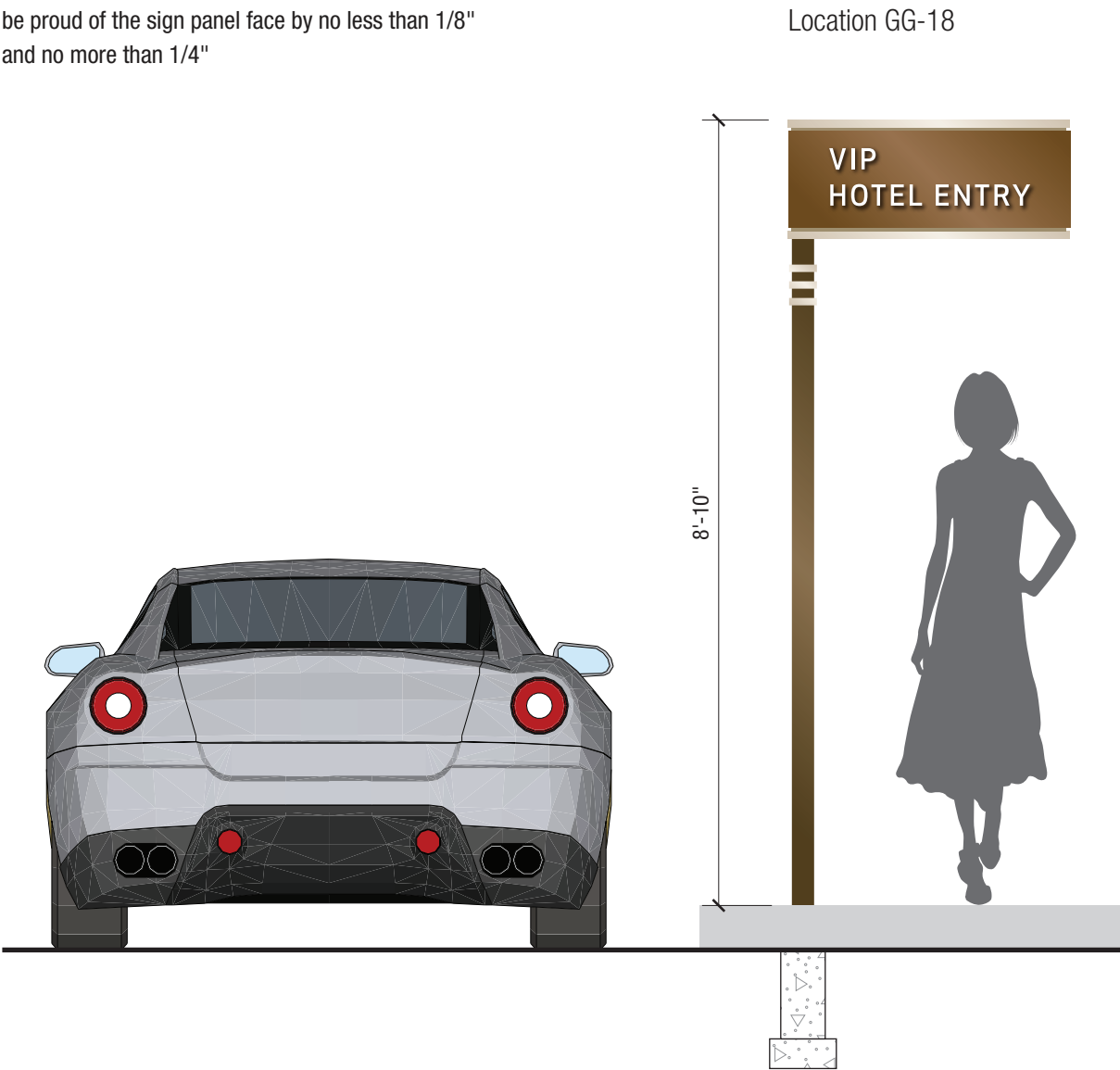


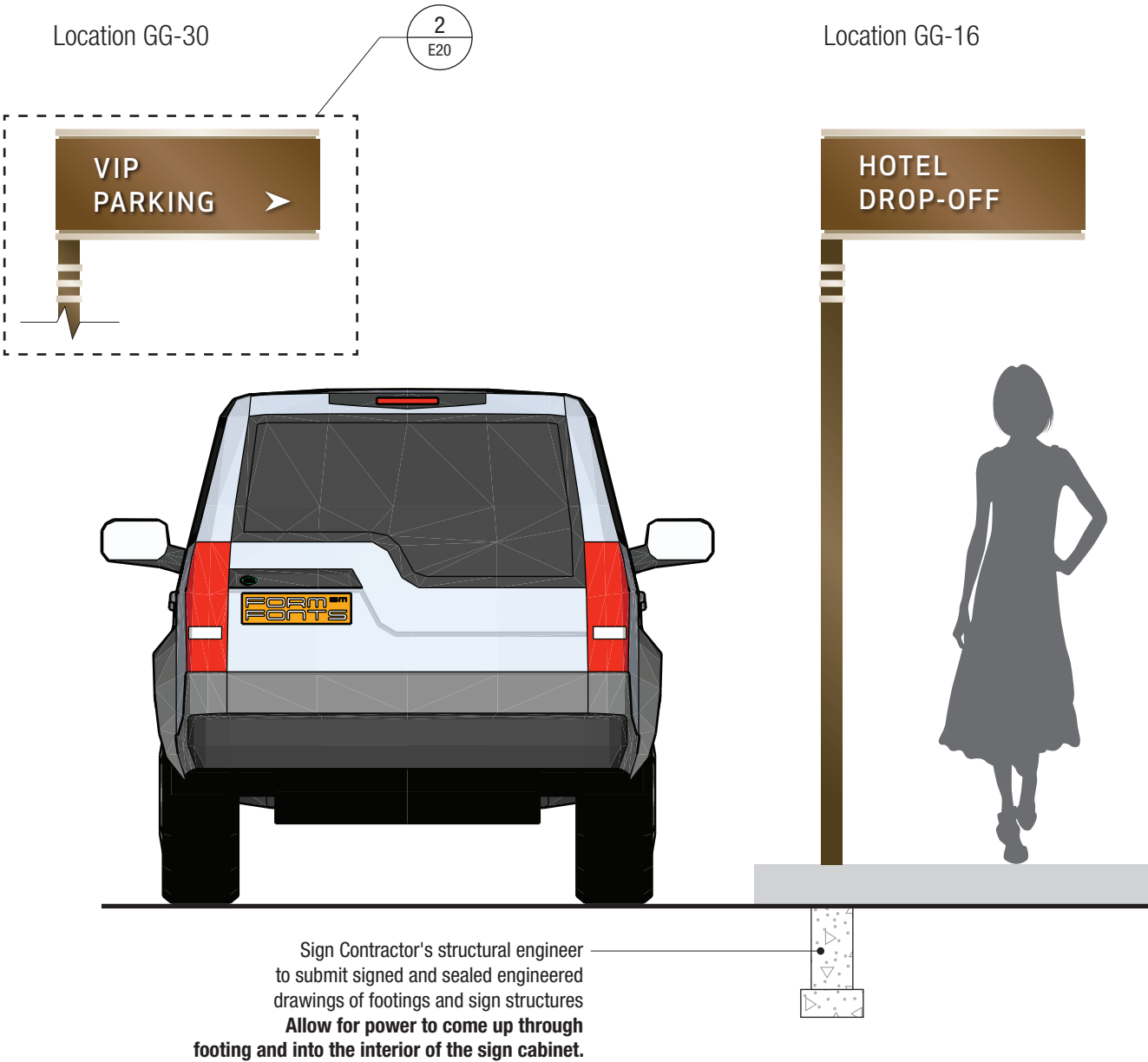
- General Notes:
- Electric to be pulled to locations by others. Sign Contractor is responsible for electrical hook up.
 - All lighting to be internal LED with no light leaks. Vents shall be shielded to prevent light leak.
 - Internal lighting to be even across all messages with no hot or cool spots.
 - Lighting color temperature to be ____K
 - All footings to be provided by GC. Sign Contractor to coordinate with GC on structural requirements.
 - Field verify all locations for proper power and footings.

Push Through Acrylic
All push-through acrylic shall be cut true to the letter, glyph and symbol forms - rounded corners will not be acceptable. Push-through acrylic shall be proud of the sign panel face by no less than 1/8" and no more than 1/4"



1 ELEVATION
SCALE: 1/2"=1'-0"

- * All messages to be confirmed and approved by Owner
- * Artwork for all messages to be provided by KO



2 ELEVATION
SCALE: 1/2"=1'-0"

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www.kikuobata.com

Owner:
Hard Rock International

Client:
SOSH Architects
1020 Atlantic Avenue
Atlantic City, NJ 08401
609-345-5222

Authorized Use:
Bid Set

Issue Date: February 15, 2018

Revisions:			
No.	Date	Description	Drawn By
1	-	-	
2	-	-	
3	-	-	
4	-	-	
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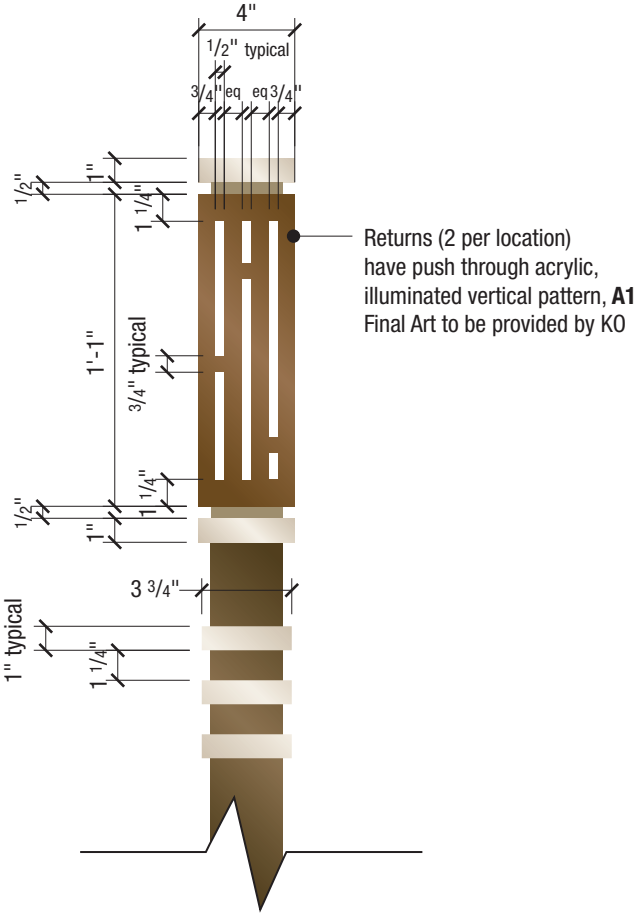
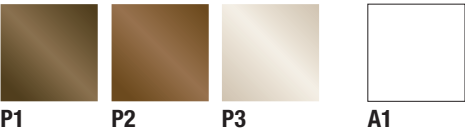
**Hard Rock Hotel & Casino
Atlantic City**
1000 Boardwalk
Atlantic City, NJ 08401

Project Number: 2017024.00

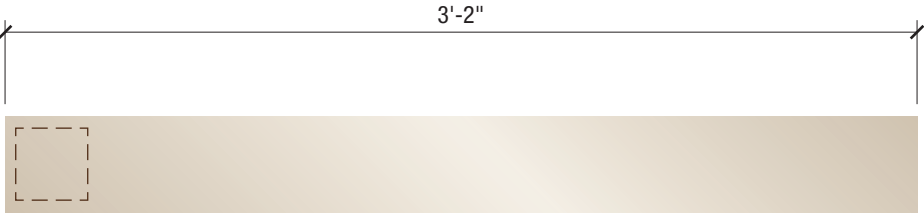
Sign Quantity: 03

**Type GG
Curbside Information**

Drawn by: JR/LM **SG-20-3-E19**
Checked by: LM/KO



1 ELEVATION
SCALE: 1 1/2"=1'-0"



top view
3 PLAN
SCALE: 1 1/2"=1'-0"



2 ELEVATION
SCALE: 1 1/2"=1'-0"

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609-345-5222

Authorized Use:
Bid Set

Issue Date: February 15, 2018

Revisions:			
No.	Date	Description	Drawn By
1	-	-	
2	-	-	
3	-	-	
4	-	-	
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6	-	-	
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8	-	-	
9	-	-	
10	-	-	

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Atlantic City, NJ 08401

Project Number: 2017024.00

Sign Quantity: **03**

**Type GG
Curbside Information**

Drawn by: JR/LM **SG-20-3-E20**
Checked by: LM/KO

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609-345-5222

Authorized Use:

Bid Set

Issue Date: February 15, 2018

Revisions:			
No.	Date	Description	Drawn By
1	-	-	
2	-	-	
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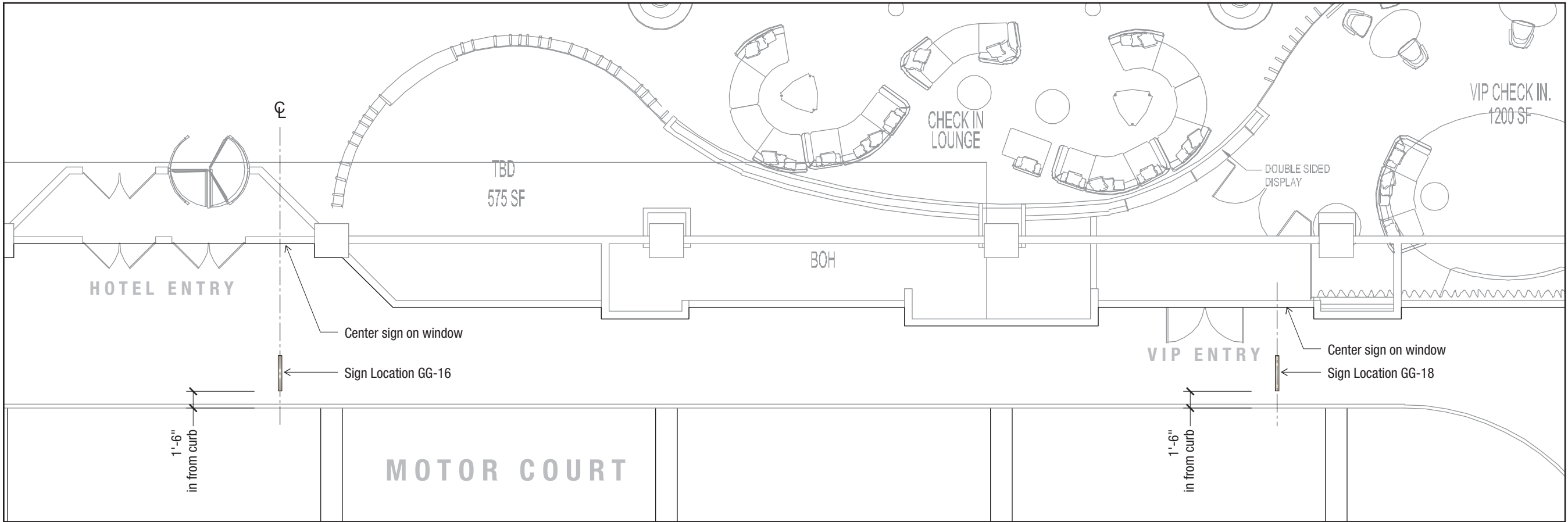
**Hard Rock Hotel & Casino
Atlantic City**
1000 Boardwalk
Atlantic City, NJ 08401

Project Number: 2017024.00

Sign Quantity: **03**

**Type GG - Curbside Information
Detailed Locations**

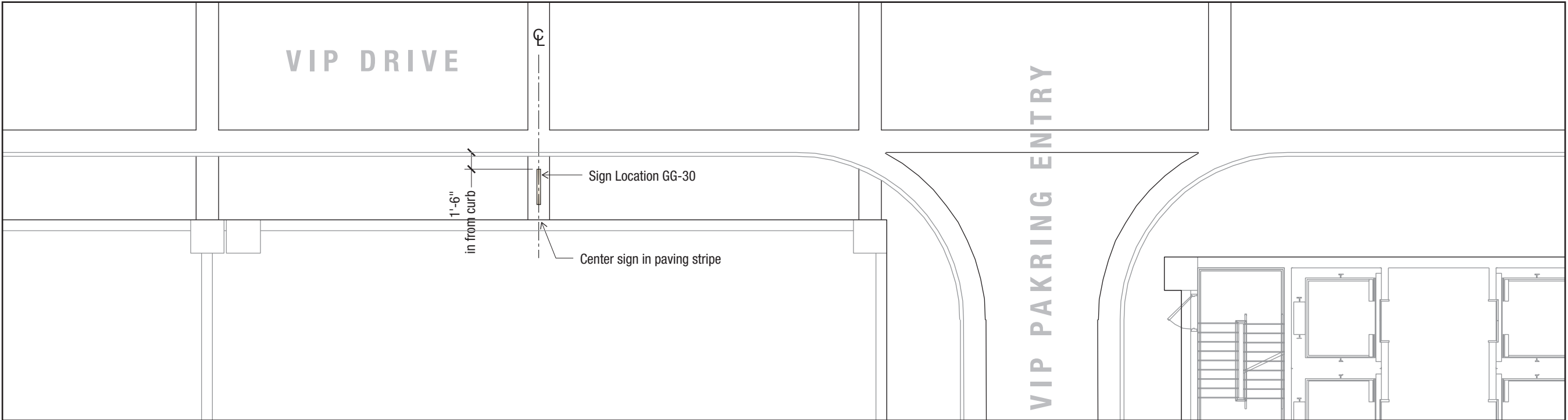
Drawn by: JR/LM **SG-20-3-E21**
Checked by: LM/KO



1

PLAN: Location Detail

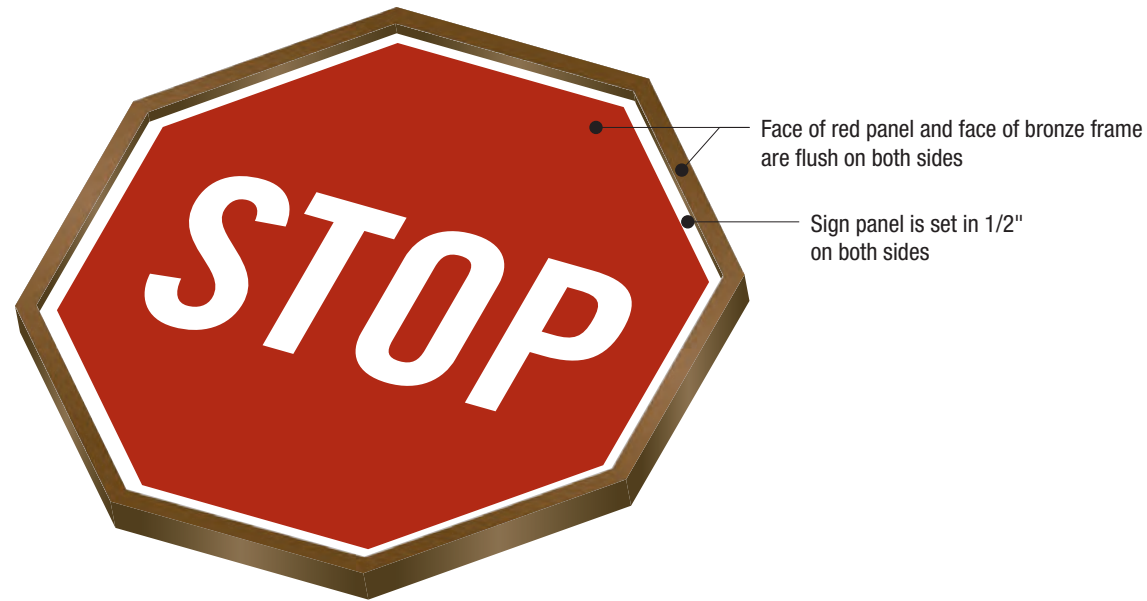
SCALE: 1"=10'-0"



2

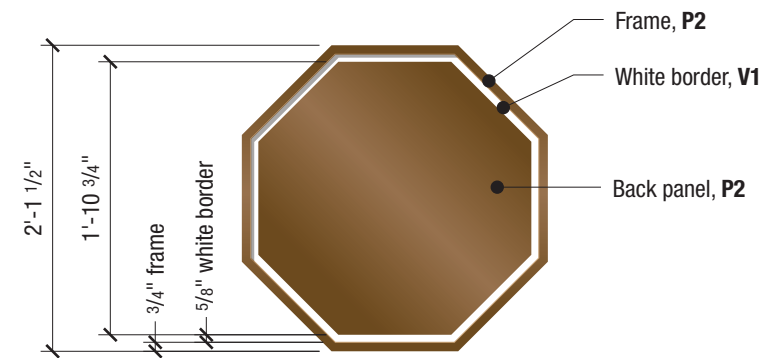
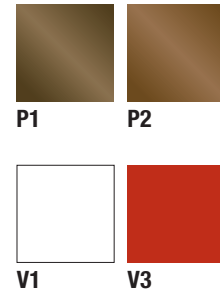
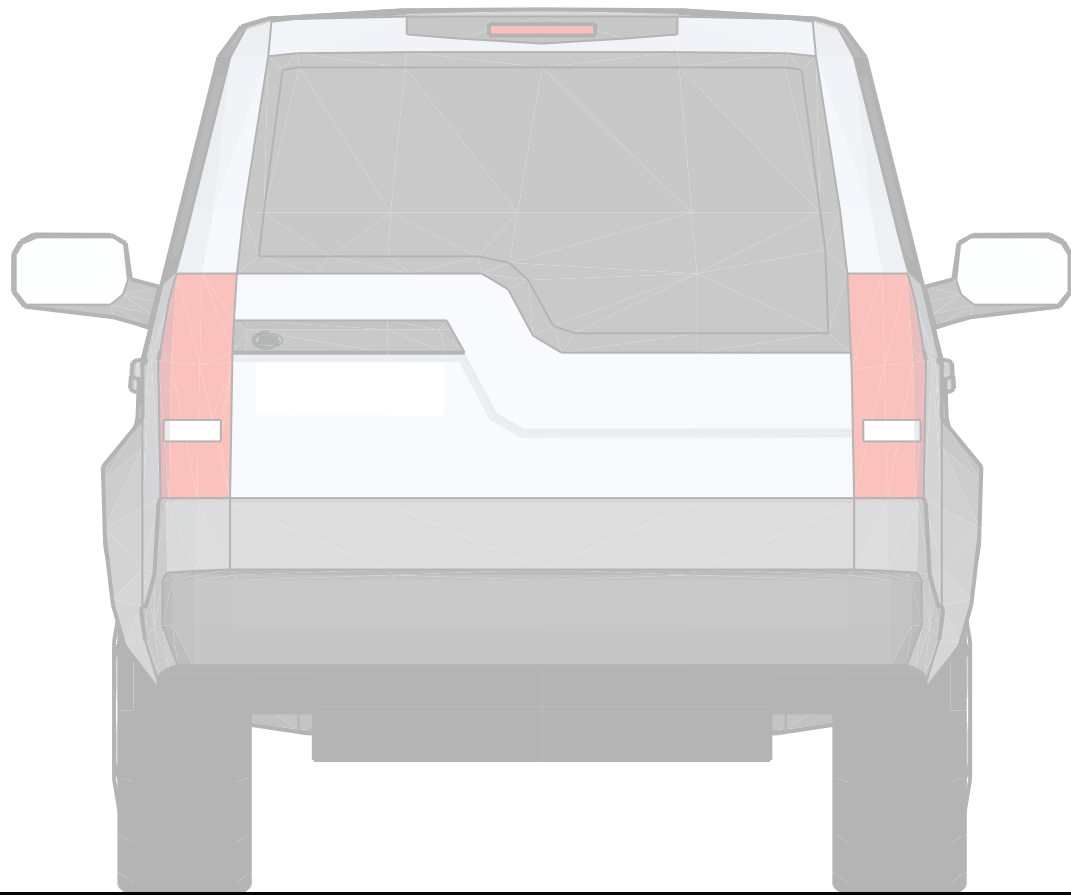
PLAN: Location Detail

SCALE: 1"=10'-0"

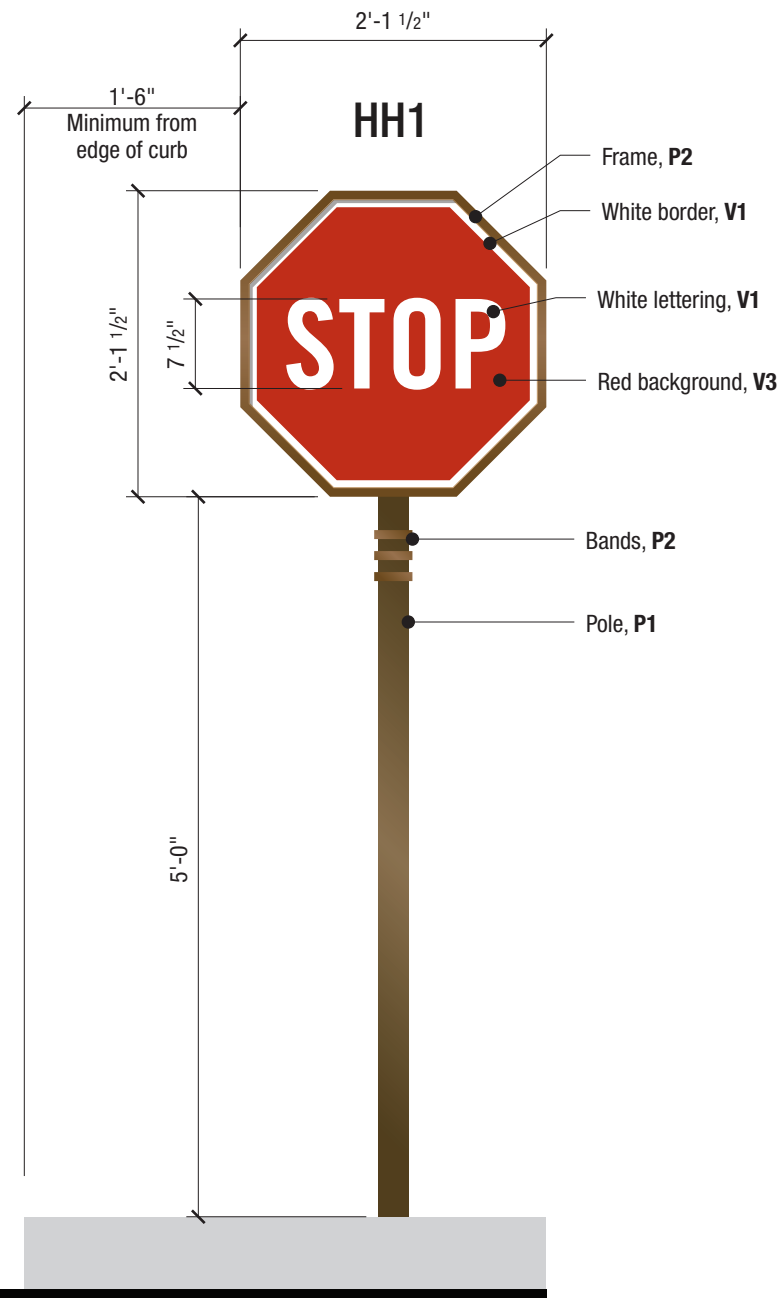


General Notes:

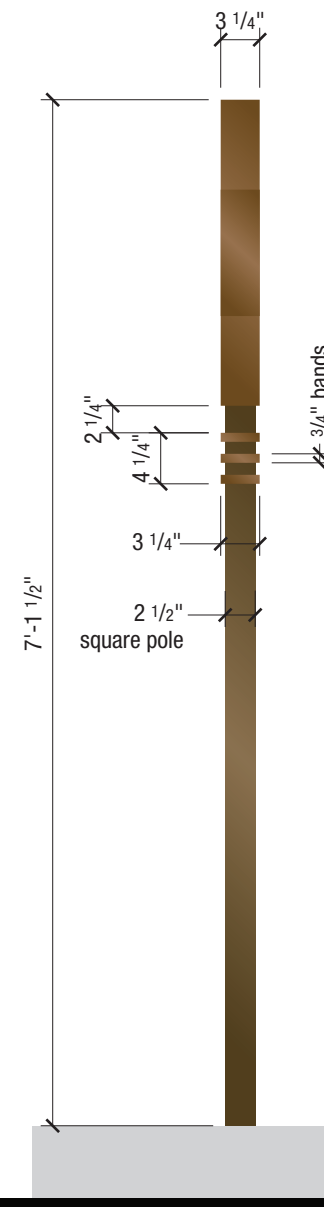
- All Type HH signs are to be located by the project Civil Engineer, Quantities TBD
- All poles, panels, frames, and decorative bands are to be constructed of aluminum.
- All fasteners to be hidden from view.
- Footings are below finished grade, concealed from view, and are to be engineered by Sign Contractor.



1 ELEVATION: Back Side
SCALE: 3/4"=1'-0"



2 ELEVATION: Sign Type HH1
SCALE: 3/4"=1'-0"



3 SIDE ELEVATION: Sign Type HH1
SCALE: 3/4"=1'-0"

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Authorized Use:
Bid Set

Issue Date: February 15, 2018

Revisions:			
No.	Date	Description	Drawn By
1	-	-	
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3	-	-	
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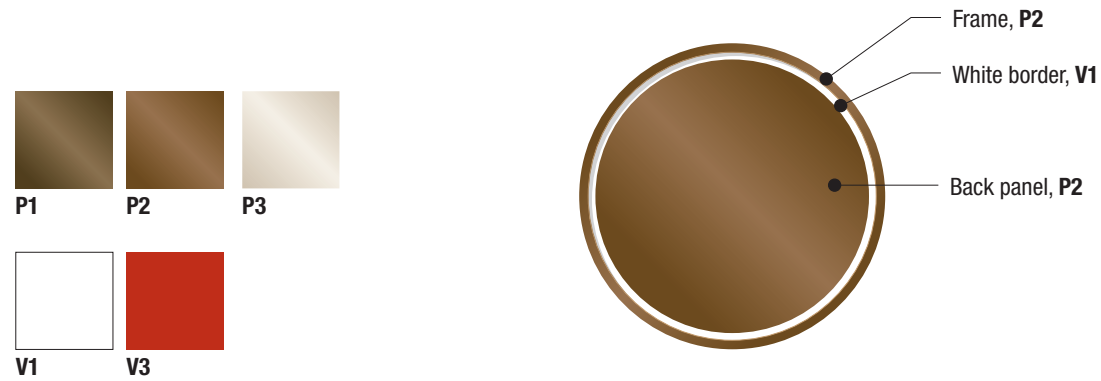
**Hard Rock Hotel & Casino
Atlantic City**
1000 Boardwalk
Atlantic City, NJ 08401

Project Number: 2017024.00

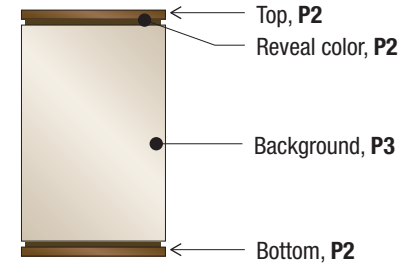
Sign Quantity: **TBD**

**Type HH
Vehicular Regulatory**

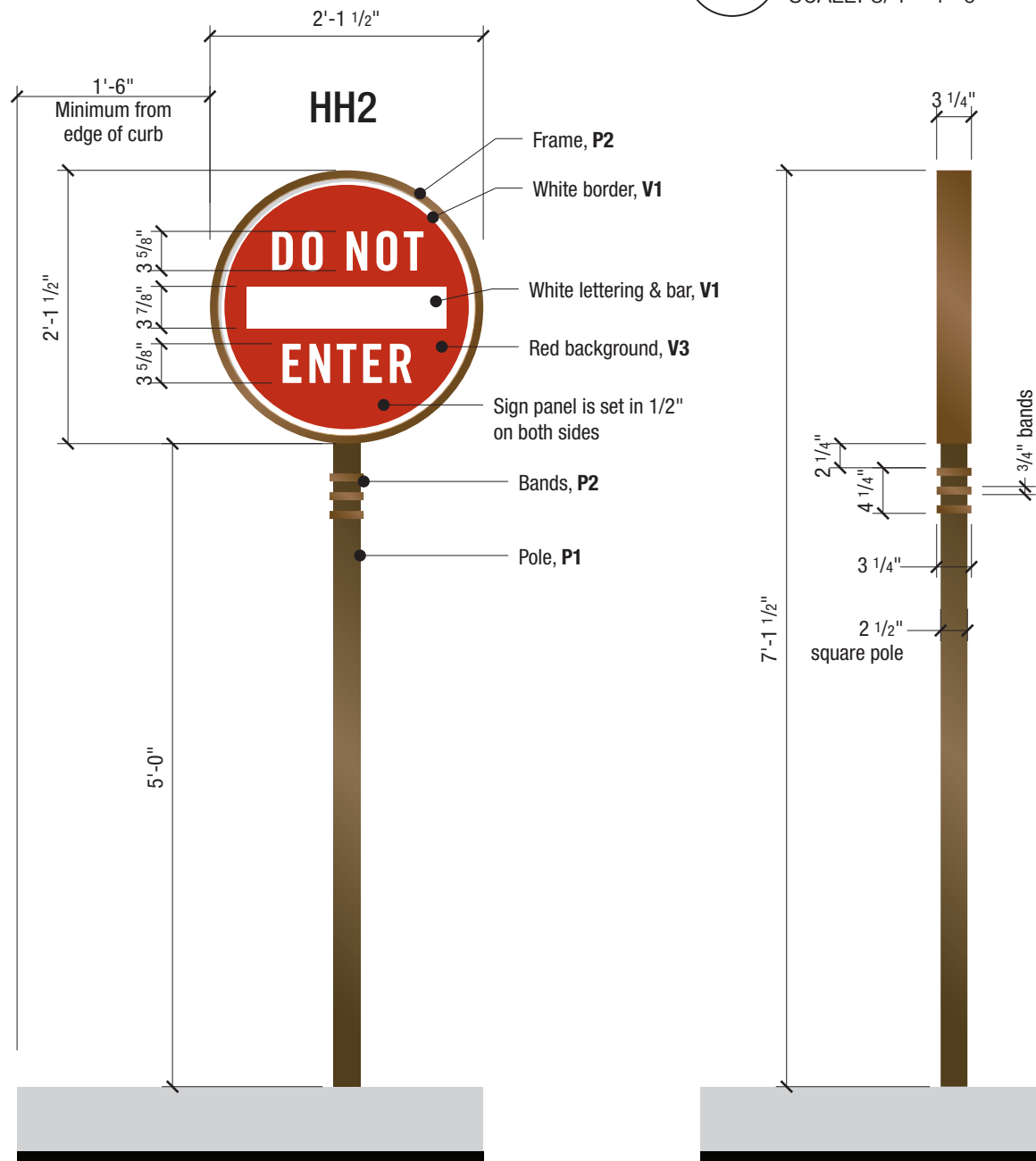
Drawn by: JR/LM **SG-20-3-E22**
Checked by: LM/KO



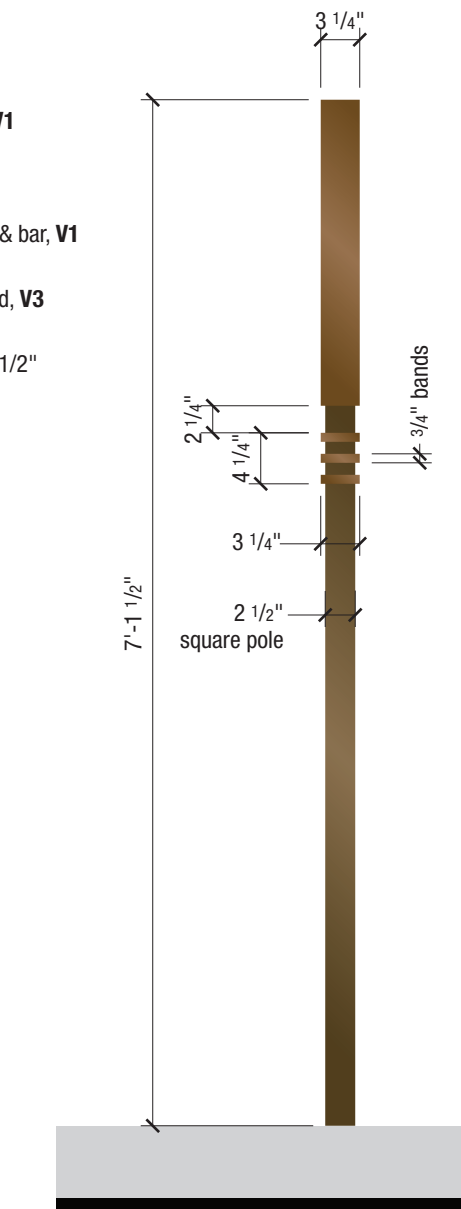
1 ELEVATION: Back Side
SCALE: 3/4"=1'-0"



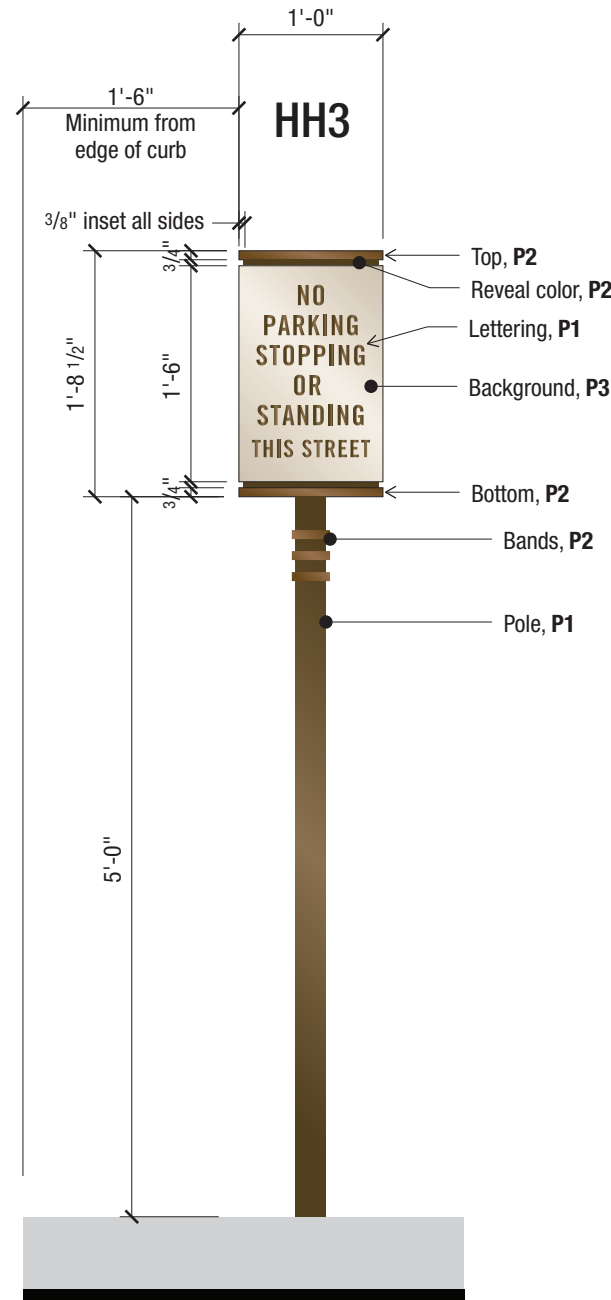
2 ELEVATION: Back Side
SCALE: 3/4"=1'-0"



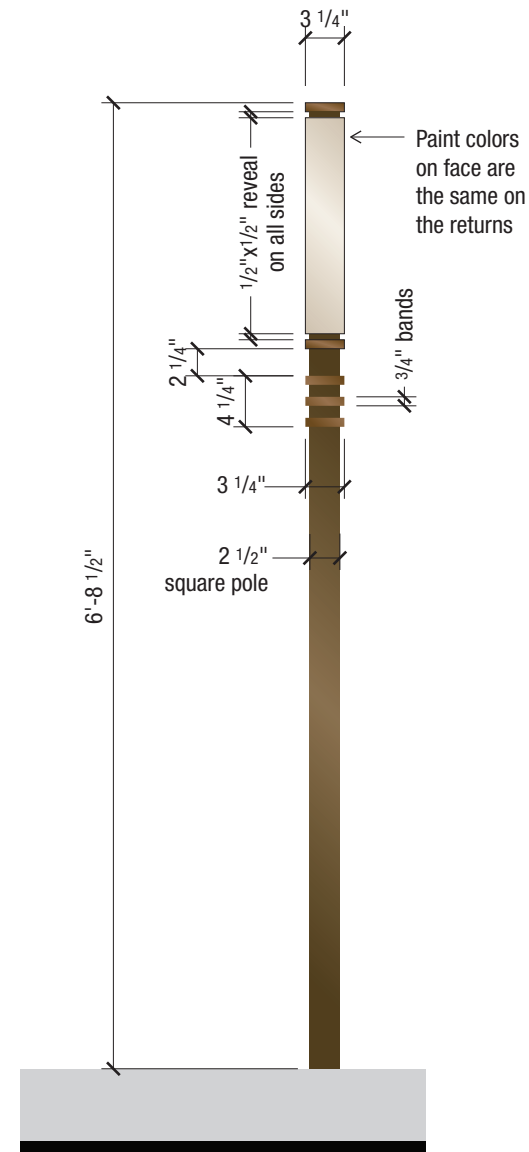
3 ELEVATION: Sign Type HH2
SCALE: 3/4"=1'-0"



4 SIDE ELEVATION: Sign Type HH2
SCALE: 3/4"=1'-0"



5 ELEVATION: Sign Type HH3
SCALE: 3/4"=1'-0"



6 SIDE ELEVATION: Sign Type HH3
SCALE: 3/4"=1'-0"

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Hard Rock International

Client:
SOSH Architects
1020 Atlantic Avenue
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609-345-5222

Authorized Use:
Bid Set

Issue Date: February 15, 2018

Revisions:			
No.	Date	Description	Drawn By
1	-	-	
2	-	-	
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4	-	-	
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8	-	-	
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10	-	-	

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1000 Boardwalk
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Project Number: 2017024.00

Sign Quantity: **TBD**

**Type HH
Vehicular Regulatory**

Drawn by: JR/LM **SG-20-3-E23**
Checked by: LM/KO

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Revisions:			
No.	Date	Description	Drawn By
1	-	-	
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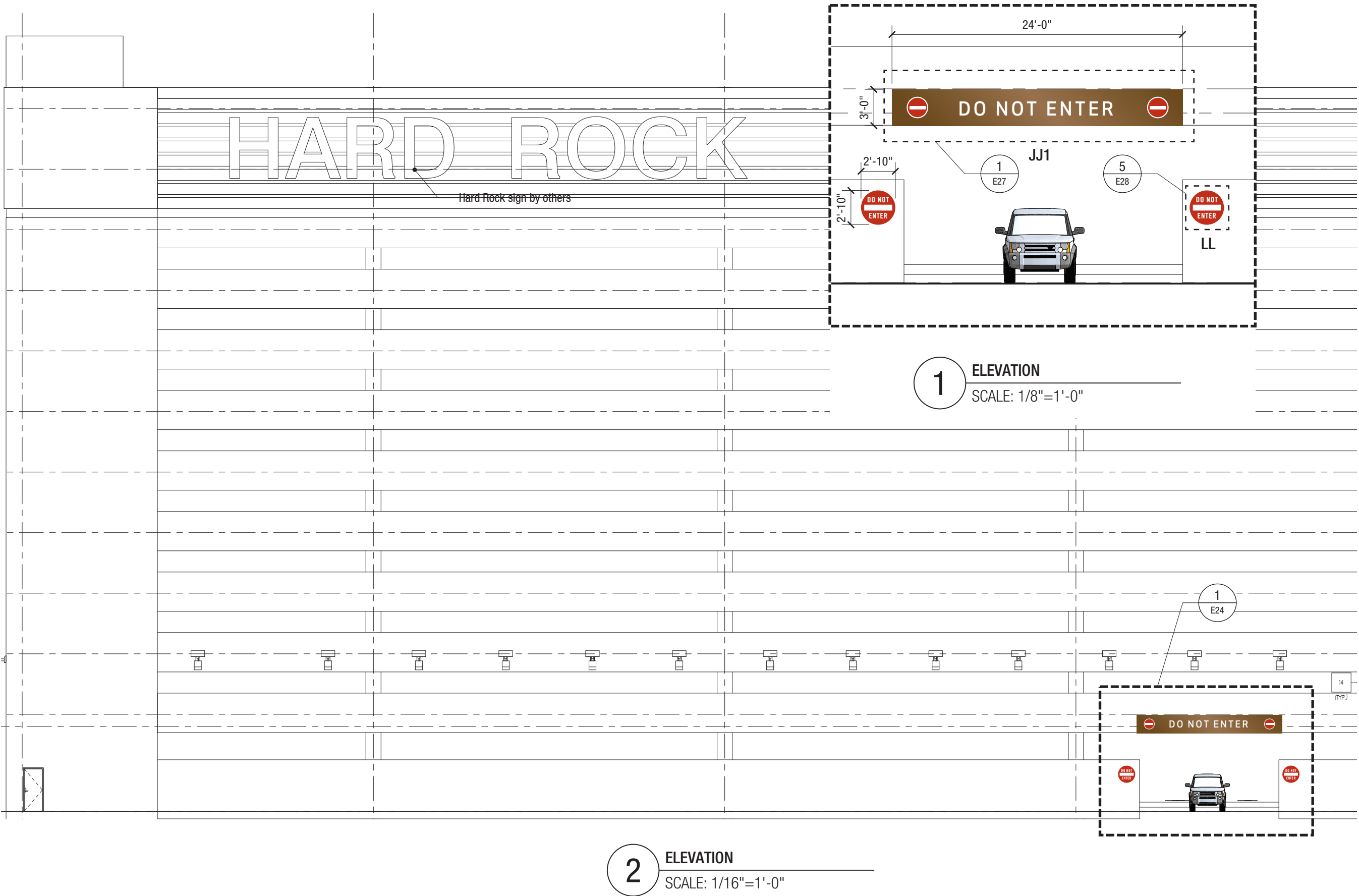
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Project Number: 2017024.00

**Type JJ1 - Penn Ave Exit
Type LL - Do Not Enter**

Drawn by: JR/LM **SG-20-3-E24**
Checked by: LM/KO



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Authorized Use:
Bid Set

Issue Date: February 15, 2018

Revisions:			
No.	Date	Description	Drawn By
1	-	-	
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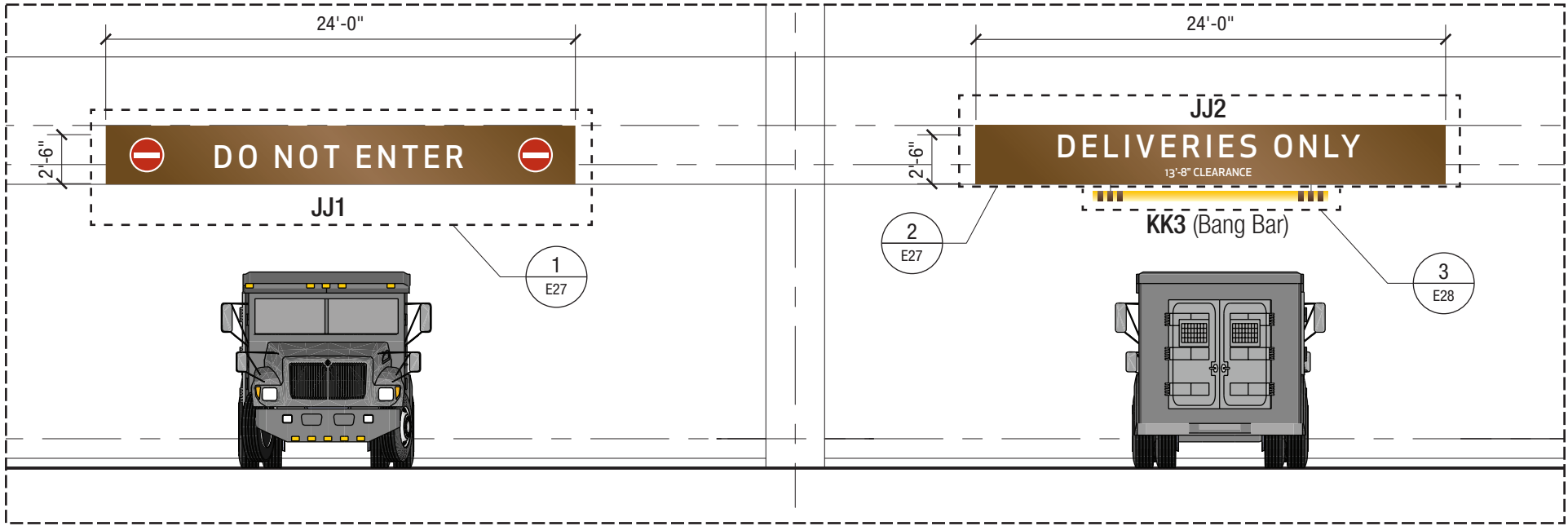
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Hard Rock Hotel & Casino
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Atlantic City, NJ 08401

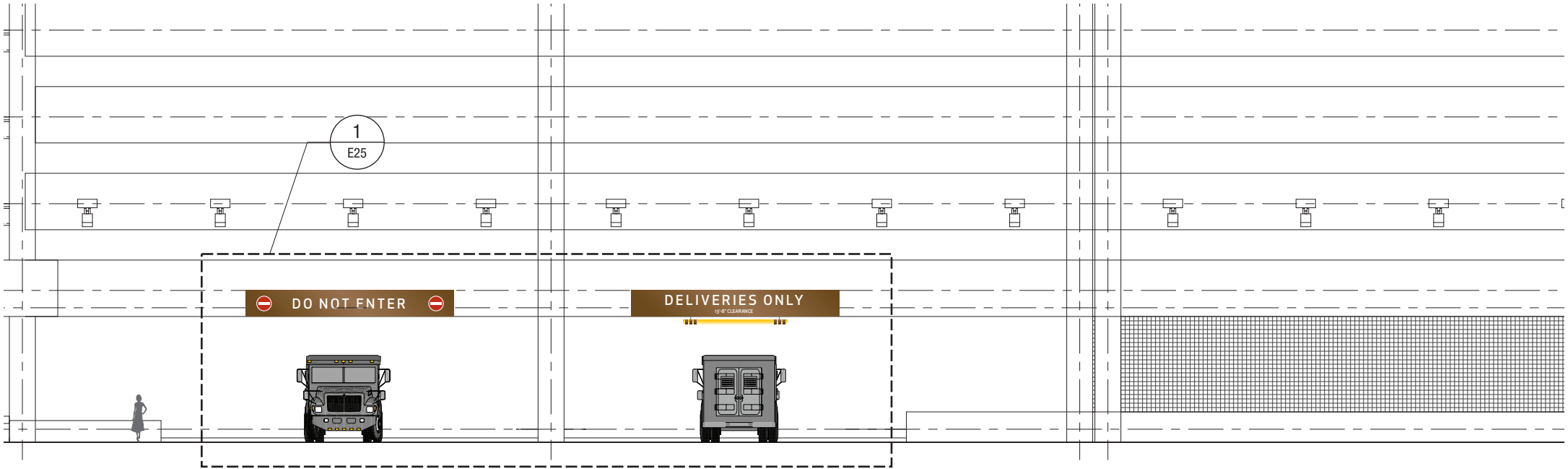
Project Number: 2017024.00

Type JJ1, JJ2, & JJ3 - Penn Ave
Type KK - Bang Bar

Drawn by: JR/LM **SG-20-3-E25**
Checked by: LM/KO



1 ELEVATION
SCALE: 1/8"=1'-0"



2 ELEVATION
SCALE: 1/16"=1'-0"

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Atlantic City, NJ 08401
609-345-5222

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Bid Set

Issue Date: February 15, 2018

Revisions:			
No.	Date	Description	Drawn By
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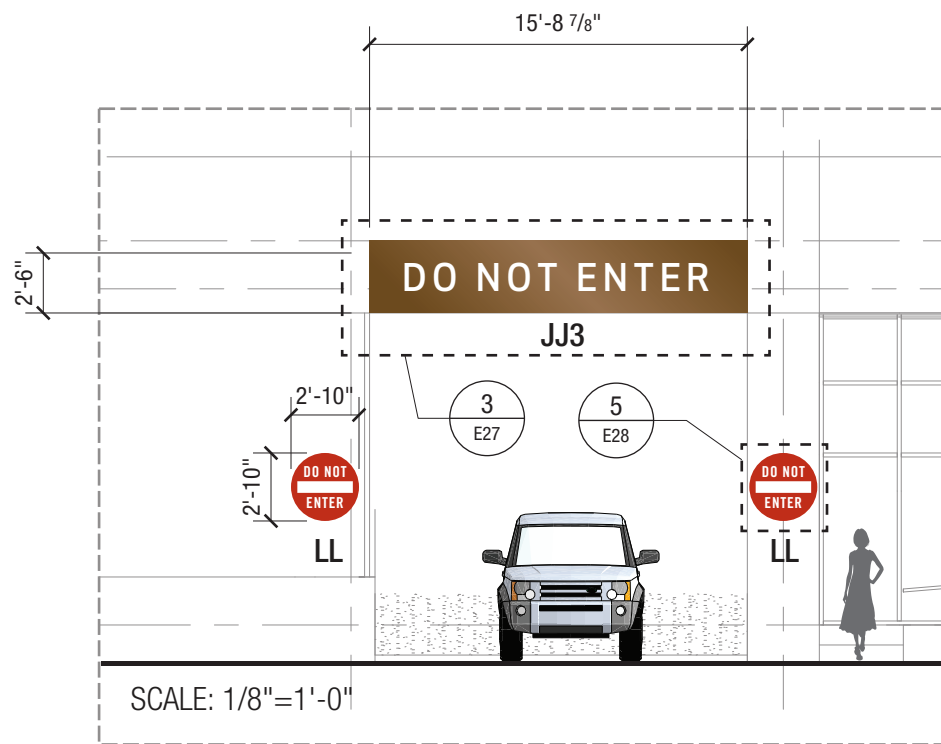
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Atlantic City, NJ 08401

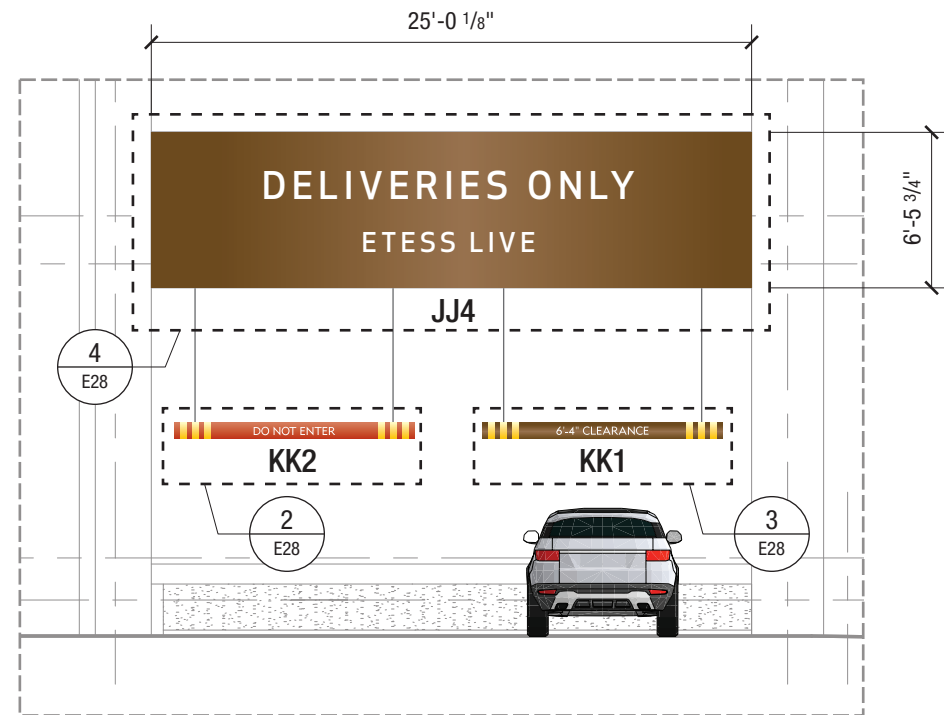
Project Number: 2017024.00

**Type JJ3 & JJ4 - Penn Ave
Type KK - Bang Bar
Type LL - Do Not Enter**

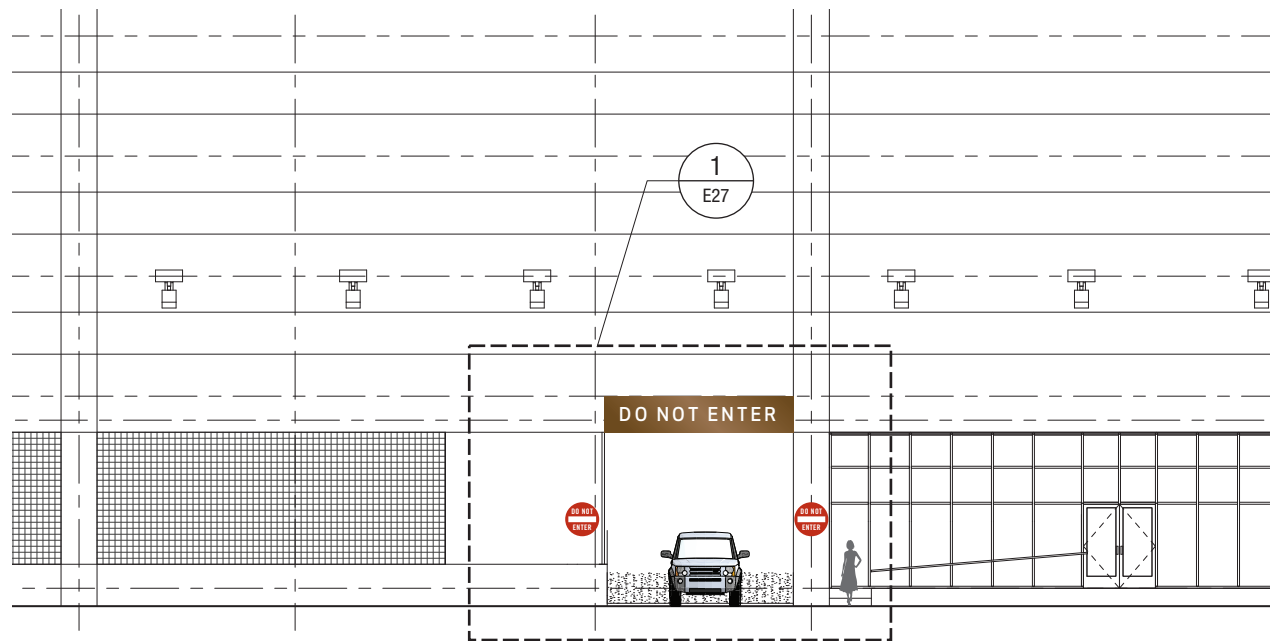
Drawn by: JR/LM **SG-20-3-E26**
Checked by: LM/KO



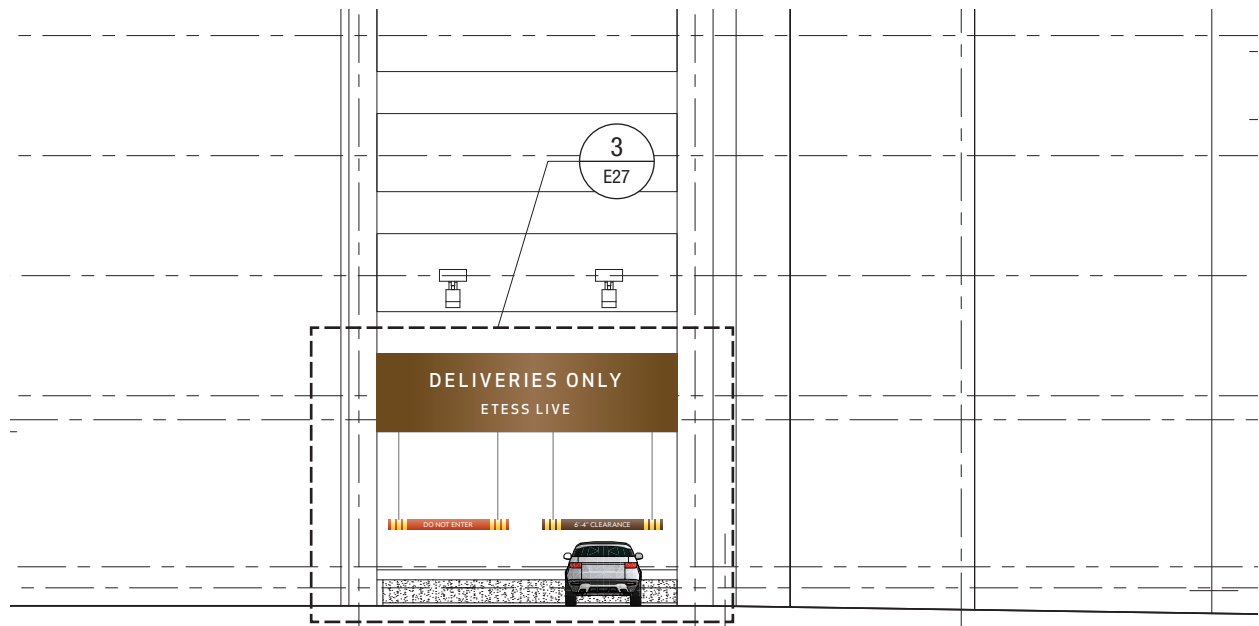
1 ELEVATION
SCALE: 1/8"=1'-0"



3 ELEVATION
SCALE: 1/8"=1'-0"



2 ELEVATION
SCALE: 1/16"=1'-0"



4 ELEVATION
SCALE: 1/16"=1'-0"



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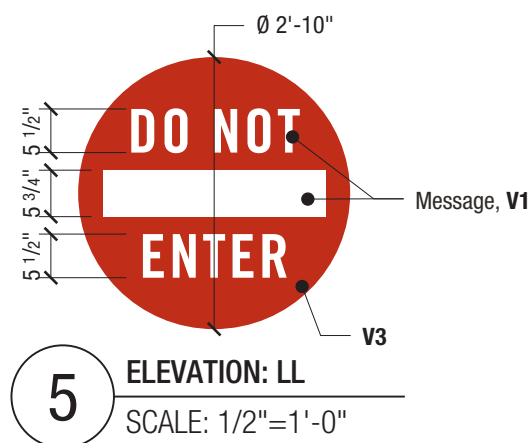
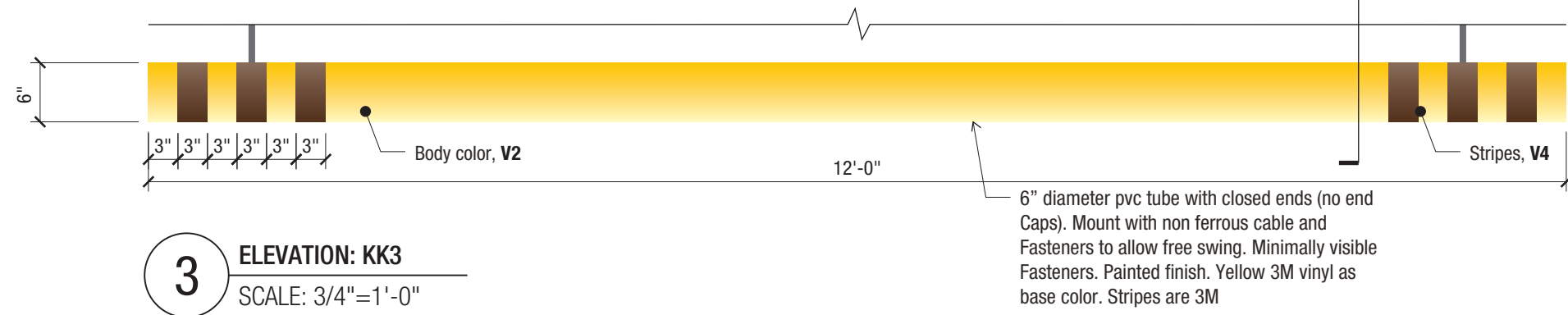
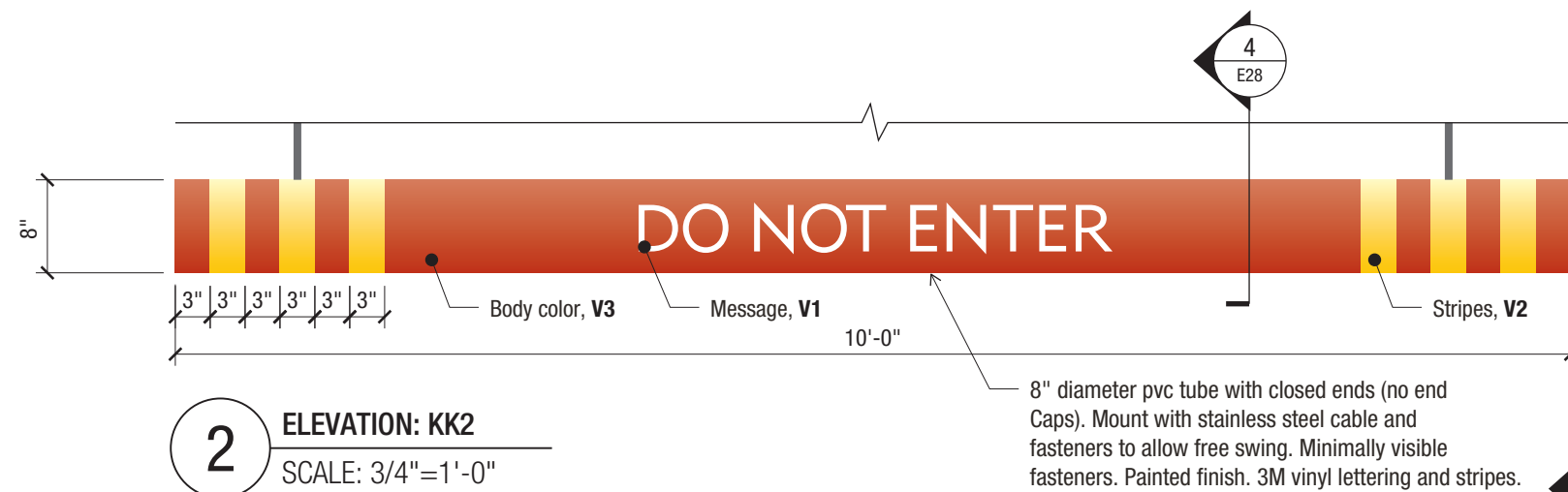
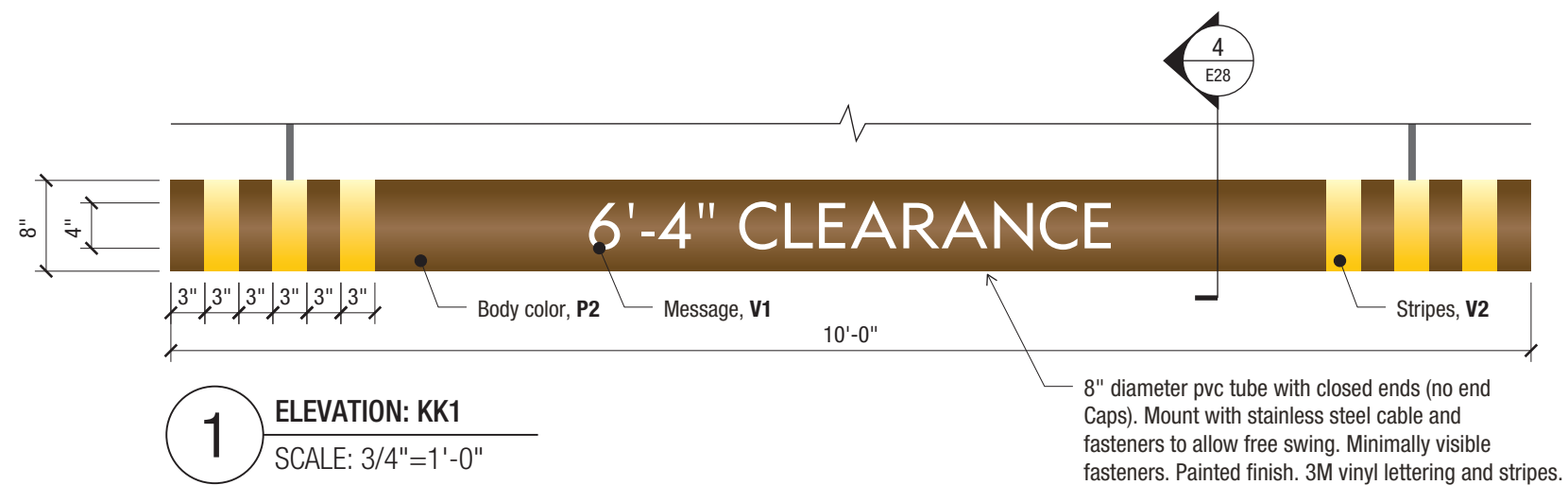
Hard Rock Hotel & Casino
Atlantic City
1000 Boardwalk
Atlantic City, NJ 08401

Project Number: 2017024.00

Sign Quantities: JJ1-02, JJ2-01
JJ3-01, JJ4-01

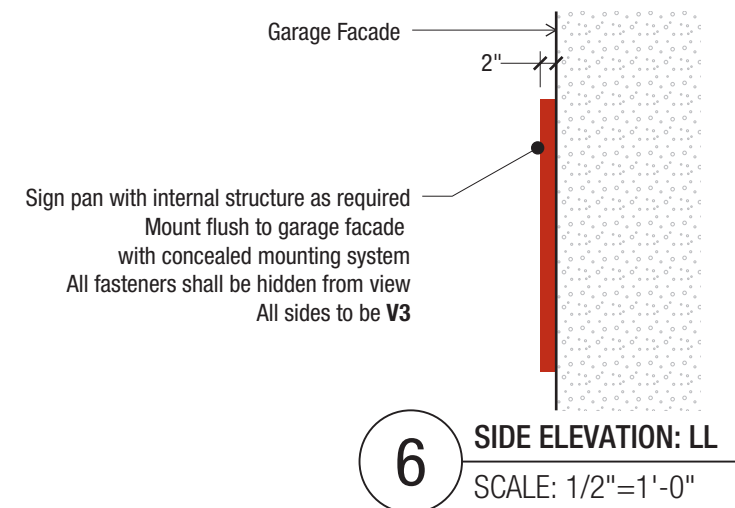
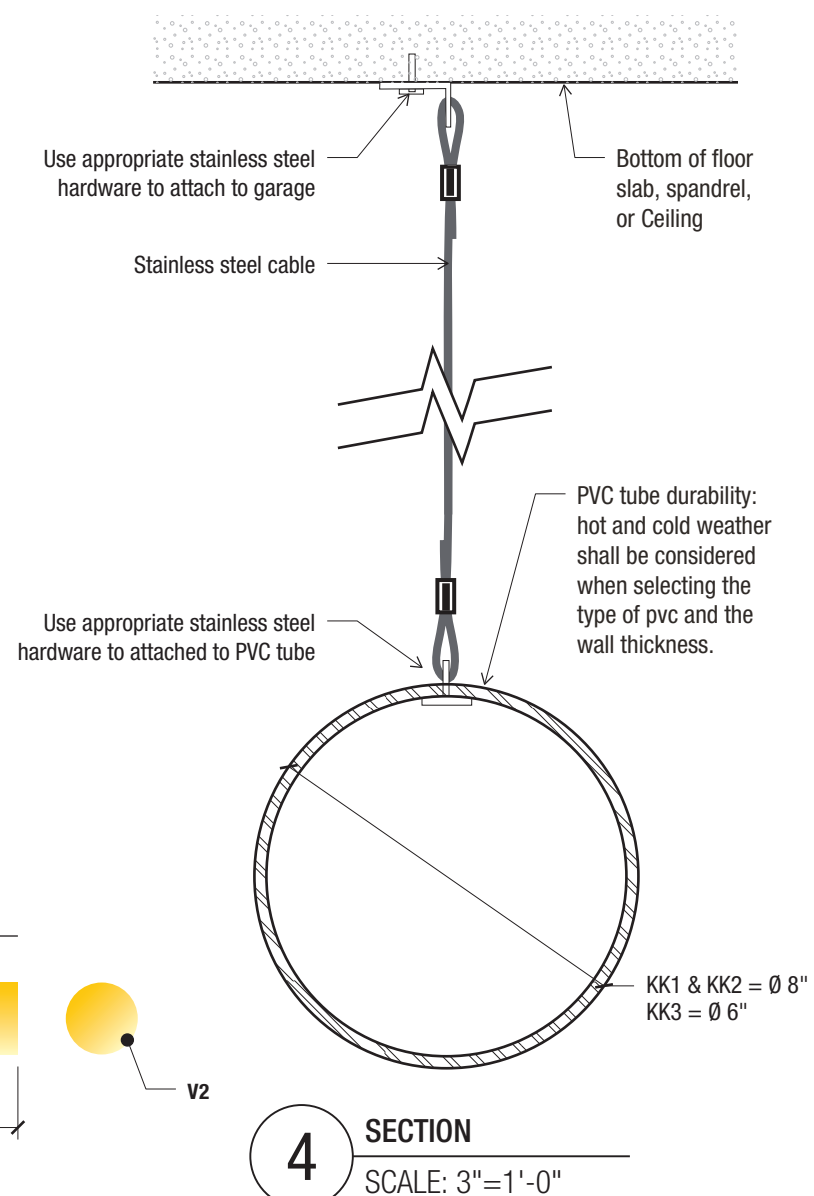
Type JJ
Details

Drawn by: JR/LM **SG-20-3-E27**
Checked by: LM/KO



General Notes:

- Confirm all conditions and mounting details with general contractor
- Clearance height at each location to be verified prior to fabrication



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Bid Set

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Revisions:			
No.	Date	Description	Drawn By
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Hard Rock Hotel & Casino
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Project Number: 2017024.00

Sign Quantities: KK1-04, KK2-01
KK3-01, LL-04

Types KK & LL
Details

Drawn by: JR/LM **SG-20-3-E28**
Checked by: LM/KO

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Authorized Use:

Bid Set

Issue Date: February 15, 2018

Revisions:			
No.	Date	Description	Drawn By
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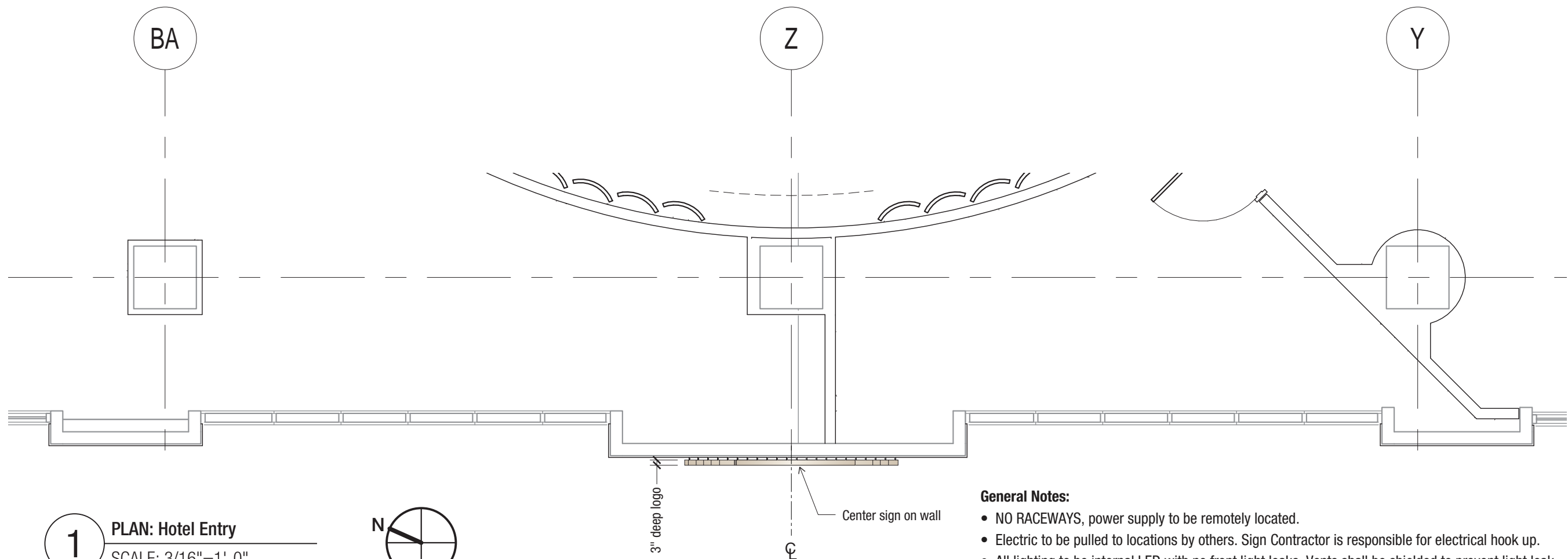
Hard Rock Hotel & Casino
Atlantic City
1000 Boardwalk
Atlantic City, NJ 08401

Project Number: 2017024.00

Sign Quantity: **01**

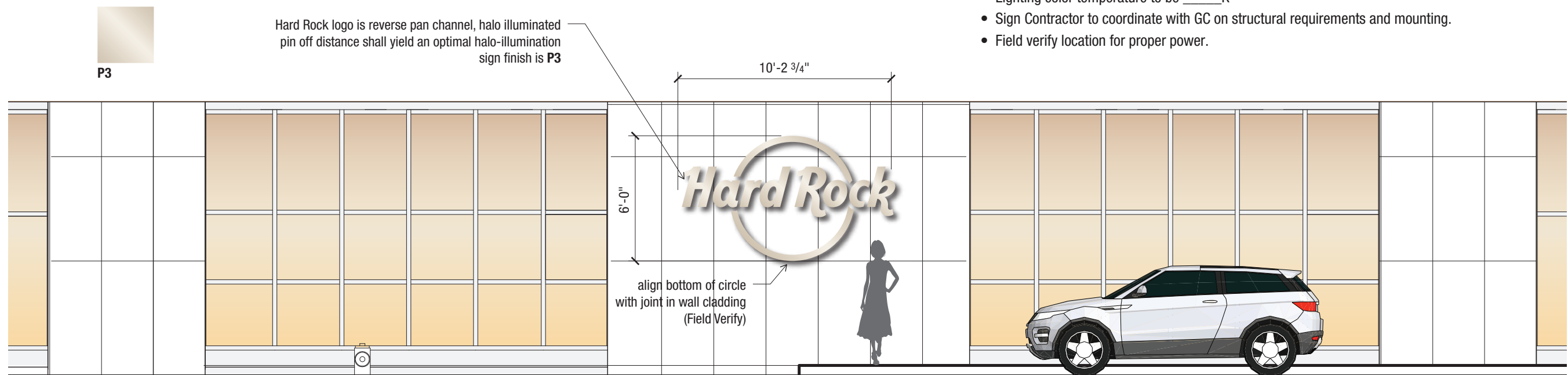
Type MM
Hard Rock Logo

Drawn by: JR/LM **SG-20-3-E29**
Checked by: LM/KO



General Notes:

- NO RACEWAYS, power supply to be remotely located.
- Electric to be pulled to locations by others. Sign Contractor is responsible for electrical hook up.
- All lighting to be internal LED with no front light leaks. Vents shall be shielded to prevent light leak.
- Lighting to be even with no hot or cool spots.
- Lighting color temperature to be ____ K
- Sign Contractor to coordinate with GC on structural requirements and mounting.
- Field verify location for proper power.



Halo-illuminated Hard Rock Hotel and Casino logo mounted to wall. Color TBD when wall material is selected.

1

PLAN: Hotel Entry

SCALE: 3/16"=1'-0"

2

ELEVATION: Hotel Entry

SCALE: 3/16"=1'-0"

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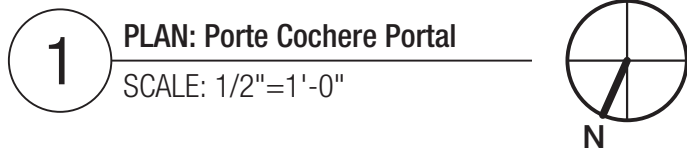
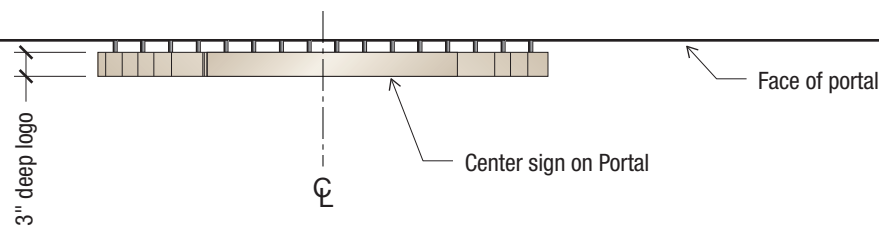
**Hard Rock Hotel & Casino
Atlantic City**
1000 Boardwalk
Atlantic City, NJ 08401

Project Number: 2017024.00

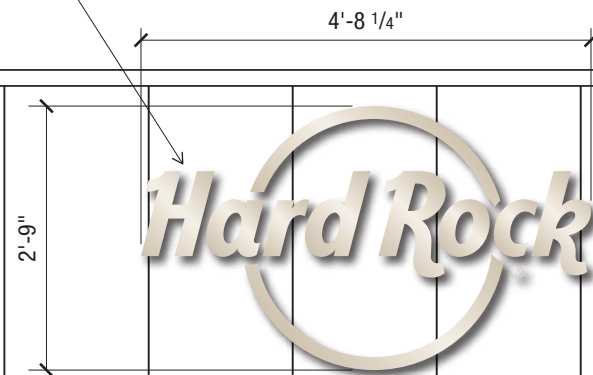
Sign Quantity: **02**

**Type NN
Hard Rock Logo**

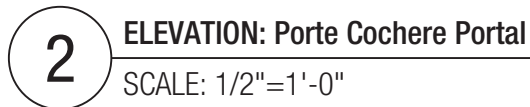
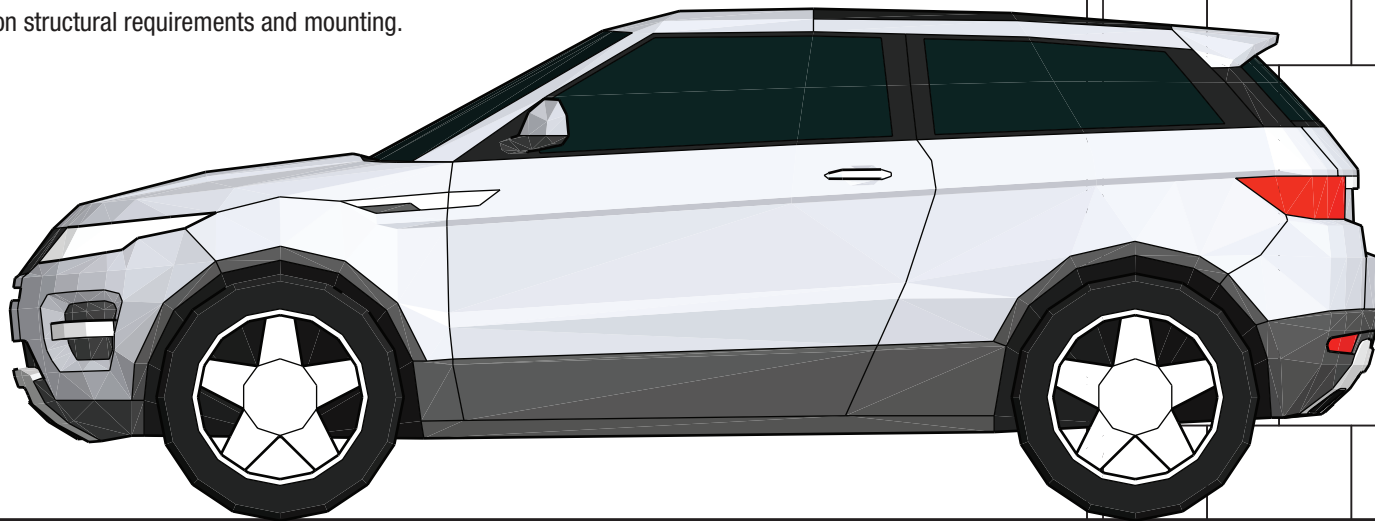
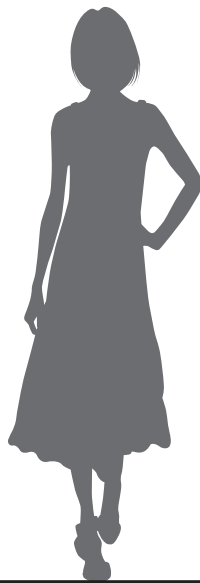
Drawn by: JR/LM **SG-20-3-E30**
Checked by: LM/KO



Hard Rock logo is reverse pan channel, halo illuminated
pin off distance shall yield an optimal halo-illumination
sign finish is **P3**



- General Notes:**
- NO RACEWAYS, power supply to be remotely located.
 - Electric to be pulled to locations by others. Sign Contractor is responsible for electrical hook up.
 - All lighting to be internal LED with no front light leaks. Vents shall be shielded to prevent light leak.
 - Lighting to be even with no hot or cool spots.
 - Lighting color temperature to be ____K
 - Sign Contractor to coordinate with GC on structural requirements and mounting.
 - Field verify location for proper power.



PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Sign Message Schedule, Sign Location Plan, Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. The work includes the manufacture and installation of interior and exterior signs.
- B. The Sign Contractor shall provide all labor, materials, equipment and services necessary for the fabrication, delivery and installation of signage as described in the drawings and specifications, including all fasteners, connectors, hardware and support structures, as needed for a complete and proper installation. The Sign Contractor is responsible for visiting the Project site prior to starting the work and field verifying all existing conditions and dimensions, and shall notify the Designer and Owner immediately of any discrepancies.
- C. Refer to the the bid drawings and/or message schedule for a complete list of sign types and quantities. Signs listed in the bid drawings and/or message schedule should match those indicated on sign location plans. The Sign Contractor shall notify the Designer and Owner immediately of any discrepancies in sign quantities or locations.

1.3 BID

- A. All questions related to any of the bid documents shall be submitted via email to Owner and the Kiku Obata & Compmany. Questions during bidding will be compiled and responses will be posted as an addendum so all bidders can respond appropriately.
- B. Sign Contractor’s bid shall be based on the Drawings and Specifications.

1.4 SCHEDULING

- A. Within (14) business days of being awarded the contract, the Sign Contractor shall prepare and present to the General Contractor, Owner and Designer a schedule for submittals, reviews, fabrication, and installation of the work. If working with a General Contractor, the Sign Contractor is responsible for coordinating the schedule of all necessary work.

1.5 SUBMITTALS

- A. The Sign Contractor shall not begin fabrication without approved Shop Drawings, Product Data, samples and mockups.
- B. Shop Drawings:

- Shop Drawings shall be submitted in electronic format (PDF).
- Sign Contractor shall provide complete fabrication and installation drawings for each type and version of signs, and each installation condition, clearly mark drawings with sign type and location, and indicate all dimensions, materials, components, parts, connections, and devices. Field-verified dimensions and conditions shall be included in shop drawings where applicable.
- Sign Contractor shall provide accurately scaled pattern layouts (in electronic format) for all signs of each type. All letter styles, fonts, and graphic elements shall be faithfully reproduced. Do not re-submit Message Schedule.
- General Contractor’s stamp, initialed or signed, certifying review of submittal, compliance with Contract Documents, and verification of field measurements, shall be affixed to each drawing.

C. Samples:

- Submit (3) samples of the following items:
 - Each type exposed metal used, with respective finish (5”x5” min. size).
 - Each type plastic used, with respective finish (5”x5” min. size).
 - Each type adhesive vinyl film, including computer-cut designs. Sample size shall be large enough to clearly depict fonts or patterns.
 - All specified paint colors and finishes, on actual materials to be provided in project. If paint or finish has an appearance range or variation, provide a range of samples.
- Samples of each piece of hardware that is visible on finished signs.

D. Mockups:

- Provide mockups as required. The list of mockups is located within Bid Form. Mockups are to be reviewed by Owner and Designer. Sign Contractor to ship mockups to (location) and be present for Owner and Designer review.

E. Typography

- Typography shown on the Contract Documents or Bid Drawings are intended as guidelines for layouts and type size only, and are based on scale calculations of the message lengths within estimated sign areas. Should conflicts arise in the final message layout, notify the Designer before proceeding. Notations contained within parenthesis () in the message schedule are instructions referencing a name to be supplied by the Owner or other instructions.
- The Sign Contractor shall be responsible for purchasing all required fonts for the project.
- All type shall be straight and accurately spaced with correct spelling and punctuation.

F. Artwork

- Artwork representing for typical sign types and representative messages shall be provided in electronic form (Adobe Illustrator, Adobe Photoshop), by the Designer. It is the responsibility of the Sign Contractor to access and translate the digital information correctly.
- Sign Contractor shall be responsible for preparation of all Final Artwork (including, but not limited to: type, arrows, imagery, drawings, patterns, photographs, symbols). Final artwork for every sign is to be reviewed and

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Owner:
Hard Rock International

Client:
SOSH Architects
1020 Atlantic Avenue
Atlantic City, NJ 08401
609-345-5222

Authorized Use:
Bid Set

Issue Date: February 15, 2018

Revisions:			
No.	Date	Description	Drawn By
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Atlantic City
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Project Number: 2017024.00

Sign Quantity: 00

Sheet Name
Sheet Name

Drawn by: JR/LM SG-20-10-E01
Checked by: LM/KO

- approved by Owner and Designer.

3.

Quality of artwork for finished signage shall be the responsibility of the Sign Contractor. Owner and Designer reserve the right to reject artwork if it deviates from artwork and/or guidelines provided by the Designer.

4.

Do not, under any circumstances, use Contract Documents or Bid Drawings as final art.
- G.

Submittal Review:

1.

Owner & Designer shall review submittals and return approval or comments to Sign Contractor for revisions or re-submittals as indicated, within (7) business days of receipt.

2.

Designer's review of submittals does not relieve the Sign Contractor of the responsibility to complete all work in accordance with the Contract Documents or Bid Drawings.
- H.

Product or Catalog Data:

1.

Product or Catalog Data shall be submitted in electronic format (PDF).

2.

Submit only pages which are pertinent, or manufacturer's standard drawings modified to delete non-applicable data:

a.

Clearly mark the product information or catalog to identify sign type, pertinent materials, products, or models.

1.6

SUBSTITUTIONS

- A.

Limitations on Substitutions:

1.

Sign Contractor-requested Substitutions for any materials, products, colors, and components will only be considered for acceptance if the following conditions are met:

a.

Documented Delivery Problem: The Sign Contractor must provide substantial written documentation to support a claim of a delivery problem which is in conflict with the fabrication/installation schedule, including but not limited to copies of correspondence to and from the product manufacturer which demonstrates that a delivery problem exists relative to the timely completion of the work. Delivery problems caused by the Sign Contractor or any subcontractor failure to place orders for materials or items in a timely manner shall not be considered.

b.

Sign Contractor-requested product substitution will NOT be considered if the Sign Contractor or any subcontractor has delayed executing subcontract labor agreements or scheduling subcontract work from the time of contract award.

B.

Substitutions will NOT be considered when indicated on shop drawings or product data submittals without prior approval by Designer.

C.

Substitutions will NOT be considered when requested directly by subcontractor or supplier.

D.

Additional studies, investigations, submittals, redesign and/or analysis by the Architect/Engineer or Designer caused by the requested substitutions shall be paid by the Sign Contractor at no expense to Owner.

- E.

Substitute products shall NOT be ordered or installed without written acceptance by Designer or Owner.
- F.

Requests For Substitution:

1.

All Requests For Substitution submitted by the Sign Contractor shall include, for all products, finishes, or materials proposed to be substituted: Complete manufacturer's product specification information; MSDS; catalog information; full range of colors and options available as applicable; and documentation demonstrating that the substitute product is equal to the specified product.

2.

Request For Substitution constitutes a representation that the Sign Contractor has investigated the proposed product and has determined that it is equal to or superior in all respects to the specified product.

3.

Request For Substitution constitutes a representation that the Sign Contractor will provide the same type of warranty for substitution as for the specified product.

a.

Sign Contractor's warranty shall be in writing guaranteeing all substituted products have same or superior performance as the product specified.

4.

Request For Substitution constitutes a representation that the Sign Contractor will coordinate the installation of the accepted substitute, making such changes as may be required for the Work to be complete in all respects.

5.

The Sign Contractor shall state in writing the reason for the Request For Substitution; e.g., time, price, better quality, etc.

1.7

ENGINEERING AND FABRICATION METHODS

- A.

The Sign Contractor is responsible for structural and electrical engineering; structural integrity of signage, sign mountings, and attachments; and fabrication means and methods. Any significant structural or engineering changes in design, materials, fabrication techniques, or details that the Sign Contractor deems necessary to the successful completion of the Project shall be communicated in a timely manner to the Designer and Owner, and shall be subject to the following conditions:

1.

Proposed changes solely related to cost issues shall not be considered. The Sign Contractor's bid shall be based on the Drawings and Specifications.
- B.

Further development and engineering of Designer's details for fabrication and installation is required and shall be shown in the Sign Contractor's shop drawings.
- C.

Structural Design and Calculations:

1.

It shall be the responsibility of the Sign Contractor to provide complete structural design for signs and signage supports, foundations and attachments as required, and to coordinate with all other work. Design must meet all applicable local, state, and national codes, as well as testing laboratory listings where required. Sign Contractor drawings and calculations shall be prepared, stamped, and signed by a licensed structural engineer in the State of New Jersey.
- D.

Sign Contractor shall provide a copy of their stamped and signed Structural Design Drawings and Calculations, for record purposes only.

1.8

GENERAL REQUIREMENTS

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**Hard Rock Hotel & Casino
Atlantic City**
1000 Boardwalk
Atlantic City, NJ 08401

Project Number: 2017024.00

Sign Quantity: **00**

Sheet Name
Sheet Name

Drawn by: JR/LM **SG-20-10-E02**
Checked by: LM/KO

- A.

The work shall comply with all applicable codes and regulations as enforced by the governing jurisdiction.
- B.

All signs shall comply with applicable provisions of the Americans with Disabilities Act, ADA Standards for Accessible Design, as revised 2010 (ADA).

1.

Where braille copy is required, the Sign Contractor is responsible for the coordination and translation of sign messages to braille messages. Braille copy shown on Contract Documents or Bid Drawings and shown in any provided Artwork is for general size and position only and should not be used for final braille layouts.

2.

All braille is to be Grade 2 and shall have a domed or rounded shape as outlined in section 703.3 by the 2010 ADA.
- C.

The Owner and/or Designer shall reserve the right to reject any shop drawings, samples or other submittals, as well as any finished product or installation that does not conform to product and performance specifications.

1.9

WORKMANSHIP

- A.

Tradeswork: It is intended that the workmanship be of the highest quality obtainable by the respective trades and crafts experienced in the fabrication of signs, and that all work be done by journeymen, or by tradesmen under the direct supervision of journeymen.

1.

“Journeymen” shall be interpreted to mean those craftsmen who have the qualifications and experience to meet the requirements described in the Job Classification and Descriptions for the Electric Sign Industry, as developed by the NESA/TRI-TRADES COMMITTEE.
- B.

Artisans: It is intended that work of an artistic or specialized nature such as gilding, artistic carving and engraving, artistic painting, when included as part of Contract, be executed by artisans with experience, credentials, and reputation to satisfy the demands of the Designer.

1.10

GENERAL SIGN CONSTRUCTION

- A.

Unless otherwise specified, materials and equipment shall be new.
- B.

Use only personnel skilled and experienced with the products and method for fabrication and installation of signage specified.
- C.

Materials and hardware not specified, but necessary to the complete functioning of the sign, shall conform to the product manufacturer's specifications.
- D.

The work shall comply with the highest relevant industry and trade standards, and standards as indicated in PRODUCTS section of this specification. It is intended that all finished work pass eye-level examination and scrutiny by the Designer and Owner.

1.

Construct all work to eliminate burrs, dents, cutting edges, and sharp corners.

2.

Finish welds on exposed surfaces shall be of the correct type to eliminate distortions of flat surfaces, and to be imperceptible in the finished work. At exposed connections, all flux, oxides, slag, and discolorations shall be
- removed so that these areas match the finish of adjacent areas. Any damage by welding must be repaired by grinding, polishing or buffing.

3.

Except as indicated or directed otherwise, finish all surfaces smooth.

4.

Surfaces which are intended to be flat shall be without dents bulges, oil canning, gaps, or other physical deformities.

5.

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

6.

Except where approved otherwise by Designer, conceal all fasteners.

7.

Make access panels tight-fitting, lightproof, and flush with adjacent surfaces.

8.

Place all identification labels and U.L. labels to conform to U.L. Codes in a discreet location.

9.

Carefully follow manufacturer’s recommended fabricating procedures regarding expansion/contraction, fastening, and restraining of acrylic plastic.

10.

Exercise care to assure that polished, plated, or finished surfaces are unblemished in the finished work.

11.

Isolate dissimilar materials. Exercise particular care to isolate nonferrous metals from ferrous metals.

12.

Sign Contractor responsible for coordination of work with other trades.
- 1.11

CHANNEL LETTER CONSTRUCTION
- A.

Material: As indicated on drawings.

B.

Fabrication: Letters shall be channel construction with backs. Letter returns shall have a minimal number of overlapped seams placed so that visibility is minimized. Returns shall be spot-welded or riveted to letter back with no exposed welds or rivets return of letter. All returns shall be straight and perpendicular and follow exact edge of letter back. Letter returns shall be free from oil canning, buckling, dents or other defects.

C.

Letter Faces shall be constructed of acrylic not less than .125” in thickness. Acrylic letter shall be accurately cut to eliminate gaps and light-leaks between the edge trim and the letter return. Gaps greater than .080” will not be acceptable. All corners shall be mitered to its proper angle before cementing. “Folded” or wrapped corners will not be acceptable.
- 1.12

CUTTING AND ENGRAVING
- A.

Engraving: Machine-engrave letters and shapes into sign material to a uniform depth without variation.

B.

Push-Through Letters: All “push-thru” or “punch-through” letters are to be through-cut with clean edges. Remove all saw marks and irregularities, chips, etc. provide uniform minimum required space between acrylic infill and sign face material for temperature expansion and contraction. All acrylic infill to be mechanically attached to sign face with blind (no exposed fasteners on sign face) mechanical fasteners designed to allow required movement for expansion and contraction.
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- | Revisions: | | | |
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| No. | Date | Description | Drawn By |
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- Project Number: 2017024.00
- Sign Quantity: 00
- Sheet Name
Sheet Name
- Drawn by: JR/LM SG-20-10-E03
Checked by: LM/KO

PART 2 - PRODUCTS

2.1 PAINTING AND FINISHING

- A. Products:

1. Matthews Paint Co or approved equal.
760 Pittsburgh Drive
Delaware OH 43015
1.800.323.6593
matthewspaint.com

a. Top Coat: Satin Low VOC (SVOC)

b. Clear topcoat over all painted surfaces: Matthews Super Satin Clear Ultra Low VOC fluoropolymer clear topcoat

c. Gloss level of finish shall be Satin unless otherwise indicated on drawings.
- B. Application and Finish: Coatings shall be applied by an applicator having facilities, equipment and experience required to apply the finish to manufacturer specifications. All substrates shall be cleaned of any foreign substance such as oil, grease, dirt, etc.

1. Provide manufacturer’s Recommended System as appropriate for specific substrates and applications.

2. Properly prepare and prime all substratesl per manufacturer's specifications.

3. Top coating shall be applied per manufacturer’s recommendations.

4. All painting shall be free of oxidation, cracking, chipping, or any defect. Sign Contractor shall be required to touch-up or otherwise repair any damage to painted surfaces to the satisfaction of the Designer or Owner.

5. Sign panels shall be predrilled in proper locations before any priming, painting or coating processes.
- C. Pigmented (Opaque) finishes: Completely cover to provide an opaque, smooth surface of uniform color, appearance, and cover. Cloudiness, spotting, holidays, laps, brush marks, orange peel, runs sags, or other surface imperfections will not be acceptable.

2.2 SILKSCREENING

- A. Products:

1. Nazdar Inks or approved equal.
8501 Hedge Lane Terrace
Shawnee, KS 66227-3290 USA
(913) 422-1888
custserv@nazdar.com
nazdar.com
- B. All silkscreening ink to be totally opaque, with gloss level as indicated on drawings. Formulate epoxy silkscreen inks specifically for surfaces on which they will be used. Add catalytic or bonding agents as necessary to maximize adherence and vandal resistance.
- C. Screen mesh to be 309 or finer.

- D. All silkscreening shall be executed from photoscreens or negatives. Negatives used in exposing shall be clean and accurately exposed, free of imperfections, dust particles and fully retouched. Pattern-cut screens may be used where non-repeat copy is required, however, copy mask shall be equivalent to photoscreen quality. Sign Contractor shall not use any images shown in this manual or Contract Documents as camera-ready art. Camera-ready artwork will be provided by the Designer.
- E. All silkscreening shall be free of oxidation, cracking, chipping, or any defect. Sign Contractor shall be required to touch-up or otherwise repair any damage to painted surfaces to the satisfaction of the Designer or Owner.

2.3 METAL MATERIALS

- A. Aluminum Extrusions:

1. Conform to ASTM B- 221, Alloy 6063-T6. Shapes, sizes and weights of members shall be as required for structural stability. All connections of aluminum members shall be heli-arc welded, continuous fillets, ground smooth on all exposed faces, unless specifically detailed otherwise.

2. Aluminum sign extrusions such as SignComp™ or similar are unacceptable if they alter the design, dimensions, functionality, or add additional joints/ reveals. Prior to incorporating SignComp™ or similar extrusions into the shop drawings, the Sign Contractor shall provide cut sheets showing the extrusion dimensions, note where the extrusion would be used, and provide product data to the Owner and Designer. The Owner and Designer shall reserve the right to reject SignComp™ or similar extrusions that do not conform to the design intent and performance specifications.

3. Finishes as shown on drawings.
- B. Aluminum Finishes:

1. Finishes shall be consistent in color and surface appearance throughout the project.

2. Matte finish - clear anodized: AA M12 C22 A41. Except as otherwise indicated or directed by Designer, use this type finish for all exposed aluminum.

3. Matte finish - color anodized: AA M12 C22 A42.

4. Bright finish - clear anodized: AA M21 C31 A41.
- C. Aluminum sheet and plate:

1. Type 5052-H-32 alloy aluminum, thickness as indicated on drawings.
- D. Stainless steel

1. Type 302 or 304, to meet ASTM A167.

2. Exposed surfaces shall be No. 4 finish, unless otherwise indicated.

3. Unexposed surfaces shall be mill finish.
- E. Stainless steel tubing

1. Type 300 Series, to meet ASTM A269 or ASTM A312.

2. Exposed surfaces shall be No. 4 finish unless otherwise indicated.

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**Hard Rock Hotel & Casino
Atlantic City**
1000 Boardwalk
Atlantic City, NJ 08401

Project Number: 2017024.00

Sign Quantity: **00**

Sheet Name
Sheet Name

Drawn by: JR/LM **SG-20-10-E04**
Checked by: LM/KO

3. Unexposed surfaces shall be mill finish.
- F. Metal thickness: Provide metal thickness indicated on drawings. When metal thickness is not indicated on drawings, provide thickness most appropriate for the fabrication condition to prevent oil canning, warping, or distortion.
- G. Corrosion Protection: Coat concealed surfaces which will be in contact with concrete, stone, masonry, wood, or dissimilar metals, in exterior work, with a heavy or double coat of bituminous paint.

2.4 PLASTIC MATERIALS

- A. Acrylic: Provide cast (not extruded) methyl methacrylate monomer plastic sheet with a minimum flexural strength of 16,000 psi, when tested in accordance with ATSM D790, minimum allowable continuous service temperature of 180 degrees fahrenheit.

1. Provide solid sheet, laminated sheet, or cast acrylic in size, thickness, clarity, opacity, texture, and color required for work or specified in Contract Documents.

2. Edges shall be free of saw marks, chips, and to be square to face of material. All edges are to be smooth unless otherwise specified.

3. Transparent Sheet: Where indicated as “Clear” provide colorless sheet with light transmittance of 92%, when tested in accordance with ASTM D 1003, in a non-glare finish unless otherwise indicated. The non-glare finish should not compromise the clarity or resolution of the displayed image.

4. White Translucent Sheet: Where indicated as “White” provide white translucent sheet of density required to provide uniform brightness and minimum halation.

5. Cement for acrylic plastic: Per manufacturer's specifications.
- B. Acrylic suppliers:

1. Acrylite by Evonik
acrylite.net
800-631-5384

2. Plexiglas by Arkema
plexiglas.com
215-826-2631

3. Lucite International Inc
2665 Fite Road
Memphis, TN 38127 USA
800-458-2483
- C. Polycarbonate suppliers:

1. Tuffak by Alro Plastics, or Lexan by Sabic.

a. Provide with scratch and ultra-violet resistant coating.

b. Transparent Sheet: Where indicated as “Clear” provide colorless sheet with light transmittance of 92%, when tested in accordance with ASTM D 1003, in a non-glare finish unless otherwise indicated. The non-glare finish should not compromise the clarity or resolution of the displayed image.

- 2.5 PHOTOPOLYMER SHEETING:

A. A nylon polymer emulsion shall be permanently bonded to a substrate. Sheet surface, raised graphics and Braille shall have a hardness (Shore D) of 55.
- 2.6 FOAM MATERIAL

A. Provide in standard commercial density and hardness as required for fabrication, strength, and durability. Foam to be sealed, primed and painted per manufacturers specifications.
- 2.7 ADHESIVE VINYL FILM

A. Computer-generated vinyl graphics:

1. Non-reflective: Pressure-sensitive adhesive type, .0035 inch thickness minimum, .006 inch thickness maximum, 3M “Scotchcal” series OR APPROVED EQUAL.

2. Reflective: Pressure sensitive adhesive type, .0065 inch minimum, .0075 inch maximum, 3M “Scotchlite” engineer-grade series OR APPROVED EQUAL.

B. Manufacturer:

1. 3M Commercial Graphics Division,
3M Center Building, 220-6W-06
St. Paul, MN 55144
800-328-3908

2. Avery Dennison Graphic Solutions
8080 Norton Parkway
Mentor, Ohio 44060
graphics.averydennison.com
800-282-8379

C. All inks, paints dyes, and other materials used in the process will be compatible and guaranteed against discolorations, deterioration or delamination.
- 2.8 ADHESIVES

A. Adhesive tape: VHB tape selection shall be appropriate for all materials to be bonded per manufacturer's specifications. VHB tapes used for mounting signs shall be appropriate for each condition per manufacturer's specifications. Tape thickness and width shall be appropriate per application. 3M VHB tapes or equal.

B. Liquid adhesive: Selection shall be appropriate for all materials to be bonded per manufacturer's specifications. Liquid adhesives used for mounting signs shall be appropriate for each condition per manufacturer's specifications. Silicone Silastic 732 RTV adhesive/sealant as manufactured by Dow Corning or equal.
- 2.9 CONCRETE

A. Cast-in-place concrete shall meet all applicable building code and jurisdictional requirements and applicable requirements of Section 03300. Concrete mix and

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Project Number: 2017024.00

Sign Quantity: 00

Sheet Name

Sheet Name

Drawn by: JR/LM

SG-20-10-E05

Checked by: LM/KO

- reinforcement shall be designed and specified by the Sign Contractor's engineer.
- B.

Concrete footings are to be poured in place, from thoroughly mixed and agitated concrete in order prevent unreasonable voids. All exposed faces of concrete shall receive a finish to match existing, adjacent surfaces unless otherwise noted or described in the drawings.
- C.

All brackets, anchor bolts, connectors, base plates or other attachment points for signs shall be set and allowed to fully cure in place before any signage is attached or mounted in any way.

2.10 HARDWARE

- A.

All hardware at, on and within signs to be stainless steel unless noted otherwise.
- B.

Every piece and type of hardware used on the entire project, including all sign mounting hardware, is to be thoroughly documented. Information is to include hardware type, dimension, thread sizes, material, strength rating and identification number. ID number example is McMaster Carr catalogue number, or equal.

2.11 ELECTRICAL

- A.

Sign Illumination: All illuminated signs and letters shall have an evenly distributed lighted surface. All areas of illumination shall be of equal intensity in all parts of the sign or illuminated letter; no hot spots or cool spots.
- B.

Conform to local and State Electrical Code, National Electrical Code, and U.L. listings for all materials. Provide wiring and conductors as required by code and specific application. Sign Contractor is responsible for making final connections at all signs. Make provisions for future servicing of all electrical and lighting components.
- C.

Required disconnect switches shall be provided. Locations shall be inconspicuous and shown on shop drawings for approval by Designer.
- D.

LED:

1.

Provide all the necessary components required for a complete operational LED lighting system.

2.

Provide LED lighting system appropriate for the following:

a.

Channel Letters
Color Temp: TBD | Lumens: TBD lumens /module
Lamp Life: 50,000 hours minimum

b.

Single & Double Sided Panel Backlighting Applications
Color Temp: TBD | Lumens: TBD lumens /module – per side
Lamp Life: 50,000 hours minimum
- PART 3 - EXECUTION
- 3.1 INSPECTION AND OBSERVATION
- A.

Designer reserves the right to observe work or portions of the work in the Sign
- Contractor's fabrication shop before it is shipped to the job site for installation.
- B.

Sign Contractor shall inspect installation locations for conditions which will adversely affect execution, permanence and quality of work, and shall not proceed with installation until unsatisfactory conditions have been corrected.

C.

Approval by Designer or Owner of portions of the work, shop drawings, or submittals, prior to the time of final acceptance shall not preclude rejection of delivered items which do not meet these specifications/drawings.
- 3.2 DELIVERY STORAGE & HANDLING
- A.

Transport, deliver, handle, and store materials and equipment at the job site in such manner as to prevent damage, including damage to finish and damage which might result from the intrusions of foreign matter or moisture from any source.

B.

Packaging:

1.

Maintain packaged materials in manufacturer's original container with seals unbroken and labels intact until they are incorporated into the Work.

2.

Protect assemblies from damage at the shop, in transit to the job, and until erected in place, completed, inspected and accepted.

C.

Store all materials and equipment:

1.

In accordance with manufacturer's instructions, above grade, and properly protected from weather and construction activities.
- 3.3 INSTALLATION PREPARATION
- A.

Protection:

1.

Protect all finished building surfaces, including jambs and soffits of all openings used as passage-ways through which materials and equipment are handled.

2.

Provide protection for all finished flooring surfaces in traffic areas before allowing materials and equipment to be moved over those finished surfaces.

B.

Surface Preparation:

1.

Maintain all finished surfaces clean, un-marred and suitably protected until accepted by the Owner
- 3.4 INSTALLATION
- A.

Verify the exact location with the Designer for all signs, which are not exactly dimensioned on the Contract Documents. Sign location plans represent general sign location only. The indicator representing the sign is not to scale, nor does it show exact placement. Field verify all sign locations.

B.

Prior to installation, Sign Contractor must examine areas, surfaces and conditions under which work is to be installed. Sign Contractor shall inspect installation locations for conditions which will adversely affect execution, permanence
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- Client:
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- Authorized Use:
Bid Set
- Issue Date: February 15, 2018
- | Revisions: | | | |
|------------|------|-------------|----------|
| No. | Date | Description | Drawn By |
| 1 | - | - | |
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| 7 | - | | |
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| 9 | - | - | |
| 10 | - | | |
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- Sign Quantity: **00**
- Sheet Name**
Sheet Name
- Drawn by: JR/LM **SG-20-10-E06**
Checked by: LM/KO

- and quality of work and shall not proceed with installation until unsatisfactory conditions have been corrected. Notify the Designer in writing of these conditions.

C.

Except as may be indicated otherwise on the Contract Documents, install prefabricated work plumb, level, square, and true to line.

D.

Provide anchors and fasteners required to secure work in place. All anchors/ fasteners shall be appropriate for the anchorage condition and be of non-corrosive type. Any signs that require cutting of building surface materials, shall be coordinated with the Owner and General Contractor. The Sign Contractor shall be responsible for repairing and patching the affected areas.

E.

Sign Contractor is responsible for coordination of work with other trades as required.

F.

Surfaces under adhesive-applied signs shall be smooth, clean, and free of dust, oil, fingerprints, or other foreign matter. All adhesives required shall be used in accordance with the manufacturer’s specifications. Signs shall be permanently installed and not removable unless indicated on the Contract Documents. No adhesives which will fade, discolor or delaminate as a result of ultra violet light or heat shall be used.

G.

Final adjustment and cleaning:

1.

Touch-up all scratched, marred, abraded, or otherwise damaged surface to match original finishes.

2.

Clean-up work area after installation has been completed.

3.5

WARRANTIES AND SUBSTANTIAL COMPLETION

- A.

Provide written warranty signed by the Sign Contractor agreeing to repair or replace products which fail because of faulty materials, and workmanship for a minimum period of two years from date of substantial completion, or within product manufacturer’s specified warranty, whichever is greater.

1.

Vinyl die-cut letters shall be warranted for five years against delamination from substrate.

2.

Paint finishes shall be warranted for seven years against chalking and fading.
- B.

Failure includes, but is not limited to: Fading, cracking, crazing, warping, peeling, oxidizing, delaminating, rusting, corroding, improper functioning of electrical apparatus other than lamps, loose welds or fasteners, loose joints or panels, and structural failure, shall be construed to mean failure because of faulty materials and workmanship.
- C.

Failures during the warranty period shall be repaired or replaced to the satisfaction of the Owner.
- D.

Punch List:

1.

When the Sign Contractor considers the work to be acceptable to the Owner and Designer and is substantially completed, the Sign Contractor shall notify the Owner and Designer and request a Punch List.

3.6

SITE CLEANUP

- A.

Clean-up during construction:

1.

Execute cleaning to ensure excavation sites, premises, adjacent and public properties are maintained free from accumulation of materials and construction debris.
- B.

Final Clean-up:

1.

All interior and exterior sign surfaces, including light boxes, translucent materials, and internally illuminated signs, shall be cleaned and free of dirt, dust, oil, fingerprints or other foreign matter.

2.

Repair, replace, and clean-up surrounding landscaping adjacent to excavated areas, restoring landscaping to original condition or better.

3.

All evidence of installation work or damages incurred on other surfaces shall be cleaned or repaired prior to completion of work. Protect all work from damage until acceptance by the Owner.

4.

Remove protective materials and dispose of properly.

5.

Broom clean paved or concrete surfaces. Rake clean other surfaces of excavation site.

3.7

OPERATION & MAINTENANCE DATA

- A.

Maintenance Materials:

1.

Touch-up paint: Provide Owner with one 1/2 pint can of touch-up paint of each type and color used in the work.

2.

Extra parts: Sign Contractor shall provide a listing of extra stock or parts furnished as part of the Contract.

3.

For any attic stock ordered, package separately or in like groups labeled as to contents. Include installation hardware, adhesives and installation instructions; include a reasonable array of alternate adhesives, fasteners or materials to be able to respond effectively to varying field conditions.
- B.

Project Record Documents:

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1020 Atlantic Avenue
Atlantic City, NJ 08401
609-345-5222

Authorized Use:
Bid Set

Issue Date: February 15, 2018

Revisions:			
No.	Date	Description	Drawn By
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1.

Provide electronic files of all shop drawings, product data, parts lists, nameplate data, warranties, and other information described in this section.

a.

Provide all information electronically in PDF file format.

b.

Provide specific manufacturer’s warranty. List each component covered, with day and date warranty begins, date of expiration, and name, address and telephone number of person to contact regarding problems during warranty period.

c.

Provide names, addresses, email addresses, and telephone numbers of Sign Contractor and Sign Installation Contractor.

d.

Compile and maintain a listing of all paint colors with the factory batch number and formulation code for all paints and coatings, including contact information for local representative.
2.

Provide each manufacturer’s recommendations and instructions for maintenance of all items and materials:

a.

The instructions shall cover cleaning, repair, repainting and maintenance of signs, including data on cleaning solutions or methods of application which should be avoided.

END OF SECTION 10 40 00

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