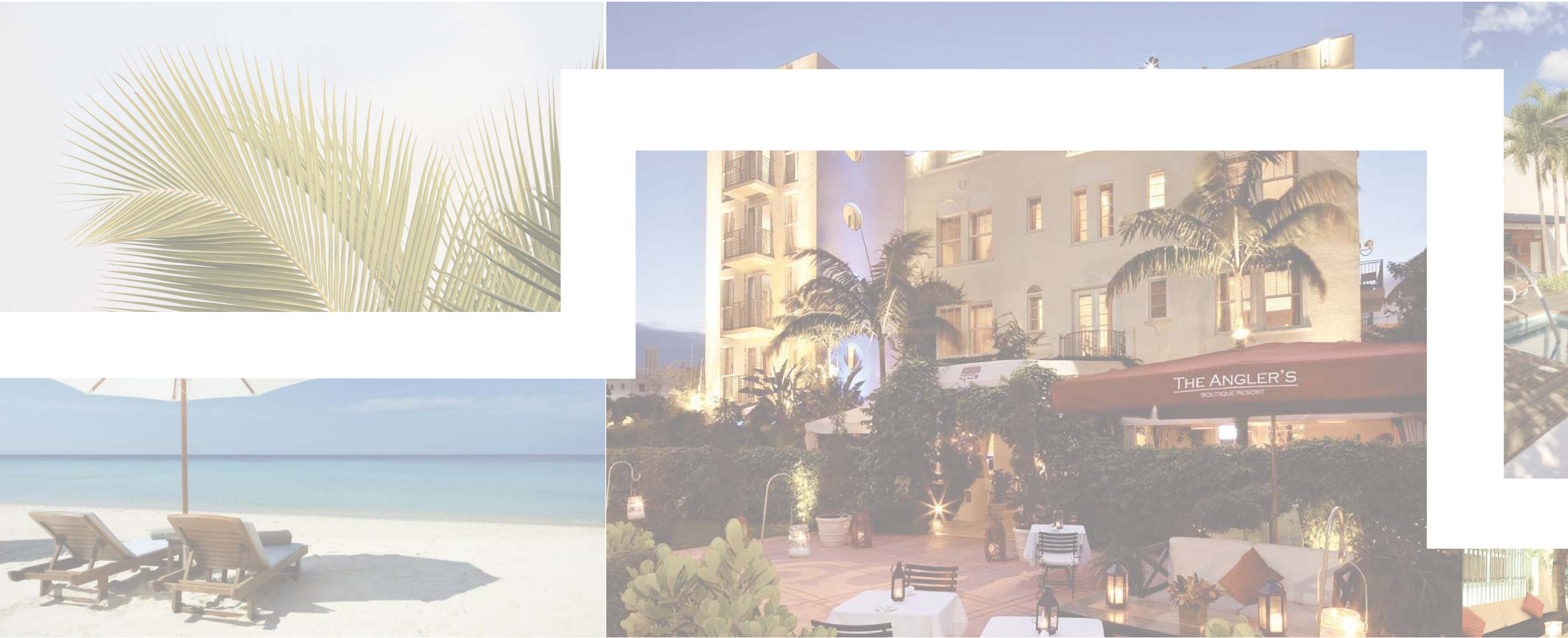


FINAL SUBMITTAL - VARIANCES FOR SIGNAGE AND DRIVE ISLE

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

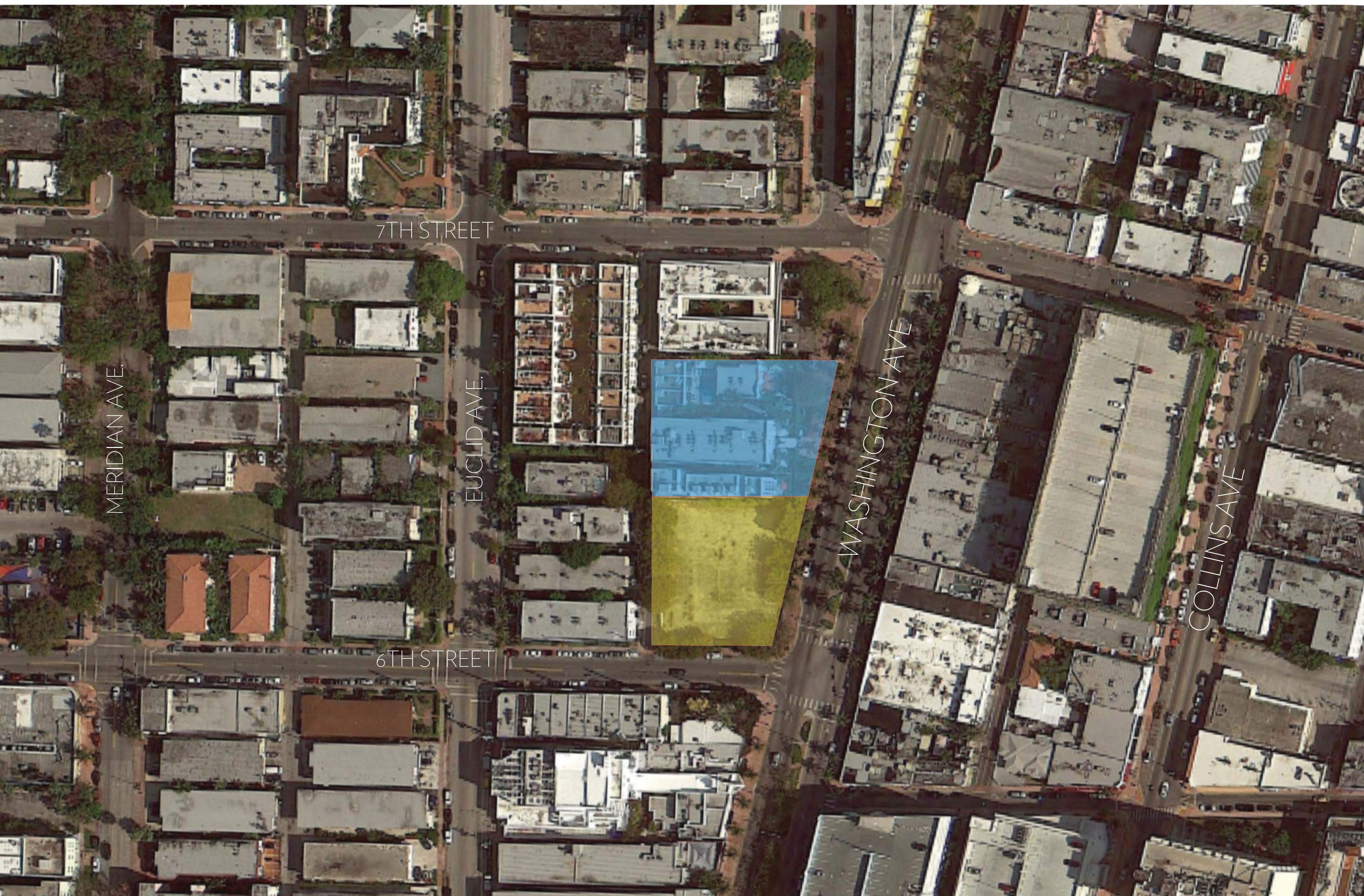
915 OUTER ROAD, SUITE 200
ORLANDO, FLORIDA 32814
(407) 237-0669 FAX: (407) 237-0973

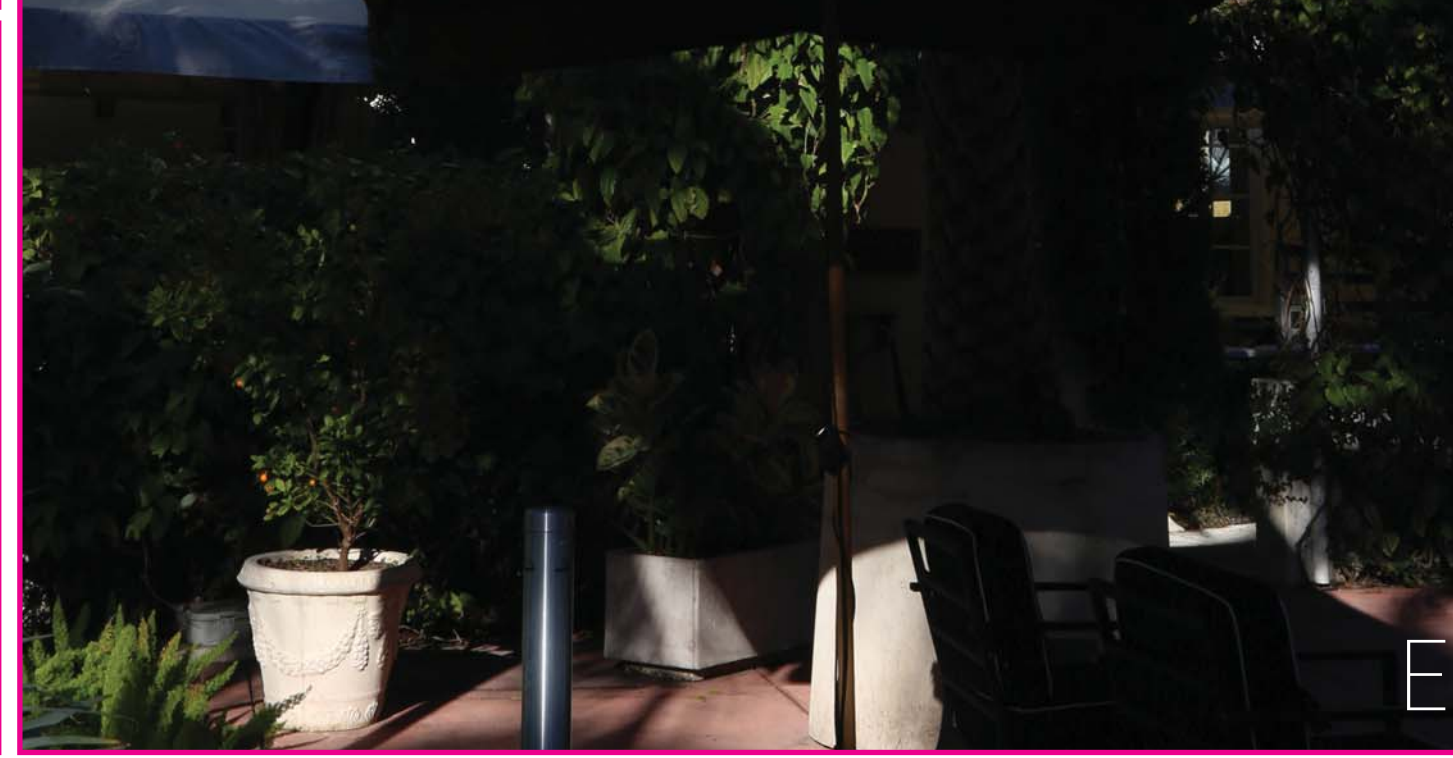
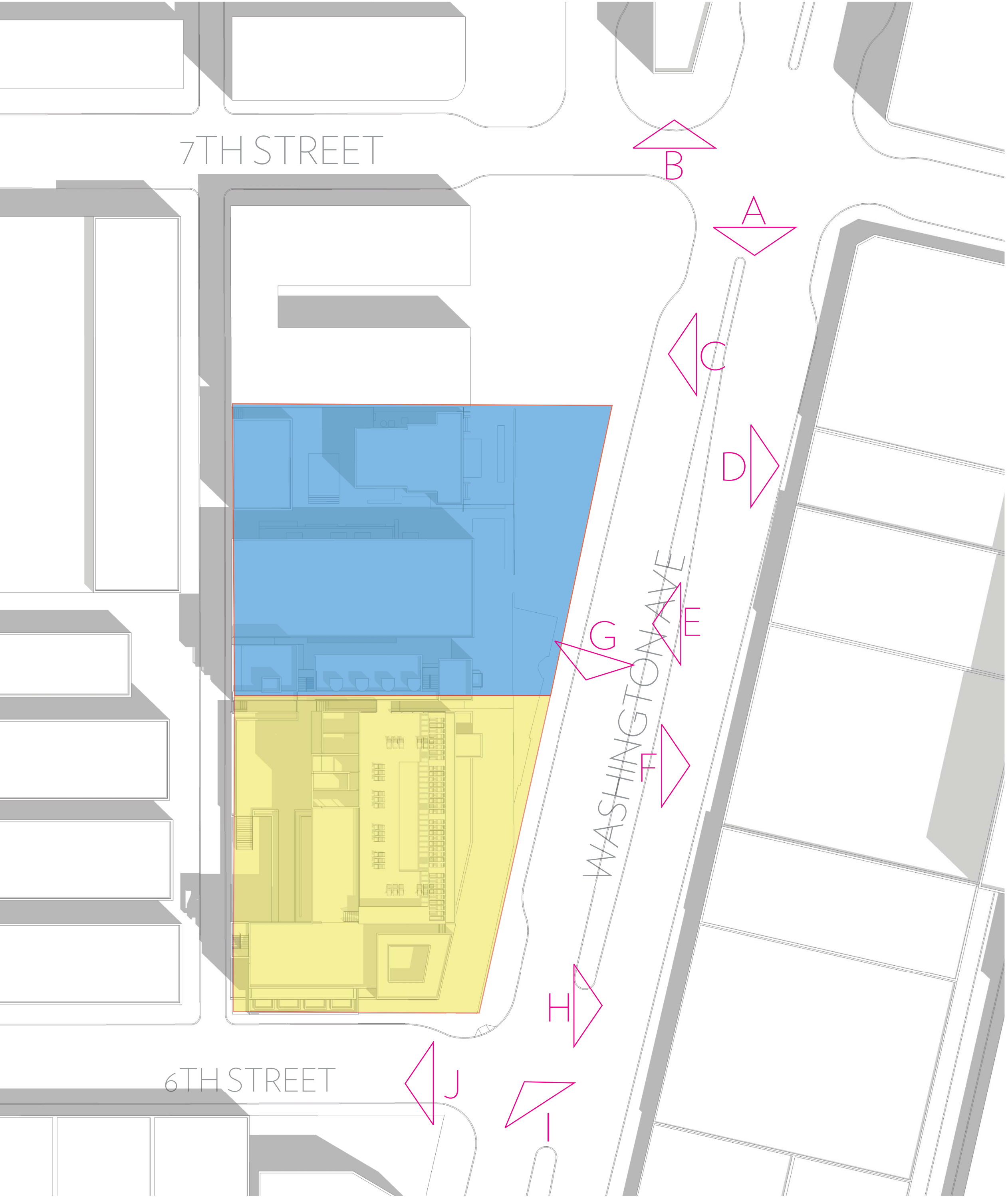
INTERIOR DESIGNER

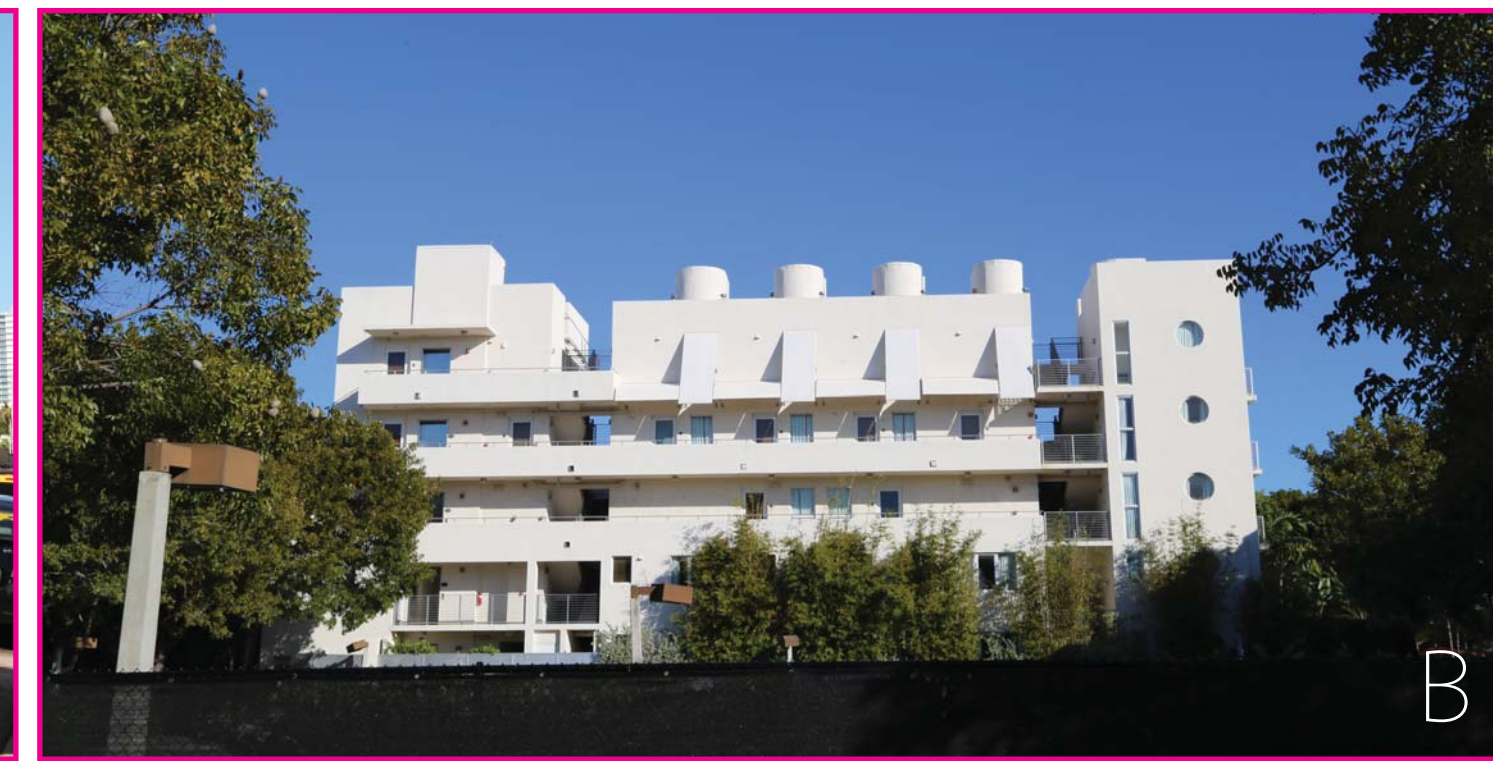
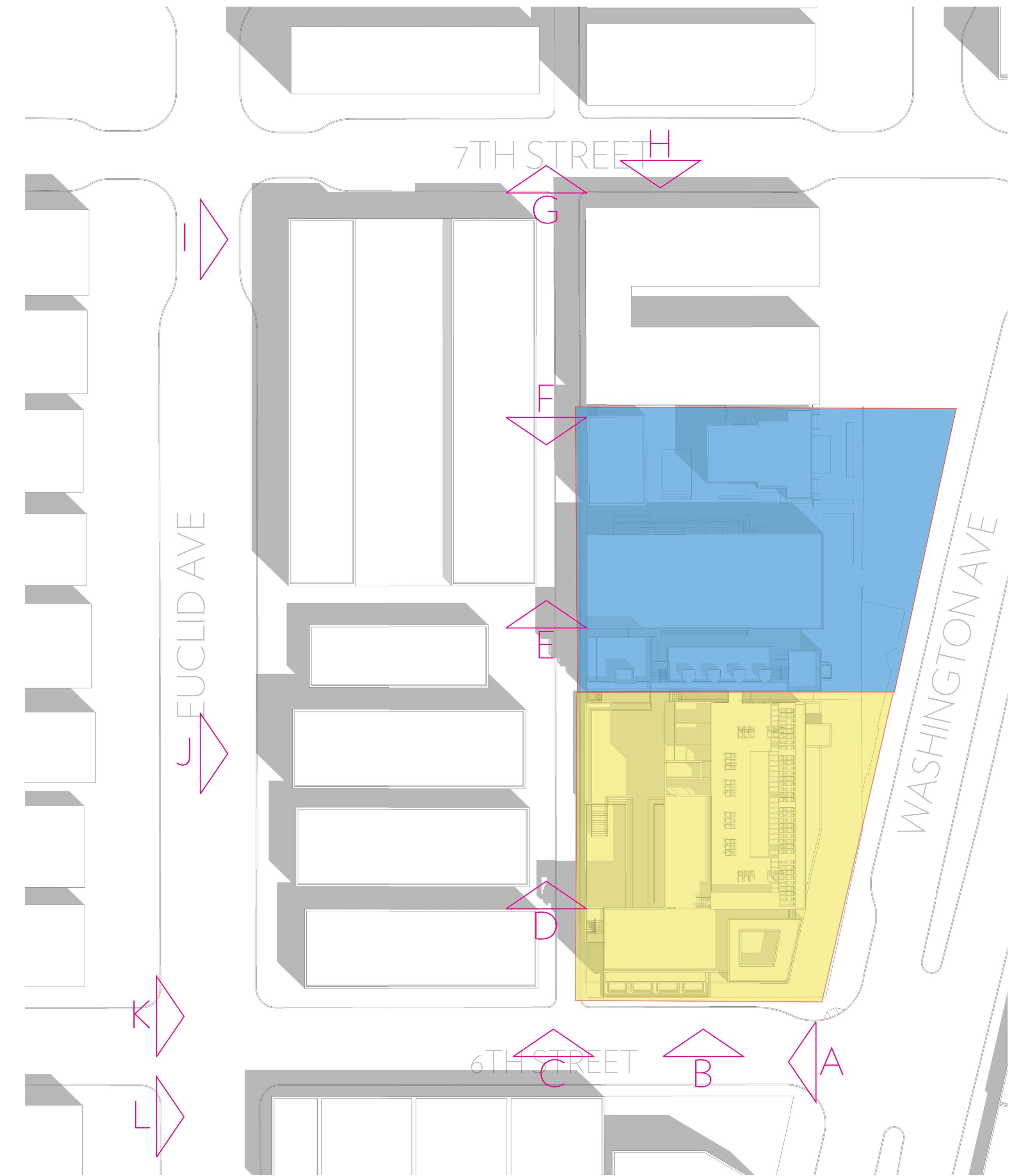
NICOLE HOLLIS

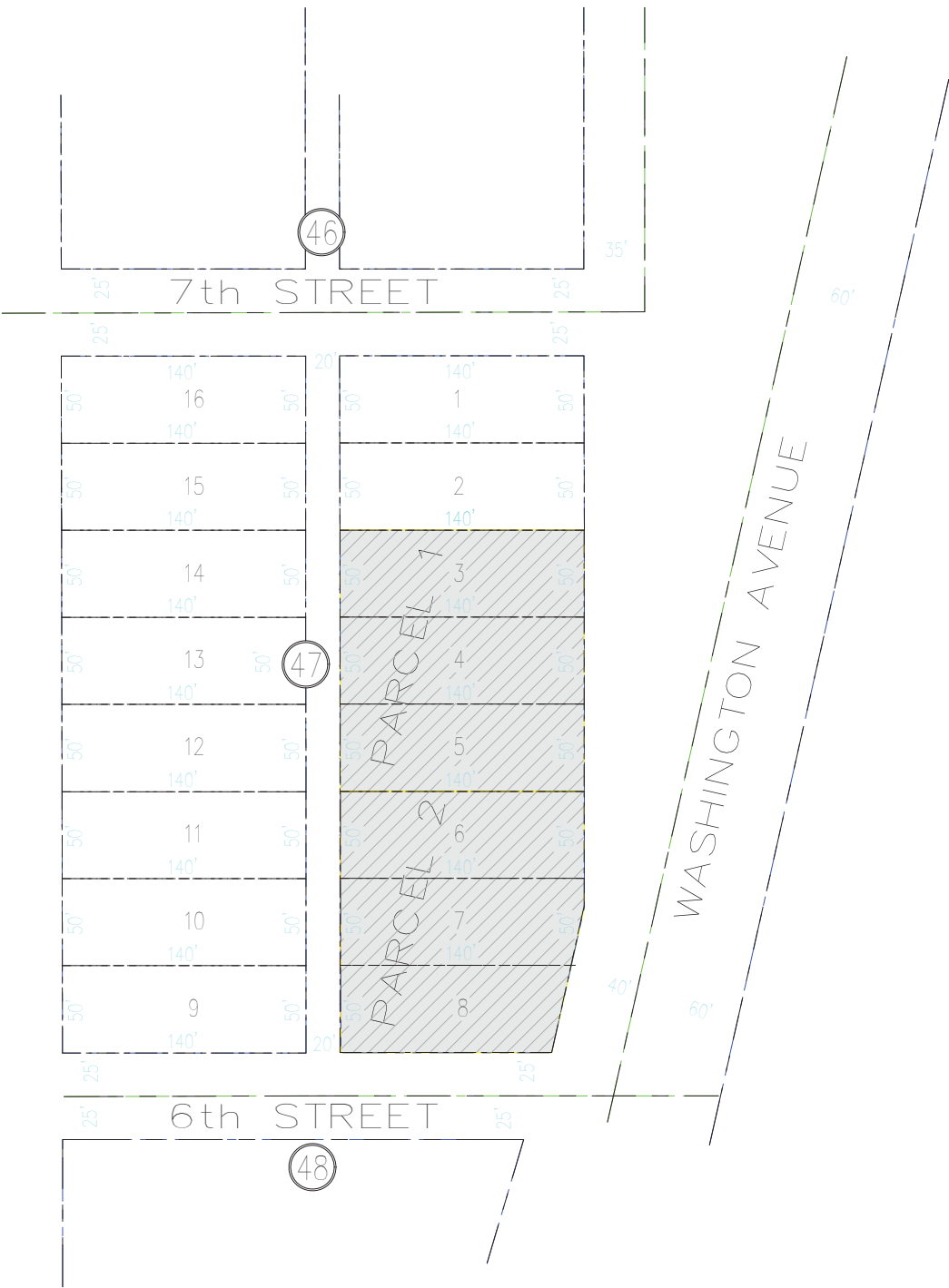
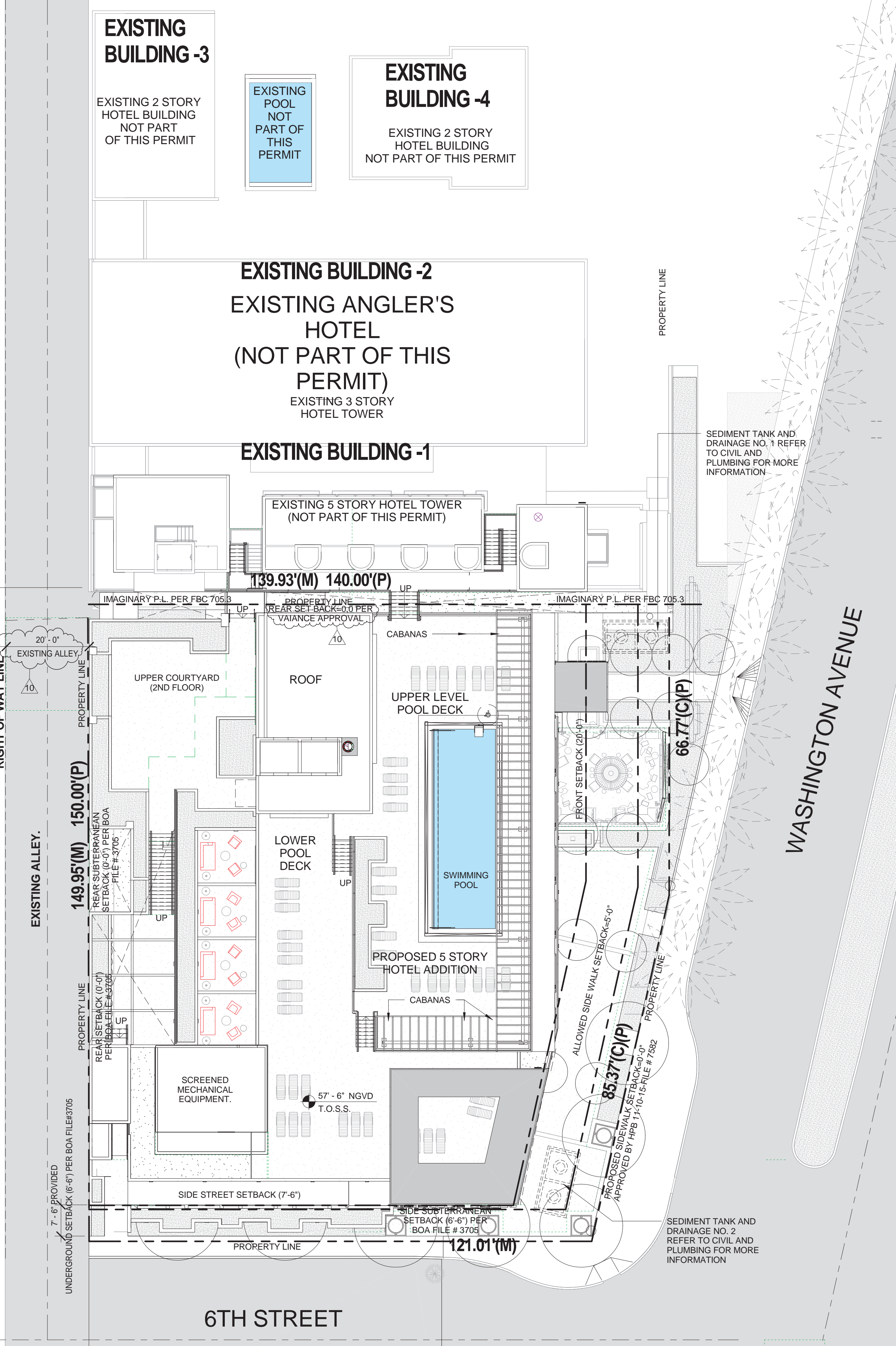
222 KEARNY STREET, SUITE 200
SAN FRANCISCO, CALIFORNIA 94108
(415) 733-9621











2 SITE LOCATION MAP
A-0.1 1" = 100'-0"

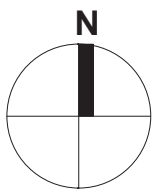
SCOPE:

SCOPE OF ARCHITECTURAL PORTION OF PERMIT AS FOLLOWS:

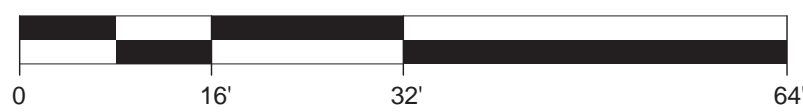
1. REINTRODUCTION OF HISTORIC SIGN

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
TOTAL NUMBER OF UNITS = 85	



1 SITE PLAN
A-0.1 1/16" = 1'-0"



ZONING ANALYSIS

ZONING DISTRICT

RM-2

LEGAL DESCRIPTION

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.

LOT AREA

SF	ACRES
20,192.73	0.4635

EXISTING BUILDING FLOOR AREA

ALLOWED AREA = 42,000	PROVIDED AREA = 32,312
-----------------------	------------------------

AVAILABLE FROM EXISTING SITE PER SHEET A0.03.1 42,000 - 32,312= 9,688

FLOOR AREA

SEC.142-216	ALLOWED	PROVIDED
"RM-2" ZONE: 2.0	40,385.46	
AVAILABLE FROM EXISTING SITE: PER SHEET A0.03.1	9,688.00	49,933
TOTAL MAXIMUM ALLOWED:	50,073.00	

HEIGHT

SEC.142-217	ALLOWED	PROVIDED
	5 STORY/ 50 FT	53'-0"

(VARIANCE APPROVED BY BOARD OF ADJUSTMENT 11-10-2015 FILE # 7582)

SETBACKS

SEC.142-218	REQUIRED.	PROVIDED
-------------	-----------	----------

FRONT	20'	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) 8% OF LOT WIDTH = 24'-0"	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) 5% OF LOT WIDTH = 15'-0"	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"
--------------------	---------------------------	-------

PARKING

REQUIRED	PROVIDED
----------	----------

HOTEL USE	42.5	43
-----------	------	----

For Hotels less than 100 Units, 1/2 Space per Unit.* (Per City of Miami Beach Ordinance # 130-339(4))

RETAIL	4.6	5
--------	-----	---

1 Space per 400SF, minus 7.5 SF per Unit.= (2,465, SF) - (85 units x 7.5SF)=2,465 - 637.5 / 400 =

MEETING ROOM	0	0
--------------	---	---

FOR REGISTERED HOTEL GUEST USE ONLY

BAR	6.4	6
-----	-----	---

1 Space Per 4 Seats , minus 1 seat for every 2 Units.

Total number of Seats = 68		
----------------------------	--	--

Total number of Rooms=85		
--------------------------	--	--

85 / 2 = 42.5		
---------------	--	--

Total parking req.=(68-42.5) / 4 = 6.38		
---	--	--

TOTAL	53.5 (54)	54
-------	-----------	----

100% VALET PARKING

TANDEM SPACE ALLOWED		
----------------------	--	--

TRIPLE SPACE		
--------------	--	--

(VARIANCE APPROVED AT BOARD OF ADJUSTMENT HEARING ON 12/05/2014)



NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.



the

ANGLER'S

hotel

SIGNS

8.21.2017







 WASHINGTON AVE
NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

 Stantec

 Ohm lighting

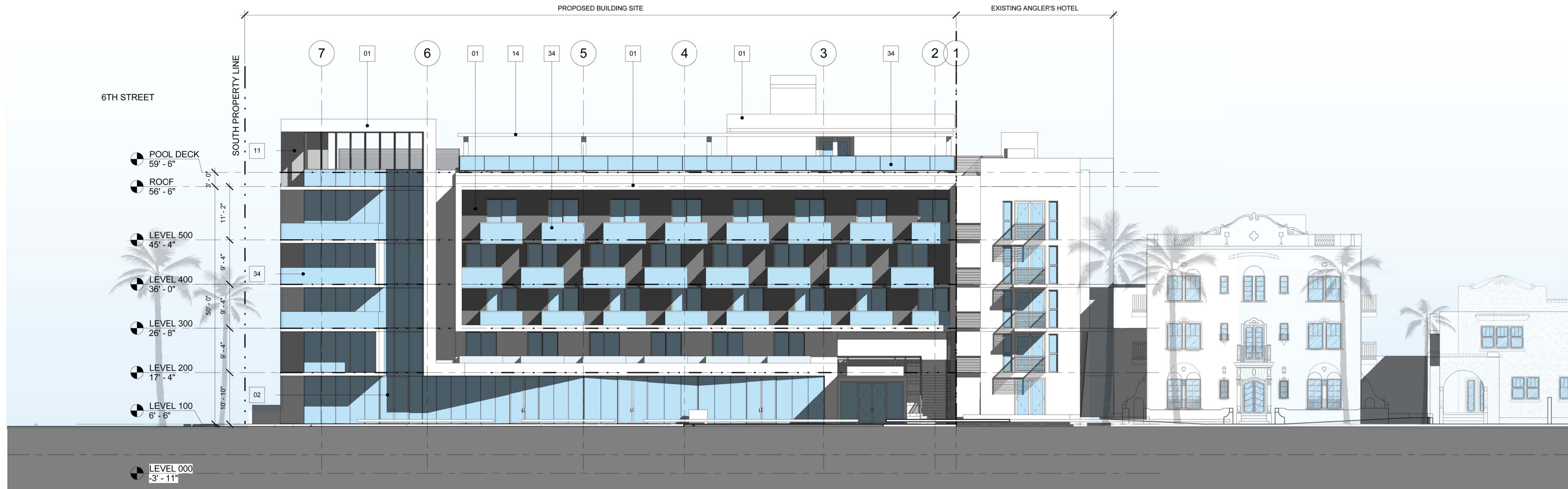
the ANGLER'S hotel
SIGNS 8.21.2017



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



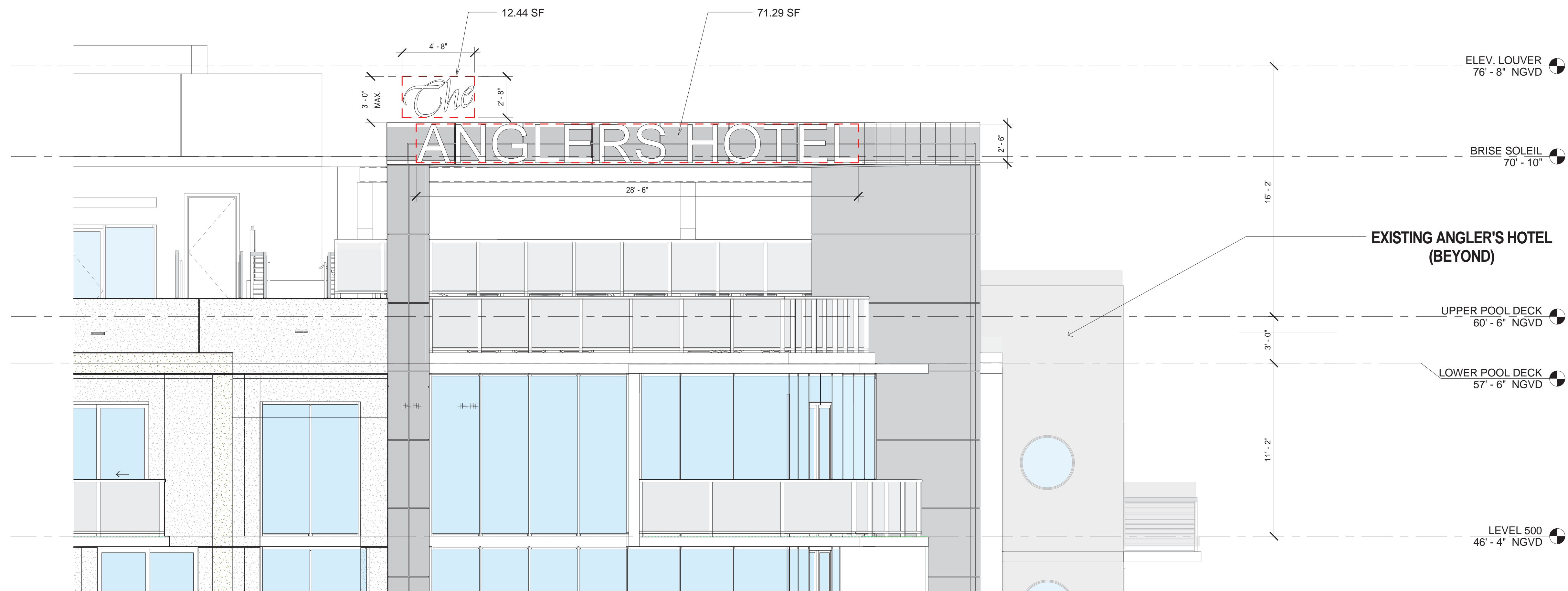
2
A-2.0
OVERALL SOUTH ELEVATION
1/16" = 1'-0"



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

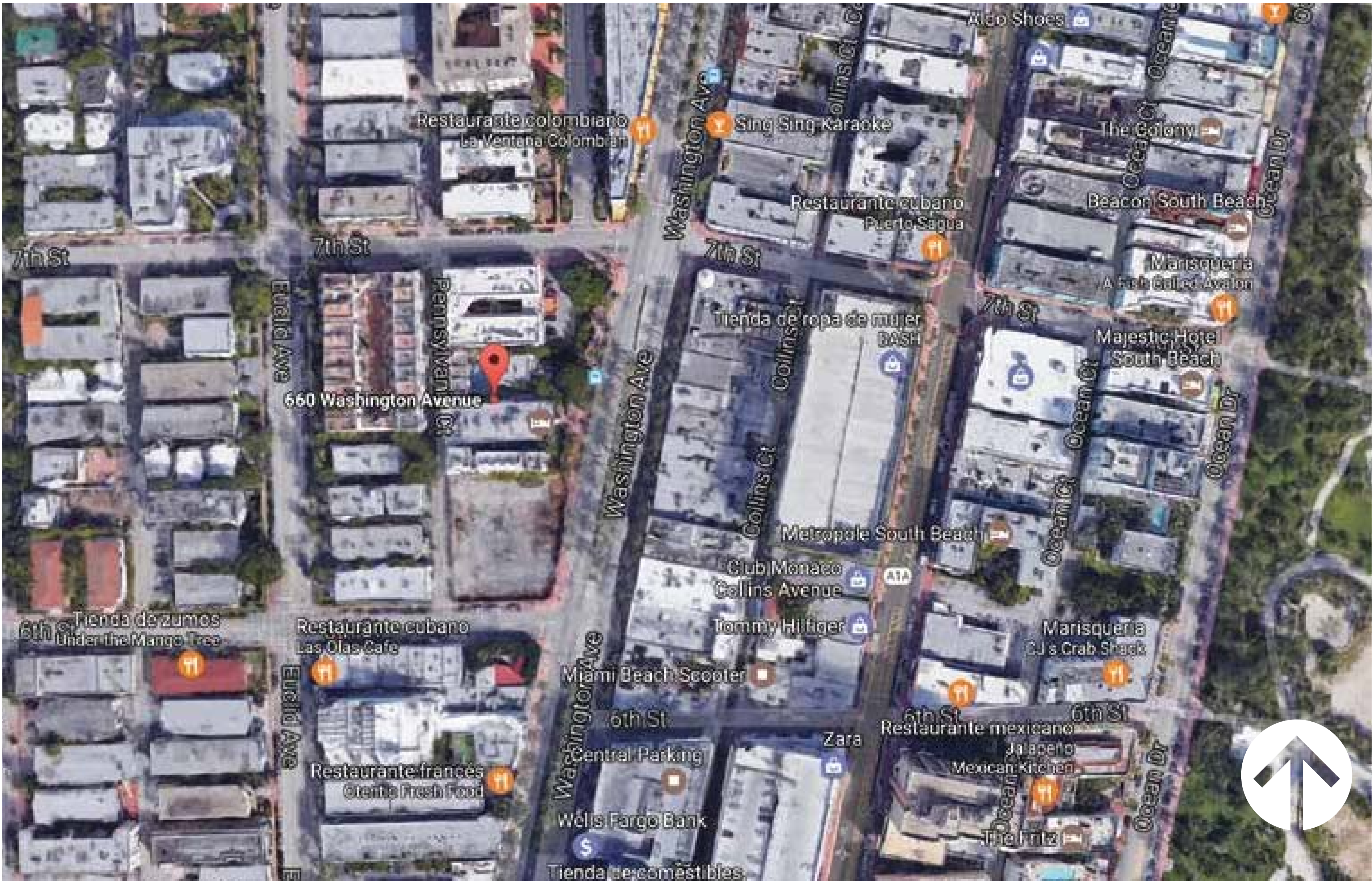
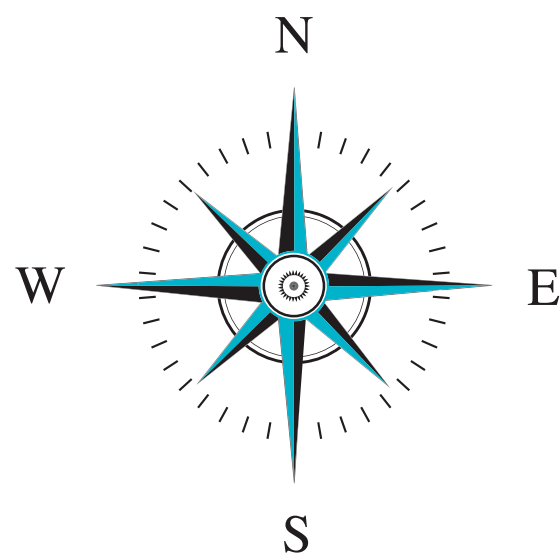


BUILDING FACADE ON 6TH STREET = 98'-4"
 ALLOWED SIGNAGE AREA = 98'-4" X .75 = 73.72 SF
 PROPOSED SIGN AREA = 83.73 SF
 * REINTRODUCTION OF HISTORIC SIGN

1
 A-0.4 SIGNAGE DIMENSIONS
 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:
N.T.S.

Date:
8/14/2017

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No.

Sheet:
1 of 6

CLIENT APPROVAL

☐ APPROVED AS SHOWN

☐ APPROVED WITH CHANGES

☐ DISAPPROVED

DATE: / /2017

BY: (PLEASE PRINT NAME)

SIGNATURE

General Notes: ❶ 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). ❷ This engineering certifies only the structural integrity of those systems, components, and/or other construction explicitly specified herein. ❸ 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. ❹ Aluminum extrusions shall be 6063-T6 or stronger, unless noted otherwise.

CHRISTIAN LANGLEY
LICENSE

Christian Langley
Florida PE #67382
Cert of Auth #31124

1200 N Federal Hwy, #200
Boca Raton, FL 33432
1-888-371-3113

Wall components & cladding:
• Zone 4: ± 49.6 psf • Zone 5: ± 99.2 psf

• Sign Height = 80 ft max
• Kzt=1.0, Kd=0.85, G=0.85

• Risk Category 2 Struct.
• ASD Load Coeff = 0.6

ASCE 7-10 • V=175 mph
WIND LOADS: • Exposure 'D'

The Anglers Hotel

Front View



www.acusigns.com

Date:
8/14/2017

MEMBER OF
 INTERNATIONAL SIGN ASSOCIATION

LISTED
 MET LABS

MEMBER OF
 FLORIDA SIGN ASSOCIATION

No.	Sheet: 2 of 6
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CLIENT APPROVAL

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☐ DISAPPROVED

DATE: / /2017

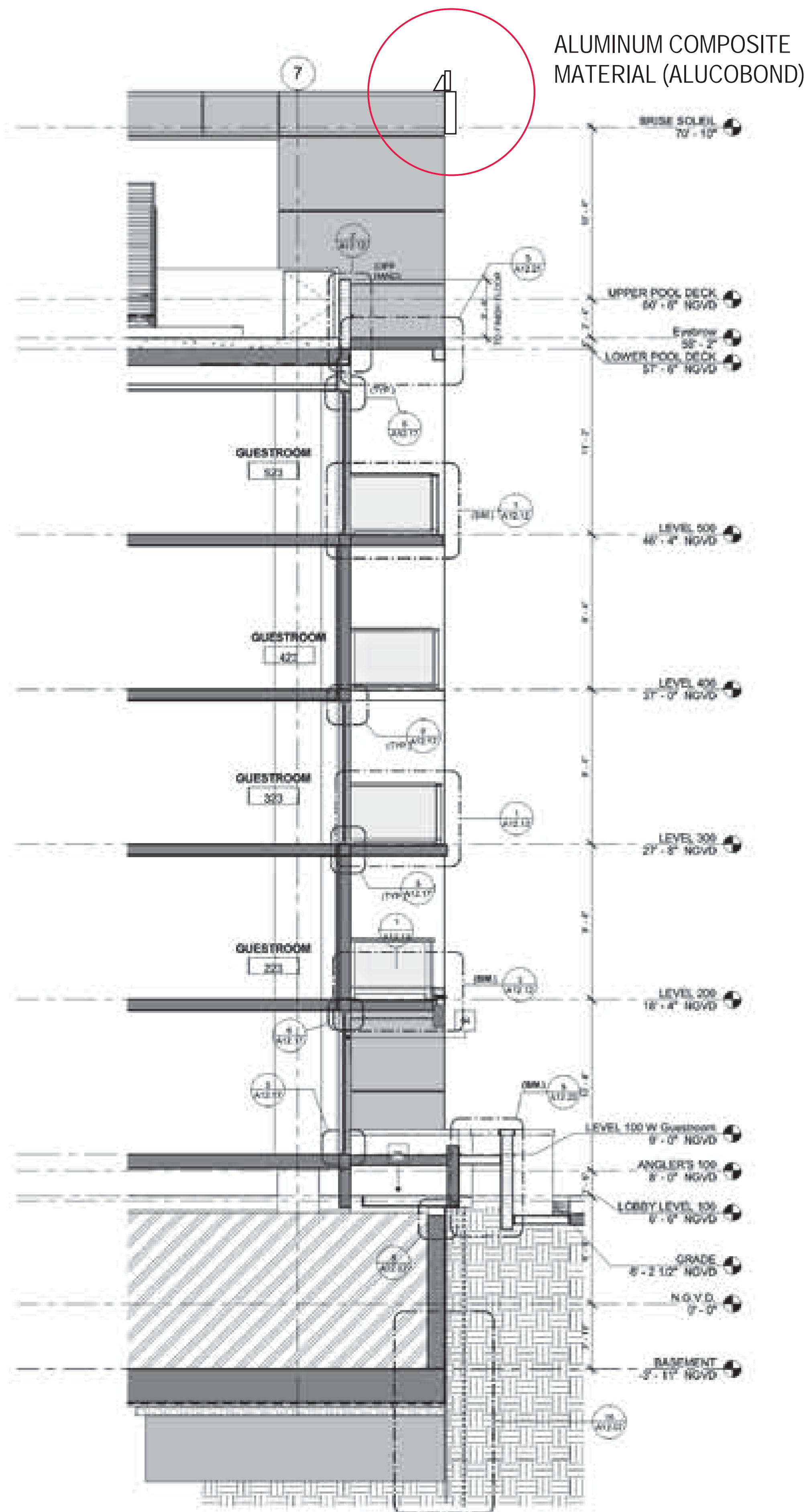
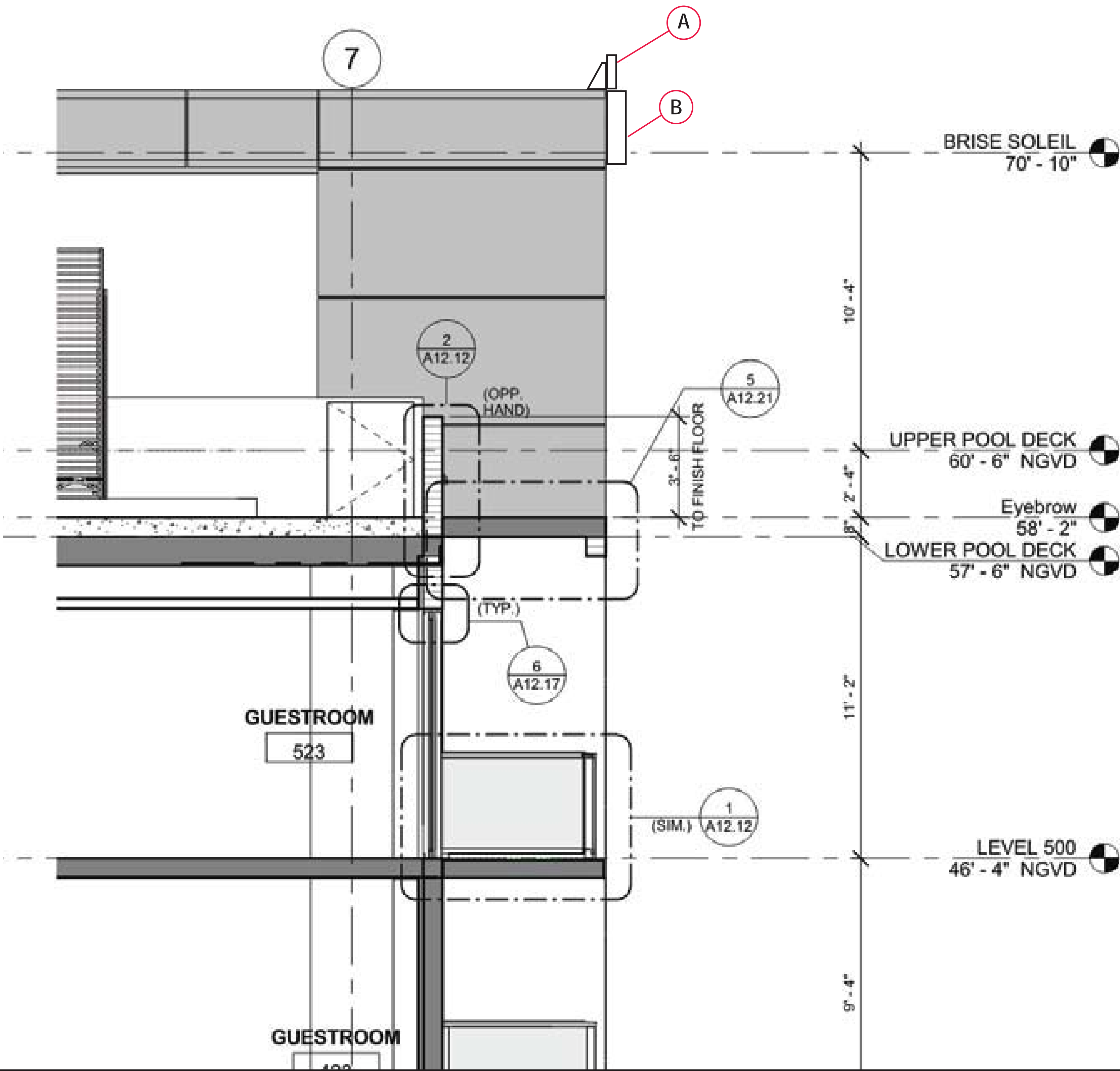
BY: (PLEASE PRINT NAME)

SIGNATURE

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PERMIT DRAWING

The Anglers Hotel
Building Side 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:
N.T.S.

Date:
8/14/2017

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No. Sheet:
3 of 6

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CHRISTIAN LANGLEY
LICENSE
No. 67382
ACU Signs
SINCE 1939
Christian Langley
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.
• V=175 mph
• 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

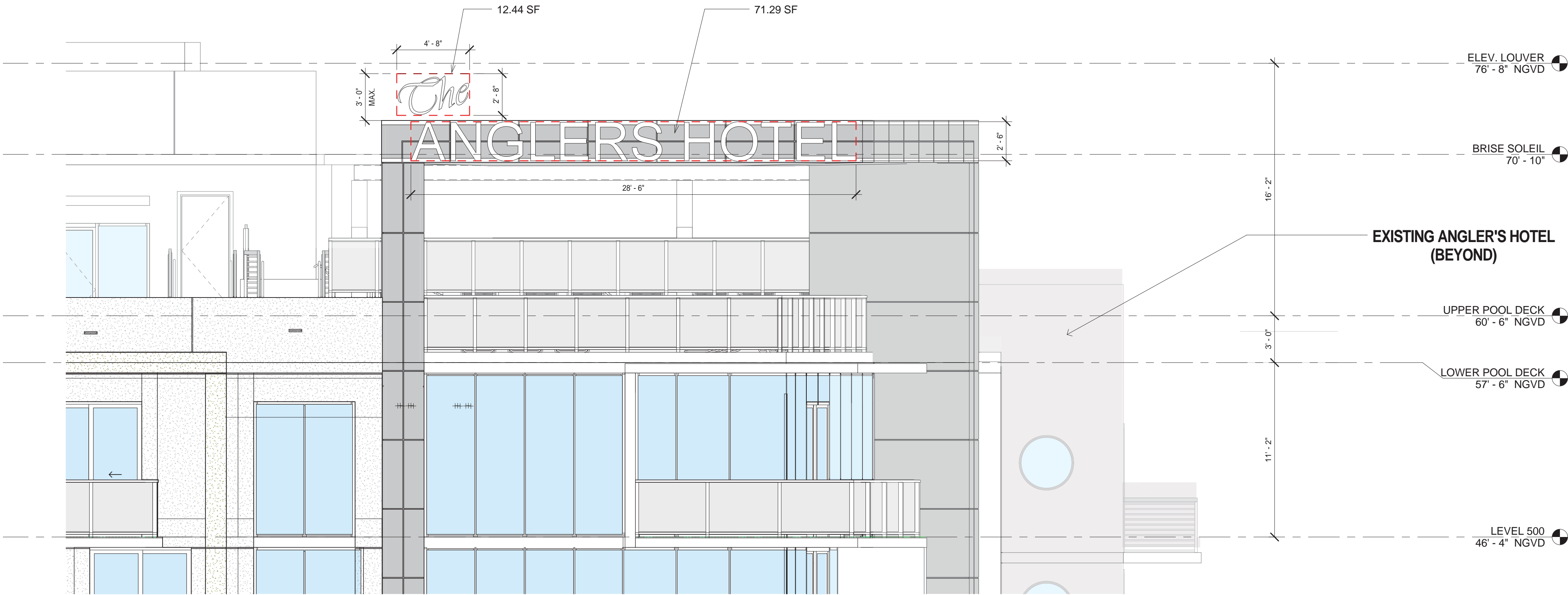
CITY MAX. ALLOWED SQ FT:
PROPOSED SQ FT: 83.73

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



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

www.acusigns.com

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THE ANGLERS HOTEL

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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: 4 of 6
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Christian Langley
1200 N Federal Hwy, #200
Boca Raton, FL 33432
1-888-371-3113

Florida PE #67382
Cert of Auth #31124

Wall components & cladding:
• Sign Height = 80 ft max
• 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

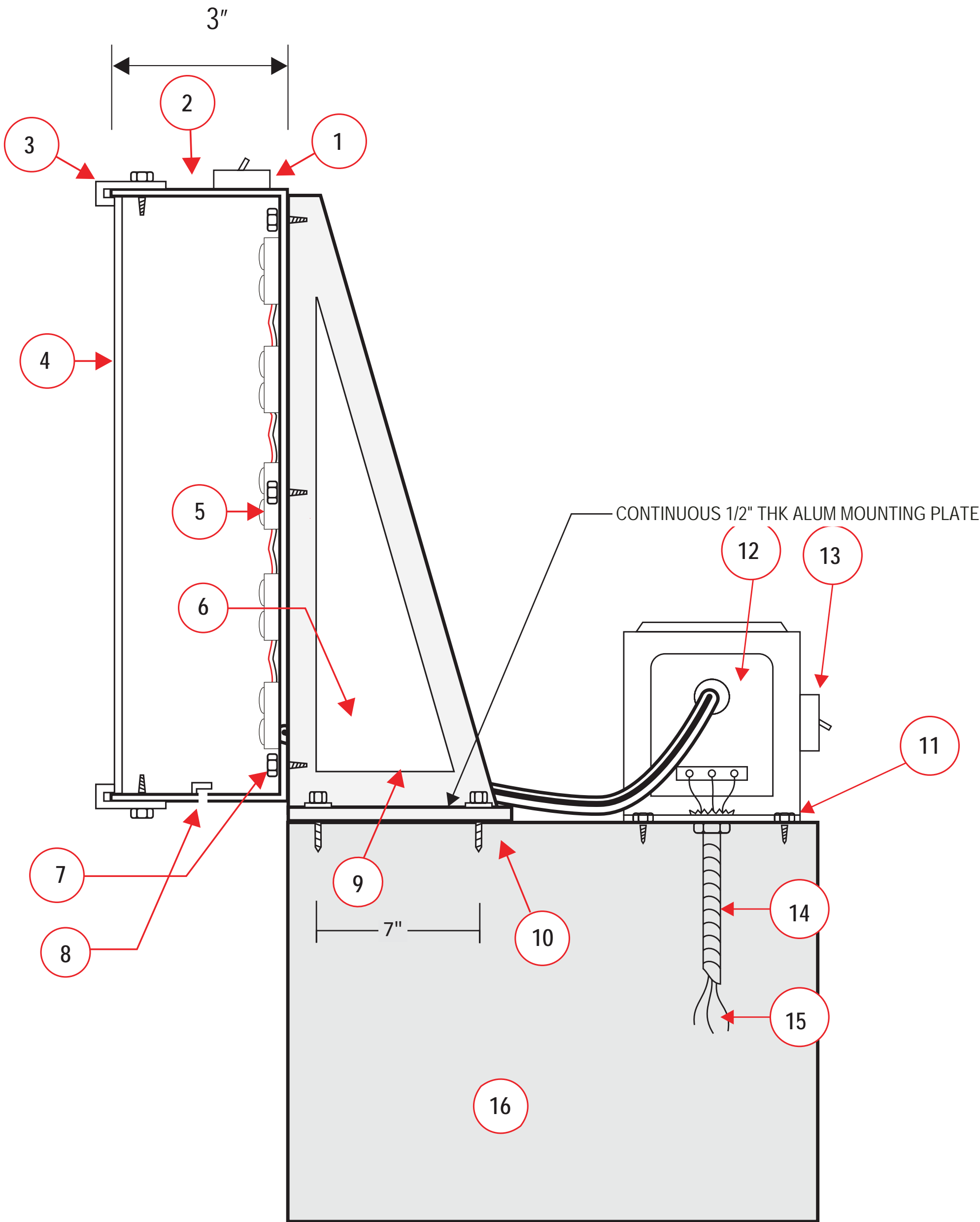
ELECTRICAL INFORMATION
2- C2240 POWER SUPPLY @ 2.8 AMPS EACH

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

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

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

www.acusigns.com

Project:
THE ANGLERS HOTEL

Address:
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Scale:
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No. Sheet:
5 of 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

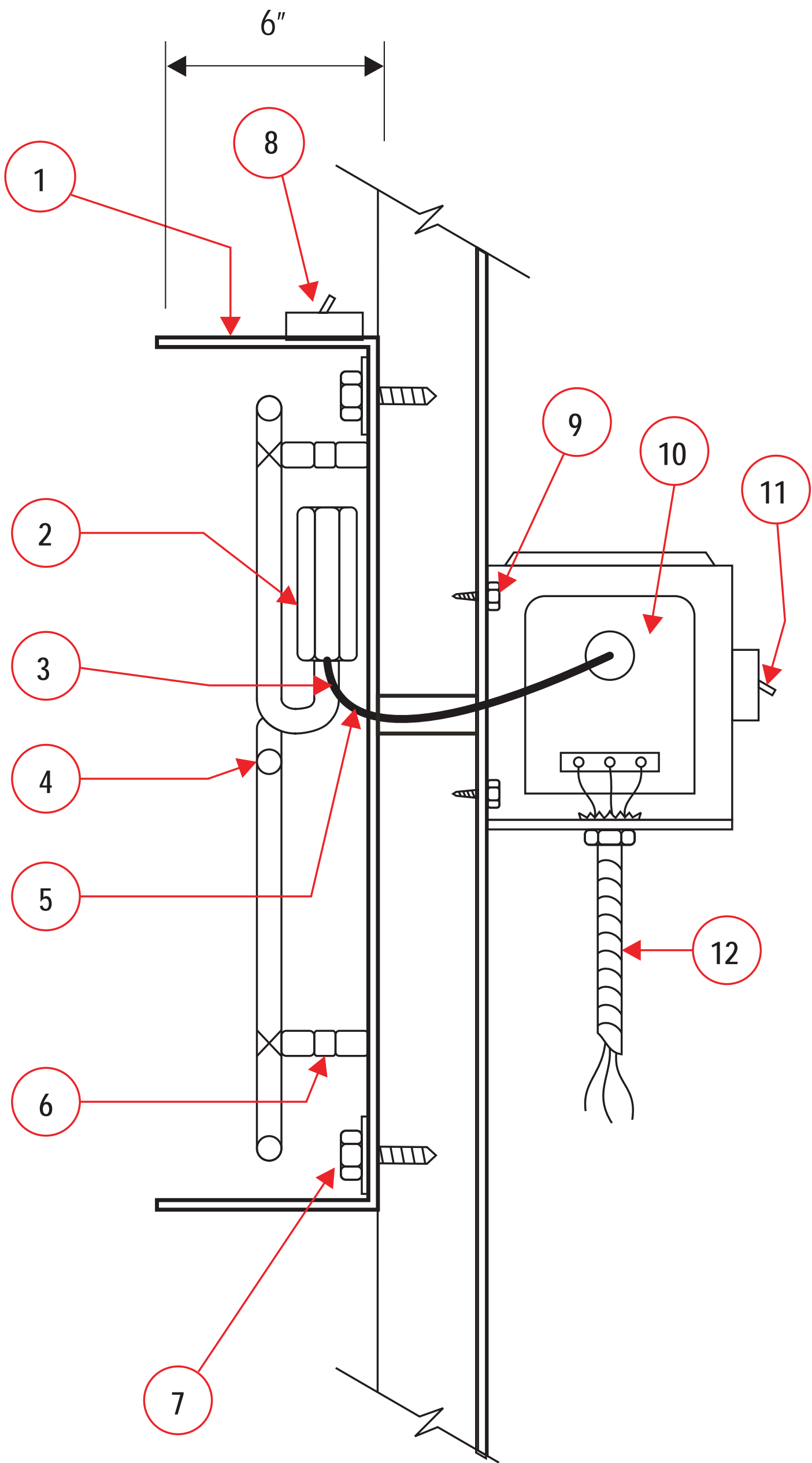
ELECTRICAL INFORMATION
2- TRANSFORMERS @ 2.8 AMPS EACH

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

"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 ans 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

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

This is an original drawing property of ACU SIGNS, and may not be used in whole or in part without written permission. It is not to be shown to anyone outside of your organization, reproduced, copied or exhibited in any fashion. Drawing shall be returned promptly upon or before completion of negotiations or customer agrees to accept a charge levied by the corporation for retention of same. this statement shall become a part of the drawing to which it is attached. Note: The colors depicted here are a graphic representation. Actual colors may vary. See color specifications.



No.

Sheet:
6 of 6

DESIGN CALCULATIONS

FOR

THE ANGLER'S HOTEL
WALL-MOUNTED SIGNS
660 Washington Ave – Miami Beach

GENERAL NOTES:

1.

Design is in accordance with the Florida Building Code 5th Edition (2014) for use within and outside the High Velocity Hurricane Zone (HVHZ).
2.

Wind loads have been calculated per the requirements of ASCE 7-10 as shown herein.
3.

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.
4.

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.
5.

Where site conditions deviate from those noted herein, revisions may be required or a separate site-specific engineering evaluation performed.
6.

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.
7.

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

PE # 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

α = 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" WALL-MOUNTED SIGNS						
SIGN HEIGHT	ASD WIND PRESSURES CENTER (Zone 4)	CORNER (Zone 5)	$K_h = K_z$	q_z	$GCP (4)$	$GCP (5)$
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)

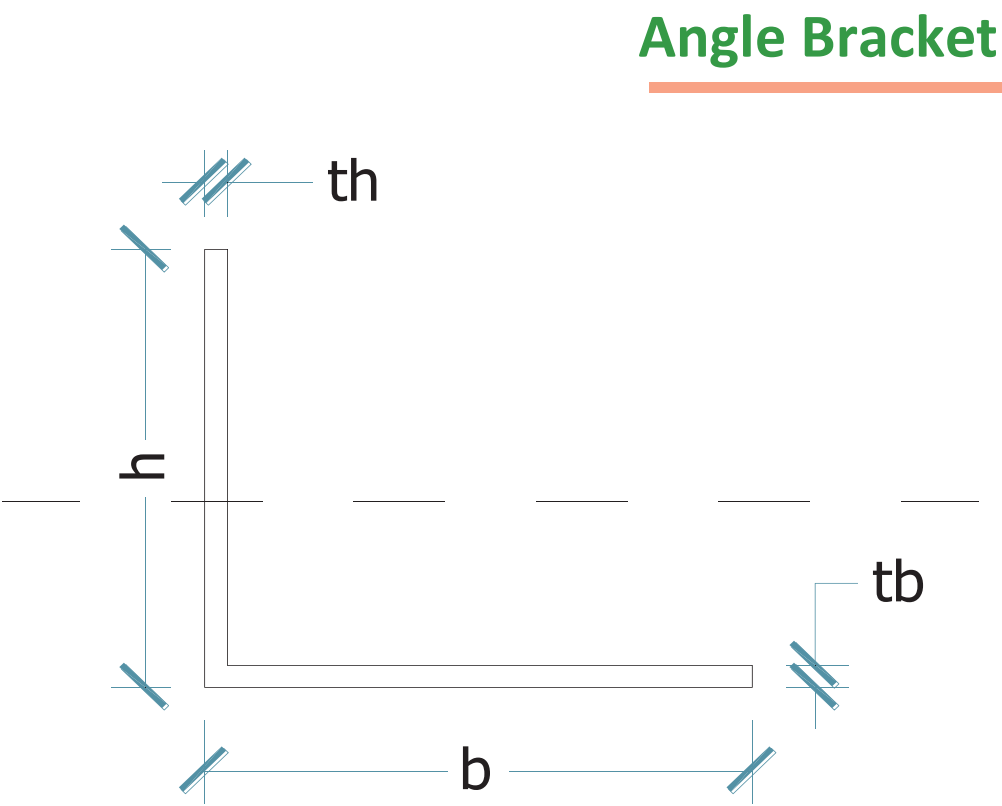
Specifications for Aluminum Structures (Buildings)

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

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>Ix</i>	0.11 in^4	Moment of Inertia about axis parallel to flange
<i>Iy</i>	0.11 in^4	Moment of Inertia about axis parallel to web
<i>Sc</i>	0.10 in^3	Section modulus, compression side (about X-axis)
<i>rx</i>	0.46 in	Radius of gyration about centroidal axis parallel to flange
<i>ry</i>	0.46 in	Radius of gyration about centroidal axis parallel to web
<i>J</i>	0.0062 in^4	Torsion constant
<i>A</i>	0.53 in^2	Cross sectional area of member



MATERIAL PROPERTIES

<i>Ftu</i>	30 ksi	Tensile ultimate strength
<i>Fty</i>	25 ksi	Tensile yield strength
<i>Fcy</i>	25 ksi	Compressive yield strength
<i>Fsu</i>	19 ksi	Shear ultimate strength
<i>E</i>	10,100 ksi	Compressive Modulus of Elasticity

ALLOWABLE STRESSES

Fb = 8.64 ksi Allowable bending stress
Fac = 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>Mz</i>	0.06 kip-ft	Bending momemt developed in member	<i>Ma</i> = 0.075 kip-ft
fb =	7.10 ksi	Bending stress developed in member	
Fb =	8.64 ksi	Allowable bending stress of member	fb < Fb OK



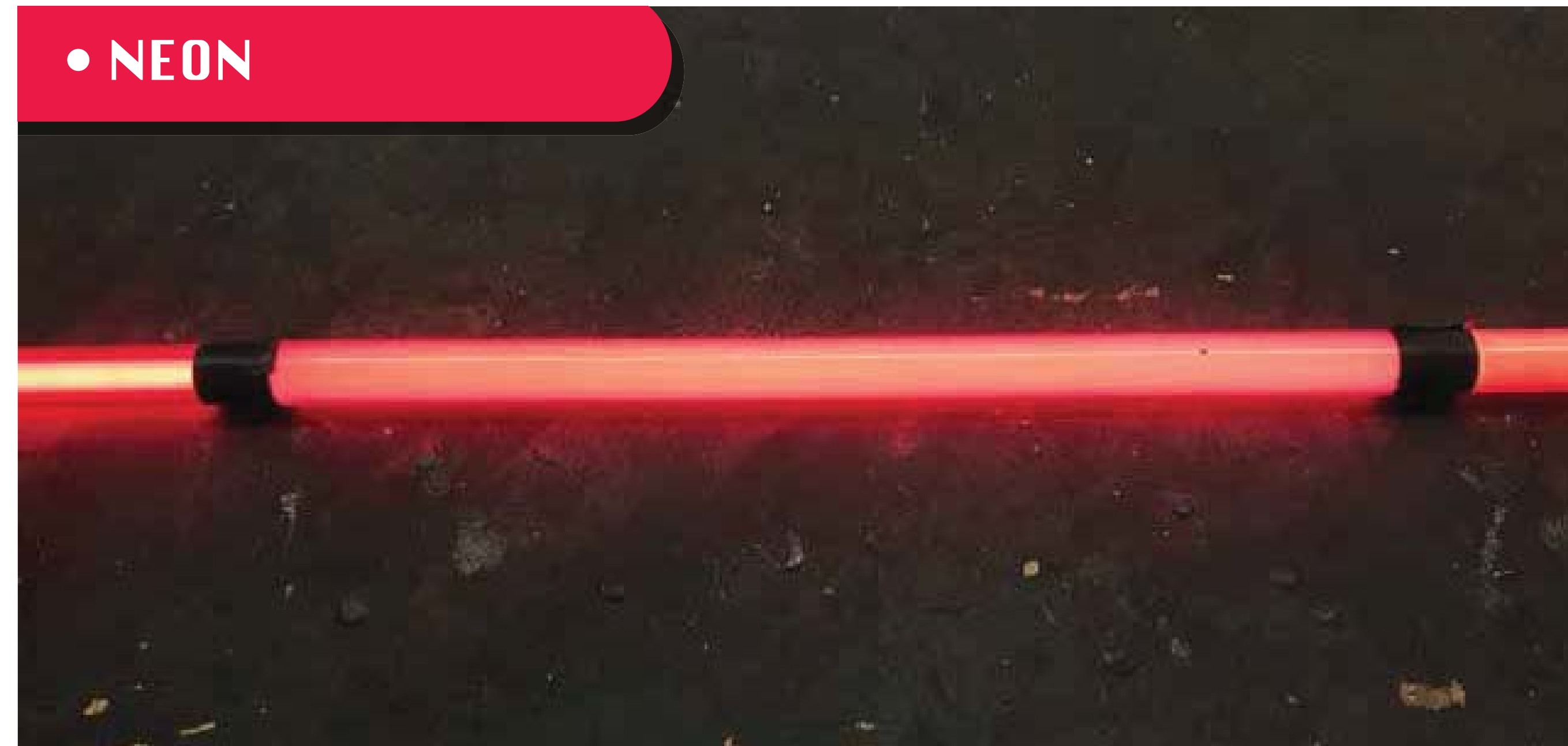
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• DAY / NIGHT VINYL

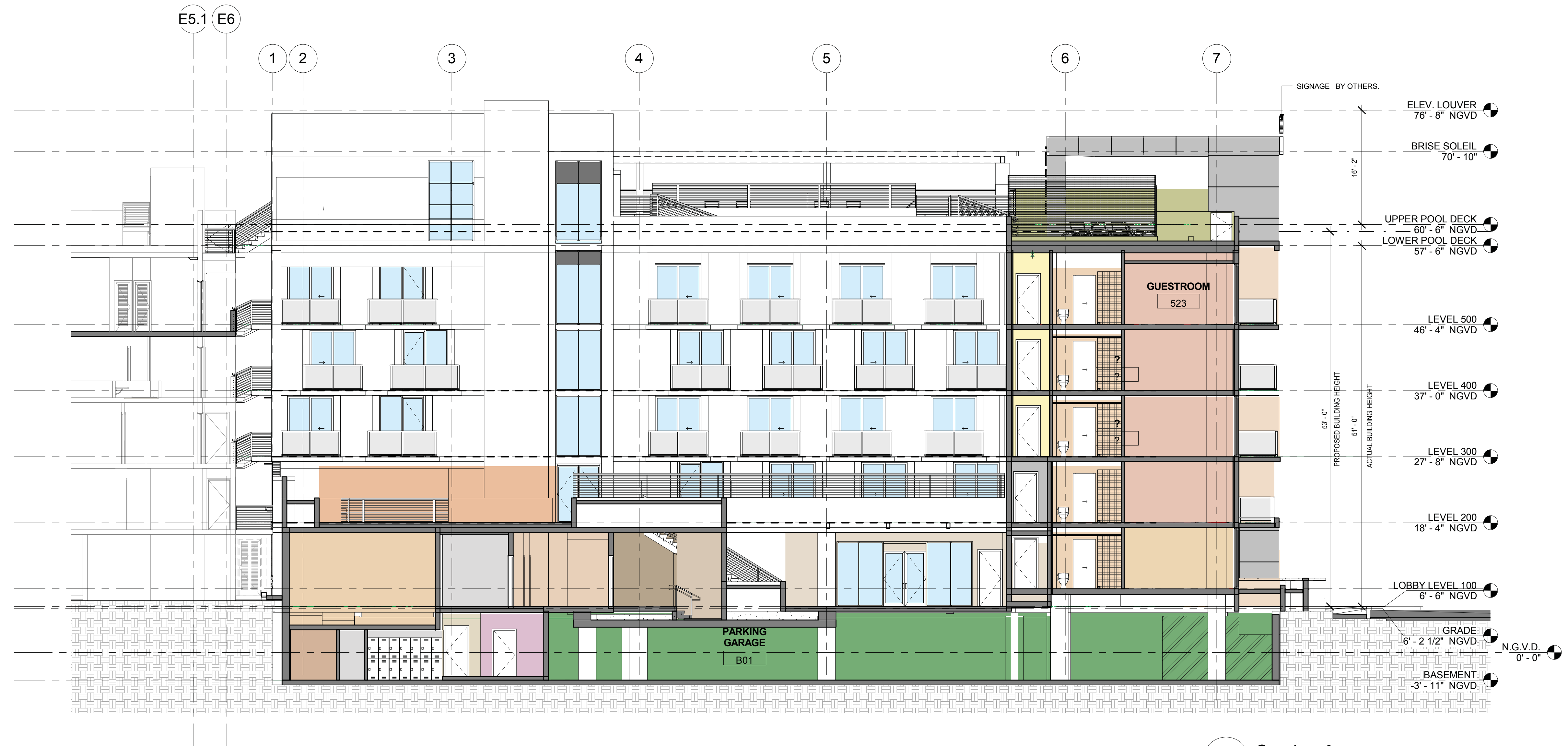


• ALUMINUM



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



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



1 SOUTH ELEVATION SIGNAGE
A-0.3 1/8" = 1'-0"

