

# **COMOX VALLEY RAIDERS SCOREBOARD PROJECT**

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## WHO ARE THE RAIDERS?

The Comox Valley Raiders have proudly been providing football to the Comox Valley since 1988 and cheerleading since 2022. Over the years our organization has grown from one season of tackle football to year-round football and cheerleading. We welcome all children aged 6 to 18 in the Comox Valley and surrounding areas, providing our Valley's youth with opportunities to compete, develop character and learn fair play through football and cheer.



# WHY A NEW SCOREBOARD?

The Comox Valley Raiders club has been flourishing in our community with increasing growth over the last few years. Some recent accomplishments include:

- Our senior team (ages 16-18) has placed second in the province the last three years!
- Our bantam team (ages 14-15) currently hold the BCPFA Provincial title after last year's win!
- Our in-house Peewee league boasts over 70 participants this season!
- Our cheer program, which started in the Fall of '22 has grown to over 50 cheerleaders and we are headed to cheer competition on the mainland this fall!

As our club grows, we feel it is important to enhance the game day experience with a working scoreboard (which we have not had at our field for at least seven years).

The addition of the scoreboard would:

- Promote the recreational experience for football players, cheerleaders and spectators during games.
- Enhance the overall park aesthetics which will help encourage continued growth in our club.
- Contribute to the functionality, vibrancy and enjoyment of the park for all park users
- Better showcase our community when welcoming other teams across the island and lower mainland each weekend during our fall season

# OTHER UPDATES & PROJECT PARTNERS

In addition to adding a scoreboard this project will also include:

- The addition of electricity to the field via a new hydro pole on the north end of the field (near tracks/end of 21<sup>st</sup> St)
- o The addition of an electrical line from the new hydro pole to the tower and scoreboard
- Enhancement of tower by removing broken scoreboard; painting the building; adding new windows and door for better security
- Community businesses and partners to date include:
  - The Rotary Club of Courtenay (major sponsor)
  - GF Electrical Solutions Inc (primary contractor)
  - L.R. Hughes Contracting (project manager)
  - Slegg Building Materials Comox (tower updates)
  - E.B. Horsman & Son (electrical supplies)
  - J.O. Welding & Fab Ltd. (scoreboard beams)
  - Chinook Forest Products (treated pole)
  - Hyland Precast (cement footings)

## **PROJECT TIMELINE**

We anticipate a 12-week timeline for this project, with the timeline beginning with approval from the city to order the scoreboard and ending with the project being completed. Our anticipated completion date, assuming suitable weather would be May 31<sup>st</sup>.

Order scoreboard	8-12 weeks
*Secure permit for electrical work	1-3 weeks
*Install electrical line, add power to the tower and to scoreboard location	1-2 weeks
*Tower updates: remove & disposal of preexisting scoreboard; paint building; add new windows and door	1-2 weeks
*Completion and signing of new agreement between the Raiders & City of Courtenay	3-4 weeks

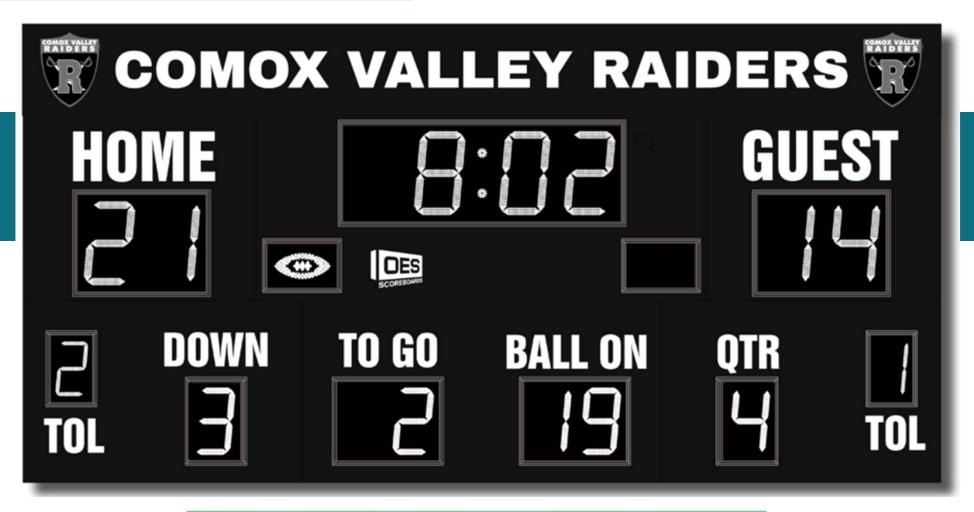
<sup>\*</sup>All items will take place while awaiting delivery of the scoreboard. These items are weather dependent to ensure the best care for the park while work is being completed. Actual dates and times will be arranged with Stu Carmichael with adequate notice.

# **SCOREBOARD LOCATION**



#### SCHEDULE C

# **SCOREBOARD SPECS**



SCOREBOARD	VIDEO DISPLAY	ACCENTS	COLOR NOTES	CONCEPT APPROVAL:
Model: M8020AUCV		Top Ad Panel: 20'W x 2'H	Enclosure: Black	Version: 1
Dimensions: 20'W x 8'H			LEDs: White	Date: June 2024
			Vinyl: White #101	Signature

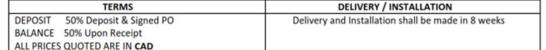
Presented by:	Gerald Ruck	
rieschied by.	Geraid Muck	

# **SCOREBOARD QUOTE**

Billing Rock Advertising Inc. Information 307 - 1066 Hamilton St., Vancouver, BC, V6B 2R9

## **ROCK ADVERTISING INC: OES MODEL 8020AUCV**

QTY	SCOREBOARD DISPLAY DESCRIPTION	UNIT PRICE	PRICE
1	OES Model 8020AUCV Multi Sport Scoreboard  Dimensions: 20' (w) x 8' (h) x 6" (d)  E2" LED digits for TIME & SCORE  Ti" LED digits for DOWNS, BALL ON, YDS TO GO, QTR  Help digits for TOL  R" LED's for Possession Football  Powder Coated Aluminum Enclosure  Vinyl Captions — White Vinyl, or custom color of your choice.  Frosted Lexan digit covers for extra protection  Weight: 789lbs  (1) ISC9000-X9 Wireless Communication Controller  (1) ISC9000 Heavy Duty Carry Case  (1) ISC-REM Handheld Remotes for Start/Stop  Mount: TBD  Unistrut on Back of Scoreboard for Mounting  Sports: Multi  S-Year Warranty  Optional Items	\$16,750.00	\$16,750.00
	NON-Illuminated Ad cabinet  - Dimensions: 20' (w) x 2' (h) x 6" (d)  - NON-Illuminated  - Graphics Included  Cost: \$2,570.00  Freight **Estimate Only**  - London, ON – Courtenay, BC  - Customer responsible to offload from Truck (No Tailgate due to size of crate)  - Approximate Crate Size: TBD  - Insured LTL Freight  - To be re-quoted at time of shipment depending on Model Chosen	Extra-TBD	Extra-TBD
1	Applicable Taxes (5% GST and 7% PST) TOTAL	EXTRA	EXTRA
	TOTAL		\$TBD



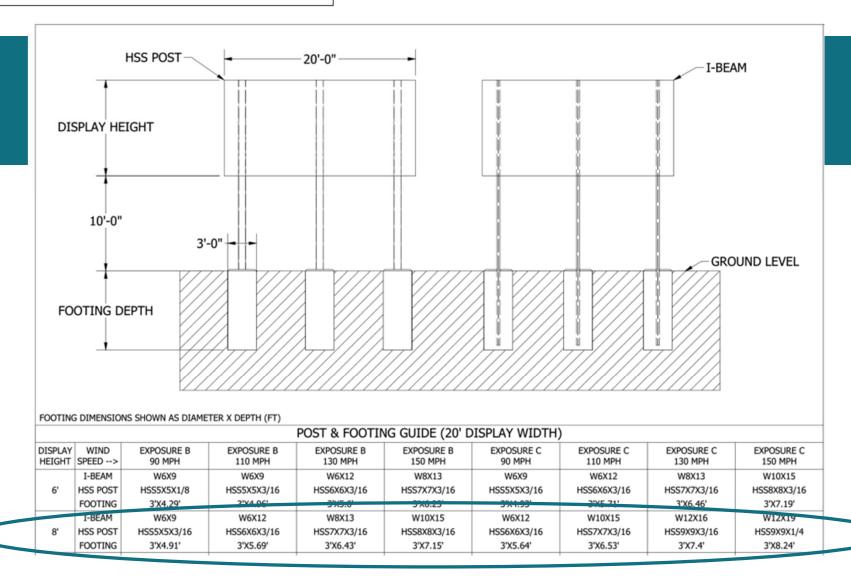


## **SCOREBOARD INSTALLATION INFO**

Presented by: Gerald Ruck

Billing Rock Advertising Inc.
Information 307 – 1066 Hamilton St., Vancouver, BC, V6B 2R9

# OES DETAILED INSTRUCTIONS ATTACHED: EXHIBIT A



# **ELECTRIC QUOTE**

#### **GF Electrical Solutions Inc**

6862 River Ave South Courtenay BC V9J 1N5

+12502181619

info@gfelectricalsolutions.com

www.gfelectricalsolutions.com

GST/HST Registration No.: 782354518



#### Estimate

**ADDRESS** 

City Of Courtenay

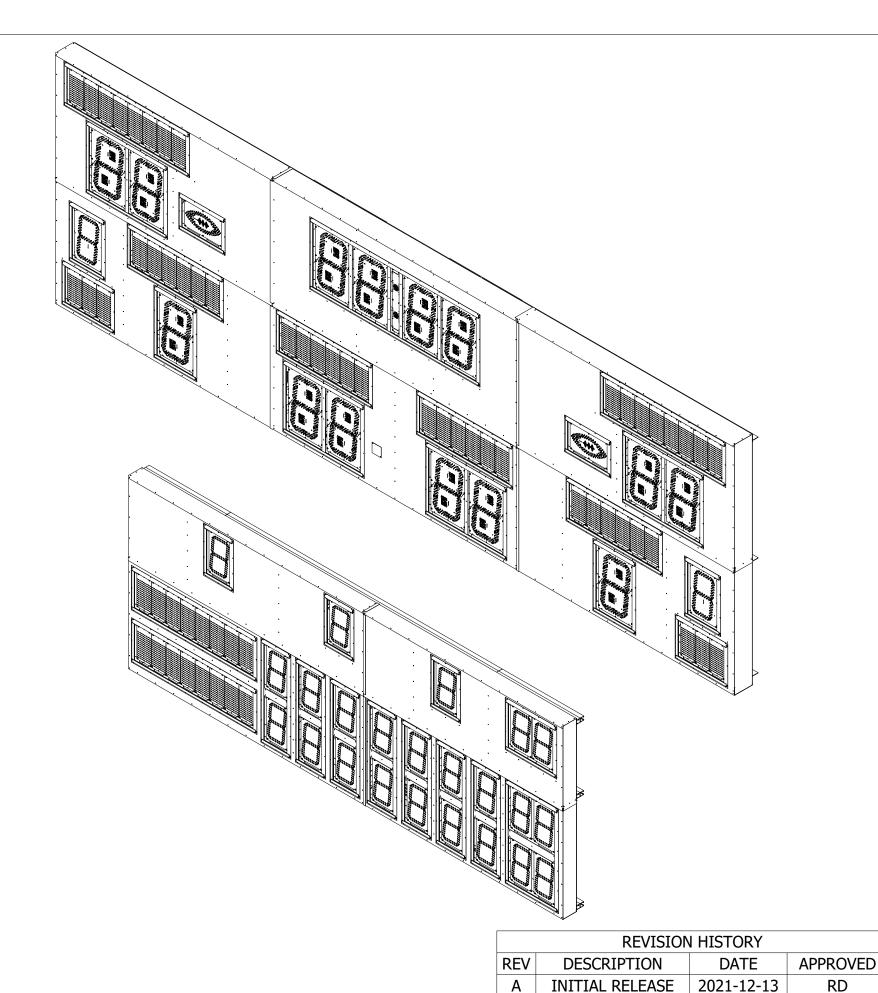
City Of Courtenay

ESTIMATE DATE

1012 20/02/2025

RATE AMOUNT	QTY	DESCRIPTION	ACTIVITY	DATE
15,980.00 15,980.00	1	Bill Moore park . Electrical estimate for proposed new 200 amp single phase pole mounted service complete with underground cable to existing football storage building . 60G John Deere exaction with rubber tracks , Cat 259D with rubber tracks , MOB & DE-MOB, electrical permit , sand and trucking , 35' treated meter pole with required hardware / anchor .	Estimate	20/02/2025
15,980.00		SUBTOTAL		
799.00		GST @ 5%		
\$16,779.00		TOTAL		





В

ADD NOTES

2022-3-1

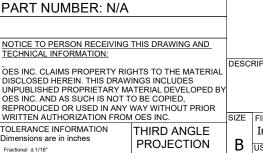
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# OES INSTALLATION DRAWINGS OUTDOOR SCOREBOARDS

CONTENTS	
DOCUMENT	PAGE
MOUNTING TO I-BEAM POSTS	5 2
MOUNTING TO HSS SQUARE POS	STS 3

#### **GENERAL NOTES:**

- 1. THIS PACKAGE CONTAINS GENERIC INSTRUCTIONS FOR COMMON OUTDOOR LIFTING AND MOUNTING METHODS. THESE INSTRUCTIONS MAY NOT BE APPROPRIATE FOR ALL INSTALL CONDITIONS. OES RECOMMENDS THAT YOU CONTACT A PROFESSIONAL STRUCTURAL ENGINEER TO VALIDATE YOUR PLANNED INSTALL METHOD AND HARDWARE FOR YOUR FACILITY PRIOR TO INSTALLATION.
- 2. ALL SCOREBOARD INSTALLATIONS MUST BE PERFORMED BY QUALIFIED PERSONS WITH APPROPRIATE CERTIFICATIONS TO PERFORM THE WORK. THE INSTALLER IS RESPONSIBLE FOR USING APPROPRIATELY RATED EQUIPMENT AND HARDWARE.
- 3. HARDWARE TYPICALLY PROVIDED BY OES IS LISTED IN EACH DRAWING. ADDITIONAL INSTALL HARDWARE MAY BE AVAILABLE ON REQUEST. CONTACT OES FOR MORE INFORMATION.
- 4. FOR SCOREBOARD-SPECIFIC INFORMATION (WEIGHT, POWER REQUIREMENTS, ETC.), REFERENCE THE SCOREBOARD INFO DRAWING.
- 5. FOR GENERAL I-BEAM OR HSS POST SPEC GUIDELINES, REFERENCE THE POST SPEC DOCUMENT FOR YOUR SCOREBOARD'S WIDTH. OES POST SPECIFICATIONS ARE FOR QUOTING AND PLANNING PURPOSES ONLY. MOUNTING POSTS FOR OUTDOOR SCOREBOARDS MUST BE APPROVED BY A PROFESSIONAL ENGINEER.
- 6. FOR CUSTOM INSTALL OPTIONS NOT COVERED IN THIS PACKAGE, CONTACT OES.



B Installat USAGE SCALE NTS

Tel: (5<sup>1</sup>9) 6<sup>5</sup>2-5<sup>8</sup>33 Fax: (5<sup>1</sup>9) 6<sup>5</sup>2-3<sup>7</sup>95 Email: oes@oes-inc.com

4096 Blakie Road, London, ON, N6L 1P7

INSTALL DRAWINGS - OUTDOOR OES ELECTRONIC SCOREBOARDS

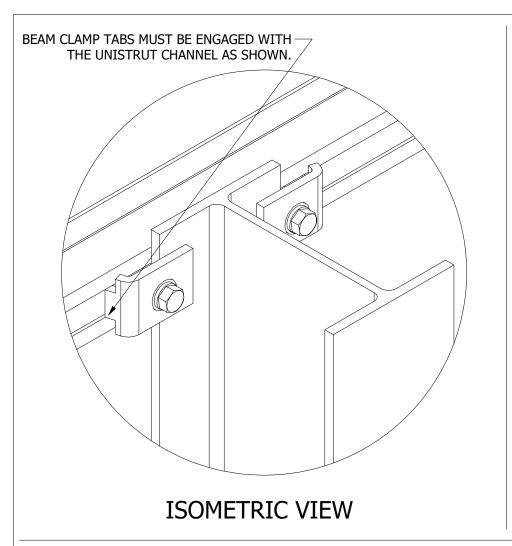
B FILENAME Installation Drawings - Outdoor.idw USAGE

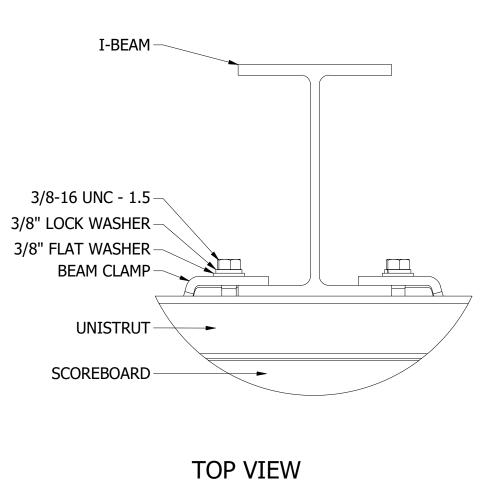
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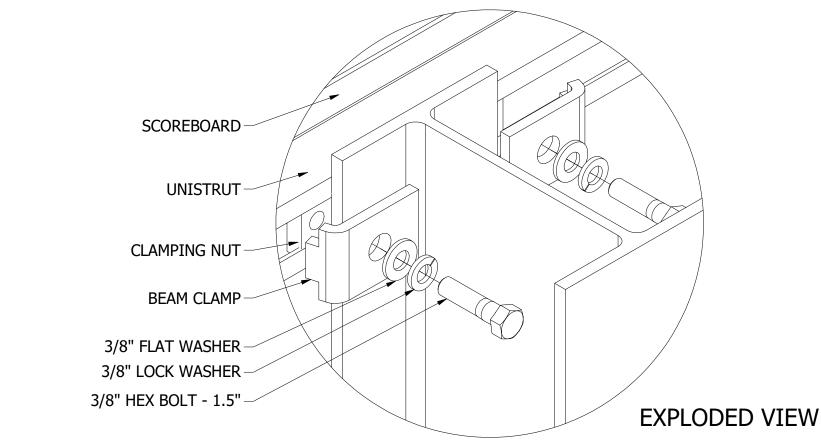
INIT DRAWING DATE

NTS DRAWN BY rdonald PAGE 1 OF 3

mals ± 0.02° cimals ± 0.005° mals ± 0.0005°







#### **OUTDOOR SCOREBOARD INSTALLATION: MOUNTING TO I-BEAM**

- 1. INSERT CLAMPING NUTS INTO THE UNISTRUT. TURN CLAMPING NUTS TO VERTICAL POSITION TO LOCK IN PLACE. CLAMPING NUTS ARE TO BE USED IN PAIRS AT ALL BEAM LOCATIONS ALONG ALL INSTALLED UNISTRUT CHANNELS.
- 2. LIFT SCOREBOARD INTO POSITION. ASSEMBLE THE BEAM CLAMP, WASHERS, AND BOLT. ADJUST CLAMPING NUT LOCATION IF NEEDED TO MOVE THE BOLT CLOSER TO THE I-BEAM.
- 3. TIGHTEN ALL BOLTS TO 19 FT-LBS OF TORQUE.

#### **CLAMPING NUTS, BEAM CLAMPS, WASHERS, AND BOLTS ARE** PROVIDED WITH THE ENCLOSURE BY OES.

#### **IMPORTANT NOTES:**

- 1. DO NOT USE LUBRICANT ON ANY MOUNTING HARDWARE.
- 2. SCOREBOARD MUST BE ATTACHED AT ALL LOCATIONS WHERE AN I-BEAM CROSSES A ROW OF UNISTRUT. I-BEAM CLAMPS MUST BE USED IN PAIRS.
- 3. MAXIMUM FLANGE THICKNESS IS 1/2" FOR BEAM CLAMPS. CONTACT OES FOR MOUNTING OPTIONS IF I-BEAM FLANGES ARE OVER 1/2" THICK.
- 4. I-BEAMS AND FOOTINGS SHOULD BE APPROVED BY A PROFESSIONAL ENGINEER FAMILIAR WITH LOCAL BUILDING CODES. OES-PROVIDED POST SPECIFICATIONS ARE FOR COST ESTIMATION PURPOSES ONLY.



NOTICE TO PERSON RECEIVING THIS DRAWING AND

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THIRD ANGLE

PROJECTION

TOLERANCE INFORMATION

hree Place Decimals ± 0.005



4096 Blakie Road, London, ON, N6L 1P7 Tel: (519) 652-5833 Fax: (519) 652-3795 Email: oes@oes-inc.com

**INSTALL DRAWINGS - OUTDOOR OES ELECTRONIC SCOREBOARDS** 

SIZE FILENAME Installation Drawings - Outdoor.idw B USAGE

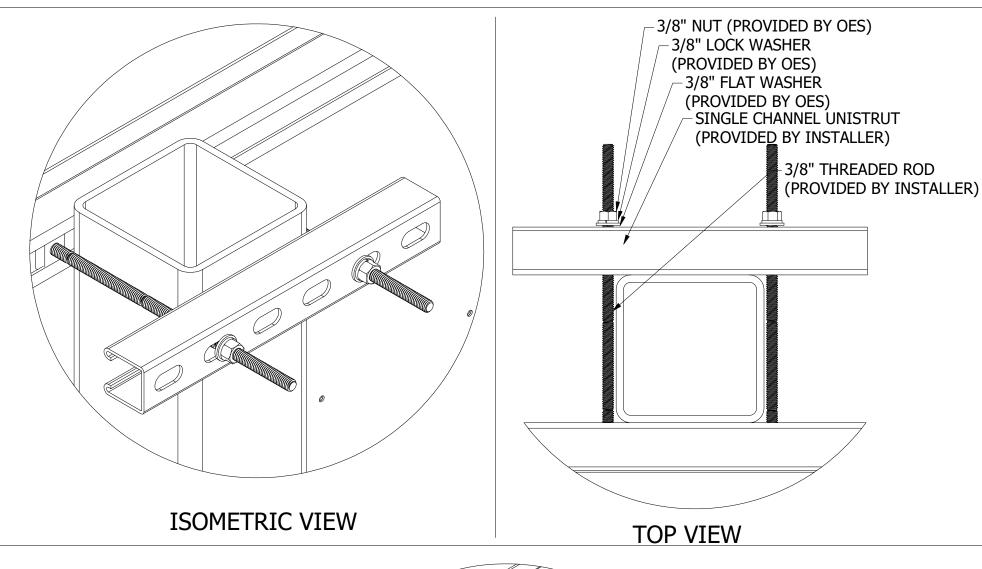
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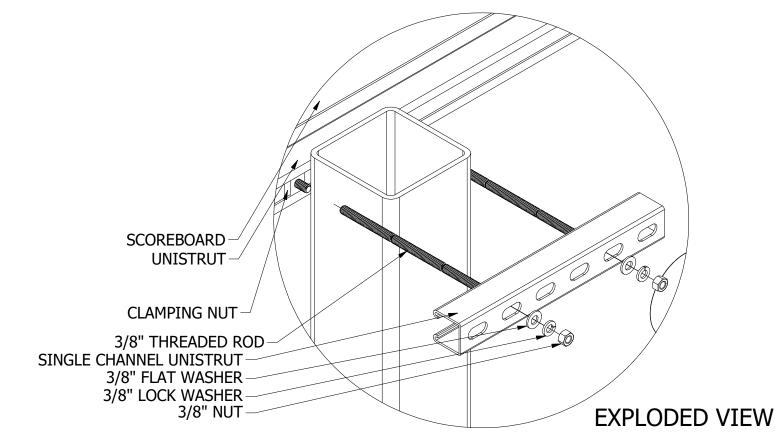
SCALE NTS DRAWN BY rdonald

PAGE 2 OF 3

INIT DRAWING DATE

12/13/2021





# OUTDOOR SCOREBOARD INSTALLATION: MOUNTING TO HSS POST

- 1. INSERT CLAMPING NUTS INTO THE UNISTRUT ALONG THE BACK OF THE SCOREBOARD. TURN CLAMPING NUTS TO VERTICAL POSITION TO LOCK IN PLACE. CLAMPING NUTS ARE TO BE USED IN PAIRS AT ALL POST LOCATIONS ALONG ALL INSTALLED UNISTRUT CHANNELS.
- 2. CUT THREADED ROD TO LENGTH (WILL DEPEND ON POST DIMENSIONS)
- 3. LIFT SCOREBOARD INTO POSITION. ASSEMBLE THE THREADED ROD, WASHERS, AND 3/8" NUT. ADJUST CLAMPING NUT LOCATION IF NEEDED TO MOVE THE THREADED ROD CLOSER TO THE POST.
- 4. TIGHTEN ALL NUTS TO 19 FT-LB OF TORQUE.

MOUNTING HARDWARE FOR HSS POSTS CAN BE SUPPLIED BY OES UPON REQUEST. POST DIMENSIONS MUST BE PROVIDED BY THE CUSTOMER TO DETERMINE UNISTRUT AND THREADED ROD LENGTHS.

#### **IMPORTANT NOTES:**

- 1. DO NOT USE LUBRICANT ON ANY MOUNTING HARDWARE.
- 2. SCOREBOARD MUST BE ATTACHED AT ALL LOCATIONS WHERE A POST CROSSES A ROW OF UNISTRUT.
- 3. POSTS AND FOOTINGS SHOULD BE APPROVED BY A PROFESSIONAL ENGINEER FAMILIAR WITH LOCAL BUILDING CODES. OES-PROVIDED POST SPECIFICATIONS ARE FOR COST ESTIMATION PURPOSES ONLY.



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TOLERANCE INFORMATION
Dimensions are in inches

Fractional  $\pm 1/16$ \*
Two Place Decimals  $\pm 0.02$ \*
Three Place Decimals  $\pm 0.005$ 





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INSTALL DRAWINGS - OUTDOOR OES ELECTRONIC SCOREBOARDS

SIZE FILENAME Installation Drawings - Outdoor.idw

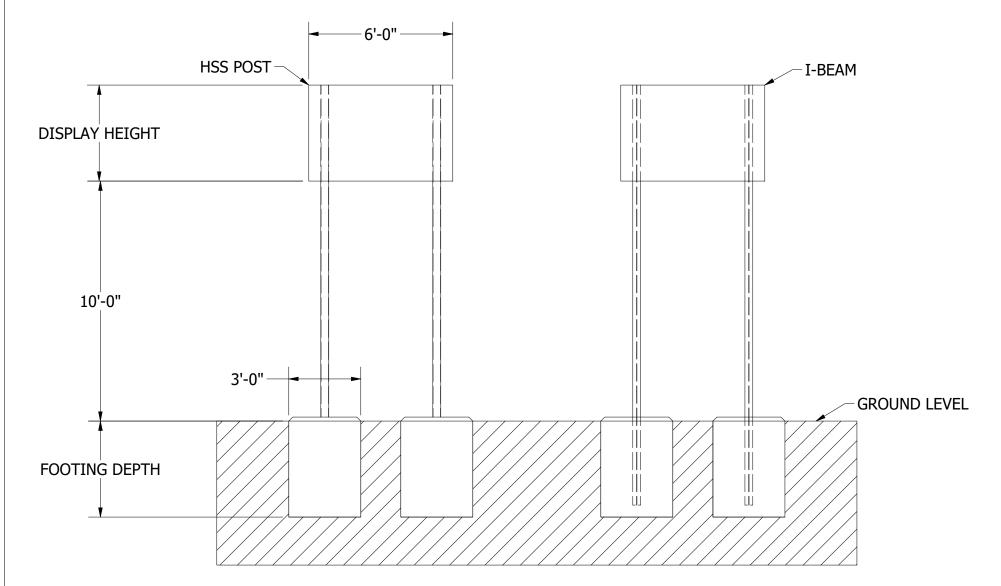
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12/13/2021

INIT DRAWING DATE

USE FOR CONSTRUCTION

SCALE NTS DRAWN BY rdonald PAGE 3 OF 3



DUCT 8	FOOTING	GUIDE (6	וםסזח י	AY WIDTH)
rusi a	DULLOOL	GOIDE 10	DISEL	AI WIDIII

				1051 010011	NG GOIDE (O D	151 LAT WIDTH)			
DISPLAY HEIGHT	WIND SPEED>	EXPOSURE B 90 MPH	EXPOSURE B 110 MPH	EXPOSURE B 130 MPH	EXPOSURE B 150 MPH	EXPOSURE C 90 MPH	EXPOSURE C 110 MPH	EXPOSURE C 130 MPH	EXPOSURE C 150 MPH
	I-BEAM	W6X9	W6X9	W6X9	W6X9	W6X9	W6X9	W6X9	W6X9
4'	HSS POST	HSS3X3X1/8	HSS3-1/2X3-1/2X1/8	HSS4X4X1/8	HSS5X5X1/8	HSS3-1/2X3-1/2X1/8	HSS4X4X1/8	HSS5X5X1/8	HSS5X5X3/16
	FOOTING	3'X2.71'	3'X3.12'	3'X3.52'	3'X3.9'	3'X3.11'	3'X3.59'	3'X4.05'	3'X4.49'
	I-BEAM	W6X9	W6X9	W6X9	W6X9	W6X9	W6X9	W6X9	W6X12
6'	HSS POST	HSS3-1/2X3-1/2X1/8	HSS4X4X1/8	HSS5X5X1/8	HSS5X5X3/16	HSS4X4X1/8	HSS5X5X1/8	HSS5X5X3/16	HSS6X6X3/16
	FOOTING	3'X3.22'	3'X3.72'	3'X4.19'	3'X4.65'	3'X3.69'	3'X4.27'	3'X4.82'	3'X5.35'
	I-BEAM	W6X9	W6X9	W6X9	W6X12	W6X9	W6X9	W6X12	W8X13
8'	HSS POST	HSS4X4X1/8	HSS5X5X1/8	HSS5X5X3/16	HSS6X6X3/16	HSS5X5X1/8	HSS5X5X3/16	HSS6X6X3/16	HSS7X7X3/16
	FOOTING	3'X3.69'	3'X4.26'	3'X4.8'	3'X5.33'	3'X4.22'	3'X4.88'	3'X5.51'	3'X6.12'
	I-BEAM	W6X9	W6X9	W6X12	W8X13	W6X9	W6X12	W8X13	W10X15
10'	HSS POST	HSS5X5X1/8	HSS5X5X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS5X5X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16
	FOOTING	3'X4.12'	3'X4.75'	3'X5.37'	3'X5.96'	3'X4.7'	3'X5.43'	3'X6.14'	3'X6.82'
	I-BEAM	W6X9	W6X12	W8X13	W10X15	W6X9	W8X13	W10X15	W12X16
12'	HSS POST	HSS5X5X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X3/16
	FOOTING	3'X4.52'	3'X5.22'	3'X5.89'	3'X6.54'	3'X5.15'	3'X5.95'	3'X6.73'	3'X7.47'

#### **IMPORTANT NOTE:**

THIS DRAWING IS INTENDED AS A TOOL FOR ESTIMATING INSTALLATION COSTS ONLY. THE INFORMATION WITHIN HAS NOT BEEN VALIDATED BY A PROFESSIONAL ENGINEER, AND THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION. CONSULT LOCAL BUILDING CODES AND SEEK PROPER STAMPED DRAWINGS PRIOR TO CONSTRUCTION. OES IS NOT RESPONSIBLE FOR DAMAGES TO PROPERTY AND PERSONS IF THE INFORMATION WITHIN THIS DRAWING IS USED BEYOND ITS SCOPE.

#### OTHER NOTES:

- 1. DISPLAY HEIGHT AND DISPLAY WIDTH ARE MADE UP OF ANY COMBINATION OF SCOREBOARDS. AD PANELS, OR TRUSSES.
- 2. FOR DISPLAY HEIGHTS OR WIND SPEEDS BETWEEN THE TABULATED VALUES, ROUND UP TO THE NEXT LARGEST DISPLAY HEIGHT AND/OR WIND SPEED TO ESTIMATE POST REQUIREMENTS.
- 3. ASSUMPTIONS:

- SCOREBOARD IS MOUNTED ON TWO POSTS.
- BOTTOM OF THE SCOREBOARD IS 10' ABOVE GROUND LEVEL.
- FOOTING DEPTH CALCULATED USING A 3' FOOTING DIAMETER.
- POSTS ARE ASSUMED TO BE A36 (36KSI) STEEL.
- SOIL LATERAL BEARING PRESSURE IS TAKEN AS 100 PSF.
- 4. POST SIZING CALCULATIONS PERFORMED ACCORDING TO ASCE7-10. I-BEAM AND TUBE PROPERTIES FROM AISC VERSION 13.0 CD DATABASE AND AISC 13TH EDITION MANUAL.
- 5. FOR A POST & FOOTING ESTIMATE USING CUSTOM PARAMETERS, PLEASE CONTACT OES.

#### **EXPOSURE CATEGORIES - GENERAL DEFINITIONS:**

EXPOSURE B: URBAN AND SUBURBAN AREAS, WOODED AREAS, OR OTHER TERRAIN WITH NUMEROUS CLOSELY SPACED OBSTRUCTIONS HAVING THE SIZE OF SINGLE-FAMILY DWELLINGS OR LARGER. THESE AREAS PREVAIL IN THE UPWIND DIRECTION FOR A DISTANCE OF 2600 FT OR 20 TIMES THE STRUCTURE HEIGHT, WHICHEVER IS GREATER.

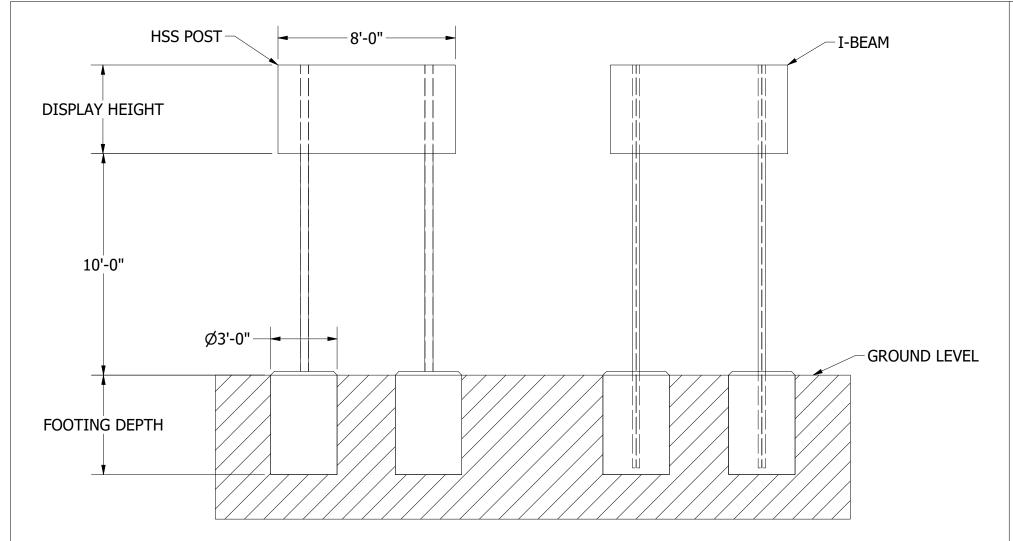
EXPOSURE C: OPEN TERRAIN WITH SCATTERED OBSTRUCTIONS HAVING HEIGHTS GENERALLY LESS THAN 30 FT. THIS CATEGORY INCLUDES FLAT OPEN COUNTRY, GRASSLANDS, AND ALL WATER SURFACES IN HURRICANE PRONE AREAS.

-			F	REVISION	HIST	ORY			
	REV	DESCI	RIP	TION		DATE		APPROV	ΈD
	Α	INITIAL	. RE	LEASE		2021-11	-10	RD	
PART NUME	BER: N/	A			ES	Lond Tel:	don, Ol (519)	e Road, N, N6L 1P7 652-5833	
NOTICE TO PERSO TECHNICAL INFOR		NG THIS DRAWING AND		SCORE	BOARDS	Ema		352-3795 @oes-inc.com	
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WRITTEN AUTHOR  TOLERANCE INFOR Dimensions are in inc  Fractional ± 1/16"	MATION	OM OES INC.  THIRD ANGLE  PROJECTION	size B	Post G	Guide	6'.idw		21-11-10	REV
Two Place Decimals ± 0.02* Three Place Decimals ± 0.005									

DRAWN BY rdonald

| PAGE 1 OF 1

SCALE NTS



				POST & FOOTI	NG GUIDE (8' D	ISPLAY WIDTH)	1		
DISPLAY HEIGHT	WIND SPEED>	EXPOSURE B 90 MPH	EXPOSURE B 110 MPH	EXPOSURE B 130 MPH	EXPOSURE B 150 MPH	EXPOSURE C 90 MPH	EXPOSURE C 110 MPH	EXPOSURE C 130 MPH	EXPOSURE C 150 MPH
	I-BEAM	W6X9	W6X9	W6X9	W6X9	W6X9	W6X9	W6X9	W6X9
4'	HSS POST	HSS3X3X1/8	HSS4X4X1/8	HSS5X5X1/8	HSS5X5X1/8	HSS4X4X1/8	HSS5X5X1/8	HSS5X5X3/16	HSS5X5X3/16
	FOOTING	3'X3'	3'X3.46'	3'X3.9'	3'X4.33'	3'X3.44'	3'X3.98'	3'X4.49'	3'X4.99'
	I-BEAM	W6X9	W6X9	W6X9	W6X9	W6X9	W6X9	W6X12	W8X13
6'	HSS POST	HSS4X4X1/8	HSS5X5X1/8	HSS5X5X3/16	HSS6X6X3/16	HSS5X5X1/8	HSS5X5X3/16	HSS6X6X3/16	HSS7X7X3/16
	FOOTING	3'X3.57'	3'X4.12'	3'X4.65'	3'X5.16'	3'X4.1'	3'X4.74'	3'X5.35'	3'X5.94'
	I-BEAM	W6X9	W6X9	W6X12	W8X13	W6X9	W6X12	W8X13	W10X15
8'	HSS POST	HSS5X5X1/8	HSS5X5X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS5X5X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16
	FOOTING	3'X4.09'	3'X4.72'	3'X5.33'	3'X5.92'	3'X4.68'	3'X5.41'	3'X6.12'	3'X6.8'
	I-BEAM	W6X9	W6X12	W8X13	W10X15	W6X12	W8X13	W10X15	W12X16
10'	HSS POST	HSS5X5X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X3/16
	FOOTING	3'X4.56'	3'X5.28'	3'X5.96'	3'X6.62'	3'X5.21'	3'X6.03'	3'X6.82'	3'X7.59'
	I-BEAM	W6X9	W8X13	W10X15	W12X16	W8X13	W10X15	W12X16	W12X19
12'	HSS POST	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X3/16	HSS6X6X3/16	HSS8X8X3/16	HSS9X9X3/16	HSS9X9X1/4
	FOOTING	3'X5.01'	3'X5.79'	3'X6.55'	3'X7.27'	3'X5.71'	3'X6.61'	3'X7.48'	3'X8.32'
	I-BEAM	W6X12	W8X13	W10X15	W12X19	W8X13	W12X16	W12X19	W14X22
14'	HSS POST	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X1/4	HSS7X7X3/16	HSS9X9X3/16	HSS9X9X1/4	HSS10X10X1/4
	FOOTING	3'X5.44'	3'X6.29'	3'X7.1'	3'X7.9'	3'X6.18'	3'X7.16'	3'X8.1'	3'X9.01'
	I-BEAM	W8X13	W10X15	W12X16	W12X22	W10X15	W12X16	W12X22	W12X26
16'	HSS POST	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X3/16	HSS9X9X1/4	HSS8X8X3/16	HSS9X9X3/16	HSS10X10X1/4	HSS12X12X1/4
	FOOTING	3'X5.84'	3'X6.76'	3'X7.64'	3'X8.49'	3'X6.63'	3'X7.68'	3'X8.69'	3'X9.67'

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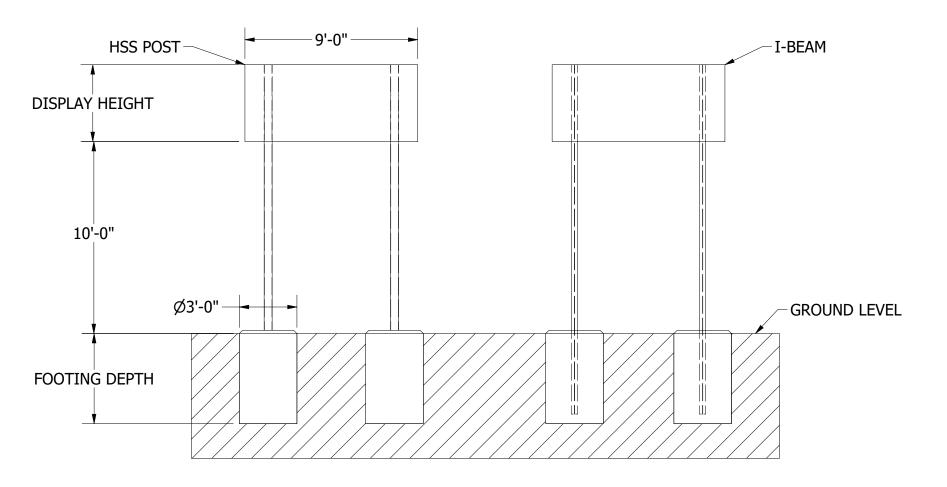
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				F	REVISION HIST	ORY			
		REV	DESC	RIP	TION	DATE		APPROV	ΈD
		Α	INITIAL	RE	LEASE	2021-11	-10	RD	
PART NUMBER: N/A					<b>DES</b>	Lond Tel:	(519) 6	Road, I, N6L 1P7 552-5833 552-3795	
_	NOTICE TO PERSO TECHNICAL INFOR		THIS DRAWING AND		SCOREBOARDS	Ema		oes-inc.com	
OES INC. CLAIMS PROPERTY RIGHTS TO THE MATERIAL DISCLOSED HEREIN. THIS DRAWINGS INCLUDES UNPUBLISHED PROPRIETARY MATERIAL DEVELOPED BY OES INC. AND AS SUCH IS NOT TO BE COPIED, REPRODUCED OR USED IN ANY WAY WITHOUT PRIOR					POST & FOOT INSTALLAT				
	WRITTEN AUTHOR		1	SIZE	FILENAME			RAWING DATE	REV
_	TOLERANCE INFOR Dimensions are in inc		THIRD ANGLE PROJECTION	В	Post Guide	8'.idw	202	21-11-10	A
	Two Diose Desimals + 0.02*			l .					1

DRAWN BY rdonald

SCALE NTS

PAGE 1 OF 1



				POST & FOOTI	NG GUIDE (9' D	(SPLAY WIDTH)				
DISPLAY HEIGHT	WIND SPEED>	EXPOSURE B 90 MPH	EXPOSURE B 110 MPH	EXPOSURE B 130 MPH	EXPOSURE B 150 MPH	EXPOSURE C 90 MPH	EXPOSURE C 110 MPH	EXPOSURE C 130 MPH	EXPOSURE C 150 MPH	
	I-BEAM	W6X9	W6X9	W6X9	W6X9	W6X9	W6X9	W6X9	W6X9	
4'	HSS POST	HSS3-1/2X3-1/2X1/8	HSS4X4X1/8	HSS5X5X1/8	HSS5X5X3/16	HSS4X4X1/8	HSS5X5X1/8	HSS5X5X3/16	HSS6X6X3/16	
	FOOTING	3'X3.13'	3'X3.61'	3'X4.07'	3'X4.52'	3'X3.59'	3'X4.15'	3'X4.69'	3'X5.21'	
	I-BEAM	W6X9	W6X9	W6X9	W6X12	W6X9	W6X9	W6X12	W8X13	
6'	HSS POST	HSS4X4X1/8	HSS5X5X1/8	HSS5X5X3/16	HSS6X6X3/16	HSS5X5X1/8	HSS5X5X3/16	HSS6X6X3/16	HSS7X7X3/16	
	FOOTING	3'X3.72'	3'X4.3'	3'X4.85'	3'X5.39'	3'X4.27'	3'X4.94'	3'X5.59'	3'X6.21'	
	I-BEAM	W6X9	W6X9	W6X12	W8X13	W6X9	W6X12	W8X13	W10X15	
8'	HSS POST	HSS5X5X1/8	HSS5X5X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS5X5X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16	
	FOOTING	3'X4.26'	3'X4.93'	3'X5.57'	3'X6.18'	3'X4.88'	3'X5.65'	3'X6.39'	3'X7.11'	
	I-BEAM	W6X9	W6X12	W8X13	W10X15	W6X12	W8X13	W10X15	W12X19	
10'	HSS POST	HSS5X5X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS8X8X1/4	
	FOOTING	3'X4.76'	3'X5.51'	3'X6.22'	3'X6.91'	3'X5.44'	3'X6.3'	3'X7.13'	3'X7.93'	
	I-BEAM	W6X12	W8X13	W10X15	W12X16	W8X13	W10X15	W12X19	W12X22	Τ,
12'	HSS POST	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X3/16	HSS10X10X1/4	<u> </u>
	FOOTING	3'X5.23'	3'X6.05'	3'X6.84'	3'X7.6'	3'X5.96'	3'X6.9'	3'X7.81'	3'X8.69'	L
	I-BEAM	W8X13	W10X15	W12X16	W12X19	W10X15	W12X16	W12X22	W14X22	
14'	HSS POST	HSS6X6X3/16	HSS8X8X3/16	HSS9X9X3/16	HSS9X9X1/4	HSS8X8X3/16	HSS9X9X3/16	HSS9X9X1/4	HSS12X12X1/4	7
	FOOTING	3'X5.67'	3'X6.56'	3'X7.42'	3'X8.25'	3'X6.45'	3'X7.48'	3'X8.46'	3'X9.42'	Į
	I-BEAM	W8X13	W10X15	W12X19	W12X22	W10X15	W12X19	W14X22	W16X26	(F
16'	HSS POST	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X1/4	HSS10X10X1/4	HSS8X8X3/16	HSS9X9X1/4	HSS10X10X1/4	HSS12X12X1/4	١
	FOOTING	3'X6.1'	3'X7.06'	3'X7.98'	3'X8.87'	3'X6.92'	3'X8.02'	3'X9.08'	3'X10.11'	Ċ
	I-BEAM	W10X15	W12X16	W12X22	W12X26	W12X16	W12X22	W12X26	W16X31	]
18'	HSS POST	HSS8X8X3/16	HSS9X9X3/16	HSS10X10X1/4	HSS12X12X1/4	HSS9X9X3/16	HSS10X10X1/4	HSS12X12X1/4	HSS12X12X5/16	
1	FOOTING	3'X6.51'	3'X7.53'	3'X8.52'	3'X9.47'	3'X7.37'	3'X8.55'	3'X9.67'	3'X10.77'	1

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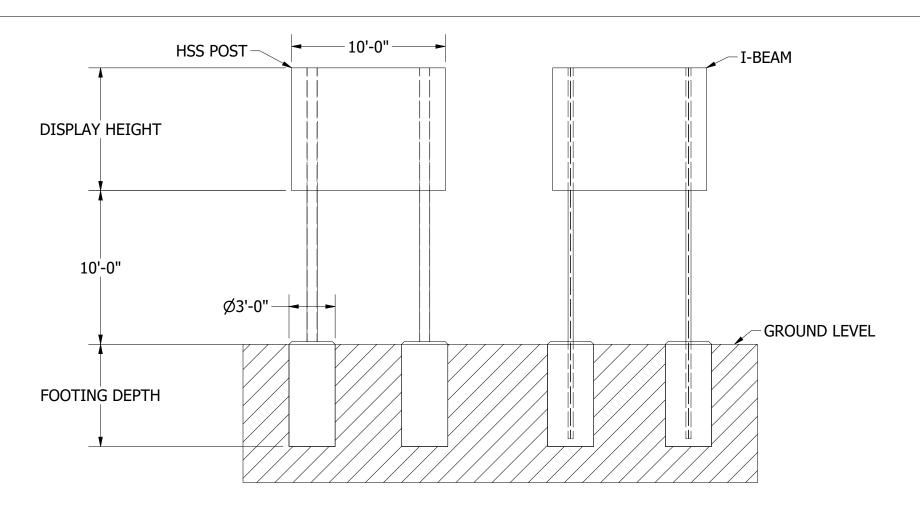
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		l	REVISION HIST	ORY			
REV	DESC	RIP	TION	DATE		APPROVED	
Α	INITIAL	_ RE	ELEASE	2021-11	-10	RD	
PART NUMBER: N/A	4		DES	Lond Tel:	(519) 6	, N6L 1P7 52-5833	
NOTICE TO PERSON RECEIVIN TECHNICAL INFORMATION:	G THIS DRAWING AND	DESC	SCOREBOARDS	Fax: Ema		52-3795 )oes-inc.com	
OES INC. CLAIMS PROPERTY F DISCLOSED HEREIN. THIS DRA UNPUBLISHED PROPRIETARY OES INC. AND AS SUCH IS NOT REPRODUCED OR USED IN AN	WINGS INCLUDES MATERIAL DEVELOPED BY TO BE COPIED,	DESC	POST & FOOT INSTALLAT		_		
WRITTEN AUTHORIZATION FRO		SIZE	Post Guide	9'.idw		RAWING DATE 21-11-10	REV
Dimensions are in inches  Fractional ± 1/16"  Two Place Decimals ± 0.02"	PROJECTION	В	USAGE	3 11477	202	-1 11 10	A
Three Place Decimals ± 0.005"	I ( <del>(+++++++++++++++++++++++++++++++++++</del>						

SCALE NTS

DRAWN BY rdonald



				DOCT A FOOTIN	IC CUIDE (40) B	TCDL AVANTETIL	`		
				POST & FOOTIN	NG GUIDE (10' D	DISPLAY WIDTH	)		
DISPLAY HEIGHT	WIND SPEED>	EXPOSURE B 90 MPH	EXPOSURE B 110 MPH	EXPOSURE B 130 MPH	EXPOSURE B 150 MPH	EXPOSURE C 90 MPH	EXPOSURE C 110 MPH	EXPOSURE C 130 MPH	EXPOSURE C 150 MPH
	I-BEAM	W6X9	W6X9	W6X9	W6X12	W6X9	W6X9	W6X12	W8X13
6'	HSS POST	HSS5X5X1/8	HSS5X5X3/16	HSS5X5X3/16	HSS6X6X3/16	HSS5X5X1/8	HSS6X6X3/16	HSS6X6X3/16	HSS7X7X3/16
	FOOTING	3'X3.86'	3'X4.47'	3'X5.04'	3'X5.6'	3'X4.44'	3'X5.14'	3'X5.81'	3'X6.46'
	I-BEAM	W6X9	W6X9	W8X13	W8X13	W6X9	W8X13	W10X15	W12X16
8'	HSS POST	HSS5X5X3/16	HSS6X6X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X3/16
	FOOTING	3'X4.43'	3'X5.12'	3'X5.79'	3'X6.43'	3'X5.07'	3'X5.88'	3'X6.65'	3'X7.4'
	I-BEAM	W6X9	W6X12	W10X15	W10X15	W6X12	W10X15	W12X16	W12X19
10'	HSS POST	HSS5X5X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS6X6X3/16	HSS8X8X3/16	HSS9X9X3/16	HSS9X9X1/4
	FOOTING	3'X4.95'	3'X5.72'	3'X6.47'	3'X7.19'	3'X5.65'	3'X6.55'	3'X7.41'	3'X8.25'
	I-BEAM	W6X12	W8X13	W10X15	W12X19	W8X13	W10X15	W12X19	W14X22
12'	HSS POST	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X1/4	HSS7X7X3/16	HSS9X9X3/16	HSS9X9X1/4	HSS10X10X1/4
	FOOTING	3'X5.43'	3'X6.29'	3'X7.11'	3'X7.9'	3'X6.19'	3'X7.18'	3'X8.12'	3'X9.04'
	I-BEAM	W8X13	W10X15	W12X16	W12X22	W10X15	W12X19	W12X22	W12X26
14'	HSS POST	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X3/16	HSS9X9X1/4	HSS8X8X3/16	HSS9X9X3/16	HSS10X10X1/4	HSS12X12X1/4
	FOOTING	3'X5.89'	3'X6.82'	3'X7.71'	3'X8.58'	3'X6.71'	3'X7.77'	3'X8.8'	3'X9.8'
	I-BEAM	W10X15	W12X16	W12X19	W14X22	W12X16	W12X19	W12X26	W14X30
16'	HSS POST	HSS7X7X3/16	HSS9X9X3/16	HSS9X9X1/4	HSS10X10X1/4	HSS9X9X3/16	HSS9X9X1/4	HSS12X12X1/4	HSS12X12X1/4
	FOOTING	3'X6.34'	3'X7.33'	3'X8.29'	3'X9.23'	3'X7.19'	3'X8.34'	3'X9.44'	3'X10.51'
	I-BEAM	W10X15	W12X19	W14X22	W16X26	W12X19	W14X22	W16X26	W14X34
18'	HSS POST	HSS8X8X3/16	HSS9X9X1/4	HSS10X10X1/4	HSS12X12X1/4	HSS9X9X3/16	HSS10X10X1/4	HSS12X12X1/4	HSS12X12X5/16
	FOOTING	3'X6.76'	3'X7.83'	3'X8.86'	3'X9.85'	3'X7.66'	3'X8.89'	3'X10.06'	3'X11.2'
	I-BEAM	W12X16	W12X22	W12X26	W14X30	W12X19	W12X26	W16X31	W18X35
20'	HSS POST	HSS9X9X3/16	HSS9X9X1/4	HSS12X12X1/4	HSS12X12X1/4	HSS9X9X1/4	HSS12X12X1/4	HSS12X12X5/16	HSS14X14X5/16
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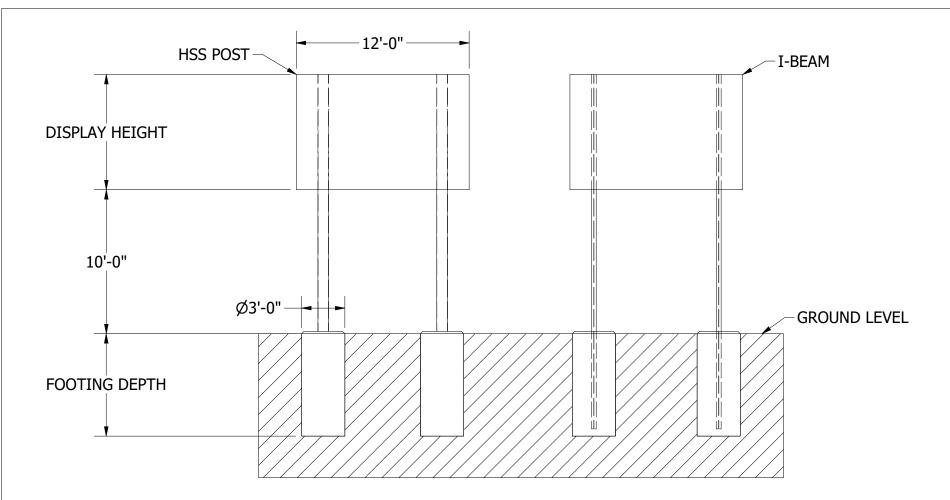
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			F	REVISION HISTORY						
	REV	DESC	RIP	TION	DATE		APPROV	ED		
	Α	INITIAI	INITIAL RELEASE 202			10	RD			
TECHNICAL INFOR OES INC. CLAIMS DISCLOSED HERE UNPUBLISHED PR OES INC. AND AS	ON RECEIVIN RMATION: PROPERTY F IN. THIS DRA OPRIETARY SUCH IS NOT	IG THIS DRAWING AND RIGHTS TO THE MATERIAL KWINGS INCLUDES MATERIAL DEVELOPED BY TTO BE COPIED,	DESC	SCOREBOARDS RIPTION POST & FOOT INSTALLAT	Londo Tel: ( Fax: ( Email	(519) 69 (519) 69 I: oes@	, N6L 1P7 52-5833 52-3795 coes-inc.com			
REPRODUCED OR WRITTEN AUTHOR TOLERANCE INFO	RIZATION FRO	THIRD ANGLE	SIZE	FILENAME Post Guide	10'.idw		RAWING DATE 21-11-10	REV		
Fractional ± 1/16"  Two Place Decimals ± 0.02"		PROJECTION	В	USAGE	-			A		

SCALE NTS

DRAWN BY rdonald



	POST & FOOTING GUIDE (12' DISPLAY WIDTH)												
DISPLAY HEIGHT	WIND SPEED>	EXPOSURE B 90 MPH	EXPOSURE B 110 MPH	EXPOSURE B 130 MPH	EXPOSURE B 150 MPH	EXPOSURE C 90 MPH	EXPOSURE C 110 MPH	EXPOSURE C 130 MPH	EXPOSURE C 150 MPH				
	I-BEAM	W6X9	W6X9	W6X12	W8X13	W6X9	W6X12	W8X13	W10X15				
6'	HSS POST	HSS5X5X1/8	HSS5X5X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS5X5X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16				
	FOOTING	3'X4.13'	3'X4.77'	3'X5.39'	3'X5.99'	3'X4.74'	3'X5.49'	3'X6.21'	3'X6.91'				
	I-BEAM	W6X9	W6X12	W8X13	W10X15	W6X12	W8X13	W10X15	W12X19				
8'	HSS POST	HSS5X5X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X3/16				
	FOOTING	3'X4.73'	3'X5.47'	3'X6.19'	3'X6.88'	3'X5.42'	3'X6.28'	3'X7.11'	3'X7.92'				
	I-BEAM	W6X12	W8X13	W10X15	W12X16	W8X13	W10X15	W12X19	W12X22				
10'	HSS POST	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS8X8X1/4	HSS10X10X1/4				
	FOOTING	3'X5.28'	3'X6.12'	3'X6.92'	3'X7.69'	3'X6.04'	3'X7.01'	3'X7.93'	3'X8.83'				
	I-BEAM	W8X13	W10X15	W12X16	W12X22	W10X15	W12X16	W12X22	W12X26				
12'	HSS POST	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X3/16	HSS9X9X1/4	HSS8X8X3/16	HSS9X9X3/16	HSS10X10X1/4	HSS12X12X1/4				
	FOOTING	3'X5.8'	3'X6.72'	3'X7.6'	3'X8.46'	3'X6.62'	3'X7.68'	3'X8.7'	3'X9.69'				
	I-BEAM	W8X13	W12X16	W12X19	W14X22	W12X16	W12X19	W12X26	W14X30				
14'	HSS POST	HSS7X7X3/16	HSS9X9X3/16	HSS9X9X1/4	HSS10X10X1/4	HSS9X9X3/16	HSS9X9X1/4	HSS12X12X1/4	HSS12X12X1/4				
	FOOTING	3'X6.3'	3'X7.29'	3'X8.25'	3'X9.18'	3'X7.17'	3'X8.32'	3'X9.42'	3'X10.5'				
	I-BEAM	W10X15	W12X19	W12X22	W16X26	W12X19	W14X22	W16X26	W14X34				
16'	HSS POST	HSS8X8X3/16	HSS9X9X1/4	HSS10X10X1/4	HSS12X12X1/4	HSS9X9X3/16	HSS10X10X1/4	HSS12X12X1/4	HSS12X12X5/16				
	FOOTING	3'X6.77'	3'X7.84'	3'X8.88'	3'X9.88'	3'X7.69'	3'X8.92'	3'X10.11'	3'X11.27'				
	I-BEAM	W12X16	W12X22	W12X26	W14X30	W12X19	W12X26	W16X31	W18X35				
18'	HSS POST	HSS9X9X3/16	HSS9X9X1/4	HSS12X12X1/4	HSS12X12X1/4	HSS9X9X1/4	HSS12X12X1/4	HSS12X12X5/16	HSS14X14X5/16				
	FOOTING	3'X7.23'	3'X8.37'	3'X9.48'	3'X10.55'	3'X8.2'	3'X9.51'	3'X10.77'	3'X12.01'				
	I-BEAM	W12X19	W14X22	W16X26	W14X34	W12X22	W16X26	W18X35	W18X40				
20'	HSS POST	HSS8X8X1/4	HSS10X10X1/4	HSS12X12X1/4	HSS12X12X5/16	HSS10X10X1/4	HSS12X12X1/4	HSS14X14X5/16	HSS14X14X5/16				
	FOOTING	3'X7.67'	3'X8.89'	3'X10.06'	3'X11.2'	3'X8.68'	3'X10.07'	3'X11.42'	3'X12.72'				

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- FOOTING DEPTH CALCULATED USING A 3' FOOTING DIAMETER.
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- SOIL LATERAL BEARING PRESSURE IS TAKEN AS 100 PSF.
- 4. POST SIZING CALCULATIONS PERFORMED ACCORDING TO ASCE7-10. I-BEAM AND TUBE PROPERTIES FROM AISC VERSION 13.0 CD DATABASE AND AISC 13TH EDITION MANUAL.
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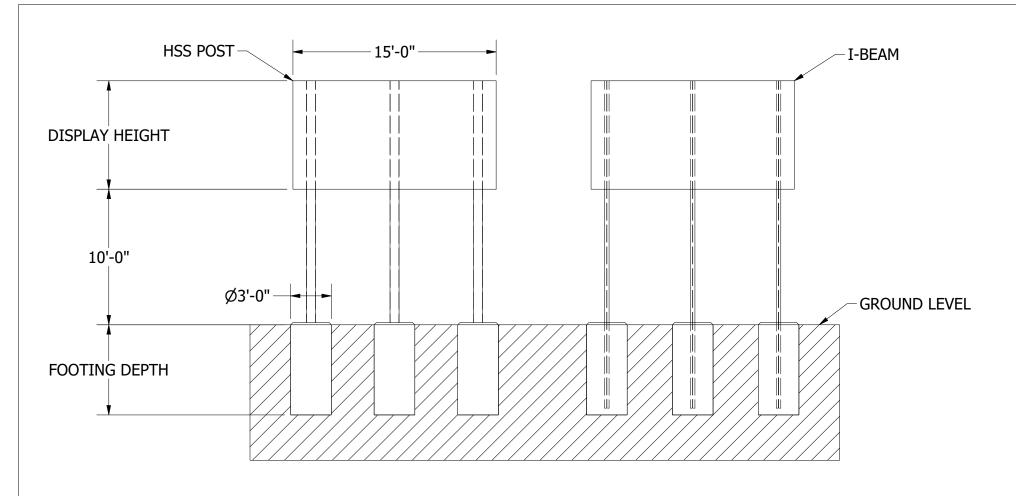
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			F	REVISION HIST	ORY			
	REV	DESC	RIP	TION	DATE		APPROV	ED
	Α	INITIAL	RELEASE 2021-11			-10	RD	
PART NUMBER: N/A  NOTICE TO PERSON RECEIVING THIS DRAWING AND TECHNICAL INFORMATION:				OES SCOREBOARDS	Lond Tel: Fax:	(519) 6 (519) 6	Road, l, N6L 1P7 :52-5833 :52-3795 goes-inc.com	
OES INC. CLAIMS PROPERTY RIGHTS TO THE MATERIAL DISCLOSED HEREIN. THIS DRAWINGS INCLUDES UNPUBLISHED PROPRIETARY MATERIAL DEVELOPED BY OES INC. AND AS SUCH IS NOT TO BE COPIED, REPRODUCED OR USED IN ANY WAY WITHOUT PRIOR WRITTEN AUTHORIZATION FROM OES INC.				POST & FOOT INSTALLAT		RUC		REV
TOLERANCE INFORDimensions are in incorporate in the Fractional ± 1/16"  Two Place Decimals ± 0.02*	RMATION	THIRD ANGLE PROJECTION	SIZE B	Post Guide	12'.idw		21-11-10	A

SCALE NTS

DRAWN BY rdonald



				POST & FOOTIN	NG GUIDE (15' D	ISPLAY WIDTH	)		
DISPLAY HEIGHT	WIND SPEED>	EXPOSURE B 90 MPH	EXPOSURE B 110 MPH	EXPOSURE B 130 MPH	EXPOSURE B 150 MPH	EXPOSURE C 90 MPH	EXPOSURE C 110 MPH	EXPOSURE C 130 MPH	EXPOSURE C 150 MPH
	I-BEAM	W6X9	W6X9	W6X9	W6X12	W6X9	W6X9	W6X12	W8X13
6'	HSS POST	HSS5X5X1/8	HSS5X5X3/16	HSS5X5X3/16	HSS6X6X3/16	HSS5X5X1/8	HSS6X6X3/16	HSS6X6X3/16	HSS7X7X3/16
	FOOTING	3'X3.86'	3'X4.47'	3'X5.04'	3'X5.6'	3'X4.44'	3'X5.14'	3'X5.81'	3'X6.46'
	I-BEAM	W6X9	W6X9	W8X13	W8X13	W6X9	W8X13	W10X15	W12X16
8'	HSS POST	HSS5X5X3/16	HSS6X6X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X3/16
	FOOTING	3'X4.43'	3'X5.12'	3'X5.79'	3'X6.43'	3'X5.07'	3'X5.88'	3'X6.65'	3'X7.4'
	I-BEAM	W6X9	W6X12	W10X15	W10X15	W6X12	W10X15	W12X16	W12X19
10'	HSS POST	HSS5X5X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS6X6X3/16	HSS8X8X3/16	HSS9X9X3/16	HSS9X9X1/4
	FOOTING	3'X4.95'	3'X5.72'	3'X6.47'	3'X7.19'	3'X5.65'	3'X6.55'	3'X7.41'	3'X8.25'
	I-BEAM	W6X12	W8X13	W10X15	W12X19	W8X13	W10X15	W12X19	W14X22
12'	HSS POST	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X1/4	HSS7X7X3/16	HSS9X9X3/16	HSS9X9X1/4	HSS10X10X1/4
	FOOTING	3'X5.43'	3'X6.29'	3'X7.11'	3'X7.9'	3'X6.19'	3'X7.18'	3'X8.12'	3'X9.04'
	I-BEAM	W8X13	W10X15	W12X16	W12X22	W10X15	W12X19	W12X22	W12X26
14'	HSS POST	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X3/16	HSS9X9X1/4	HSS8X8X3/16	HSS9X9X3/16	HSS10X10X1/4	HSS12X12X1/4
	FOOTING	3'X5.89'	3'X6.82'	3'X7.71'	3'X8.58'	3'X6.71'	3'X7.77'	3'X8.8'	3'X9.8'
	I-BEAM	W10X15	W12X16	W12X19	W14X22	W12X16	W12X19	W12X26	W14X30
16'	HSS POST	HSS7X7X3/16	HSS9X9X3/16	HSS9X9X1/4	HSS10X10X1/4	HSS9X9X3/16	HSS9X9X1/4	HSS12X12X1/4	HSS12X12X1/4
	FOOTING	3'X6.34'	3'X7.33'	3'X8.29'	3'X9.23'	3'X7.19'	3'X8.34'	3'X9.44'	3'X10.51'
	I-BEAM	W10X15	W12X19	W14X22	W16X26	W12X19	W14X22	W16X26	W14X34
18'	HSS POST	HSS8X8X3/16	HSS9X9X1/4	HSS10X10X1/4	HSS12X12X1/4	HSS9X9X3/16	HSS10X10X1/4	HSS12X12X1/4	HSS12X12X5/16
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	I-BEAM	W12X16	W12X22	W12X26	W14X30	W12X19	W12X26	W16X31	W18X35
20'	HSS POST	HSS9X9X3/16	HSS9X9X1/4	HSS12X12X1/4	HSS12X12X1/4	HSS9X9X1/4	HSS12X12X1/4	HSS12X12X5/16	HSS14X14X5/16
	FOOTING	3'X7.18'	3'X8.31'	3'X9.4'	3'X10.46'	3'X8.12'	3'X9.41'	3'X10.66'	3'X11.87'

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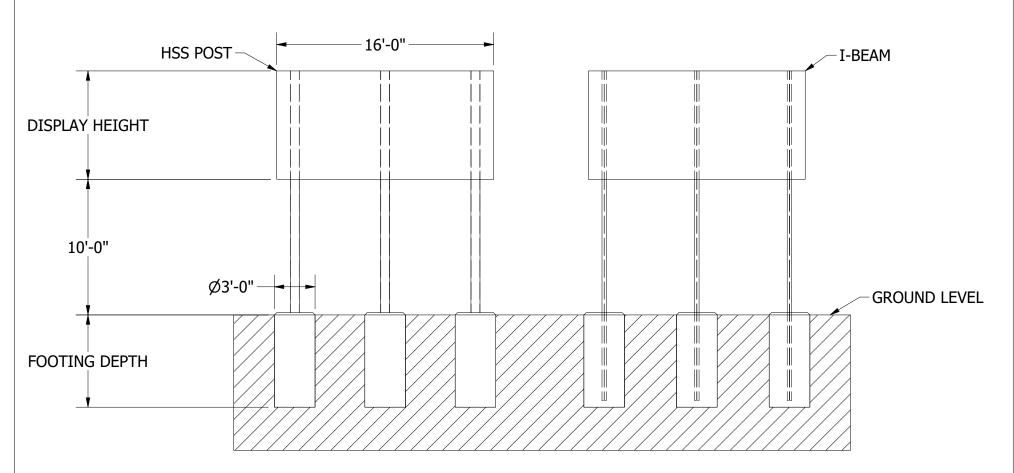
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			REVISION HIST	ORY		
	REV	DESCI	RIPTION	DATE	APPROVE	ΕD
	Α	INITIAL	RELEASE	2021-11-10	RD	
	PART NUMBER: N/A  NOTICE TO PERSON RECEIVING TECHNICAL INFORMATION:  OES INC. CLAIMS PROPERTY RI DISCLOSED HEREIN. THIS DRAW UNPUBLISHED PROPRIETARY M OES INC. AND AS SUCH IS NOT	GHTS TO THE MATERIAL VINGS INCLUDES INCLUDES BY TO BE COPIED,	DES SCOREBOARDS DESCRIPTION POST & FOOT INSTALLAT	Tel: (519) Fax: (519) Email: oes	0N, N6L 1P7 0 652-5833 0 652-3795 s@oes-inc.com	
; 	REPRODUCED OR USED IN ANY WRITTEN AUTHORIZATION FRO TOLERANCE INFORMATION Dimensions are in inches Fractional ± 1/16* Two Place Decimals ± 0.02* Three Place Decimals ± 0.005*		B   FILENAME   Post Guide   USAGE		DRAWING DATE	REV A

SCALE NTS

DRAWN BY rdonald



				POST & FOOTIN	NG GUIDE (16' D	ISPLAY WIDTH	)		
DISPLAY HEIGHT	WIND SPEED>	EXPOSURE B 90 MPH	EXPOSURE B 110 MPH	EXPOSURE B 130 MPH	EXPOSURE B 150 MPH	EXPOSURE C 90 MPH	EXPOSURE C 110 MPH	EXPOSURE C 130 MPH	EXPOSURE C 150 MPH
	I-BEAM	W6X9	W6X9	W6X9	W6X12	W6X9	W6X9	W8X13	W10X15
6'	HSS POST	HSS5X5X1/8	HSS5X5X3/16	HSS6X6X3/16	HSS6X6X3/16	HSS5X5X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16
	FOOTING	3'X3.95'	3'X4.57'	3'X5.16'	3'X5.73'	3'X4.54'	3'X5.26'	3'X5.95'	3'X6.62'
	I-BEAM	W6X9	W6X12	W8X13	W10X15	W6X9	W8X13	W10X15	W12X16
8'	HSS POST	HSS5X5X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X3/16
	FOOTING	3'X4.53'	3'X5.24'	3'X5.92'	3'X6.58'	3'X5.2'	3'X6.02'	3'X6.81'	3'X7.58'
	I-BEAM	W6X9	W8X13	W10X15	W12X16	W8X13	W10X15	W12X16	W12X19
10'	HSS POST	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X3/16	HSS9X9X1/4
	FOOTING	3'X5.06'	3'X5.86'	3'X6.62'	3'X7.36'	3'X5.79'	3'X6.71'	3'X7.59'	3'X8.45'
	I-BEAM	W6X12	W10X15	W12X16	W12X19	W8X13	W12X16	W12X19	W14X22
12'	HSS POST	HSS6X6X3/16	HSS7X7X3/16	HSS9X9X3/16	HSS9X9X1/4	HSS7X7X3/16	HSS9X9X3/16	HSS9X9X1/4	HSS10X10X1/4
	FOOTING	3'X5.56'	3'X6.44'	3'X7.28'	3'X8.09'	3'X6.34'	3'X7.35'	3'X8.32'	3'X9.27'
	I-BEAM	W8X13	W10X15	W12X19	W12X22	W10X15	W12X19	W14X22	W16X26
14'	HSS POST	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X1/4	HSS10X10X1/4	HSS8X8X3/16	HSS9X9X1/4	HSS10X10X1/4	HSS12X12X1/4
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	I-BEAM	W10X15	W12X16	W12X22	W12X26	W12X16	W12X22	W12X26	W16X31
16'	HSS POST	HSS8X8X3/16	HSS9X9X3/16	HSS9X9X1/4	HSS12X12X1/4	HSS9X9X3/16	HSS10X10X1/4	HSS12X12X1/4	HSS12X12X5/16
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	I-BEAM	W10X15	W12X19	W14X22	W16X26	W12X19	W14X22	W16X26	W18X35
18'	HSS POST	HSS8X8X3/16	HSS9X9X1/4	HSS10X10X1/4	HSS12X12X1/4	HSS9X9X1/4	HSS10X10X1/4	HSS12X12X1/4	HSS14X14X5/16
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	I-BEAM	W12X16	W12X22	W12X26	W16X31	W12X22	W12X26	W16X31	W16X40
20'	HSS POST	HSS9X9X3/16	HSS10X10X1/4	HSS12X12X1/4	HSS12X12X5/16	HSS9X9X1/4	HSS12X12X1/4	HSS12X12X5/16	HSS14X14X5/16
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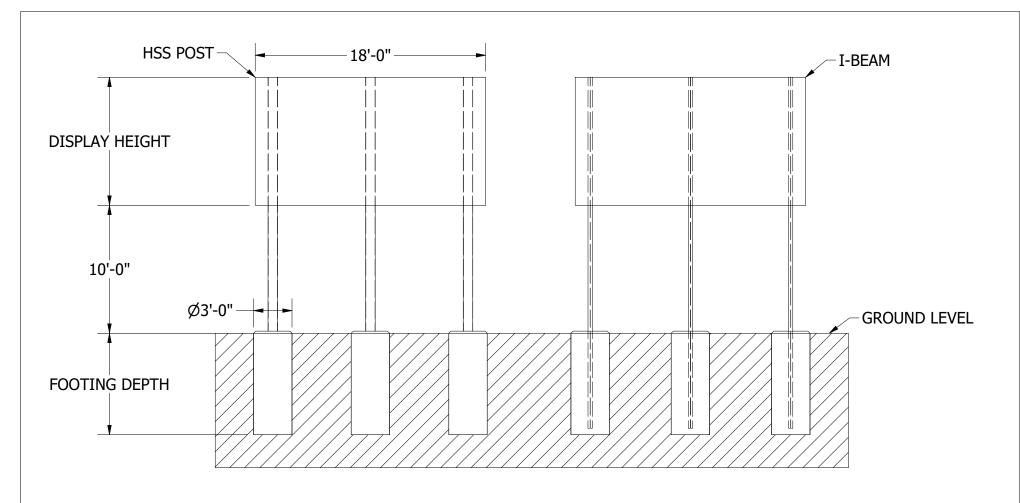
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			F	REVISION HIST	ORY			
	REV	DESC	RIP	TION	DATE		APPROVED	
	Α	INITIAL	RE	RELEASE 2021-11-10		-10	RD	
TECHNICAL INFOR DES INC. CLAIMS F	ON RECEIVIN MATION: PROPERTY F	A  IG THIS DRAWING AND  RIGHTS TO THE MATERIAL  WINGS INCLUDES	DESC	SCOREBOARDS RIPTION POST & FOOT	Lond Tel: Fax: Ema	(519) 6 (519) 6 ail: oes@	, N6L 1P7 52-5833 52-3795 Joes-inc.com	
UNPUBLISHED PRO OES INC. AND AS S REPRODUCED OR	OPRIETARY SUCH IS NO USED IN AN	MATERIAL DEVELOPED BY T TO BE COPIED, IY WAY WITHOUT PRIOR		INSTALLAT			_	
WRITTEN AUTHOR TOLERANCE INFOR Dimensions are in inc	RMATION	THIRD ANGLE PROJECTION	size B	Post Guide USAGE	16'.idw		RAWING DATE 21-11-10	REV A
Two Place Decimals ± 0.02"		1 4						

SCALE NTS

DRAWN BY rdonald

PAGE 1 OF 1



				POST & FOOTIN	NG GUIDE (18' D	ISPLAY WIDTH	)		
DISPLAY HEIGHT	WIND SPEED>	EXPOSURE B 90 MPH	EXPOSURE B 110 MPH	EXPOSURE B 130 MPH	EXPOSURE B 150 MPH	EXPOSURE C 90 MPH	EXPOSURE C 110 MPH	EXPOSURE C 130 MPH	EXPOSURE C 150 MPH
	I-BEAM	W6X9	W6X9	W6X12	W8X13	W6X9	W6X12	W8X13	W10X15
6'	HSS POST	HSS5X5X1/8	HSS5X5X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS5X5X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16
	FOOTING	3'X4.13'	3'X4.77'	3'X5.39'	3'X5.99'	3'X4.74'	3'X5.49'	3'X6.21'	3'X6.91'
	I-BEAM	W6X9	W6X12	W8X13	W10X15	W6X12	W8X13	W10X15	W12X19
8'	HSS POST	HSS5X5X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X3/16
	FOOTING	3'X4.73'	3'X5.47'	3'X6.19'	3'X6.88'	3'X5.42'	3'X6.28'	3'X7.11'	3'X7.92'
	I-BEAM	W6X12	W8X13	W10X15	W12X16	W8X13	W10X15	W12X19	W12X22
10'	HSS POST	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS8X8X1/4	HSS10X10X1/4
	FOOTING	3'X5.28'	3'X6.12'	3'X6.92'	3'X7.69'	3'X6.04'	3'X7.01'	3'X7.93'	3'X8.83'
	I-BEAM	W8X13	W10X15	W12X16	W12X22	W10X15	W12X16	W12X22	W12X26
12'	HSS POST	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X3/16	HSS9X9X1/4	HSS8X8X3/16	HSS9X9X3/16	HSS10X10X1/4	HSS12X12X1/4
	FOOTING	3'X5.8'	3'X6.72'	3'X7.6'	3'X8.46'	3'X6.62'	3'X7.68'	3'X8.7'	3'X9.69'
	I-BEAM	W8X13	W12X16	W12X19	W14X22	W12X16	W12X19	W12X26	W14X30
14'	HSS POST	HSS7X7X3/16	HSS9X9X3/16	HSS9X9X1/4	HSS10X10X1/4	HSS9X9X3/16	HSS9X9X1/4	HSS12X12X1/4	HSS12X12X1/4
	FOOTING	3'X6.3'	3'X7.29'	3'X8.25'	3'X9.18'	3'X7.17'	3'X8.32'	3'X9.42'	3'X10.5'
	I-BEAM	W10X15	W12X19	W12X22	W16X26	W12X19	W14X22	W16X26	W14X34
16'	HSS POST	HSS8X8X3/16	HSS9X9X1/4	HSS10X10X1/4	HSS12X12X1/4	HSS9X9X3/16	HSS10X10X1/4	HSS12X12X1/4	HSS12X12X5/16
	FOOTING	3'X6.77'	3'X7.84'	3'X8.88'	3'X9.88'	3'X7.69'	3'X8.92'	3'X10.11'	3'X11.27'
	I-BEAM	W12X16	W12X22	W12X26	W14X30	W12X19	W12X26	W16X31	W18X35
18'	HSS POST	HSS9X9X3/16	HSS9X9X1/4	HSS12X12X1/4	HSS12X12X1/4	HSS9X9X1/4	HSS12X12X1/4	HSS12X12X5/16	HSS14X14X5/16
	FOOTING	3'X7.23'	3'X8.37'	3'X9.48'	3'X10.55'	3'X8.2'	3'X9.51'	3'X10.77'	3'X12.01'
	I-BEAM	W12X19	W14X22	W16X26	W14X34	W12X22	W16X26	W18X35	W18X40
20'	HSS POST	HSS8X8X1/4	HSS10X10X1/4	HSS12X12X1/4	HSS12X12X5/16	HSS10X10X1/4	HSS12X12X1/4	HSS14X14X5/16	HSS14X14X5/16
	FOOTING	3'X7.67'	3'X8.89'	3'X10.06'	3'X11.2'	3'X8.68'	3'X10.07'	3'X11.42'	3'X12.72'

DOCT O FOOTING CUIDE (40) DICE AVANTETA

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#### **OTHER NOTES:**

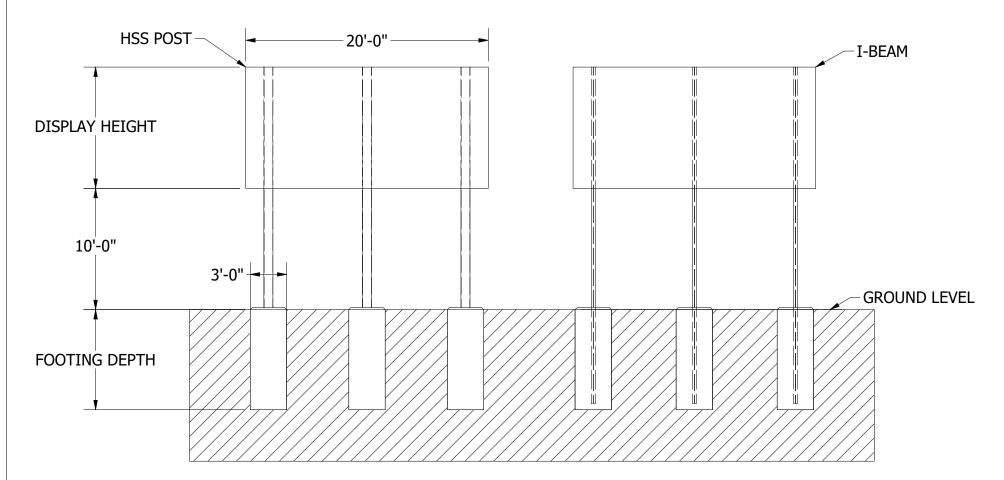
- 1. DISPLAY HEIGHT AND DISPLAY WIDTH ARE MADE UP OF ANY COMBINATION OF SCOREBOARDS. AD PANELS, OR TRUSSES.
- 2. FOR DISPLAY HEIGHTS OR WIND SPEEDS BETWEEN THE TABULATED VALUES, ROUND UP TO THE NEXT LARGEST DISPLAY HEIGHT AND/OR WIND SPEED TO ESTIMATE POST REQUIREMENTS.
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- BOTTOM OF THE SCOREBOARD IS 10' ABOVE GROUND LEVEL.
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- SOIL LATERAL BEARING PRESSURE IS TAKEN AS 100 PSF.
- 4. POST SIZING CALCULATIONS PERFORMED ACCORDING TO ASCE7-10. I-BEAM AND TUBE PROPERTIES FROM AISC VERSION 13.0 CD DATABASE AND AISC 13TH EDITION MANUAL.
- 5. FOR A POST & FOOTING ESTIMATE USING CUSTOM PARAMETERS, PLEASE CONTACT OES.

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EXPOSURE C: OPEN TERRAIN WITH SCATTERED OBSTRUCTIONS HAVING HEIGHTS GENERALLY LESS THAN 30 FT. THIS CATEGORY INCLUDES FLAT OPEN COUNTRY, GRASSLANDS, AND ALL WATER SURFACES IN HURRICANE PRONE AREAS.

				DEL (TOTOL)	LITOT	001			
			REVISION HISTORY						
	REV	DESC	DESCRIPTION			DATE		APPROV	ED
	Α	INITIA	L RE	RELEASE 2021-11-1			-10	RD	
PART NUME	BER: N/	A			ES	Lond Tel:	don, Ol (519)	e Road, N, N6L 1P7 652-5833 652-3795	
TECHNICAL INFOR	MATION:	IG THIS DRAWING AND	DESC	SCORE	BOARDS			@oes-inc.com	
DISCLOSED HEREI UNPUBLISHED PRO OES INC. AND AS S	N. THIS DRA OPRIETARY SUCH IS NOT	AWINGS INCLUDES MATERIAL DEVELOPED BY	,			ING GUID ION INST		l8' WIDTH TIONS	
WRITTEN AUTHORI	IZATION FRO		SIZE	FILENAME Post G	uido ·	10! idw		DRAWING DATE	REV
Dimensions are in inc	ches	PROJECTION	В	USAGE USAGE	uiue .	to .luw	20	21-11-10	Α
Two Place Decimals ± 0.02* Three Place Decimals ± 0.005	5*								
Four Place Decimals ± 0.0005 Angular 30°	5*		SCALE	NTS	DRAWN	BY rdonald	l	PAGE 1 OF	1



	POST & FOOTING GUIDE (20' DISPLAY WIDTH)											
DISPLAY HEIGHT	WIND SPEED>	EXPOSURE B 90 MPH	EXPOSURE B 110 MPH	EXPOSURE B 130 MPH	EXPOSURE B 150 MPH	EXPOSURE C 90 MPH	EXPOSURE C 110 MPH	EXPOSURE C 130 MPH	EXPOSURE C 150 MPH	EXPOS NUMEI		
	I-BEAM	W6X9	W6X9	W6X12	W8X13	W6X9	W6X12	W8X13	W10X15	LARGE		
6'	HSS POST	HSS5X5X1/8	HSS5X5X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS5X5X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16	TIMES		
	FOOTING	3'X4.29'	3'X4.96'	3'X5.6'	3'X6.23'	3'X4.93'	3'X5.71'	3'X6.46'	3'X7.19'	EXPOS		
	I-BEAM	W6X9	W6X12	W8X13	W10X15	W6X12	W10X15	W12X16	W12X19	THAN		
8'	HSS POST	HSS5X5X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS9X9X3/16	HSS9X9X1/4	SURFA		
	FOOTING	3'X4.91'	3'X5.69'	3'X6.43'	3'X7.15'	3'X5.64'	3'X6.53'	3'X7.4'	3'X8.24'			
	I-BEAM	W6X12	W8X13	W10X15	W12X19	W8X13	W12X16	W12X19	W14X22			
10'	HSS POST	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X1/4	HSS7X7X3/16	HSS9X9X3/16	HSS9X9X1/4	HSS10X10X1/4			
	FOOTING	3'X5.49'	3'X6.36'	3'X7.19'	3'X8'	3'X6.28'	3'X7.28'	3'X8.25'	3'X9.19'			
	I-BEAM	W8X13	W10X15	W12X19	W12X22	W10X15	W12X19	W14X22	W16X26			
12'	HSS POST	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X1/4	HSS10X10X1/4	HSS8X8X3/16	HSS9X9X1/4	HSS10X10X1/4	HSS12X12X1/4			
	FOOTING	3'X6.03'	3'X6.99'	3'X7.91'	3'X8.8'	3'X6.88'	3'X7.99'	3'X9.05'	3'X10.08'			
	I-BEAM	W10X15	W12X16	W12X22	W12X26	W12X16	W12X22	W12X26	W16X31	PART		
14'	HSS POST	HSS8X8X3/16	HSS9X9X3/16	HSS9X9X1/4	HSS12X12X1/4	HSS9X9X3/16	HSS10X10X1/4	HSS12X12X1/4	HSS12X12X5/16	PARTI		
	FOOTING	3'X6.54'	3'X7.58'	3'X8.58'	3'X9.55'	3'X7.45'	3'X8.65'	3'X9.8'	3'X10.92'			
	I-BEAM	W10X15	W12X19	W14X22	W16X26	W12X19	W14X22	W14X30	W18X35	NOTICE TO TECHNICA		
16'	HSS POST	HSS8X8X3/16	HSS9X9X1/4	HSS10X10X1/4	HSS12X12X1/4	HSS9X9X1/4	HSS12X12X1/4	HSS12X12X1/4	HSS14X14X5/16	OES INC. O		
	FOOTING	3'X7.04'	3'X8.15'	3'X9.23'	3'X10.28'	3'X8'	3'X9.28'	3'X10.52'	3'X11.73'	DISCLOSE UNPUBLIS		
	I-BEAM	W12X16	W12X22	W16X26	W16X31	W12X22	W16X26	W14X34	W16X40	OES INC. A		
18'	HSS POST	HSS9X9X3/16	HSS10X10X1/4	HSS12X12X1/4	HSS12X12X5/16	HSS10X10X1/4	HSS12X12X1/4	HSS12X12X5/16	HSS14X14X5/16	WRITTEN A		
	FOOTING	3'X7.51'	3'X8.7'	3'X9.86'	3'X10.97'	3'X8.52'	3'X9.89'	3'X11.21'	3'X12.5'	Dimensions		
	I-BEAM	W12X19	W14X22	W14X30	W18X35	W14X22	W14X30	W18X35	W21X44	Fractional ± 1/1 Two Place Decir		
20'	HSS POST	HSS9X9X1/4	HSS12X12X1/4	HSS12X12X1/4	HSS14X14X5/16	HSS10X10X1/4	HSS12X12X1/4	HSS14X14X5/16	HSS16X16X5/16	Three Place Deci		
	FOOTING	3'X7.97'	3'X9.24'	3'X10.46'	3'X11.65'	3'X9.03'	3'X10.48'	3'X11.88'	3'X13.24'	Angular 30		

DOCT 0 FOOTING CHIDE (20) DICDLAY MIDTH

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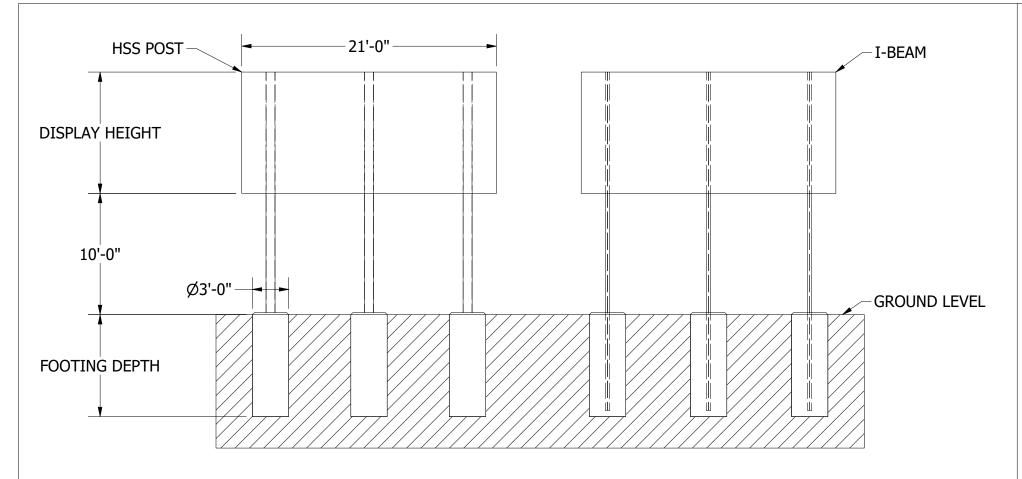
EXPOSURE C: OPEN TERRAIN WITH SCATTERED OBSTRUCTIONS HAVING HEIGHTS GENERALLY LESS THAN 30 FT. THIS CATEGORY INCLUDES FLAT OPEN COUNTRY, GRASSLANDS, AND ALL WATER SURFACES IN HURRICANE PRONE AREAS.

				REVISION HIST	ORY			
	REV	DESC	RIP	TION	DATE		APPROV	ED
	Α	INITIAL	_ RE	ELEASE	2021-11-	10	RD	
5	PART NUMBER: N/A	<b>A</b>		OES	Londo Tel: (	on, ON (519) 6	Road, I, N6L 1P7 652-5833 652-3795	
5	NOTICE TO PERSON RECEIVING TECHNICAL INFORMATION: OES INC. CLAIMS PROPERTY R DISCLOSED HEREIN. THIS DRAY UNPUBLISHED PROPRIETARY N	IGHTS TO THE MATERIAL WINGS INCLUDES	DESC	SCOREBOARDS POST & FOOT	Email	i: oeś@ E - 20	0' WIDTH	
<b>5</b>	OES INC. AND AS SUCH IS NOT REPRODUCED OR USED IN AN WRITTEN AUTHORIZATION FRO TOLERANCE INFORMATION Dimensions are in inches	WAY WITHOUT PRIOR M OES INC.  THIRD ANGLE	SIZE	Post Guide	7ION INSTF 20'.idw	INIT D	RAWING DATE	REV
<u> </u>	Fractional ± 1/16"  Two Place Decimals ± 0.02"  Three Place Decimals ± 0.005"  Four Place Decimals ± 0.0065"	PROJECTION	В	USAGE				A

SCALE NTS

| PAGE 1 OF 1

DRAWN BY rdonald



				POST & FOOTIN	NG GUIDE (21' D	ISPLAY WIDTH	)		
DISPLAY HEIGHT	WIND SPEED>	EXPOSURE B 90 MPH	EXPOSURE B 110 MPH	EXPOSURE B 130 MPH	EXPOSURE B 150 MPH	EXPOSURE C 90 MPH	EXPOSURE C 110 MPH	EXPOSURE C 130 MPH	EXPOSURE C 150 MPH
	I-BEAM	W6X9	W6X9	W6X12	W8X13	W6X9	W6X12	W10X15	W10X15
6'	HSS POST	HSS5X5X1/8	HSS5X5X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS5X5X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16
	FOOTING	3'X4.36'	3'X5.05'	3'X5.71'	3'X6.34'	3'X5.02'	3'X5.81'	3'X6.58'	3'X7.32'
	I-BEAM	W6X9	W8X13	W10X15	W10X15	W6X12	W10X15	W12X16	W12X19
8'	HSS POST	HSS5X5X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS9X9X3/16	HSS6X6X3/16	HSS8X8X3/16	HSS9X9X3/16	HSS9X9X1/4
	FOOTING	3'X5'	3'X5.79'	3'X6.55'	3'X7.29'	3'X5.74'	3'X6.65'	3'X7.54'	3'X8.39'
	I-BEAM	W6X12	W10X15	W12X16	W12X19	W8X13	W12X16	W12X19	W14X22
10'	HSS POST	HSS6X6X3/16	HSS7X7X3/16	HSS9X9X3/16	HSS9X9X1/4	HSS7X7X3/16	HSS9X9X3/16	HSS9X9X1/4	HSS10X10X1/4
	FOOTING	3'X5.59'	3'X6.47'	3'X7.32'	3'X8.15'	3'X6.39'	3'X7.42'	3'X8.41'	3'X9.36'
	I-BEAM	W8X13	W10X15	W12X19	W12X22	W10X15	W12X19	W14X22	W16X26
12'	HSS POST	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X1/4	HSS10X10X1/4	HSS8X8X3/16	HSS9X9X1/4	HSS10X10X1/4	HSS12X12X1/4
	FOOTING	3'X6.14'	3'X7.11'	3'X8.05'	3'X8.96'	3'X7.01'	3'X8.13'	3'X9.22'	3'X10.27'
	I-BEAM	W10X15	W12X16	W12X22	W12X26	W12X16	W12X22	W16X26	W16X31
14'	HSS POST	HSS8X8X3/16	HSS9X9X3/16	HSS10X10X1/4	HSS12X12X1/4	HSS9X9X3/16	HSS10X10X1/4	HSS12X12X1/4	HSS12X12X5/16
	FOOTING	3'X6.66'	3'X7.72'	3'X8.74'	3'X9.73'	3'X7.59'	3'X8.81'	3'X9.98'	3'X11.13'
	I-BEAM	W12X16	W12X19	W12X26	W14X30	W12X19	W12X26	W14X30	W18X35
16'	HSS POST	HSS9X9X3/16	HSS9X9X1/4	HSS12X12X1/4	HSS12X12X1/4	HSS9X9X1/4	HSS12X12X1/4	HSS12X12X5/16	HSS14X14X5/16
	FOOTING	3'X7.16'	3'X8.3'	3'X9.4'	3'X10.47'	3'X8.14'	3'X9.45'	3'X10.72'	3'X11.95'
	I-BEAM	W12X16	W14X22	W16X26	W14X34	W12X22	W16X26	W18X35	W18X40
18'	HSS POST	HSS9X9X3/16	HSS10X10X1/4	HSS12X12X1/4	HSS12X12X5/16	HSS10X10X1/4	HSS12X12X1/4	HSS12X12X5/16	HSS14X14X5/16
	FOOTING	3'X7.65'	3'X8.86'	3'X10.04'	3'X11.18'	3'X8.67'	3'X10.07'	3'X11.42'	3'X12.73'
	I-BEAM	W12X19	W12X26	W16X31	W18X35	W14X22	W16X31	W16X40	W21X44
20'	HSS POST	HSS9X9X1/4	HSS12X12X1/4	HSS12X12X5/16	HSS14X14X5/16	HSS12X12X1/4	HSS12X12X5/16	HSS14X14X5/16	HSS16X16X5/16
	FOOTING	3'X8.12'	3'X9.41'	3'X10.65'	3'X11.87'	3'X9.19'	3'X10.67'	3'X12.1'	3'X13.49'

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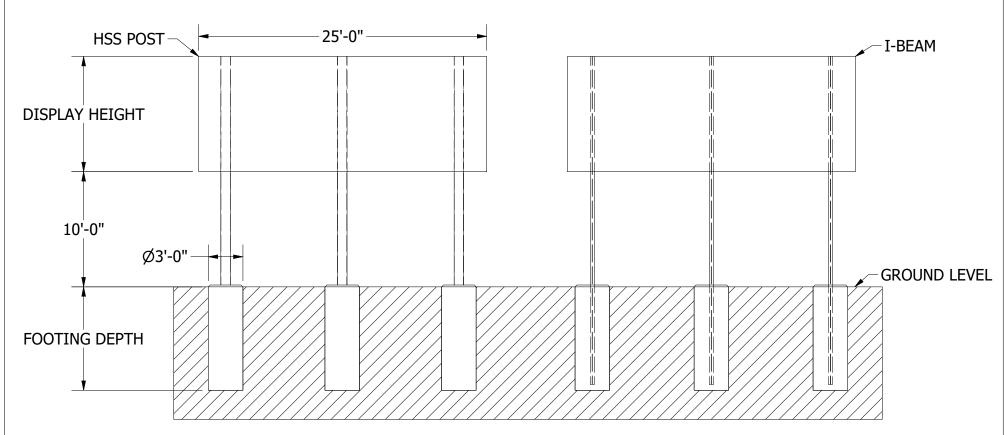
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		REVISION HISTORY									
	REV	DESC	RIP	TION	DATE A		APPROV	ED			
A INITIAI				LEASE	2021-11-	-10	RD				
PART NUME	BER: N/A	4		DES	Lond	,	Road, , N6L 1P7 52-5833				
 NOTICE TO PERSO TECHNICAL INFOR		G THIS DRAWING AND	DESC	SCOREBOARDS	Fax: Ema		52-3795 Does-inc.com				
 DISCLOSED HEREI UNPUBLISHED PRO OES INC. AND AS S	N. THIS DRAY OPRIETARY N SUCH IS NOT	MATERIAL DEVELOPED BY		POST & FOOT INSTALLAT							
WRITTEN AUTHOR TOLERANCE INFOR Dimensions are in inc	MATION	THIRD ANGLE	SIZE	Post Guide	21'.idw		RAWING DATE 21-11-10	REV			
Fractional ± 1/16"  Two Place Decimals ± 0.02"	,,,,,,	PROJECTION	В	USAGE				A			

SCALE NTS

DRAWN BY rdonald

PAGE 1 OF 1



	POST & FOOTING GOIDE (25' DISPLAY WIDTH)										
DISPLAY HEIGHT	WIND SPEED>	EXPOSURE B 90 MPH	EXPOSURE B 110 MPH	EXPOSURE B 130 MPH	EXPOSURE B 150 MPH	EXPOSURE C 90 MPH	EXPOSURE C 110 MPH	EXPOSURE C 130 MPH	EXPOSURE C 150 MPH		
	I-BEAM	W6X9	W6X12	W8X13	W10X15	W6X12	W8X13	W10X15	W12X16		
6'	HSS POST	HSS5X5X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X3/16		
	FOOTING	3'X4.65'	3'X5.38'	3'X6.08'	3'X6.77'	3'X5.35'	3'X6.2'	3'X7.02'	3'X7.82'		
	I-BEAM	W6X12	W8X13	W10X15	W12X16	W8X13	W10X15	W12X19	W12X22		
8'	HSS POST	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X1/4	HSS10X10X1/4		
	FOOTING	3'X5.33'	3'X6.17'	3'X6.99'	3'X7.78'	3'X6.12'	3'X7.1'	3'X8.05'	3'X8.97'		
	I-BEAM	W8X13	W10X15	W12X16	W12X22	W10X15	W12X19	W12X22	W12X26		
10'	HSS POST	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X3/16	HSS9X9X1/4	HSS8X8X3/16	HSS8X8X1/4	HSS10X10X1/4	HSS12X12X1/4		
	FOOTING	3'X5.96'	3'X6.9'	3'X7.82'	3'X8.7'	3'X6.82'	3'X7.92'	3'X8.98'	3'X10.01'		
	I-BEAM	W10X15	W12X16	W12X22	W12X26	W12X16	W12X22	W12X26	W16X31		
12'	HSS POST	HSS8X8X3/16	HSS9X9X3/16	HSS9X9X1/4	HSS12X12X1/4	HSS9X9X3/16	HSS10X10X1/4	HSS12X12X1/4	HSS12X12X5/16		
l	FOOTING	3'X6.54'	3'X7.59'	3'X8.59'	3'X9.57'	3'X7.47'	3'X8.68'	3'X9.84'	3'X10.98'		
	I-BEAM	W10X15	W12X19	W14X22	W16X26	W12X19	W14X22	W14X30	W18X35		
14'	HSS POST	HSS8X8X3/16	HSS9X9X1/4	HSS10X10X1/4	HSS12X12X1/4	HSS9X9X1/4	HSS12X12X1/4	HSS12X12X1/4	HSS14X14X5/16		
	FOOTING	3'X7.1'	3'X8.23'	3'X9.33'	3'X10.39'	3'X8.09'	3'X9.4'	3'X10.66'	3'X11.89'		
	I-BEAM	W12X16	W12X22	W16X26	W16X31	W12X22	W16X26	W18X35	W18X40		
16'	HSS POST	HSS9X9X3/16	HSS10X10X1/4	HSS12X12X1/4	HSS12X12X5/16	HSS10X10X1/4	HSS12X12X1/4	HSS12X12X5/16	HSS14X14X5/16		
	FOOTING	3'X7.64'	3'X8.86'	3'X10.03'	3'X11.18'	3'X8.69'	3'X10.09'	3'X11.45'	3'X12.77'		
	I-BEAM	W12X19	W12X26	W16X31	W18X35	W14X22	W16X31	W16X40	W21X44		
18'	HSS POST	HSS9X9X1/4	HSS12X12X1/4	HSS12X12X5/16	HSS14X14X5/16	HSS12X12X1/4	HSS12X12X5/16	HSS14X14X5/16	HSS16X16X5/16		
	FOOTING	3'X8.15'	3'X9.46'	3'X10.72'	3'X11.94'	3'X9.25'	3'X10.75'	3'X12.2'	3'X13.61'		
	I-BEAM	W12X22	W16X26	W18X35	W18X40	W16X26	W18X35	W21X44	W21X50		
20'	HSS POST	HSS10X10X1/4	HSS12X12X1/4	HSS12X12X5/16	HSS14X14X5/16	HSS12X12X1/4	HSS14X14X5/16	HSS16X16X5/16	HSS16X16X3/8		
	FOOTING	3'X8.65'	3'X10.04'	3'X11.38'	3'X12.68'	3'X9.8'	3'X11.39'	3'X12.93'	3'X14.42'		

DOST & FOOTING CHIDE (25' DISDLAY WIDTH)

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#### **OTHER NOTES:**

- 1. DISPLAY HEIGHT AND DISPLAY WIDTH ARE MADE UP OF ANY COMBINATION OF SCOREBOARDS, AD PANELS, OR TRUSSES.
- 2. FOR DISPLAY HEIGHTS OR WIND SPEEDS BETWEEN THE TABULATED VALUES, ROUND UP TO THE NEXT LARGEST DISPLAY HEIGHT AND/OR WIND SPEED TO ESTIMATE POST REOUIREMENTS.
- 3. ASSUMPTIONS:
- SCOREBOARD IS MOUNTED ON THREE POSTS.
- BOTTOM OF THE SCOREBOARD IS 10' ABOVE GROUND LEVEL.
- FOOTING DEPTH CALCULATED USING A 3' FOOTING DIAMETER.
- POSTS ARE ASSUMED TO BE A36 (36KSI) STEEL.
- SOIL LATERAL BEARING PRESSURE IS TAKEN AS 100 PSF.
- 4. POST SIZING CALCULATIONS PERFORMED ACCORDING TO ASCE7-10. I-BEAM AND TUBE PROPERTIES FROM AISC VERSION 13.0 CD DATABASE AND AISC 13TH EDITION MANUAL.
- 5. FOR A POST & FOOTING ESTIMATE USING CUSTOM PARAMETERS, PLEASE CONTACT OES.

#### EXPOSURE CATEGORIES - GENERAL DEFINITIONS:

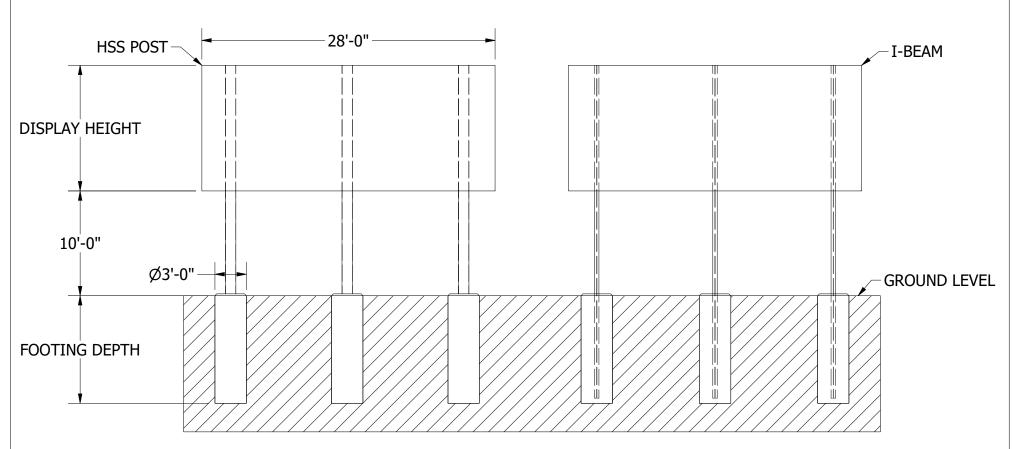
EXPOSURE B: URBAN AND SUBURBAN AREAS, WOODED AREAS, OR OTHER TERRAIN WITH NUMEROUS CLOSELY SPACED OBSTRUCTIONS HAVING THE SIZE OF SINGLE-FAMILY DWELLINGS OR LARGER. THESE AREAS PREVAIL IN THE UPWIND DIRECTION FOR A DISTANCE OF 2600 FT OR 20 TIMES THE STRUCTURE HEIGHT, WHICHEVER IS GREATER.

EXPOSURE C: OPEN TERRAIN WITH SCATTERED OBSTRUCTIONS HAVING HEIGHTS GENERALLY LESS THAN 30 FT. THIS CATEGORY INCLUDES FLAT OPEN COUNTRY, GRASSLANDS, AND ALL WATER SURFACES IN HURRICANE PRONE AREAS.

			F	REVISION HIST	ORY			
	REV	DESC	RIP	TION	DATE		APPROVE	ED
	Α	INITIAL	RE	LEASE	2021-11-	10	RD	
PART NUMBER: N/A  NOTICE TO PERSON RECEIVING THIS DRAWING AND TECHNICAL INFORMATION:  DES INC. CLAIMS PROPERTY RIGHTS TO THE MATERIAL DISCLOSED HEREIN. THIS DRAWINGS INCLUDES UNPUBLISHED PROPRIETARY MATERIAL DEVELOPED BY			DESC	SCOREBOARDS RIPTION POST & FOOT INSTALLAT	Londo Tel: Fax: Emai	(519) 6 (519) 6 I: oes@ E - 2!	, N6L 1P7 52-5833 52-3795 Does-inc.com	
OES INC. AND AS SUCH IS NOT TO BE COPIED, REPRODUCED OR USED IN ANY WAY WITHOUT PRIOR WRITTEN AUTHORIZATION FROM OES INC.			SIZE	FILENAME	TON INSTI		RAWING DATE	REV
TOLERANCE INFOR Dimensions are in inc Fractional ± 1/16" Two Place Decimals ± 0.02"	hes	THIRD ANGLE PROJECTION	В	Post Guide 2	25'.idw		21-11-10	A
Three Place Decimals ± 0.005	5*	1 444						

SCALE NTS

DRAWN BY rdonald



				POST & FOOTIN	NG GUIDE (28' D	ISPLAY WIDTH	)		
DISPLAY HEIGHT	WIND SPEED>	EXPOSURE B 90 MPH	EXPOSURE B 110 MPH	EXPOSURE B 130 MPH	EXPOSURE B 150 MPH	EXPOSURE C 90 MPH	EXPOSURE C 110 MPH	EXPOSURE C 130 MPH	EXPOSURE C 150 MPH
	I-BEAM	W6X9	W6X12	W8X13	W10X15	W6X12	W8X13	W10X15	W12X19
6'	HSS POST	HSS5X5X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X1/4
	FOOTING	3'X4.84'	3'X5.61'	3'X6.35'	3'X7.06'	3'X5.58'	3'X6.47'	3'X7.33'	3'X8.17'
	I-BEAM	W6X12	W8X13	W10X15	W12X19	W8X13	W12X16	W12X19	W14X22
8'	HSS POST	HSS6X6X3/16	HSS7X7X3/16	HSS9X9X3/16	HSS9X9X1/4	HSS7X7X3/16	HSS9X9X3/16	HSS9X9X1/4	HSS10X10X1/4
	FOOTING	3'X5.55'	3'X6.44'	3'X7.29'	3'X8.12'	3'X6.38'	3'X7.41'	3'X8.4'	3'X9.36'
	I-BEAM	W8X13	W10X15	W12X19	W12X22	W10X15	W12X19	W14X22	W16X26
10'	HSS POST	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X1/4	HSS10X10X1/4	HSS8X8X3/16	HSS9X9X1/4	HSS10X10X1/4	HSS12X12X1/4
	FOOTING	3'X6.21'	3'X7.2'	3'X8.15'	3'X9.08'	3'X7.11'	3'X8.26'	3'X9.37'	3'X10.45'
	I-BEAM	W10X15	W12X19	W12X22	W12X26	W12X19	W14X22	W16X26	W14X34
12'	HSS POST	HSS8X8X3/16	HSS9X9X1/4	HSS10X10X1/4	HSS12X12X1/4	HSS9X9X3/16	HSS10X10X1/4	HSS12X12X1/4	HSS12X12X5/16
	FOOTING	3'X6.82'	3'X7.91'	3'X8.97'	3'X9.99'	3'X7.8'	3'X9.06'	3'X10.28'	3'X11.47'
	I-BEAM	W12X16	W12X22	W12X26	W16X31	W12X22	W12X26	W16X31	W16X40
14'	HSS POST	HSS9X9X3/16	HSS9X9X1/4	HSS12X12X1/4	HSS12X12X5/16	HSS9X9X1/4	HSS12X12X1/4	HSS12X12X5/16	HSS14X14X5/16
	FOOTING	3'X7.4'	3'X8.59'	3'X9.73'	3'X10.85'	3'X8.44'	3'X9.81'	3'X11.13'	3'X12.42'
	I-BEAM	W12X19	W14X22	W14X30	W18X35	W14X22	W14X30	W18X35	W21X44
16'	HSS POST	HSS9X9X1/4	HSS10X10X1/4	HSS12X12X1/4	HSS14X14X5/16	HSS10X10X1/4	HSS12X12X1/4	HSS14X14X5/16	HSS16X16X5/16
	FOOTING	3'X7.96'	3'X9.24'	3'X10.47'	3'X11.67'	3'X9.06'	3'X10.53'	3'X11.95'	3'X13.34'
	I-BEAM	W12X22	W16X26	W14X34	W16X40	W12X26	W14X34	W18X40	W21X48
18'	HSS POST	HSS10X10X1/4	HSS12X12X1/4	HSS12X12X5/16	HSS14X14X5/16	HSS12X12X1/4	HSS12X12X5/16	HSS14X14X5/16	HSS16X16X5/16
	FOOTING	3'X8.5'	3'X9.86'	3'X11.18'	3'X12.47'	3'X9.65'	3'X11.22'	3'X12.74'	3'X14.22'
	I-BEAM	W14X22	W14X30	W18X35	W21X44	W16X26	W18X35	W21X44	W21X55
20'	HSS POST	HSS10X10X1/4	HSS12X12X1/4	HSS14X14X5/16	HSS16X16X5/16	HSS12X12X1/4	HSS14X14X5/16	HSS16X16X5/16	HSS16X16X3/8
	FOOTING	3'X9.02'	3'X10.47'	3'X11.87'	3'X13.23'	3'X10.23'	3'X11.89'	3'X13.5'	3'X15.07'

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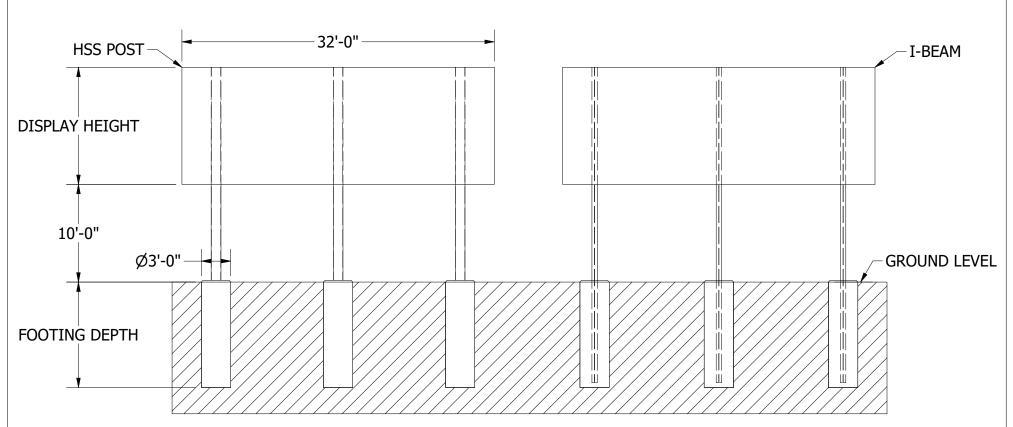
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				F	REVISION HIST	ORY			
		REV	DESC	RIP	TION	DATE		APPROVED	
		Α	INITIAL	RE	LEASE	2021-11	-10	RD	
_	PART NUMBER: N/A  NOTICE TO PERSON RECEIVING THIS DRAWING AND TECHNICAL INFORMATION:				4096 Blakie Road, London, ON, N6L 1P7 Tel: (519) 652-5833 Fax: (519) 652-3795 Email: oes@oes-inc.com				
	OES INC. CLAIMS PROPERTY RIGHTS TO THE MATERIAL DISCLOSED HEREIN. THIS DRAWINGS INCLUDES UNPUBLISHED PROPRIETARY MATERIAL DEVELOPED BY OES INC. AND AS SUCH IS NOT TO BE COPIED, REPRODUCED OR USED IN ANY WAY WITHOUT PRIOR WRITTEN AUTHORIZATION FROM OES INC.				POST & FOOT INSTALLAT		RUC	_	REV
	TOLERANCE INFOR Dimensions are in inc	MATION	THIRD ANGLE PROJECTION	SIZE	Post Guide 2	28'.idw		21-11-10	A

DRAWN BY rdonald

| PAGE 1 OF 1

SCALE NTS



				POST & FOOTIN	NG GUIDE (32' D	ISPLAY WIDTH	)		
DISPLAY HEIGHT	WIND SPEED>	EXPOSURE B 90 MPH	EXPOSURE B 110 MPH	EXPOSURE B 130 MPH	EXPOSURE B 150 MPH	EXPOSURE C 90 MPH	EXPOSURE C 110 MPH	EXPOSURE C 130 MPH	EXPOSURE C 150 MPH
	I-BEAM	W6X9	W8X13	W10X15	W12X16	W8X13	W10X15	W12X16	W12X19
6'	HSS POST	HSS6X6X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X3/16	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X3/16	HSS9X9X1/4
	FOOTING	3'X5.08'	3'X5.89'	3'X6.67'	3'X7.42'	3'X5.86'	3'X6.8'	3'X7.71'	3'X8.59'
	I-BEAM	W8X13	W10X15	W12X16	W12X19	W10X15	W12X16	W12X22	W12X26
8'	HSS POST	HSS7X7X3/16	HSS8X8X3/16	HSS9X9X3/16	HSS9X9X1/4	HSS8X8X3/16	HSS9X9X3/16	HSS10X10X1/4	HSS12X12X1/4
	FOOTING	3'X5.83'	3'X6.76'	3'X7.66'	3'X8.54'	3'X6.7'	3'X7.79'	3'X8.83'	3'X9.85'
	I-BEAM	W10X15	W12X16	W12X22	W14X22	W12X16	W12X22	W12X26	W14X30
10'	HSS POST	HSS8X8X3/16	HSS9X9X3/16	HSS9X9X1/4	HSS12X12X1/4	HSS9X9X3/16	HSS9X9X1/4	HSS12X12X1/4	HSS12X12X5/16
	FOOTING	3'X6.52'	3'X7.57'	3'X8.57'	3'X9.55'	3'X7.47'	3'X8.69'	3'X9.86'	3'X11'
	I-BEAM	W10X15	W12X19	W14X22	W16X26	W12X19	W12X26	W14X30	W18X35
12'	HSS POST	HSS9X9X3/16	HSS9X9X1/4	HSS12X12X1/4	HSS12X12X1/4	HSS9X9X1/4	HSS12X12X1/4	HSS12X12X1/4	HSS14X14X5/16
	FOOTING	3'X7.16'	3'X8.32'	3'X9.43'	3'X10.51'	3'X8.19'	3'X9.52'	3'X10.81'	3'X12.07'
	I-BEAM	W12X19	W14X22	W16X26	W14X34	W12X22	W16X26	W18X35	W21X44
14'	HSS POST	HSS9X9X3/16	HSS10X10X1/4	HSS12X12X1/4	HSS12X12X5/16	HSS10X10X1/4	HSS12X12X1/4	HSS14X14X5/16	HSS14X14X5/16
	FOOTING	3'X7.78'	3'X9.03'	3'X10.24'	3'X11.41'	3'X8.87'	3'X10.32'	3'X11.72'	3'X13.08'
	I-BEAM	W12X22	W12X26	W16X31	W16X40	W12X26	W16X31	W16X40	W21X48
16'	HSS POST	HSS9X9X1/4	HSS12X12X1/4	HSS12X12X5/16	HSS14X14X5/16	HSS12X12X1/4	HSS12X12X5/16	HSS14X14X5/16	HSS16X16X5/16
	FOOTING	3'X8.36'	3'X9.71'	3'X11.01'	3'X12.28'	3'X9.52'	3'X11.07'	3'X12.58'	3'X14.04'
	I-BEAM	W14X22	W14X30	W18X35	W21X44	W16X26	W18X35	W21X44	W21X55
18'	HSS POST	HSS10X10X1/4	HSS12X12X1/4	HSS14X14X5/16	HSS16X16X5/16	HSS12X12X1/4	HSS14X14X5/16	HSS16X16X5/16	HSS16X16X3/8
	FOOTING	3'X8.93'	3'X10.37'	3'X11.76'	3'X13.12'	3'X10.15'	3'X11.8'	3'X13.41'	3'X14.97'
	I-BEAM	W12X26	W16X31	W18X40	W21X48	W16X31	W18X40	W21X48	W24X62
20'	HSS POST	HSS12X12X1/4	HSS12X12X5/16	HSS14X14X5/16	HSS16X16X5/16	HSS12X12X5/16	HSS14X14X5/16	HSS16X16X5/16	HSS16X16X1/2
	FOOTING	3'X9.48'	3'X11.01'	3'X12.49'	3'X13.93'	3'X10.75'	3'X12.51'	3'X14.21'	3'X15.86'

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#### **EXPOSURE CATEGORIES - GENERAL DEFINITIONS:**

EXPOSURE B: URBAN AND SUBURBAN AREAS, WOODED AREAS, OR OTHER TERRAIN WITH NUMEROUS CLOSELY SPACED OBSTRUCTIONS HAVING THE SIZE OF SINGLE-FAMILY DWELLINGS OR LARGER. THESE AREAS PREVAIL IN THE UPWIND DIRECTION FOR A DISTANCE OF 2600 FT OR 20 TIMES THE STRUCTURE HEIGHT, WHICHEVER IS GREATER.

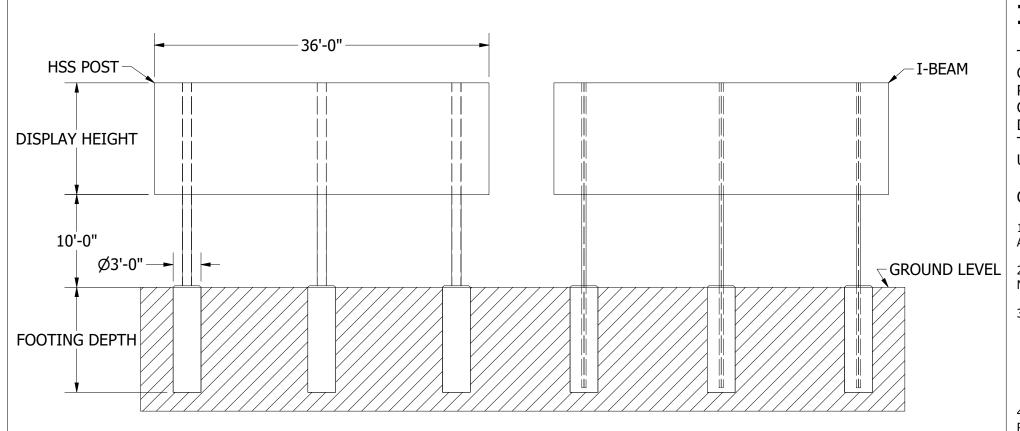
EXPOSURE C: OPEN TERRAIN WITH SCATTERED OBSTRUCTIONS HAVING HEIGHTS GENERALLY LESS THAN 30 FT. THIS CATEGORY INCLUDES FLAT OPEN COUNTRY, GRASSLANDS, AND ALL WATER SURFACES IN HURRICANE PRONE AREAS.

				REVISION HIST	ORY			
	REV	DESC	RIP	TION	DATE		APPROVED	
	Α	INITIAI	RE	LEASE	2021-11	-10	RD	
PART NUMBER: N/A  NOTICE TO PERSON RECEIVING THIS DRAWING AND				4096 Blakie Road, London, ON, N6L 1P7 Tel: (519) 652-5833 Fax: (519) 652-3795 Email: oes@oes-inc.com				
TECHNICAL INFORMATION:  OES INC. CLAIMS PROPERTY RIGHTS TO THE MATERIAL DISCLOSED HEREIN. THIS DRAWINGS INCLUDES UNPUBLISHED PROPRIETARY MATERIAL DEVELOPED BY OES INC. AND AS SUCH IS NOT TO BE COPIED, REPRODUCED OR USED IN ANY WAY WITHOUT PRIOR				POST & FOOT INSTALLAT	ING GUID	E - 3	2' WIDTH	
WRITTEN AUTHO TOLERANCE INF Dimensions are in Fractional ± 1/16"	ORMATION	OM OES INC.  THIRD ANGLE PROJECTION	size B	Post Guide	32'.idw		RAWING DATE 21-11-10	REV A

SCALE NTS

DRAWN BY rdonald

PAGE 1 OF 1



	FOST & TOOTING GOIDE (50 DISPEAT WIDTH)									
DISPLAY HEIGHT	WIND SPEED>	EXPOSURE B 90 MPH	EXPOSURE B 110 MPH	EXPOSURE B 130 MPH	EXPOSURE B 150 MPH	EXPOSURE C 90 MPH	EXPOSURE C 110 MPH	EXPOSURE C 130 MPH	EXPOSURE C 150 MPH	
	I-BEAM	W8X13	W10X15	W12X19	W12X22	W10X15	W12X19	W14X22	W16X26	
8'	HSS POST	HSS7X7X3/16	HSS8X8X3/16	HSS8X8X1/4	HSS10X10X1/4	HSS8X8X3/16	HSS9X9X1/4	HSS10X10X1/4	HSS12X12X1/4	
	FOOTING	3'X6.09'	3'X7.07'	3'X8.01'	3'X8.93'	3'X7'	3'X8.14'	3'X9.24'	3'X10.31'	
	I-BEAM	W10X15	W12X19	W12X22	W12X26	W12X16	W12X22	W16X26	W16X31	
10'	HSS POST	HSS8X8X3/16	HSS8X8X1/4	HSS10X10X1/4	HSS12X12X1/4	HSS9X9X3/16	HSS10X10X1/4	HSS12X12X1/4	HSS12X12X5/16	
	FOOTING	3'X6.81'	3'X7.91'	3'X8.96'	3'X9.99'	3'X7.81'	3'X9.08'	3'X10.31'	3'X11.51'	
	I-BEAM	W12X16	W12X22	W12X26	W16X31	W12X22	W12X26	W16X31	W16X40	
12'	HSS POST	HSS9X9X3/16	HSS10X10X1/4	HSS12X12X1/4	HSS12X12X5/16	HSS9X9X1/4	HSS12X12X1/4	HSS12X12X5/16	HSS14X14X5/16	
	FOOTING	3'X7.48'	3'X8.69'	3'X9.86'	3'X10.99'	3'X8.56'	3'X9.96'	3'X11.31'	3'X12.63'	
	I-BEAM	W12X19	W12X26	W14X30	W18X35	W14X22	W14X30	W16X40	W21X44	
14'	HSS POST	HSS9X9X1/4	HSS12X12X1/4	HSS12X12X1/4	HSS14X14X5/16	HSS10X10X1/4	HSS12X12X5/16	HSS14X14X5/16	HSS16X16X5/16	
	FOOTING	3'X8.12'	3'X9.44'	3'X10.71'	3'X11.94'	3'X9.27'	3'X10.79'	3'X12.26'	3'X13.69'	
	I-BEAM	W12X22	W16X26	W18X35	W18X40	W16X26	W18X35	W21X44	W18X55	
16'	HSS POST	HSS10X10X1/4	HSS12X12X1/4	HSS12X12X5/16	HSS14X14X5/16	HSS12X12X1/4	HSS14X14X5/16	HSS16X16X5/16	HSS16X16X3/8	
	FOOTING	3'X8.74'	3'X10.15'	3'X11.52'	3'X12.85'	3'X9.95'	3'X11.58'	3'X13.16'	3'X14.7'	
	I-BEAM	W12X26	W16X31	W16X40	W21X44	W14X30	W16X40	W21X48	W24X62	
18'	HSS POST	HSS12X12X1/4	HSS12X12X5/16	HSS14X14X5/16	HSS16X16X5/16	HSS12X12X1/4	HSS14X14X5/16	HSS16X16X5/16	HSS16X16X1/2	
	FOOTING	3'X9.33'	3'X10.84'	3'X12.3'	3'X13.72'	3'X10.6'	3'X12.34'	3'X14.03'	3'X15.67'	
	I-BEAM	W16X26	W18X35	W21X44	W18X55	W18X35	W21X44	W21X55	W21X68	
20'	HSS POST	HSS12X12X1/4	HSS14X14X5/16	HSS16X16X5/16	HSS16X16X3/8	HSS12X12X5/16	HSS16X16X5/16	HSS16X16X3/8	HSS16X16X1/2	
	FOOTING	3'X9.9'	3'X11.51'	3'X13.06'	3'X14.57'	3'X11.24'	3'X13.08'	3'X14.86'	3'X16.61'	
	I-BEAM	W14X30	W16X40	W21X48	W24X62	W18X35	W21X48	W24X62	W24X76	
22'	HSS POST	HSS12X12X1/4	HSS14X14X5/16	HSS16X16X5/16	HSS16X16X1/2	HSS14X14X5/16	HSS16X16X5/16	HSS16X16X1/2	HSS16X16X5/8	
	FOOTING	3'X10.46'	3'X12.16'	3'X13.8'	3'X15.4'	3'X11.85'	3'X13.79'	3'X15.68'	3'X17.52'	

POST & FOOTING GUIDF (36' DISPLAY WIDTH)

#### **IMPORTANT NOTE:**

THIS DRAWING IS INTENDED AS A TOOL FOR ESTIMATING INSTALLATION COSTS ONLY. THE INFORMATION WITHIN HAS NOT BEEN VALIDATED BY A PROFESSIONAL ENGINEER, AND THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION. CONSULT LOCAL BUILDING CODES AND SEEK PROPER STAMPED DRAWINGS PRIOR TO CONSTRUCTION. OES IS NOT RESPONSIBLE FOR DAMAGES TO PROPERTY AND PERSONS IF THE INFORMATION WITHIN THIS DRAWING IS USED BEYOND ITS SCOPE.

#### **OTHER NOTES:**

- 1. DISPLAY HEIGHT AND DISPLAY WIDTH ARE MADE UP OF ANY COMBINATION OF SCOREBOARDS, AD PANELS, OR TRUSSES.
- 2. FOR DISPLAY HEIGHTS OR WIND SPEEDS BETWEEN THE TABULATED VALUES, ROUND UP TO THE NEXT LARGEST DISPLAY HEIGHT AND/OR WIND SPEED TO ESTIMATE POST REQUIREMENTS.
- 3. ASSUMPTIONS:
- SCOREBOARD IS MOUNTED ON THREE POSTS.
- BOTTOM OF THE SCOREBOARD IS 10' ABOVE GROUND LEVEL.
- FOOTING DEPTH CALCULATED USING A 3' FOOTING DIAMETER.
- POSTS ARE ASSUMED TO BE A36 (36KSI) STEEL.
- SOIL LATERAL BEARING PRESSURE IS TAKEN AS 100 PSF.
- 4. POST SIZING CALCULATIONS PERFORMED ACCORDING TO ASCE7-10. I-BEAM AND TUBE PROPERTIES FROM AISC VERSION 13.0 CD DATABASE AND AISC 13TH EDITION MANUAL.
- 5. FOR A POST & FOOTING ESTIMATE USING CUSTOM PARAMETERS, PLEASE CONTACT OES.

#### **EXPOSURE CATEGORIES - GENERAL DEFINITIONS:**

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EXPOSURE C: OPEN TERRAIN WITH SCATTERED OBSTRUCTIONS HAVING HEIGHTS GENERALLY LESS THAN 30 FT. THIS CATEGORY INCLUDES FLAT OPEN COUNTRY, GRASSLANDS, AND ALL WATER SURFACES IN HURRICANE PRONE AREAS.

1		REVISION HISTORY										
	REV	DESC	RIPTION	DATE	APPROVED							
	Α	INITIAI	L RELEASE	2021-11-10	RD							
PART	NUMBER: N	/A	DES	4096 Blakie London, ON Tel: (519) 6 Fax: (519) 6	I, N6L 1P7 552-5833							

SCOREBOARDS

NOTICE TO PERSON RECEIVING THIS DRAWING AND TECHNICAL INFORMATION:

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TOLERANCE INFORMATION Dimensions are in inches

Fractional  $\pm$  1/16" Two Place Decimals  $\pm$  0.02" Three Place Decimals  $\pm$  0.005" Four Place Decimals  $\pm$  0.0005" OES INC.
THIRD ANGLE
PROJECTION

BY WITHOUT PRIOR
OES INC.

THIRD ANGLE
PROJECTION

BY WITHOUT PRIOR
OES INC.

SIZE FILENAME
Post Guide 36'.idw

1 INSTALLATION INSTRUCTIONS

NAT WITHOUT PRIOR
OES INC.

SIZE FILENAME
Post Guide 36'.idw

2021-11-1

DESCRIPTION

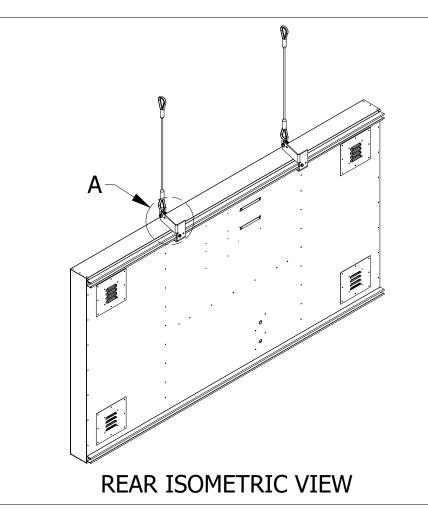
B Post Guide 36'.idw Post Guide 36'.idw 2021-11-10 A

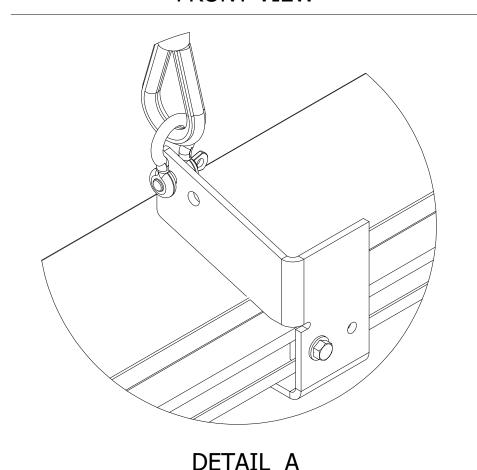
B DRAWN BY rdonald PAGE 1 OF 1

POST & FOOTING GUIDE - 36' WIDTH

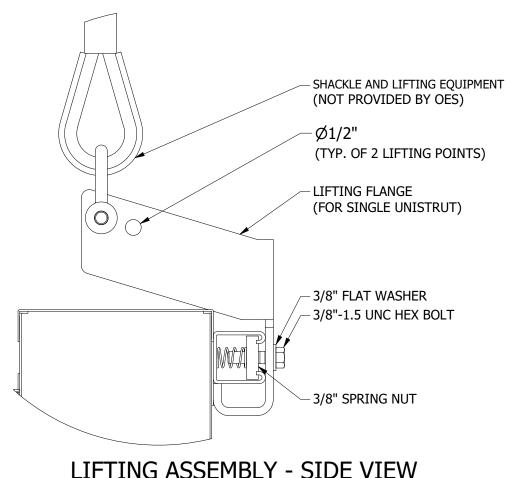
Email: oes@oes-inc.com

# FRONT VIEW





LIFTING ASSEMBLY



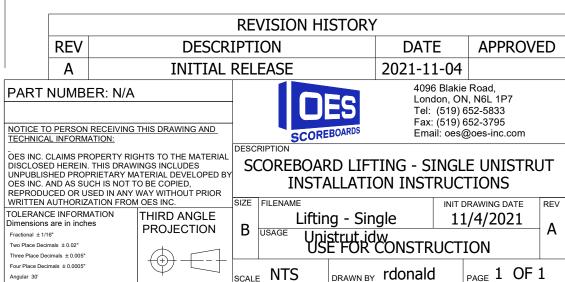
# LIFTING OUTDOOR SCOREBOARDS SMALL SCOREBOARDS (<14' WIDTH)

- 1. INSTALL LIFTING BRACKETS TO THE TOP ROW OF UNISTRUT. USE ALL LIFTING BRACKETS PROVIDED BY OES (TYPICALLY 2). SEE SIDE VIEW DETAIL FOR ASSEMBLY INFO. **IMPORTANT:** INSTALL LIFT BRACKETS TO BE SYMMETRICAL ABOUT THE CENTER OF THE BOARD, AND ENSURE THE LIFT FORCE IS APPLIED VERTICALLY. DO NOT INSTALL LIFTING PLATES IN A LOCATION WHERE THEY COULD INTERFERE WITH MOUNTING TO POSTS.
- 2. ATTACH LIFTING EQUIPMENT TO THE BRACKETS AND LIFT THE SCOREBOARD INTO POSITION. LIFT FORCE MUST BE APPLIED VERTICALLY. ONCE IN POSITION AND LEVEL, MOUNT TO POSTS (SEE I-BEAM OR HSS POST MOUNTING INSTRUCTION FOR MORE DETAIL).
- 3. REMOVE LIFTING BRACKETS, AND REPEAT FOR ANY OTHER COMPONENTS SHIPPED WITH THE SCOREBOARD (AD PANELS, ETC.). ALWAYS START WITH THE BOTTOM COMPONENT AND WORK YOUR WAY UP.

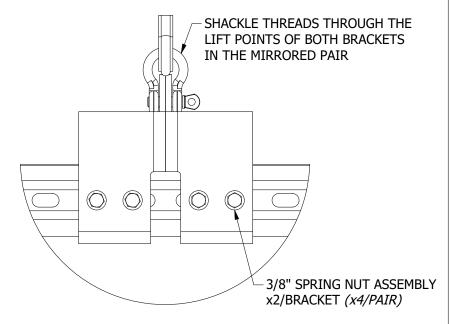
TWO LIFTING BRACKETS CAN BE PROVIDED BY OES, ALONG WITH UNISTRUT MOUNTING HARDWARE. LIFTING EQUIPMENT TO BE PROVIDED BY THE INSTALLER.

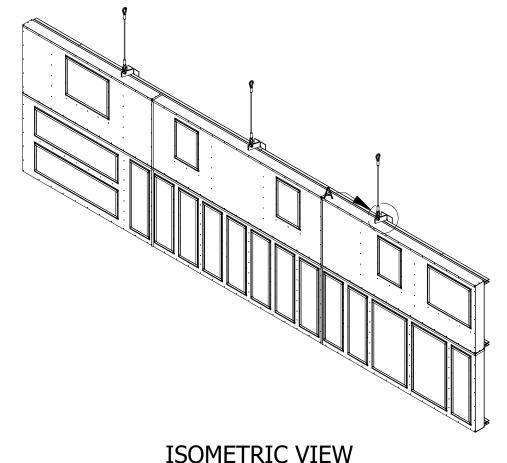
#### **IMPORTANT NOTES:**

- 1. THE INSTALLER IS RESPONSIBLE FOR SOURCING LIFTING EQUIPMENT (SLINGS, CHAINS, ETC.) OF APPROPRIATE RATING FOR THE SCOREBOARD ASSEMBLY. APPROXIMATE SCOREBOARD WEIGHT CAN BE FOUND ON INDIVIDUAL INFO DRAWINGS.
- 2. THE PROVIDED LIFTING BRACKETS ARE ONLY INTENDED TO BE USED WITH A SINGLE ROW OF UNISTRUT. FOR BACK-TO-BACK (DOUBLE) UNISTRUT, A LARGER BRACKET IS NEEDED.
- 3. IF SCOREBOARD COMPONENTS ARE SHIPPED IN SEPARATE PIECES, DO NOT ASSEMBLE BEFORE LIFTING. LIFT AND MOUNT EACH COMPONENT SEPARATELY.
- 4. OES IS NOT RESPONSIBLE FOR DAMAGES RESULTING FROM IMPROPER LIFTING OF THE SCOREBOARD.

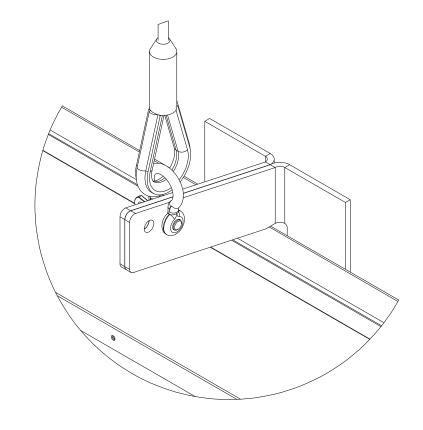


OES OUTDOOR LIFT KITS		
(>14' SCOREBOARDS)		
KIT	# OF	SCOREBOARD
	BRACKETS	WIDTH
LKO-B	4 (2 PAIRS)	14-21'
LKO-C	6 (3 PAIRS)	>21'

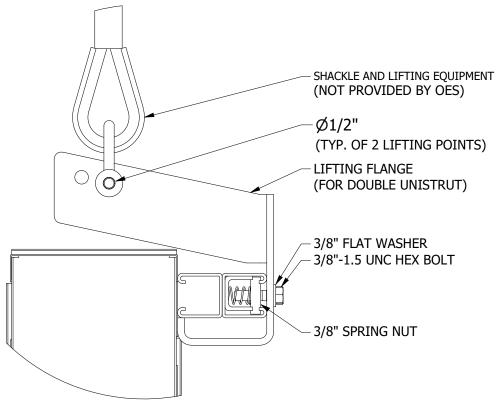




#### **BRACKET ATTACHMENT POINT**



DETAIL A LIFTING ASSEMBLY



LIFTING ASSEMBLY - SIDE VIEW

### LIFTING OUTDOOR SCOREBOARDS LARGE SCOREBOARDS (>14' WIDTH)

NOTE: THE METHOD OUTLINED IN THIS DRAWING REQUIRES AN OES OUTDOOR LIFTING KIT, WHICH CAN BE PURCHASED WITH THE SCOREBOARD.

- 1. INSTALL LIFTING BRACKETS ON THE TOP ROW OF UNISTRUT. USE ALL BRACKETS PROVIDED IN THE OES OUTDOOR LIFTING KIT. SEE SIDE VIEW FOR ASSEMBLY INFO. **IMPORTANT:** LIFTING BRACKETS TO BE INSTALLED IN MIRRORED PAIRS AS SHOWN IN DETAIL A. DISTRIBUTE PAIRS EVENLY ALONG SCOREBOARD WIDTH. LIFT FORCE MUST BE APPLIED VERTICALLY.
- 2. ATTACH LIFTING EQUIPMENT TO THE BRACKETS AND LIFT THE SCOREBOARD INTO POSITION. LIFT FORCE MUST BE APPLIED VERTICALLY. ONCE IN POSITION AND LEVEL, MOUNT TO POSTS (SEE I-BEAM OR HSS POST MOUNTING INSTRUCTION FOR MORE DETAIL). REMOVE LIFTING BRACKETS ONCE SCOREBOARD IS ATTACHED TO POSTS.

LIFTING BRACKET KIT CAN BE PURCHASED WITH THE SCOREBOARD. KIT INCLUDES LIFTING BRACKETS AND 3/8" ASSEMBLY HARDWARE. SHACKLE AND LIFTING EQUIPMENT TO BE PROVIDED BY THE INSTALLER.

#### IMPORTANT NOTES:

- 1. THE INSTALLER IS RESPONSIBLE FOR SOURCING LIFTING EQUIPMENT OF APPROPRIATE RATING FOR THE SCOREBOARD ASSEMBLY. APPROXIMATE SCOREBOARD WEIGHTS CAN BE FOUND ON INFO DRAWINGS. INSPECT ALL EQUIPMENT AND HARDWARE BEFORE LIFTING.
- 2. ALL PROVIDED LIFTING BRACKETS MUST BE USED TO LIFT THE SCOREBOARD. DISTRIBUTE WEIGHT EVENLY BETWEEN BRACKETS. ALL BRACKETS MUST BE ATTACHED TO THE UNISTRUT USING TWO 3/8" SPRING NUT & BOLT ASSEMBLIES. DO NOT TIGHTEN BOLTS BEYOND 19 FT-LB OF TORQUE.
- 3. THE PROVIDED LIFTING BRACKETS ARE INTENDED TO FOR USE WITH BACK-TO-BACK (DOUBLE) UNISTRUT. FOR SINGLE UNISTRUT, SMALLER BRACKETS ARE NEEDED.
- 4. PROLONGED ENVIRONMENTAL EXPOSURE COULD WEAKEN UNPAINTED BRACKETS. REMOVE BRACKETS AFTER MOUNTING. STORE BRACKETS IN A LOCATION PROTECTED FROM THE ELEMENTS.
- 5. IF SCOREBOARD COMPONENTS ARE SHIPPED IN SEPARATE PIECES, LIFT AND MOUNT EACH COMPONENT SEPARATELY. DO NOT ASSEMBLE BEFORE LIFTING.
- 6. OES IS NOT RESPONSIBLE FOR DAMAGES RESULTING FROM IMPROPER LIFTING OF THE SCOREBOARD.

