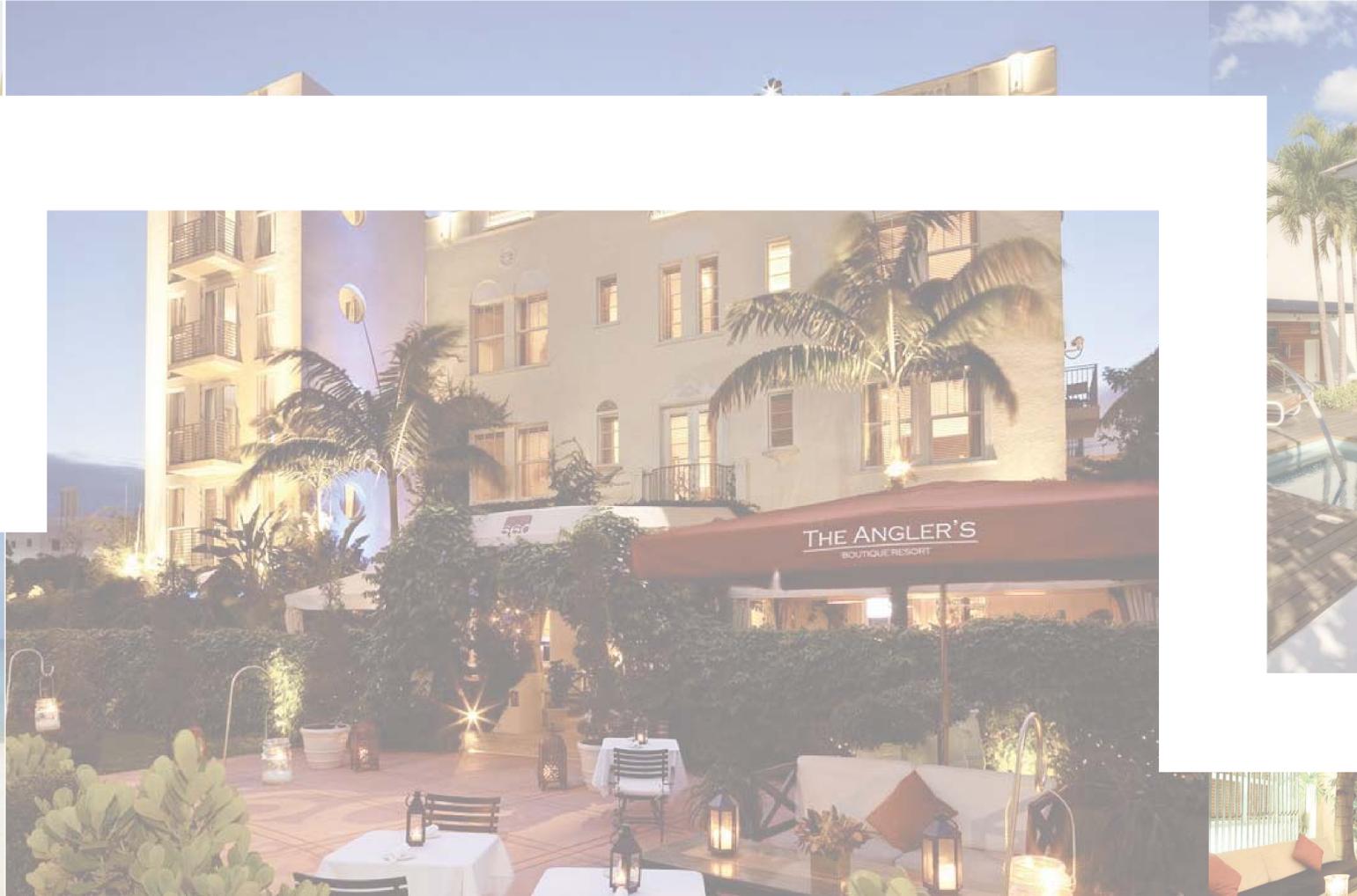


FINAL SUBMITTAL - VARIANCES FOR SIGNAGE AND DRIVE ISLE

08.21.2017



ARCHITECT



**NICHOLS  
BROSCH  
WURST  
WOLFE**  
& ASSOCIATES, INC.  
Architecture & Planning

161 ALMERIA AVENUE  
CORAL GABLES, FLORIDA 33134  
(305) 443-5206 FAX: (305) 446-2872  
JAMES P. WURST  
ARCHITECT  
LIC.20303

STRUCTURAL ENGINEERING

**OPTIMUS STRUCTURAL DESIGN, LL**

7850 NW 146th STREET, SUITE 305  
MIAMI LAKES, FLORIDA 33016  
(305)512-5860 FAX: (305)512-5861

MECHANICAL / ELECTRICAL / PLUMBING

**LAUREDO ENGINEERING CO.**

1941 SW 18th Ave.  
MIAMI, FLORIDA 33145  
(305)445-9725

SURVEYOR

**CRAVEN THOMPSON AND ASSOCIA**

3563 N.W. 53RD STREET  
FORT LAUDERDALE, FLORIDA 33309  
(954) 739-6400 FAX: (954) 739-6409  
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING  
BUSINESS No. 271

CIVIL ENGINEERING

**VSN.ENGINEERING INC.**

8550 WEST FLAGLER STREET, SUITE 11  
MIAMI, FLORIDA 33144  
(305)551-6267 FAX: (305)551-4542

LANDSCAPE ARCHITECT

**STANTEC**

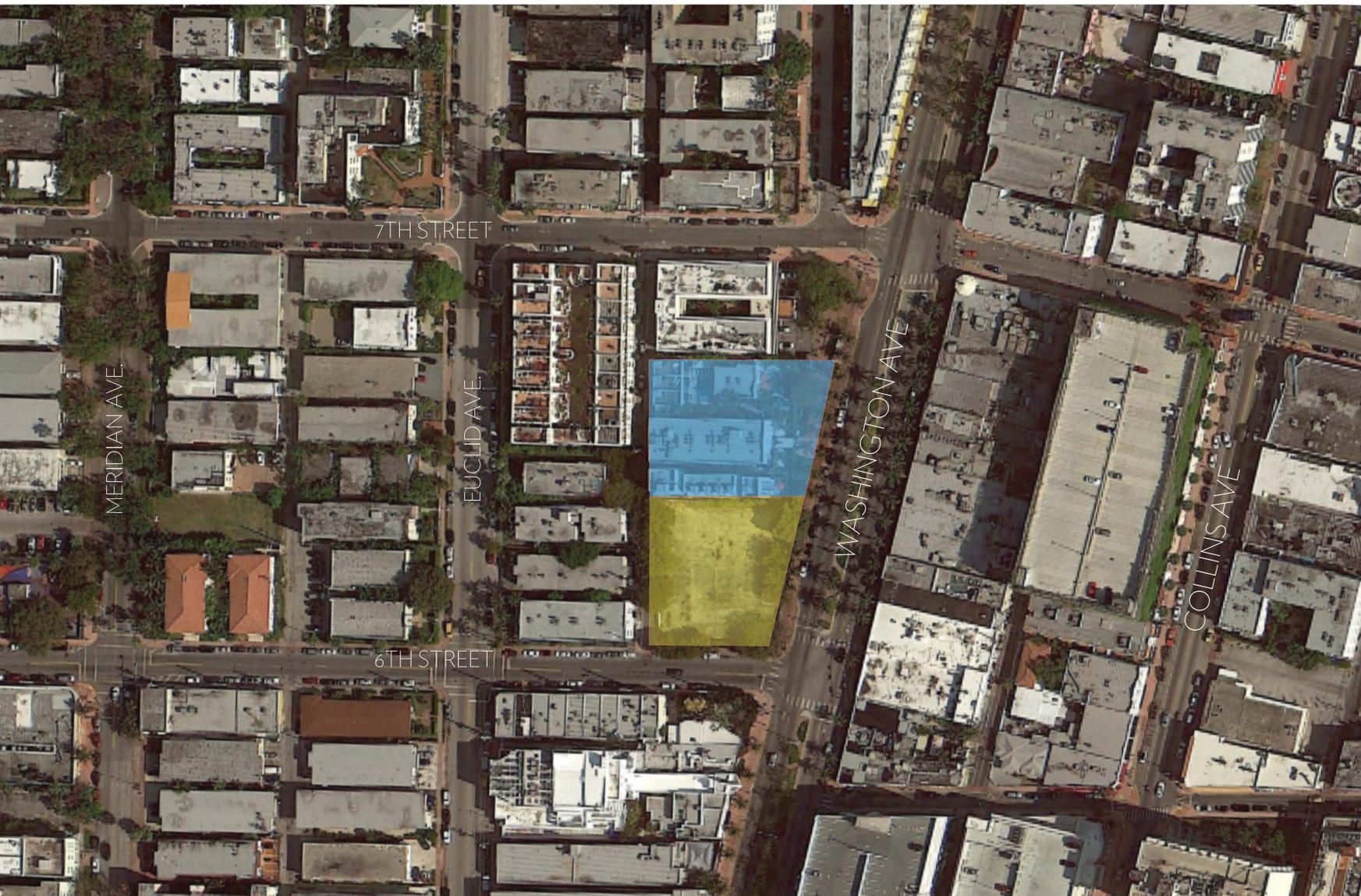
915 OUTER ROAD, SUITE 200  
ORLANDO, FLORIDA 32814  
(407) 237-0659 FAX: (407) 237-0973

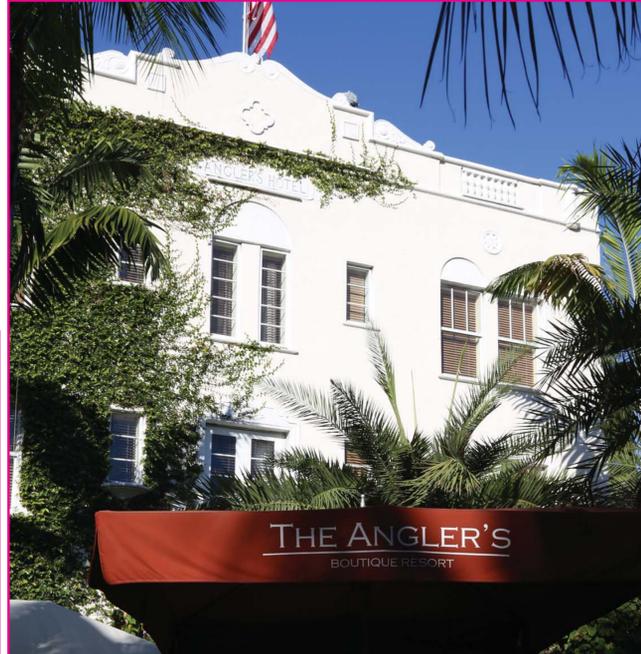
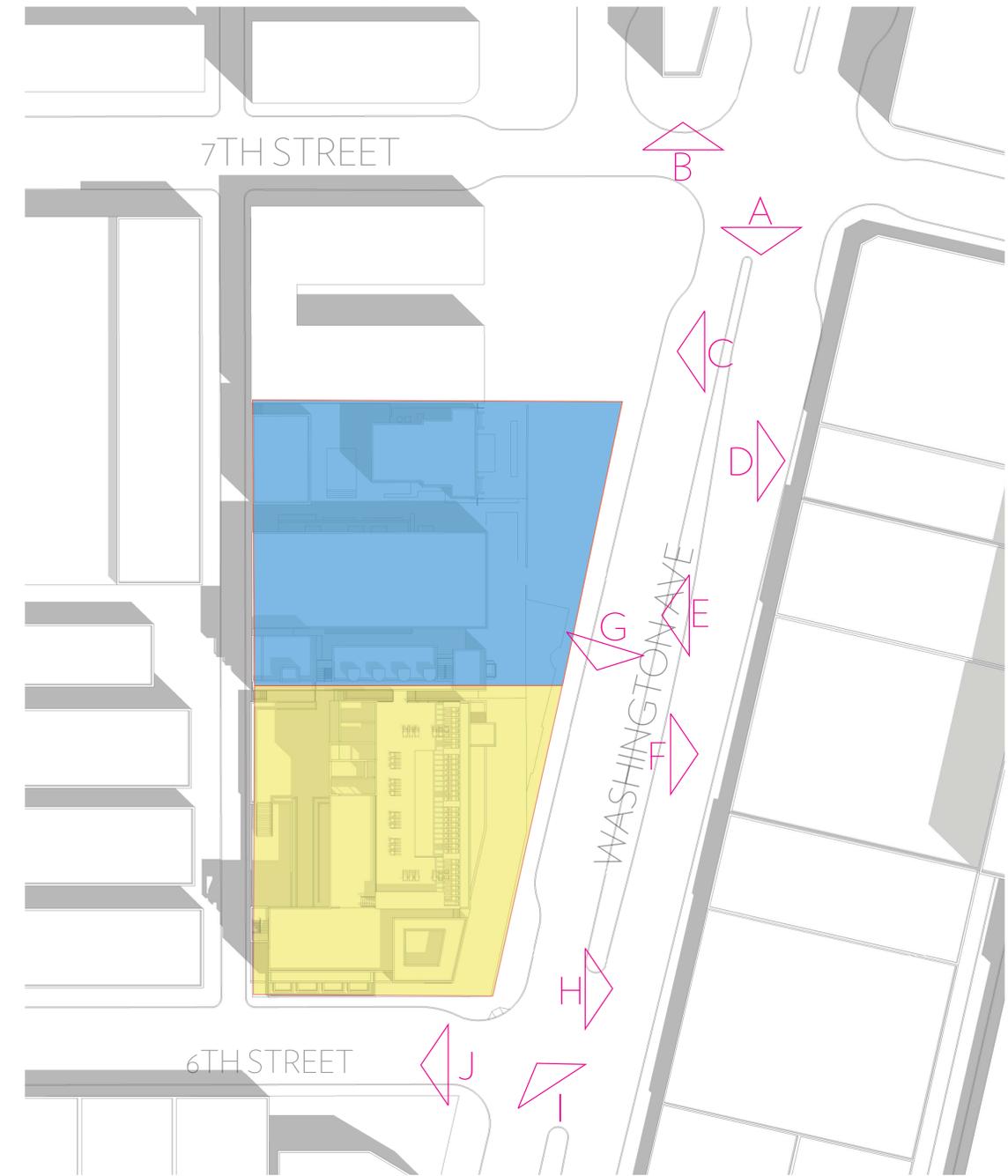
INTERIOR DESIGNER

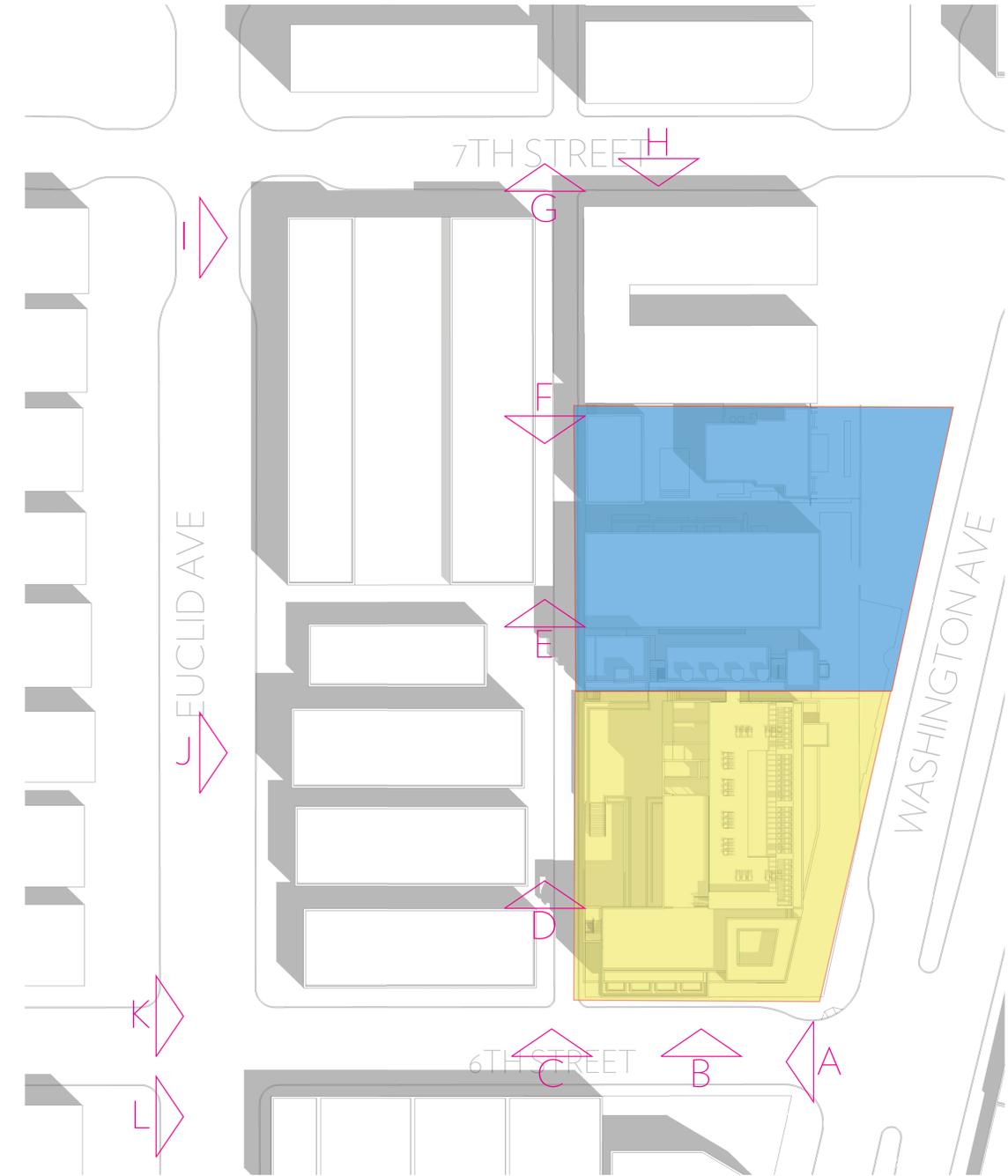
**NICOLE HOLLIS**

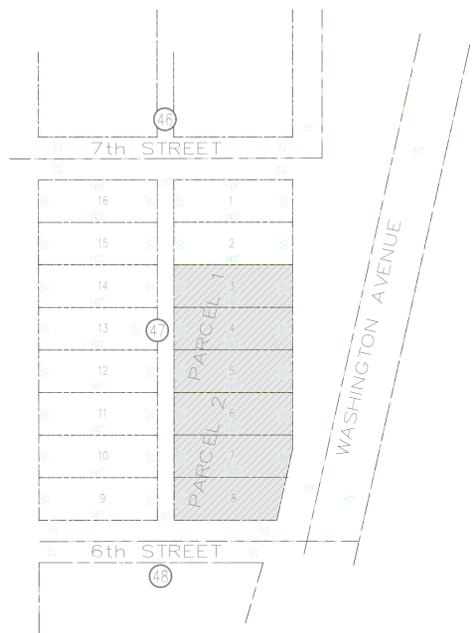
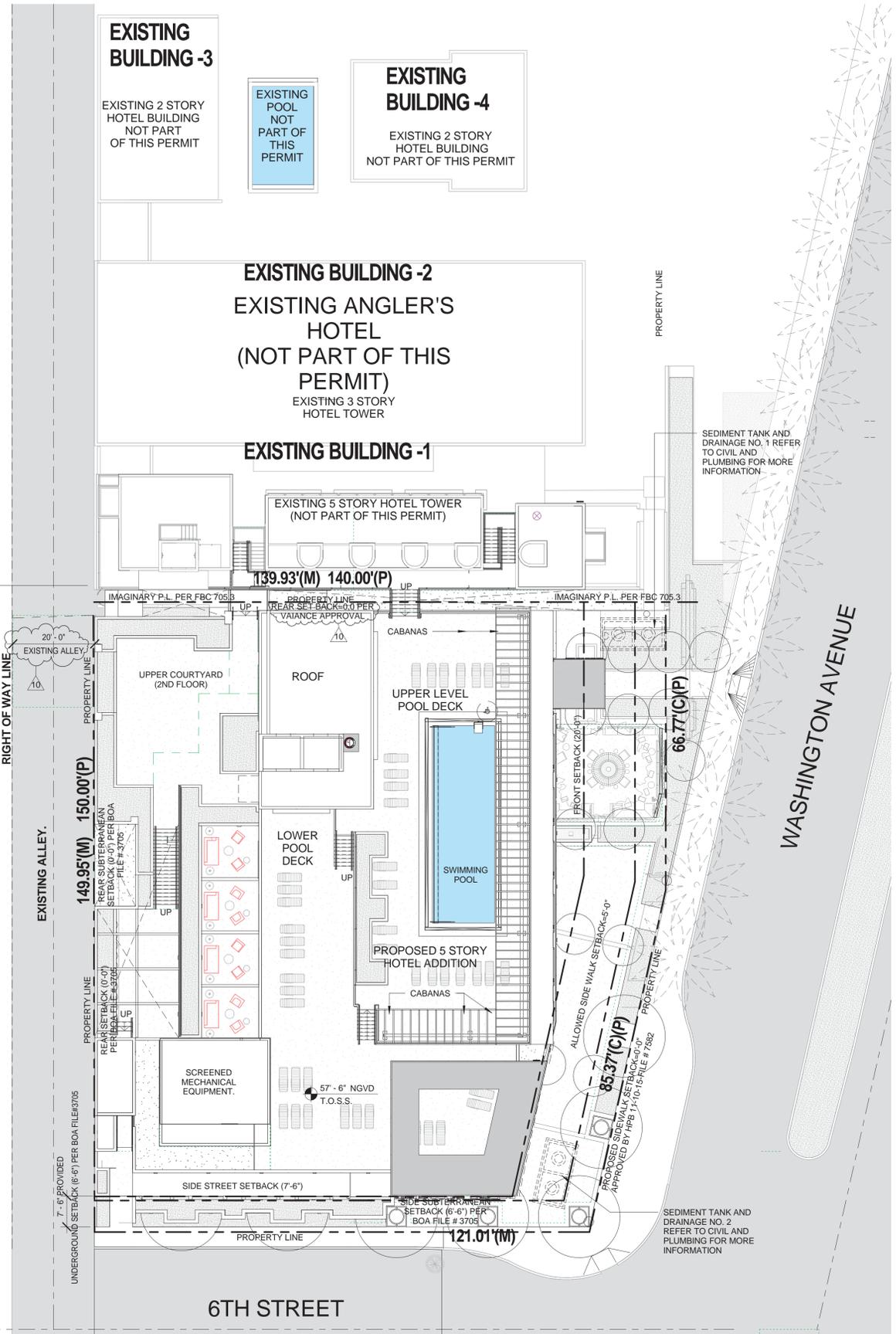
222 KEARNY STREET, SUITE 200  
SAN FRANCISCO, CALIFORNIA 94108  
(415) 733-9621











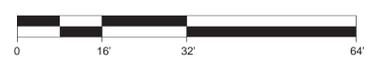
2 SITE LOCATION MAP  
1" = 100'-0"

**SCOPE:**  
SCOPE OF ARCHITECTURAL PORTION OF PERMIT AS FOLLOWS:  
1. REINTRODUCTION OF HISTORIC SIGN

**HOTEL GUESTROOMS PER FLOOR LEVEL:**

| HOTEL LEVELS                      | NUMBER OF GUESTROOMS |
|-----------------------------------|----------------------|
| LEVEL - 100                       | 5 UNITS              |
| LEVEL - 200                       | 17 UNITS             |
| LEVEL - 300                       | 21 UNITS             |
| LEVEL - 400                       | 21 UNITS             |
| LEVEL - 500                       | 21 UNITS             |
| LEVEL - 600                       | NONE                 |
| <b>TOTAL NUMBER OF UNITS = 85</b> |                      |

1 SITE PLAN  
1/16" = 1'-0"



| <b>ZONING ANALYSIS</b>   |  |  |  |
|--|--|--|--|
| <b>ZONING DISTRICT</b>   |  |  |  |
|  |  | RM-2   |  |
| <b>LEGAL DESCRIPTION</b>   |  |  |  |
| LOTS 6, 7 AND 8 BLOCK 47, OCEAN BEACH ADDITION NO. 3, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 2, AT PAGE 81, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA. |  |  |  |
| <b>LOT AREA</b>  |  |  |  |
|  | SF   | ACRES  |  |
|  | 20,192.73  | 0.4635   |  |
| <b>EXISTING BUILDING FLOOR AREA</b>  |  |  |  |
|  | ALLOWED  | PROVIDED   |  |
|  | AREA = 42,000  | AREA = 32,312  |  |
| <b>AVAILABLE FROM EXISTING SITE PER SHEET A0.03.1</b>  |  |  |  |
|  | 42,000   | - 32,312 = 9,688   |  |
| <b>FLOOR AREA</b> SEC.142-216  |  |  |  |
|  | ALLOWED  | PROVIDED   |  |
| "RM-2" ZONE: 2.0   | 40,385.46  |  |  |
| <b>AVAILABLE FROM EXISTING SITE: PER SHEET A0.03.1</b>   | <b>9,688.00</b>                                      | <b>49,933</b>  |  |
| <b>TOTAL MAXIMUM ALLOWED:</b>  | <b>50,073.00</b>                                     |  |  |
| <b>HEIGHT</b> SEC.142-217  |  |  |  |
|  | ALLOWED  | PROVIDED   |  |
|  | 5 STORY/ 50 FT                                       | 53'-0" (VARIANCE APPROVED BY BOARD OF ADJUSTMENT 11-10-2015 FILE # 7582)   |  |
| <b>SETBACKS</b> SEC.142-218  |  |  |  |
|  | REQUIRED.  | PROVIDED   |  |
| FRONT  | 20'-0"   | 20'-0"   |  |
| FRONT SIDE WALK SET BACK   | 15'-0"   | 0'-0" (VARIANCE APPROVED BY BOARD OF ADJUSTMENT 11-10-2015 FILE # 7582)    |  |
| FRONT - UNDERGROUND  | 20'-0"   | 7'-6" (VARIANCE APPROVED AT BOARD OF ADJUSTMENT HEARING ON 12/05/2014)     |  |
| SIDE STREET  | 7'-6" MIN. OR 8% OF LOT WIDTH (WHICHEVER IS GREATER) | 7'-6" MIN (VARIANCE APPROVED AT BOARD OF ADJUSTMENT HEARING ON 12/05/2014) |  |
| SIDE STREET - UNDERGROUND  | 5'-0" MIN. OR 5% OF LOT WIDTH (WHICHEVER IS GREATER) | 6'-6" (VARIANCE APPROVED AT BOARD OF ADJUSTMENT HEARING ON 06/09/2015)     |  |
| SIDE STREET SIDEWALK SET BACK  | 5'-8"  | 0'-0" (VARIANCE APPROVED BY BOARD OF ADJUSTMENT 11-10-2015 FILE # 7582)    |  |
| REAR   | 10% OF LOT DEPTH = 14'-0"                            | 0'-0" (VARIANCE APPROVED AT BOARD OF ADJUSTMENT HEARING ON 12/05/2014)     |  |
| REAR - UNDERGROUND   | NON-OCEANFRONT LOTS—0'-0"                            | 0'-0"  |  |
| <b>PARKING</b>   |  |  |  |
|  | REQUIRED   | PROVIDED   |  |
| <b>HOTEL USE</b>   |  |  |  |
| For Hotels less than 100 Units, 1/2 Space per Unit.* (Per City of Miami Beach Ordinance # 130-339(4))  | 42.5   | 43   |  |
| <b>RETAIL</b>  |  |  |  |
| 1 Space per 400SF, minus 7.5 SF per Unit.= (2,465, SF) - (85 units x 7.5SF)=2,465 - 637.5 / 400 =  | 4.6  | 5  |  |
| <b>MEETING ROOM</b>  |  |  |  |
| FOR REGISTERED HOTEL GUEST USE ONLY  | 0  | 0  |  |
| <b>BAR</b>   |  |  |  |
| 1 Space Per 4 Seats , minus 1 seat for every 2 Units.  | 6.4  | 6  |  |
| Total number of Seats = 68   |  |  |  |
| Total number of Rooms=85   |  |  |  |
| 85 / 2 = 42.5  |  |  |  |
| Total parking req.=(68-42.5) / 4 = 6.38  |  |  |  |
| <b>TOTAL</b>   |  | 53.5 (54)  | 54   |
| 100% VALET PARKING   |  | <b>TANDEM SPACE ALLOWED</b>  | <b>TRIPLE SPACE</b> (VARIANCE APPROVED AT BOARD OF ADJUSTMENT HEARING ON 12/05/2014) |



 WASHINGTON AVE & 6TH STREET INTERSECTION  
NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

 Stantec

 Ohm lighting

the ANGLER'S hotel

SIGNS  
8.21.2017



 WASHINGTON AVE & 6TH STREET INTERSECTION  
NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

 Stantec

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SIGNS  
8.21.2017



 WASHINGTON AVE  
NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

 Stantec

 Ohm lighting

the ANGLER'S hotel

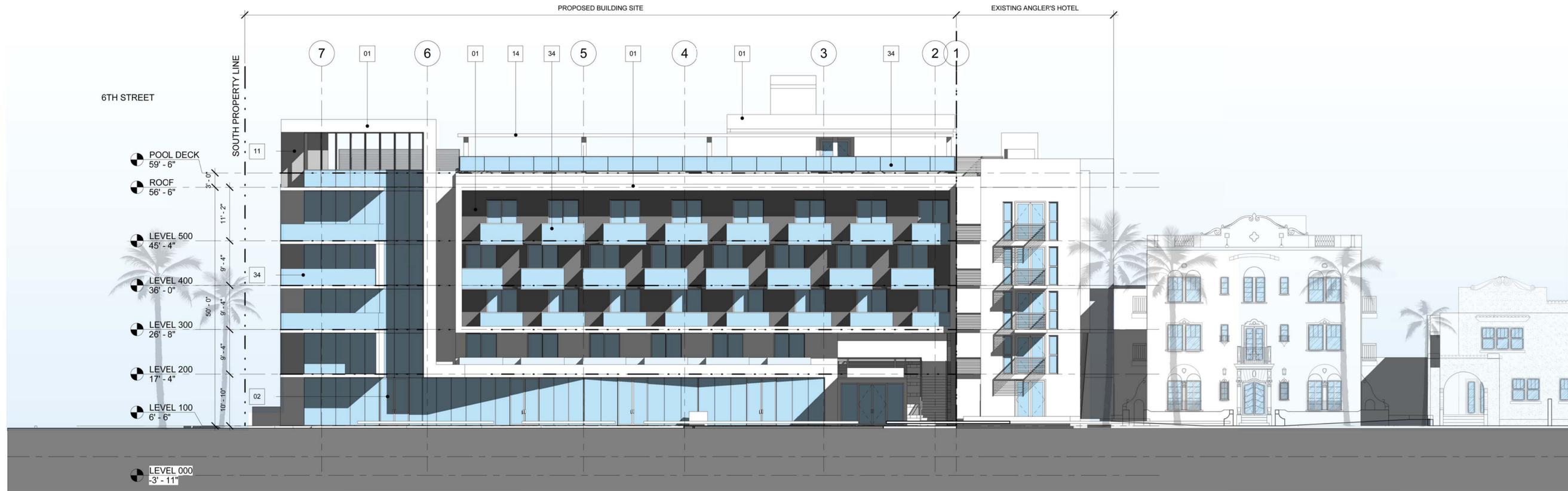
SIGNS  
8.21.2017



1 OVERALL EAST ELEVATION  
A-2.0 1/16" = 1'-0"

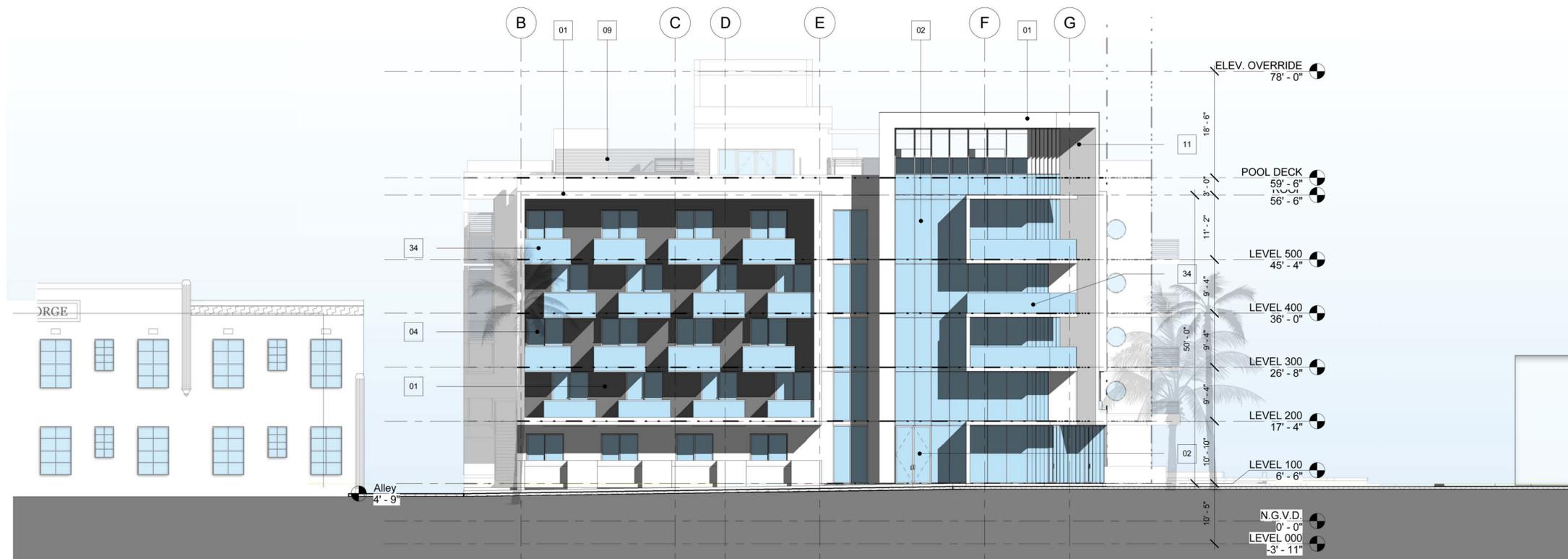


2 OVERALL SOUTH ELEVATION  
A-2.0 1/16" = 1'-0"

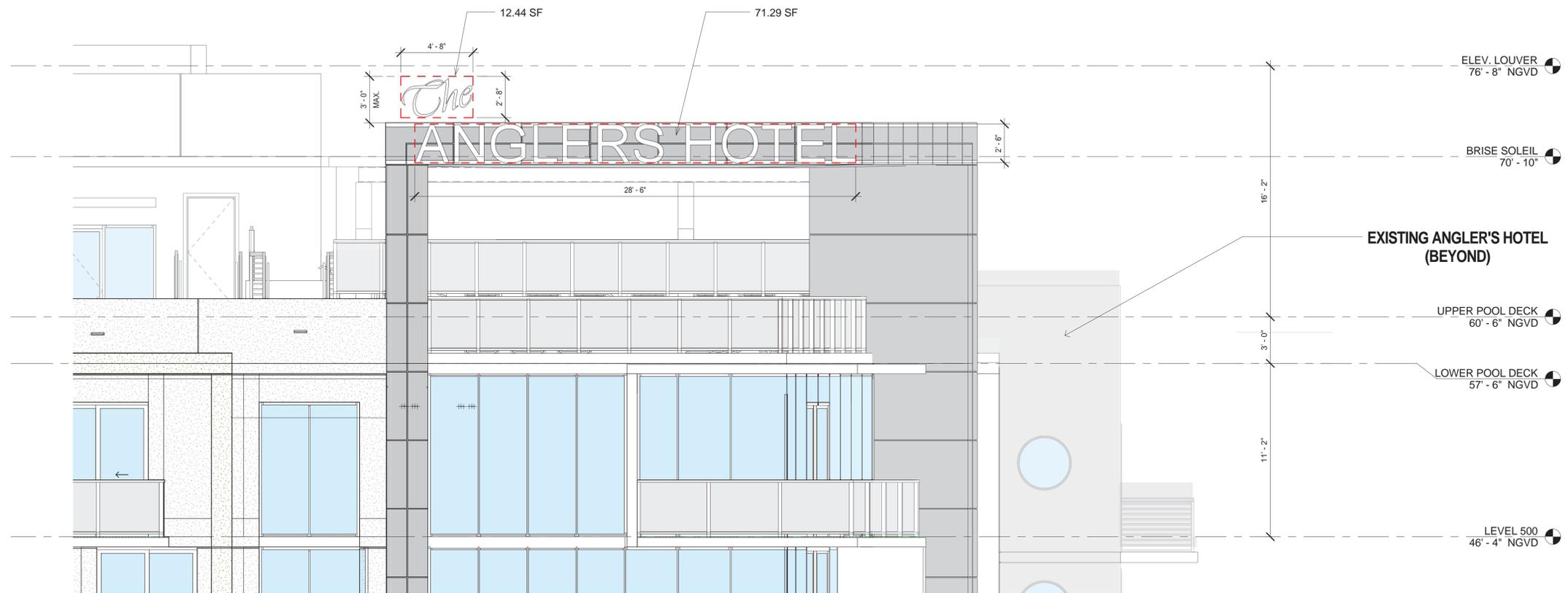


1 ENLARGED EAST ELEVATION  
A-2.1 3/32" = 1'-0"

| KEYNOTE LEGEND |  |
|----------------|--|
| KEY VALUE      | DESCRIPTION  |
| 01             | MASONRY: CMU/CONCRETE SUBSTRATE W/SMOOTH STUCCO FINISH, HIGH BUILD, ACRYLIC WATERPROOFING COATING (THOROCOAT BY BASF BUILDING SYSTEMS, OR ACCEPTABLE EQUIVALENT). COLOR PAINT TO BE SELECTED BY ARCHITECT.   |
| 02             | ALUMINUM WINDOW/DOOR WALL ASSEMBLY W/KYNAR FIN. W/LAMINATED TINTED GLASS W/ A HIGH PERFORMANCE COATING; TO MEET WIND LOAD REQUIREMENTS. PROVIDE SAMPLES TO ARCHITECT FOR REVIEW.   |
| 04             | ALUMINUM GLASS DOOR ASSEMBLY W/KYNAR FIN. W/ LAMINATED TINTED GLASS W/ A HIGH PERFORMANCE COATING; TO MEET WIND LOAD REQUIREMENTS; PROVIDE SAMPLES TO ARCHITECT FOR REVIEW.  |
| 09             | ALUMINUM EXTRUDED HORIZONTAL VISION BARRIER GRILL.   |
| 11             | ALUMINUM COMPOSITE MATERIAL BUILDING PANEL W/ KYNAR FINISH.  |
| 14             | EXTRUDED ALUMINUM TRELLIS SYSTEM WITH KYNAR FINISH. COLOR TO BE SELECTED BY ARCHITECT; PROVIDE SHOP DWGS. AND PRODUCT SAMPLES TO ARCHITECT FOR REVIEW. DESIGNED TO MEET WIND LOAD REQUIREMENTS (REFER TO STRUCT. DRAWINGS FOR WIND LOADS).   |
| 15             | STAINLESS STEEL CABLE RAILING SYSTEM - 3" DIA. IPE WOOD HANDRAIL WITH 1/4" DIA. 1X19 TYPE 316 STAINLESS STEEL HORIZONTAL CABLES (TO RESIST A 4" DIAM. OBJECT) AND TYPE 316 STAINLESS STEEL BAR VERTICAL POST SET IN GROUT. SYSTEM TO MEET REQUIREMENTS OF THE FLORIDA BUILDING CODE. |
| 34             | ALUMINUM/GLASS GUARDRAIL ASSEMBLY: KYNAR FINISH AND 9/16" LAMINATED GLASS; DESIGNED TO MEET THE WIND LOAD REQUIREMENTS (REFER TO STRUCT. DRAWINGS FOR WIND LOADS).   |



2 ENLARGED SOUTH ELEVATION  
A-2.1 3/32" = 1'-0"



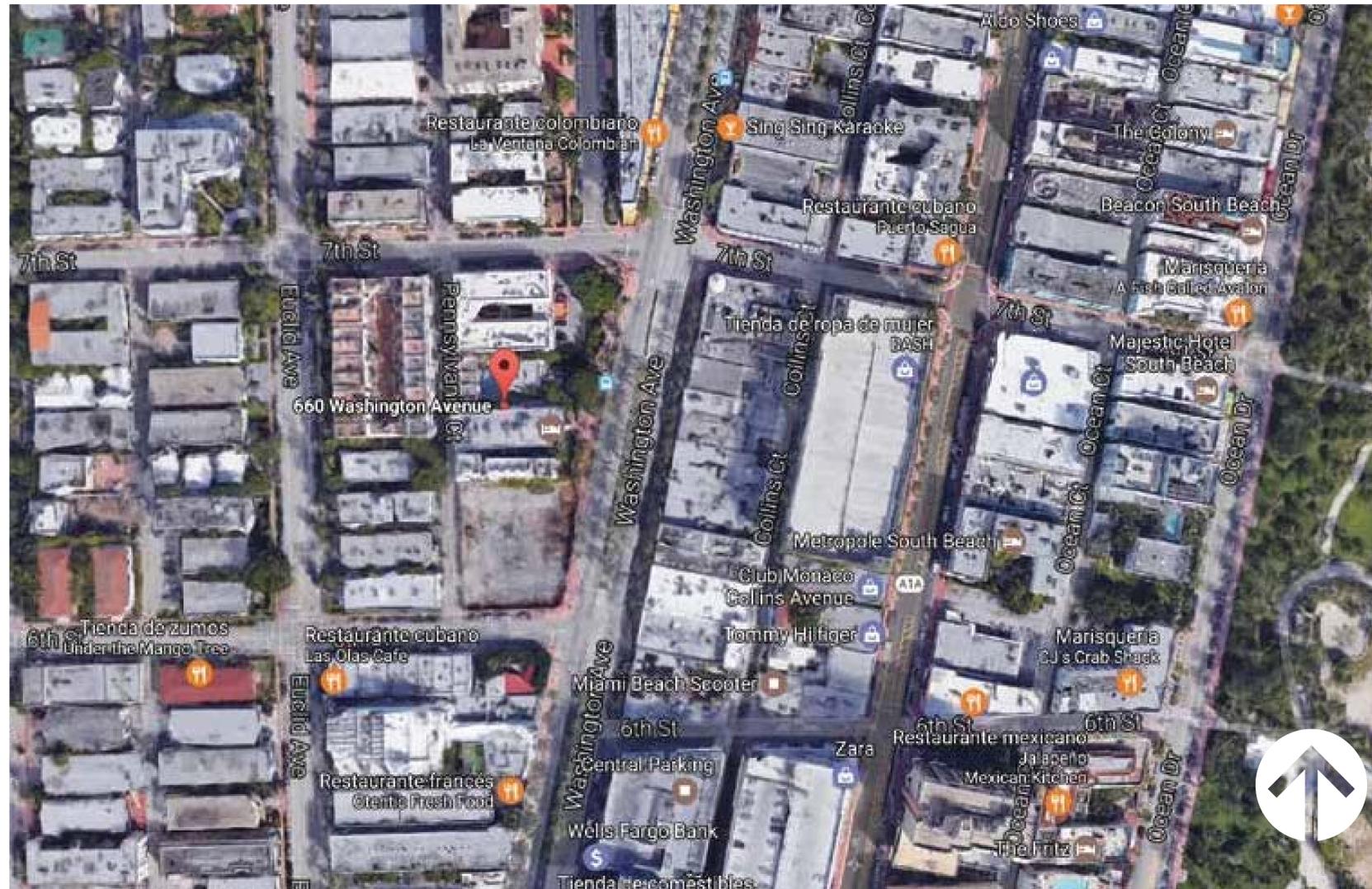
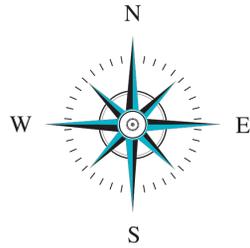
BUILDING FACADE ON 6TH STREET = 98'-4"  
 ALLOWED SIGNAGE AREA = 98'-4" X .75 = 73.72 SF  
 PROPOSED SIGN AREA = 83.73 SF

\* REINTRODUCTION OF HISTORIC SIGN

1 SIGNAGE DIMENSIONS  
 A-0.4 1/4" = 1'-0"

# PERMIT DRAWING

## The Anglers Hotel Top View



AERIAL VIEW



540 W. 83 Street  
Hialeah, FL 33014  
305-362-3333

www.acusigns.com

Project:  
THE ANGLERS HOTEL

Address:  
660 Washington Ave,  
Miami Beach, FL 33139

Account Manager:  
Andrew Merrill Facio

Designer:  
Martin Rodger

|                  |                    |
|------------------|--------------------|
| Scale:<br>N.T.S. | Date:<br>8/14/2017 |
|------------------|--------------------|

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|     |                  |
|-----|------------------|
| No. | Sheet:<br>1 of 6 |
|-----|------------------|

### CLIENT APPROVAL

- APPROVED AS SHOWN
- APPROVED WITH CHANGES
- DISAPPROVED

DATE: / /2017

BY: (PLEASE PRINT NAME)

SIGNATURE

**General Notes:** 1 Design is in accordance with the requirements of the Fla Bldg Code 5th Ed (2014) for use within & outside the High Velocity Hurricane Zone (HVHZ). 2 This engineering certifies only the structural integrity of those systems, components, and/or other construction explicitly specified herein. 3 Electrical notes, details, & specifications are provided by and are the sole responsibility of the electrical contractor. No electrical review has been performed and no certification of such is intended. 4 Aluminum extrusions shall be 6063-T6 or stronger, unless noted otherwise.

CHRISTIAN LANGLEY LICENSE  
 Easy Seals  
 Christian Langley  
 Florida PE #67382  
 Boca Raton, FL 33432  
 1-888-371-3113  
 1200 N Federal Hwy, #200  
 Boca Raton, FL 33432  
 1-888-371-3113  
 Wall components & cladding:  
 • Sign Height = 80 ft max  
 • Kzt=1.0, Kd=0.85, G=0.85  
 • Zone 4: ± 49.6 psf  
 • Zone 5: ± 99.2 psf  
 • Risk Category 2 Struct.  
 • V=175 mph  
 • Exposure 'D'  
 • ASD Load Coeff = 0.6

# PERMIT DRAWING

## The Anglers Hotel Front View



540 W. 83 Street  
Hialeah, FL 33014  
305-362-3333

[www.acusigns.com](http://www.acusigns.com)

Project:  
THE ANGLERS HOTEL

Address:  
660 Washington Ave,  
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Account Manager:  
Andrew Merrill Facio

Designer:  
Martin Rodger

|                  |                    |
|------------------|--------------------|
| Scale:<br>N.T.S. | Date:<br>8/14/2017 |
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|     |                  |
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| No. | Sheet:<br>2 of 6 |
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DATE: / /2017

BY: (PLEASE PRINT NAME)

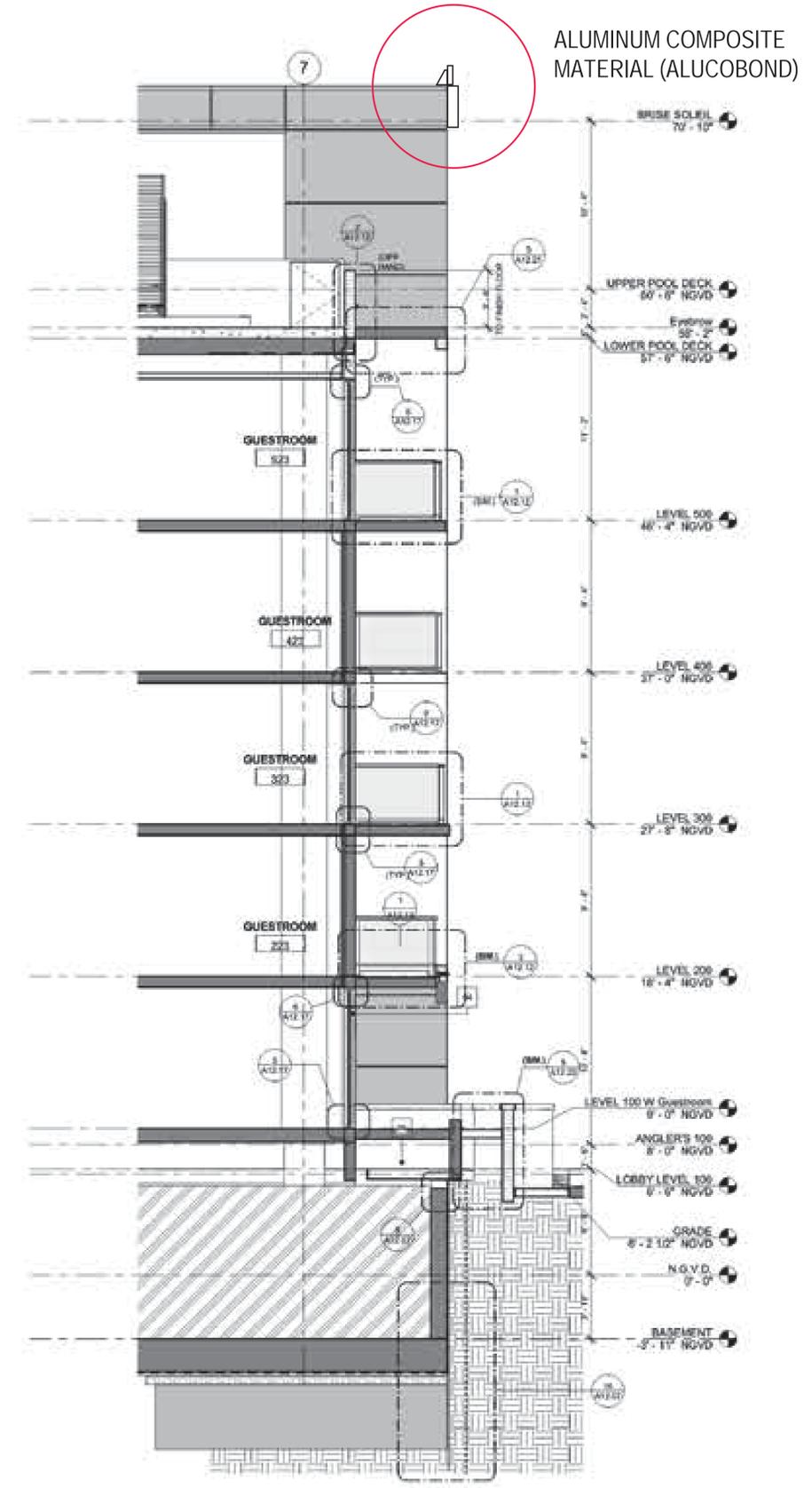
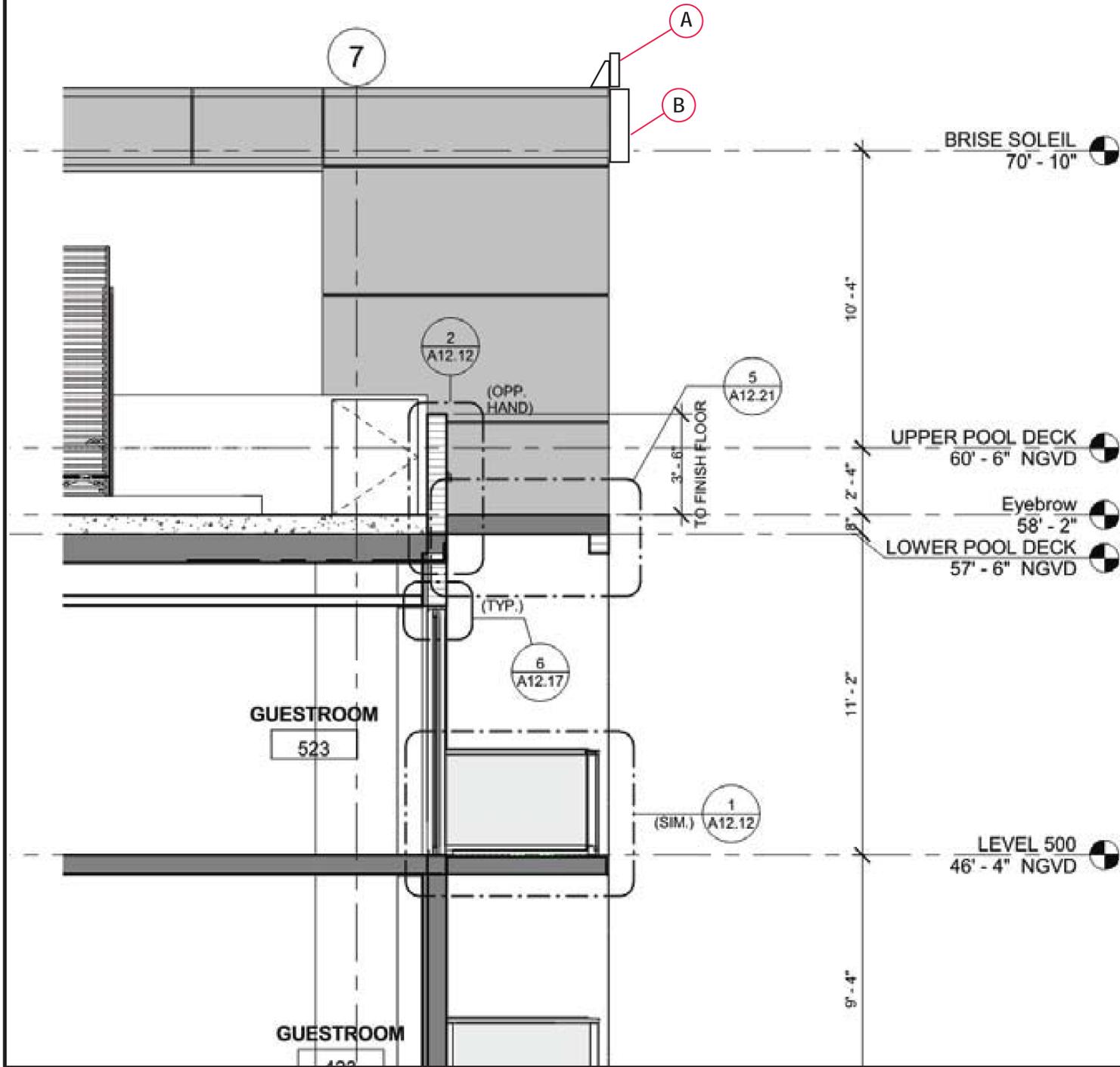
SIGNATURE

Christian Langley #200  
 Florida PE #67382  
 Cert of Auth #31124  
 1200 N Federal Hwy, #200  
 Boca Raton, FL 33432  
 1-888-371-3113  
 Wall components & cladding:  
 • Sign Height = 80 ft max  
 • Kzt=1.0, Kd=0.85, G=0.85  
 • Zone 4: ± 49.6 psf  
 • Zone 5: ± 99.2 psf  
 ASCE 7-10 • V=175 mph  
 WIND LOADS: • Exposure 'D' • ASD Load Coeff = 0.6

**General Notes:** ① Design is in accordance with the requirements of the Fla Bldg Code 5th Ed (2014) for use within & outside the High Velocity Hurricane Zone (HVHZ). ② This engineering certifies only the structural integrity of those systems, components, and/or other construction explicitly specified herein. ③ Electrical notes, details, & specifications are provided by and are the sole responsibility of the electrical contractor. No electrical review has been performed and no certification of such is intended. ④ Aluminum extrusions shall be 6063-T6 or stronger, unless noted otherwise.

# PERMIT DRAWING

## The Anglers Hotel Building Side View



CHRISTIAN LANGLEY LICENSE  
**ACU signs**  
 SINCE 1939  
 540 W. 83 Street  
 Hialeah, FL 33014  
 305-362-3333  
 www.acusigns.com

Project:  
**THE ANGLERS HOTEL**  
 Address:  
 660 Washington Ave,  
 Miami Beach, FL 33139

Account Manager:  
**Andrew Merrill Facio**

Designer:  
**Martin Rodger**

Scale:  
 N.T.S.      Date:  
 8/14/2017

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No.      Sheet:  
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 Christian Langley  
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 Cert of Auth #31124  
 1200 N Federal Hwy, #200  
 Boca Raton, FL 33432  
 1-888-371-3113  
 Wall components & cladding:  
 • Sign Height = 80 ft max  
 • Risk Category 2 Struct.  
 • Exposure 'D'  
 • ASD Load Coeff = 0.6  
 • Zone 4: ± 49.6 psf  
 • Zone 5: ± 99.2 psf

# PERMIT DRAWING

## The Anglers Hotel Channel Letters and Open Face Channel Letter with Neon

QUANTITY 1

CITY MAX. ALLOWED SQ FT:  
PROPOSED SQ FT: 83.73

VECTORIZED LOGO: YES

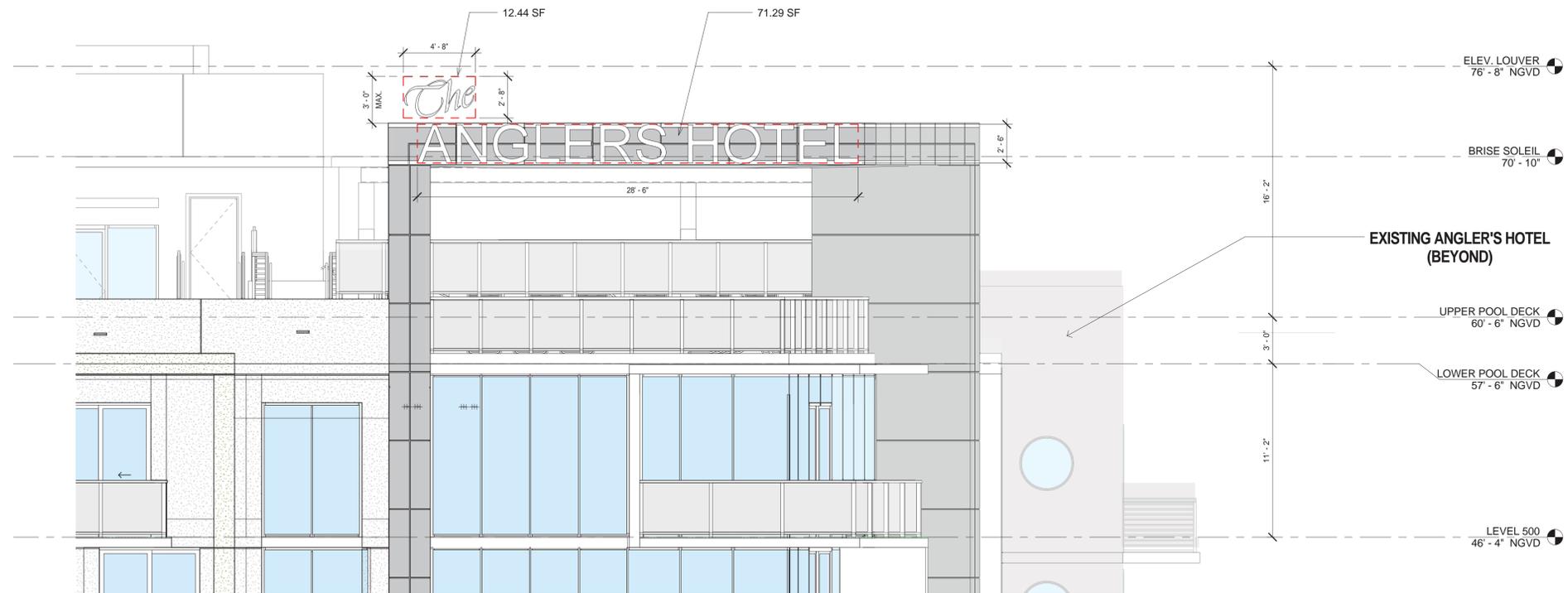
### FABRICATION NOTES:

A) ALUMINUM CHANNEL LETTER PAINTED BLACK  
FACE: ACRYLIC FACES WITH BLACK DAY/NIGHT VINYL  
RETURN DEEP SIZE: 3"  
STROKE: 1.5"  
TRIM COLOR: BLACK  
MOUNTING: WITH BRACKETS  
ILLUMINATION: RED LEDS

B) ALUMINUM OPEN FACE CHANEL LETTERS WITH NEON  
RETURN DEEP SIZE: 6"  
STROKE: 3.5"  
MOUNTING: FLUSH TO WALL  
ILLUMINATION: 10 MM RUBY RED NEON

### COLOR

■ PMS NEUTRAL BLACK C



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No. \_\_\_\_\_ Sheet: 4 of 6

### CLIENT APPROVAL

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- DISAPPROVED

DATE: / / 2017

BY: (PLEASE PRINT NAME)

SIGNATURE

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 • Zone 4: ± 49.6 psf • Zone 5: ± 99.2 psf  
 ASCE 7-10 • V=175 mph • Risk Category 2 Struct.  
 WIND LOADS: • Exposure 'D' • ASD Load Coeff = 0.6

# PERMIT DRAWING DETAIL

## A) CHANNEL LETTERS LED ILLUM.

TOTAL OF (2) POWER SUPPLY REQD.  
TOTAL OF 5.6 AMPS  
Power Requirements: 120V - 20 AMP Circuit

No 12 COPPER WIRE FOR GROUNDING/BONDING  
OF SIGN AS PER NEC 250 TIME DEVICE REQUIRED  
FOR EACH CIRCUIT PER FBC  
IN COMPLIANCE WITH THE "FLA. ENERGY CODE"

ALL ELECTRICAL COMPONENTS ARE UL LISTED  
SIGN GROUNDED ACCORDING TO NEC 600

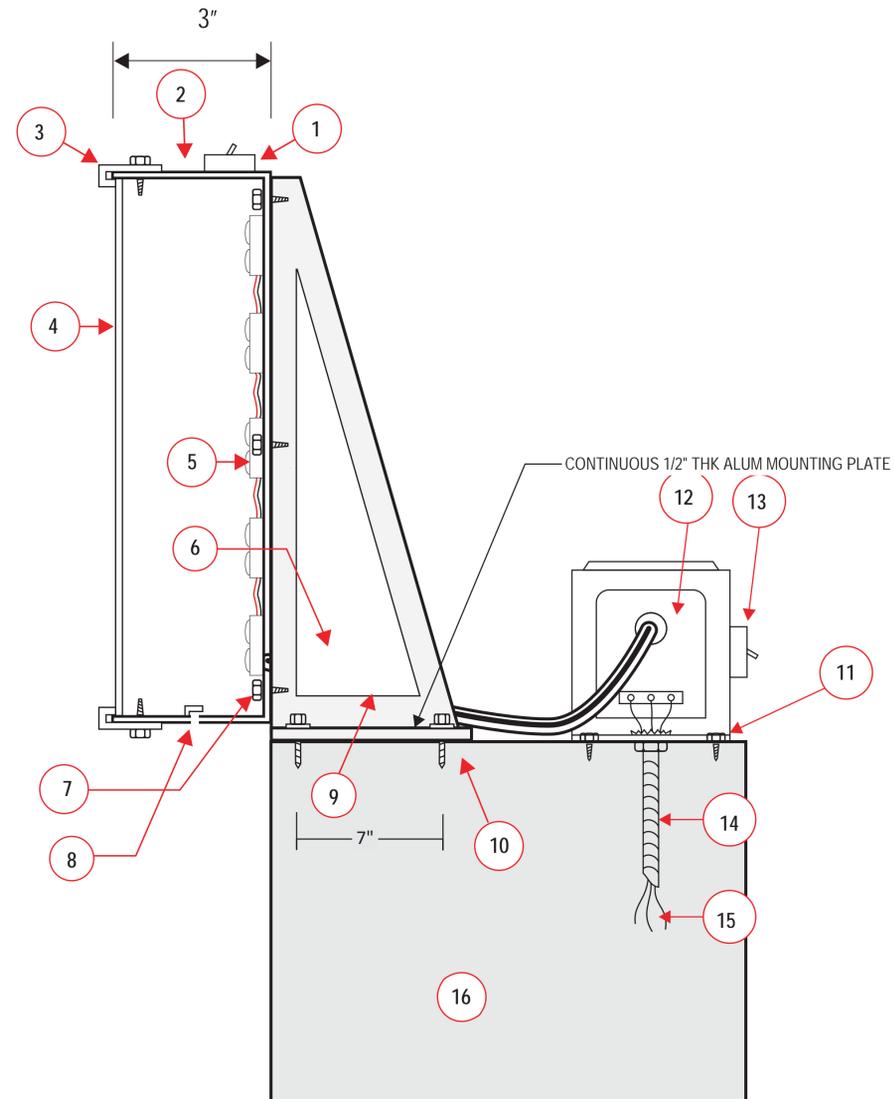
**ELECTRICAL INFORMATION**  
2- C2240 POWER SUPPLY @ 2.8 AMPS EACH

**TOTAL LOAD = 5.6 AMPS**  
1 - 20 AMP CIRCUIT REQUIRED  
1 - 20 AMP DISCONNECT SWITCH  
1/2" FLEX CONDUIT WITH 3 THWN WIRES  
TO EXISTING PRIMARY LINE BY OTHERS  
TIME DEVICE BY OTHERS  
SIGN BEARS MANDATORY UL LABELS SIGN  
GROUNDING AND BONDING AS PER NEC 250  
**CIRCUIT # 8**

 THIS PRODUCT IS LISTED BY UNDERWRITERS  
LABORATORY AND BEARS THE LABELS.

### DETAILS

- 1 1-20 AMP EXTERIOR DISCONNECT SWITCH
- 2 CHANNEL LETTERS .090 ALUM. BACKS & .063 SIDES
- 3 1" JEWELITE W/ S.M.S. @ 8" C'S.
- 4 3/16" PLASTIC FACES 12 V L.E.D.
- 5 12 V L.E.D.
- 6 1/2" FLEXIBLE CONDUIT (SECONDARY)
- 7 #10 x 3/4 SELF TAPPING SCREWS: MIN (5) PER LETTER
- 8 WEEP HOLES (IF APPLICABLE)
- 9 1-1/2" X 1-1/2" X 3/16" ALUMINUM ANGLE.
- 10 3/8" TOGGLE BOLTS TO ACM PANELS:  
(6) PAIRS SPACED 7" APART = (12) ANCHORS TOTAL
- 11 #10 x 3/4 SELF TAPPING SCREWS (4)
- 12 L.E.D POWER SUPPLY (LOW VOLTAGE)
- 13 20 AMP DISCONNECT SWITCH
- 14 HALF INCH (1/2") CONDUIT W/ #12 THW PRIMARY WIRE
- 15 PRIMARY WIRE (EXIST. ELECT. BY OTHERS)
- 16 4MM ACM PANEL (ALUCOBOND) ON METAL  
STUD-FRAMED STRUCTURE



## ELECTRICAL INFO

**"CODES IN EFFECT" NEC 2011 AND FBC2014 (5TH Edition)**  
EACH SIGN WILL HAVE ITS OWN DEDICATED CIRCUIT.  
NO OTHER LOADS WILL BE SUPPLIED BY THE SIGN CIRCUIT PER NEC 600.5(A).  
EACH SIGN WILL HAVE A DISCONNECT SWITCH IN VIEW.  
ALL SIGNAGE WILL BE CONTROLLED BY A ASTRONOMICAL TIME WITH  
A MIN 10 HOURS OF BACK-UP PER NEC 600.6 & FBC 13-415.AB.1.4

### OPTIONAL MEANS OF SIGNAGE DISCONNECTION

- (1) DISCONNECT SWITCH on an individual channel letter(all types) or cabinet sign (all types)
- (2) DISCONNECT SWITCH on the wall (any type), eyebrow, hanging slab, canopy mansored roof...
- (3) LOCK-OUT SWITCH at the existing circuit breakers(s) inside of property
- (4) TIME MANAGEMENT SYSTEM as utilized to control all lighting/signs/other appliances  
as utilized by a store/place of business...

### SIGN MARKINGS:

- (A) Signs and outline lighting systems.  
Signs and outline lighting systems shall be marked with the manufacturer's name, trademark, or other means of identification; and input voltage and current rating.
- (B) Signs with lampholders for incandescent lamps.  
Signs and outline lighting systems with lampholders for incandescent lamps shall be marked to indicate the maximum allowable lamp wattage per lampholder. The markings shall be permanently installed, in letters at least 6 mm (1/4 in.) high, and shall be located where visible during relamping.
- (C) Section Signs.  
Section Signs shall be marked to indicate that field-wiring and installation instructions are required. The electrical connections to same are under a different permit.

## CLIENT APPROVAL

- APPROVED AS SHOWN  
 APPROVED WITH CHANGES  
 DISAPPROVED

DATE: / /2017

BY: (PLEASE PRINT NAME)

SIGNATURE

No. Sheet: 5 of 6

Project:  
**THE ANGLERS HOTEL**  
Address:  
660 Washington Ave,  
Miami Beach, FL 33139

Account Manager:  
**Andrew Merrill Facio**

Designer:  
**Martin Rodger**

Scale: N.T.S. Date: 8/14/2017

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No. Sheet: 5 of 6

540 W. 83 Street  
Hialeah, FL 33014  
305-362-3333

www.acusigns.com



Christian Langley License #67382  
1200 N Federal Hwy, #200  
Boca Raton, FL 33432  
1-888-371-3113  
Wall components & cladding:  
• Sign Height = 80 ft max  
• Kzt=1.0, Kd=0.85, G=0.85  
• Zone 4: ± 49.6 psf  
• Zone 5: ± 99.2 psf  
ASCE 7-10 • V=175 mph  
WIND LOADS: • Exposure 'D' • ASD Load Coeff = 0.6

# PERMIT DRAWING DETAIL

## B) OPEN FACE CHANNEL LETTERS NEON ILLUM.

TOTAL OF (2) TRANSFORMERS  
TOTAL OF 5.6 AMPS  
Power Requirements: 120V - 20 AMP Circuit

No 12 COPPER WIRE FOR GROUNDING/BONDING  
OF SIGN AS PER NEC 250 TIME DEVICE REQUIRED  
FOR EACH CIRCUIT PER FBC  
IN COMPLIANCE WITH THE "FLA. ENERGY CODE"

ALL ELECTRICAL COMPONENTS ARE UL LISTED  
SIGN GROUNDED ACCORDING TO NEC 600

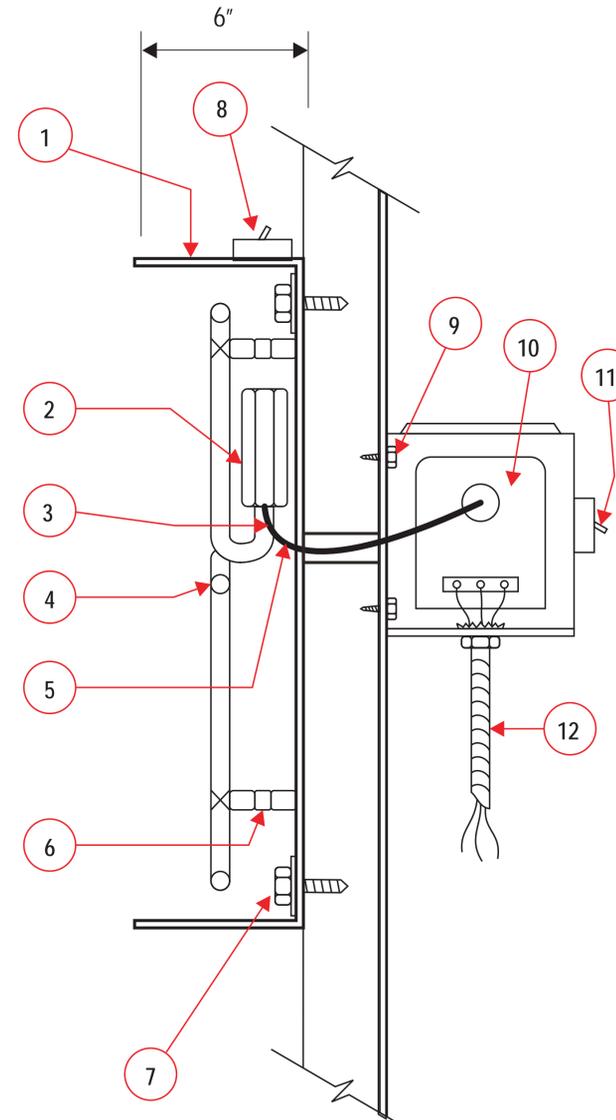
**ELECTRICAL INFORMATION**  
2- TRANSFORMERS @ 2.8 AMPS EACH

**TOTAL LOAD = 5.6 AMPS**  
1 - 20 AMP CIRCUIT REQUIRED  
1 - 20 AMP DISCONNECT SWITCH  
1/2" FLEX CONDUIT WITH 3 THWN WIRES  
TO EXISTING PRIMARY LINE BY OTHERS  
TIME DEVICE BY OTHERS  
SIGN BEARS MANDATORY UL LABELS SIGN  
GROUNDING AND BONDING AS PER NEC 250  
**CIRCUIT # 8**

 THIS PRODUCT IS LISTED BY UNDERWRITERS  
LABORATORY AND BEARS THE LABELS.

### DETAILS

- ① .063 SIDES AND BACK (RIVETED)
- ② ELECTRODES
- ③ NEON END CAPS
- ④ NEON TUBE 12MM
- ⑤ 1/2 CONDUIT W/ 15000 KV GTO SECONDARY WIRE (RATED FOR 105")
- ⑥ GLASS TUBE SUPPORT
- ⑦ 1/4" TOGGLE BOLTS: MIN (4) PER LETTER TO 4MM ACM PANEL (ALUCOBOND) ON METAL STUD-FRAMED STRUCTURE
- ⑧ 20 AMP DISCONNECT SWITCH (IN VIEW)
- ⑨ #10 x 3/4 SELF TAPPING SCREWS (4)
- ⑩ TRANSFORMER IN TRANSFORMER CAN
- ⑪ 20 AMP DISCONNECT SWITCH
- ⑫ HALF INCH (1/2") CONDUIT W/ #12 THW PRIMARY WIRE (EXIST. ELECT. BY OTHERS)



## ELECTRICAL INFO

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No.

Sheet:  
6 of 6

## CLIENT APPROVAL

- APPROVED AS SHOWN
- APPROVED WITH CHANGES
- DISAPPROVED

DATE: / /2017

BY: (PLEASE PRINT NAME)

SIGNATURE

## DESIGN CALCULATIONS

FOR

### THE ANGLER'S HOTEL WALL-MOUNTED SIGNS

660 Washington Ave – Miami Beach

**GENERAL NOTES:**

- Design is in accordance with the Florida Building Code 5th Edition (2014) for use within and outside the High Velocity Hurricane Zone (HVHZ).
- Wind loads have been calculated per the requirements of ASCE 7-10 as shown herein.
- These engineering calculations pertain only to the structural integrity of those systems, components, and/or other construction explicitly specified herein and/or in accompanying engineering drawings. The existing host structure (if any) is assumed to be in good condition, capable of supporting the loaded system, subject to building department approval. No warranty, either expressed or implied, is contained herein.
- System components shall be as noted herein. All references to named components and installation shall conform to manufacturer's or industry specifications as summarized herein.
- Where site conditions deviate from those noted herein, revisions may be required or a separate site-specific engineering evaluation performed.
- Aluminum components in contact with steel or embedded in concrete shall be protected as prescribed in the 2010 Aluminum Design Manual, Part 1. Steel components in contact with, but not encased in, concrete shall be coated, painted, or otherwise protected against corrosion.
- Engineer seal affixed hereto validates structural design as shown only. Use of this specification by contractor, et. Al, indemnifies and saves harmless this engineer for all costs & damages including legal fees & anellate fees resulting from deviation from this design

**Index:**

|      |                           |
|------|---------------------------|
| Pg 1 | Cover                     |
| Pg 2 | Wind Loads                |
| Pg 3 | Anchors at Top-Mnt Ltrs   |
| Pg 4 | Anchors at Flush-Mnt Ltrs |
| Pg 5 | Alum Angle Brackets       |

Engineer's signature and seal valid for pages 1 through 5



Christian Langley RE # 67382  
Easy Seals Cert Auth # 31124

## ASCE 7-10 Design Wind Loads WALL-MOUNTED SIGNS

**Building Specs**

V = 175 mph *Basic wind speed*  
Exposure D

ASD Load Combo Coeff: 0.6

**Calculations**

$\alpha = 11.5$  *3-sec gust speed power law exponent*  
 $z_g = 700'$  *Nominal ht. of atmos. boundary layer*  
Gcpi = 0 *Internal pressure coeff*

Kd = 0.85 *Directionality factor*

Kzt = 1.0 *Topographic factor*

A = 10 sq ft *Tributary area*

| 175 mph - Exp "D"<br>WALL-MOUNTED SIGNS |                    |                 |                 |                |         |         |
|---|--------------------|-----------------|-----------------|----------------|---------|---------|
| SIGN HEIGHT                             | ASD WIND PRESSURES |                 | K <sub>zt</sub> | q <sub>z</sub> | GCP (A) | GCP (B) |
|   | CENTER (Zone 4)    | CORNER (Zone 5) |                 |                |         |         |
| 15 ft                                   | 45.3 psf           | 57.7 psf        | 1.03            | 68.7           | -1.10   | -1.40   |
| 20 ft                                   | 47.6 psf           | 60.6 psf        | 1.08            | 72.2           | -1.10   | -1.40   |
| 25 ft                                   | 49.5 psf           | 63.0 psf        | 1.13            | 75.0           | -1.10   | -1.40   |
| 30 ft                                   | 51.1 psf           | 65.1 psf        | 1.16            | 77.5           | -1.10   | -1.40   |
| 35 ft                                   | 52.5 psf           | 66.8 psf        | 1.19            | 79.6           | -1.10   | -1.40   |
| 40 ft                                   | 53.7 psf           | 68.4 psf        | 1.22            | 81.4           | -1.10   | -1.40   |
| 45 ft                                   | 54.9 psf           | 69.8 psf        | 1.25            | 83.1           | -1.10   | -1.40   |
| 50 ft                                   | 55.9 psf           | 71.1 psf        | 1.27            | 84.6           | -1.10   | -1.40   |
| 55 ft                                   | 56.8 psf           | 72.3 psf        | 1.29            | 86.1           | -1.10   | -1.40   |
| 60 ft                                   | 57.7 psf           | 73.4 psf        | 1.31            | 87.4           | -1.10   | -1.40   |
| 70 ft                                   | 48.5 psf           | 96.9 psf        | 1.35            | 89.7           | -0.90   | -1.80   |
| 80 ft                                   | 49.6 psf           | 99.2 psf        | 1.38            | 91.9           | -0.90   | -1.80   |
| 90 ft                                   | 50.6 psf           | 101.3 psf       | 1.41            | 93.8           | -0.90   | -1.80   |
| 100 ft                                  | 51.6 psf           | 103.1 psf       | 1.43            | 95.5           | -0.90   | -1.80   |
| 110 ft                                  | 52.4 psf           | 104.9 psf       | 1.46            | 97.1           | -0.90   | -1.80   |
| 120 ft                                  | 53.2 psf           | 106.5 psf       | 1.48            | 98.6           | -0.90   | -1.80   |
| 130 ft                                  | 54.0 psf           | 107.9 psf       | 1.50            | 99.9           | -0.90   | -1.80   |
| 140 ft                                  | 54.7 psf           | 109.3 psf       | 1.52            | 101.2          | -0.90   | -1.80   |
| 150 ft                                  | 55.3 psf           | 110.7 psf       | 1.54            | 102.5          | -0.90   | -1.80   |
| 175 ft                                  | 56.8 psf           | 113.7 psf       | 1.58            | 105.3          | -0.90   | -1.80   |
| 200 ft                                  | 58.2 psf           | 116.3 psf       | 1.62            | 107.7          | -0.90   | -1.80   |
| 250 ft                                  | 60.5 psf           | 120.9 psf       | 1.68            | 112.0          | -0.90   | -1.80   |

## Wall Sign Anchor Design

### Structure Dimensions & Loading

#### Flush Channel Letters

Design wind pressure: **P = 99.2 psf**

Sign type: **Channel Letter**

Sign size: **A = 3.1 sqft (per letter, critical)**      50% Open

Wall material: **Varies**      #N/A

Anchor type/size: **1/4" Toggle Bolt (r)**

Ref: **Toggler SnapToggle to 1/2" drywall, catalog**

Min Embedment: **0.625"**

Min edge dist: **2"**      Min Spacing: **1.5"**

Anchor tensile capacity: **Tcap = 89.0 lb (per anchor)**

### Check Anchors for Pullout

Total Reaction: **Rt = 310 lb**      ... = P\*A (per letter)

No. of anchors req'd: **n = 3.5 anchors per letter**      ... = Rt/cap

**Total anchors required: 4 anchors per letter**

**OK, use min (4) anchors per letter, spaced evenly.**

## Wall Sign with Eccentric Loading

### Structure Dimensions & Loading

#### Top Mounted Letters

Design wind pressure: **P = 99.2 psf**

Sign type: **Letterset**

Sign size: **A = 3.7 sqft (entire cabinet)**      70% open, aggr

Eccentricity: **e = 16.0 inches (vert, lever point to load centerline)**

Anchor lever arm: **a = 7.0 inches (lever point to anchor centerline)**

Wall material: **Varies**      #N/A

Anchor type/size: **3/8" Toggle Bolt (r)**

Ref: **Toggler SnapToggle to 1/2" drywall, catalog**

Min Embedment: **0.625"**

Min edge dist: **3"**      Min Spacing: **1.5"**

Anchor tensile capacity: **Tcap = 144.0 lb (per anchor)**

### Check Anchors for Pullout

Total Reaction: **Rt = 847 lb**      ... = P\*A\*e/a (entire cabinet)

No. of anchors req'd: **n = 5.9 total anchors**      ... = Rt/cap

**Total anchors required: 6 total anchors balanced over cabinet**

**OK, use (6) pairs = (12) anchors total.**

# ALUMINUM DESIGN MANUAL (2005 EDITION)

## Specifications for Aluminum Structures (Buildings)

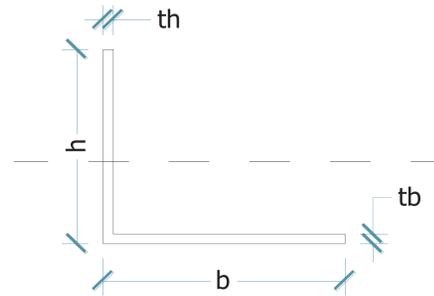
### Design Check of 1.5"x1.5"x0.188"/0.188" 6063-T6 Aluminum Angle

Angle Bracket

Alloy: 6063    Temper: T6    Welded: N

**SECTION PROPERTIES**

|                      |                        |   |
|----------------------|------------------------|---|
| <i>b</i>             | 1.500"                 | Flange width  |
| <i>tb</i>            | 0.188"                 | Flange thickness  |
| <i>h</i>             | 1.500"                 | Web height  |
| <i>th</i>            | 0.188"                 | Web thickness   |
| <i>I<sub>x</sub></i> | 0.11 in <sup>4</sup>   | Moment of Inertia about axis parallel to flange             |
| <i>I<sub>y</sub></i> | 0.11 in <sup>4</sup>   | Moment of Inertia about axis parallel to web                |
| <i>S<sub>c</sub></i> | 0.10 in <sup>3</sup>   | Section modulus, compression side (about X-axis)            |
| <i>r<sub>x</sub></i> | 0.46 in                | Radius of gyration about centroidal axis parallel to flange |
| <i>r<sub>y</sub></i> | 0.46 in                | Radius of gyration about centroidal axis parallel to web    |
| <i>J</i>             | 0.0062 in <sup>4</sup> | Torsion constant  |
| <i>A</i>             | 0.53 in <sup>2</sup>   | Cross sectional area of member                              |



**MATERIAL PROPERTIES**

|                       |            |                                   |
|-----------------------|------------|-----------------------------------|
| <i>F<sub>tu</sub></i> | 30 ksi     | Tensile ultimate strength         |
| <i>F<sub>ty</sub></i> | 25 ksi     | Tensile yield strength            |
| <i>F<sub>cy</sub></i> | 25 ksi     | Compressive yield strength        |
| <i>F<sub>su</sub></i> | 19 ksi     | Shear ultimate strength           |
| <i>E</i>              | 10,100 ksi | Compressive Modulus of Elasticity |

**ALLOWABLE STRESSES**

**F<sub>b</sub> = 8.64 ksi    Allowable bending stress**  
**F<sub>ac</sub> = 4.63 ksi    Allowable axial stress, compression**

**MEMBER LOADING**

|                       |              |  |        |
|-----------------------|--------------|--|--------|
| Design wind pressure: | P = 99.2 psf | End Supports:                                  | Simple |
| Trib Area:            | A = 1.2 ft   | ... trib area for each member (e.g. sign+post) |        |
| Member Span:          | L1 = 2.0 ft  | ... dist to area centroid (weighted avg h1,h2) |        |

Bending Moments

|                      |             |                                    |   |
|----------------------|-------------|------------------------------------|---|
| <i>M<sub>z</sub></i> | 0.06 kip-ft | Bending moment developed in member | <i>M<sub>a</sub></i> = 0.075 kip-ft                   |
| <i>f<sub>b</sub></i> | 7.10 ksi    | Bending stress developed in member |   |
| <i>F<sub>b</sub></i> | 8.64 ksi    | Allowable bending stress of member | <i>f<sub>b</sub></i> < <i>F<sub>b</sub></i> <b>OK</b> |



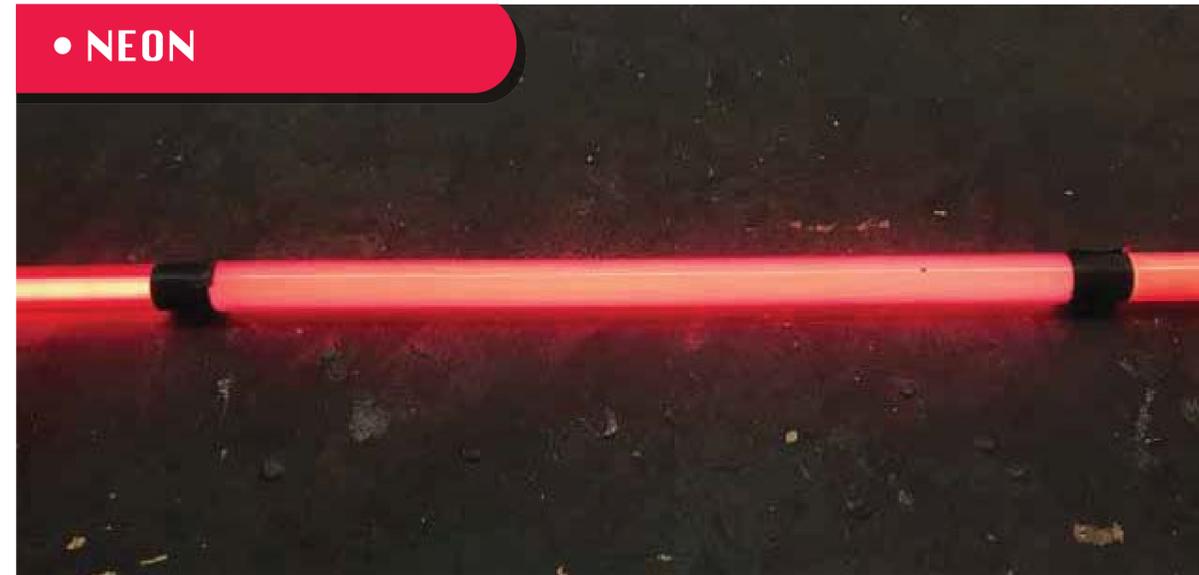
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• NEON



• NEON



• DAY / NIGHT VINYL



• ALUMINUM



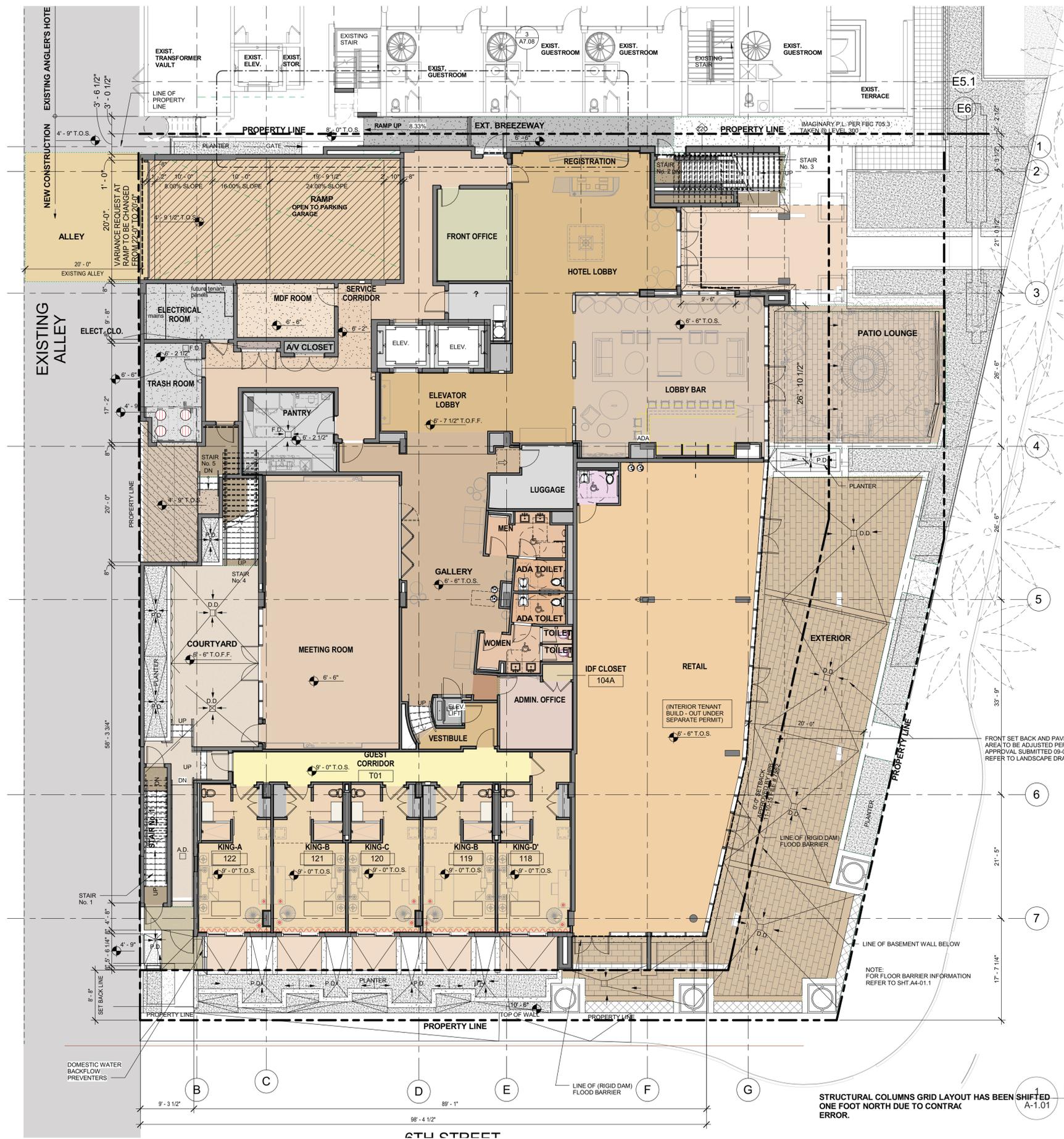
**Room Legend**

- B.O.H. COMMON AREA
- BALCONY
- BATH
- COURTYARD
- ELECTRICAL ROOM
- EXTERIOR WALKWAY
- GUEST CORRIDOR
- GUESTROOM
- HSKP OFFICE
- LOADING AREA
- LOCKERS
- NOT USED
- PARKING GARAGE
- RAMP
- SERVICE CORRIDOR
- STAIR No.1
- STAIR No.5
- UPPER COURTYARD
- W/D & GLASS WASHER



**Section 2**  
A-13.1 1/8" = 1'-0"





WASHINGTON AVENUE

LEVEL 100  
 1/8" = 1'-0"  
 A-1.01  
 STRUCTURAL COLUMNS GRID LAYOUT HAS BEEN SHIFTED ONE FOOT NORTH DUE TO CONTRA ERROR.