recognized as good commercial practice. At least one additional fired coating shall be applied to the face side of each unit.

3. Corrosion Protection

The back side of non-laminated panels shall be protected with fired porcelain enamel coating. The coating requirements for the back side do not apply when adequate corrosion protection is provided to the panel by the laminated construction.

Corrosion protection in laminated panels is dependent upon the durability of the lamination.

4. Porcelain Enamel Finish

a. Weather Resistance

The porcelain enamel finish on all surfaces exposed to weathering shall pass the acid spot test as given in the Test Methods section. In addition, all red, yellow and orange porcelain enamels shall pass the cupric sulfate test as described in the same section.

b. Continuity of Coating

Visual inspection of each piece shall reveal no visible breaks or surface defects in the cover coating that will expose the underlying coating or the steel on surfaces exposed to weathering, nor the underlying steel on either the back or flanges. This requirement shall not apply to sheared edges.

Special metallic coatings are sometimes fired onto porcelain enamel surfaces to achieve specific textures and finishes. This coating may be continuous or may have purposely induces breaks and discontinuities. Such coatings shall qualify under this requirement if the underlying porcelain enamel satisfies all requirements in this specification.

c. Surface Appearance

The porcelain enamel on all surfaces exposed to weathering shall be free of blemishes in the coating that may impair the serviceability or detract from the general appearance of the panel when viewed from a distance of 5 feet or the distance at which the panel will be normally viewed, whichever is the greater. Orange peel and surface finish should be reviewed and agreed on before production. Color tolerances should be

agreed on before production. Certain colors are more susceptible to color stability.

6. Flatness of Panel

Finished faces shall have a maximum variation of 3/16" (4.76mm) in a convex direction when measured perpendicular to the nominal plane of the panel face. Variation in the concave direction shall be limited to 3/32" (2.38mm) from actual plane of the panel face. These tolerances are for panels with a face area of 8 sq. ft. (0.86 m²) or less. Proportionately greater allowance will be permitted for panels of greater areas. Panels are to be measured in the position (usually vertical) in which the panel will eventually be installed. Note: While not a part of the specification itself, further data regarding flatness is set forth in the Section, Supplementary Considerations.

7. Clips and Attachments

All metal lugs, clips and other attachments fastened to the panel, as well as those furnished unattached by the manufacturer, for the purpose of attaching the panel to the building structure shall be made of a recognized corrosion resistant metal such as stainless steel type 302 or equivalent. This requirement specifically excludes stiffener bars or braces, clips for holding insulation in place, and similar devices not intended for the purpose of attaching the panel to the building structure. Also excluded are furring, substructure assemblies, or braces that may be furnished by the manufacturer.

8. Gloss

The gloss of the porcelain enamel finish, together with permissible tolerances in gloss, should conform visually with samples selected by the architect and/or purchaser during negotiation of the contract. It is also recommended that the finish be of a type that will not reflect distinct images. If the reflecting power is high, images seen in the mounted panels will usually be distorted due to even very small deviations from flatness. Experience has shown that the overall appearance of a structure will be considerably improved if the image reflection (distinctness-of-image gloss) is kept as low as possible. A qualitative evaluation of this type of gloss can be made by observing the image of a window mullion in the surface of the panel. If the image is clear and sharp, the distinctness-of-image gloss is normally too high for architectural purposes.

9. Color

The color and color tolerance should be specified in the purchase contract. If possible, this should be based on porcelain enameled sample color specimens. Compliance with color specification may be determined by visual matching under viewing conditions mutually agreed upon by the contracting parties, or may be determined instrumentally.

The color tolerance to be specified should depend upon the color service requirement and the ease with which particular color or colors can be controlled

in production, and should be clearly specified in the purchase contract. To be considered also are the type of structure, the texture of the finish, and the proximity of adjacent panels. Some colors can be controlled more closely than others.

Decorative colors and coloring processes, such as stenciling, silk screening and highlighting, may be used to produce designs, letters and special effects, provided the finish so produced meets all of the requirements of this specification

10. Texture

The porcelain enamel will be furnished in a smooth and non-textured finish. Orange peel tolerance should be specified with tolerance samples.

11. Thickness of Porcelain Enamel

Various thicknesses are encountered in commercial ware. Thickness tolerance should be agreed upon in writing before production. Texture, color and processing techniques influence the amount of porcelain enamel which is applied.

Thin porcelain enamel coatings are desirable to provide maximum resistance to damage from flexure. However, processing methods and desired appearance characteristics may result in variations of recommended minimum thickness of the coating. A minimum of 0.0035" (0.089 mm) of cover coat will normally provide acceptable durability. The total thickness may range from 0.005 to 0.020" (0.127-0.508 mm), depending upon process and appearance.

Total thickness should not exceed 0.020" (0.508 mm), except where greater thicknesses are necessary to meet specific appearance requirements.

12. Thickness of Metal

Thickness, grade and design tolerance of metal should be agreed upon during negotiation of the contract. Full consideration should be given to the size, shape or detail of the unit, and the duty which the unit is to perform in the building structure

13. Packaging and Shipping

Packaging, shipping and handling methods should be specified and should be practical for supplier, shipper, and erector.

14. Shop Drawings

Complete drawings should show forming detail, tolerances allowed (both dimensional and flatness), location in completed structure, and on-the-job cutting or drilling requirements. The maximum allowable extent of damage due to drilling and cutting should be agreed upon by contracting parties.

G. Hardware/Hinges

Provide and install all incidental hardware necessary for the proper functioning of the signs, including but not restricted to materials and products covered in this section. Provide stainless steel hinges for all hinged access panels. Provide pin tumbler locks for all access panels requiring locks. Provide stainless steel fasteners for assembling ferrous and nonferrous metals. Exposed fasteners should be kept to an absolute minimum to adhere to design intent and to minimize risk of vandalism. Any exposed fasteners must be 100% tamper-proof. Every provision must be taken to insure exposed fasteners will be extremely difficult, if not impossible, to be removed or tampered with.

H. Insulation

Separate all ferrous and non-ferrous metals with non-conductive gaskets to prevent electrolysis. In addition to gaskets, provide stainless steel fasteners for same case.

I. Acrylic Plastic & Lexan

Shall be continuous manufactured/extruded UV polycarbonate lexan, appropriate for exterior applications as required. All plastics shall be of uniform color, translucence and illumination, as supplied by manufacturer. No visible seams are permitted. Minimum allowable thickness is 1/8" thk. unless otherwise noted on drawings.

2.02 Finishing Materials

Linear Polyurethane Coatings. Provide the following or approved equal as acceptable to Owner.

1. Acrylic Linear Polyurethane Enamel Two component, acrylic aliphatic isocyanate/ acrylic polyurethane having ultraviolet inhibitors and engineered for application to sign components.
2. Primer for Aluminum Two part component Primer: One coat Matthews 74-734 and 74-73S Metal Pretreat at .25 mils dry film thickness or one coat of Matthews 74793 Spray Bond at .15 to .25 mils dry film thickness or Wyandotte/AKZO Grip Guard Wash Primer (2AFY-31284) with Grip-Guard ash Primer Hardner (IOAFK-31285) combined and applied per manufacturer's specifications or approve equal (primer) for the application of the pre-approved and pre-formulated paint system.

3. Clear Sealers

As required of highest quality available, applied per manufacturer's specifications: Crystal Clear Polyurethane Sealer.

2.03 Lighting and Electrical

A. Responsibility

Sign contractor to coordinate with G.C. and the City, the provision and installation of all necessary electrical hook-ups, power requirements and sources of power. G.C./Sign contractor to insure that adequate source of power is provided at all sign location points-of-connection.

B. Electrical Components

Sign Contractor shall provide all electrical materials necessary to properly illuminate the sign elements, including ballasts, transformers, sockets, fluorescent housings, connectors, lighting elements and all other equipment which shall be new and shall be approved by Underwriters' Laboratories, Inc. (U.L. rated). The assembly of all components within the illuminated sign elements and lighting control area shall conform to all standards of Underwriters' Laboratories, Inc. as published in the latest edition of "Standards of Sign Safety US", and all illuminated parts shall bear the U.L. label. There shall be no exposed wiring or connections unless otherwise coordinated with the Owner. Sign Contractor to provide in bid for all work required from P.O.C. to sign.

C. Ballasts

As required for internally illuminated cabinet signs in quantity and arrangement as recommended by ballast manufacturer; accessible for maintenance.

D. Disconnect Switch

All signs or sign components with electrical service shall be equipped with an approved external disconnect switch, flush mounted on top of the cabinet, with circuits and capacity to control all primary wiring within the sign. Location of switch must be shown on shop drawings, positioned in the most non-visible and least accessible to the public location as is possible, and is subject to Owner approval.

E. Illumination

All signs with fluorescent lamps shall be cool white, at the length and placement necessary to provide even illumination, without light leaks. All lamps and ballasts shall be provided by the Sign Contractor. Provide waterproof flush access panels, concealed wherever possible. Conduit wiring and electrical equipment from the "J" box within to any part of the sign shall be provided by the Sign Contractor.

F. Ventilation

While maintaining a proper weather seal, provide for sufficient ventilation of sign components to prevent overheating or warpage; allowing for color of sign, mounting surface, climatic conditions, etc. In providing for ventilation, protect sign from elements (rain, wind, debris, etc.) that may cause operational or cleaning problems. Signs/cabinets with light leaks will not accepted.

G. Wiring

High-tension wiring shall not be less than GT0 15 wire. All wiring shall be AWM 90 0 centigrade 1000 volt TW/MTW U.L. file no. 18971. Wiring connectors for wire splicing shall be U.L. approved 1000 volt capacity. They shall be Scotch Lock type Y or R equal. All splices shall be placed as to easily access for inspection.

H. Electrical Connection

Sign Fabricator shall connect sign to power source. Owner will supply appropriate power to sign site.

I. Verification of Site Voltage

Sign fabricator shall verify site voltage prior to fabrication and insure compatibility of all signage elements.

2.04 Fabrication of Signs and Supports

A. General

Provide custom manufactured sign assemblies, components completely fabricated and finished at factory before delivery to site. Construct to accurate detail and dimensions as shown and as review on shop drawings. Fit and assemble the Work at shop to the greatest extent possible, and mark the components as required to facilitate assembly during installation. Exposed fasteners on finished faces will not be allowed, unless specifically indicated. Waviness and oil canning of surfaces is not acceptable.

B. Seams and Joints

Whenever possible, in the interest of durability and vandal resistance, all sign elements should be continuously welded together. Mechanical fasteners should only be used when welding is impossible, or on parts that are not publicly accessible. 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 not be visible on exterior of signs after final finish has been applied. No gaps, light leaks, waves, or oil canning will be permitted in work.

C. Metal Signs and Supports

Fabricate exposed surfaces uniformly flat and smooth, without distortion, pitting, or other blemishes. Form exposed metal edges to a smooth radius. Grind exposed welds and rough areas to make flush with adjacent smooth surfaces.

1. Welding

Make welds continuous. Comply with American Welding Society, Aluminum Association, and Copper Development Association standards for the type of metal. Provide the alloy and type required for strength, workability, compatibility and color match after grinding smooth and finishing the fabricated product.

2. Fasteners

Provide tamper-proof bolts, nuts, screws, washers, anchors and other devices required to complete the work. Use same basic metal alloy as the metal fastened, and finished to match in color and texture. Use stainless steel where joining dissimilar materials and weather seal. Use exposed fasteners only where indicated. Perform drilling and tapping at shop. Provide adhesive, sealant, and other necessary materials as specified by Owner.

3. Dissimilar Materials

Where metal surfaces will be in contact with dissimilar materials, coat the surfaces with epoxy paint or provide other means of dielectric separation as recommended by manufacturer to prevent galvanic corrosion. Separate all ferrous and non-ferrous metals with non-conductive gaskets, provide stainless steel fasteners to secure ferrous to non-ferrous metals.

D. Hardware

Provide all incidental hardware necessary for the proper functioning of signs. External hardware shall conform to the external appearance of the sign, and be tamper-proof.

E. Castings

Exposed surfaces uniformly free from porosity and roughness. Edges filled and ground smooth. Faces chemically etched and mechanically polished for specified finish.

F. Galvanizing

Provide for steel components in exterior construction, and where noted to be galvanized. Complete the shop fabrication prior to application of the zinc coating. Remove mill scale and rust, clean and pickle the units as required for proper pretreatment of the surfaces.

G. Water-Jet Cutting

Ornaments and logos that are specified as water-jet cut may not be produced by alternate methods. Ornaments should be cut by computer driven machinery using supplied digital vector artwork, from a single piece of metal plate, and must exactly and consistently reproduce the same design in multiple quantities needed. Metal must be cut clean and smooth with 90-degree edges. All sharp edges, burrs, marks etc. must be ground smooth and clean prior to application of paint finish.

2.05 Shop Application of Sign Finishes

A. Paint Finishes

Clean the surfaces as required for proper adhesion of coatings Use 3M Co. "Scotch Brite" pads with cleanser and water, and/or chemically treat as recommended by paint manufacturer to remove deleterious film or residue.

1. Primer

Provide in strict accordance with paint manufacturer's recommendations as required for proper adhesion and application of finish.

2. Paint

Provide pretreatment & primer in accordance with manufacturer's recommendation.

3. Clear Coat Finish

Provide pretreatment, primer, and gloss finish coatings in accordance with manufacturer's recommendations.

2.06 Artwork

A. Sign Contractor is responsible for generating all non-provided camera-ready artwork required to faithfully execute the Work, using the specification and typical digital camera-ready art provided, and all specified typefaces, symbols and logos.

B. Typeface, letter and word spacing shall follow the format as demonstrated in the Sign Specification documents.

C. All artwork to be produced by digital means by specialists trained in this art.

D. All text is to be generated by digital means. No hand drawn fonts.

E. Owner must review and approve all camera-ready artwork prior to fabrication. Sign Fabricator agrees to correct or adjust any artwork that does not meet Owner's approval.

F. Artwork generated is for the specific use of executing this project and may not be re-used in its same form on non-related projects.

2.07 Application of Graphics

A. Silk screened images and typography

Provide photo processed screening, from digital artwork, arranged to furnish sharp and solid images without edge build-up or bleeding of the coating. Ink density must be 100% opaque, with no transparency or "show through" of background color or graphics. Provide only weather, vandal and graffiti resistant coating materials, compatible with the intended substrates.

B. Vinyl Die-Cut and Pattern-Cut Graphics

Use of vinyl graphics and/or lettering for any and all sign types in this project is prohibited.

2.08 Application of Sign Elements

A. Preparation

Surfaces to receive the sign elements shall be clean, dry, and otherwise made ready for the application of materials. Accurately measure and layout the required marking configurations as indicated on drawings.

B. Sign Graphics

Provide letters, numerals, symbols, and other graphics markings, using finish materials shown. Apply the graphics neatly, uniformly proportioned and spaced, and accurate within the dimensions indicated. Prepare the substrate surfaces and apply finish materials in accordance with manufacturer's instructions.

SECTION 3: EXECUTION

3.01 Pre-installation

A. Verification of Conditions

Examine the areas to receive the Work and the conditions under which the Work would be performed. Sign Contractor shall notify Owner of conditions detrimental to the proper and timely completion of the Work. Do not proceed until unsatisfactory conditions have been corrected.

B. Pre-Installation Meeting

A pre-installation meeting will be held with Owner and Sign Contractor to mutually agree on all installation details, placement, access, etc.

3.02 Installation of Signs

A. General

Complete installation shall be in accordance with manufacturer's printed instructions and accepted shop drawings, to produce Work complying with the Contract Documents. The Sign Contractor will be responsible for daily clean-up of their areas of work.

B. Erection of Signs

Set and attach the Work accurately in location, alignment and elevation, plumb, level and true, as measured from established reference points and from other Work already in place. Fit components accurately together to form tight joints and secure connections. Coordinate with other trades as necessary, if applicable.

3.03 Adjusting

Neatly repair minor blemishes or marring on finished surfaces so that repairs are imperceptible. Completely replace components having permanent non-removable scratches, stains, or other defacement.

3.04 Cleaning

Upon completion of the Work, remove unused materials, debris, containers and equipment from the project site. Remove protective coverings and clean the exposed surfaces of the Work to removal dirt, stains and other substances, by methods as recommended by manufacturer.

3.05 Protection

Protect the Work during the construction period so that it will be without any indication of use or damage. Leave the Work clean and free from defects at time of Owner's acceptance.

3.06 Final Walk-Through and Punch List

A final walk-through will be held with Owner to review the finished installation. Sign Contractor will prepare a punch list of all items requiring modifications. Owner reserves the right to reject all or part of a sign that does not correspond to Design Drawings and specifications or the approved shop drawings, lettering patterns, samples, etc.

3.07 Guarantee

Contractor to provide full guarantee of all workmanship, materials, equipment etc. of this installation for a period of one (5) years after Owner acceptance. Contractor shall replace/repair any defective work within an agreed upon timeframe after notification by Owner, throughout the duration of this period. Contractor shall execute the Warranty/ Guarantee form supplied by Owner.

3.08 Fabrication Errors

If the Sign Fabricator has made an error in copy, color, material, quality, etc. these items must be corrected within an agreed upon timeframe of Owner's observation of error (at no additional cost the Owner). Owner will notify the Sign Fabricator with a written punch list as errors are discovered.

3.09 Storage

If necessary, based on overall project completion dates, Owner may request that some completed signs be stored by the Sign Fabricator in their shop until location is sufficiently built-out and ready for sign install. Storage, if needed, should not be for longer than six (6) months.

SECTION 4: SIGN PANEL TYPEFACE

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

“Friz Quadrata”
(Adobe Systems)

SECTION 5: SAMPLE BID FORM
 (This form must be completed and returned with bid)

Sign Type	Quantity	Unit Cost	Extended Cost
W-PED, Pedestrian Directional		\$	\$
W-KSK, Kiosk		\$	\$
W-PRM, Perimeter Directional		\$	\$
W-MIM, Mile Marker		\$	\$

Installation Price \$ _____

Permitting Costs \$ _____

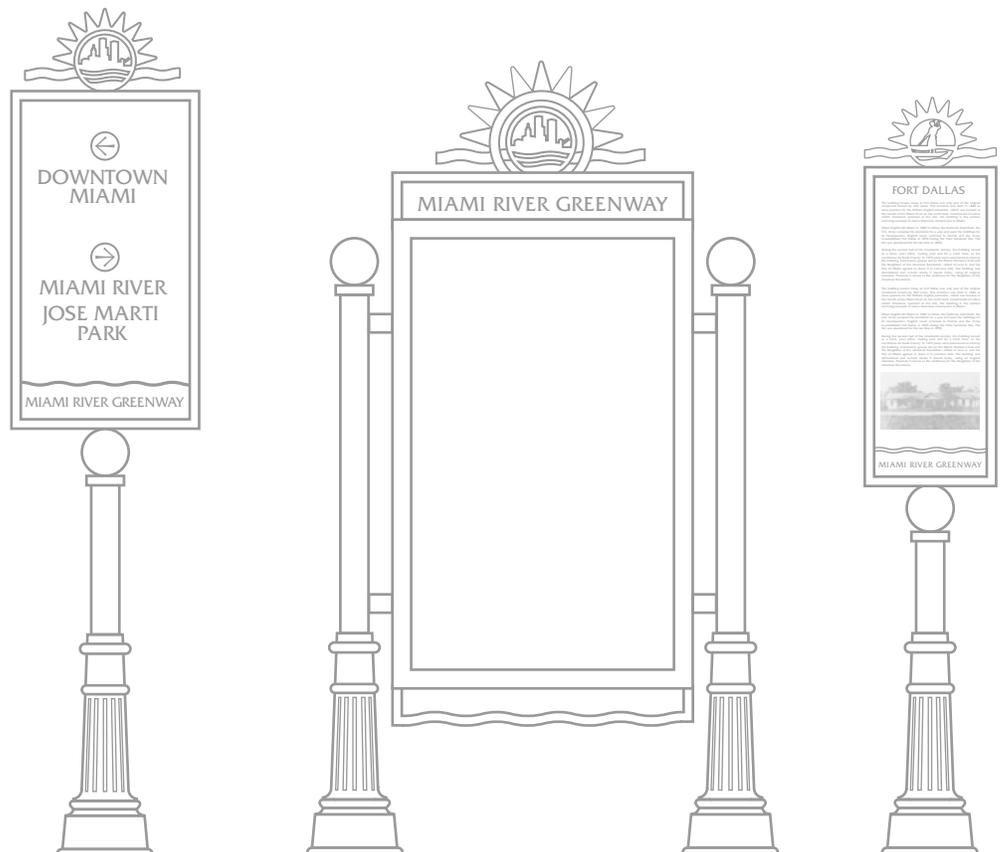
Shipping Costs \$ _____

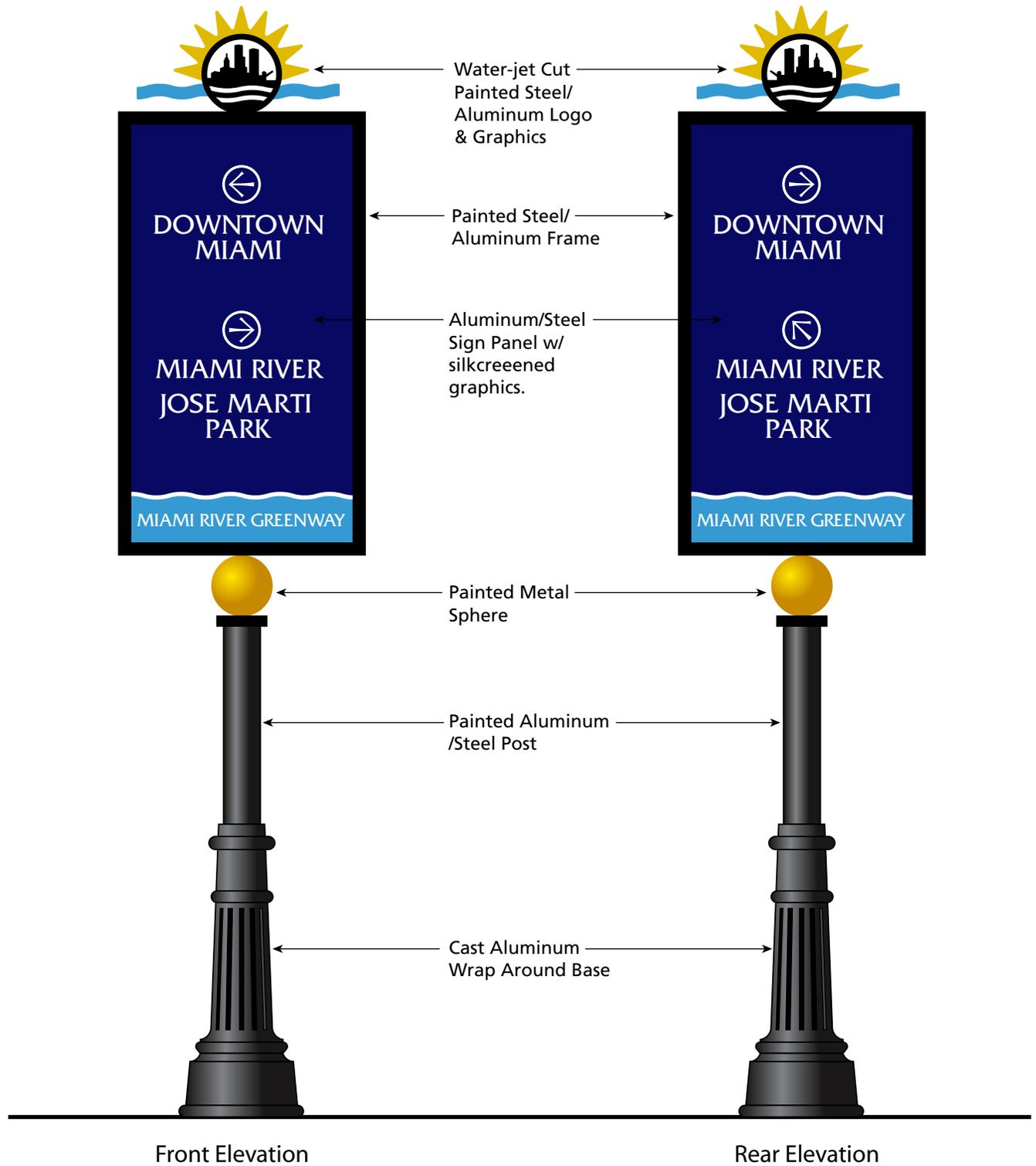
Taxes \$ _____

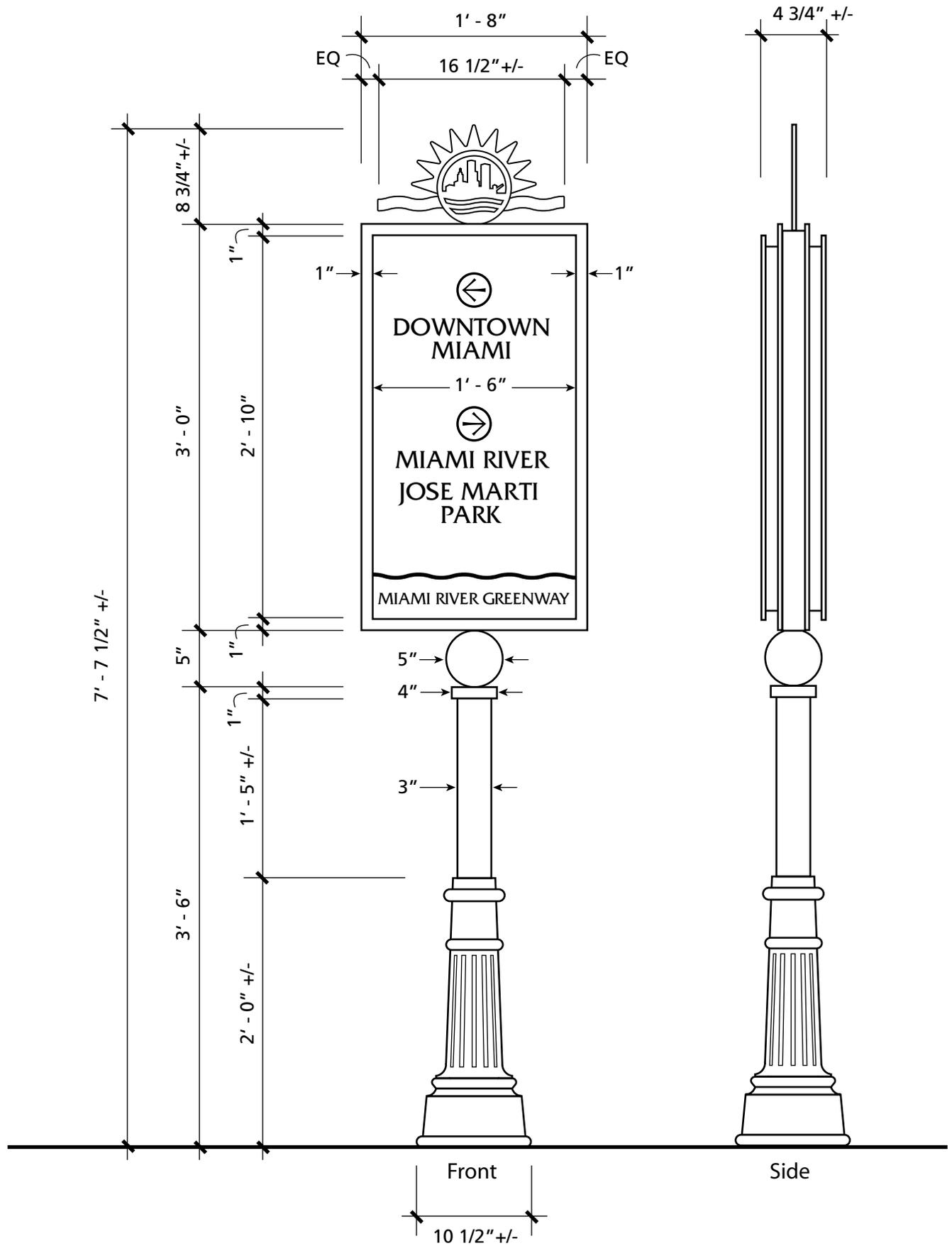
Total **\$ _____**

Notes / Comments: _____

Part Two: Sign Types



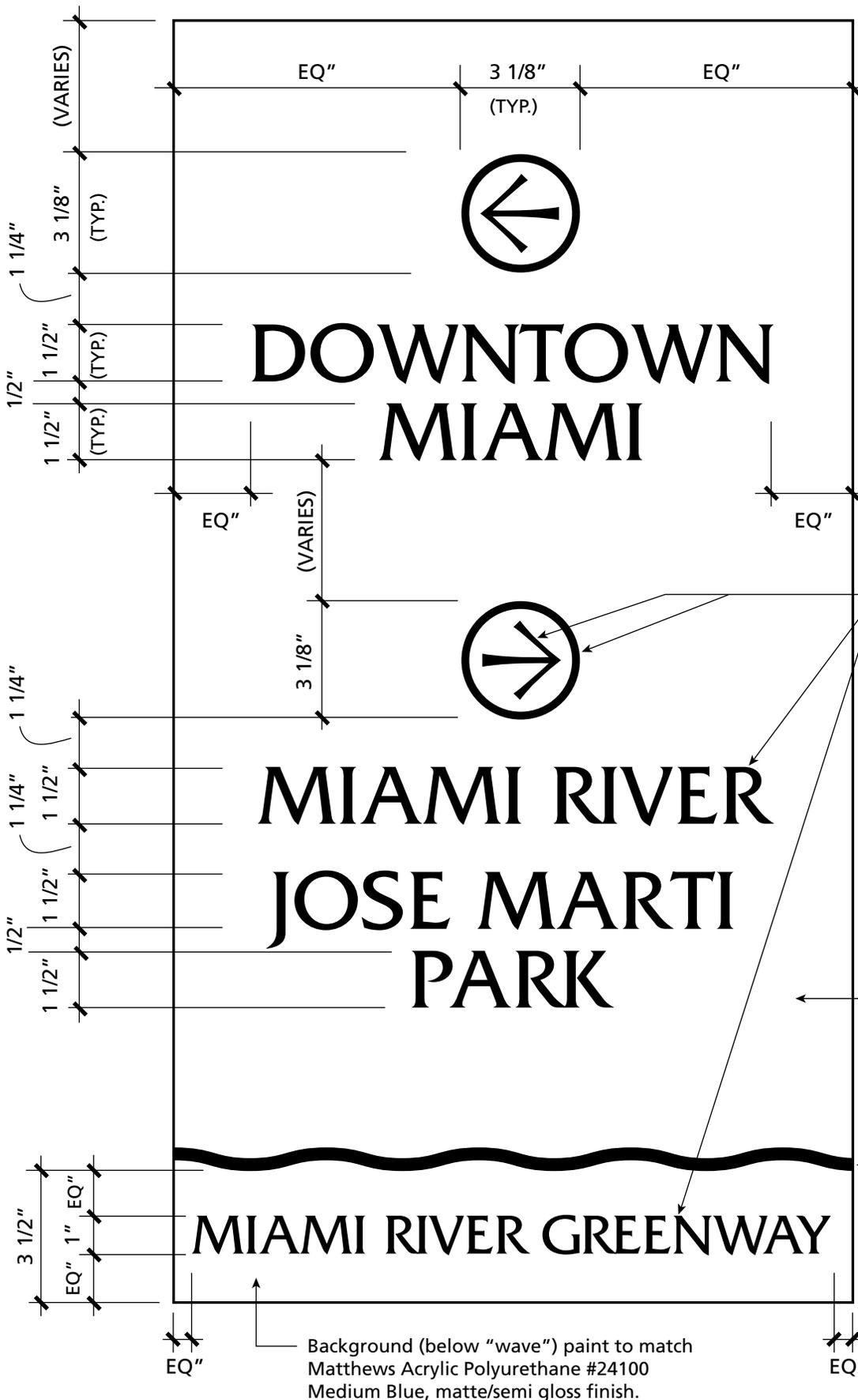




2
W-PED

Pedestrian Directional Sign - Overall Dimensions
Scale: 1" = 1'-0"

Sign Type: **W-PED**



****Note:**
 All sign finishes must be applied in accordance with the highest industry standards. Paint finish must be hard and durable, scratch and scuff resistant. Finishes should be UV resistant for harsh South Florida environment. Fabricator should recommend treatment or finish to allow easy removal of graffiti.

All text and arrow graphics, silk-screen to match Matthews Acrylic Polyurethane #11477 White, matte/semi gloss finish. Silk-screening to be clean, sharp. White to be bright and opaque, no bleed through of blue beneath. Ink to be durable and scrubable, suitable for exterior use.

Background (above "wave") paint to match Matthews Acrylic Polyurethane #29320 Dark Blue, matte/semi gloss finish.

"Wave" paint to match Matthews Acrylic Polyurethane #11477 White, matte/semi gloss finish.

Background (below "wave") paint to match Matthews Acrylic Polyurethane #24100 Medium Blue, matte/semi gloss finish.

1/4" radius on corners (typ.)

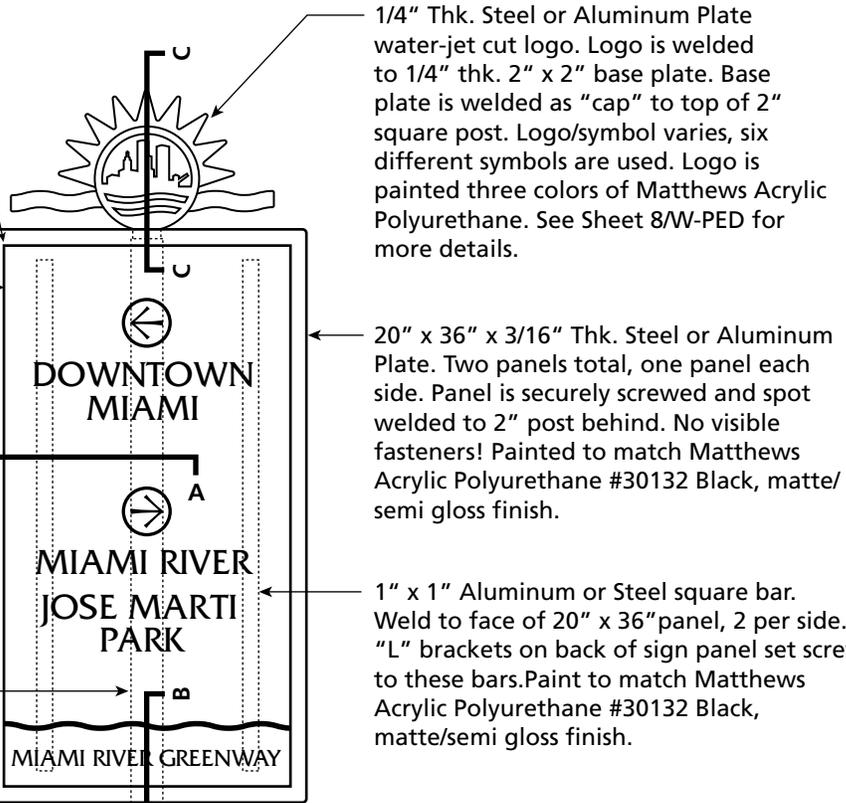
18" x 34" x 3/16" Thk. Aluminum or Steel Sign Panel. Painted & Silk-Screen finish. One panel each side. Message changes each location. Vertical "L" brackets welded to back of panel for mounting. No visible fasteners! Back and edges paint to match Matthews Acrylic Polyurethane #30132 Black, matte/semi gloss finish. See sheet 3/W-PED for sign face colors & dimensions. See sheets 11/W-PED - 18/W-PED for sign messages and locations.

2"+/- Square Painted Aluminum or Steel heavy-wall post. Post is securely welded to inside of 3" round post. Flush cap with water-jet cut logo is welded to top to prevent water intrusion. Paint to match Matthews Acrylic Polyurethane #30132 Black, matte/semi gloss finish.

1" tall x 4" dia. Aluminum or Steel "cap". Welded to top of 3" post, and to sides of 2" post that penetrates it. Paint to match Matthews Acrylic Polyurethane #30132 Black, matte/semi gloss finish.

****Note:**
Section A-A -- see Sheet 5/W-PED
Section B-B -- see Sheet 6/W-PED

Steel or Aluminum post set into sign footer so that base is flush with pavement. Footer as req'd to meet all local and national codes.



1/4" Thk. Steel or Aluminum Plate water-jet cut logo. Logo is welded to 1/4" thk. 2" x 2" base plate. Base plate is welded as "cap" to top of 2" square post. Logo/symbol varies, six different symbols are used. Logo is painted three colors of Matthews Acrylic Polyurethane. See Sheet 8/W-PED for more details.

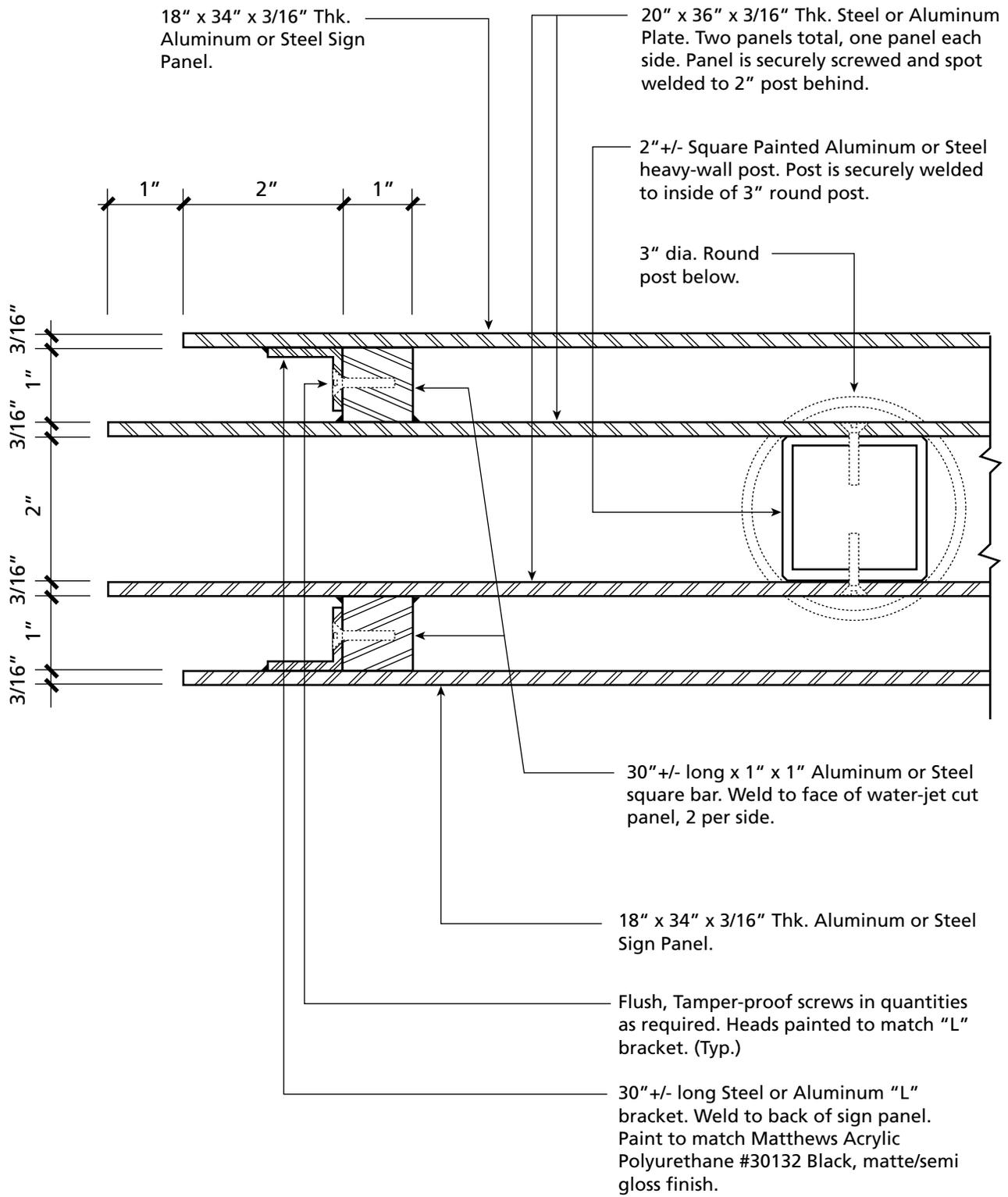
20" x 36" x 3/16" Thk. Steel or Aluminum Plate. Two panels total, one panel each side. Panel is securely screwed and spot welded to 2" post behind. No visible fasteners! Painted to match Matthews Acrylic Polyurethane #30132 Black, matte/semi gloss finish.

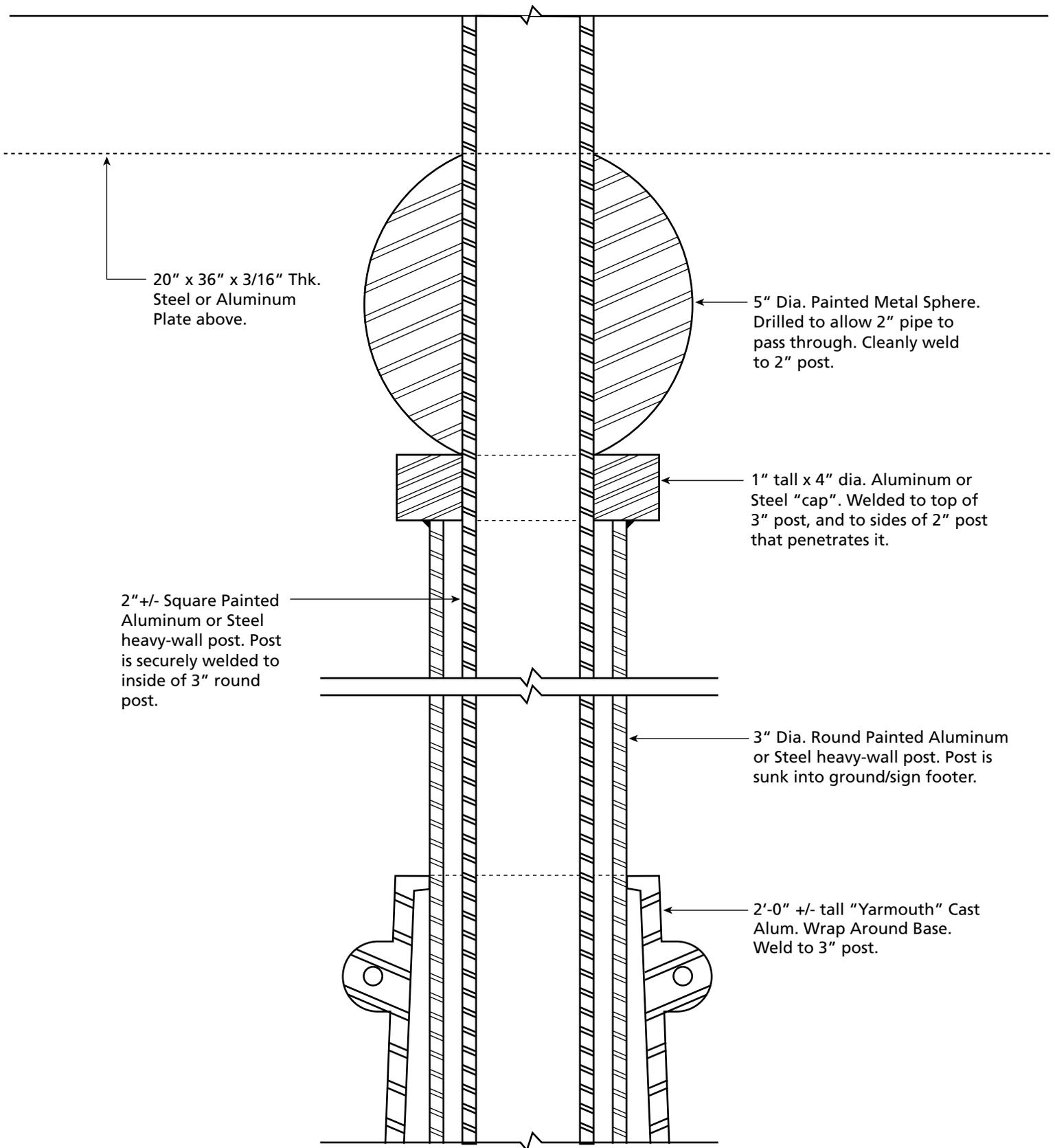
1" x 1" Aluminum or Steel square bar. Weld to face of 20" x 36" panel, 2 per side. "L" brackets on back of sign panel set screw to these bars. Paint to match Matthews Acrylic Polyurethane #30132 Black, matte/semi gloss finish.

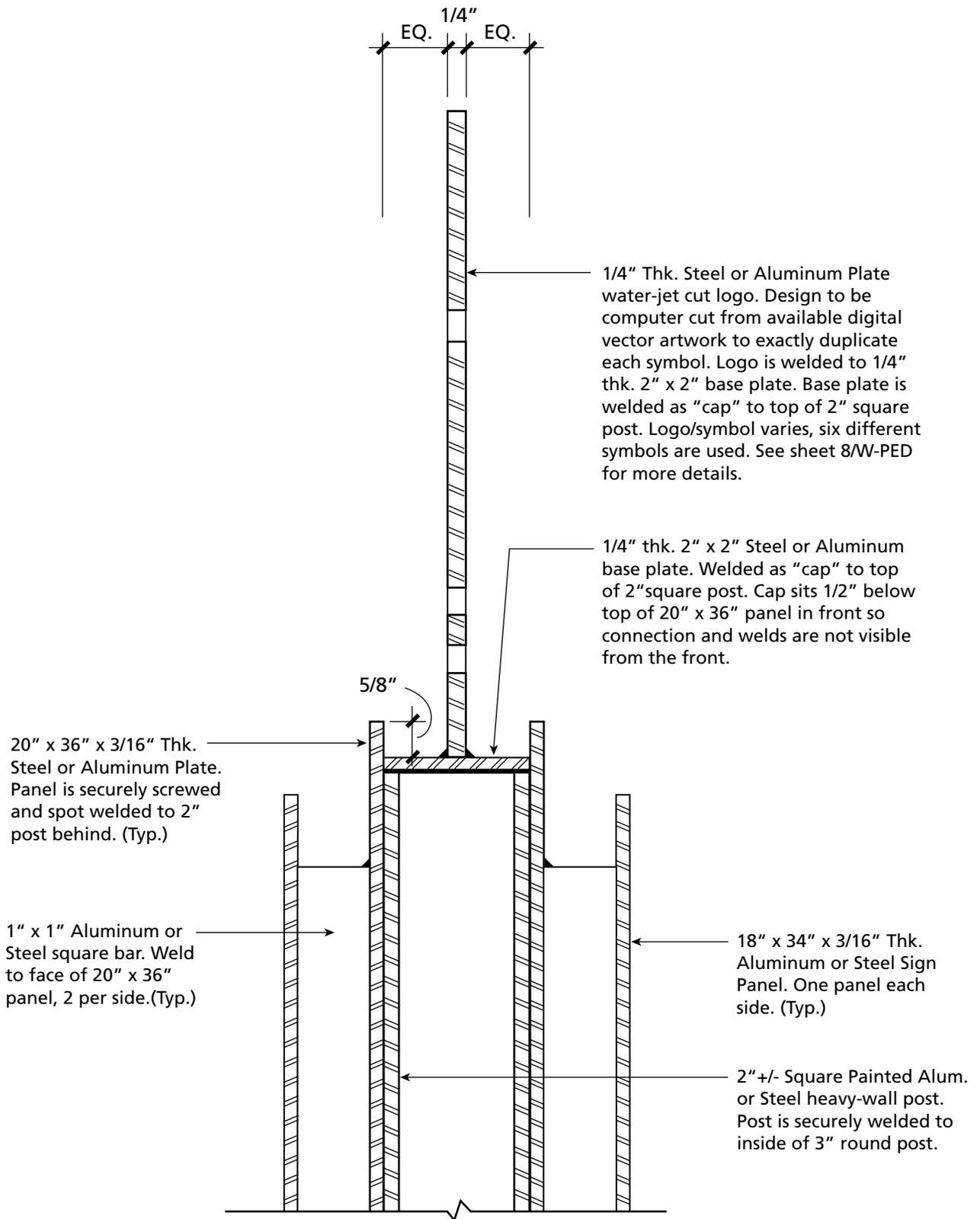
5" Dia. Painted Metal Sphere. Drilled to allow 2" pipe to pass through. Cleanly weld to 2" post. Paint to match Matthews Acrylic Polyurethane #30133/18645 Metallic Gold, matte/semi gloss finish.

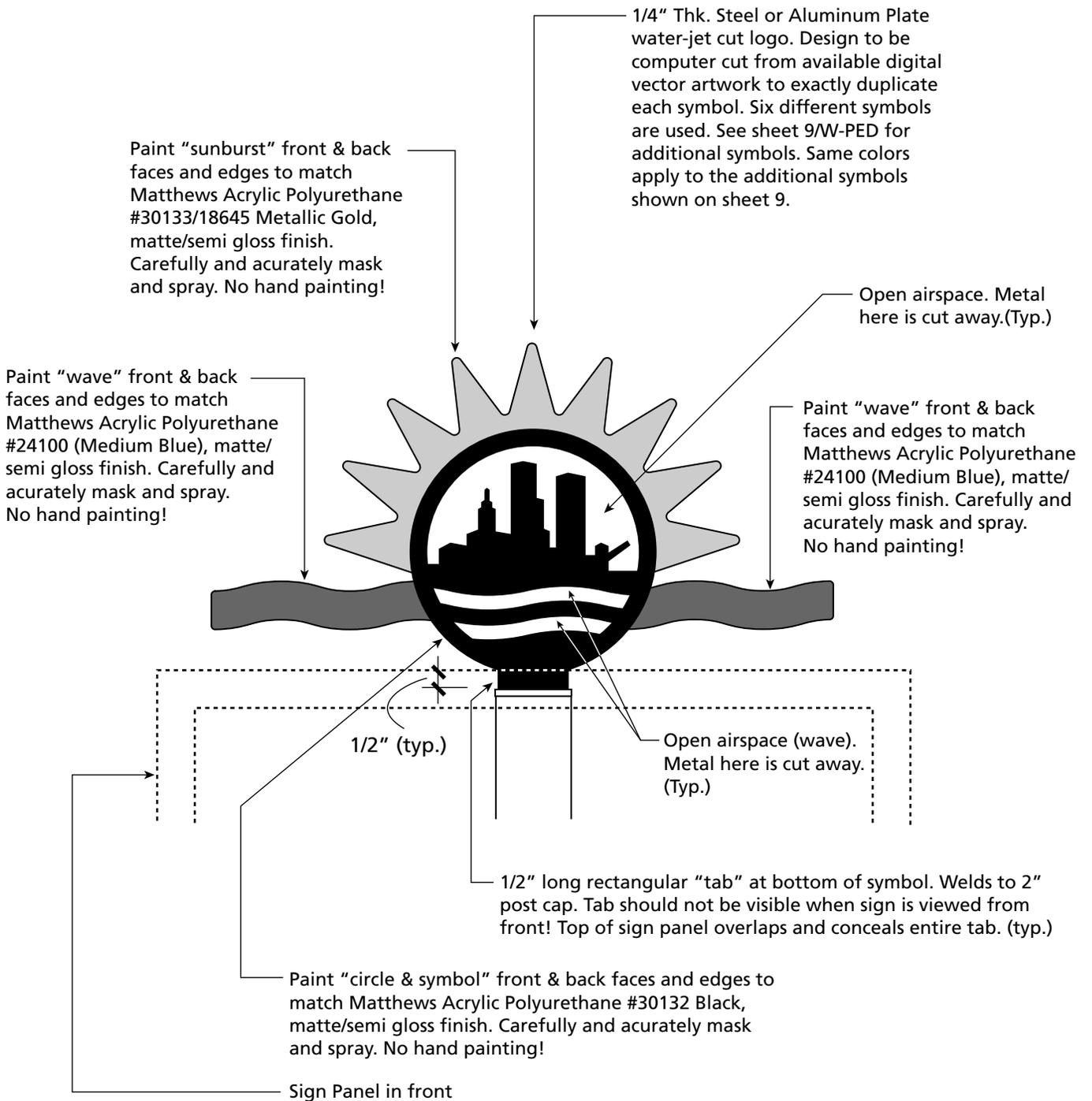
3" Dia. Round Painted Aluminum or Steel heavy-wall post. Post is sunk into ground/sign footer. Paint to match Matthews Acrylic Polyurethane #30132 Black, matte/semi gloss finish.

2'-0" +/- tall "Yarmouth" Cast Alum. Wrap Around Base. Weld to 3" post. Paint to match Matthews Acrylic Polyurethane #30132 Black, matte/semi gloss finish. Ref: Alloy Castings Co., Inc. 151 West Union Street East Bridgewater, MA 02333-0473 Phone (508) 378-2541 Fax (508) 378-1240 www.alloycastings.com



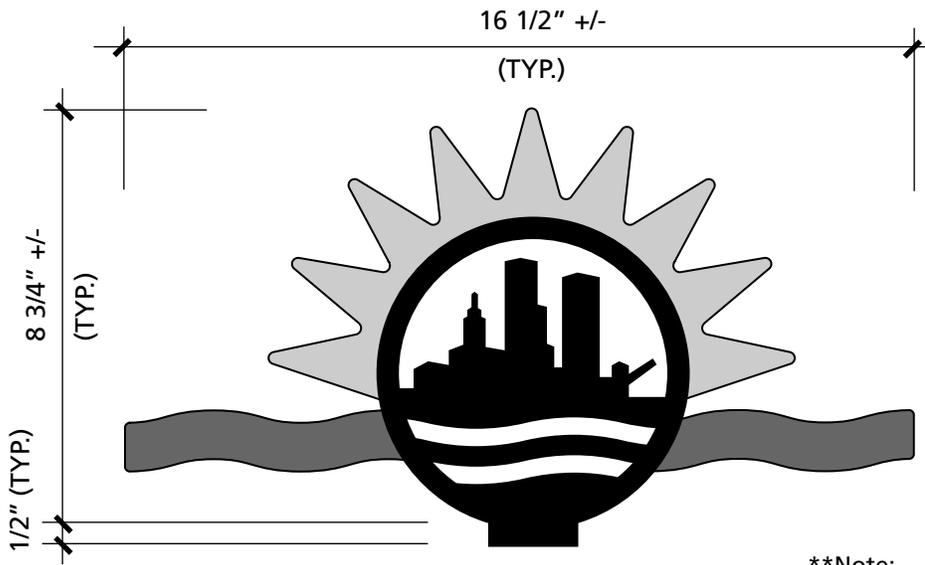






****Note:**

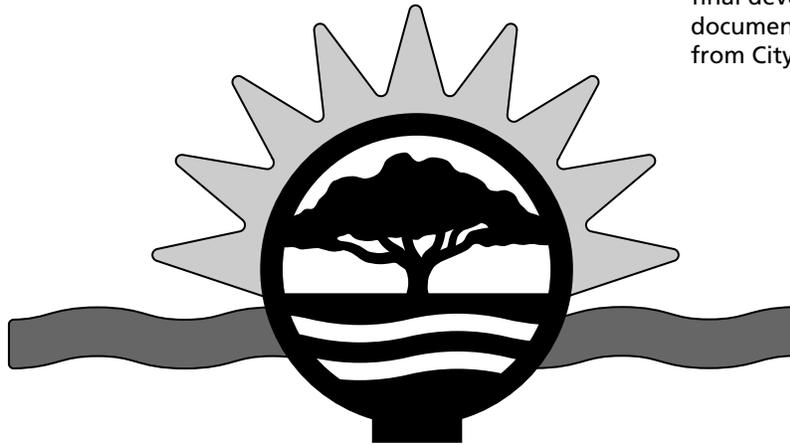
Symbol is water-jet cut out of (1) piece of metal plate. Color breaks are achieved by carefully masking and spraying "waves" and "sunburst". Router/laser cut masking from digital files should be used for precision. (1) sample must be supplied and approved for quality of metalwork and paint finish prior to full production. See sheets 9/W-PED and 10/W-PED for additional symbol layouts.



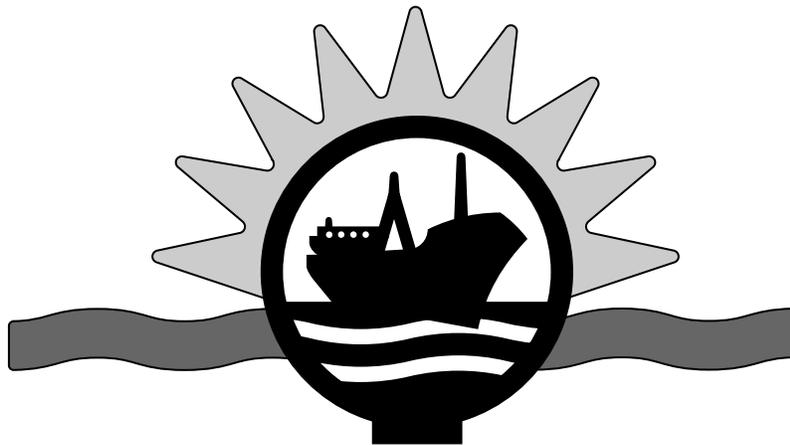
Symbol A

****Note:**

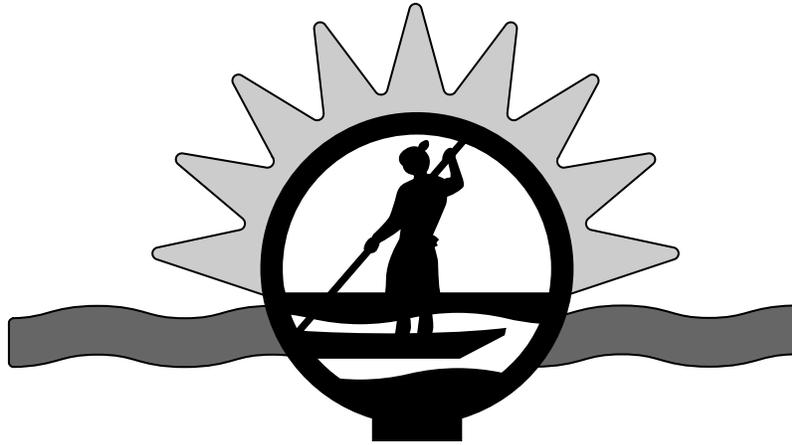
See sheet 8/W-PED for all specifications.
 See sheet 10/W-PED for additional symbols. Symbols pictured were in final development at time of spec. document. Please obtain final versions from City prior to manufacture.



Symbol B



Symbol C

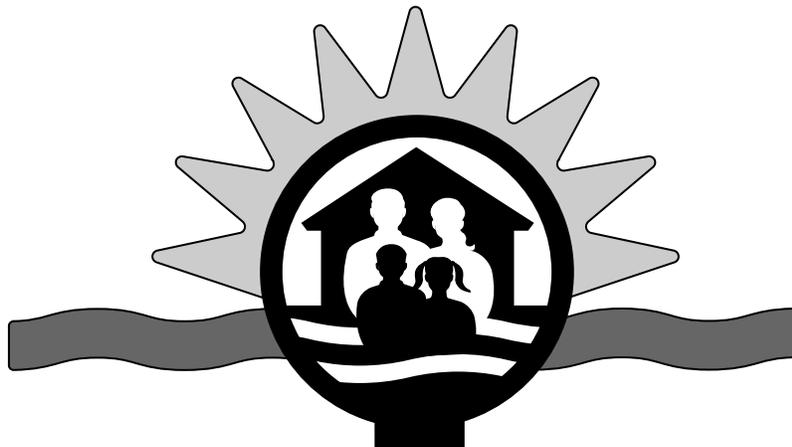


Symbol D

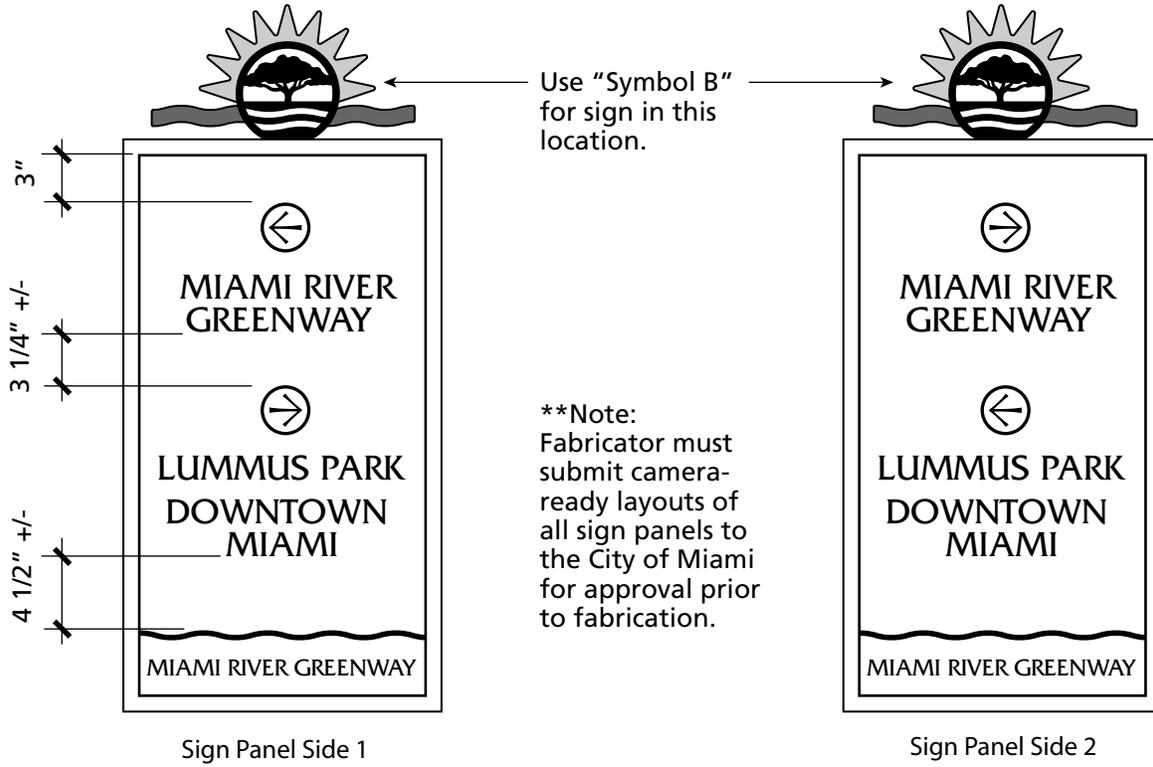
****Note:**
See sheet 8/W-PED for all specifications.
See sheet 9/W-PED for additional
symbols. Symbols pictured were in
final development at time of spec.
document. Please obtain final versions
from City prior to manufacture.



Symbol E



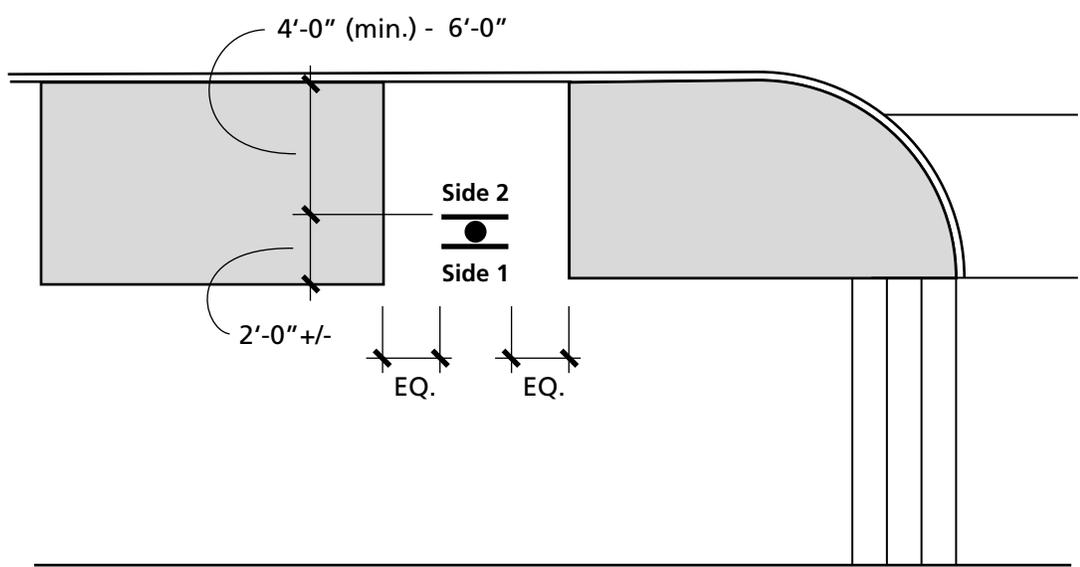
Symbol F



Sign Panel Side 1

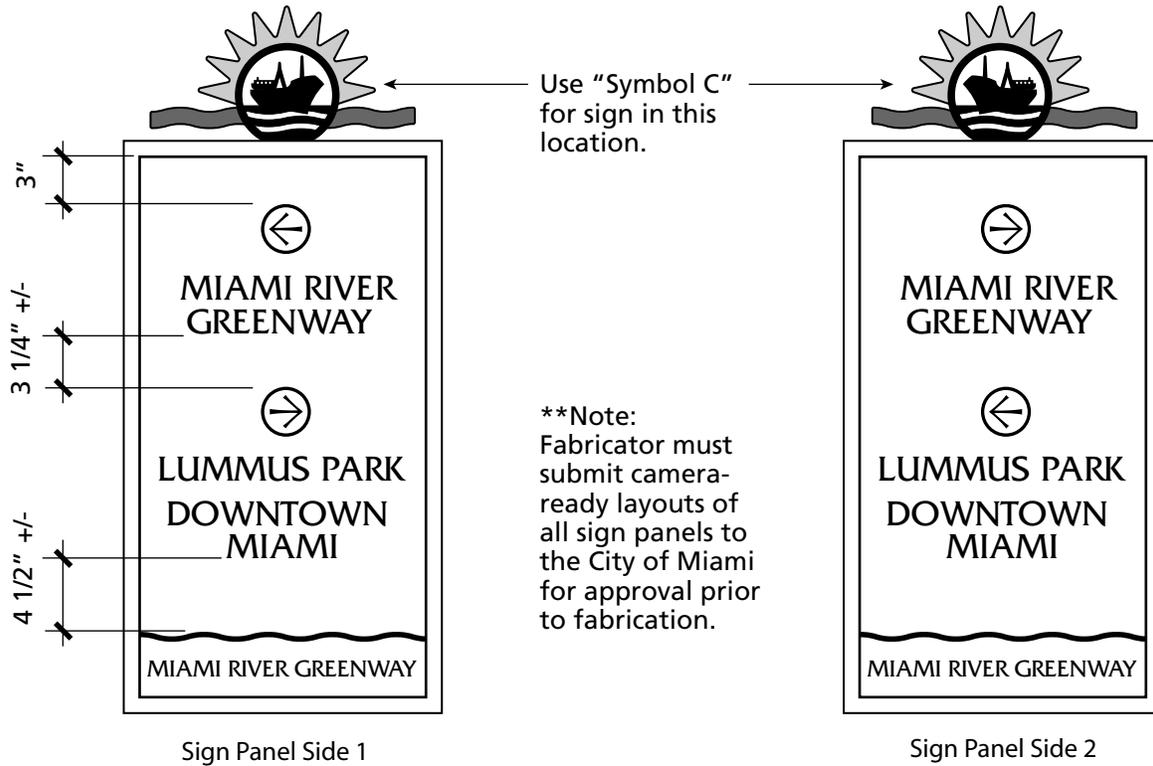
Sign Panel Side 2

Sign Message W-PED-01

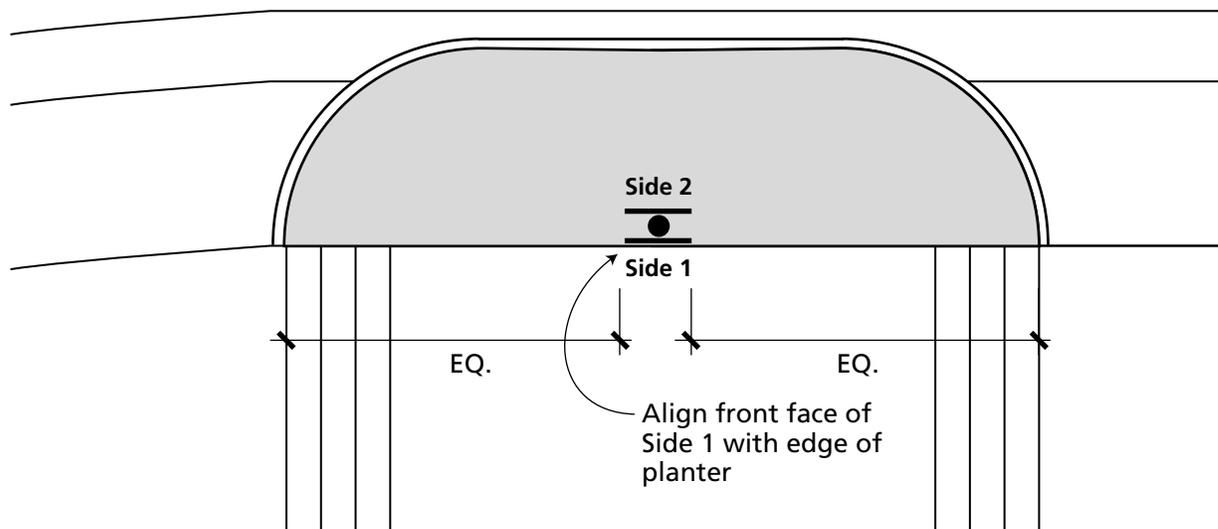


Sign Location W-PED-01

****Note:**
See "Signing and Marking" plans for site sign locations. Diagram here is for install dimensions and orientation.

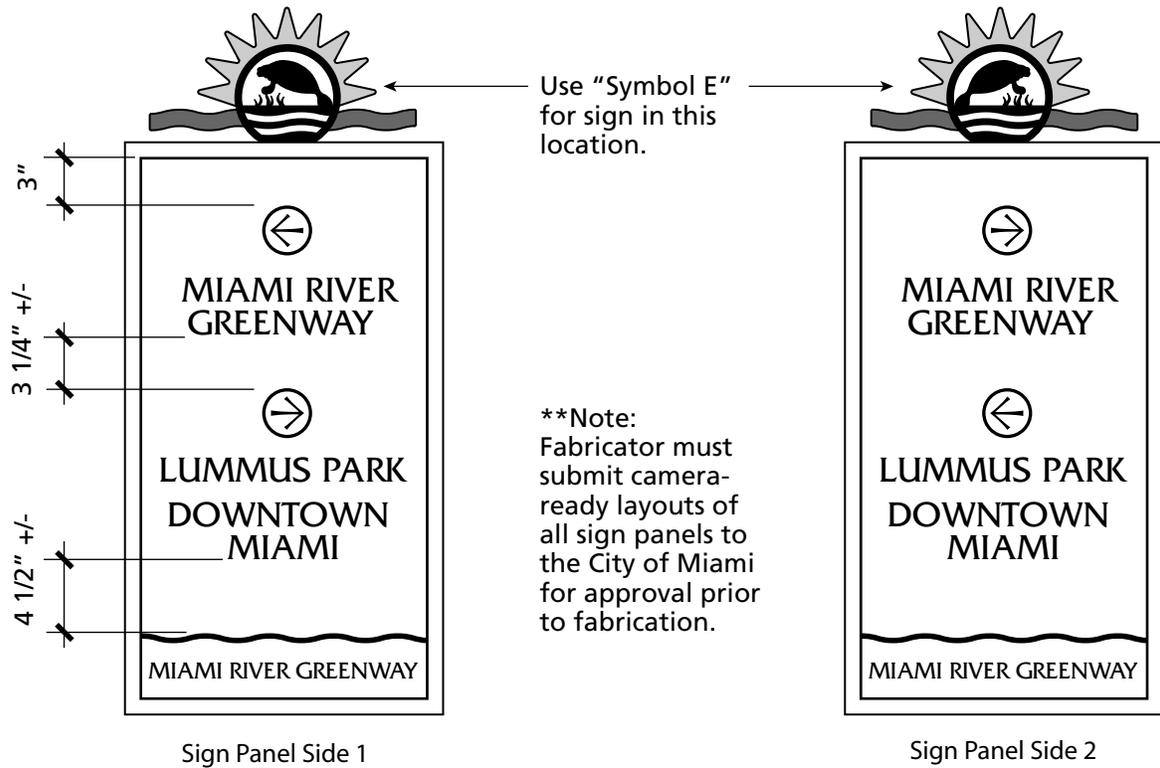


Sign Message W-PED-02

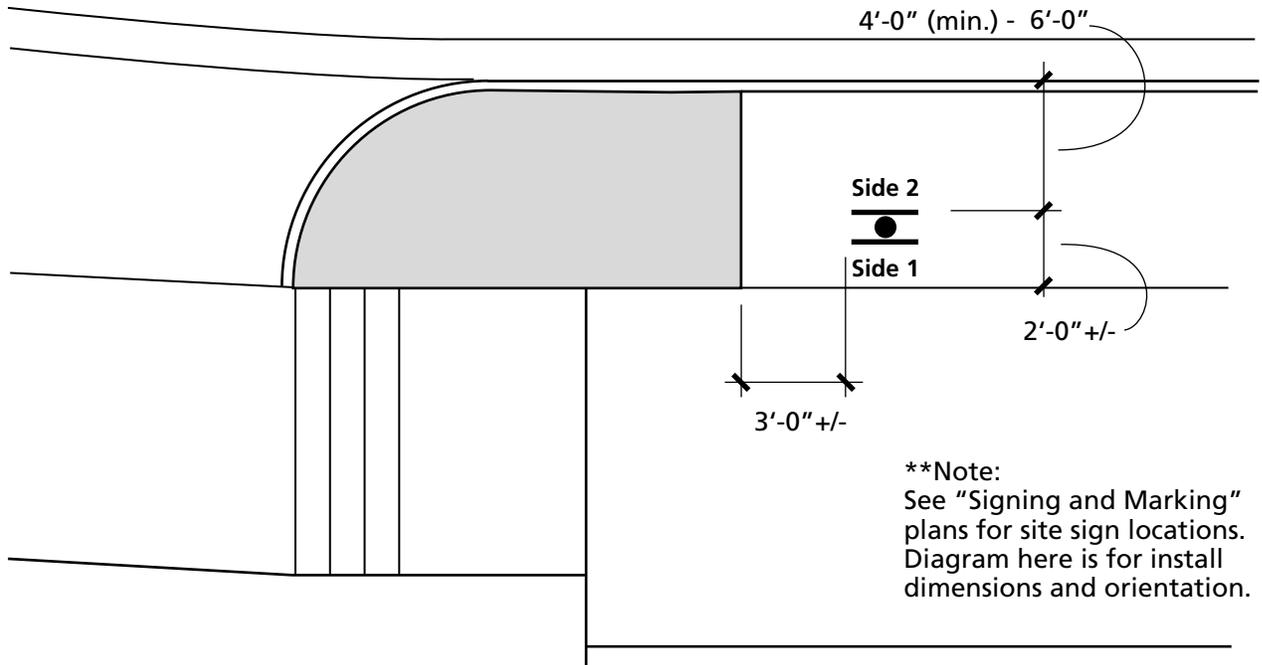


Sign Location W-PED-02

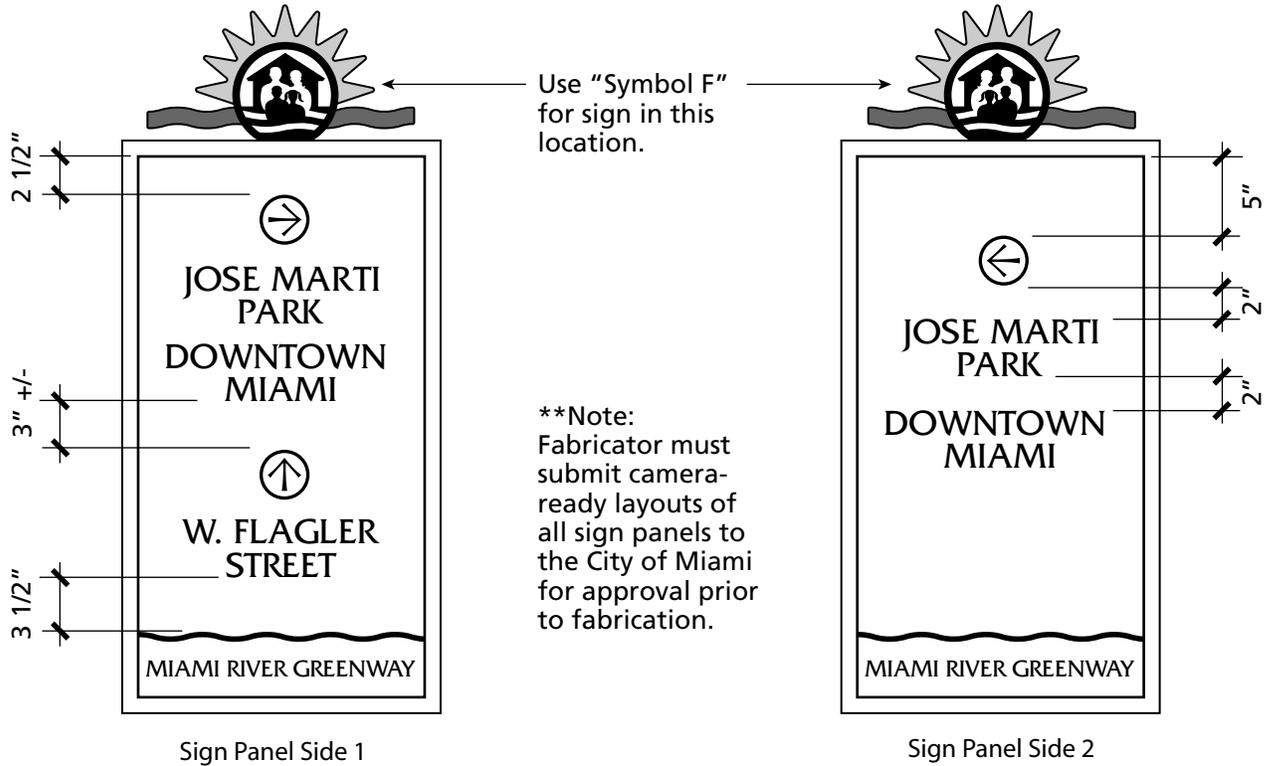
**Note: See "Signing and Marking" plans for site sign locations. Diagram here is for install dimensions and orientation.



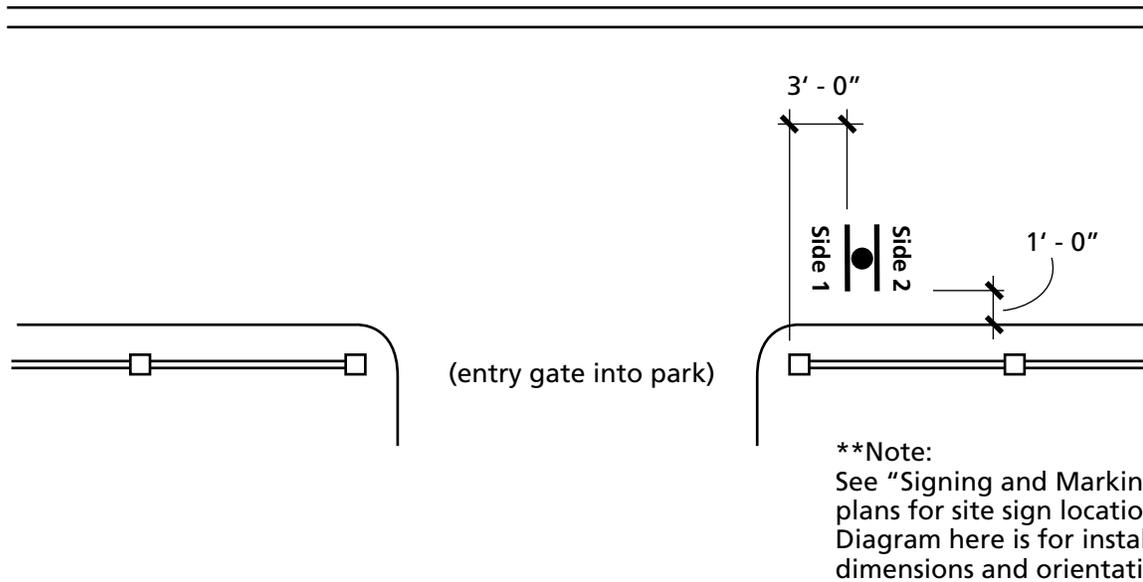
Sign Message W-PED-03



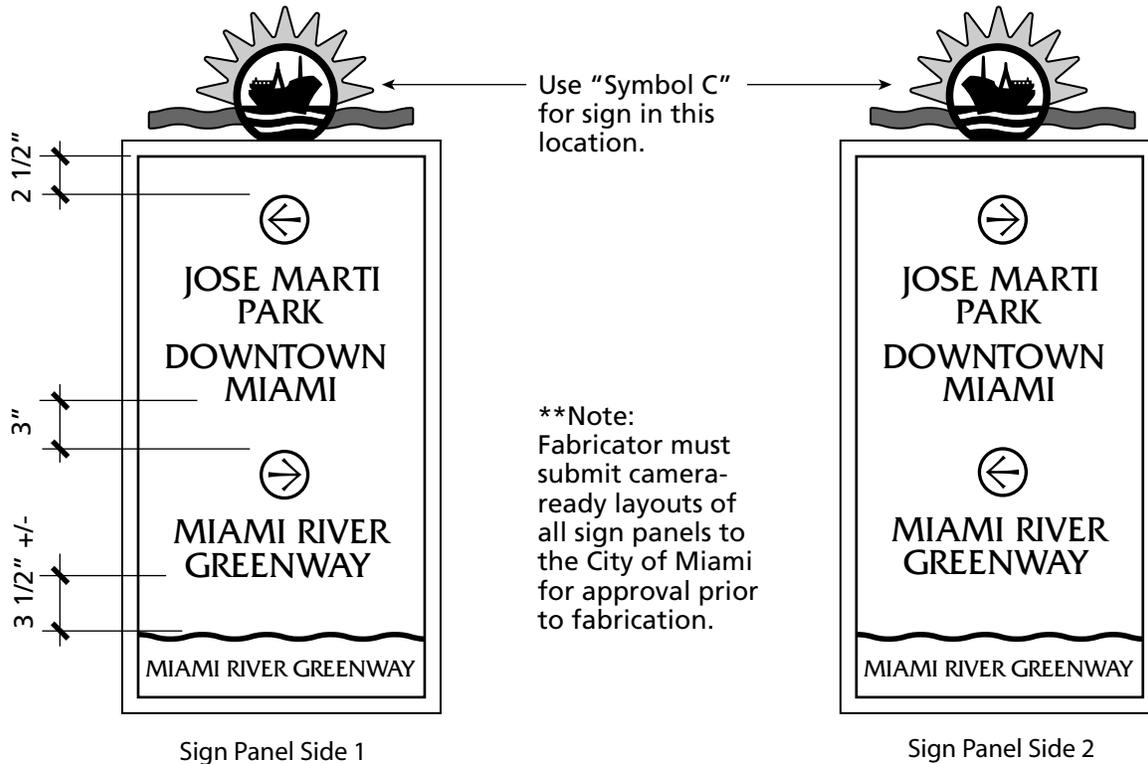
Sign Location W-PED-03



Sign Message W-PED-04



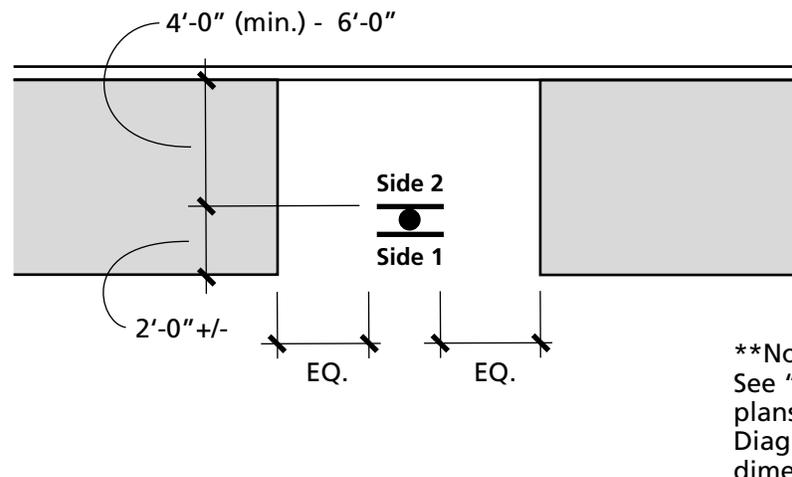
Sign Location W-PED-04



Sign Panel Side 1

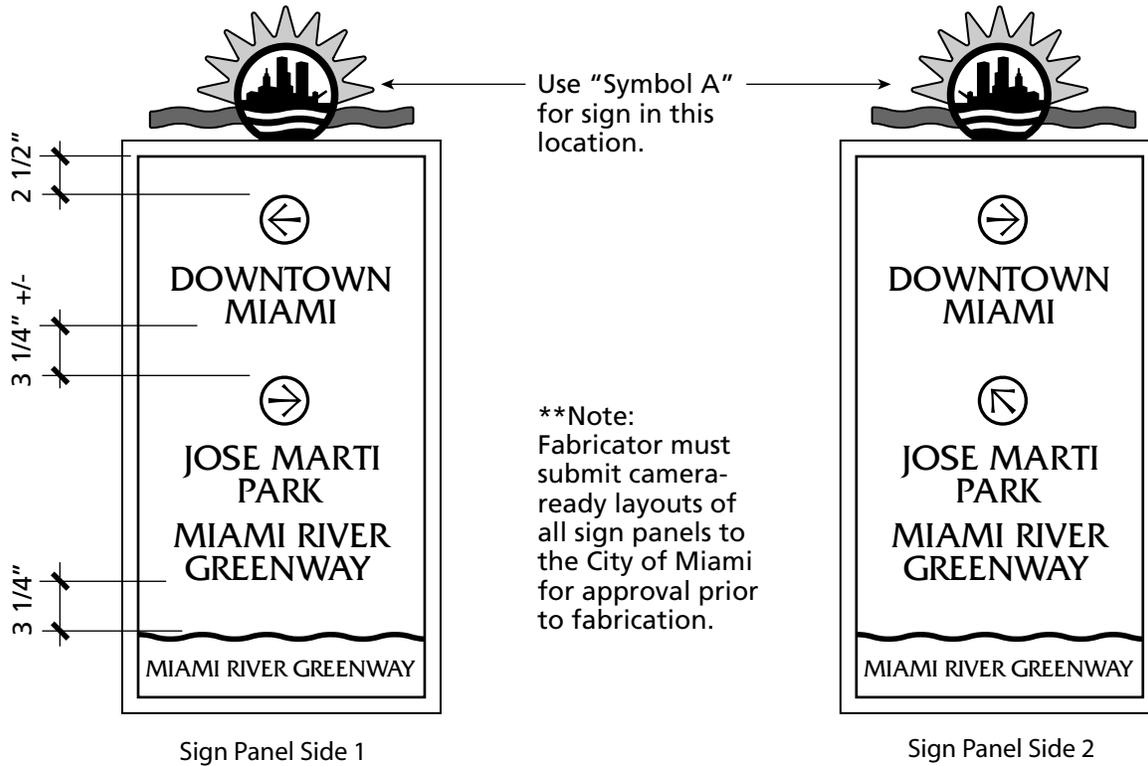
Sign Panel Side 2

Sign Message W-PED-05

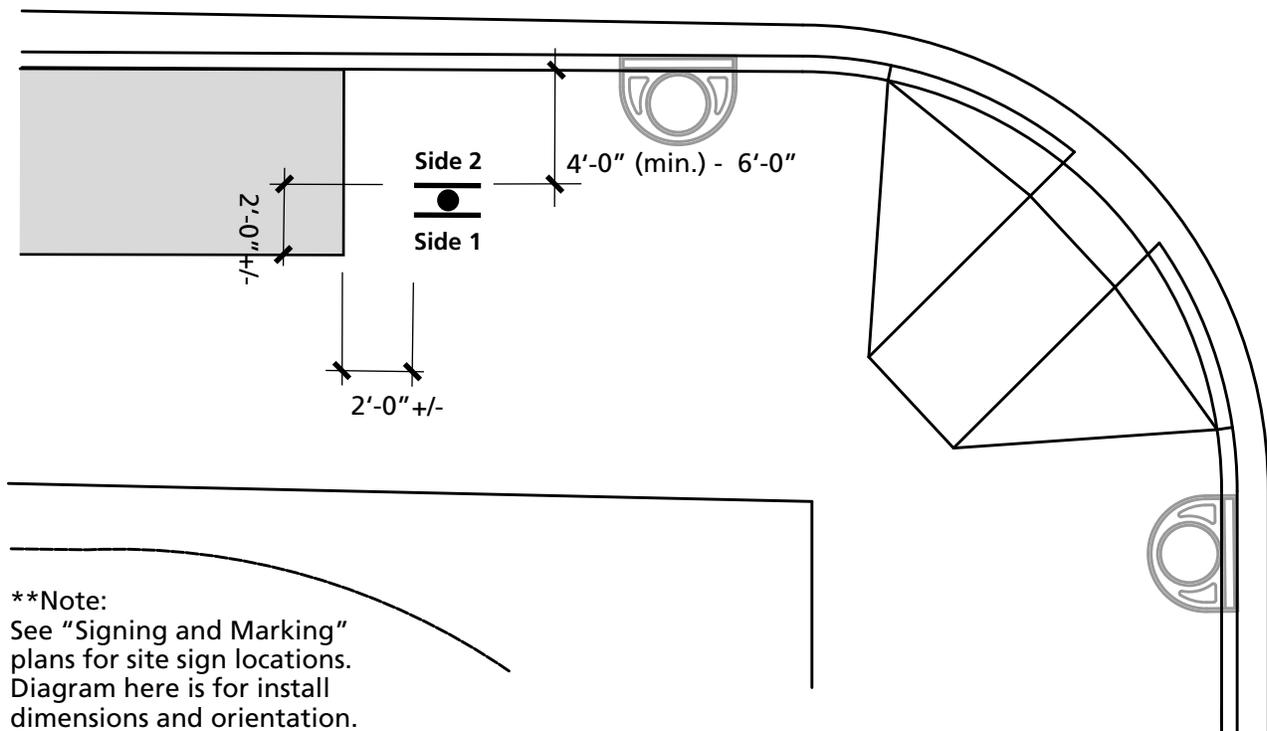


****Note:**
See "Signing and Marking" plans for site sign locations. Diagram here is for install dimensions and orientation.

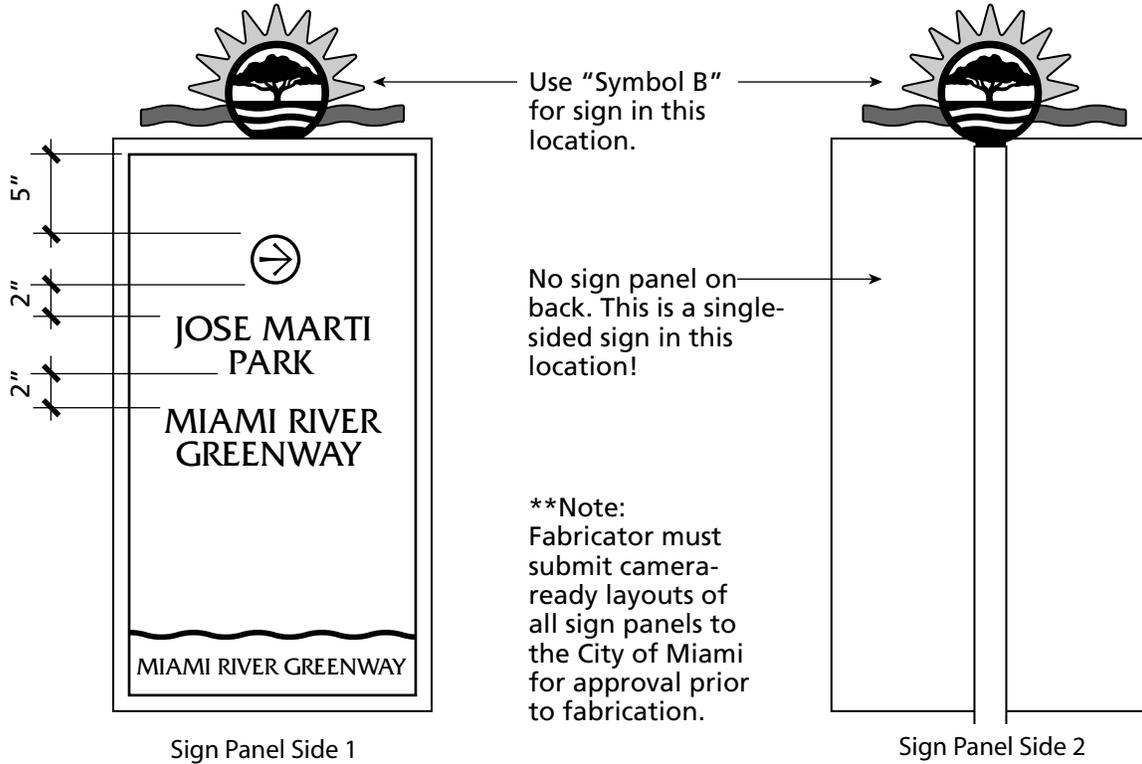
Sign Location W-PED-05



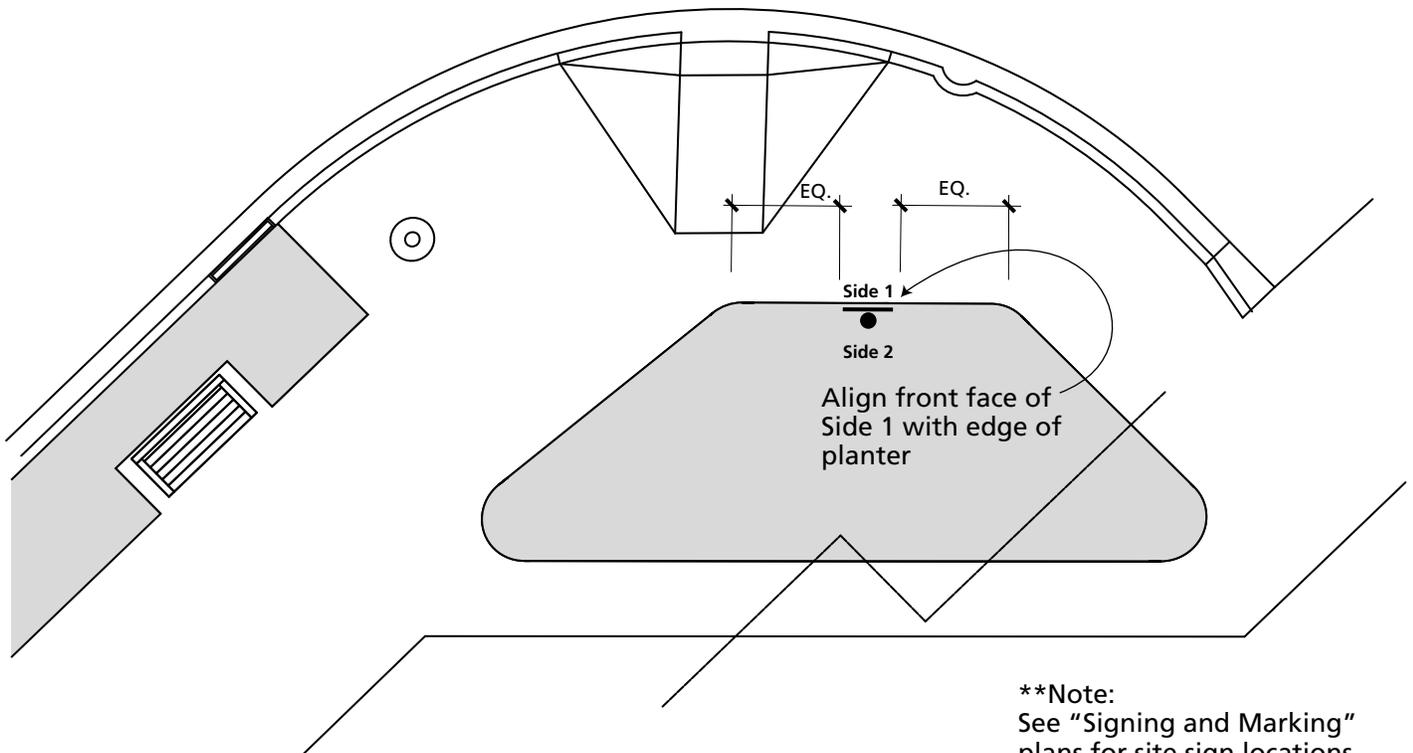
Sign Message W-PED-06



Sign Location W-PED-06

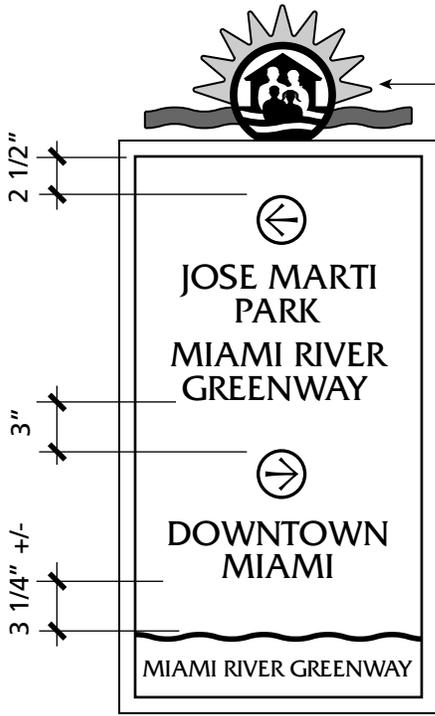


Sign Message W-PED-07



Sign Location W-PED-07

**Note:
See "Signing and Marking" plans for site sign locations. Diagram here is for install dimensions and orientation.

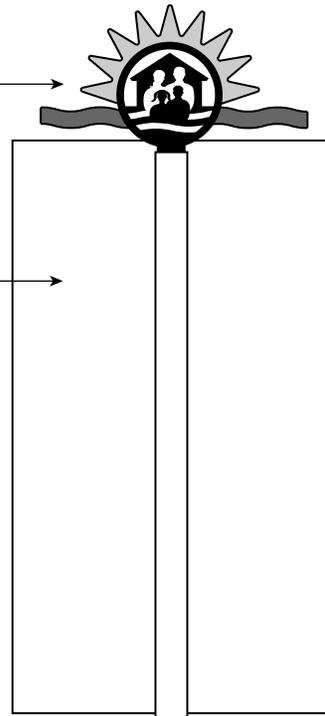


Sign Panel Side 1

Use "Symbol F" for sign in this location.

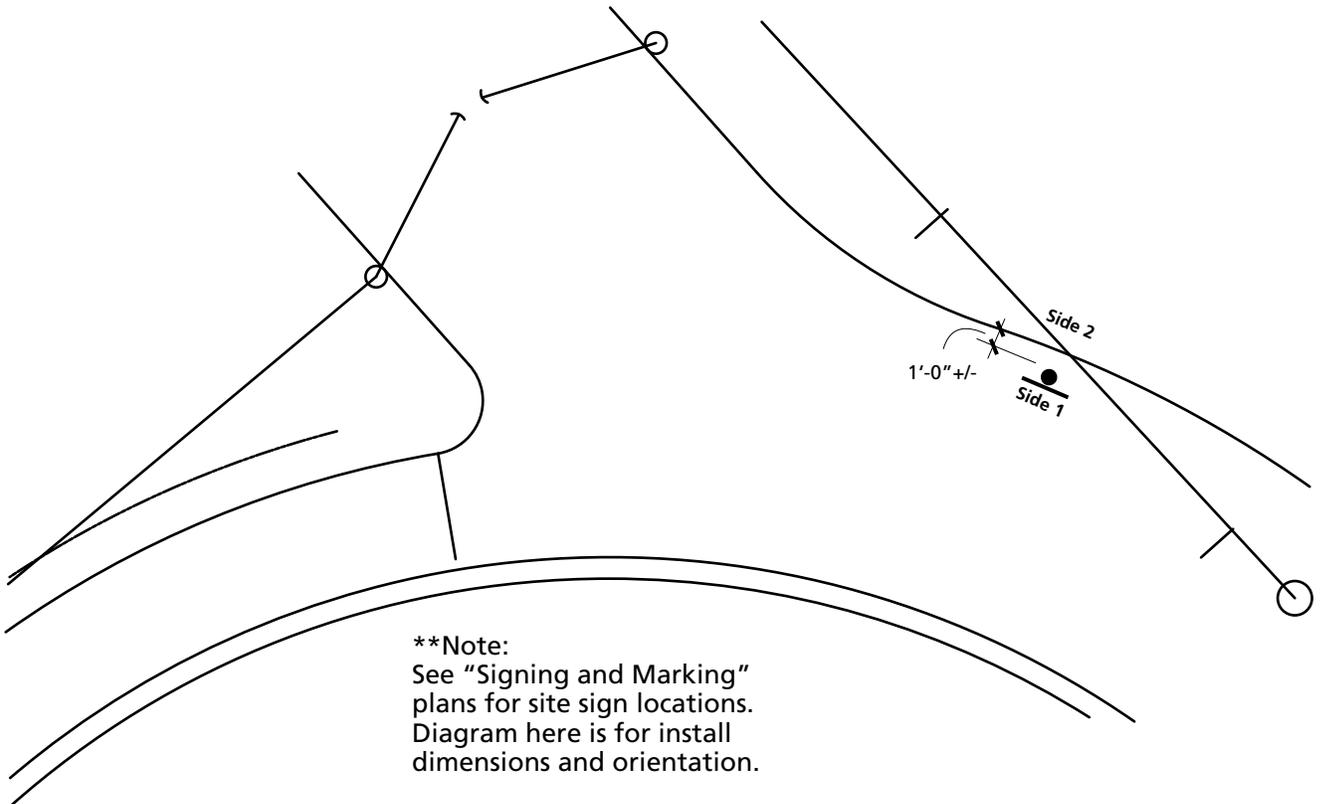
No sign panel on back. This is a single-sided sign in this location!

****Note:**
Fabricator must submit camera-ready layouts of all sign panels to the City of Miami for approval prior to fabrication.



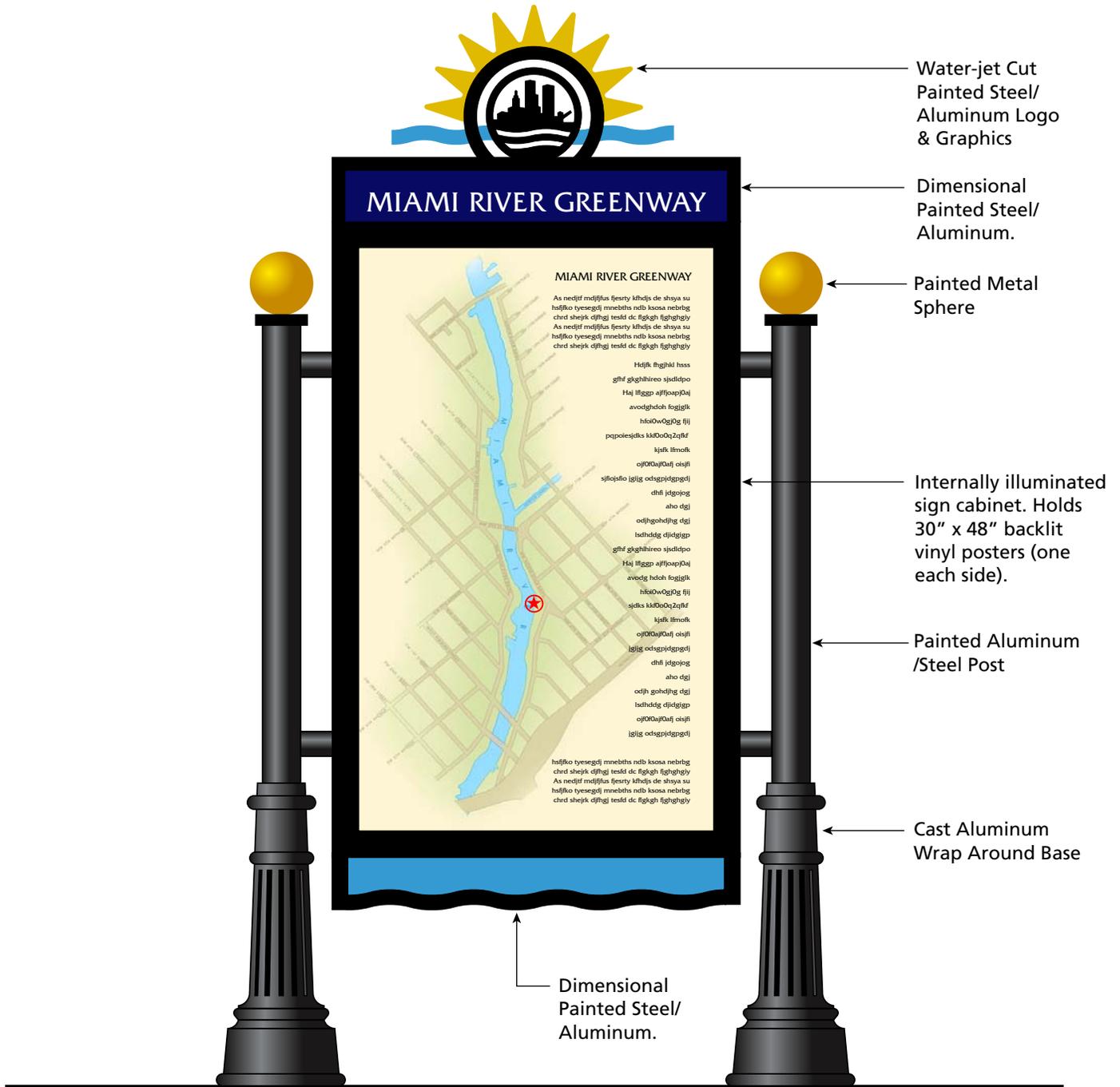
Sign Panel Side 2

Sign Message W-PED-08



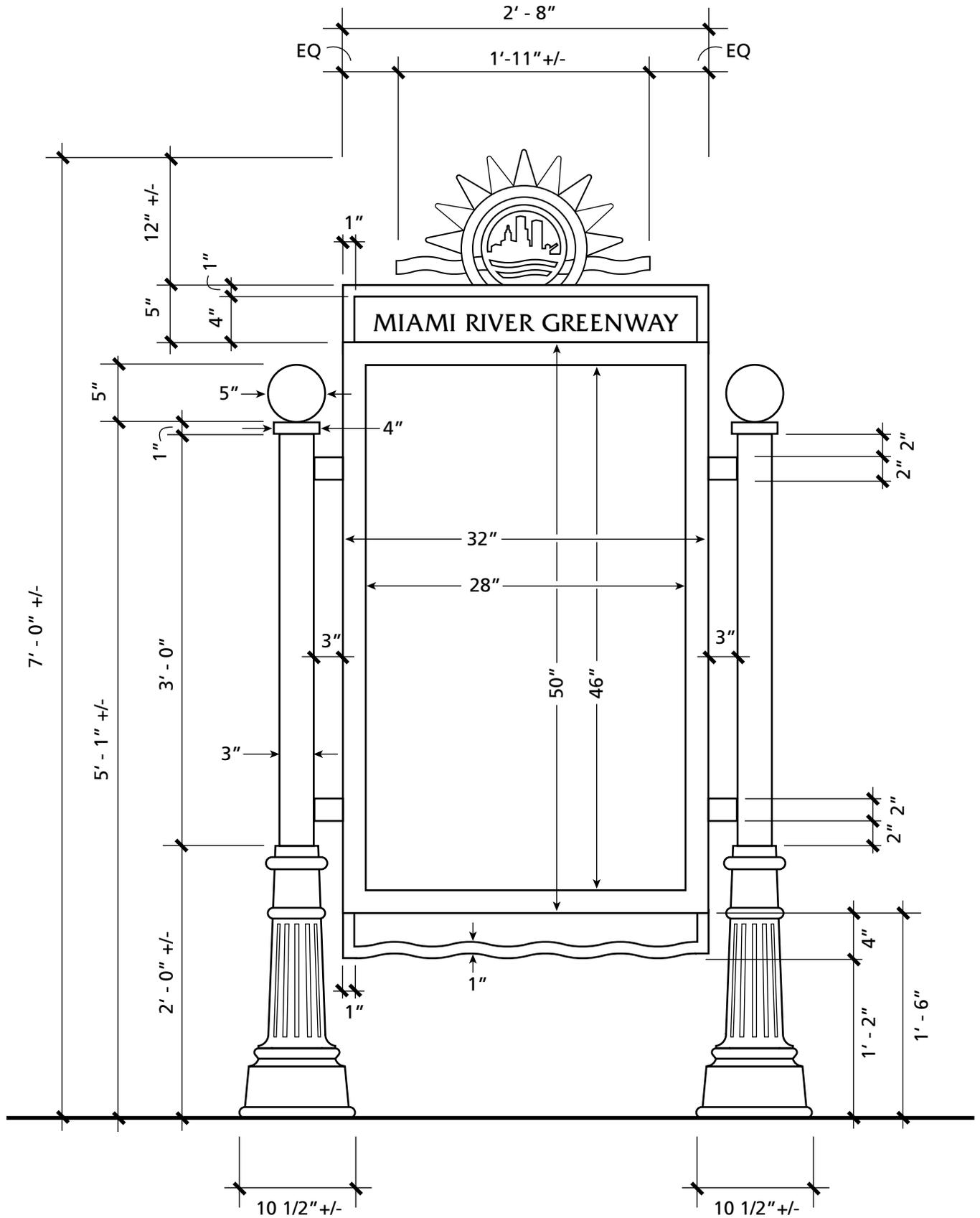
****Note:**
See "Signing and Marking" plans for site sign locations. Diagram here is for install dimensions and orientation.

Sign Location W-PED-08



Front Elevation

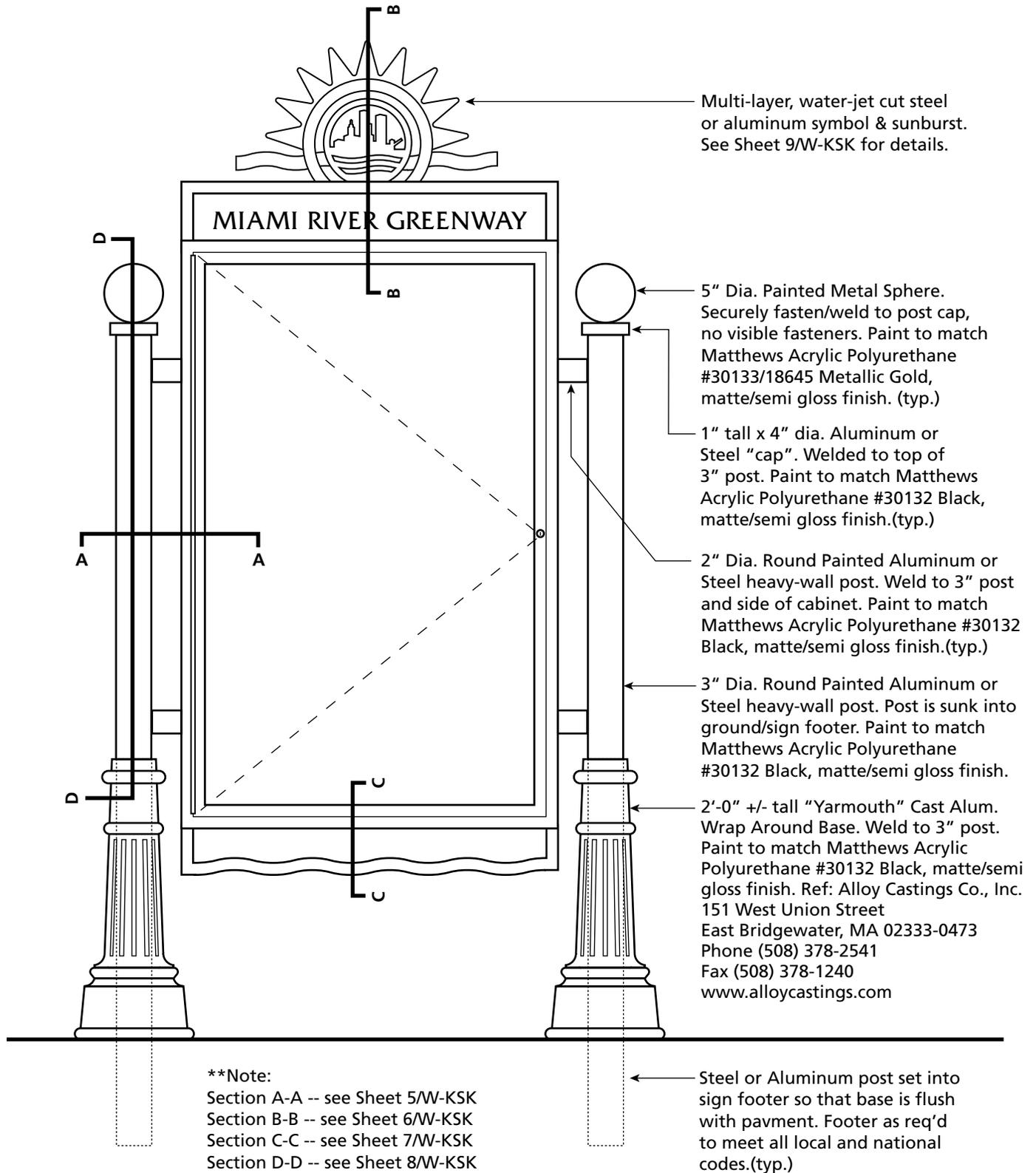
****Note:**
This is a double-sided sign.
Back elevation is similar.

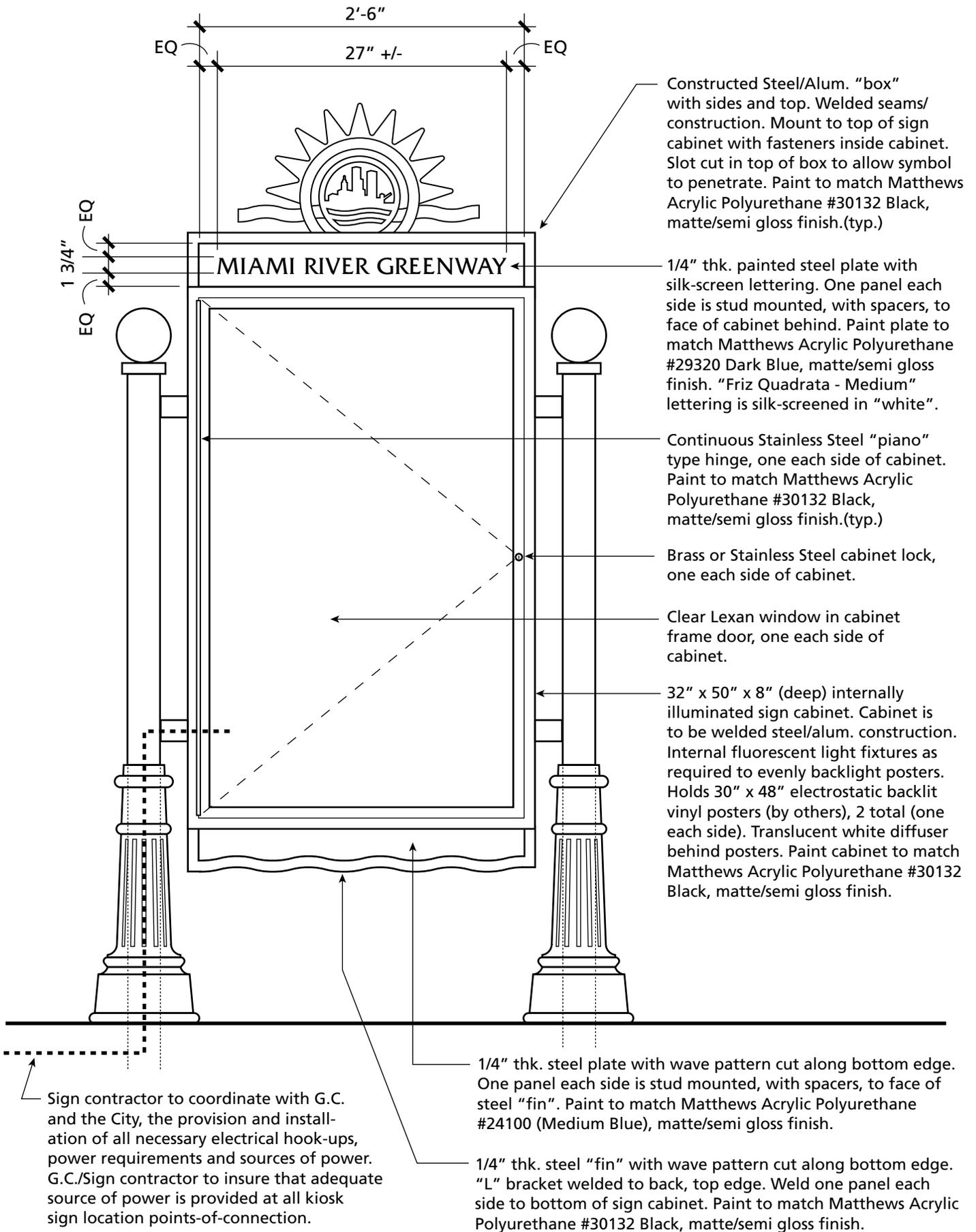


2
 W-KSK

Pedestrian Kiosk - Overall Dimensions
 Scale: 1" = 1'-0"

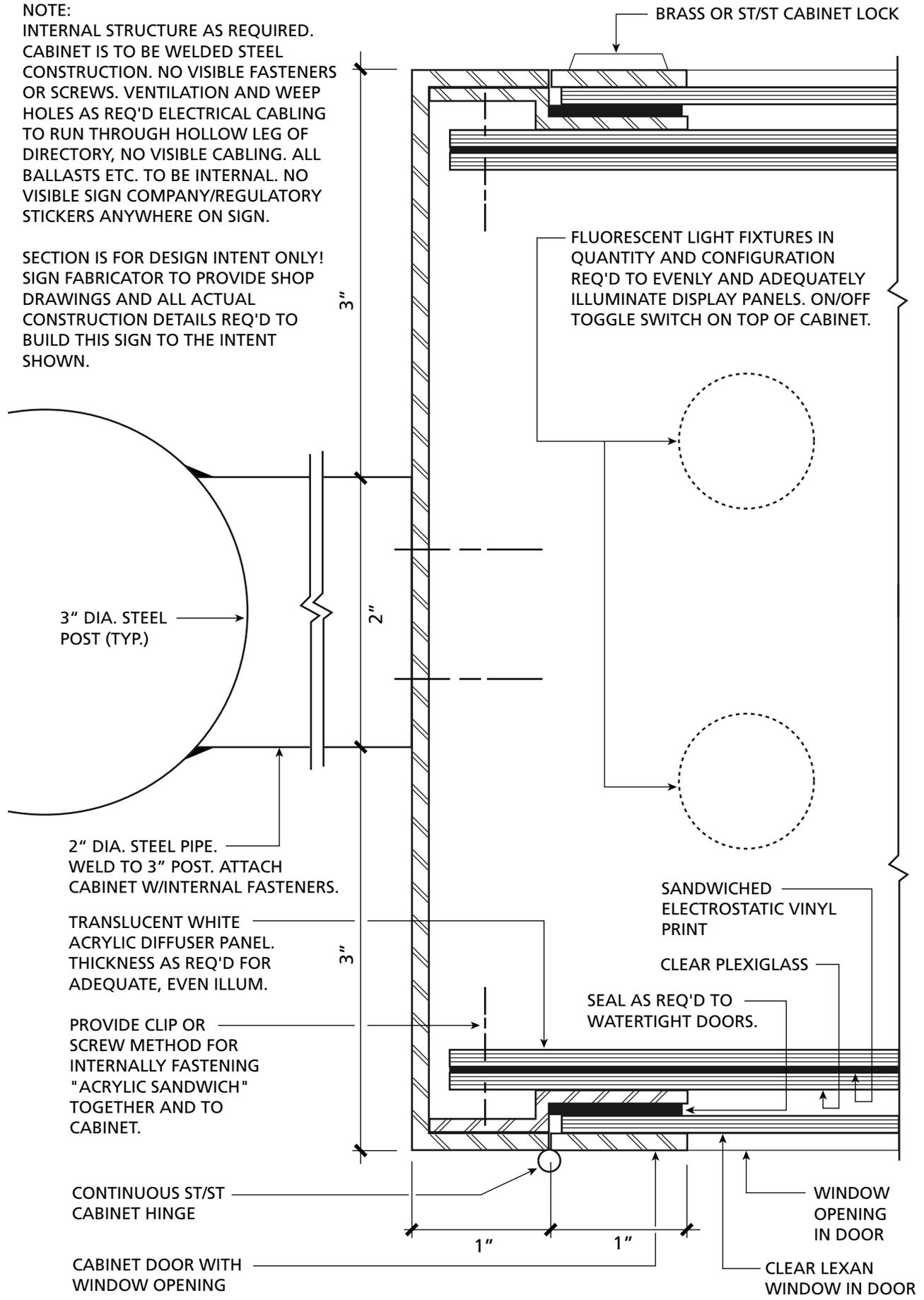
Sign Type: **W-KSK**

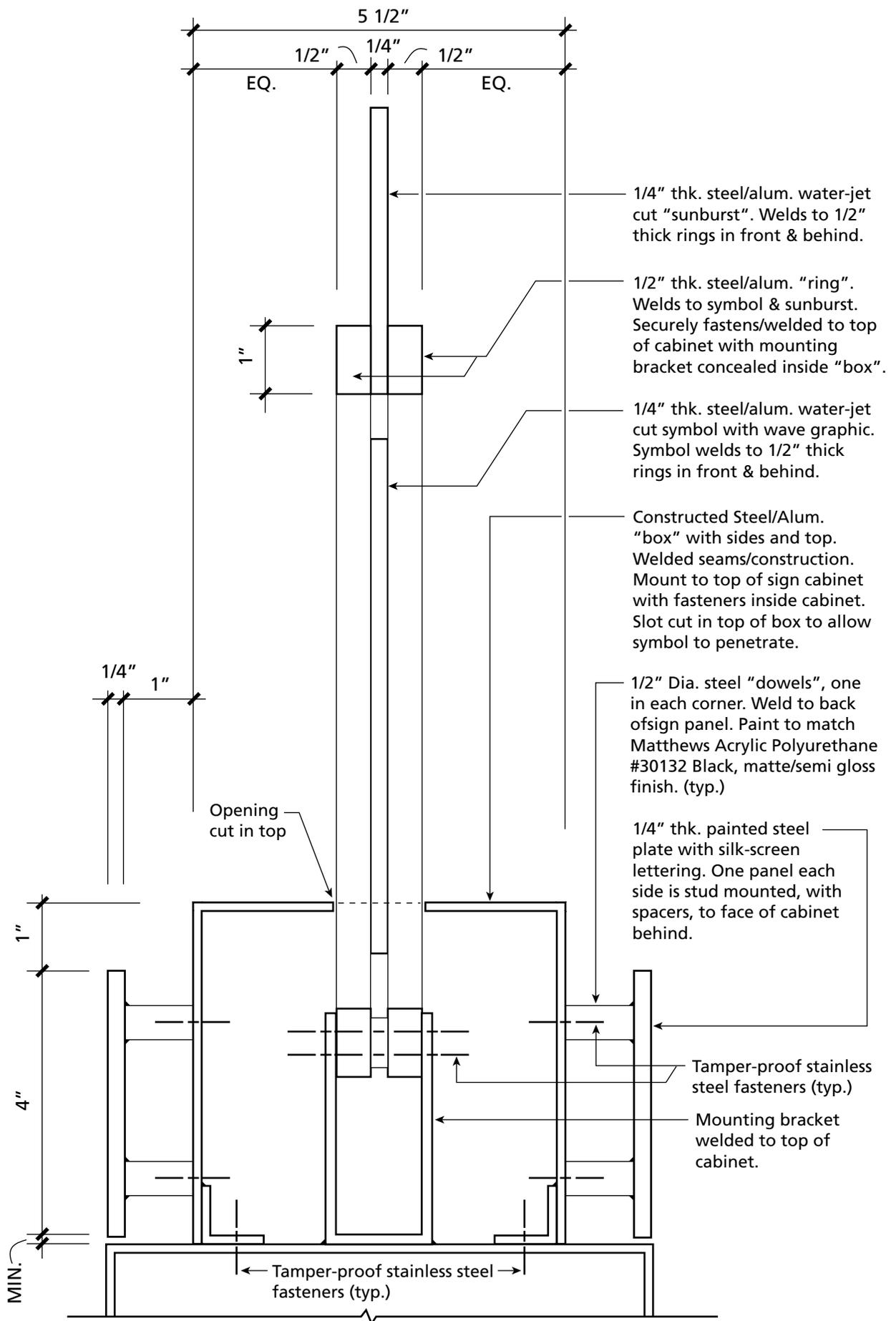


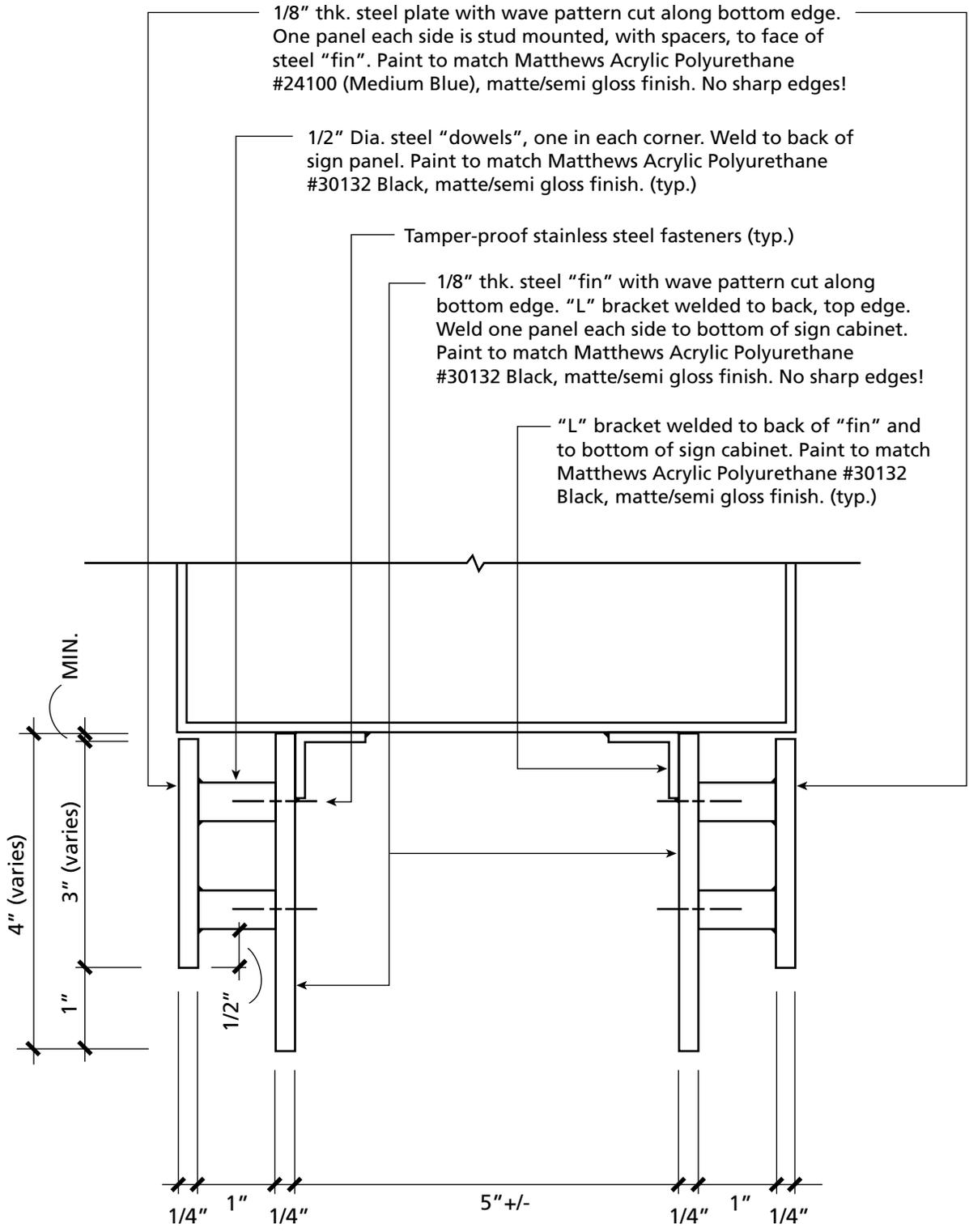


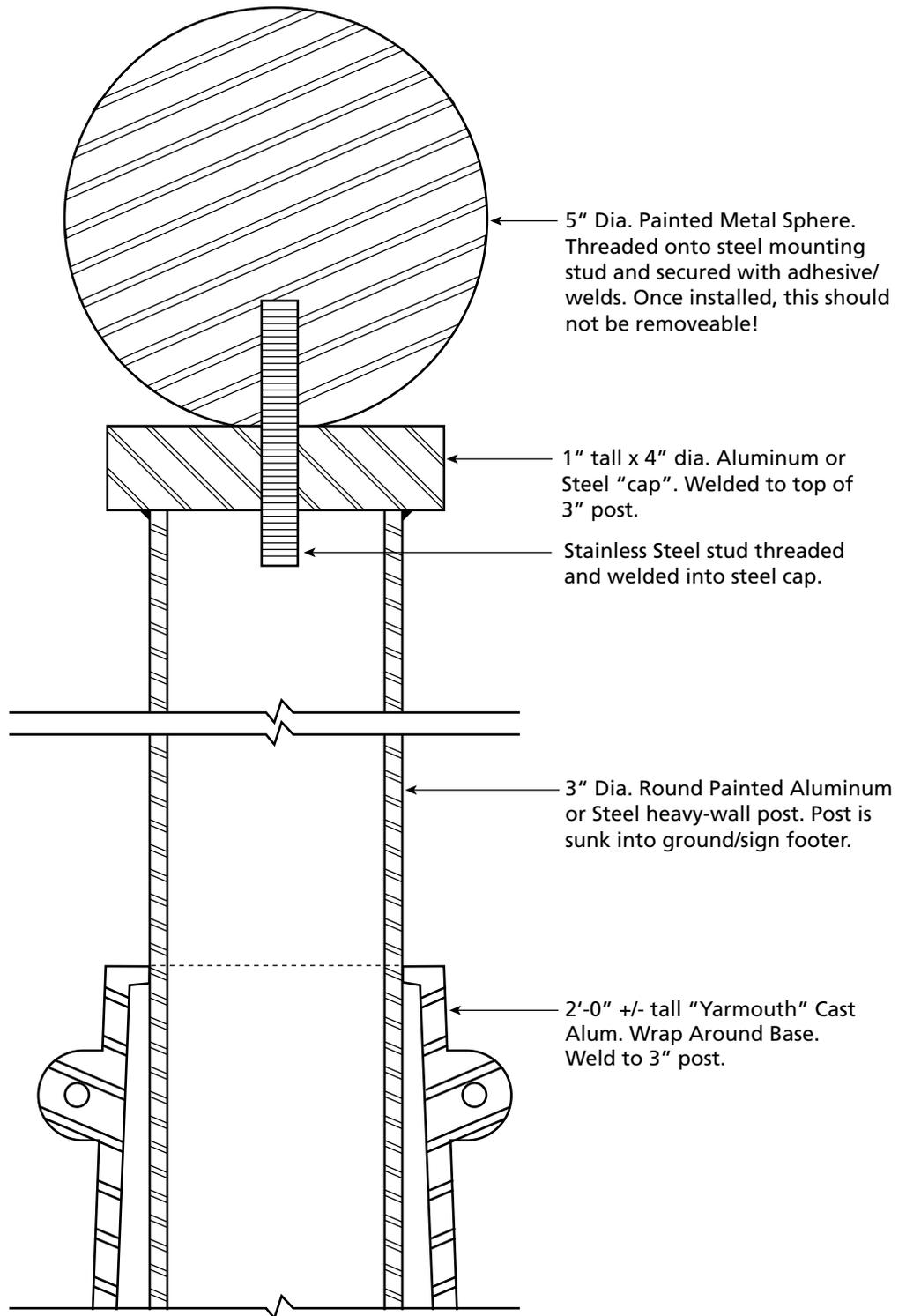
NOTE:
 INTERNAL STRUCTURE AS REQUIRED.
 CABINET IS TO BE WELDED STEEL
 CONSTRUCTION. NO VISIBLE FASTENERS
 OR SCREWS. VENTILATION AND WEEP
 HOLES AS REQ'D ELECTRICAL CABLING
 TO RUN THROUGH HOLLOW LEG OF
 DIRECTORY, NO VISIBLE CABLING. ALL
 BALLASTS ETC. TO BE INTERNAL. NO
 VISIBLE SIGN COMPANY/REGULATORY
 STICKERS ANYWHERE ON SIGN.

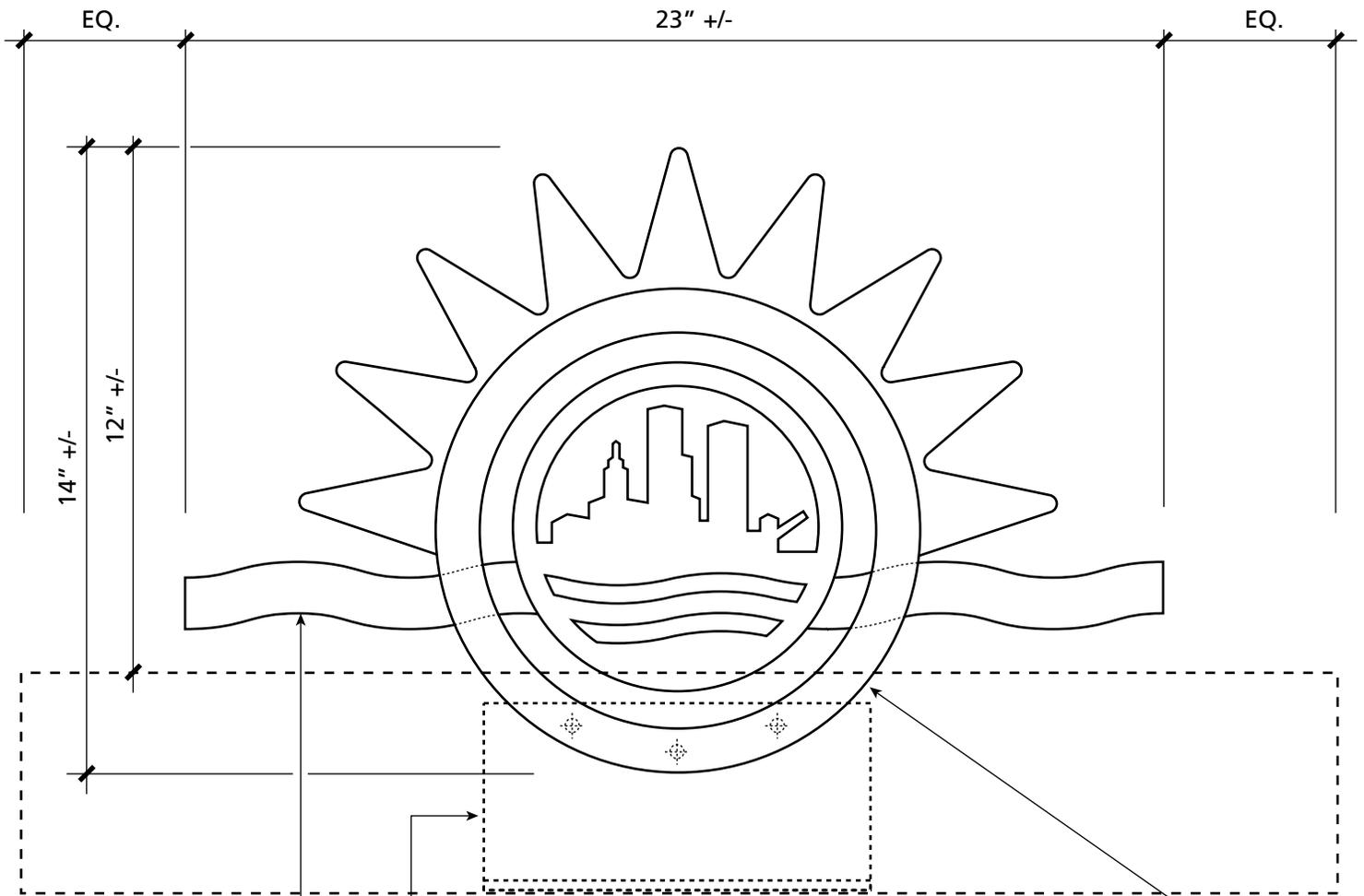
SECTION IS FOR DESIGN INTENT ONLY!
 SIGN FABRICATOR TO PROVIDE SHOP
 DRAWINGS AND ALL ACTUAL
 CONSTRUCTION DETAILS REQ'D TO
 BUILD THIS SIGN TO THE INTENT
 SHOWN.







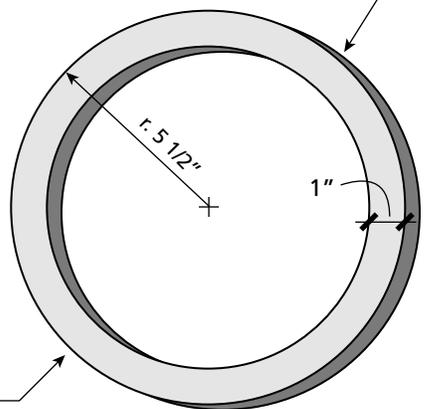
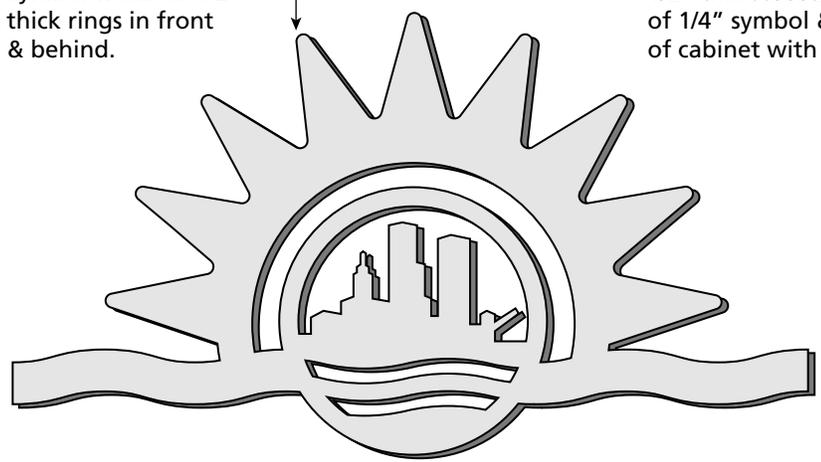




1/4" thk. steel/alum. water-jet cut symbol with wave graphic. Symbol welds to 1/2" thick rings in front & behind.

Mounting bracket. Welds to top of cabinet. Steel "rings" weld or mech. fasten to bracket.

1/2" thk. steel/alum. "rings". Weld one ring to each side of 1/4" symbol & sunburst. Securely fastens/welded to top of cabinet with mounting bracket concealed inside "box".



**Note: There are two of these rings. One attaches to the face of the symbol, the other to the back of the symbol. See section B-B, Sheet 6/WKSK.

See Sheet 10/W-KSK for more details.

Paint "sunburst" front & back faces and edges to match Matthews Acrylic Polyurethane #30133/18645 Metallic Gold, matte/semi gloss finish. Carefully and accurately mask and spray. No hand painting!

Paint "circle & symbol" front & back faces and edges to match Matthews Acrylic Polyurethane #30132 Black, matte/semi gloss finish. Carefully and accurately mask and spray. No hand painting!

Paint "rings" all surfaces to match Matthews Acrylic Polyurethane #30132 Black, matte/semi gloss finish. Carefully and accurately mask and spray. No hand painting!

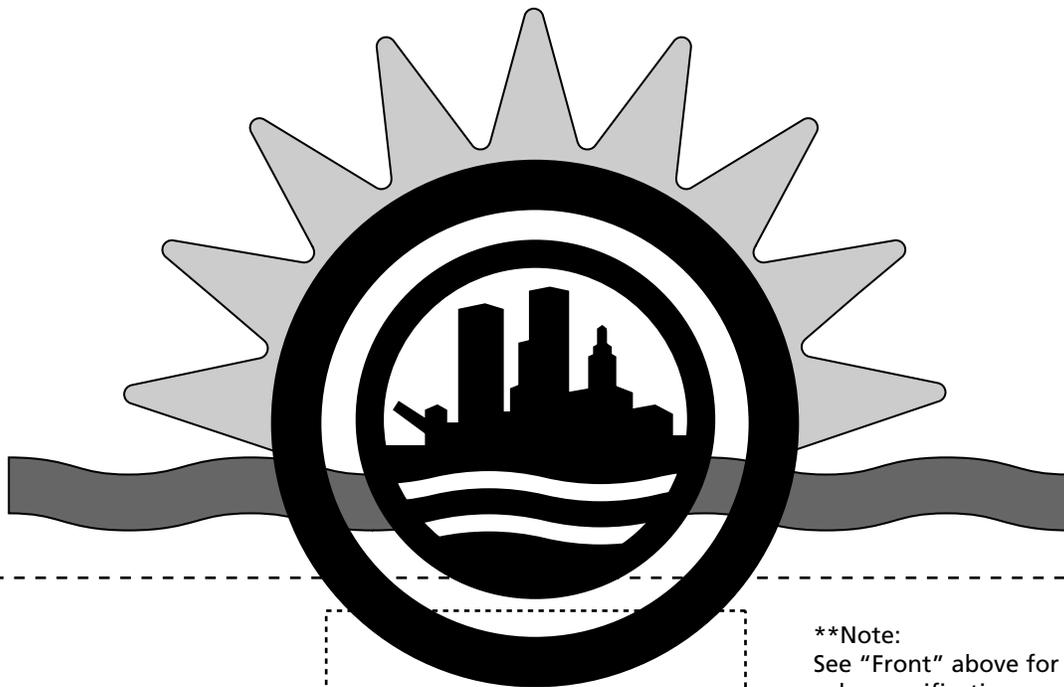
Open airspace.

Open airspace. Metal here is cut away. (Typ.)

Paint "wave" front & back faces and edges to match Matthews Acrylic Polyurethane #24100 (Medium Blue), matte/semi gloss finish. Carefully and accurately mask and spray. No hand painting!

Open airspace (wave). Metal here is cut away. (Typ.)

(Front)



(Back)

**Note:
See "Front" above for all color specifications.

Paint "sunburst" front & back faces and edges to match Matthews Acrylic Polyurethane #30133/18645 Metallic Gold, matte/semi gloss finish. Carefully and accurately mask and spray. No hand painting!

Paint "circle & symbol" front & back faces and edges to match Matthews Acrylic Polyurethane #30132 Black, matte/semi gloss finish. Carefully and accurately mask and spray. No hand painting!

Paint "rings" all surfaces to match Matthews Acrylic Polyurethane #30132 Black, matte/semi gloss finish. Carefully and accurately mask and spray. No hand painting!

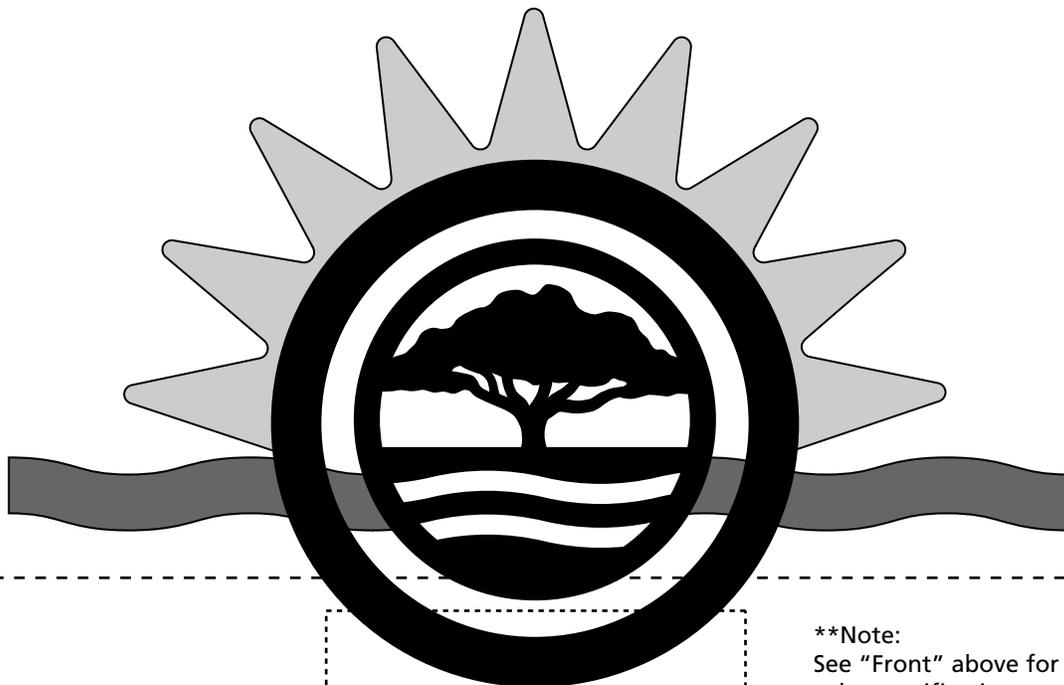
Open airspace.

Open airspace. Metal here is cut away. (Typ.)

Paint "wave" front & back faces and edges to match Matthews Acrylic Polyurethane #24100 (Medium Blue), matte/semi gloss finish. Carefully and accurately mask and spray. No hand painting!

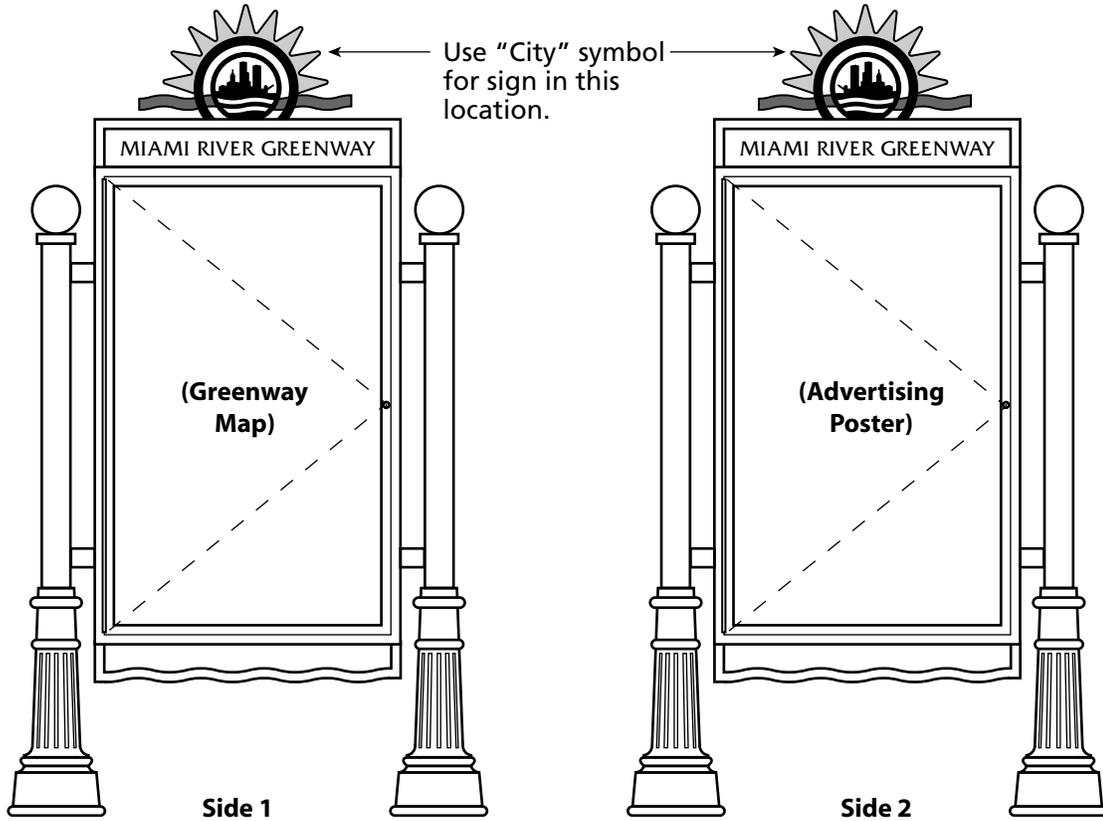
Open airspace (wave). Metal here is cut away. (Typ.)

(Front)

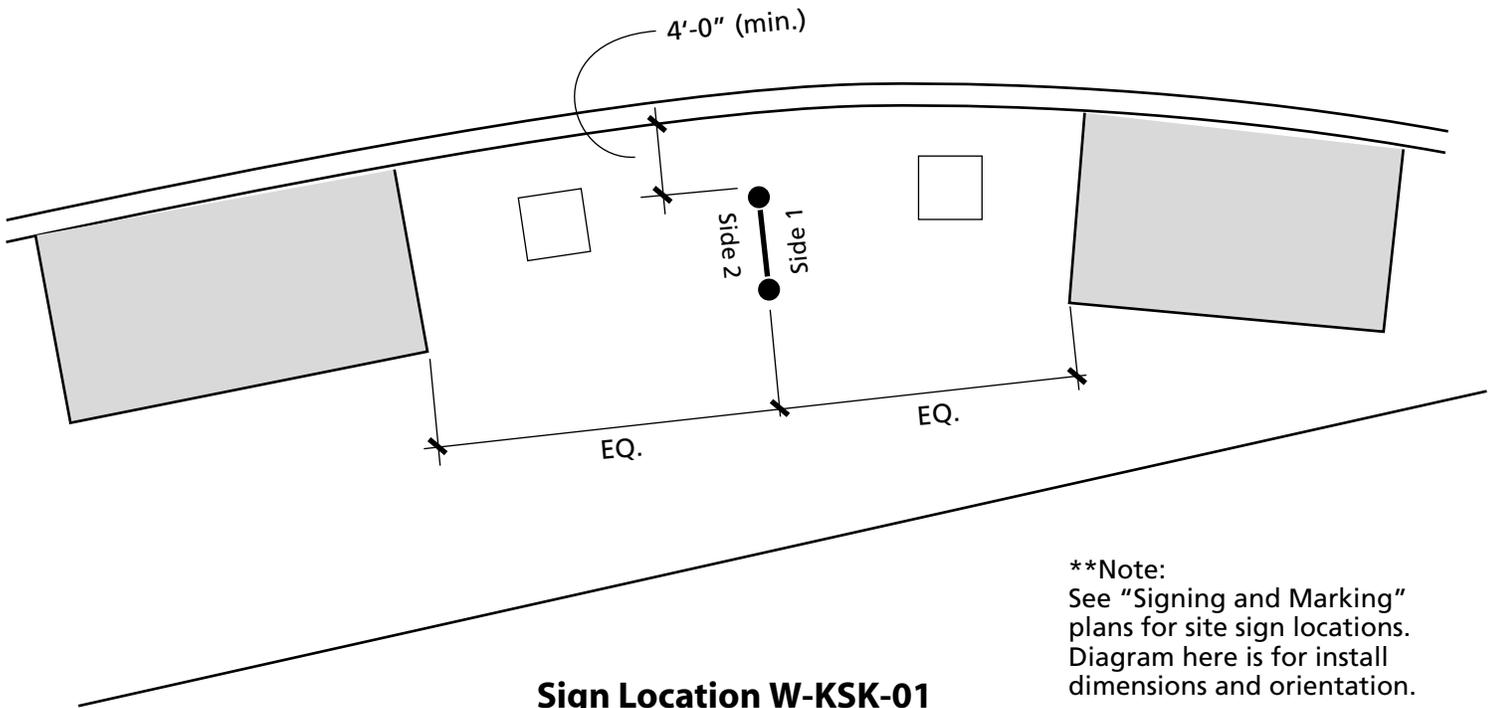


(Back)

**Note:
See "Front" above for all color specifications.

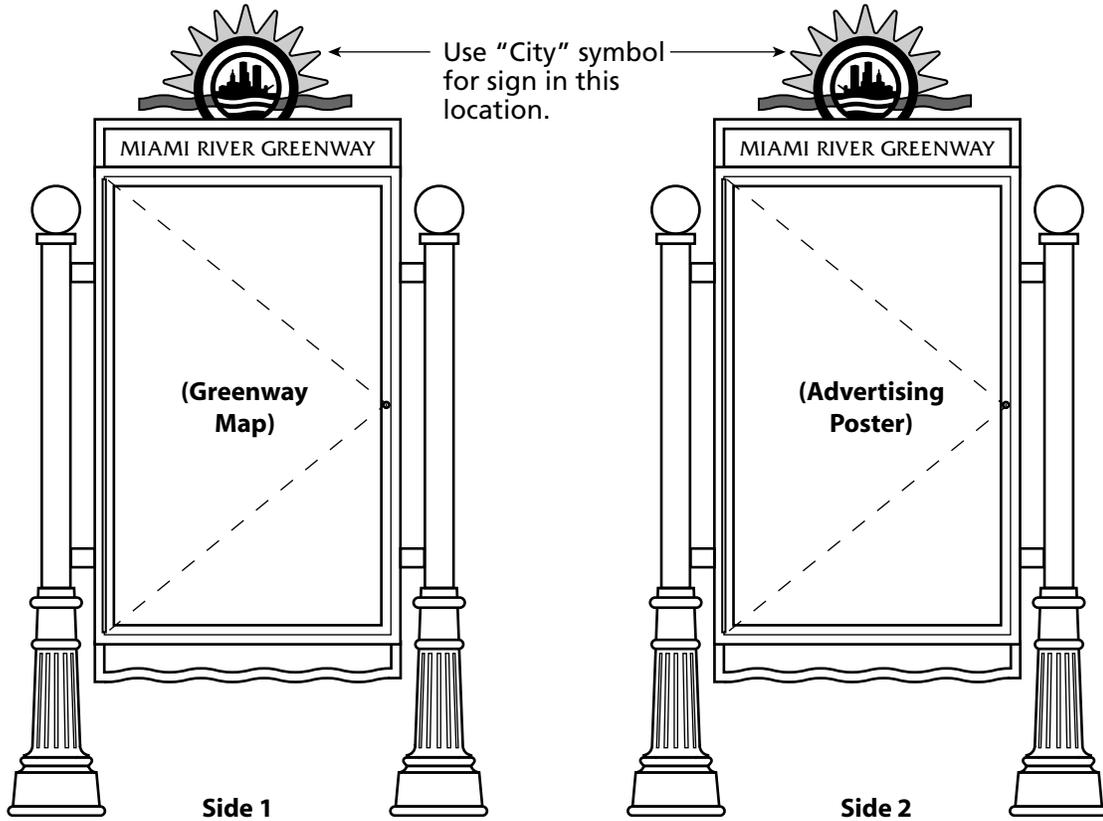


Sign Message W-KSK-01

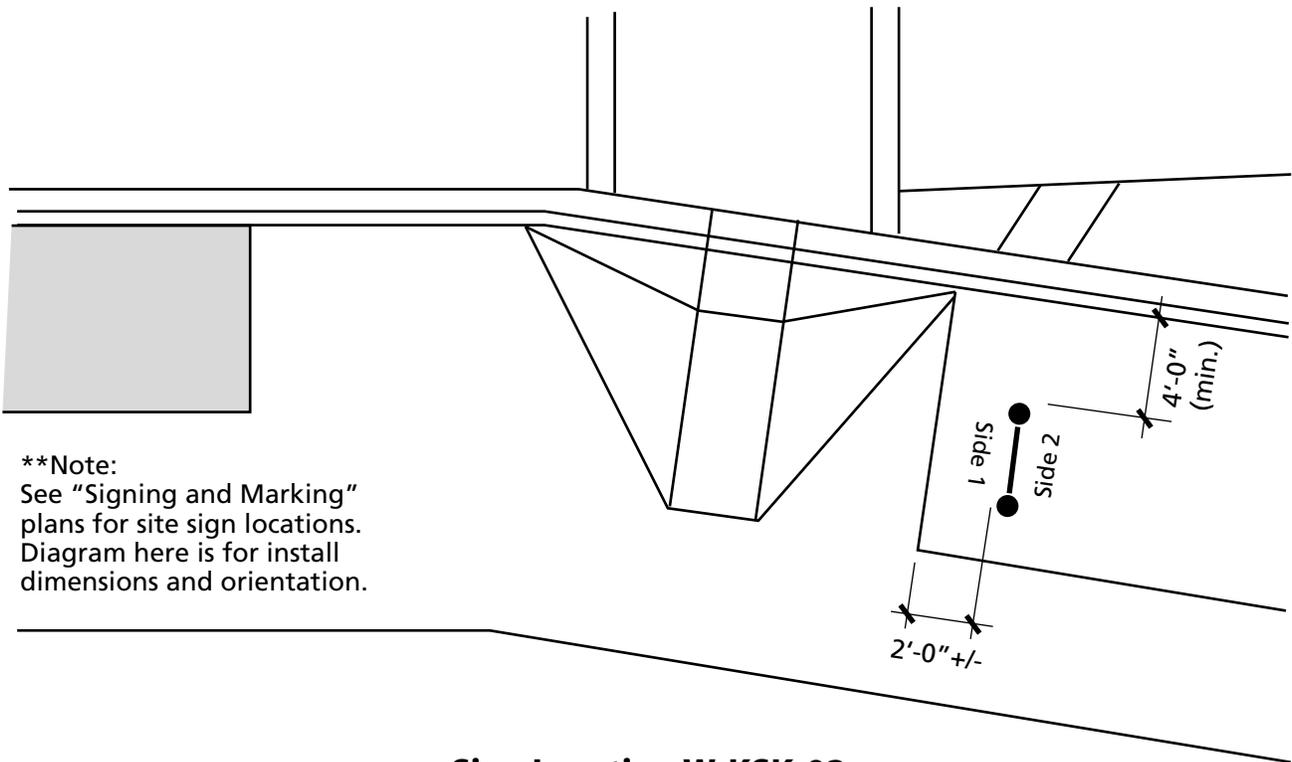


Sign Location W-KSK-01

****Note:**
See "Signing and Marking" plans for site sign locations. Diagram here is for install dimensions and orientation.

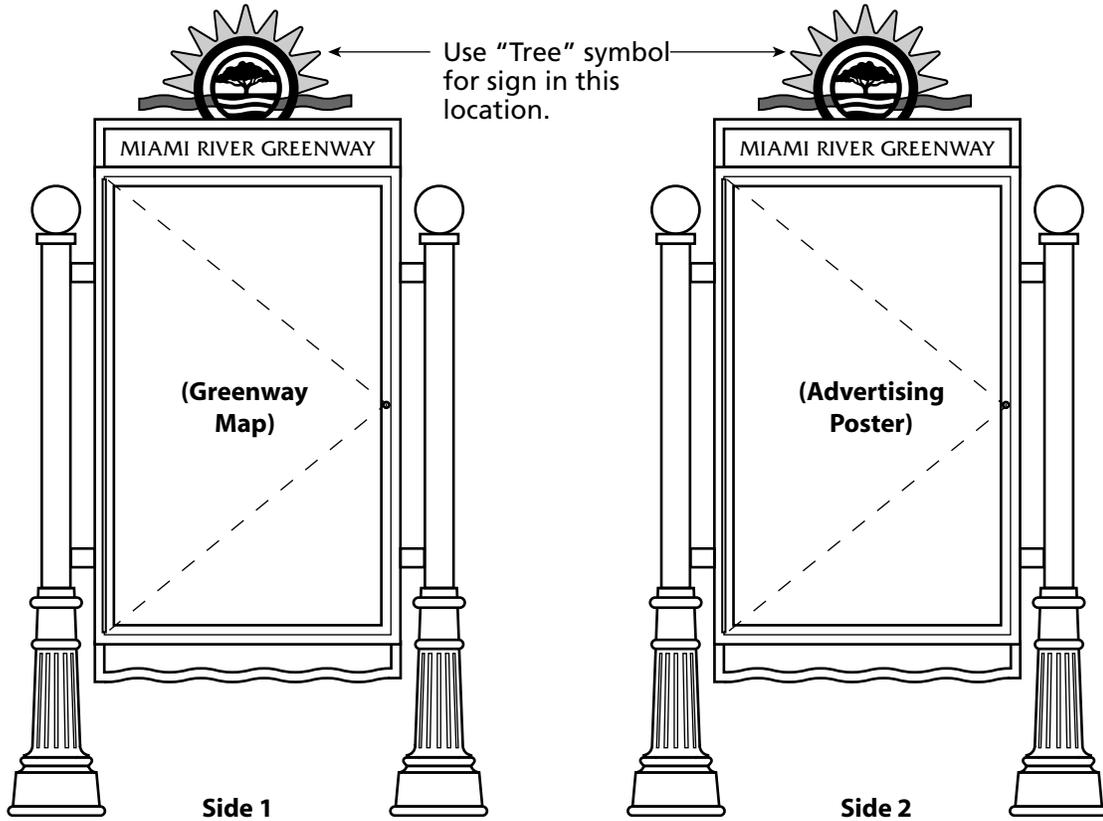


Sign Message W-KSK-03

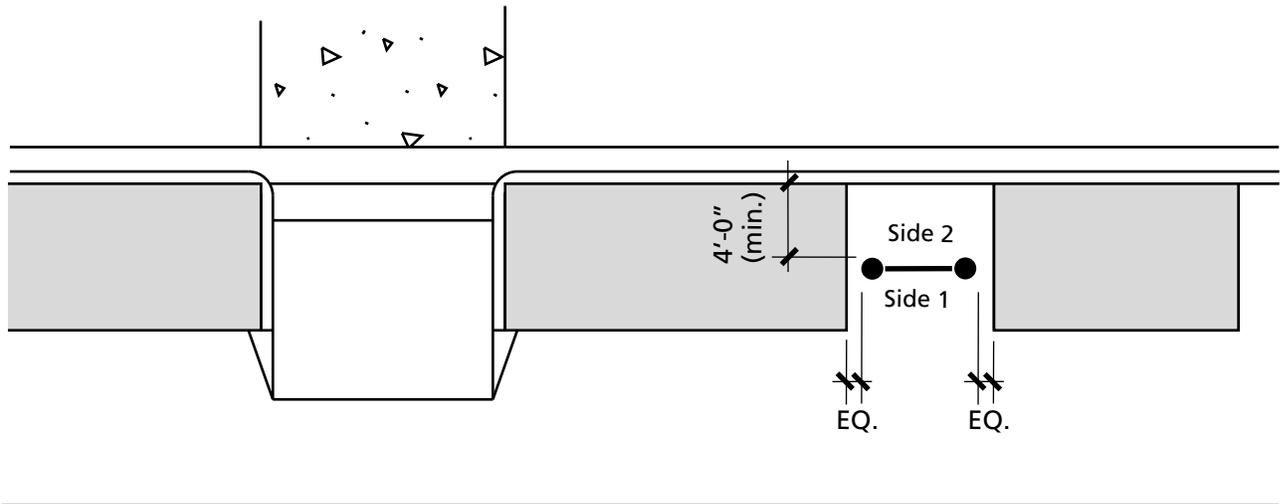


****Note:**
See "Signing and Marking" plans for site sign locations. Diagram here is for install dimensions and orientation.

Sign Location W-KSK-03



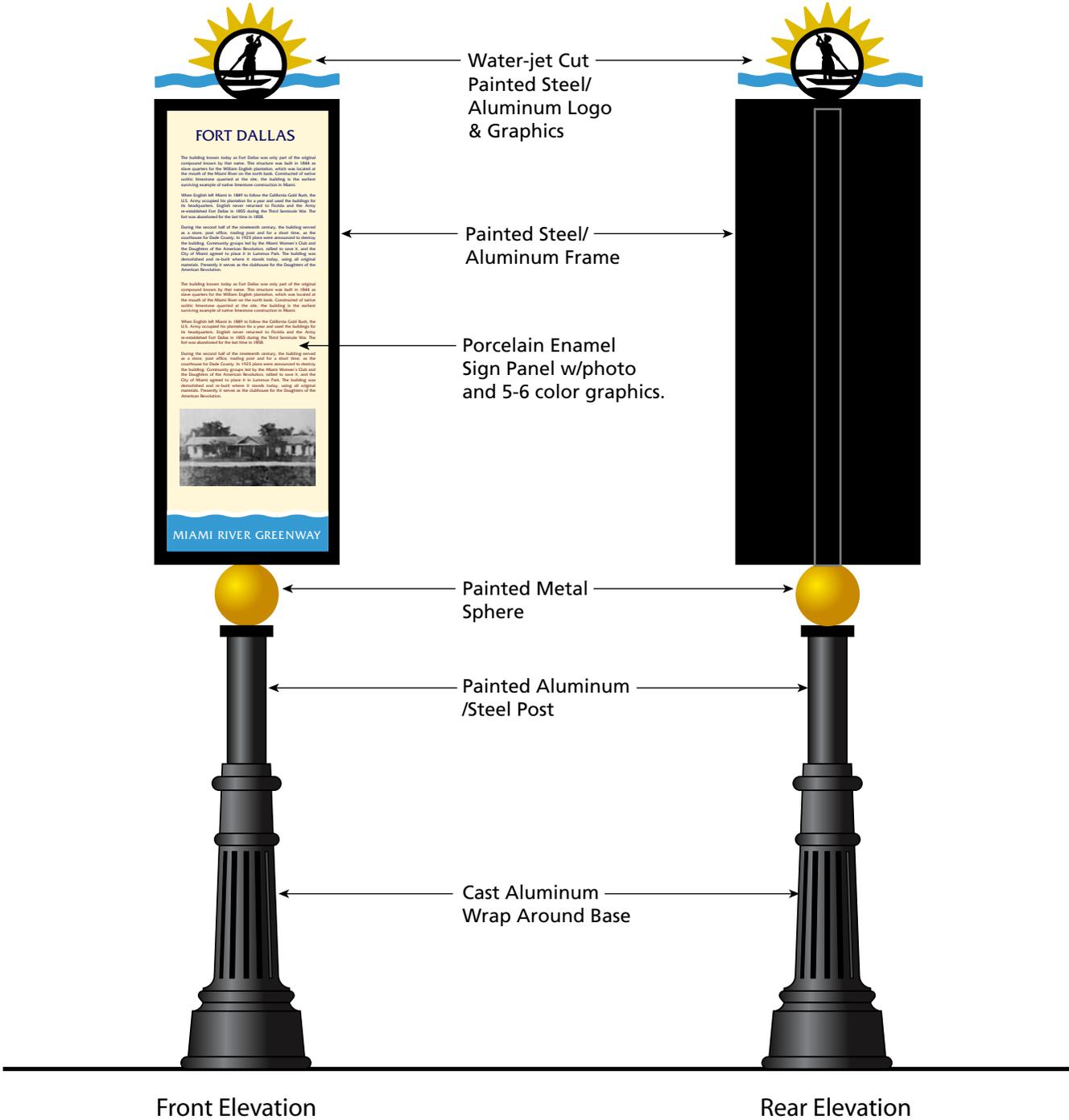
Sign Message W-KSK-04

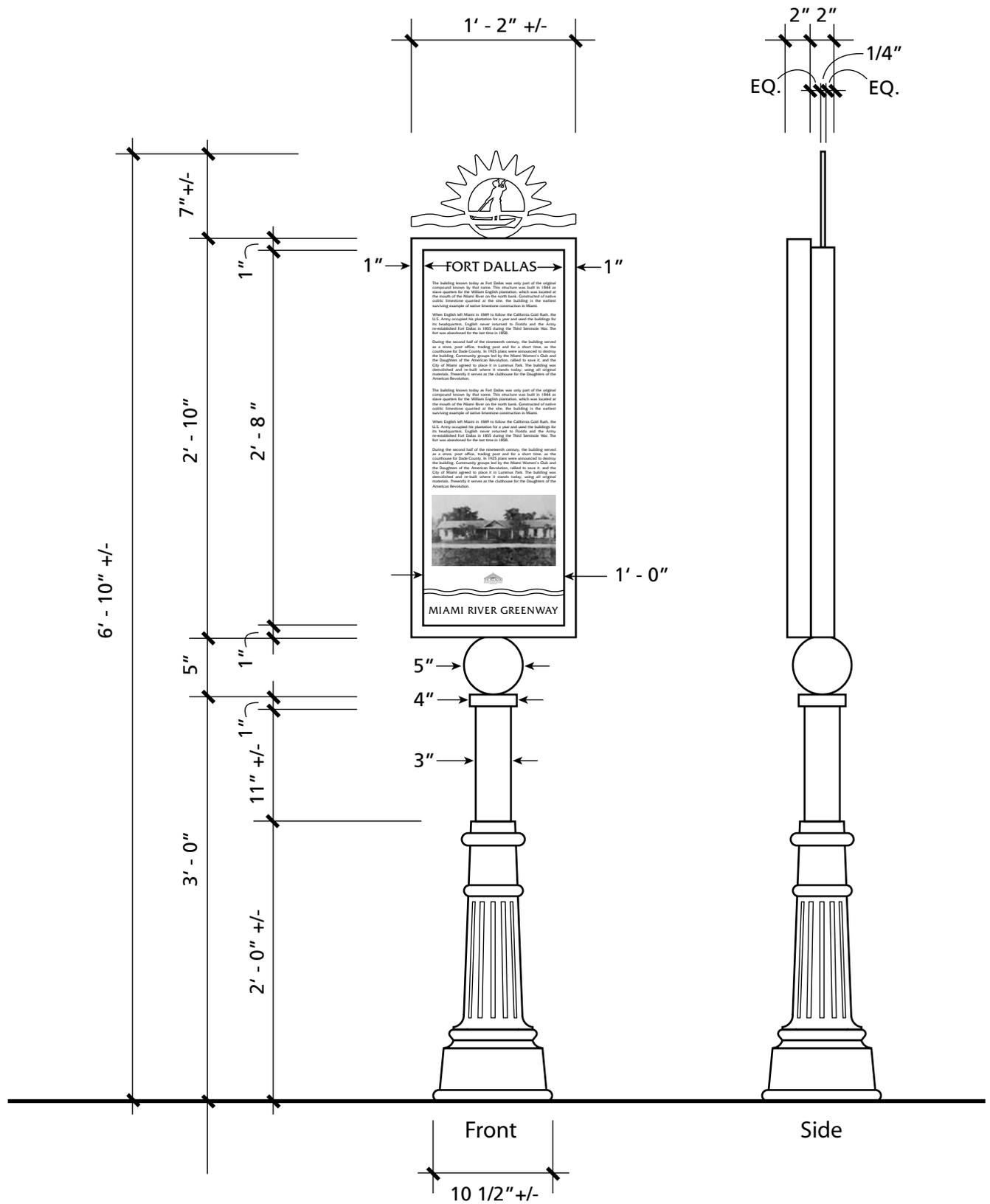


****Note:**
See "Signing and Marking" plans for site sign locations. Diagram here is for install dimensions and orientation.

Sign Location W-KSK-04

****Note:**
 Details of this sign type are included 'for information only'.
 All historical marker signs will be fabricated and installed
 by others in locations shown. G.C. to coordinate with
 historical sign sub-contractor, all site conditions/work,
 sign footers and sign installations.





No sharp corners! (typ.)

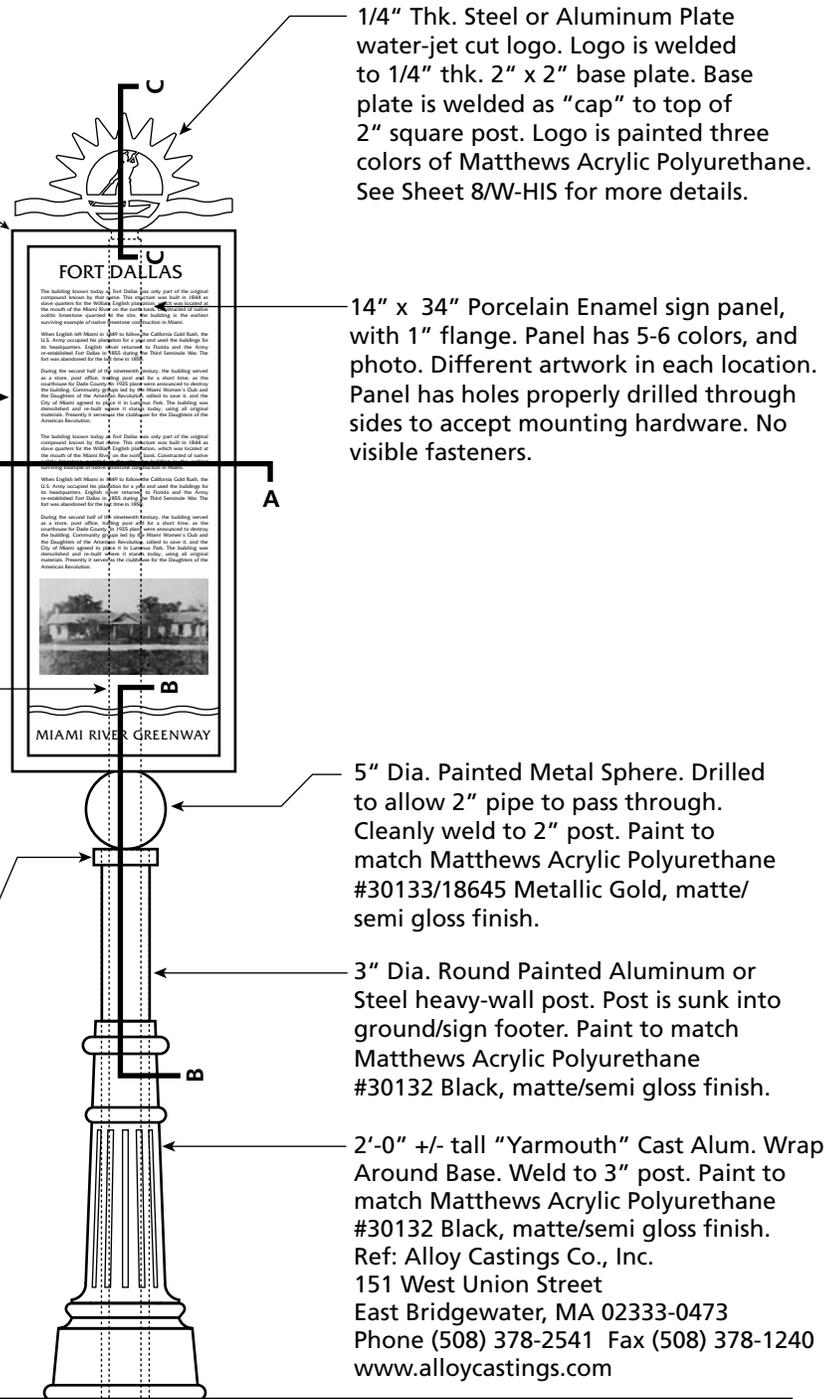
Aluminum or Steel "frame".
1" all-around frame on face,
with 2" sides/returns. Fasten
to with flush tamper-proof
hardware through sides. Paint
to match Matthews Acrylic
Polyurethane #30132 Black,
matte/semi gloss finish.

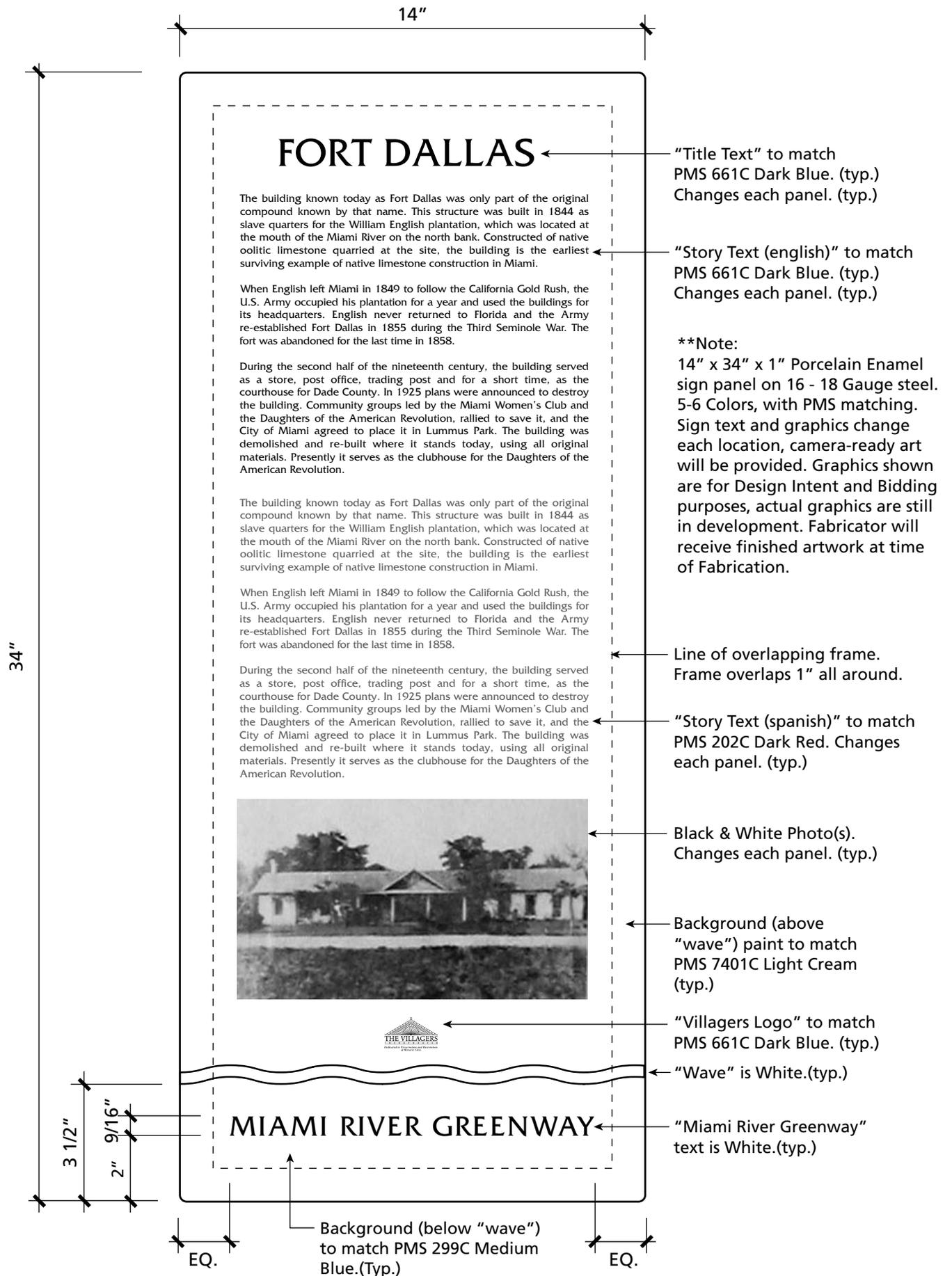
2" +/- Square Painted Aluminum
or Steel heavy-wall post. Post
is securely welded to inside of
3" round post. Flush cap with
water-jet cut logo is welded
to top to prevent water intrusion.
Paint to match Matthews Acrylic
Polyurethane #30132 Black,
matte/semi gloss finish.

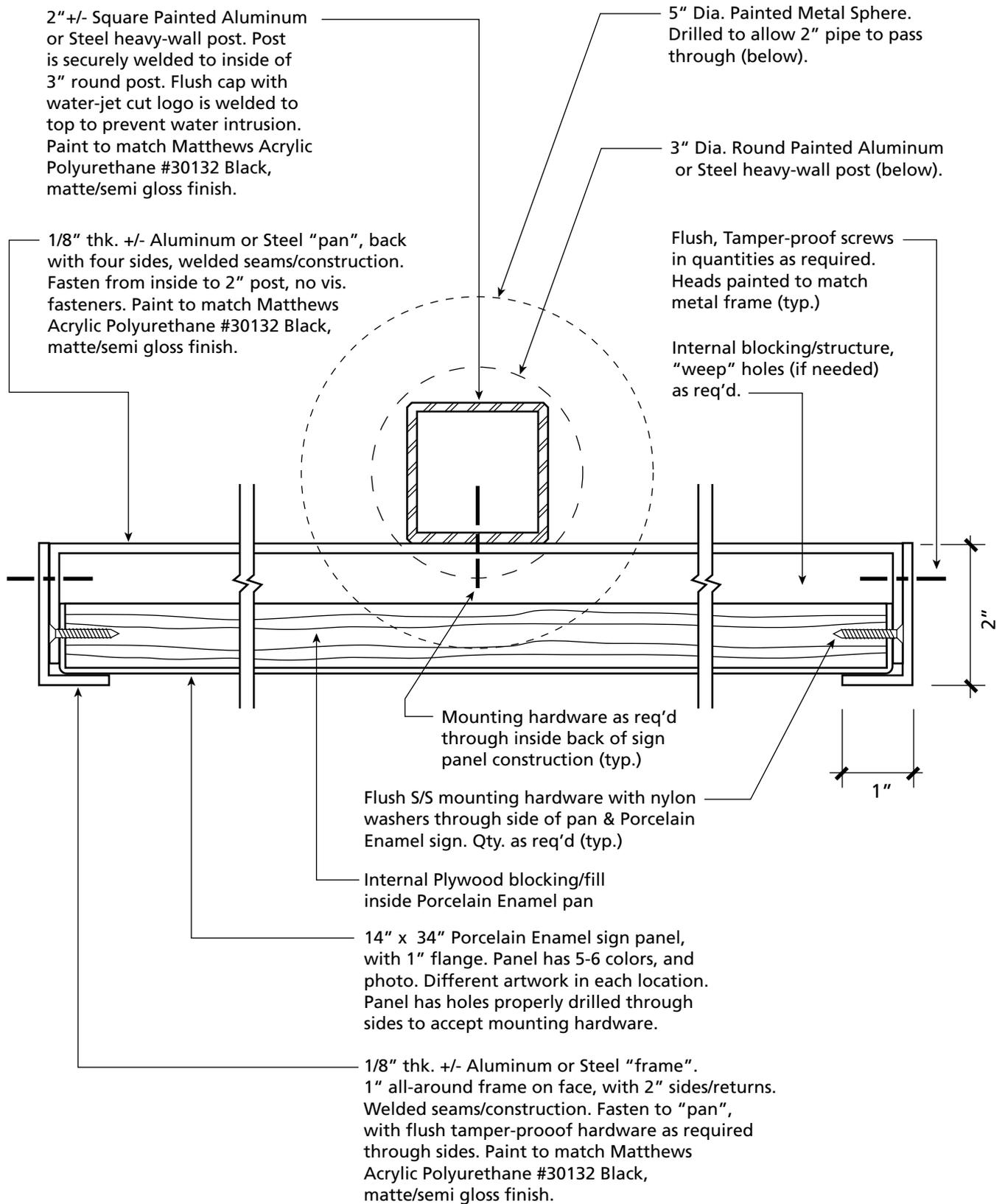
1" tall x 4" dia. Aluminum or
Steel "cap". Welded to top of
3" post, and to sides of 2" post
that penetrates it. Paint to match
Matthews Acrylic Polyurethane
#30132 Black, matte/semi gloss
finish.

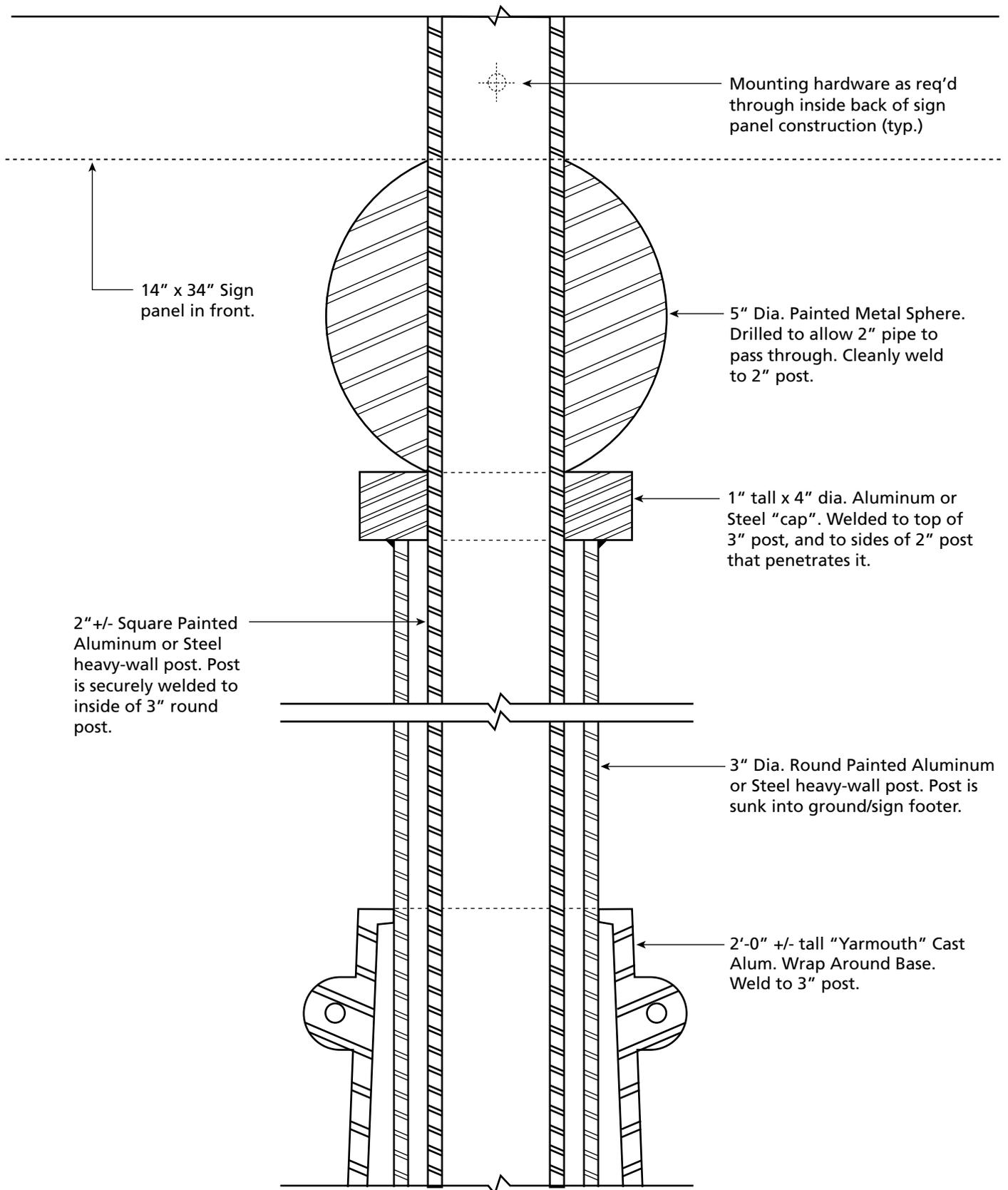
****Note:**
Section A-A -- see Sheet 5/W-HIS
Section B-B -- see Sheet 6/W-HIS
Section C-C -- see Sheet 7/W-HIS

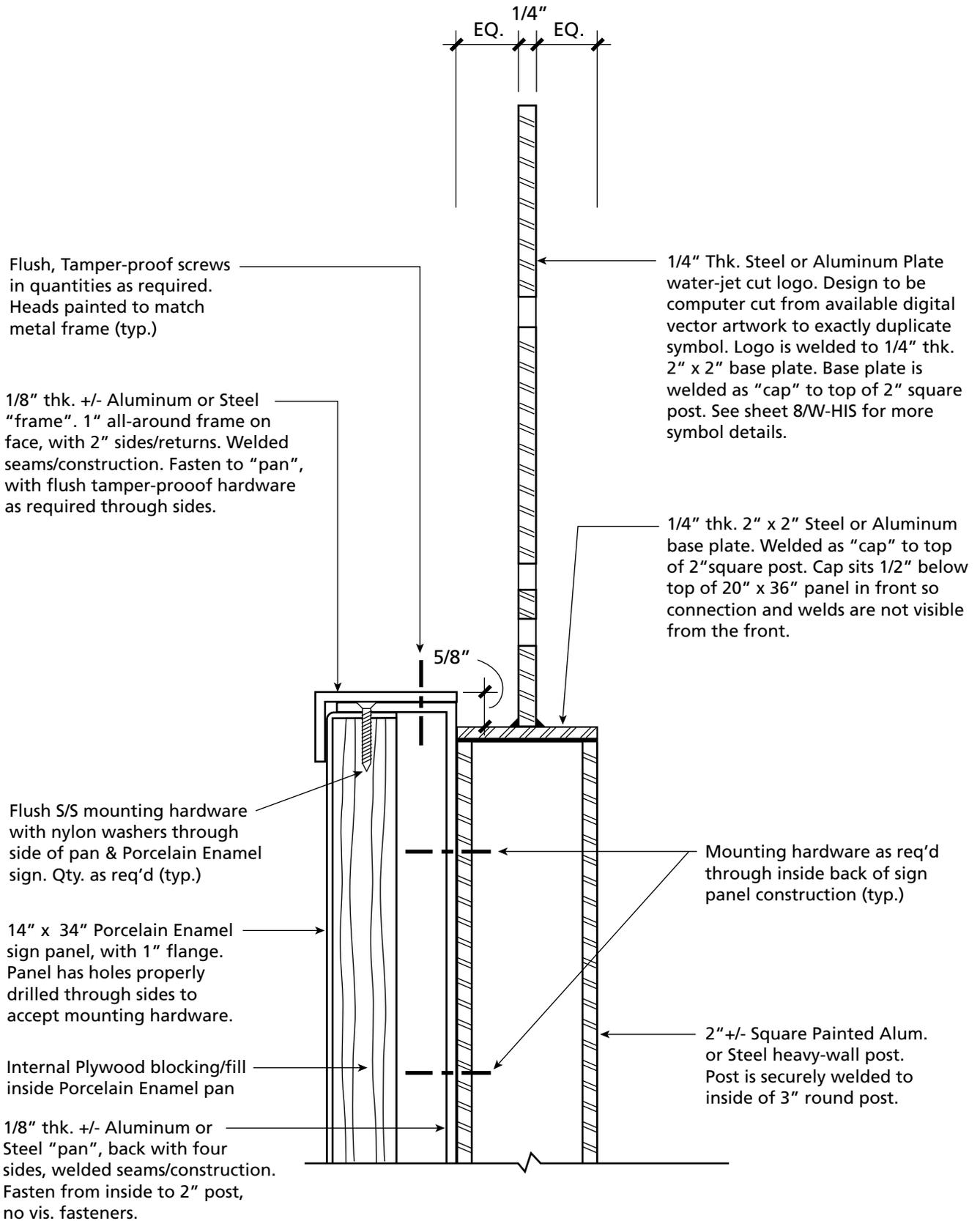
Steel or Aluminum post set into
sign footer so that base is flush
with pavement. Footer as req'd
to meet all local and national
codes.

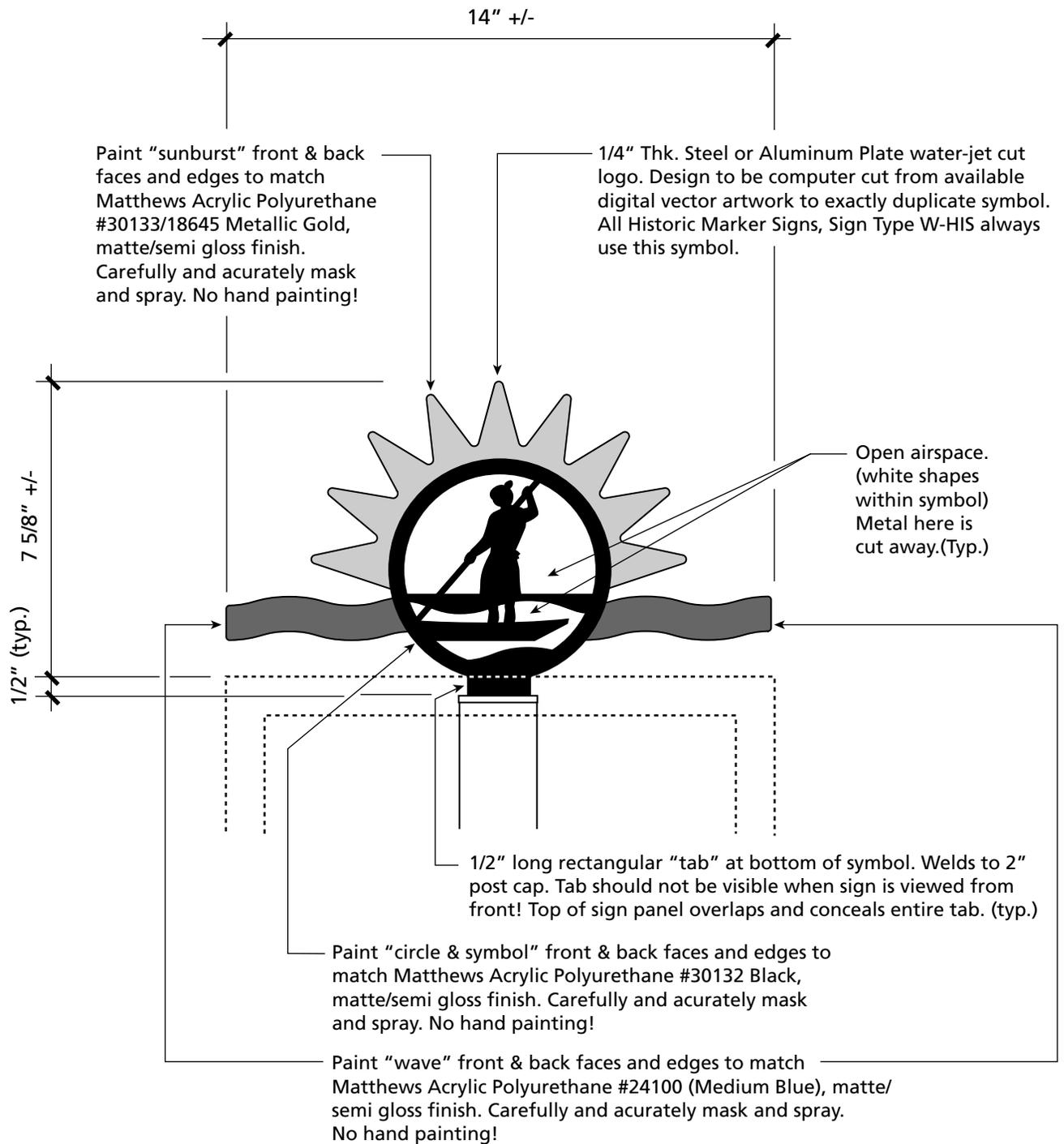












****Note:**

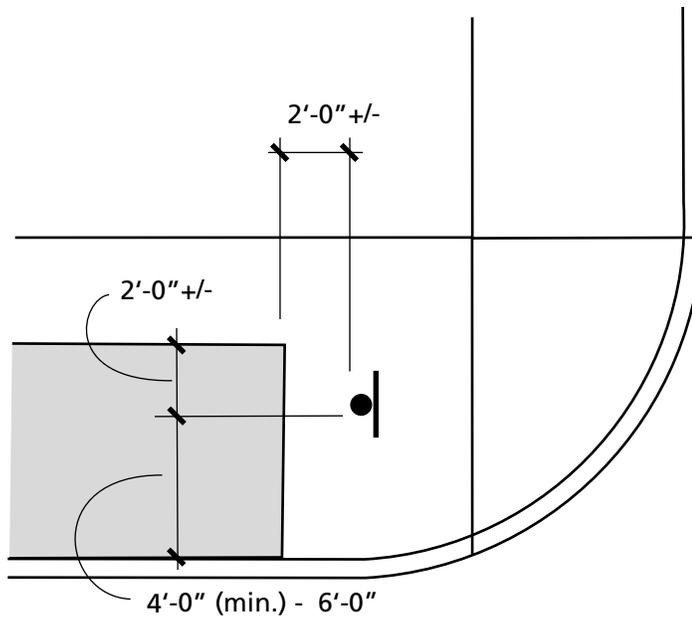
Symbol is water-jet cut out of (1) piece of metal plate. Color breaks are achieved by carefully masking and spraying "waves" and "sunburst". Router/laser cut masking from digital files should be used for precision. (1) sample must be supplied and approved for quality of metalwork and paint finish prior to full production.

Symbol pictured was in final development at time of spec. document. Please obtain final versions from City prior to manufacture.



****Note:**
 "Scottish Rite Temple"
 Porcelain Enamel historical marker. Camera-ready art with actual text and photo will be supplied to Sign Fabricator. Art shown is for design intent and specification purposes only.

Sign Message W-HIS-01



****Note:**
 See "Signing and Marking" plans for site sign locations. Diagram here is for install dimensions and orientation.

Details of this sign type are included 'for information only'. All historical marker signs will be fabricated and installed by others in locations shown. G.C. to coordinate with historical sign sub-contractor, all site conditions/work, sign footers and sign installations.

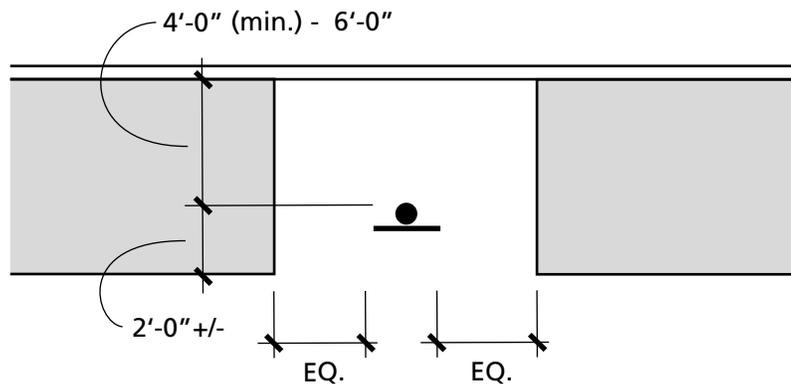
Specific locations are shown for signs located within the scope of the new Greenway construction. City will provide locations for Historical signs that do not fall within the areas of new construction.

Sign Location W-HIS-01



****Note:**
 “Miami River Inn” Porcelain Enamel historical marker. Camera-ready art with actual text and photo will be supplied to Sign Fabricator. Art shown is for design intent and specification purposes only.

Sign Message W-HIS-03



****Note:**
 See “Signing and Marking” plans for site sign locations. Diagram here is for install dimensions and orientation.

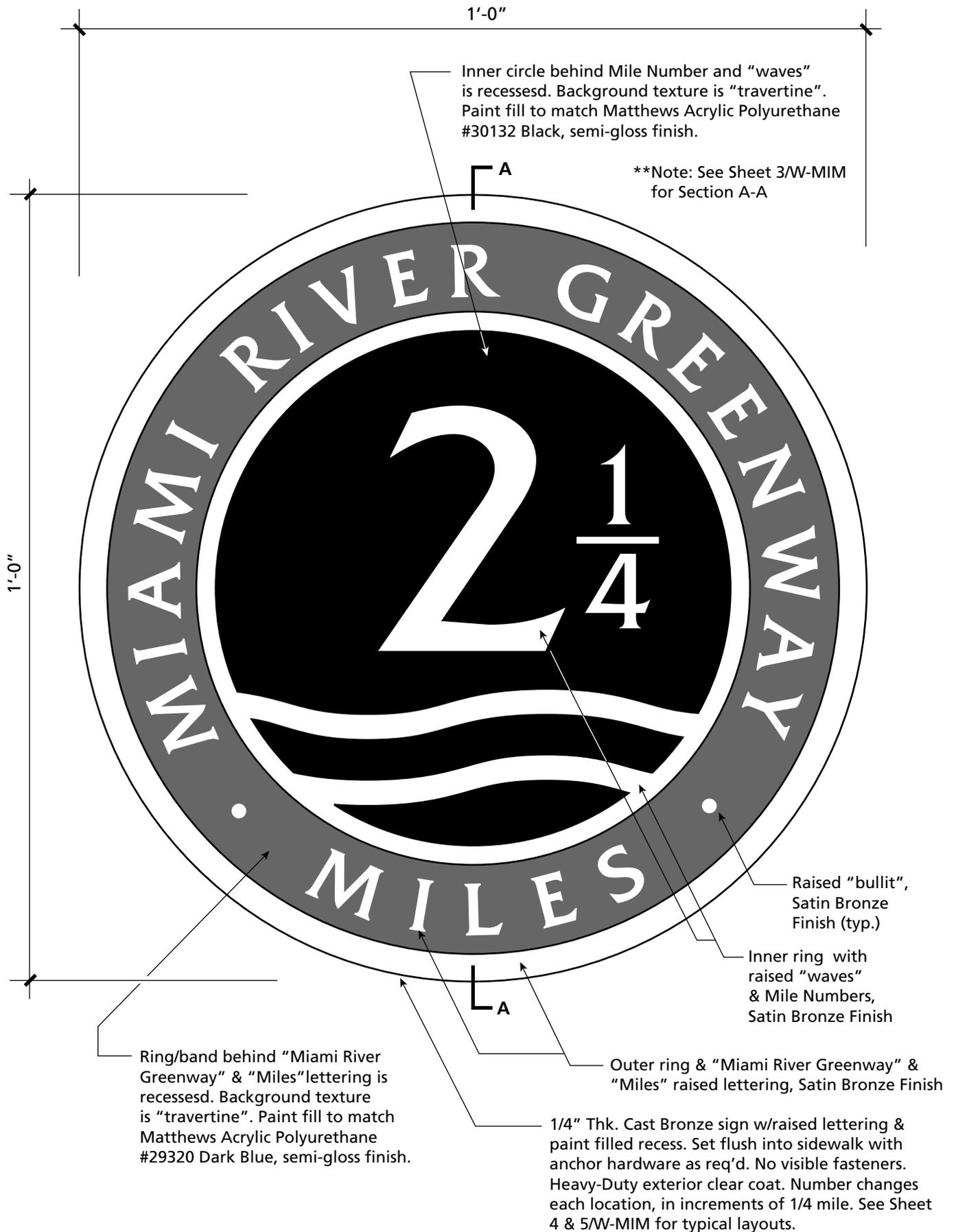
Details of this sign type are included ‘for information only’. All historical marker signs will be fabricated and installed by others in locations shown. G.C. to coordinate with historical sign sub-contractor, all site conditions/work, sign footers and sign installations.

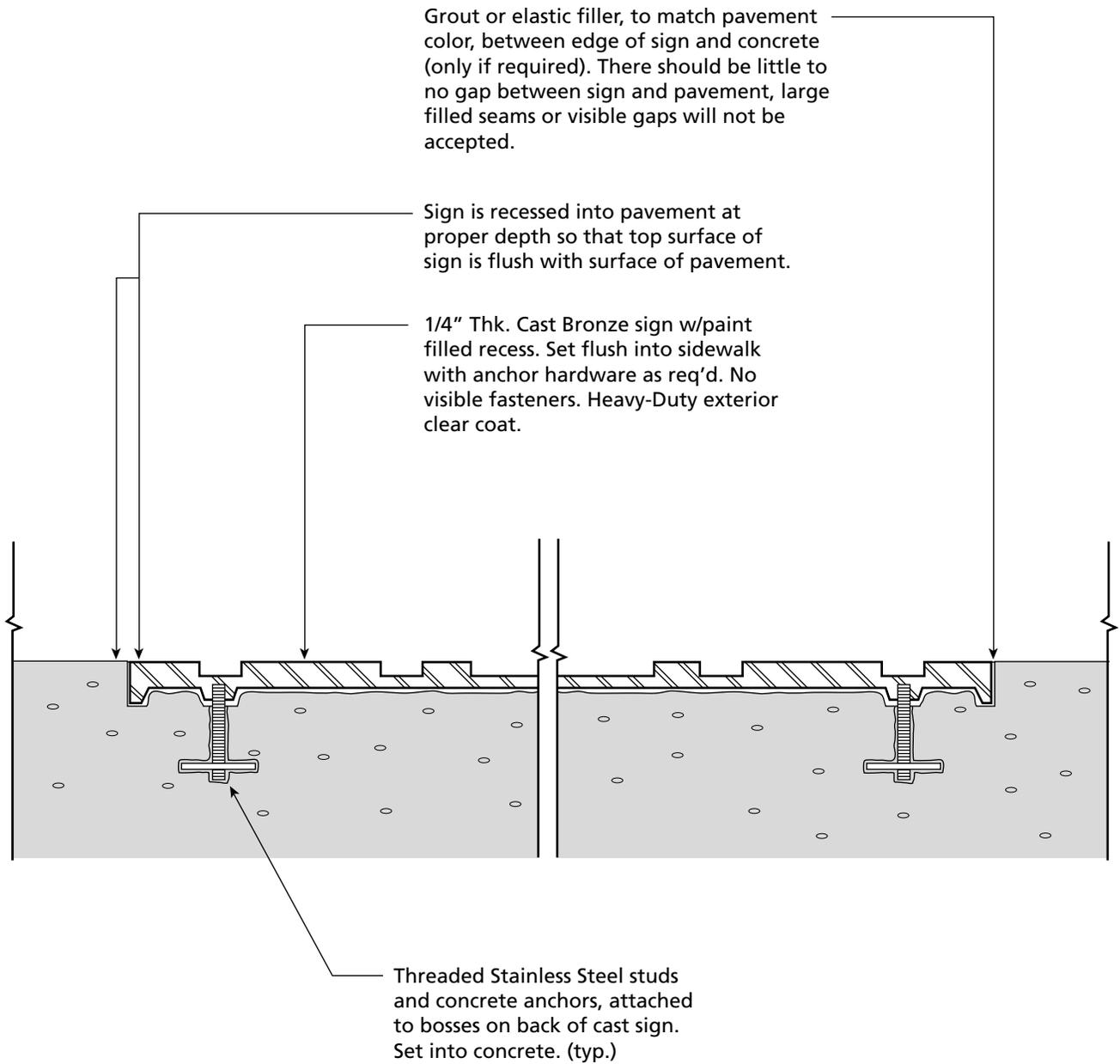
Sign Location W-HIS-03

Specific locations are shown for signs located within the scope of the new Greenway construction. City will provide locations for Historical signs that do not fall within the areas of new construction.



Cast Bronze sign w/paintfilled recess. Set flush into sidewalk.







2 1/4"
(Typ: Fractions of 1st Mile)



1 1/4"
(Typ: Fraction numerals)



4"
(Typ: Numbers 1-9)



**** Note:**
Layouts above show typical number layout for fractions of first mile;
single-digit miles (Miles 4-9 similar to layouts shown above); and
single-digit fractions of a mile (in 1/4 mile increments.)
Typeface: "Friz Quadrata"

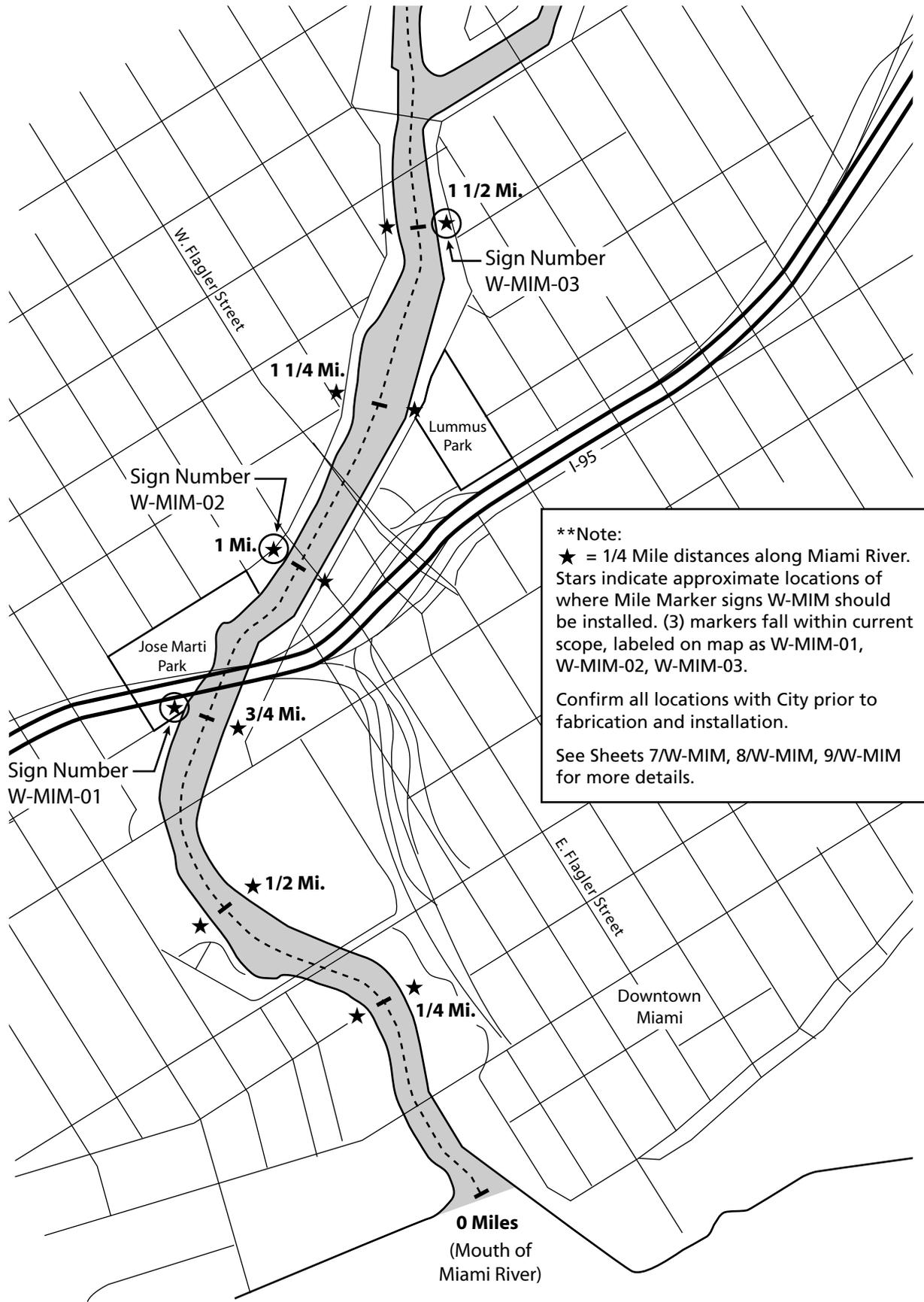


3 1/4"
(Typ: Numbers 10+)



** Note:

Layouts above show typical number layout for double-digit miles (Miles 13+ similar to layouts shown above); and double-digit fractions of a mile (in 1/4 mile increments.)
Typeface: "Friz Quadrata"

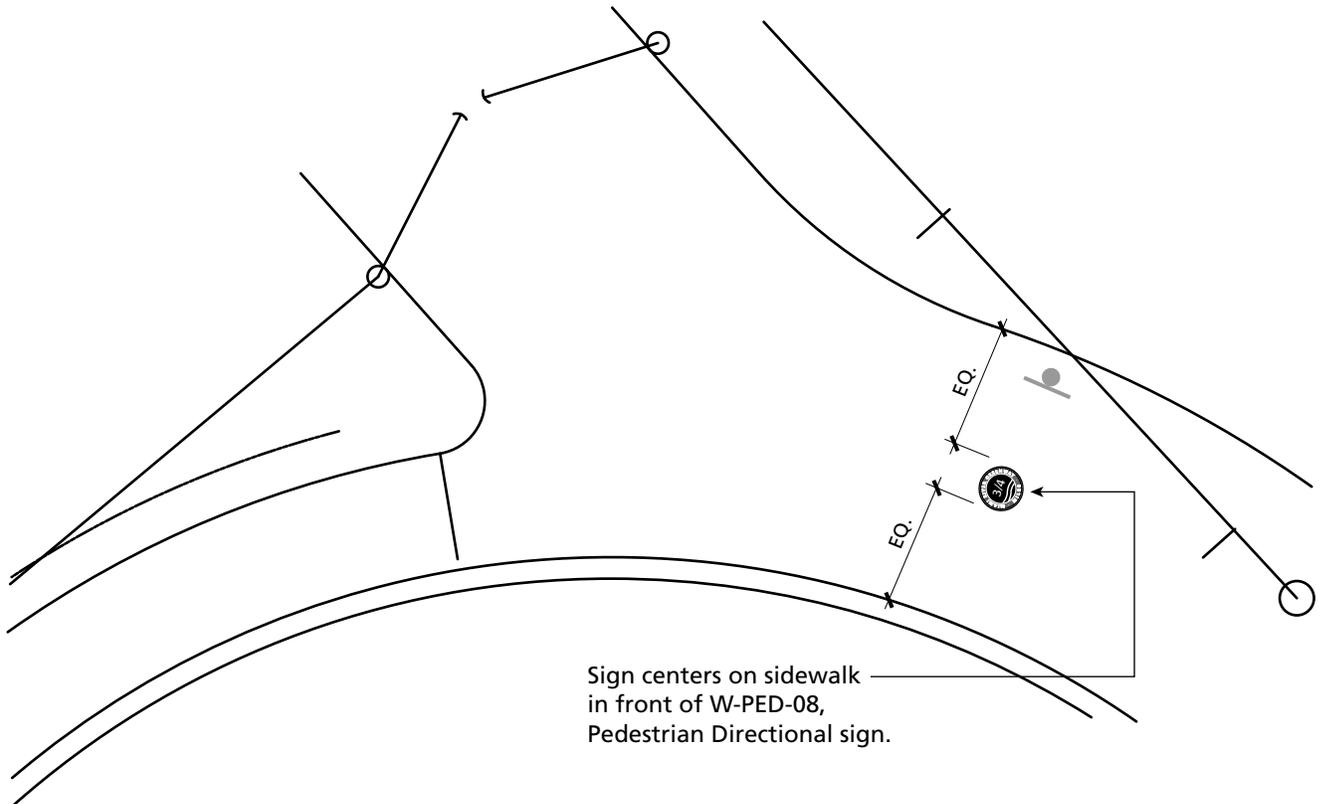


****Note:**
 ★ = 1/4 Mile distances along Miami River. Stars indicate approximate locations of where Mile Marker signs W-MIM should be installed. (3) markers fall within current scope, labeled on map as W-MIM-01, W-MIM-02, W-MIM-03.
 Confirm all locations with City prior to fabrication and installation.
 See Sheets 7/W-MIM, 8/W-MIM, 9/W-MIM for more details.



****Note:**
Fabricator must submit camera-ready layouts of all sign panels to the City of Miami for approval prior to fabrication.

Sign Location W-MIM-01



Sign Location W-MIM-01



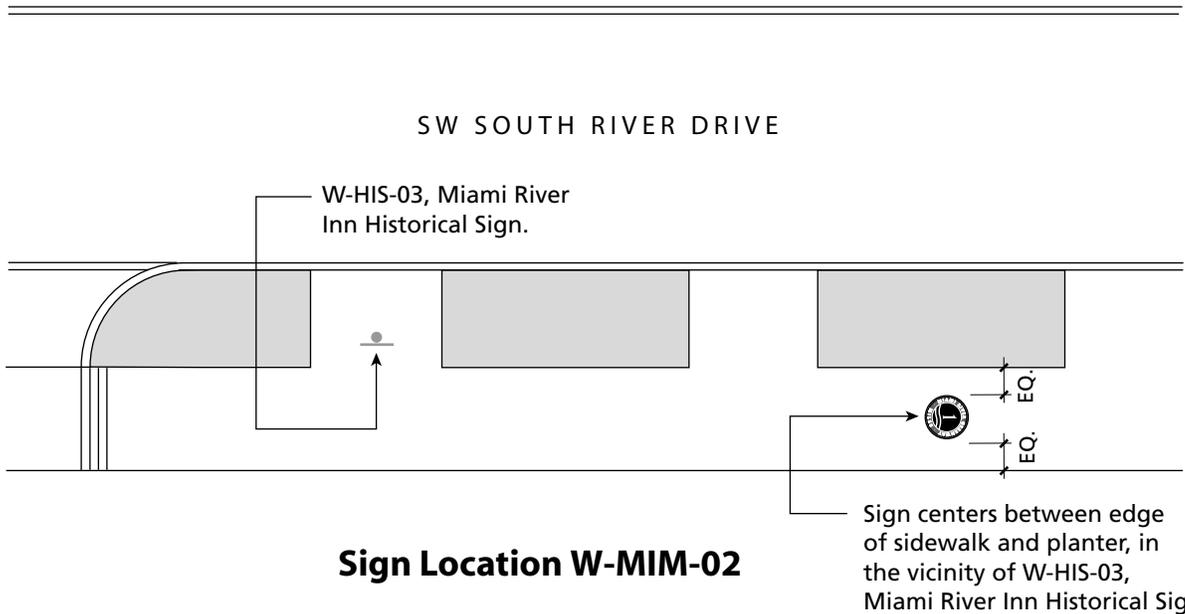
Pedestrian Mile Marker - Sign Messages & Location
Scale: No Scale

Sign Type: **W-MIM**



****Note:**
Fabricator must submit camera-ready layouts of all sign panels to the City of Miami for approval prior to fabrication.

Sign Location W-MIM-02

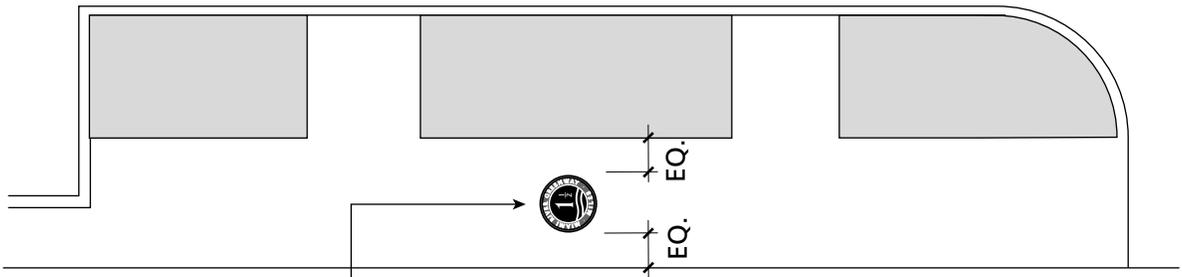


Sign Location W-MIM-02



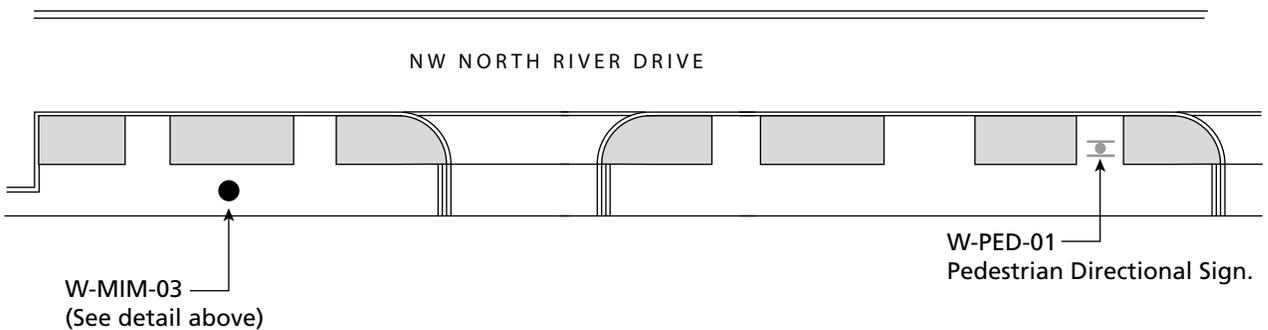
****Note:**
Fabricator must submit camera-ready layouts of all sign panels to the City of Miami for approval prior to fabrication.

Sign Location W-MIM-03



Sign centers between edge of sidewalk and planter, in the vicinity of W-PED-01, Pedestrian Directional Sign.

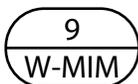
Sign Location W-MIM-03 (Detail)



W-MIM-03
(See detail above)

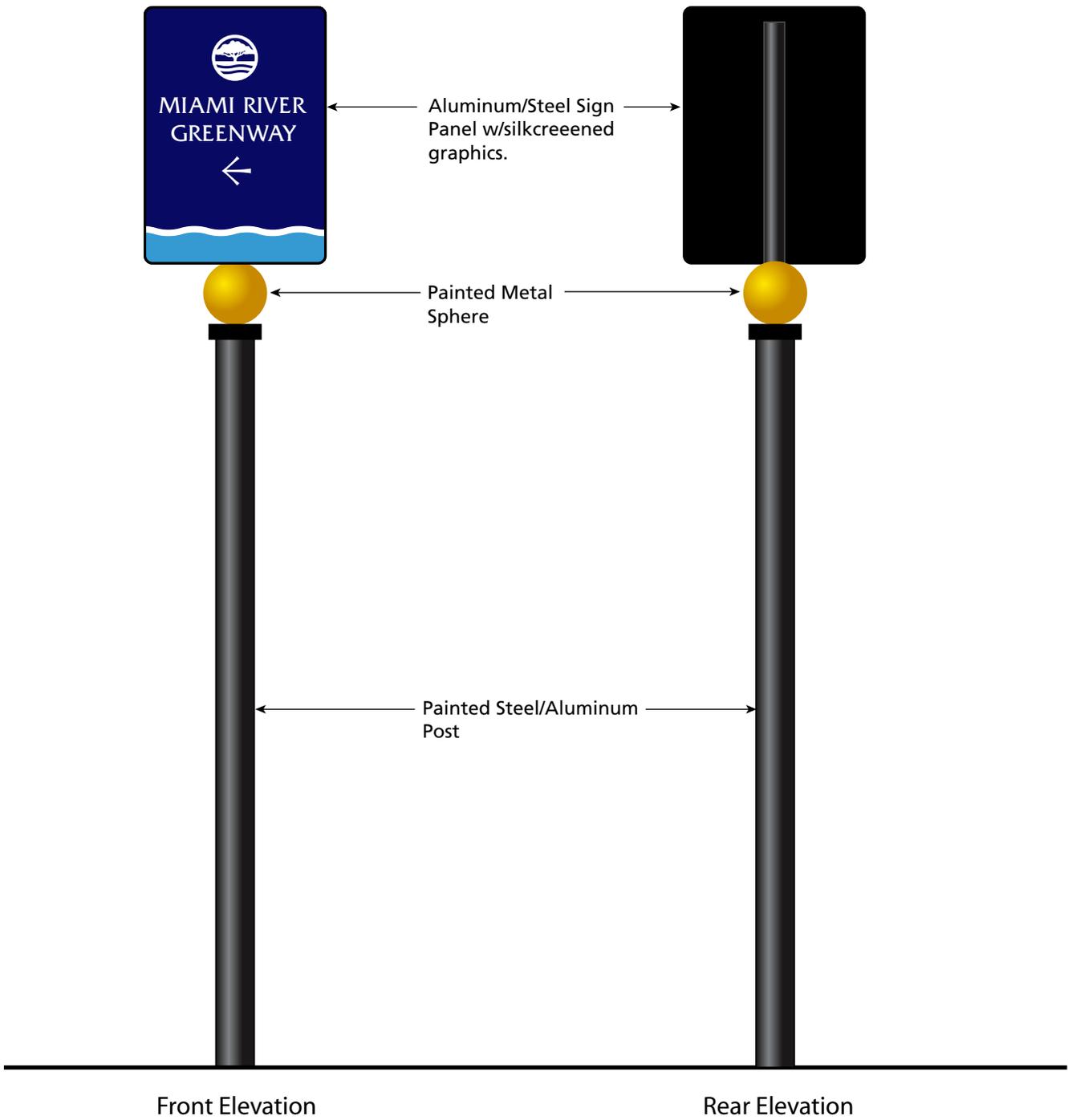
W-PED-01
Pedestrian Directional Sign.

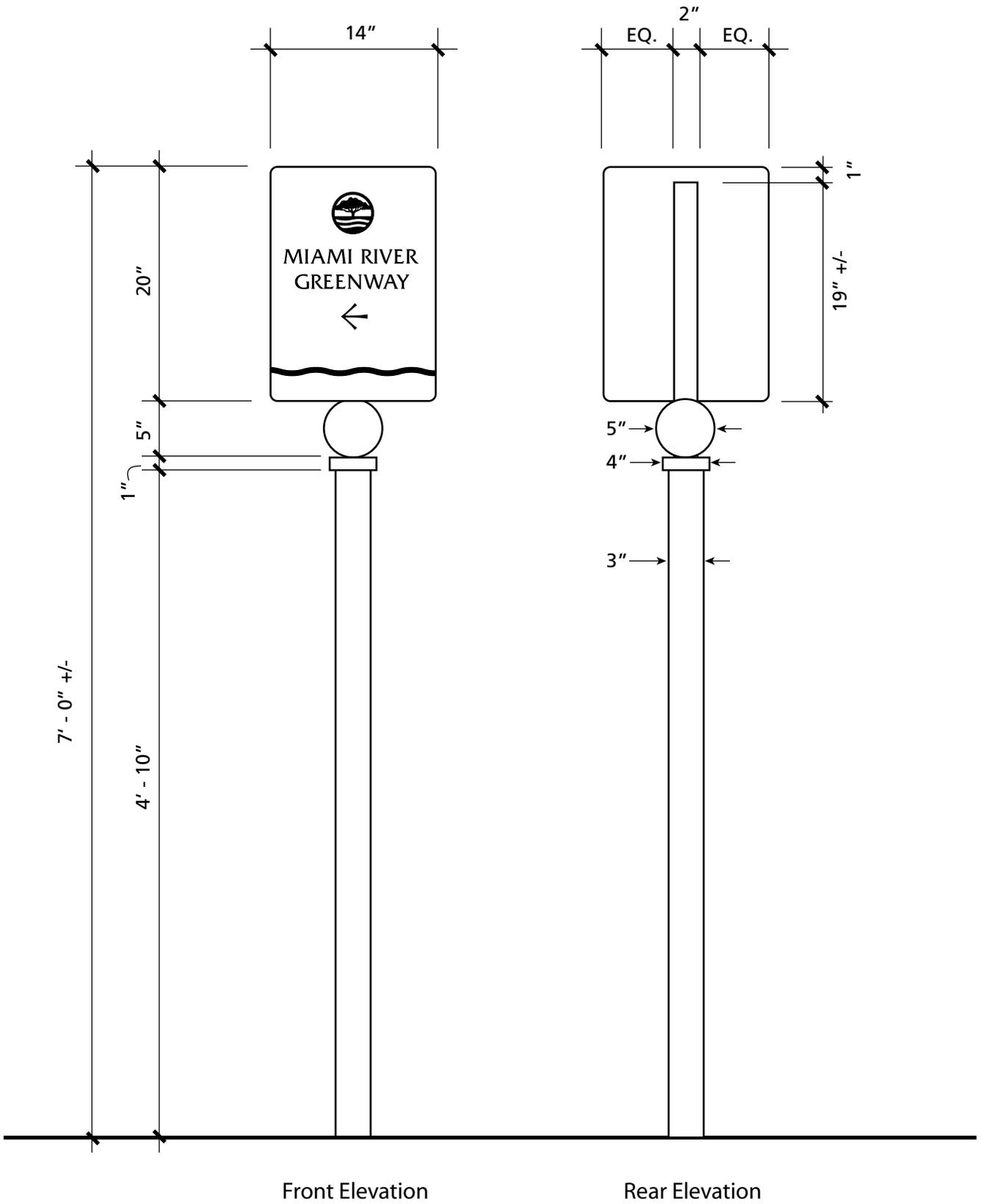
Sign Location W-MIM-03

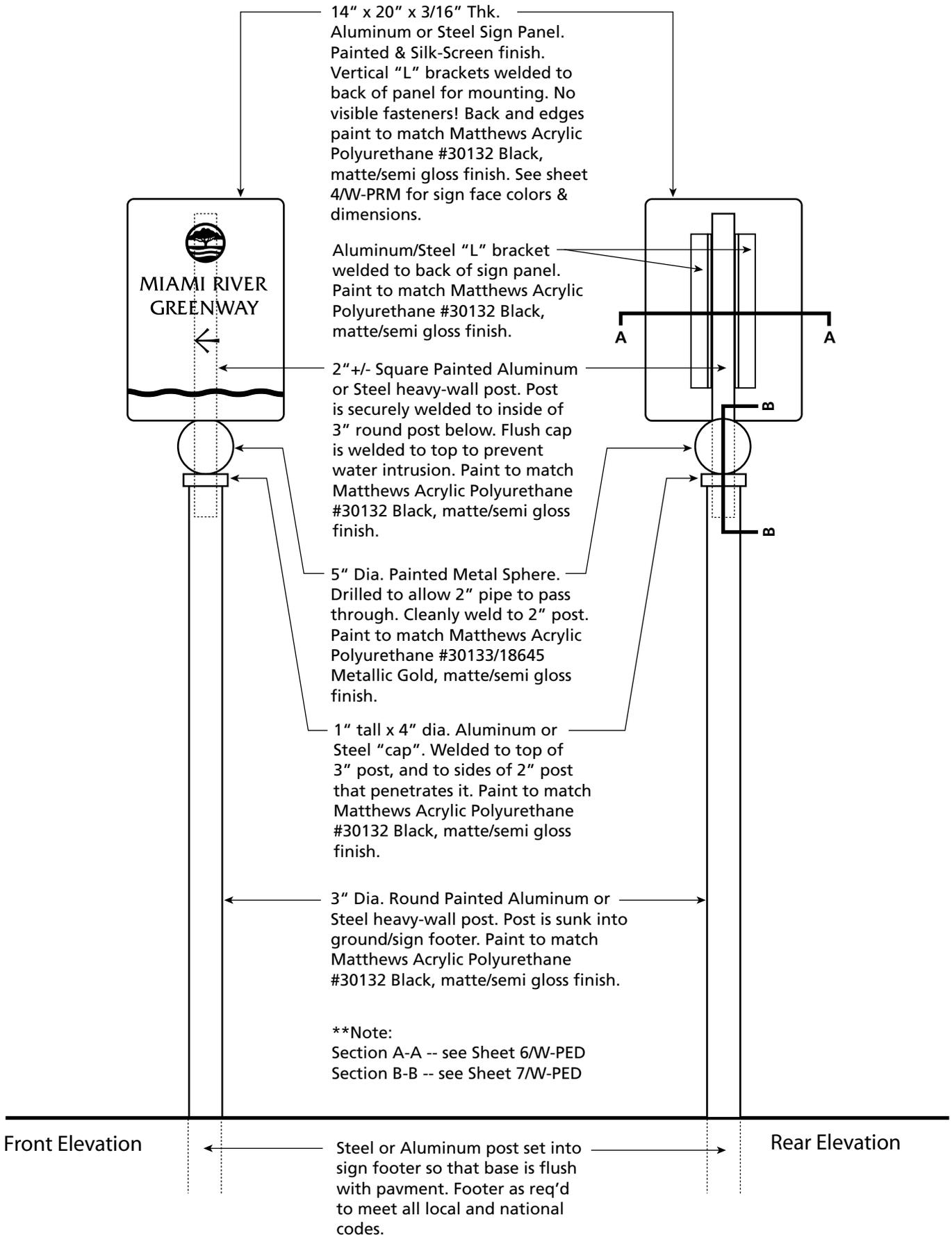


Pedestrian Mile Marker - Sign Messages & Location
Scale: No Scale

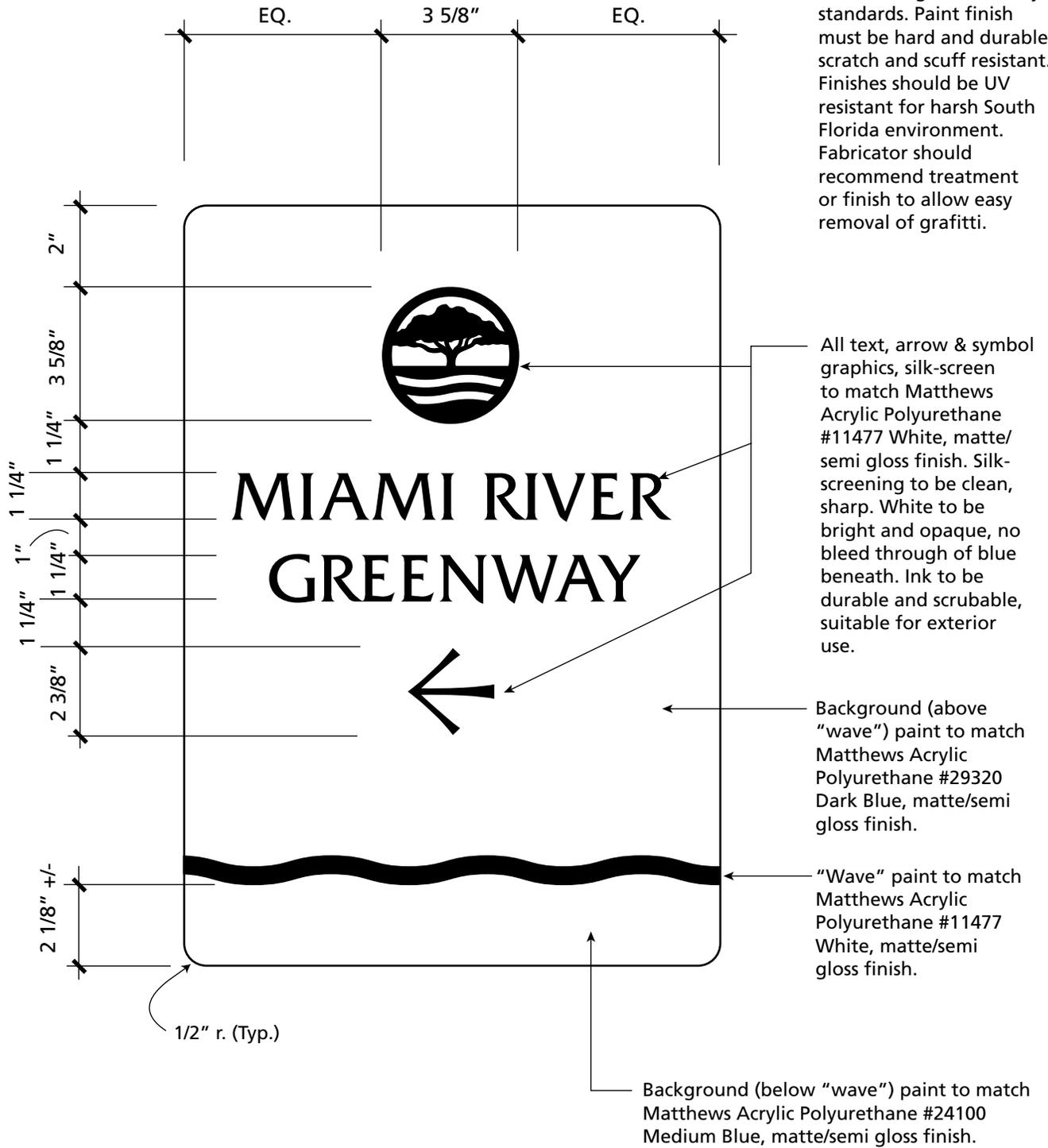
Sign Type: **W-MIM**







****Note:**
 All sign finishes must be applied in accordance with the highest industry standards. Paint finish must be hard and durable, scratch and scuff resistant. Finishes should be UV resistant for harsh South Florida environment. Fabricator should recommend treatment or finish to allow easy removal of graffiti.





Layout A



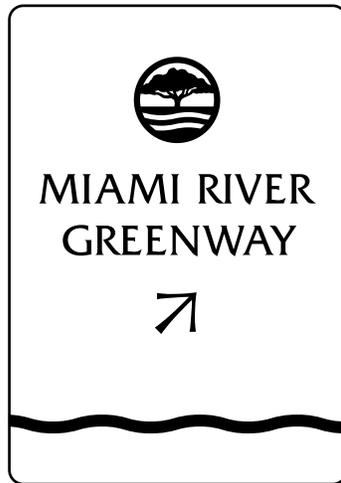
Layout B



Layout C



Layout D



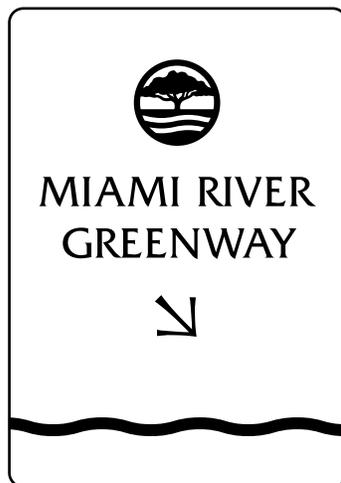
Layout E



Layout F

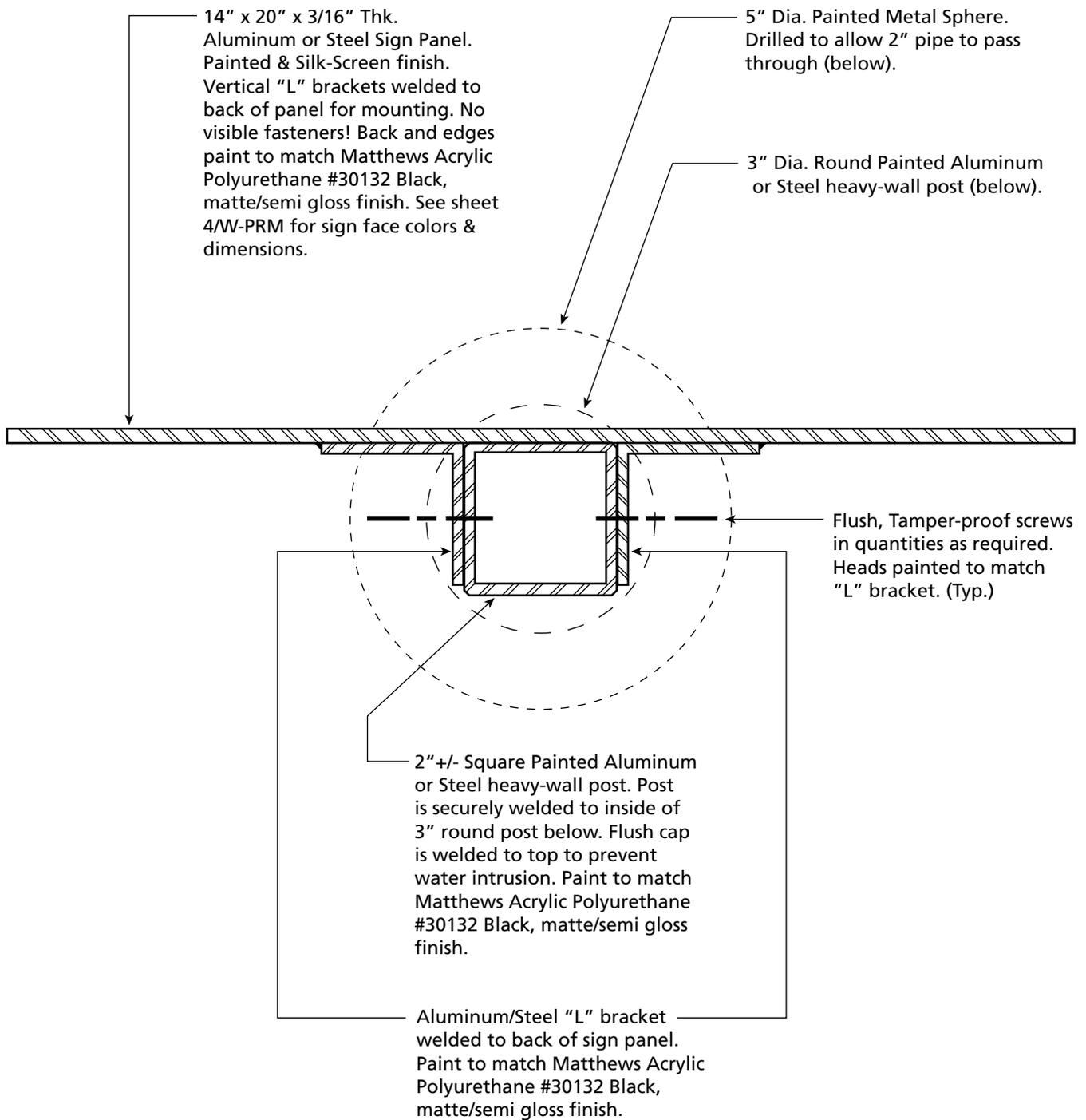


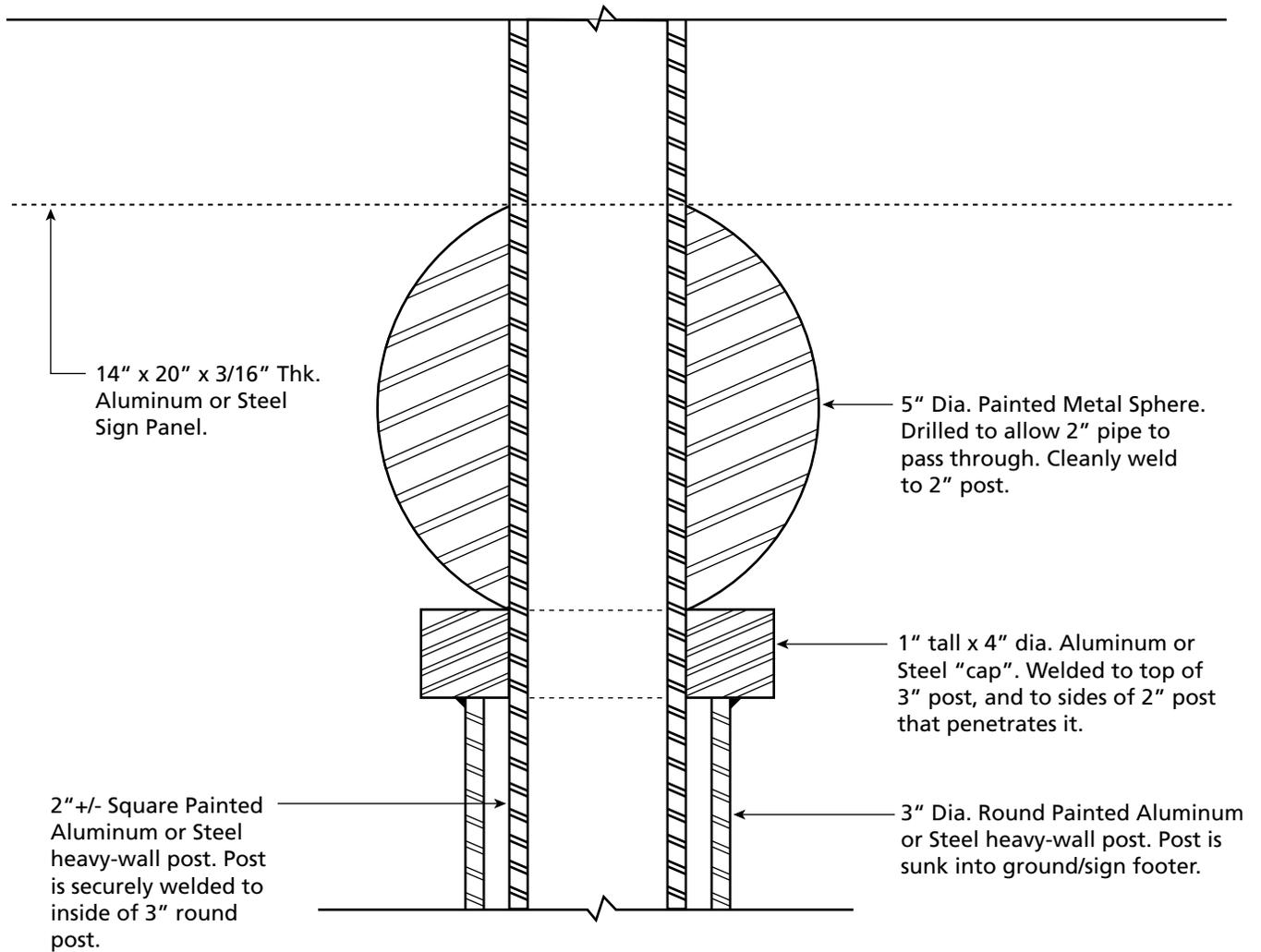
Layout G

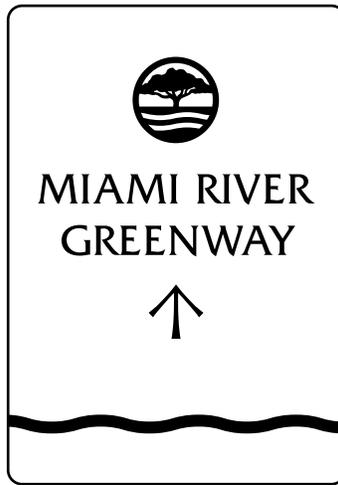


Layout H

**Note:
See Sheet 4/W-PRM for all
dimensions and details.



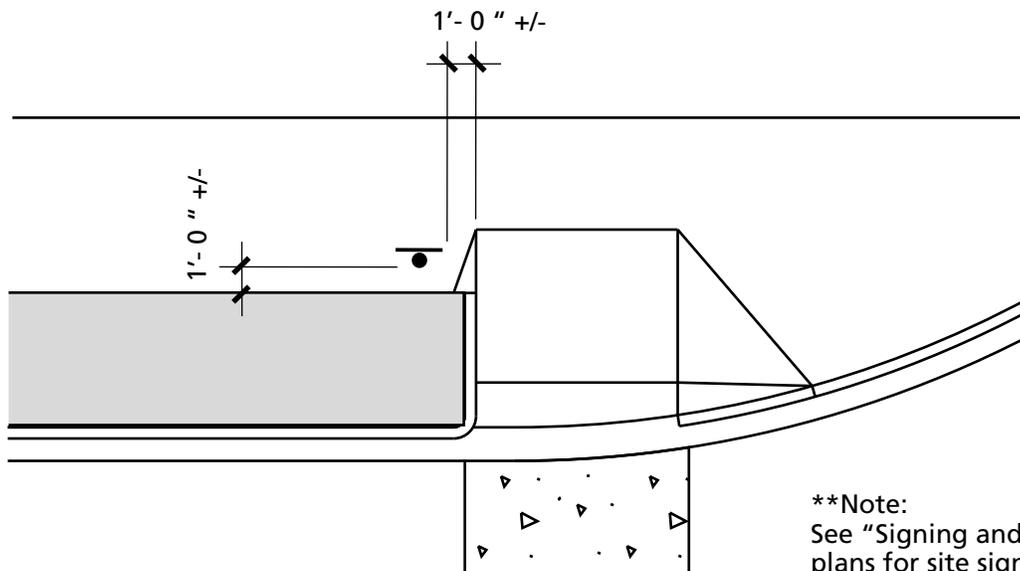




****Note:**
Fabricator must submit camera-ready layouts of all sign panels to the City of Miami for approval prior to fabrication.

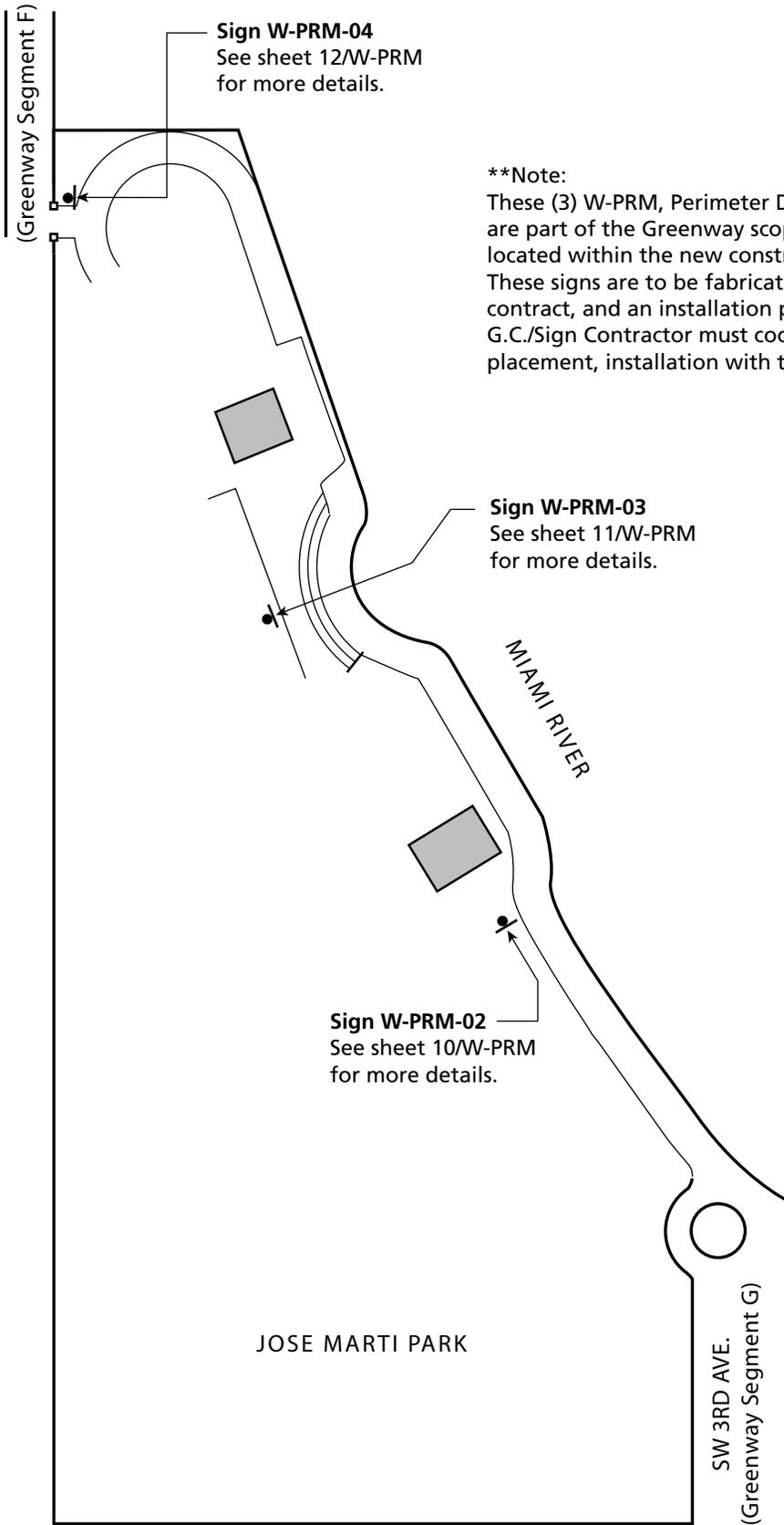
Layout C

Sign Message W-PRM-01



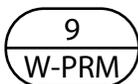
****Note:**
See "Signing and Marking" plans for site sign locations. Diagram here is for install dimensions and orientation.

Sign Location W-PRM-01



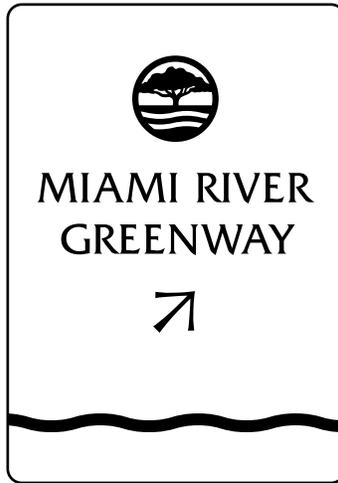
****Note:**
 These (3) W-PRM, Perimeter Directional signs are part of the Greenway scope, but are not located within the new construction zones. These signs are to be fabricated as part of the contract, and an installation price given. G.C./Sign Contractor must coordinate final placement, installation with the City of Miami.

Sign Locations W-PRM-02, W-PRM-03, W-PRM-04



Pedestrian Perimeter Directional - Sign Locations in Jose Marti Park
 No Scale

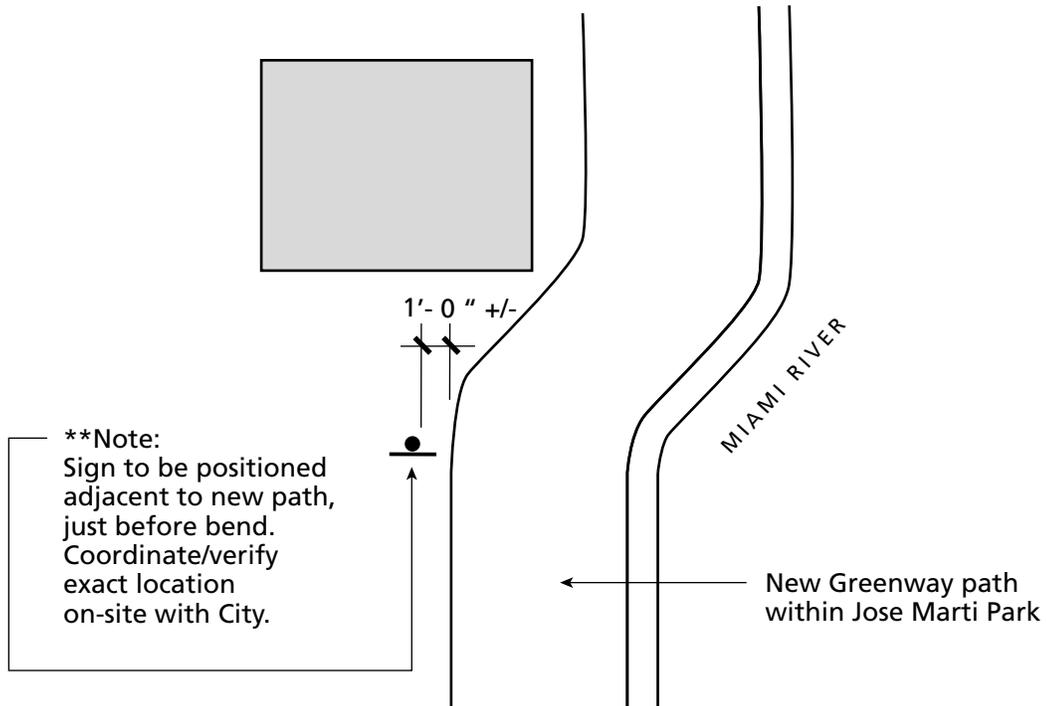
Sign Type: **W-PRM**



****Note:**
Fabricator must submit camera-ready layouts of all sign panels to the City of Miami for approval prior to fabrication.

Layout E

Sign Message W-PRM-02



****Note:**
Sign to be positioned adjacent to new path, just before bend. Coordinate/verify exact location on-site with City.

Sign Location W-PRM-02

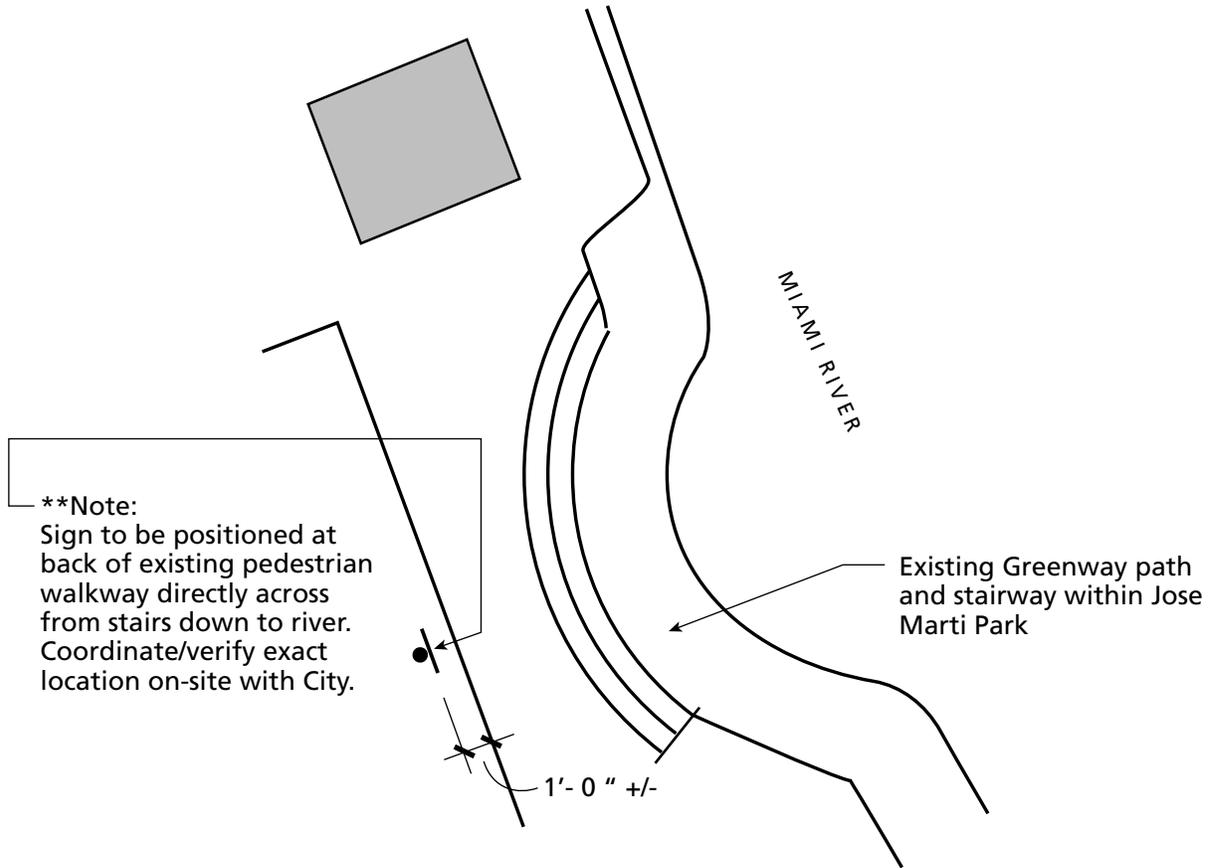
(Intent only, verify all conditions on-site)



****Note:**
Fabricator must submit camera-ready layouts of all sign panels to the City of Miami for approval prior to fabrication.

Layout B

Sign Message W-PRM-03



****Note:**
Sign to be positioned at back of existing pedestrian walkway directly across from stairs down to river. Coordinate/verify exact location on-site with City.

Sign Location W-PRM-03

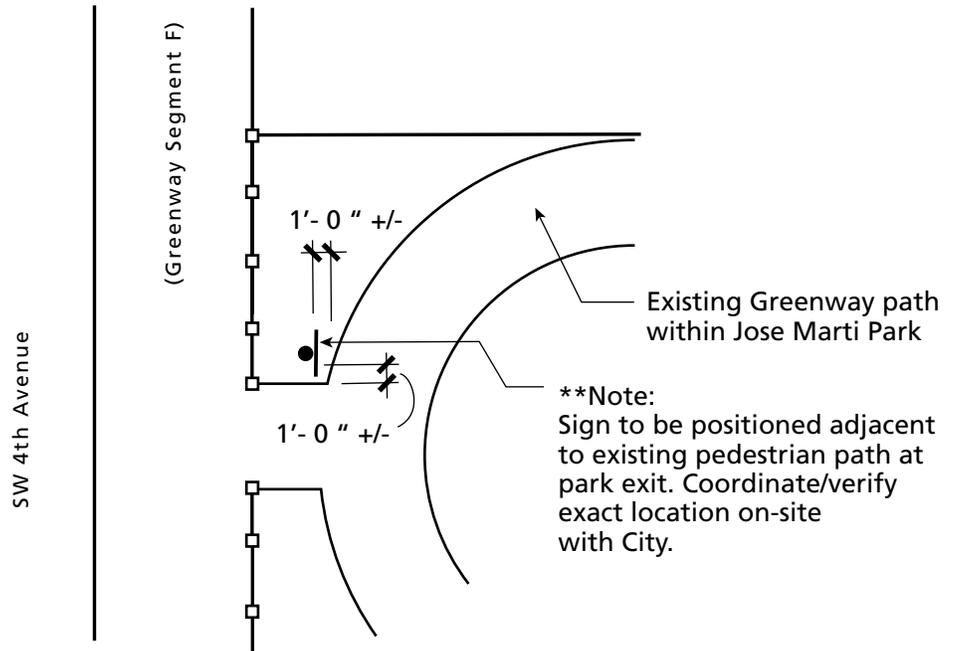
(Intent only, verify all conditions on-site)



****Note:**
Fabricator must submit camera-ready layouts of all sign panels to the City of Miami for approval prior to fabrication.

Layout C

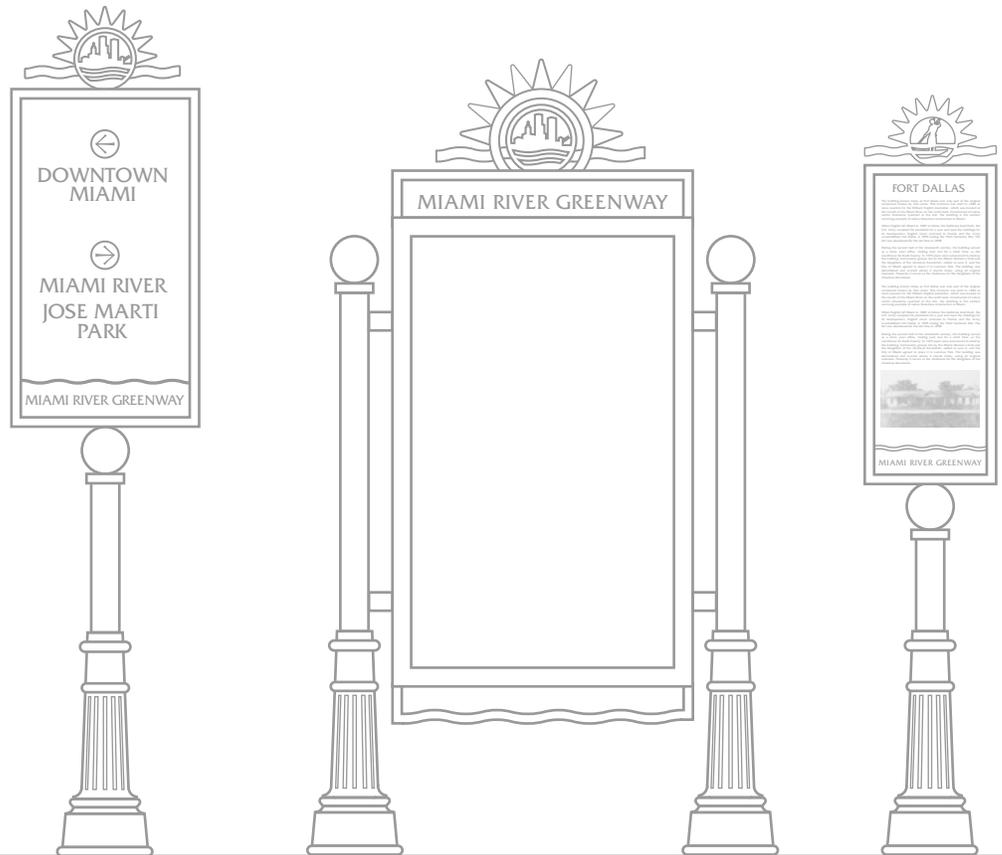
Sign Message W-PRM-04

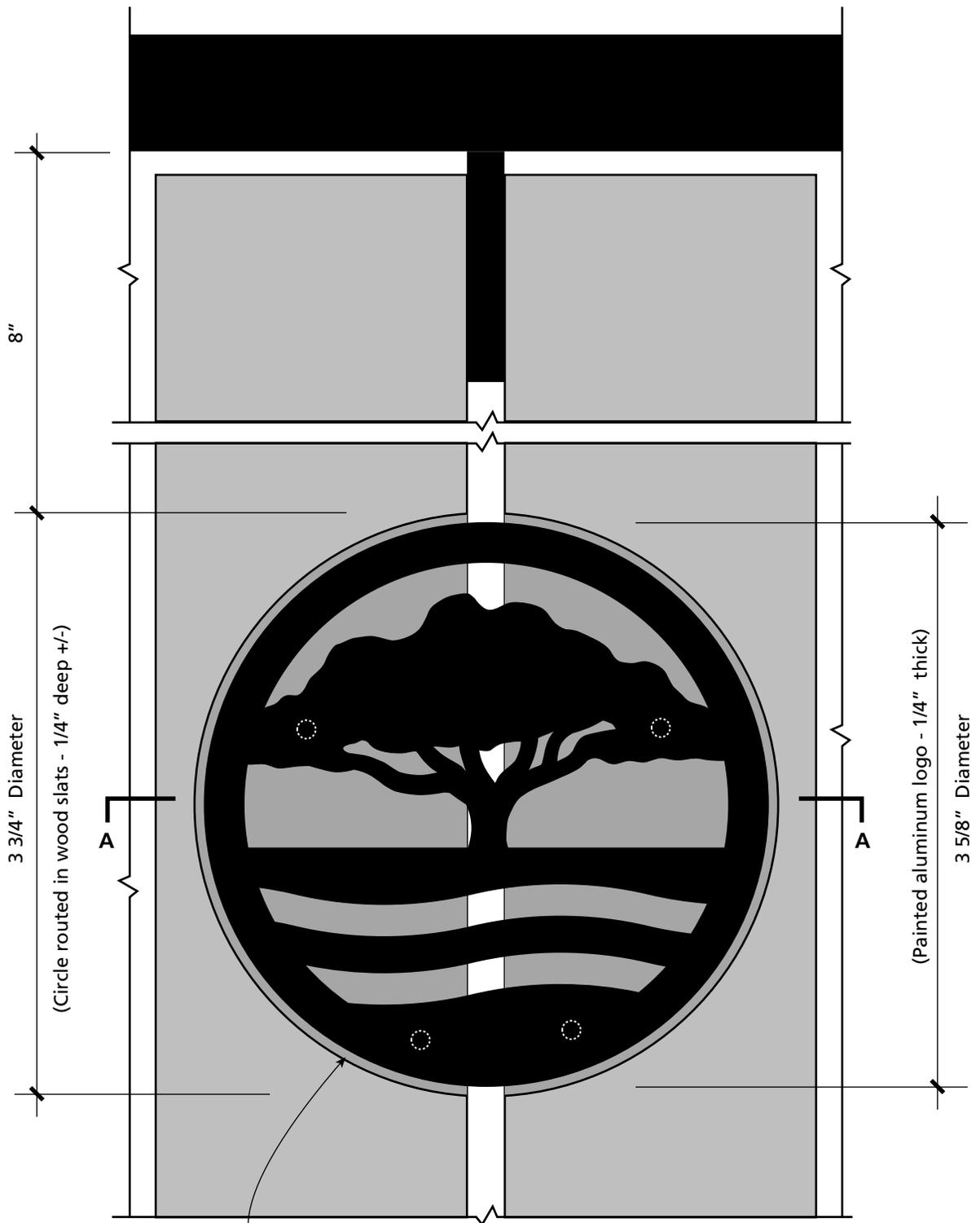


Sign Location W-PRM-04

(Intent only, verify all conditions on-site)

Part Three: Symbol Application

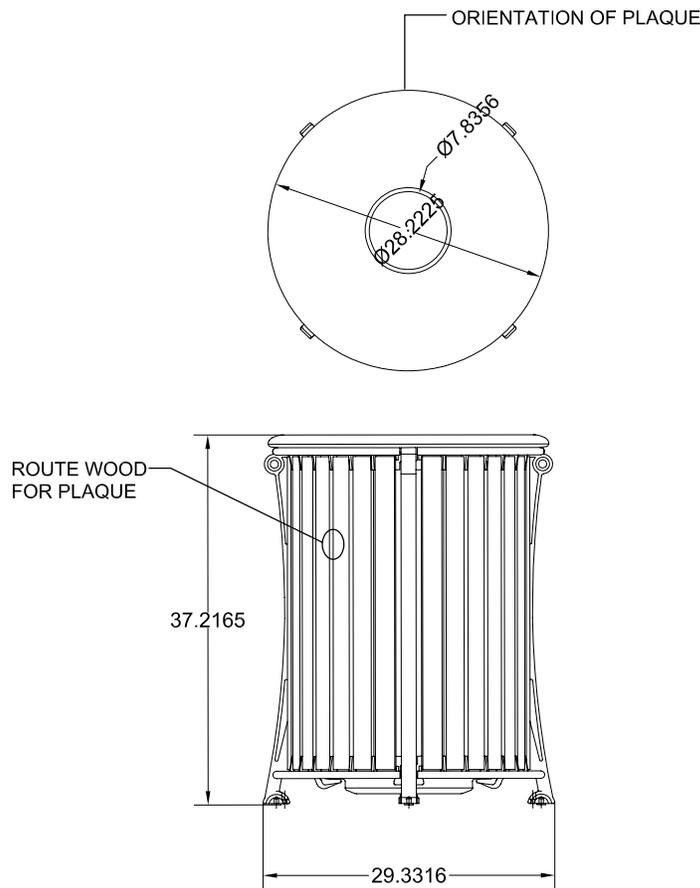




3 5/8" Dia. x 1/4" thick water-jet cut aluminum Greenway Logo. Sets into circle routed in wood. Paint all surfaces to match Matthews Acrylic Polyurethane #30132 Black, matte/semi gloss finish.(typ.) Attaches securely to wood slats with tamper-proof screws through back. No visible fasteners! (1) logo per receptacle, horizontally center on side of unit. Fabricator must verify/coordinate details and dimensions with Trash receptacle manufacturer.

**Note: Trash receptacle fabricator to rout circle in side of wood slats at size and depth to accomodate symbol. Routed wood areashould be cleaned and finished to match face of wood slats. (typ.)

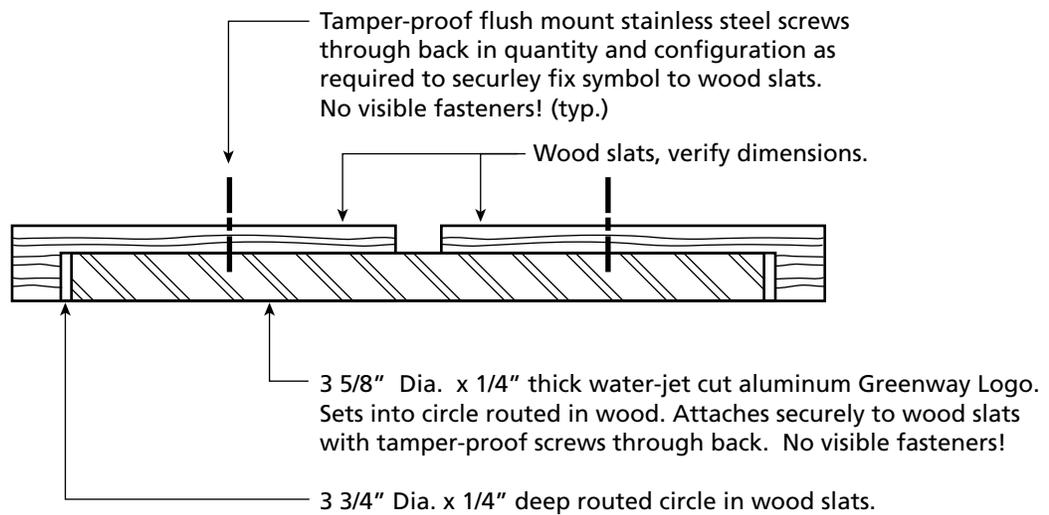
See Sheet 2/W-MISC for Section A-A



Litter Receptacle Spec.
 (by others- for ref. only):
 30" D x 38" H "Plainwell"
 Litter Receptacle; Top opening
 Ipe Wood Side Panel; 35 Gallon
 Surface Mount
 Manufacturer:
 Landscapeforms
 431 Lawndale Ave.
 Kalamazoo, MI 49048
 1-800-521-2546
 269-381-3455 FAX

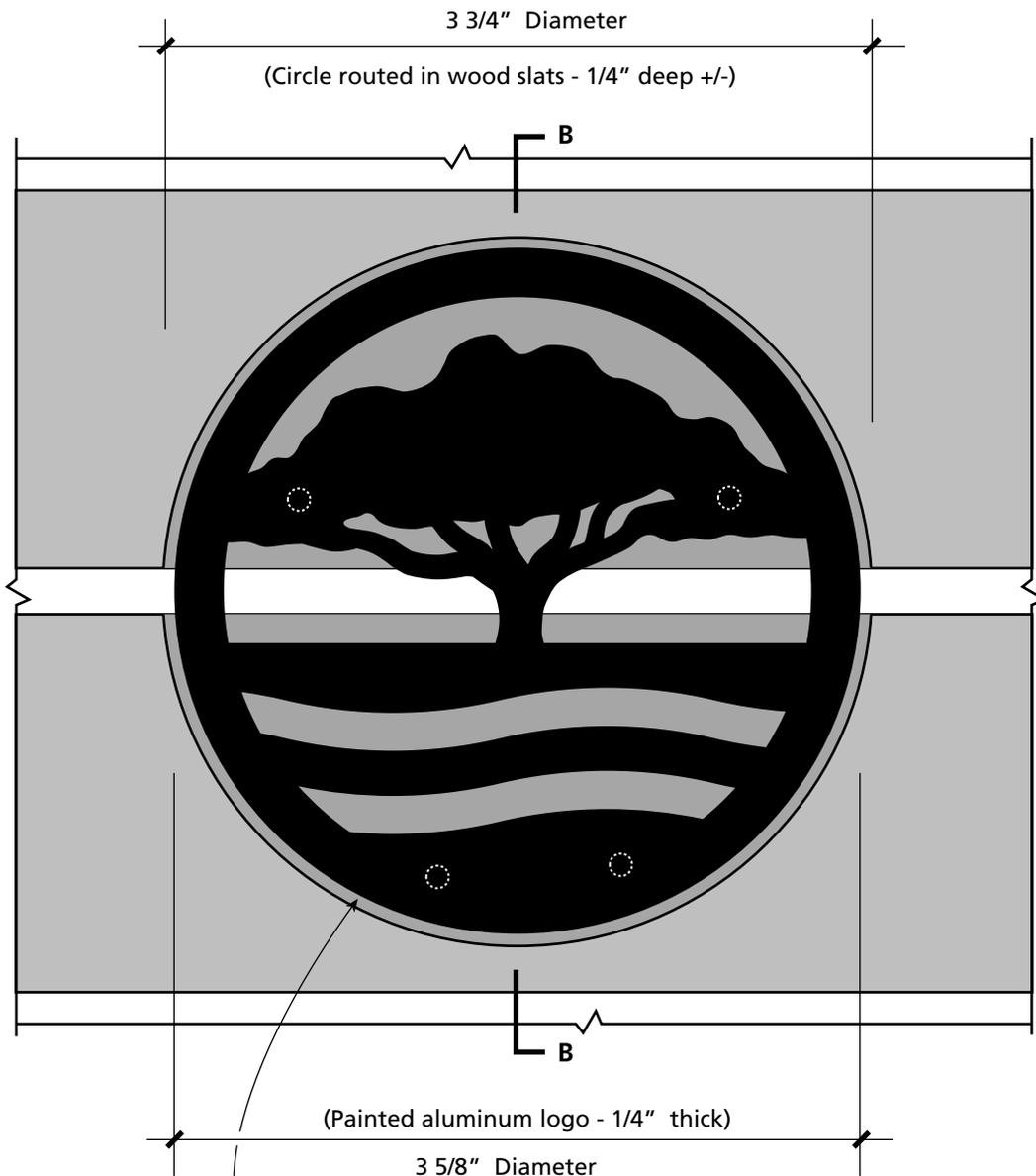
Miami River Greenway Symbol - Typical Trash location

No Scale



Horizontal Section A-A Through Symbol

Scale: Full Size



3 5/8" Dia. x 1/4" thick water-jet cut aluminum Greenway Logo. Sets into circle routed in wood. Paint all surfaces to match Matthews Acrylic Polyurethane #30132 Black, matte/semi gloss finish.(typ.) Attaches securely to wood slats with tamper-proof screws through back. No visible fasteners! (1) logo per bench, horizontally center on backrest of bench. Fabricator must verify/coordinate details and dimensions with bench manufacturer.

**Note: Bench fabricator to rout circle in side of wood slats at size and depth to accomodate symbol. Routed wood area should be cleaned and finished to match face of wood slats. (typ.)

See Sheet 4/W-MISC for Section B-B

