



City of Napoleon, Ohio

Zoning Department

255 West Riverview Avenue, P.O. Box 151

Napoleon, OH 43545

Mark B. Spiess, Senior Engineering Technician / Zoning Administrator

Telephone: (419) 592-4010 Fax: (419) 599-8393

www.napoleonohio.com

COMMERCIAL PERMIT

Issued Date: September 28, 2018

Expiration Date: September 28, 2019

Permit Number: P-18-180

Job Location: 590 Bonaparte Dr

Owner: Bhavani Hospitality
1068 Hotel Dr
Defiance, OH 43512

Contractor: A Team Sign Builders
419-819-9763

Zone: C-4 Planned Commercial

Set Backs: Principle Building

Front: None Rear: None Side: None

Comments:

6' 5 5/8" x 7' 8 3/4" Post Sign

Permit Type: Sign

Fee: \$35.00

Status: Paid

Amount Due: \$0.00

Mark B. Spiess

Sr. Eng. Tech / Zoning Admin.



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7-18-180

APPLICATION FOR SIGN PERMIT

LOCATION OF PROPERTY: 590 Bonaparte DR

OWNER NAME: Bhavani Hospitality PHONE: 1 (419) 592-5599

OWNER ADDRESS: 1068 Hotel DR Defiance, OH 43512

CONTRACTOR NAME: A Team Sign Builders PHONE: 419-819-9763

IS CONTRACTOR REGISTERED WITH THE CITY OF NAPOLEON? ☒ YES ☐ NO

SIGN INFORMATION

TYPE: ☒ POST ☐ WALL ☐ GROUND ☐ AWNING

DIMENSIONS: 6'5 5/8"x 7'8 3/4" = TOTAL S.F. 50

** PLEASE INCLUDE ANY AND ALL SITE PLANS AND PLANS OF ABOVE SIGNS.

FEES: 35

\$35.00 BASE UP TO 50 S.F. OF SIGN, PLUS \$0.20 PER ADDITIONAL S.F., NOT TO EXCEED \$150.00 (100-1700-46610)

\$5.00 FLAT FEE FOR TEMPORARY SIGNS, TEMPORARY SPECIAL EVENT SIGNS, AND PORTABLE SIGNS OTHER THAN THOSE EXEMPT FROM FEE. (SEE BELOW)

NO FEE REQUIRED FOR TEMPORARY AND EASILY REMOVABLE 1ST AMENDMENT SIGNS, OR SIGNS RELATED TO RELIGIOUS OR CHARITABLE CAUSES OR EVENTS.

ESTIMATED CONSTRUCTION COST \$ 6916

APPLICANT SIGNATURE Scott Mellinger LN

6916
DATE

Building/Zoning Office Use Only

Batch # _____ Check # _____ Date _____



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APPLICANT SIGNATURE DATE 6916

Building/Zoning Office Use Only		
Batch #	Check #	Date



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Building/Zoning Office Use Only

Batch # Check # Date



OH593
COMFORT INN & SUITES
590 BONAPARTE DRIVE
NAPOLEON, OH 43545



APPROVAL BOX - PLEASE INITIAL						
CUSTOMER APPROVAL			Date			
NOTE: Elevation drawings are for customer approval only, drawings are not to be used as any installation guide, all dimensions must be verified before installation.						
Customer:	COMFORT INN & SUITES	Date:	29AUG18	Prepared By:	SC	Note: Color output may not be exact when viewing or printing this drawing. All colors used are PMS or the closest CMYK equivalent. If these colors are incorrect, please provide the correct PMS match and a revision to this drawing will be made.
Location:	NAPOLEON, OH	File Name:	170109 - NAPOLEON, OH		Eng:	
				persona SIGNS LIGHTING IMAGE		DISTRIBUTED BY SIGN UP COMPANY 700 21st Street Southwest PO Box 210 Watertown, SD 57201-0210 1.800.843.9888 • www.personasigns.com



OH593
COMFORT INN & SUITES
590 BONAPARTE DRIVE
NAPOLEON, OH 43545

EXISTING SIGNS:

- 1 EXISTING 30" CHANNEL LETTERS
- 2 EXISTING 30" CHANNEL LETTERS
- 3 EXISTING 7' 2" X 6' 6" PYLON @ 14' OAH

PROPOSED SIGNS:

- 1 20" SET OF CH. LETTERS (STACKED)
- 2 20" SET OF CH. LETTERS (STACKED)
- 3 CR-50: 7' 8-3/4" X 6' 5-5/8" PYLON @ 14' OAH



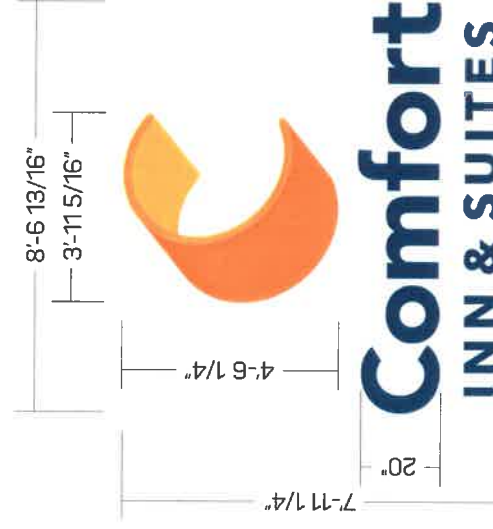
APPROVAL BOX - PLEASE INITIAL			
CUSTOMER APPROVAL		Date	
NOTE: Elevation drawings are for customer approval only, drawings are not to be used as any installation guide, all dimensions must be verified before installation.			
Customer:	COMFORT INN & SUITES	Date:	29AUG18
Location:	NAPOLEON, OH	Prepared By:	SC
		File Name:	170109 - NAPOLEON, OH
		Eng:	-
		Note: Color output may not be exact when viewing or printing this drawing. All colors used are PMS or the closest CMYK equivalent. If these colors are incorrect, please provide the correct PMS match and a revision to this drawing will be made.	
		persona SIGNS LIGHTING IMAGE	
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BEFORE PICTURE



PROPOSED SIGNAGE



WALL SIGN DETAIL
SCALE: 1/4" = 1'-0"

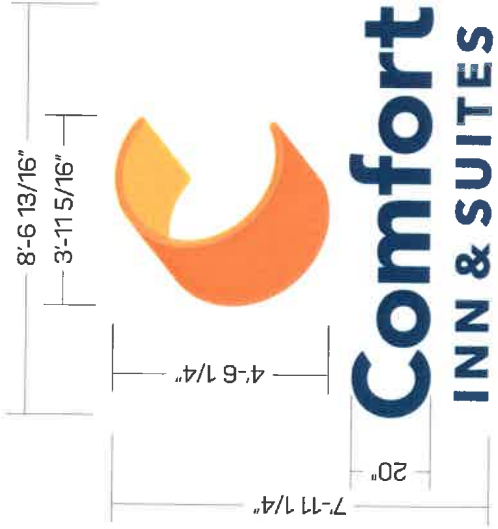
WALL SIGN DETAIL SCALE: 1/4" = 1'-0"		APPROVAL BOX - PLEASE INITIAL	
		CUSTOMER APPROVAL	Date
NOTE: Elevation drawings are for customer approval only, drawings are not to be used as any installation guide, all dimensions must be verified before installation.			
Customer:	COMFORT INN & SUITES	Date:	29AUG18
Location:	NAPOLEON, OH	Prepared By:	SC
		Note: Color output may not be exact when viewing or printing this drawing. All colors used are PMS, or the closest CMYK equivalent. If these colors are incorrect, please provide the correct PMS match and a revision to this drawing will be made.	
		Eng: -	
		File Name: 170109 - NAPOLEON, OH	
		PERSONA SIGNS LIGHTING IMAGE DISTRIBUTED BY SIGN UP COMPANY 700 21st Street Southwest PO Box 210 Watertown, SD 57201-0210 1.800.843.9888 • www.personasigns.com	



BEFORE PICTURE



PROPOSED SIGNAGE



WALL SIGN DETAIL
SCALE: 1/4" = 1'-0"

APPROVAL BOX - PLEASE INITIAL		
CUSTOMER APPROVAL		Date

NOTE: Elevation drawings are for customer approval only, drawings are not to be used as any installation guide, all dimensions must be verified before installation.

Customer:	COMFORT INN & SUITES	Date:	29AUG18	Prepared By:	SC	Note: Color output may not be exact when viewing or printing this drawing. All colors used are CMYK or the closest CMYK equivalent. If these colors are incorrect, please provide the correct PMS match and a revision to this drawing will be made.
Location:	NAPOLEON, OH	File Name:	170109 - NAPOLEON, OH	Eng:	-	

persona
SIGNS | LIGHTING | IMAGE

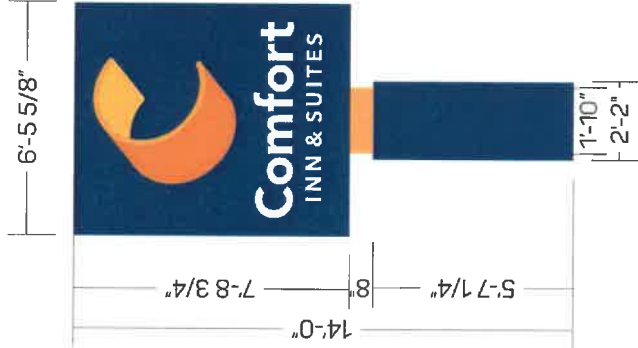
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BEFORE PICTURE



PROPOSED SIGNAGE



CR-50 PYLON DETAIL
SCALE: 3/16" = 1'-0"

APPROVAL BOX - PLEASE INITIAL		
CUSTOMER APPROVAL		Date

NOTE: Elevation drawings are for customer approval only, drawings are not to be used as any installation guide, all dimensions must be verified before installation.

Customer:	COMFORT INN & SUITES	Date:	29AUG18	Prepared By:	SC	Note: Color output may not be exact when viewing or printing this drawing. All colors used are PMS or the closest CMYK equivalent. If these colors are incorrect, please provide the correct PMS match and a revision to this drawing will be made.
Location:	NAPOLEON, OH	File Name:	170109 - NAPOLEON, OH	Eng:	-	

persona

SIGNS | LIGHTING | IMAGE

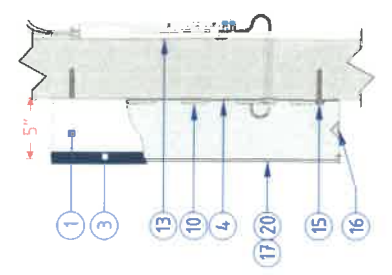
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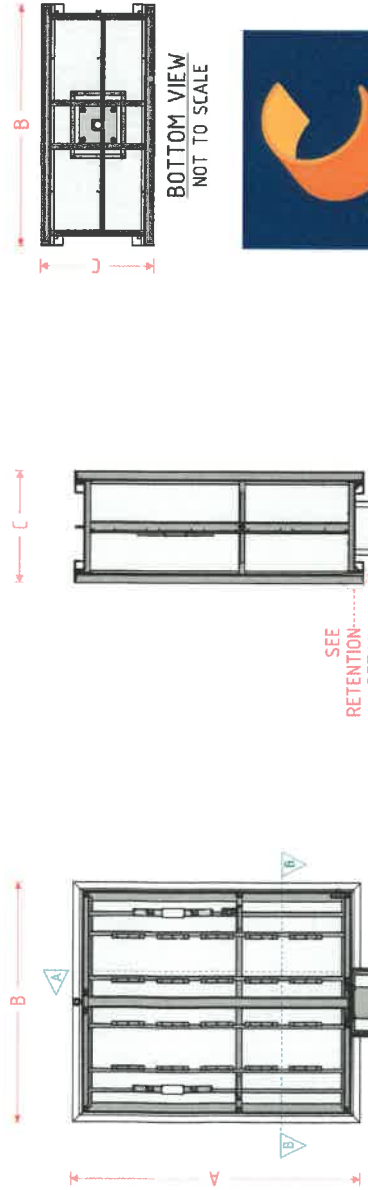


REMOTE LED CHANNEL
LETTER PROFILE
NOT TO SCALE

COMFORT INN & SUITES STACKED CHANNEL LETTER DIMENSIONS						
LETTER "C" HEIGHT	LETTER "I" HEIGHT	LOGO HEIGHT	LOGO LENGTH	OVERALL HEIGHT	OVERALL LENGTH	BOXED SQUARE FOOTAGE
A	B	C	D	E	F	
18"	7 1/16"	4'-0 13/16"	3'-6 5/8"	7'-1 3/4"	7'-8 9/16"	55.12
20"	8 9/16"	4'-6 1/4"	3'-11 5/16"	7'-11 1/4"	8'-6 13/16"	68.05
24"	10 1/4"	5'-5 1/8"	4'-8 13/16"	9'-6 5/16"	10'-3 7/16"	97.99
30"	1'-0 7/8"	6'-9 3/8"	5'-11"	11'-0 15/16"	12'-0 1/4"	153.11
36"	1'-3 7/16"	8'-1 5/8"	7'-1 3/16"	14'-3 1/2"	15'-5 1/8"	220.48
42"	1'-6"	9'-5 15/16"	8'-3 7/16"	16'-8 1/16"	18'-0"	300.09
48"	1'-8 9/16"	10'-10 3/16"	9'-5 5/8"	19'-0 11/16"	20'-6 13/16"	391.96
						100.26

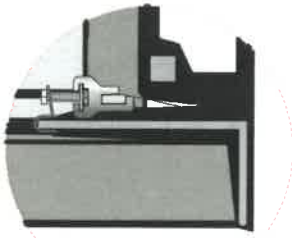
- CHANNEL LETTER INTERIORS TO BE PAINTED REFLECTIVE WHITE
- LOGO'S UP TO 5'-6" TO BE CHANNEL LETTER CONSTRUCTION. LOGO'S 5'-6" AND LARGER MILLIKEN MP5 EXTRUSION CONSTRUCTION.
- CHANNEL LETTER SETS 36" AND SMALLER TO HAVE 1/8" ACRYLIC FACE. CHANNEL LETTERS SETS LARGER THAN 36" TO HAVE 3/16" ACRYLIC
- ELECTRICAL: (1) 20A/120V CIRCUITS
- U.L. LISTED

persona
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SPECIFICATIONS:

- DESIGN FACTOR: TO BE DETERMINED
- REVERSE ANGLE IRON FRAME CONSTRUCTION
- BLEED FACES
- EXTERIOR FINISH:
- CABINET: PAINT PANTONE® PLUS SERIES 2757 C BLUE, SATIN FINISH
- REVEAL: PAINT PANTONE® PLUS SERIES 1375 C GOLD, SATIN FINISH
- POLE COVER: PAINT PANTONE® PLUS SERIES 2757 C BLUE, SATIN FINISH
- INTERIOR FINISH: PAINT REFLECTIVE WHITE
- U.L. LISTED
- DISCONNECT SWITCH LOCATED AT END OF CABINET
- .063" ALUMINUM SKIN
- WEDGE CLAMP
- ACCESS IN ENDS OF CABINET FOR SERVICE
- GE 7100K WHITE LED'S AS REQUIRED
- 3M PANAGRAPHS III FLEXIBLE FACE
- DIGITALLY PRINTED DECORATION (1ST SURFACE)
- PLATE/MATCH PLATE INSTALLATION
- GE 3200K WHITE LED CONTOUR INSTALLED INSIDE CABINET REVEAL CHANNEL, BENEATH ALUMINUM COVER, ON SIDES AND BOTTOM TO ILLUMINATE CABINET AND REVEAL.



FRAME & LAMP DETAIL
NOT TO SCALE

CROSS SECTION A-A
NOT TO SCALE

GRAPHIC DETAIL
NOT TO SCALE

RETENTION DETAIL
NOT TO SCALE

ITEM #	HEIGHT	LENGTH	DEPTH	PLATE SIZE	BOLT PATTERN	MAX. PIPE/TUBE SIZE	CENTER TUBE SIZE	PERIMETER ANGLE	ELECTRICAL	BOXED SQUARE FOOTAGE
COMIS-4X4DFFMR18SIGN-S	4'-10 1/2"	4'-1"	30"	3/4" X 10" X 10"	8" X 8"	8" / 6"	3" X 3" X 1/8"	5" X 2 1/2" X 3/16"	(1) 20A/120V CIRCUIT	19.90
COMIS-6X5DFFMR18SIGN-S	6'-5 1/2"	5'-4 7/8"	30"	3/4" X 10" X 10"	8" X 8"	8" / 6"	3" X 3" X 3/16"	5" X 2 1/2" X 3/16"	(1) 20A/120V CIRCUIT	34.92
COMIS-7X6DFFMR18SIGN-S	7'-8 3/4"	6'-5 5/8"	30"	3/4" X 12" X 12"	10" X 10"	10" / 8"	4" X 4" X 3/16"	5" X 2 1/2" X 3/16"	(1) 20A/120V CIRCUIT	50.01

Customer:

COMFORT INN & SUITES

Date: 08/16/18
Prepared By: AP
Modeled By: RS

Note: Color output may not be exact when viewing or printing this drawing. All colors used are PMS or the closest CMYK equivalent. If these colors are incorrect, please provide the correct PMS match and a revision to this drawing will be made.

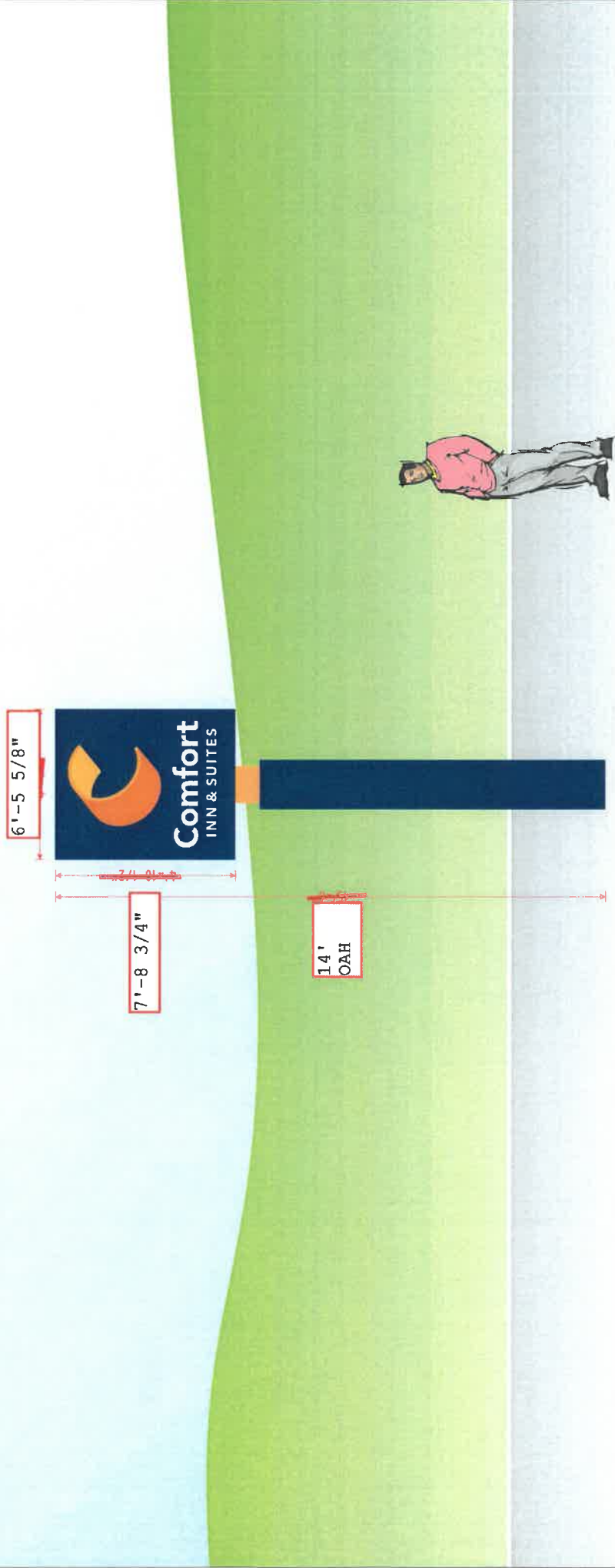
Revision: 2

COMIS REGENT MID-RISE SIGNS

persona

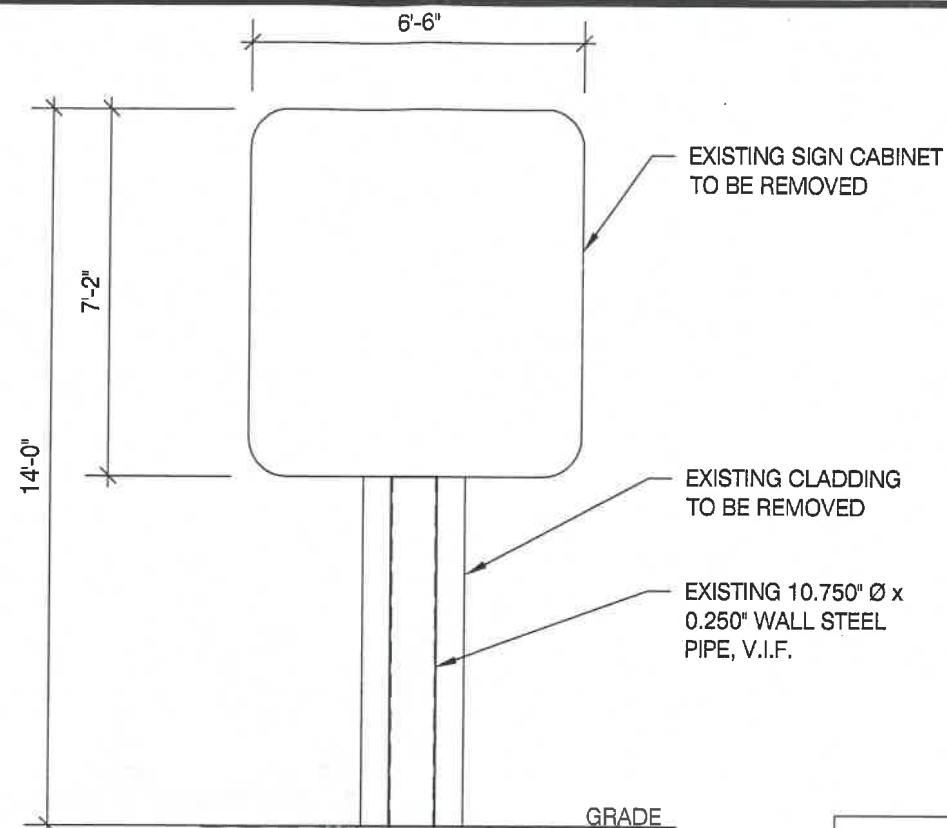
SIGNS | LIGHTING | IMAGE

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700 21st Street Southwest
PO Box 210
Watertown, SD 57201-0210
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GRAPHIC DETAIL
SCALE: 1/4" = 1'-0"

Customer: COMFORT INN & SUITES	Date: 08/16/18	Prepared By: AP	Modeled By: RS	persona SIGNS LIGHTING IMAGE	DISTRIBUTED BY SIGN UP COMPANY 700 21st Street Southwest PO Box 210 Watertown, SD 57201-0210 1.800.843.9888 • www.personasigns.com
	Item Number: COMIS-4X4OFFMR18SIGN-S	COMIS REGENT MID-RISE SIGNS			
Note: Color output may not be exact when viewing or printing this drawing. All colors used are PMS or the closest CMYK equivalent. If these colors are incorrect, please provide the correct PMS match and a revision to this drawing will be made.				Revision: 2	



EXISTING SIGN ELEVATION

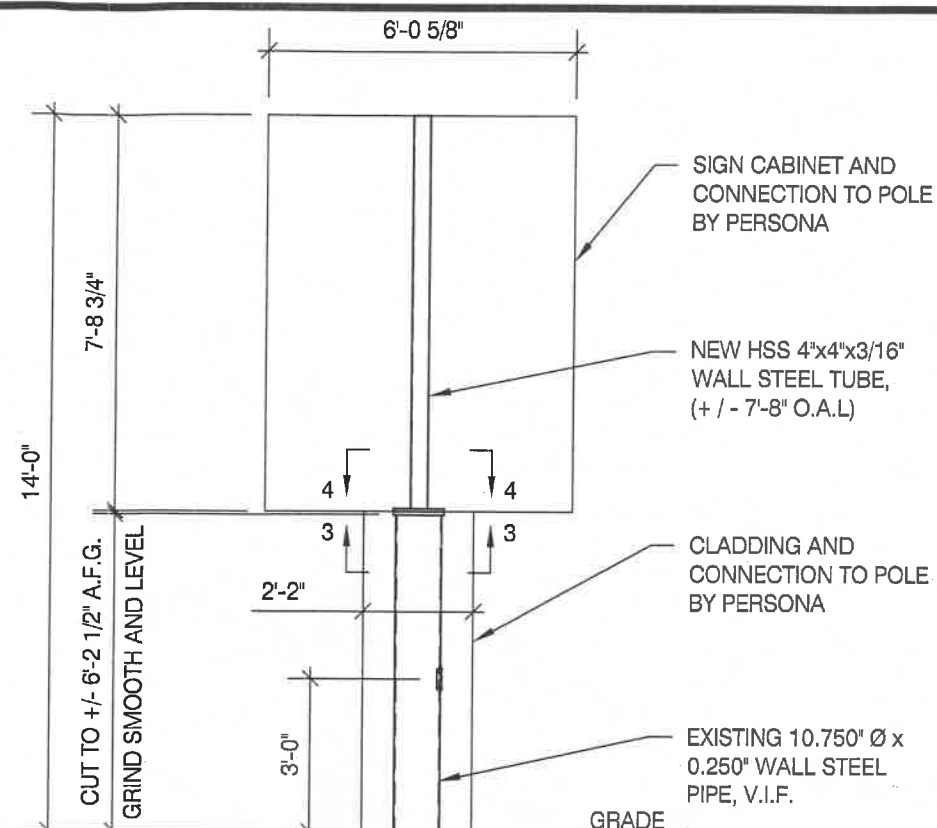
SCALE: N.T.S.

EXISTING SIGN

MOMENT AT GRADE- 11.4 K-FT

1

MOMENT AT GRADE OF THE PROPOSED SIGN IS WITHIN 5% OF THE MOMENT AT GRADE OF THE EXISTING SIGN



PROPOSED SIGN ELEVATION

SCALE: N.T.S.

PROPOSED SIGN

MOMENT AT GRADE- 11.7 K-FT

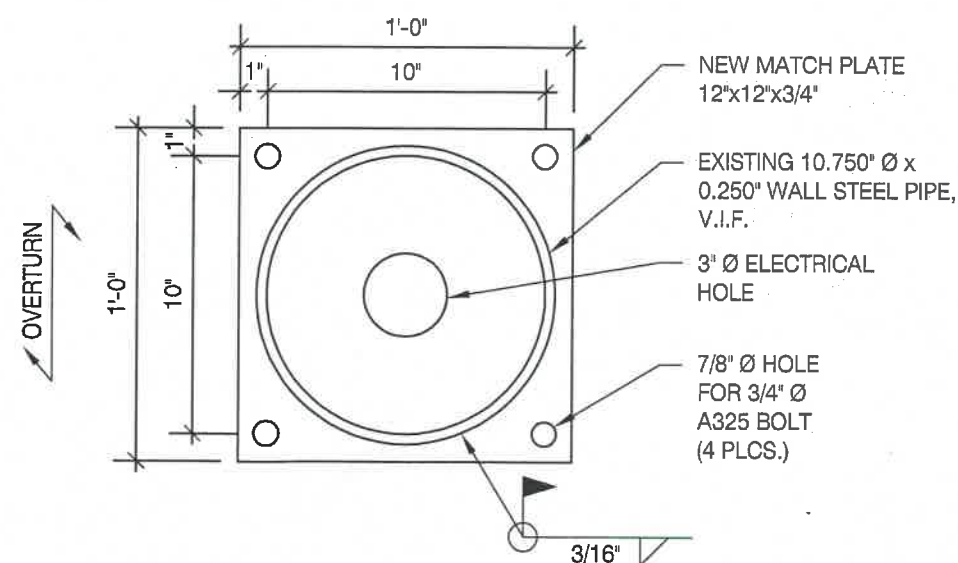
2

NOTES

- 1.) SEE MANUFACTURERS DRAWINGS FOR ADDITIONAL DETAILS AND DIMENSIONS.
- 2.) SIGN CABINET AND CONNECTION BY PERSONA.

- * CLIENT - PERSONA
- * 2017 OHIO BUILDING CODE
- * 115 MPH WIND SPEED, EXP. C
- * (1) POLE

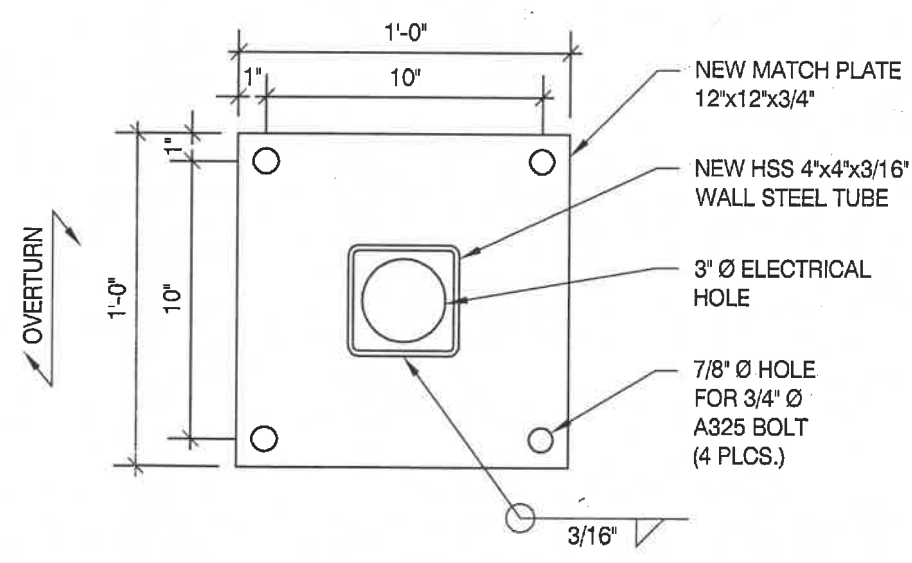
THIS NOTE IS IN REFERENCE TO THE OHIO BUILDING CODE CONFORMANCE LETTER REQUIREMENTS. PURSUANT TO SECTION 105.3.1.1 OF THE OHIO BUILDING CODE, THIS IS TO CERTIFY THAT THE CONSTRUCTION DOCUMENTS FOR THE BELOW REFERENCED PROJECT, BEING SUBMITTED, ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE RULES OF THE BOARD OF BUILDING STANDARDS AND CHAPTERS 3781 AND 3791 OF THE OHIO REVISED CODE.



NEW LOWER MATCH PLATE

SCALE: N.T.S.

3



NEW UPPER MATCH PLATE

SCALE: N.T.S.

4

MBI

michael brady inc.
sign engineering
structural engineering

KNOXVILLE OFFICE

299 WEISGARBER RD.
KNOXVILLE, TENNESSEE
37919

PHONE 865-584-0999
FAX 865-584-5213

PROJECT:

590 BONAPARTE DRIVE, NAPOLEAN, OH 43545

DRAWING TITLE:

COMFORT INN AND SUITES #OH593

DRAWN BY:

DSA

CHECKED BY:

FCM

COMM. NO.

180030.459

DATE:

09/25/18

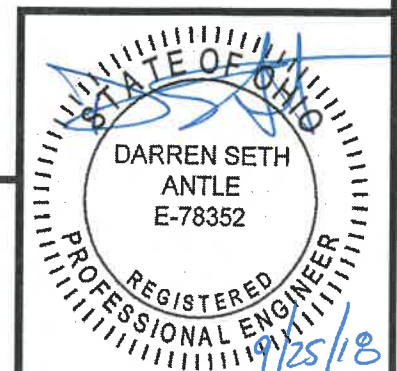
DRAWING NO.

DWG.

1

COA #04657

REV #	DATE	DRAWN BY



WIND DATA										DEFLECTION ANALYSIS							
Building Code	2017 Ohio Building	Importance Factor, I	1.0	Damping Ratio, β	0.005	Deflection Limit Deflection at 0.7*W Deflection Ratio H/60											
Wind Load Criteria	ASCE 7-10	Directionality Factor, K_d ⁽¹⁾	0.85	Natural Frequency, n	0.00 Hz												
Wind Speed, V	115 mph	Topography Factor, K_z	1.0	Gust Effect Factor, G	0.85												
Exposure Category	C	Base Pressure, $p(q)/K_z$	17.3 psf	ASD Wind Load Factor γ ⁽²⁾	0.6												
Wind Pressure Override per Jurisdiction Requirement	0 psf	Notes: (1) Loading values in chart below are based upon average K_z values for each segment. Actual values are calculated on hidden sheet using derived V-M equations. Chart is provided for information purposes only. (2) Wind directionality (K_d) factor is 0.95 for Single Pole (Round) segments instead of 0.85. The C_f value from Fig. 6-21 has been increased by 0.95/0.85 to account for this variation. (3) Wind pressures listed below have already been multiplied by the ASD Wind Load Factor, γ .															
GEOMETRY INPUT ⁽³⁾																	
Monument:		No															
No. of Poles	1	No. of Footings	1														
Section	Location	Type	Height	Width	Horiz. Offset	Area	Top Elev.	Centroid	K_z	C_f	Wind Press.	Support Pole Loads			Footing Loads		
			ft	ft	ft	sq ft	ft	ft			psf	Trib. Factor	Shear kips	Moment k-ft	Trib. Factor	Shear kips	Moment k-ft
1	Base	Single Pole w/ Cabinet	6.83	2.00		13.7	6.8	3.4	0.85	1.59	19.7	1.0	0.3	0.9	1.0	0.3	0.9
2		Single Pole w/ Cabinet	7.17	6.50		46.6	14.0	10.4	0.85	1.73	21.5	1.0	1.0	10.4	1.0	1.0	10.4
3		None				0.0	14.0	14.0	0.85	1.46	18.2	0.0	0.0	0.0	0.0	0.0	0.0
4		None				0.0	14.0	14.0	0.85	1.46	18.2	0.0	0.0	0.0	0.0	0.0	0.0
5		None				0.0	14.0	14.0	0.85	1.46	18.2	0.0	0.0	0.0	0.0	0.0	0.0
6		None				0.0	14.0	14.0	0.85	1.46	18.2	0.0	0.0	0.0	0.0	0.0	0.0
7		None				0.0	14.0	14.0	0.85	1.46	18.2	0.0	0.0	0.0	0.0	0.0	0.0
8		None				0.0	14.0	14.0	0.85	1.46	18.2	0.0	0.0	0.0	0.0	0.0	0.0
9		None				0.0	14.0	14.0	0.85	1.46	18.2	0.0	0.0	0.0	0.0	0.0	0.0
10	Top	None				0.0	14.0	14.0	0.85	1.46	18.2	0.0	0.0	0.0	0.0	0.0	0.0
Overall Height:			14.00 ft			Summation based upon averages above: 1.3 11.4 1.3 11.4 Actual base reactions based upon V-M equations: 1.3 11.4 1.3 11.4											

EXISTING SIGN

SCALE: N.T.S.

EXISTING SIGN
MOMENT AT GRADE- 11.4 K-FT

MOMENT AT GRADE OF THE
PROPOSED SIGN IS WITHIN
5% OF THE MOMENT AT GRADE
OF THE EXISTING SIGN

DESIGN SPECIFICATIONS:

REFER TO SIGN COMPANY'S DRAWINGS FOR MORE DETAILS.
ALL DESIGNS, DETAILING FABRICATION AND CONSTRUCTION SHALL
CONFORM TO:

- 2017 OHIO BUILDING CODE
ACI
AISC
AMERICAN WELDING SOCIETY
LOCAL BUILDING CODES & ORDINANCES

STD. STEEL PIPE SECTION: ASTM A53 GRADE B ($F_y=35$ KSI), U.N.O.
STEEL PIPE SECTION ($> 20"$ Ø): ASTM A252 GRADE 3 ($F_y=42$ KSI MIN.) U.N.O.
HSS ROUND SECTION: ASTM A500 GRADE B ($F_y=42$ KSI) U.N.O.
HSS SQUARE/RECTANGULAR SECTION: ASTM A500 GRADE B ($F_y=46$ KSI)
CONNECTION BOLTS: ASTM A325
THREADED RODS: ASTM A193 GRADE B7
STEEL ANGLES, CHANNELS, STRUCTURAL SHAPES & PLATES ASTM A36
THE CONTRACTOR (INSTALLER) IS RESPONSIBLE FOR THE MEANS &
METHODS OF CONSTRUCTION IN REGARDS TO JOBSITE SAFETY.
NO FIELD HEATING FOR BENDING OR CUTTING OF STEEL SHALL BE
ALLOWED WITHOUT THE ENGINEER'S APPROVAL.
WELDING ELECTRODES: E70XX
THIS ENGINEER DOES NOT WARRANT THE ACCURACY OF DIMENSIONS
FURNISHED BY OTHERS.
ALL EXPOSED STEEL SHALL BE PAINTED WITH AN ENAMEL PAINT TO INHIBIT
CORROSION.
THIS DESIGN IS FOR THE INDICATED ADDRESS ONLY, AND SHOULD NOT BE
AT OTHER LOCATIONS WITHOUT WRITTEN PERMISSION OF THE ENGINEER
DESIGN OF DETAILS AND STRUCTURAL MEMBERS NOT SHOWN. BY OTHERS

NOTES

- 1.) SEE MANUFACTURERS DRAWINGS FOR ADDITIONAL DETAILS AND DIMENSIONS
- 2.) SIGN CABINET AND CONNECTION BY PERSONA.

- * CLIENT - PERSONA
* 2017 OHIO BUILDING CODE
* 115 MPH WIND SPEED, EXP. C
* (1) POLE

WIND DATA						DEFLECTION ANALYSIS											
Building Code	2017 Ohio Building	Importance Factor, I	1.0	Damping Ratio, β	0.005	Deflection Limit	H/60										
Wind Load Criteria	ASCE 7-10	Directionality Factor, $K_d^{(2)}$	0.85	Natural Frequency, n_s	2.41 Hz	Deflection at 0.7"W	0.64 in										
Wind Speed, V	115 mph	Topography Factor, K_z	1.0	Gust Effect Factor, G	0.85	Deflection Ratio	H/263										
Exposure Category	C	Base Pressure, $p_{(0)}/K_z$	17.3 psf	ASD Wind Load Factor, $\psi^{(3)}$	0.6												
Wind Pressure Override per Jurisdiction Requirement	0 psf																
Notes: (1) Loading values in chart below are based upon average K_z values for each segment. Actual values are calculated on hidden sheet using derived V-M equations. Chart is provided for information purposes only. (2) Wind directionality (K_d) factor is 0.95 for Single Pole (Round) segments instead of 0.85. The C_f value from Fig. 6-21 has been increased by 0.95/0.85 to account for this variation. (3) Wind pressures listed below have already been multiplied by the ASD Wind Load Factor, ψ .																	
GEOMETRY INPUT ⁽¹⁾																	
Monument:		No															
No. of Poles	1	No. of Footings	1														
Section	Location	Type	Height	Width	Horiz. Offset	Area	Top Elev.	Centroid	K_t	C_f	Wind Press.	Support Pole Loads			Footing Loads		
			ft	ft	ft	sq ft	ft	ft			psf	Trib. Factor	Shear kips	Moment k-ft	Trib. Factor	Shear kips	Moment k-ft
1	Base	Single Pole w/ Cabinet	6.27	2.17		13.6	6.3	3.1	0.85	1.57	19.5	1.0	0.3	0.8	1.0	0.3	0.8
2		Single Pole w/ Cabinet	7.73	6.47		50.0	14.0	10.1	0.85	1.71	21.4	1.0	1.1	10.8	1.0	1.1	10.8
3		None				0.0	14.0	14.0	0.85	1.46	18.2	0.0	0.0	0.0	0.0	0.0	0.0
4		None				0.0	14.0	14.0	0.85	1.46	18.2	0.0	0.0	0.0	0.0	0.0	0.0
5		None				0.0	14.0	14.0	0.85	1.46	18.2	0.0	0.0	0.0	0.0	0.0	0.0
6		None				0.0	14.0	14.0	0.85	1.46	18.2	0.0	0.0	0.0	0.0	0.0	0.0
7		None				0.0	14.0	14.0	0.85	1.46	18.2	0.0	0.0	0.0	0.0	0.0	0.0
8		None				0.0	14.0	14.0	0.85	1.46	18.2	0.0	0.0	0.0	0.0	0.0	0.0
9		None				0.0	14.0	14.0	0.85	1.46	18.2	0.0	0.0	0.0	0.0	0.0	0.0
10	Top	None				0.0	14.0	14.0	0.85	1.46	18.2	0.0	0.0	0.0	0.0	0.0	0.0
Overall Height:			14.00 ft														
Summation based upon averages above:												1.3	11.7		1.3	11.7	
Actual base reactions based upon V-M equations:												1.3	11.7		1.3	11.7	

SUPPORT POLE DESIGN SUMMARY		MATERIAL = STEEL															
Base Elev ft	Section	Axis	Required Strength Values (ASD)				Allowable Strength Values (ASD)				Unity Ratios				Interaction Ratios		Status
			V _r	M _r	T _r	P _r	V _a	M _a	T _a	P _a	V _r /V _c	M _r /M _c	T _r /T _c	P _r /P _c	P-M	P-M-V-T	
			kips	kia-ft	kia-ft	kias	kips	kia-ft	kia-ft	kias							
0.00	10.75 Ø x 0.25 Wall	Strong	1.3	11.7	1.5	0.9	53.8	44.9	42.3	64.9	2.5%	26.0%	3.5%	1.3%	27.3%	0.0%	
6.27	HSSX4X3/16	Strong	1.1	4.2	1.4	0.6	22.3	8.4	7.0	49.4	4.8%	49.5%	19.9%	1.2%	50.7%	0.0%	
0.00	None	Strong	1.3	11.7	1.5	0.9	0.0	0.0	0.0	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
0.00	None	Strong	1.3	11.7	1.5	0.9	0.0	0.0	0.0	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
0.00	None	Strong	1.3	11.7	1.5	0.9	0.0	0.0	0.0	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
0.00	None	Strong	1.3	11.7	1.5	0.9	0.0	0.0	0.0	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
0.00	None	Strong	1.3	11.7	1.5	0.9	0.0	0.0	0.0	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
0.00	None	Strong	1.3	11.7	1.5	0.9	0.0	0.0	0.0	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
0.00	None	Strong	1.3	11.7	1.5	0.9	0.0	0.0	0.0	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
0.00	None	Strong	1.3	11.7	1.5	0.9	0.0	0.0	0.0	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
0.00	None	Strong	1.3	11.7	1.5	0.9	0.0	0.0	0.0	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
0.00	None	Strong	1.3	11.7	1.5	0.9	0.0	0.0	0.0	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

ELEMENT DESIGN LOCATIONS, LOADS AND DISPLACEMENTS																	
Element	Elev. ft	Type	V _r	M _r	T _r	P _r	0.7*θ	0.7*δ	Element	Elev. ft	Type	V _r	M _r	T _r	P _r	0.7*θ	0.7*δ
			kips	kip-ft	kip-ft	kips	radians	in				kips	kip-ft	kip-ft	kips	radians	in
1	0.00	Base Plate	1.3	11.7	1.5	0.9	0.0	0.0	3	0.00	Match Plate 2	1.3	11.7	1.5	0.9	0.000	0.00
2	6.27	Match Plate 1	1.1	4.2	1.4	0.6	0.0	0.1	4	0.00	Torsion Tube	1.3	11.7	1.5	0.9	0.000	0.00

PLATE DESIGN SUMMARY																
Type		Plate Dimensions				Number	Bolts						Embed in Caisson / Vertical Slab	Weld		Status
		N	B	D	t		d _b	N _{edge}	B _{edge}	Circle Diameter	Material	Embed in		Size	Gussets	
		<i>in</i>	<i>in</i>	<i>in</i>	<i>in</i>		<i>in</i>	<i>in</i>	<i>in</i>	<i>in</i>		<i>in</i>		<i>in</i>	<i>in</i>	
☐	Rectangular Base Plate															
☐	Circular Base Plate															
☒	Match Plate 1 (Lower)	12	12	--	0.75	4	0.75	1	1	--	A325	--	--	0.188	No	OK
☒	Match Plate 1 (Upper)	12	12	--	0.75	4	0.75	1	1	--	A325	--	--	0.188	No	OK
☐	Match Plate 2 (Lower)															
☐	Match Plate 2 (Upper)															

PROPOSED SIGN

SCALE: N.T.S.

PROPOSED SIGN
MOMENT AT GRADE- 11.7 K-FT

THIS NOTE IS IN REFERENCE TO THE OHIO BUILDING CODE CONFORMANCE LETTER REQUIREMENTS.

PURSUANT TO SECTION 105.3.1.1 OF THE OHIO BUILDING CODE, THIS IS TO CERTIFY THAT THE CONSTRUCTION DOCUMENTS FOR THE BELOW REFERENCED PROJECT, BEING SUBMITTED, ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE RULES OF THE BOARD OF BUILDING STANDARDS AND CHAPTERS 3781 AND 3791 OF THE OHIO REVISED CODE.

MBI

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sign engineering
structural engineering

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PROJECT: 590 BONAPARTE DRIVE, NAPOLEAN, OH 43545

DRAWING TITLE:

COMFORT INN AND SUITES #OH593

DRAWN BY: DSA	CHECKED BY: FCM	COMM. NO. 180030.459
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COA #04657

DATE: 09/25/18

REV #	DATE	DRAWN BY

DRAWING NO.

DWG.

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