Sign Code Variance
Application for Public Hearing
Before the CDC / Design Review Commission

Oak Park

CDC Cal. No.	Fee Paid	Received by	Date

YOU MUST PROVIDE THE FOLLOWING INFORMATION: IF ADDITIONAL SPACE IS NEEDED, ATTACH EXTRA PAGES TO THE PETITION.

Address/Location of Property in Question: 1140 LAKE ST, OAK PARK IL 60301

Name of Business in Question: HOLIDAY INN EXPRESS & SUITES

Property Identification Number(s)(PIN): 16071190140000

Name of Property Owner(s): AZIM HEMANI

Address of Property Owner(s): 1229 E ALGONQUIN ROAD SUITE A, ARLINGTON HEIGHTS, IL 60005

Name of Applicant(s): BRIANNA KOZI

Applicant's Address: 831 N CENTRAL AVE, WOOD DALE, IL 60191

Applicant's Phone Number: Office 773-590-6428 E-Mail BRI@KDNSIGNS.COM

Other: _____

Project Contact: (if Different than Applicant) SIMONE JOHNSON

Contact's Address: 2261 MARKET STREET STE 10301, SAN FRANCISCO, CA 94114

Contact's Phone Number: Office (407) 724-2626 E-Mail KDNSIGNS_OAKPARK_IL@PERMITFLOWTEAM.COM

Other: _____

Property Interest of Applicant: ____Owner ____Legal Representative ____Contract Purchaser ✓ Other

(Describe Other): SIGN CONTRACTOR

Existing Zoning: DT - DOWNTOWN **Sign Overlay District:** DOWNTOWN SIGN OVERLAY DISTRICT

Type of Sign: ___Wall ___Window ___Free Standing ___A-Frame ___Banner

___Ground ✓ Projecting ___Awning or Canopy ___Other _____

The Applicant seeks a variance from the following requirement(s) of the Oak Park Sign Code:

Chapter 7, Article 7, Section(s): Section 7-7-15 B.1.a. Section 7-7-15 B.4.

Describe request: _____

Is the property in question currently in violation of the Zoning Ordinance? ____Yes ✓ No

If Yes, how? _____

Is the property in question presently subject to a Special Use or Planned Development? ____Yes ✓ No

If Yes, how? _____

If Yes, please provide Ordinance No.'s _____

Is the subject property located within any Historic District? ____ Yes ✓ No

If Yes, which district: ____ Frank Lloyd Wright ____ Ridgeland/Oak Park ____ Gunderson

Is the subject property located within any of the following Zoning Overlay Districts:

____Transit-Related Retail ____Perimeter ____Madison Street ____Roosevelt Road ____Marion Street

____Lake Street ✓ N/A

I (we) certify that all the above statements and the statements contained in any papers or plans submitted herewith are true to the best of my (our) knowledge and belief.

I (we) consent to the entry in or upon the premises described in this application by any authorized official of the Village of Oak Park for the purpose of securing information, posting, maintaining and removing such notices as may be required by law. Owner's signature must be notarized.

(Signature) Applicant _____ 9/15/25 Date

(Signature) Owner _____ 9/15/25 Date

Owner's Signature must be notarized

SUBSCRIBED AND SWORN TO BEFORE ME THIS

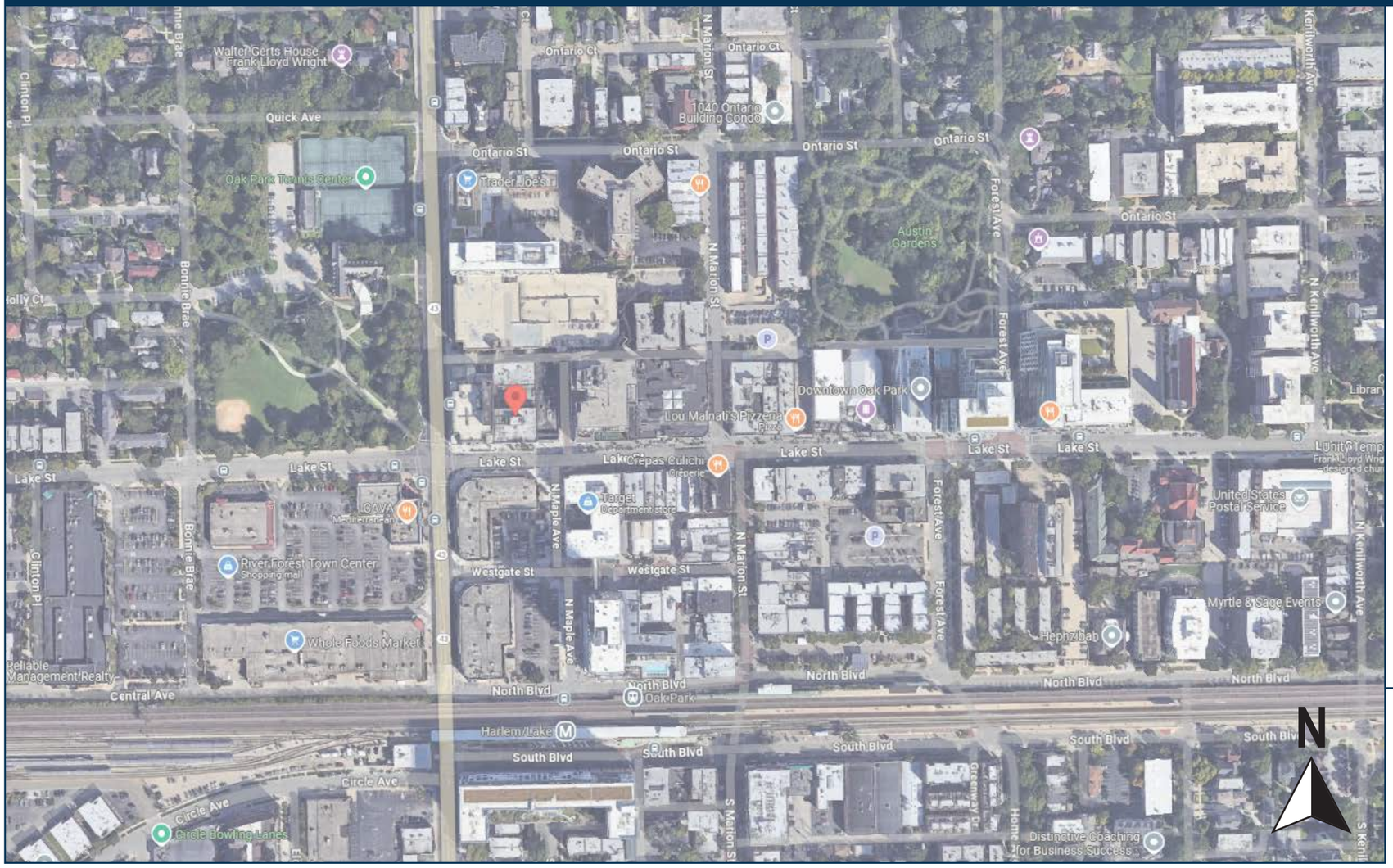
17th DAY OF September, 2025

(Notary Public) _____

Official Seal
Muhammad Nasir Junagadhwala
Notary Public State of Illinois
My Commission Expires 8/20/2026

Created November 2009
by Community Planning and Development Department

VICINITY MAP



SCALE: NTS

SIGN CODE REVIEW

-

IHG®
HOTELS & RESORTS

*** NOTE: NOT FOR PRODUCTION - MOCK-UP DRAWINGS ARE FOR VISUAL PURPOSES ONLY.**

** ALL ITEMS SHOWN ARE SUBJECT TO CORPORATE BRANDING APPROVAL, SITE SURVEY VERIFICATION AND THE LOCATION'S MUNICIPALITY CODE REQUIREMENTS.

JONES SIGN
Your Vision. Accomplished.
A Mortensen Company

JOB #: 303330_R2
DATE: 02.07.2025
DESIGNER: J. SOTKA
SALES REP: A. SCHWARTZ
PROJ MGR: L. CHOW

REQUIRED:

- ☐ FIELD SURVEY
- ☐ PAINT COLOR
- ☐ FONTS
- ☐ VECTOR ARTWORK
- ☐ CLIENT PMS COLOR
- ☐ ENGINEERING

OTHER:

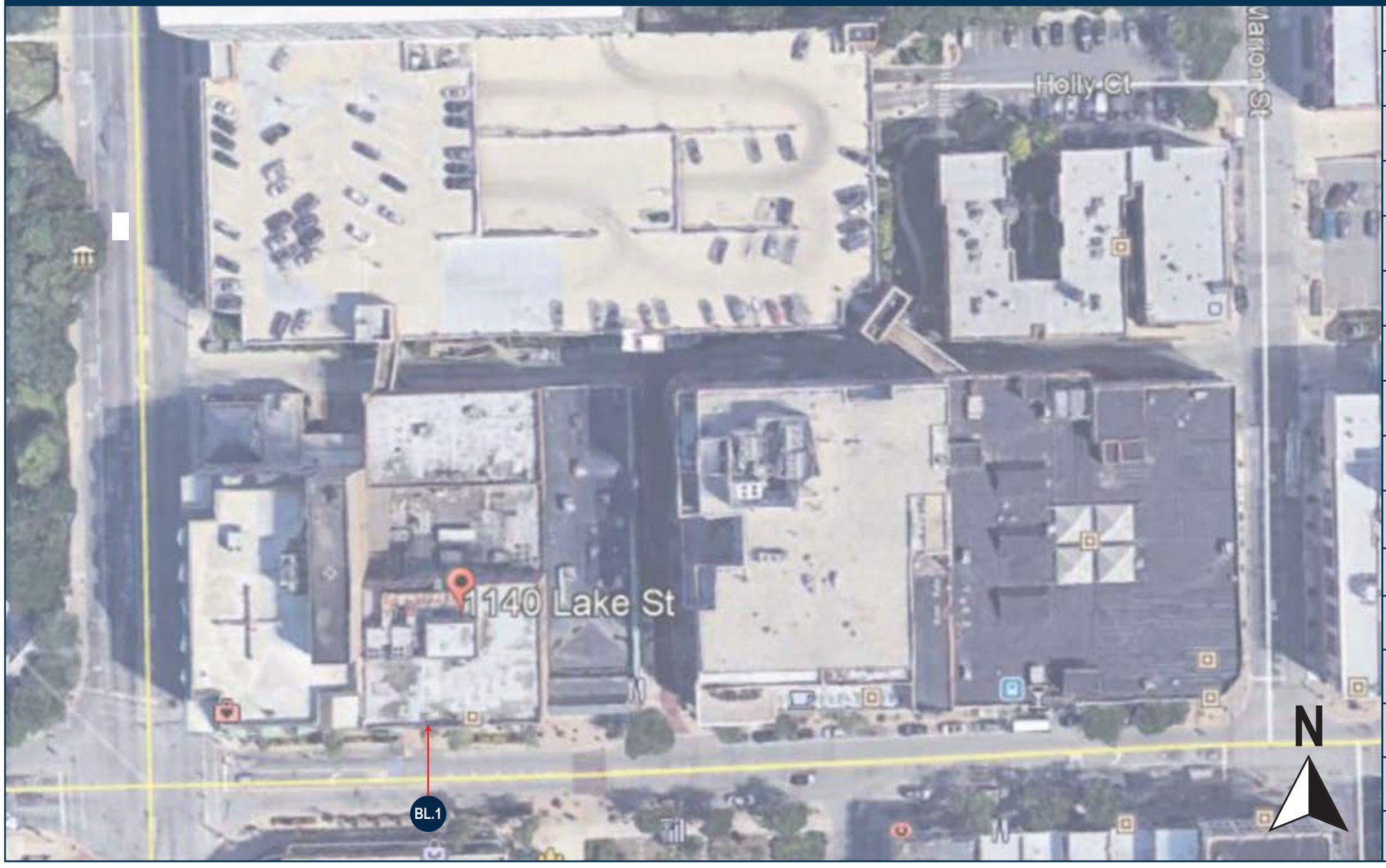
LANDLORD APPROVAL — DATE

CLIENT APPROVAL — DATE

HOLIDAY INN EXPRESS - CHIOP
1140 LAKE STREET
OAK PARK, IL 60301

SHEET NUMBER
2.0

SITEPLAN



SCOPE OF WORK

EXTERIOR SIGNS		QTY
BL.1	INTERNALLY LIT BLADE SIGN	1

SCALE: NTS

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LANDLORD APPROVAL DATE

CLIENT APPROVAL DATE

HOLIDAY INN EXPRESS - CHIOP
1140 LAKE STREET
OAK PARK, IL 60301

SHEET NUMBER
3.0

DESIGNS PREPARED FOR:

Holiday Inn Express & Suites

SITE ADDRESS:
CHIOP
1140 LAKE STREET
OAK PARK, IL 60301

JOB NUMBER:
303330

SALES REPRESENTATIVE:
A. SCHWARTZ

PROJECT MANAGER:
L. CHOW

JONES SIGN
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A MORTENSEN COMPANY

DESIGN REVISIONS:

REV. #	DATE	DESIGNER	REVISION COMPLETED	INTERNAL	PERMIT	CLIENT
1	02.12.2025	JS	BL.1 ILLUMINATE MONOGRAM BACKGROUND, UPDATE TO CONFIRM COPY IS FACE LIT CHANNEL LETTERS / CA.1 REVISED TO FULL LENGTH OF CANOPY (DEPTH)	●		
2	04.09.2025	JS	BL.1 RELOCATE / ADD PRODUCTION SPECS	●		●
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

REV. #	DATE	DESIGNER	REVISION COMPLETED	INTERNAL	PERMIT	CLIENT
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						

DESIGNER NOTES

DATE	DESIGNER	NOTE
XX.XX.XX	XXX	XXX

PRE-FLIGHT PRINT LIST

GOOD TO GO	PRIMARY CHECKS	GOOD TO GO	ADDITIONAL CHECKS
	NO MISSING / UNPACKAGED / UNLINKED IMAGES		REMOVE ANY NON-PRINTING DATA
	ENSURE IMAGE RESOLUTION 100 PPI AT FULL SCALE - REFER TO JONES ART REQUIREMENTS REGARDING POSSIBLE EXCEPTIONS		**FLATTEN TRANSPARENCIES** (FLATTEN RASTER IMAGES AND EFFECTS, LEAVE VECTOR COPY, LOGOS ETC. INTACT AS VECTORS)
	COLORS - MUST BE CMYK OR PANTONE		CONVERT FONTS TO PATHS (OR CURVES)
	ENSURE IMAGE SIZE & PROPORTIONS ARE CORRECT FOR FINAL PRODUCT, AND ANY INCLUDED BLEED & TRIM MARKS MATCH CLIENT SPECS		EMBED IMAGES OR ENSURE UNEMBEDDED IMAGES ARE PROPERLY LOCATED FOR SYSTEM USE

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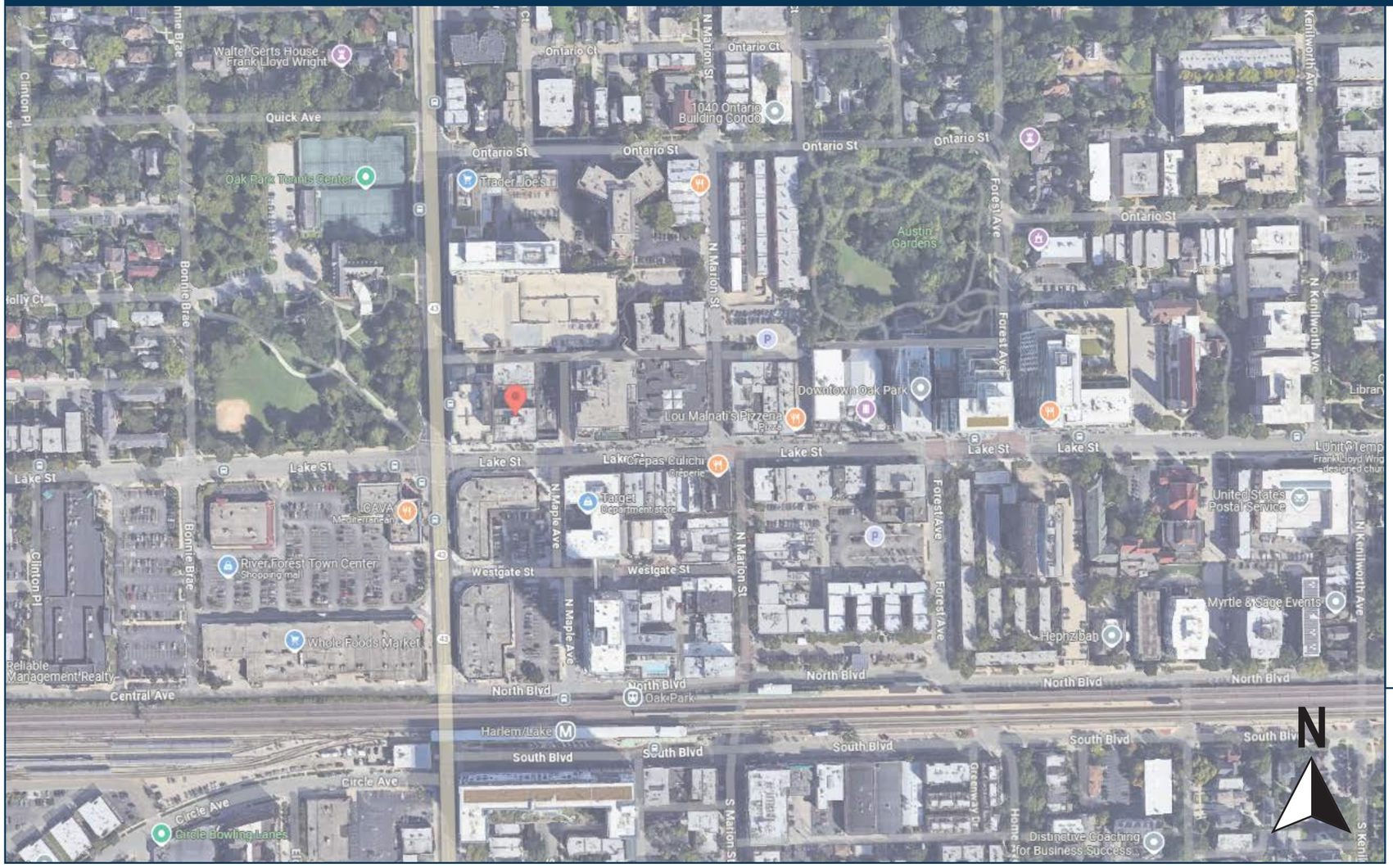
Holiday Inn Express & Suites

HOLIDAY INN EXPRESS - CHIOP
1140 LAKE STREET
OAK PARK, IL 60301

SHEET NUMBER
1.0

VICINITY MAP



SCALE: NTS

SIGN CODE REVIEW

-

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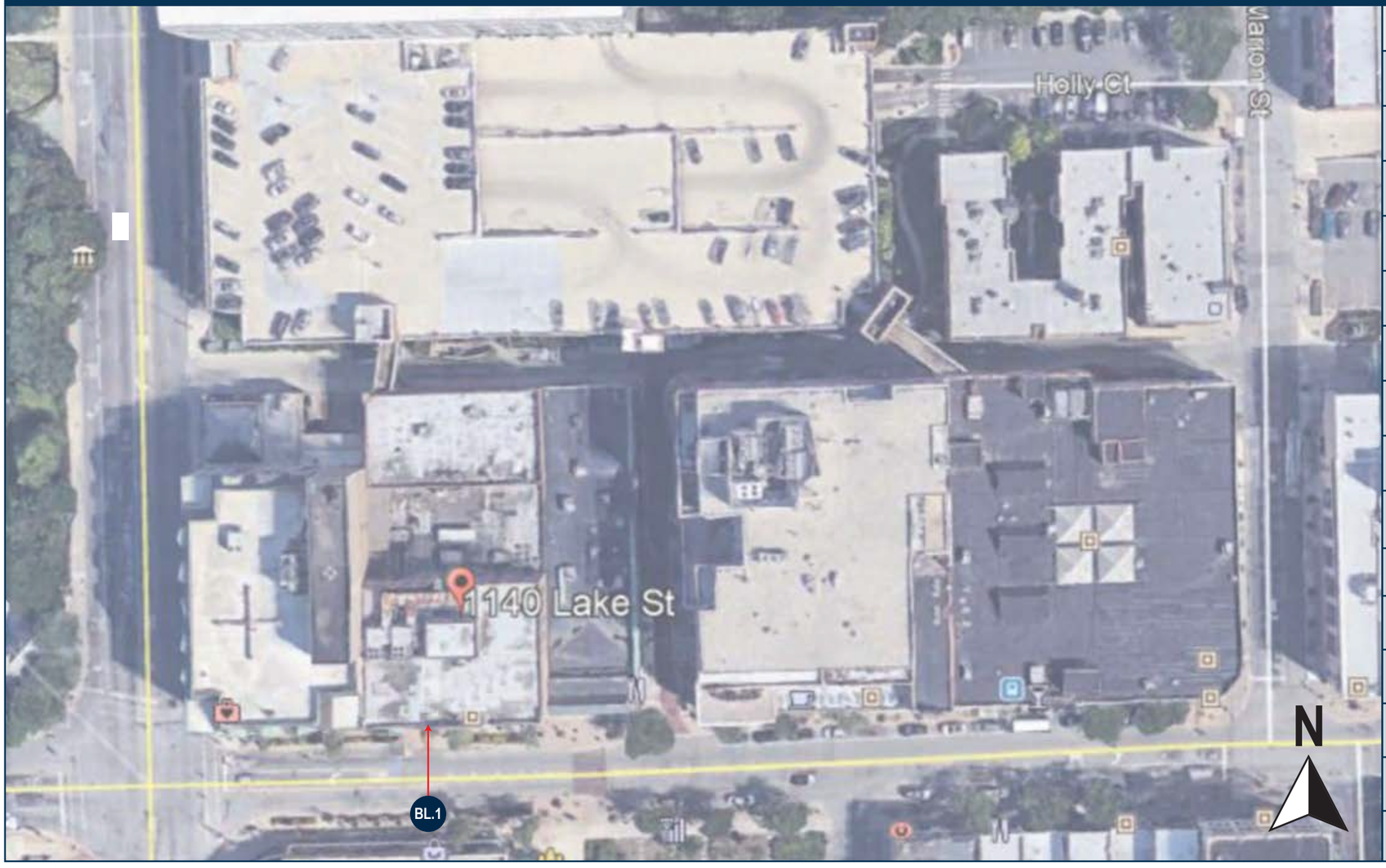
SITEPLAN



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OTHER:

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CLIENT APPROVAL DATE

HOLIDAY INN EXPRESS - CHIOP
1140 LAKE STREET
OAK PARK, IL 60301

SHEET NUMBER
3.0

SOUTH ELEVATION

PROPOSED SOUTH ELEVATION
SCALE: 1/16"=1'-0"

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DESIGNER: J. SOTKA
SALES REP: A. SCHWARTZ
PROJ MGR: L. CHOW

REQUIRED:

- [ ] FIELD SURVEY
- [ ] VECTOR ARTWORK
- [ ] PAINT COLOR
- [ ] CLIENT PMS COLOR
- [ ] FONTS
- [x] ENGINEERING

OTHER:

LANDLORD APPROVAL DATE

CLIENT APPROVAL DATE

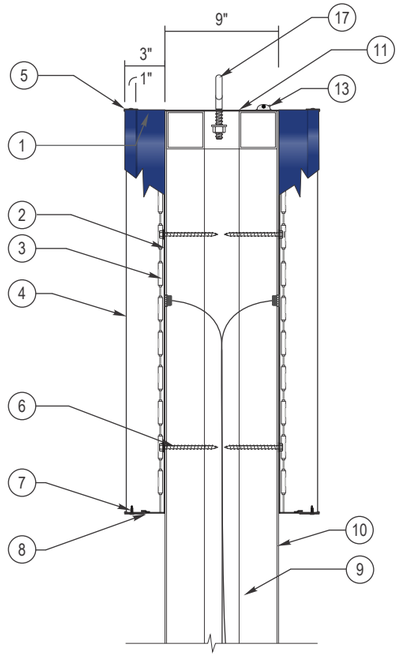
Holiday Inn Express & Suites

HOLIDAY INN EXPRESS - CHIOP
1140 LAKE STREET
OAK PARK, IL 60301

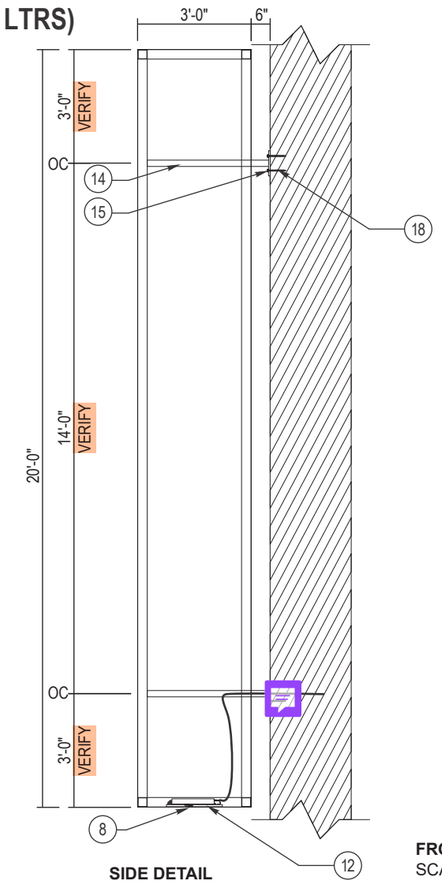
SHEET NUMBER
4.0

BL.1 D/F BLADE SIGN w/ FACE LIT CHANNEL LETTERS (QTY 1 BLADE / 2 SETS CHNL LTRS)

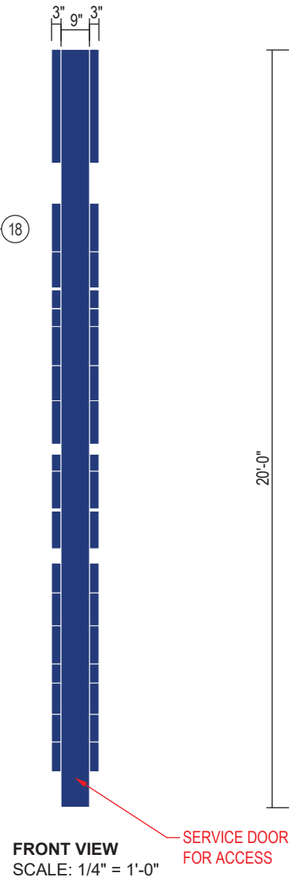
OVERALL SQUARE FOOTAGE: 60



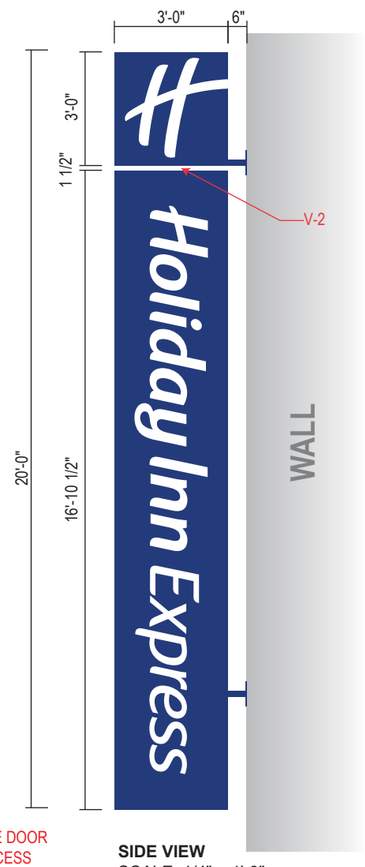
FRONT SECTION VIEW
SCALE: 1" = 1'-0"



SIDE DETAIL
SCALE: 1/4" = 1'-0"

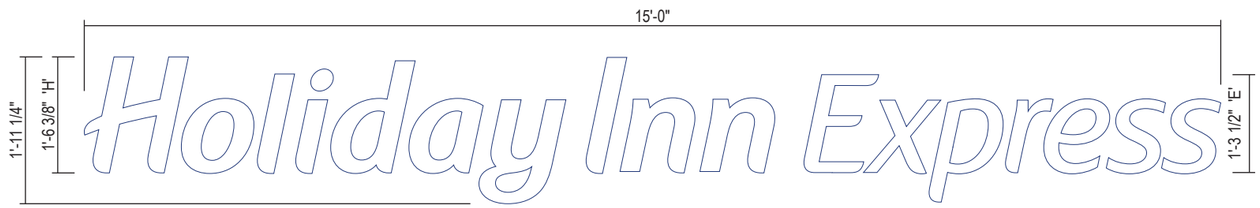


FRONT VIEW
SCALE: 1/4" = 1'-0"



SIDE VIEW
SCALE: 1/4" = 1'-0"

NIGHT VIEW
SCALE: 1/4" = 1'-0"



CHANNEL LETTER LAYOUT
SCALE: 1/2" = 1'-0"

NOTES:
1. ETL / UL STICKER TO BE PLACED ON BOTTOM OF SIGN, VISIBLE FROM GROUND.

JONES SIGN
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A Mortensen Company

JOB #: **303330_R2**
DATE: 02.07.2025
DESIGNER: J. SOTKA
SALES REP: A. SCHWARTZ
PROJ MGR: L. CHOW

REQUIRED:
- [x] FIELD SURVEY
- [ ] VECTOR ARTWORK
- [ ] PAINT COLOR
- [ ] CLIENT PMS COLOR
- [ ] FONTS
- [x] ENGINEERING

OTHER:

LANDLORD APPROVAL DATE

CLIENT APPROVAL DATE

Holiday Inn Express & Suites

HOLIDAY INN EXPRESS - CHIOP
1140 LAKE STREET
OAK PARK, IL 60301

SHEET NUMBER
4.0

FENDRICH ENGINEERING, INC

305 EAST MONROE STREET
SPRINGFIELD, IL 62701

August 19, 2025

Structural Calculations

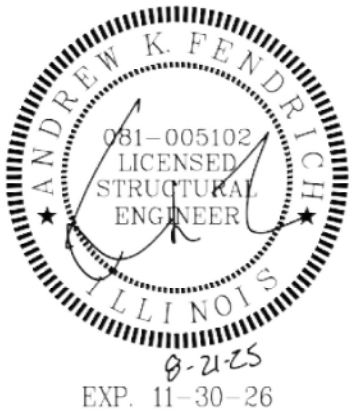
Prepared For:
Jones Sign – WI
1711 Scheuring Rd.
De Prere, WI 54115

Project:

ILL_182525
Holiday Inn Express- Blade Sign
1140 Lake Street
Oak Park, IL

Prepared By:

Fendrich Engineering, Inc.
305 East Monroe Street
Springfield, IL 62701



Total 10- pages including cover

Y.J. INC.

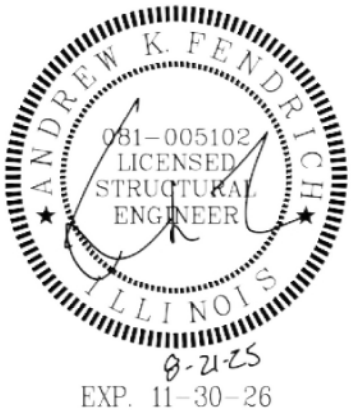
P. O. Box 802050
Santa Clarita, CA 91380

TEL: (661) 259-0700
FAX: (661) 259-0900

DATE 8/19/2025

Sign Design Based On 2018 IBC

Job #	ILL_182525
Project	Holiday Inn Express - Blade Sign
Job Location	1140 Lake Street
	Oak Park, IL



INPUT DATA

Exposure category (B, C or D)		=	C	
Risk Category		=	II	
Ultimate Design Windspeed	V_{ULT}	=	110	MPH
Topographic factor	K_{zt}	=	1	Flat
Height of the sign	h	=	40.00	FT
Vertical dimension (for wall, s = h)	s	=	20.00	FT
Average Horizontal dimension	B	=	3.01	FT
Dimension of return corner	L_r	=	0.75	FT

ANALYSIS

Velocity pressure

$q_z = 0.00256\ K_z K_{zt} K_d V^2 K_e$ = **27.38** PSF

where:

q_z = velocity pressure at height h. (Eq. 26.10-1 page. 268)

K_z = velocity pressure exposure coefficient = **1.04**

evaluated at height above gRnd. level, h (Tab. 26.10-1, page 268)

K_d = wind directionality factor. (Tab. 26.6-1, page 266) = **0.85**

K_e = ground elevation factor, see (Tab. 26.9-1, page 268) = **1.00**

Wind Force Case A: resultant force through geometric center

	Max horizontal wind pressure $p = q_z G C_f$ =	=	42	PSF
where:	G = gust effect factor. (Sec. 26.11-1, page 269).	=	0.85	
	C_f = net force coefficient. (Fig. 29.3-1, page 323)		1.82	
	A_s = B s = the gross area	=	60.21	FT^2
	Estimated sign cabinet weight	=	362	LBS.

DESIGN SUMMARY

Allowable Stress Design Wind Factor =		0.60	
Design Wind Pressure =	**0.6 x p =**	25.48	PSF
Design Windforce, F =	**25.48 x As =**	1.53	KIPS
Moment Arm =		1.99	FT
Design Moment =	**F x Moment Arm =**	3.06	KIP-FT

Outrigger Design — ALUM. SQ. TUBE

Sec. Mod. Req'd. — USE 6061-T6 W

S = 2.49 | **RT 4.0" x 4.0" x 0.25"** | S = 4.41 **(OK)**

S = (((3.06*1000)*12)+(1.994*12*(362)))/2/(9100)

Mounting Plate — ALUM. PLATE

Thickness Req'd. — USE 6061-T6

t = 0.34 | **PL 30" x 14" x 3/8"** | S= 0.38 **(OK)**

t = SQRT(6*(((3.06*1000)*12*3.81)/2/(30*10*11818)))

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Sign Design Based On 2018 IBC

Job #	ILL_182525
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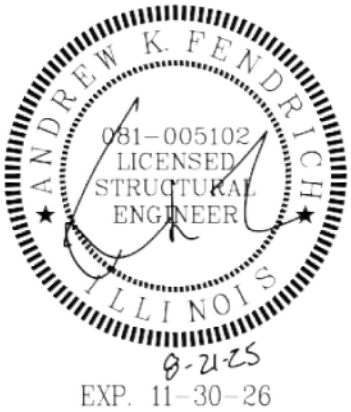
Job Location	1140 Lake Street
	Oak Park, IL



Anchor Design *(See attached HILTI Profis calcs)*

Loads per ACI 318-14

Unfactored Load		Unit	Factor	Factored Load
Deadload, D	362	LBS	1.2	435
Deadload, M	8668	IN-LB	1.2	10401
Windload, F	1279	LBS	1	1279
Windload, M	30594	IN-LB	1	30594

HILIT HIT-RE 500 V3 + HAS-B-105 HDG
ASTM F1554 GR. 105 THREADED ROD
USE ICC-ESR#3814

5/8" DIA., x 10.000" NOM EMBED

Frame Design

ALUM. SQ. TUBE
USE 6061-T6 W

Sec. Mod. Req'd.

S = 0.62 | **RT 2.0" x 2.0" x 0.25"** | S = 0.91 **(OK)**

S = (25.48*3*14^2*12)/(8*2*2*9100)

Company:	YJ Inc.	Page:	1
Address:	P.O. BOX 802050, SANTA CLARITA, CA. 91380	Specifier:	B.B.
Phone I Fax:	661 259 0700 |	E-Mail:	info@yjinc.com
Design:	ILL_182525_Holiday Inn Express	Date:	8/18/2025
Fastening point:	1140 Lake Street, Oak Park, IL		

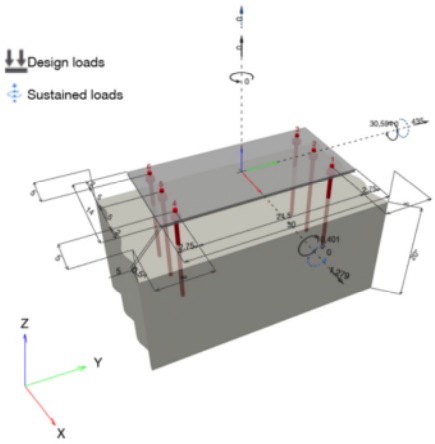
Specifier's comments: Blade Sign

1 Input data

Anchor type and diameter:	**HIT-RE 500 V3 + HAS-B-105 HDG (ASTM F1554 Gr.105) 5/8**
Item number:	not available (element) / 2123401 HIT-RE 500 V3 (adhesive)
Specification text:	Hilti ∅ 5/8 in HIT-RE 500 V3 + HAS-B-105 HDG (ASTM F1554 Gr.105) with 10 in nominal embedment depth per ICC-ES ESR-3814 , Hammer drill bit installation per MPII,
Effective embedment depth:	$h_{ef,act}$ = 10.000 in. ($h_{ef,limit}$ = - in.)
Material:	ASTM F1554 Grade 105
Evaluation Service Report:	ESR-3814
Issued I Valid:	1/1/2025 | 1/1/2027
Proof:	Design Method ACI 318-19 / Chem
Shear edge breakout verification:	Row closest to edge (Case 3 only from ACI 318-19 Fig. R.17.7.2.1b)
Stand-off installation:	without clamping (anchor); restraint level (anchor plate): 1.00; e_b = 5.000 in.; t = 0.500 in.
Anchor plate[R]:	l_x x l_y x t = 14.000 in. x 30.000 in. x 0.500 in.; (Recommended plate thickness: not calculated)
Profile:	no profile
Base material:	cracked concrete, 2500, f_c' = 2,500 psi; h = 20.000 in., Temp. short/long: 110/80 °F
Installation:	**Hammer drilled hole, Installation condition: Dry**
Reinforcement:	tension: not present, shear: not present; no supplemental splitting reinforcement present edge reinforcement: none or < No. 4 bar

[R] - The anchor calculation is based on a rigid anchor plate assumption.

Geometry [in.] & Loading [lb, in.lb]

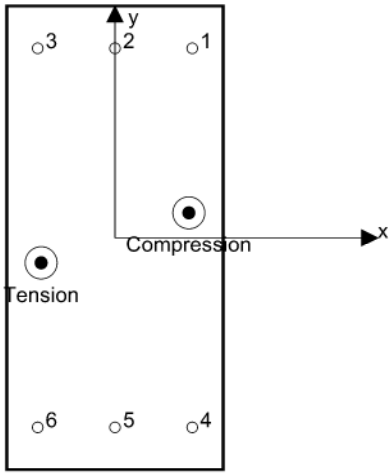


Company:	YJ Inc.	Page:	2
Address:	P.O. BOX 802050, SANTA CLARITA, CA. 91380	Specifier:	B.B.
Phone I Fax:	661 259 0700 |	E-Mail:	info@yjinc.com
Design:	ILL_182525_Holiday Inn Express	Date:	8/18/2025
Fastening point:	1140 Lake Street, Oak Park, IL		

1.1 Design results

Case	Description	Forces [lb] / Moments [in.lb]	Seismic	Max. Util. Anchor [%]
1	Combination 1	N = 0; V_x = 1,279; V_y = 435; M_x = -10,401; M_y = 30,594; M_z = 0;	no	97

2 Load case/Resulting anchor forces



Anchor reactions [lb]
Tension force: (+Tension, -Compression)

Anchor	Tension force	Shear force	Shear force x	Shear force y
1	-1,671	225	213	72
2	-142	225	213	72
3	1,388	225	213	72
4	-1,388	225	213	72
5	142	225	213	72
6	1,671	225	213	72

Max. concrete compressive strain: - [‰]
Max. concrete compressive stress: - [psi]
Resulting tension force in (x/y)=(-4.779/-1.625): 3,201 [lb]
Resulting compression force in (x/y)=(4.779/1.625): 3,201 [lb]

Anchor forces are calculated based on the assumption of a rigid anchor plate.

3 Tension load

	Load N_{ua} [lb]	Capacity ϕ N_n [lb]	Utilization $\beta_N = N_{ua}/\phi$ N_n	Status
Steel Strength*	1,671	21,187	8	OK
Bond Strength**	3,201	17,395	19	OK
Sustained Tension Load Bond Strength*	N/A	N/A	N/A	N/A
Concrete Breakout Failure**	3,201	13,266	25	OK

* highest loaded anchor **anchor group (anchors in tension)

3.1 Steel Strength

N_{sa} [lb]	ϕ	ϕ N_{sa} [lb]	N_{ua} [lb]
28,250	0.750	21,187	1,671

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Design:	ILL_182525_Holiday Inn Express	Date:	8/18/2025
Fastening point:	1140 Lake Street, Oak Park, IL		

3.2 Bond Strength

A_{Na} [in.^{2}]	A_{Na0} [in.^{2}]	c_{Na} [in.]	$c_{a,min}$ [in.]	c_{ac} [in.]
575.66	311.09	8.819	5.000	20.851

$\alpha_{overhead}$	$\tau_{k,uncr}$ [psi]	$\tau_{k,cr}$ [psi]
1.000	2,210	1,260

$e_{c1,N}$ [in.]	$\Psi_{ec1,Na}$	$e_{c2,N}$ [in.]	$\Psi_{ec2,Na}$	$\Psi_{ed,Na}$	$\Psi_{cp,Na}$
1.446	0.859	2.459	0.782	0.870	1.000

λ_a	N_{ba} [lb]	ϕ	ϕN_{ag} [lb]	N_{ua} [lb]
1.000	24,740	0.650	17,395	3,201

3.3 Concrete Breakout Failure

A_{Nc} [in.^{2}]	A_{Nc0} [in.^{2}]	$c_{a,min}$ [in.]	c_{ac} [in.]	$\Psi_{c,N}$
1,090.00	900.00	5.000	20.851	1.000

$e_{c1,N}$ [in.]	$\Psi_{ec1,N}$	$e_{c2,N}$ [in.]	$\Psi_{ec2,N}$	$\Psi_{ed,N}$	$\Psi_{cp,N}$	k_{cr}
1.446	0.912	2.459	0.859	0.800	1.000	17

λ_a	N_b [lb]	ϕ	ϕN_{cbg} [lb]	N_{ua} [lb]
1.000	26,879	0.650	13,266	3,201

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Phone I Fax:	661 259 0700 |	E-Mail:	info@yjinc.com
Design:	ILL_182525_Holiday Inn Express	Date:	8/18/2025
Fastening point:	1140 Lake Street, Oak Park, IL		

4 Shear load

	Load V_{ua} [lb]	Capacity ϕ V_n [lb]	Utilization $\beta_V = V_{ua}/\phi$ V_n	Status
Steel Strength*	225	11,018	3	OK
Steel failure (with lever arm)*	225	245	93	OK
Pryout Strength (Concrete Breakout Strength controls)**	1,351	36,460	4	OK
Concrete edge failure in direction x+**	1,351	6,565	21	OK

* highest loaded anchor **anchor group (relevant anchors)
When the input edge distance is set to "infinity", edge breakout verification is not performed in that direction

4.1 Steel Strength

V_{sa} [lb]	ϕ	ϕ V_{sa} [lb]	V_{ua} [lb]
16,950	0.650	11,018	225

4.2 Steel failure (with lever arm)

l [in.]	α_M
5.562	1.00

N_u/ϕ N_s	1 - N_u/ϕ N_s	M_s^0 [in.lb]	$M_s = M_s^0$ (1 - N_u/ϕ N_s) [in.lb]
0.079	0.921	2,273	2,094

$V_s^M = \alpha_M * M_s / l_b$ [lb]	ϕ	ϕ V_s^M [lb]	V_{ua} [lb]
376	0.650	245	225

4.3 Pryout Strength (Concrete Breakout Strength controls)

A_{Nc} [in.^{2}]	A_{Nc0} [in.^{2}]	$c_{a,min}$ [in.]	k_{cp}	c_{ac} [in.]	$\Psi_{c,N}$
1,090.00	900.00	5.000	2	20.851	1.000

$e_{c1,V}$ [in.]	$\Psi_{ec1,V}$	$e_{c2,V}$ [in.]	$\Psi_{ec2,V}$	$\Psi_{ed,N}$	k_{cr}
0.000	1.000	0.000	1.000	0.800	17

λ_a	N_b [lb]	ϕ	ϕ V_{cpg} [lb]	V_{ua} [lb]
1.000	26,879	0.700	36,460	1,351

4.4 Concrete edge failure in direction x+

l_e [in.]	d_a [in.]	c_{a1} [in.]	A_{Vc} [in.^{2}]	A_{Vc0} [in.^{2}]
5.000	0.625	5.000	225.00	112.50

$\Psi_{ed,V}$	$\Psi_{parallel,V}$	$e_{c,V}$ [in.]	$\Psi_{ec,V}$	$\Psi_{c,V}$	$\Psi_{h,V}$
1.000	1.000	0.000	1.000	1.000	1.000

λ_a	V_b [lb]	ϕ	ϕ V_{cbg} [lb]	V_{ua} [lb]
1.000	4,689	0.700	6,565	1,351

When the input edge distance is set to "infinity", edge breakout verification is not performed in that direction

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5 Combined tension and shear loads, per ACI 318-19 section 17.8

β_N	β_V	ζ	Utilization $\beta_{N,V}$ [%]	Status
0.241	0.920	5/3	97	OK

$\beta_{NV} = \beta_N^{\zeta} + \beta_V^{\zeta} <= 1$

6 Warnings

- The anchor design methods in PROFIS Engineering require rigid anchor plates per current regulations (AS 5216:2021, ETAG 001/Annex C, EOTA TR029 etc.). This means load re-distribution on the anchors due to elastic deformations of the anchor plate are not considered - the anchor plate is assumed to be sufficiently stiff, in order not to be deformed when subjected to the design loading. PROFIS Engineering calculates the minimum required anchor plate thickness with CBFEM to limit the stress of the anchor plate based on the assumptions explained above. The proof if the rigid anchor plate assumption is valid is not carried out by PROFIS Engineering. Input data and results must be checked for agreement with the existing conditions and for plausibility!
- The equations presented in this report are based on imperial units. When inputs are displayed in metric units, the user should be aware that the equations remain in their imperial format.
- Condition A applies where the potential concrete failure surfaces are crossed by supplementary reinforcement proportioned to tie the potential concrete failure prism into the structural member. Condition B applies where such supplementary reinforcement is not provided, or where pullout or pryout strength governs.
- ACI 318 does not specifically address anchor bending when a stand-off condition exists. PROFIS Engineering calculates a shear load corresponding to anchor bending when stand-off exists and includes the results as a shear Design Strength!
- Design Strengths of adhesive anchor systems are influenced by the cleaning method. Refer to the INSTRUCTIONS FOR USE given in the Evaluation Service Report for cleaning and installation instructions.
- For additional information about ACI 318 strength design provisions, please go to https://viewer.joomag.com/profis-design-guide-us-en-summer-2021/0841849001625154758?short&/
- Attention! In case of compressive anchor forces a buckling check as well as the proof of the local load transfer into and within the base material (incl. punching) has to be done separately.
- Installation of Hilti adhesive anchor systems shall be performed by personnel trained to install Hilti adhesive anchors. Reference ACI 318-19, Section 26.7.

Fastening meets the design criteria!

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7 Installation data

Profile: no profile

Hole diameter in the fixture: d_f = 0.687 in.

Plate thickness (input): 0.500 in.

Recommended plate thickness: not calculated

Drilling method: Hammer drilled

Cleaning: Compressed air cleaning of the drilled hole according to instructions for use is required

Anchor type and diameter: HIT-RE 500 V3 + HAS-B-105 HDG (ASTM F1554 Gr.105) 5/8

Item number: not available (element) / 2123401 HIT-RE 500 V3 (adhesive)

Maximum installation torque: 720 in.lb

Hole diameter in the base material: 0.750 in.

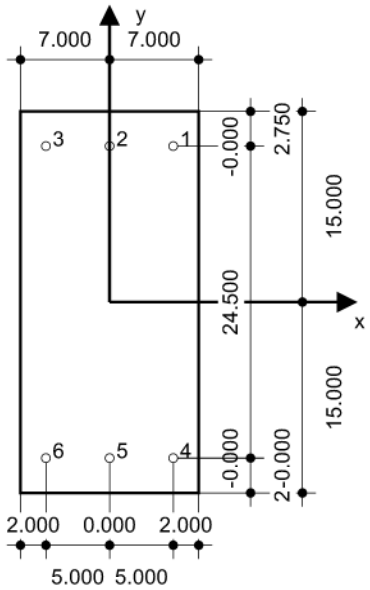
Hole depth in the base material: 10.000 in.

Minimum thickness of the base material: 11.500 in.

Hilti ∅ 5/8 in HIT-RE 500 V3 + HAS-B-105 HDG (ASTM F1554 Gr.105) with 10 in nominal embedment depth per ICC-ES ESR-3814 , Hammer drill bit installation per MPII

7.1 Recommended accessories

Drilling	Cleaning	Setting
• Suitable Rotary Hammer • Properly sized drill bit	• Compressed air with required accessories to blow from the bottom of the hole • Proper diameter wire brush	• Dispenser including cassette and mixer • Torque wrench



Coordinates Anchor [in.]

Anchor	x	y	c_{-x}	c_{+x}	c_{-y}	c_{+y}
1	5.000	12.250	15.000	5.000	-	-
2	0.000	12.250	10.000	10.000	-	-
3	-5.000	12.250	5.000	15.000	-	-
4	5.000	-12.250	15.000	5.000	-	-
5	-0.000	-12.250	10.000	10.000	-	-
6	-5.000	-12.250	5.000	15.000	-	-

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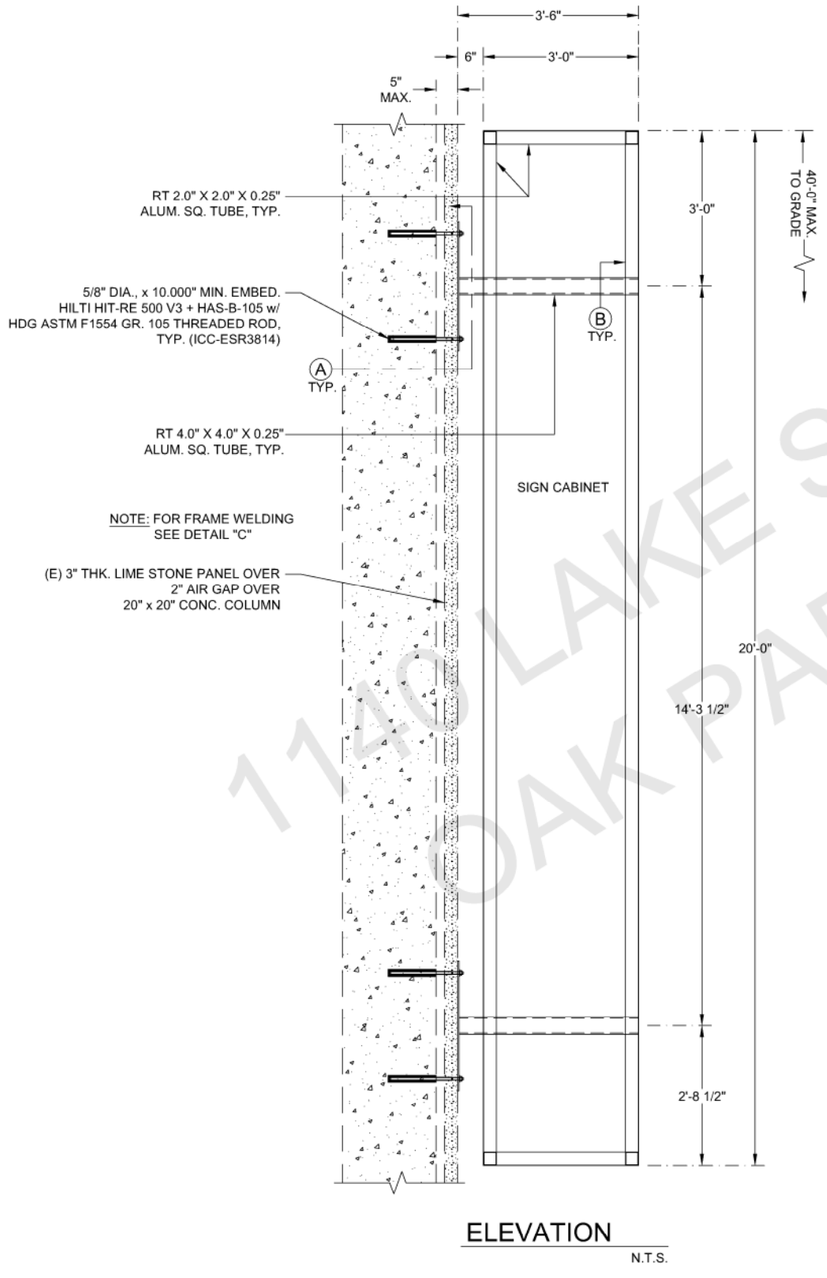
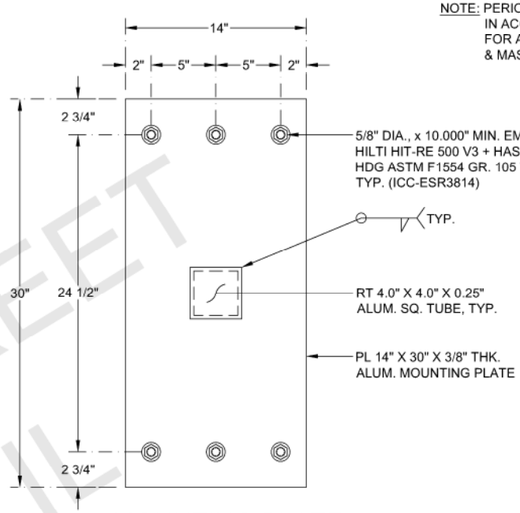
8 Remarks; Your Cooperation Duties

- Any and all information and data contained in the Software concern solely the use of Hilti products and are based on the principles, formulas and security regulations in accordance with Hilti's technical directions and operating, mounting and assembly instructions, etc., that must be strictly complied with by the user. All figures contained therein are average figures, and therefore use-specific tests are to be conducted prior to using the relevant Hilti product. The results of the calculations carried out by means of the Software are based essentially on the data you put in. Therefore, you bear the sole responsibility for the absence of errors, the completeness and the relevance of the data to be put in by you. Moreover, you bear sole responsibility for having the results of the calculation checked and cleared by an expert, particularly with regard to compliance with applicable norms and permits, prior to using them for your specific facility. The Software serves only as an aid to interpret norms and permits without any guarantee as to the absence of errors, the correctness and the relevance of the results or suitability for a specific application.
- You must take all necessary and reasonable steps to prevent or limit damage caused by the Software. In particular, you must arrange for the regular backup of programs and data and, if applicable, carry out the updates of the Software offered by Hilti on a regular basis. If you do not use the AutoUpdate function of the Software, you must ensure that you are using the current and thus up-to-date version of the Software in each case by carrying out manual updates via the Hilti Website. Hilti will not be liable for consequences, such as the recovery of lost or damaged data or programs, arising from a culpable breach of duty by you.

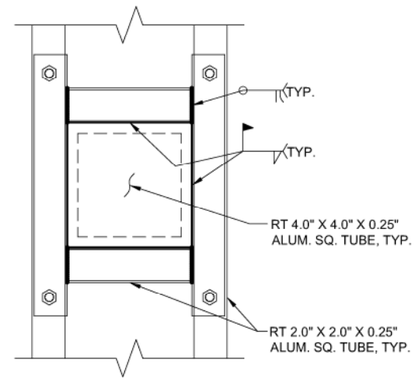


ELEVATION
N.T.S.



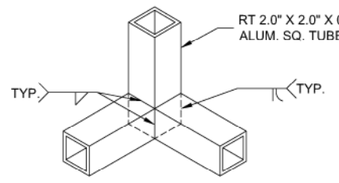
A MOUNTING PLATE
t= 3/8" (2 PLACES) N.T.S.

NOTE: PERIODIC SPECIAL INSPECTION REQUIRED IN ACCORDANCE WITH IBC CHAPTER 17 FOR ALL POST INSTALLED CONCRETE & MASONRY ANCHORS.

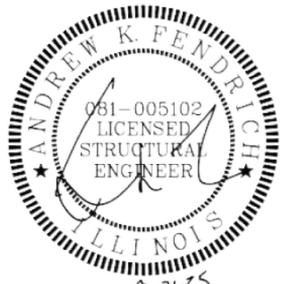


NOTE: SPECIAL INSPECTION REQUIRED FOR FIELD WELDS

B CONNECTION DETAIL
(4 PLACES) N.T.S.



C WELDING DETAIL
N.T.S.



NOTE: SPECIAL INSPECTION REQUIRED FOR HIGH STRENGTH BOLTS

NOTES :

GENERAL :
- SIGN DESIGN IS BASED ON ADEQUATE EXISTING SUPPORT ELEMENTS.
- PROVIDE ISOLATION OF DISSIMILAR MATERIALS.
- COAT ALUMINUM IN CONTACT WITH CONCRETE WITH ZINC RICH PAINT.
- PROVIDE FULLY WELDED END CAPS AT EXPOSED OPEN ENDS OF STEEL / ALUM. TUBES, MATCH THICKNESS LIKE FOR LIKE.
- SLOPE TOP OF EXPOSED FOOTING AWAY FROM DIRECT BURIAL POSTS
- ALL EXPOSED STEEL TO BE PRIMED & PAINTED (POWDER COAT AS AN OPTION) OR ALTERNATIVELY USE GALVANIZED STEEL.

STEEL :

DESIGN AND FABRICATION ACCORDING TO 2018 IBC
- PLATE, ANGLE, CHANNEL TEE: ASTM A36
- WIDE FLANGE: ASTM A992
- ROUND PIPE: ASTM A53 GRADE B OR EQUIVALENT.
- HSS ROUND, SQUARE, AND RECTANGULAR TUBE: ASTM A500 GRADE B OR EQUIVALENT.
- STAINLESS STEEL ROUND, SQUARE, AND RECTANGULAR TUBE: ASTM A276 T304 OR EQUIVALENT.
- ALL ANCHORS BOLTS SHALL BE: ASTM F1554 OR ASTM F593 T304 U.N.O.
- ALL STEEL MACHINED BOLTS SHALL BE: ASTM A307, A325 OR A449 U.N.O.
- ALL STAINLESS STEEL MACHINED BOLTS SHALL BE: ASTM F593 T304 U.N.O.
- ALL BOLTS TO BE ZINC COATED: ASTM B633
- DEFORMED REINFORCING REBAR: ASTM A615 GRADE 60.

STEEL

DESIGN AND FABRICATION ACCORDING TO AWS D1.1. / D1.3 & D1.6
- AWS CERTIFICATION REQUIRED FOR ALL STRUCTURAL WELDERS.

ALUMINUM :

DESIGN AND FABRICATION ACCORDING TO 2015 ALUM. DESIGN MANUAL

PLATES, ANGLES, CHANNELS, TEE, AND SQUARE TUBING: ALUMINUM
- ALLOY 6061 - T6 WITH 0.098 LBS PER CUBIC INCH.

ALUMINUM

DESIGN AND FABRICATION ACCORDING TO AWS D1.2. ALL WELDING IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS A.5.10. FILLER ALLOYS PER TABLES M.9.1 & M.9.2 OF 2015 ALUMINUM DESIGN MANUAL.

WELDING :
- WELD SIZE (LEG LENGTH) SHALL BE EQUAL TO THE THICKNESS OF THE THINNEST MEMBER AT THE JOINT, UNLESS NOTED OTHERWISE.
- E70 XX ELECTRODE FOR SMAW PROCESS.
- E70S XX ELECTRODE FOR GMAW PROCESS.
- ER7 XX ELECTRODE FOR GTAW PROCESS.
- E70T XX ELECTRODE FOR FCAW PROCESS.

ALL WELDS SHALL BE MADE WITH A FILLER METAL THAT CAN PRODUCE WELDS THAT HAVE A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20FT-LB AT ZERO 0° AS DETERMINED BY THE APPROPRIATE AWS A5 CLASSIFICATION TEST METHOD OR MFG'S. CERTIFICATION.

ANCHORS :
- BRAND NAME APPROVED ANCHORS SPECIFIED ON PLANS MAY BE SUBSTITUTED BY APPROVED EQUAL.

FENDRICH ENGINEERING, INC.
305 EAST MONROE STREET
SPRINGFIELD, IL. 62701
FIRM LICENSE NO.
184.001794-0006
062.049201

SHEET TITLE:

HOLIDAY INN EXPRESS BLADE SIGN

DRN BY: B.B.	DATE LAST REVISED: Aug 20, 2025	PROJECT JOB # : JTS_ 182525_Holiday Inn Express_Lake Street_Oak Park_IL.dwg				
CHK BY: T.J.	PROJ. START DATE: Aug. 14, 2025	REV. NO.	REV. DATE	REVISED BY	PROJECT LOCATION : HOLIDAY INN EXPRESS 1140 LAKE STREET OAK PARK, IL	SHEET #
REV BY: T.J.	SCALE: AS SHOWN	1	--/--/--	---		1 OF 1
PLOTTED BY: Michelle ON 8/20/2025 2:09:49 PM		2	--/--/--	---		


WOOLWORTH'S
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WARDS
Baker's
Shoes
NO PARKING