

Arena Interior, Exterior, Rooftop Signage Replacement

RFI Line Items

ECPU:ESTIMATED COST P/UNIT

PMP:POTENTIAL MINIMUM PURCHASE

PAP:POTENTIAL ANNUAL PURCHASE

PF:PURCHASE FREQUENCY

ETD:ESTIMATED DELIVERY TIME

Product name	MFR	MFR product #	ECPU	Min qty	PMP	PAP	PF	ETD	Details
Arena Interior, Exterior, Rooftop Signage Replacement				1			1	21	SEE ATTACHED SCOPE
Totals									

Arena Interior/Exterior Signage Replacement - Naming Partner

SCOPE OF WORK:

Removal, fabrication, placement and replacement of existing Arena name signage with new Arena name signage throughout the facility, including internal illuminating signs. Locations include, but are not limited to:

1. Exterior signage at entry points and retail store
2. Exterior monument sign
3. Rooftop signage
4. Interior arena bowl signage
5. Interior event level signage
6. Interior Mezzanine Level/Business Operations signage
7. Interior Mezzanine Main Entrance Area
8. Interior 100 Level Main Concourse
9. Interior 200 Level
10. Interior 300 Level Upper Concourse
11. Interior 400 Level Balconies
12. Interior Press Level
13. Exterior and Parking P1 Garage
14. Exterior and Parking P2 Garage
15. Exterior various location
16. Interior Mezzanine Office Lobby
17. Interior various locations

APPROXIMATE PROJECT COST: \$400,000

GENERAL REQUIREMENTS:

- A. Furnishing all labor, operations, materials, accessories, incidentals, services and equipment (exclusive of pre-purchased or Owner provided materials, accessories and/or equipment) indicated, specified, mentioned, scheduled or implied in this Scope of Work.
- B. Fabricate and install full-scale signs.
- C. Provide renditions or mock-ups as requested by Arena.
- D. Capacity of employees and firm to perform the work within the specified time period: Capacity of employees and firm, including all consultants and their representatives, qualifications and locations, to perform the work, including specialized services, within the time limitations. Provide detailed project schedule for scope of work.
- E. Warrant to the Arena in writing that the materials and equipment furnished will be high quality and free of defects and equipped to sustain South Florida weather.
- F. Warrant to the Arena in writing that the all the paint finishes and the protective clearcoat finishes furnished will be high quality, free of defects in appearance or application, will not develop excessive fading or excessive non-uniformity of color, and will not yellow, crack, peel, or otherwise fail as a result of defects in materials or workmanship, for a period of at least seven (7) years beginning at the time of Final Payment/Acceptance by the Arena.
- G. All work shall be performed by skilled professionals and shall be executed in a workmanlike manner in accordance with the best standards and practices of the trade and shall be repaired in kind by skilled professionals of the trades involved.
- H. Arena will provide logo to be utilized for project.
- I. Internally illuminated graphics shall be completely, evenly, and adequately lit without thin spots, shadows, halos, or hot spots. Opaque sign faces and components must be completely and evenly opaque without thin spots, shadows, halos, or light leaks.
- J. All electrical and lighting components provided shall be UL listed. Identify in the Shop Drawings the materials and wiring to be used. Internally illuminated signs shall be internally wired with concealed leads for connection to the electric power service.

- K. All the light fixtures and related components used with the internally illuminated signs shall comply with all applicable codes including, but not limited to, the State of Florida Electrical Code and the National Electrical Code. All the light fixtures and related components used with the internally illuminated signs shall comply with all applicable UL, ANSI, and NEC safety and performance standards and all other applicable safety and performance standards. Illuminated signs shall be UL approved.
- L. Vendor submitting a proposal agrees that all data, records and information which proposer, its agents and employees obtain access to, create, and which are the subject of this proposal, remain at all times exclusively the property of the Arena. It is also agreed that all such data, records and information constitute, at all times, proprietary information of the Arena and that proposer will not disclose, provide or make available any such proprietary information in any form to any person or entity. In addition, vendor submitting a proposal further agrees that it will take reasonable steps and the same protective precautions to protect Arena's proprietary information from disclosure to third parties as with the proposer's own proprietary and confidential information.

SUBMITTALS:

- A. Product Data - Submit manufacturer's technical data, preparation, installation, storage, handling, and maintenance instructions for all the materials, components, and applied finishes used for the Work. At a minimum, provide Product Data for the following:
 - 1. All metal materials and components.
 - 2. All acrylic, polycarbonate, and PVC materials and components.
 - 3. All concrete.
 - 4. All mounting components and hardware.
 - 5. Standard and custom extrusions.
 - 6. Each manufactured component used within fabricated assemblies.
 - 7. Shop applied painting, and priming systems.
 - 8. Field applied painting and priming systems.
 - 9. All UV resistant clearcoat finishes.
 - 10. Adhesives and sealants.
 - 11. All vinyl graphic sheeting, films, and overlaminates.
 - 12. Silkscreen and inkjet printing inks.
 - 13. Electrical components.
 - 14. All lighting components, lamps, and fixtures.
 - 15. All embedded graphic panels.
 - 16. All LED dynamic displays and related components.
 - 17. Installation accessory materials for each type and condition as applicable.
- B. Prior to the start of fabrication, submit complete and detailed Shop Drawings for all sign types and all sign components. Shop Drawings shall show all sign fabrication and mounting methods, materials, dimensions, and details. Show all the final sign locations in the Shop Drawings.
- C. All sign structural and mounting components shall be professionally engineered. Submit Shop Drawings that have been signed and sealed by a qualified professional structural engineer, licensed in the State of Florida, for all sign structures, sign supports, sign posts, sign mounting methods, sign mounting components and hardware, adhesives, embeds, fabricated sign bases, and all other sign structural and mounting components.
- D. Submit Samples of all the materials, finishes, fixtures, fittings, and hardware.

MATERIALS AND MANUFACTURERS:

- A. Source Quality Control
 - a. Obtain primary materials from a single manufacturer.
 - b. Provide secondary materials only as recommended by the manufacturer of the primary materials.
 - c. Do not change source or brands of materials during fabrication.
- B. Aluminum
 - a. Provide high-grade material of alloy and temper as best suited to furnish the finish and strength required. Provide all aluminum extrusions, plate, sheet, castings, hardware, and all other aluminum sign components as required.
 - b. Brushed aluminum shall have a Number 4 brushed finish, horizontal grain. Brushed aluminum shall have a non-glare protective clearcoat. The non-glare protective clearcoat shall conform to all applicable ADA guidelines and requirements.

- C. Steel
 - a. Provide high-grade material of alloy and temper as best suited to furnish the strength and finish required. Provide all steel sheets, plates, channels, shapes, and all other steel sign components as required.
 - b. Sheet Steel – cold rolled into channels and other shapes, galvanized, primed. Thickness of material shall be determined by the Contractor to provide the finish and strength required.
 - c. Structural Steel – When structural steel is required, all steel supports, shapes, pipes, plates, hardware, etc. shall comply with all applicable standards.
 - d. Stainless Steel
 - i. Type 316
 - ii. Brushed stainless steel shall have a Number 4 brushed finish, horizontal grain.
 - e. Provide high grade stainless steel for etched symbol panels of alloy and temper as best suited to furnish the performance required for production of durable, high quality etched graphics while also providing high strength, corrosion resistance, and vandal resistance
 - f. Galvanized Steel
 - i. Galvanize steel using the hot-dip process.
 - ii. Meet all the requirements of all applicable ASTM, AASHTO, and IDOT specifications, standards, guidelines, requirements, performance criteria, rules, and regulations for zinc (hot-dip galvanized) coatings on iron and steel sign supports, hardware, and components.
- D. Acrylic Sheet
 - a. Provide scratch-resistant and UV-resistant clear, clear non-glare, and translucent acrylic sheets as required.
- E. Polycarbonate Sheet
 - a. Provide scratch-resistant and UV-resistant clear, clear non-glare, and translucent polycarbonate sheets as required.
- F. Black and White Acrylic and Translucent Day/Night Acrylic Sheeting for Internally Illuminated Signs
 - a. Provide acrylic sheeting designed to appear black during the day and white at night with back lighting as required.
- G. Sintra Panels and Sheets
 - a. Provide Sintra panels and sheets as required
- H. Threaded Fasteners
 - a. ASTM A 300 Series Grade A non-magnetic stainless steel.
 - b. Vandal and tamper resistant screws – Stainless steel, vandal-resistant, and tamper resistant drilled spanner drive screws or equal as accepted by the General Manager and VP of Operations.
 - c. All hardware for exterior applications, or for applications where signs will be exposed to high moisture conditions, shall be of non-magnetic stainless steel, or of other non-magnetic corrosion-resistant material accepted by the General Manager and VP of Operations.
- I. Strap Mounting Components for Signs
 - a. Provide durable, heavy duty, high strength, exterior-grade, stainless steel straps, stainless steel clips, stainless steel brackets, and all other required components and hardware needed to safely, securely, and permanently strap mount sign assemblies to existing columns, existing light poles, and other similar existing structures.
 - b. Size the mounting straps and brackets as required to safely, securely, and properly support the signs to be strap mounted.
- J. Adhesives
 - a. Provide high quality, high-strength, high-performance, permanent adhesives as required. Adhesives shall be suitable for the components being adhered and the locations where the components are to be mounted or installed.
 - b. Adhesives shall not react with surface finishes.
 - c. All adhesives, sealants, and sealant primers installed in any building interior (defined as inside of the weatherproofing system and applied on site) shall meet the requirements identified in LEED for New Construction 2009, Version 3, Credit EQ 4.1: Adhesives and Sealants.

- i. Submit certification demonstrating that all adhesives, sealants, and sealant primers installed shall meet the testing and product requirements of the Southern Coast Air Quality District (SCAQMD) Rule 1168 and volatile organic compound (VOC) limits listed in LEED for New Construction 2009, Version 3, Credit EQ 4.1: Adhesives and Sealants.
- ii. Submit certification demonstrating that all aerosol adhesives installed in any building interior shall meet the testing and product requirements of the Green Seal Standard GS-36.

K. Wayfinding Signs with Raised Characters, Raised Graphics, and Braille

- a. Wayfinding signs with raised characters, raised graphics, and Braille shall conform to all ADA specifications, guidelines, regulations, and requirements indicated for materials, thickness, finish, colors, designs, shapes, sizes, and details of construction. Installed dimensional tolerances shall be plus/minus 1/16 of an inch.
- b. The wayfinding signs with raised characters, raised graphics, and Braille shall be produced using 1/8-inch (1/8") thick etched zinc. The zinc material shall be of alloy and temper as best suited to furnish the finish and strength required to conform to all ADA specifications, guidelines, regulations, and requirements.
- c. The faces of the wayfinding signs with raised characters, raised graphics, and Braille shall have painted backgrounds and contrasting copy and graphics.
- d. Raised characters and raised graphics shall be relieved 1/32-inch (1/32") minimum from the plaque first surface by the manufacturer's photomechanical stratification process. Precisely formed, uniformly indicated for size, style, spacing, content, position, and color. Flat faces of raised characters and graphics shall be evenly and opaquely colored using silkscreen tipping with enamel ink suitable for printing on the sign face material and finish.
- e. Braille shall conform to all relevant ADA specifications, guidelines, regulations and requirements indicated for size, style, shape, spacing, content, position, and color. Braille shall be Grade 2. The Contractor shall translate the sign copy to appear in Braille.
- f. Materials and finishes for all wayfinding signs with raised characters, raised graphics, and Braille shall be suitable for use in either interior or exterior locations. The signs shall have an appropriately formulated, protective, UV-resistant, non-glare clearcoat. The non-glare clearcoat shall conform to all applicable ADA guidelines and requirements. Sign finishes shall conform to all ADA specifications, guidelines, regulations, and requirements for gloss level. There shall be no sharp or rough edges on the signs.
- g. Wayfinding signs with raised characters, raised graphics, and Braille shall be safely, permanently, properly, and securely mounted to interior and exterior walls without visible fasteners. Unless otherwise indicated, each sign shall have a 1/8-inch (1/8") thick acrylic backer panel. Each backer panel shall be safely, properly, permanently, and securely attached to the wall with appropriate, exterior grade mechanical fasteners and anchors. Sign panels are then safely, properly, permanently, and securely mounted to the backer panels with appropriate, high-strength, exterior grade double coated 3M VHB tape and silicone (silastic) adhesive.

L. LED Sign Lighting Components

- a. Provide all required LED sign lighting fixtures and all related components from acceptable LED sign lighting component manufacturers or as indicated or required by Arena.
- b. Determine the type of fixture, the quantity, layout, and spacing of the lighting units required to provide bright, even illumination of the wayfinding sign faces. The lighting units and all related components shall all be designed for use in signage and shall all be suitable for use in exterior locations.
- c. Provide LED fixtures that produce a mid-range/warm white color temperature.
- d. Provide all the required components, hardware, ballasts, transformers/power supplies, conduit, and wiring necessary.

TIMELINE:

- Procurement of materials and installation of must be completed within three (3) weeks of vendor approval.
- Vendor must coordinate install date with Director or Vice President of Operations.
- Vendor must submit a schedule of anticipated workdays to Director of Operations for approval and must account for events as follows:
 - Event Days – crews allowed onsite from 7am–3pm when the event occurs in the evening;
 - Crews will not be allowed onsite when an event occurs in the morning and/or afternoon (e.g., Disney on Ice matinees and school shows); and
 - Non-Event Days – crews allowed onsite for extended hours as needed.

WARRANTY:

- Manufacturer to provide a limited warranty of seven (7) years on all materials used from the date of installation.

REQUIREMENTS:

- The proposed Vendor must have the following experience and certifications:
 - Must be a firm with at least ten (10) years of successful experience with projects of similar scope. The Vendor shall be a full-service sign company and shall have in-house sign fabrication and installation capabilities, including the ability to manufacture and install internally illuminated signs. The Vendor shall be a member of a recognized professional sign organization including, but not limited to, SEGD or ISA
 - Vendor shall provide a list of a minimum of five (5) facilities (facility, contact name, title, address and current phone number) where the Vendor has provided interior/exterior signage replacement and installation projects of equivalent size and scope within the last five (5) years.
 - Vendor must have minimum ten (10) years of experience for technicians, installers, and fabricators working with their firm.
 - Provide U/L certification under Vendor's name.
 - Vendors' heavy machine operators must have proper certification as required.
 - Meet all deadlines to ensure successful implementation.

INSURANCE:

- Vendor shall purchase and maintain during the entire project and for two years after project completion insurance with the minimum limits and coverage shown below from insurance companies acceptable to Basketball Properties, Ltd. ("BPL"). BPL has the right to reject unacceptable insurance carriers.

STANDARD INSURANCE REQUIREMENTS	
Coverage Type	Limits
General Liability	\$1,000,000 Per Occurrence; \$2,000,000 General Aggregate; \$2,000,000 Completed Operations Aggregate
Auto Liability (All Hired Non-Owned)	\$1,000,000 for all jobs
Worker's Compensation	Statutory Limits; \$1,000,000 Employers Liability

- Vendor shall carry standard ISO General Liability coverage, written on an occurrence basis including Completed Operations. Coverages on an occurrence basis shall be maintained without interruption from date of commencement of the Vendor's Work until date of final payment or date coverage is required to be maintained after final payment to the Vendor, whichever is later. The coverage must be endorsed to name Basketball Properties, Ltd., City of Miami, and Miami-Dade County as additional insureds on a primary and non-contributory basis.