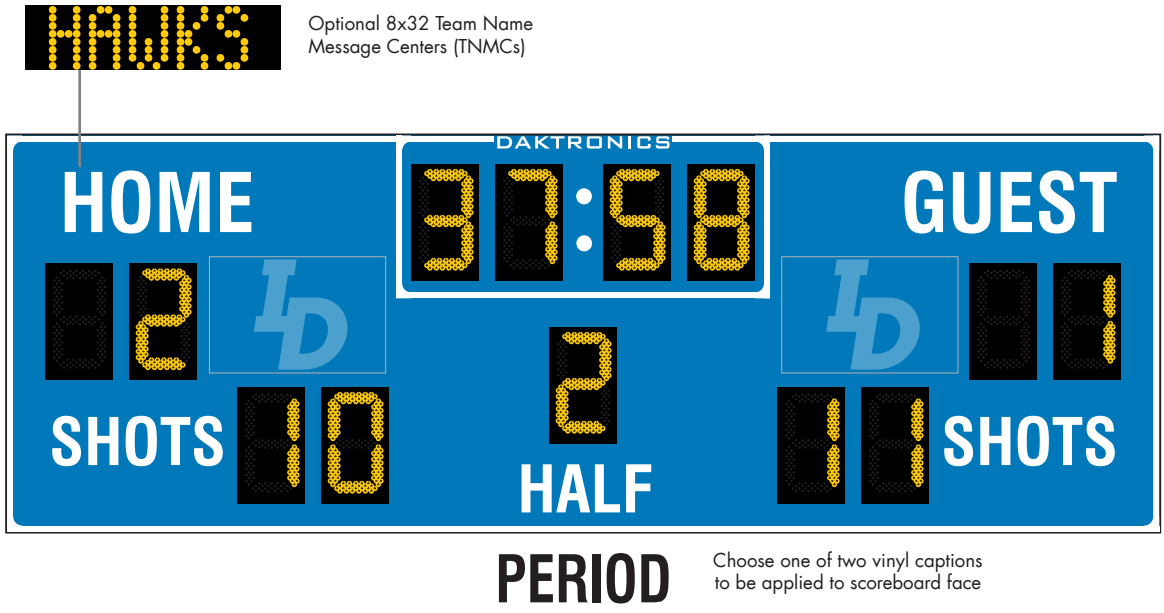
DAKTRONICS SO-2008 PRODUCT SPECIFICATIONS



This outdoor LED soccer scoreboard displays period time to 99:59, HOME and GUEST scores to 99, HALF (or PERIOD) to nine and SHOTS to 99 for both teams. When period time is less than one minute, the scoreboard displays time to 1/10 of a second. Scoreboard shown with optional striping and amber PanaView® digits.

		VINYL CAPTIONS (STANDARD)	TNMCS & VINYL CAPTIONS
POWER (120 VAC)*	Red/Amber Digits	170 Watts, 1.5 Amps	240 Watts, 2.0 Amps
	White Digits	370 Watts, 3.1 Amps	530 Watts, 4.5 Amps
UNCRATED WEIGHT		300 lb (136 kg)	380 lb (172 kg)
DIMENSIONS		5'-6" H x 16'-0" W x 8" D (1.68 m, 4.88 m, 203 mm)	

**Scoreboard requires a dedicated circuit. Models with 240 VAC power at half the indicated amperage are also offered (International Use Only).*

DIGITS
- All digits are 18" (457 mm) high.
- Select red, amber, or white LED digits.
- Scoreboard features robust weather-sealed digits (see DD2495646).
- Digits may be dimmed for night viewing.

CAPTIONS
- HOME and GUEST captions are 10" (254 mm) high. All other captions are 8" (203 mm) high.
- Standard captions are vinyl, applied to the display face.
- Optional TNMCs are 10.6" (269 mm) high.

DISPLAY COLOR
Choose from 150+ colors (from Martin Senour® paint book) at no additional cost.

CONSTRUCTION
Alcoa aluminum alloy 5052 for excellent corrosion resistance

PRODUCT SAFETY APPROVAL
ETL-listed to UL 48, tested to CSA standards, and CE-labeled

OPERATING TEMPERATURES
- Display: -22° to 122° Fahrenheit (-30° to 50° Celsius)
- Console: 32° to 130° Fahrenheit (0° to 54° Celsius)

WWW.DAKTRONICS.COM E-MAIL: SALES@DAKTRONICS.COM

201 Daktronics Drive, PO Box 5128, Brookings, SD 57006
Phone: 1-800-325-8766 or 605-692-0200 Fax: 605-697-4746

DAKTRONICS®

DAKTRONICS SO-2008 PRODUCT SPECIFICATIONS

CONTROL CONSOLE	CONTROL OPTIONS
All Sport® 5000 (see SL-03991)	***Wired (standard):*** One-pair shielded cable of 22 AWG minimum is required. A cover plate with mounted connector and standard 2" x 4" x 2" (51 mm x 102 mm x 51 mm) outlet box is provided. Connector mates with signal cable from control console.
	Wireless (optional): 2.4 GHz spread spectrum radio features 64 non-interfering channels and 8 broadcast groups (see SL-04370).
DAK Score & MX-1 (see DD3888368)	CUSTOMER-SUPPLIED mobile device or tablet with DAK Score app installed communicates via **Bluetooth®** wireless technology to an MX-1 Interface Box that controls the scoreboard through 2.4 GHz radio or wired connection.

SEGMENT TIMER MODE

The segment timer mode is ideal for keeping practices on schedule. The horn at the end of a segment allows coaches and athletes to focus on the practice and to listen for the horn when it is time to change drills (see SL-04004).

TIME OF DAY MODE

This scoreboard features a Time of Day (TOD) mode that allows it to act as a clock when the control console is unplugged or off. Refer to the scoreboard installation manual for instructions on how to enable the Time of Day mode.

MOUNTING

Scoreboard is typically mounted on two vertical beams or poles. Hardware to mount scoreboard on two beams is included; hardware for more beams is at additional cost. Standard mounting uses I-beam clamps. Optional mounting method using angle brackets is also offered; maximum beam width is 12" (305 mm) and maximum beam depth is 22" (559 mm). Refer to attached drawings for more information on mounting methods.

SERVICE ACCESS

Digit panels and electronics are serviced from the front of the scoreboard.

GENERAL INFORMATION

Scoreboard provides scoring capabilities for two teams. 100% solid state electronics are housed in an all aluminum cabinet. Scoreboard is shipped in one section. Scoreboard power is to be provided on a dedicated circuit to prevent loss of game information due to failure of another component on the circuit. Specifications and pricing are subject to change without notice.

ADVERTISING/IDENTIFICATION PANELS

Backlit & Non-Backlit:

1'-6" H x 16'-0" W (457 mm, 4.88 m)
2'-0" H x 16'-0" W (610 mm, 4.88 m)
2'-6" H x 16'-0" W (762 mm, 4.88 m)
3'-0" H x 16'-0" W (914 mm, 4.88 m)

For additional non-backlit panel sizes, see SL-03761.

OPTIONS & ACCESSORIES

- Scoreboard border striping
- Multiple caption and striping colors (see DD2101644)
- Team name caption in place of HOME *
- Team names on changeable panels *
- Programmable Team Name Message Centers (see DD1696958)
- Baseball and football captions on changeable panels
- Two 1'-7.375" (492 mm) tall x 2'-5.375" (746 mm) wide logo/sponsor areas. Copy is applied to the display face.
- Horn
- Individual digit protective screens (see SL-04939)
- Protective netting (see DD2690927)
- Optional angle bracket mounting method
- Advertising/identification panels
- Decorative accents
- Electronic message centers and video displays in multiple sizes

** Not available with TNMCs*

FOR ADDITIONAL INFORMATION

- Installation Specifications: DWG-1157188 (attached)
- Standard I-beam Mounting: DWG-1052565 (attached)
- LVX I-Beam Mounting: DWG-3918361 (attached)
- Optional Pole Mounting: DWG-1048184 (attached)
- Component Locations (Red/Amber Digits): DWG-1073839 (attached)
- Component Locations (White Digits): DWG-1073851 (attached)
- Architectural Specifications: See SL-05188

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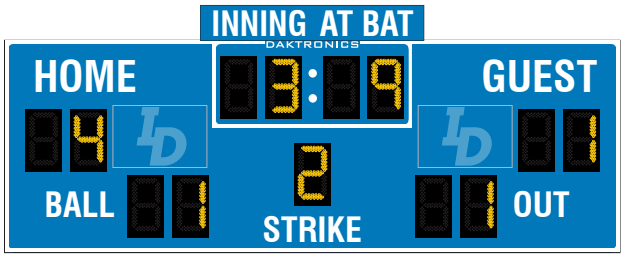
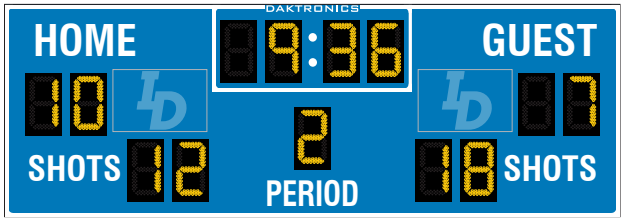
ALTERNATE CAPTIONS & SCORING MODES



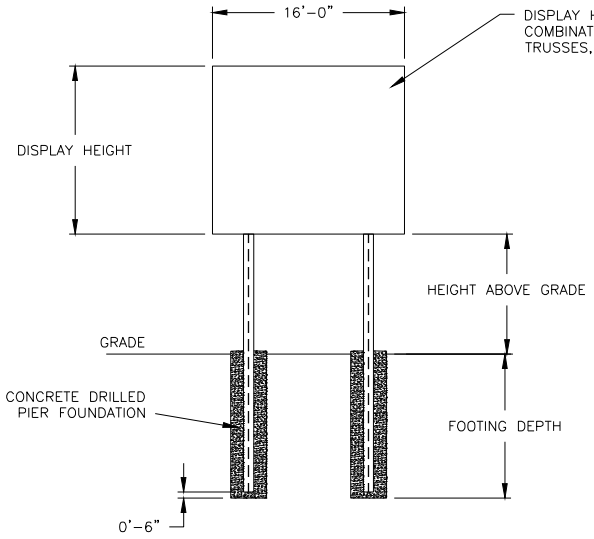
Baseball Mode – Optional caption panels shown (@5)

Football Mode – Optional caption panels shown (@3)

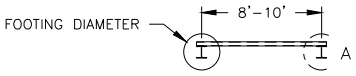


Lacrosse/Field Hockey Mode – Optional PERIOD caption
(applied directly to scoreboard face)

DAKTRONICS

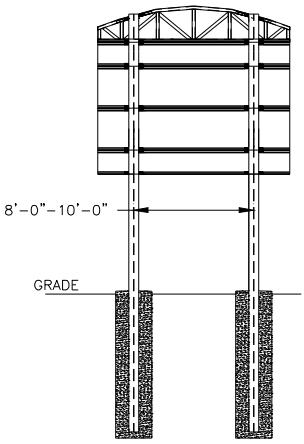


FRONT VIEW

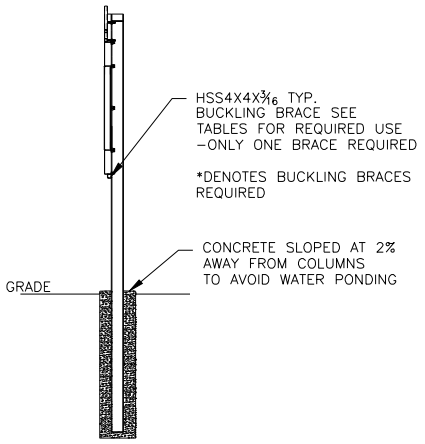


LAYOUT VIEW

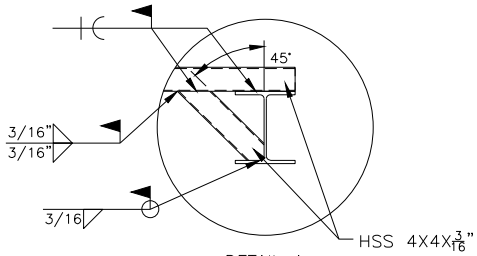
COLUMNS & FOOTING ONLY



REAR VIEW



SIDE VIEW



DETAIL A
SCALE 1:32

TABLE A – MOUNTING

EXPOSURE B

HEIGHT ABOVE GRADE = 10'						HEIGHT ABOVE GRADE = 15'					
DISPLAY HEIGHT (FT)		DESIGN WIND VELOCITY				DISPLAY HEIGHT (FT)		DESIGN WIND VELOCITY			
		115 MPH	130 MPH	150 MPH	170 MPH			115 MPH	130 MPH	150 MPH	170 MPH
6	COLUMN FOOTING	W8X18 2.0'X7.0'	W8X21 2.0'X7.5'	W10X22 3.0'X7.0'	W8X24 2.0'X9.0'	6	COLUMN FOOTING	W8X24 2.0'X8.0'	W12X26 3.0'X7.5'	W8X31 2.0'X9.5'	W10X33 3.0'X9.0'
8	COLUMN FOOTING	W10X22 2.0'X8.0'	W8X24 2.0'X8.5'	W8X28 3.0'X8.5'	W8X31 3.0'X9.0'	8	COLUMN FOOTING	W8X31 3.0'X7.5'	W8X31 2.0'X9.5'	W10X39 3.0'X9.0'	W14X43 3.0'X10.0'
10	COLUMN FOOTING	W12X26 3.0'X7.5'	W12X30 3.0'X8.5'	W10X26* 3.0'X9.0'	W12X26* 3.0'X10.0'	10	COLUMN FOOTING	W12X26* 3.0'X8.5'	W12X30* 3.0'X9.0'	W14X34* 3.0'X10.0'	W12X40* 3.0'X11.0'
12	COLUMN FOOTING	W8X31 2.0'X9.5'	W10X33 3.0'X9.0'	W12X30* 3.0'X10.0'	W14X34* 3.0'X11.0'	12	COLUMN FOOTING	W12X30* 3.0'X9.0'	W14X34* 3.0'X10.0'	W12X40* 3.0'X11.0'	W14X48* 3.0'X12.0'
14	COLUMN FOOTING	W10X26* 3.0'X9.0'	W12X26* 3.0'X10.0'	W14X34* 3.0'X11.0'	W16X36* 3.0'X12.0'	14	COLUMN FOOTING	W14X34* 3.0'X10.0'	W12X40* 3.0'X11.0'	W16X45* 3.0'X12.0'	W18X55* 3.0'X14.0'
16	COLUMN FOOTING	W12X26* 3.0'X9.5'	W14X30* 3.0'X11.0'	W14X38* 3.0'X11.5'	W14X43* 3.0'X13.0'	16	COLUMN FOOTING	W16X36* 3.0'X10.5'	W14X43* 3.0'X11.5'	W21X48* 3.0'X13.0'	W21X55* 3.0'X15.0'

FOOTING DIMENSIONS = DIAMETER X DEPTH
* DENOTES BUCKLING BRACE REQUIRED

EXPOSURE C

HEIGHT ABOVE GRADE = 10'				HEIGHT ABOVE GRADE = 15'			
DISPLAY HEIGHT (FT)		DESIGN WIND VELOCITY		DISPLAY HEIGHT (FT)		DESIGN WIND VELOCITY	
		115 MPH	140 MPH			115 MPH	140 MPH
6	COLUMN FOOTING	W8X21 2.0'X8.0'	W8X24 2.0'X9.0'	6	COLUMN FOOTING	W8X28 2.0'X9.0'	W10X33 3.0'X9.0'
8	COLUMN FOOTING	W8X24 2.0'X9.0'	W8X31 3.0'X9.0'	8	COLUMN FOOTING	W10X33 3.0'X8.5'	W14X43 3.0'X10.0'
10	COLUMN FOOTING	W8X31 2.0'X10.0'	W10X39 3.0'X10.0'	10	COLUMN FOOTING	W12X40 3.0'X9.5'	W10X49 3.0'X11.0'
12	COLUMN FOOTING	W12X26* 3.0'X9.5'	W14X34* 3.0'X11.0'	12	COLUMN FOOTING	W16X36* 3.0'X11.0'	W16X45* 3.0'X12.0'
14	COLUMN FOOTING	W12X30* 3.0'X10.0'	W16X36* 3.0'X12.0'	14	COLUMN FOOTING	W16X40* 3.0'X11.0'	W21X48* 3.0'X13.0'
16	COLUMN FOOTING	W14X34* 3.0'X11.0'	W16X40* 3.0'X13.0'	16	COLUMN FOOTING	W16X45* 3.0'X12.0'	W21X55* 3.0'X15.0'

FOOTING DIMENSIONS = DIAMETER X DEPTH
* DENOTES BUCKLING BRACE REQUIRED

NOTE:
-REFER TO NOTE 7 FOR EXPOSURE CATEGORY DEFINITIONS.

NOTES:

1. FOOTING AND COLUMN SIZES ARE SUGGESTIONS ONLY, PROVIDED TO ASSIST WITH ESTIMATING INSTALLATION COSTS AND ARE NOT INTENDED FOR CONSTRUCTION PURPOSES. THE DESIGN MUST BE CERTIFIED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE INSTALLATION BEFORE THEY CAN BE USED FOR FABRICATION Or ERECTION.

2. INTERNATIONAL BUILDING CODE 2012 USED IN DESIGN OF COLUMNS AND FOOTINGS WITH, IMPORTANCE FACTOR=1, Kzt=1.0, Kd=0.85, G=0.85. SEISMIC DESIGN WAS NOT CONSIDERED.

3. FOOTING DIMENSIONS ARE BASED ON ASSUMED SOIL CLASS 4 (ALLOWABLE LATERAL BEARING PRESSURE OF 150 psf).

4. STRUCTURAL STEEL IS GRADE A992 (50 ksi) STEEL. CONCRETE SHALL HAVE A MINNIMUM 28 DAY COMPRESSIVE STRENGTH OF 2500 psi.

5. THE AVERAGE DISPLAY WEIGHT FOR A LAYOUT CAN NOT EXCEED 8 PSF.

6. DAKTRONICS INC. IS NOT RESPONSIBLE FOR STRUCTURES DESIGNED AND INSTALLED BY OTHERS.

7. LOCAL BUILDING OFFICIALS SHOULD BE CONTACTED TO DETERMINE THE WIND SPEED AND EXPOSURE CATEGORY FOR THE PROPOSED SIGN LOCATION. THE EXPOSURE CATEGORY C IS DEFINED AS:

EXPOSURE B – URBAN AND SUBURBAN AREAS, OR OTHER TERRAIN WITH NUMEROUS SPACED OBSTRUCTIONS HAVING THE SIZE OF SINGLE-FAMILY DWELLINGS OR LARGER. THESE CONDITIONS MUST PREVAIL FOR A DISTANCE FROM THE SIGN OF AT LEAST 2,600 ft OR 20 TIMES THE SIGN 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 REGIONS.

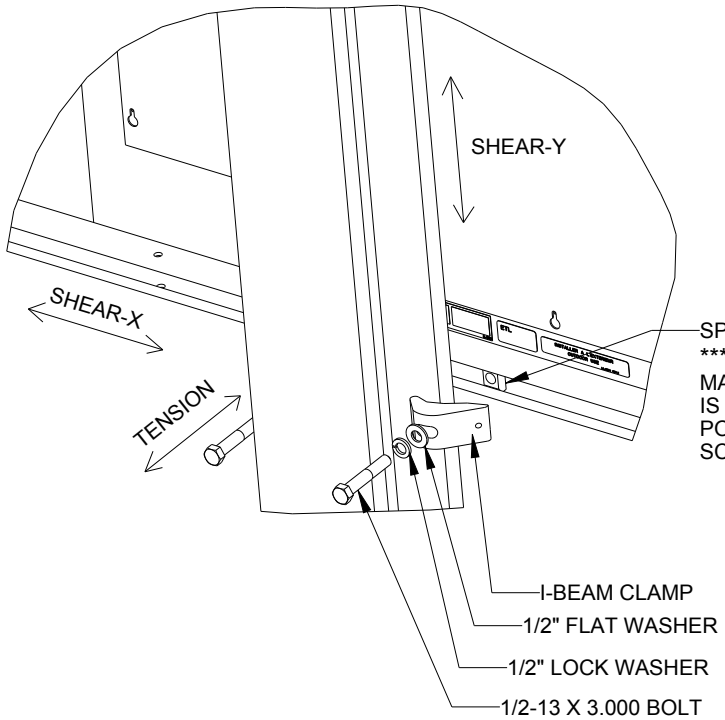
8. FOR SPECIFIC PRODUCT DETAILS ON WEIGHT, MOUNTING, ETC. REFER TO THE INDIVIDUAL PRODUCT SPECIFICATION SHEETS.

REV	DATE:		BY:	
02	27 OCT 15	UPDATED WIDE FLANGE AND FOUNDATION VALUES	AMP	
01	23 JUL 14	UPDATED CLAMPS IN REAR AND SIDE VIEWS AND ADDED 170 MPH WIND SPEC COLUMN	TJT	

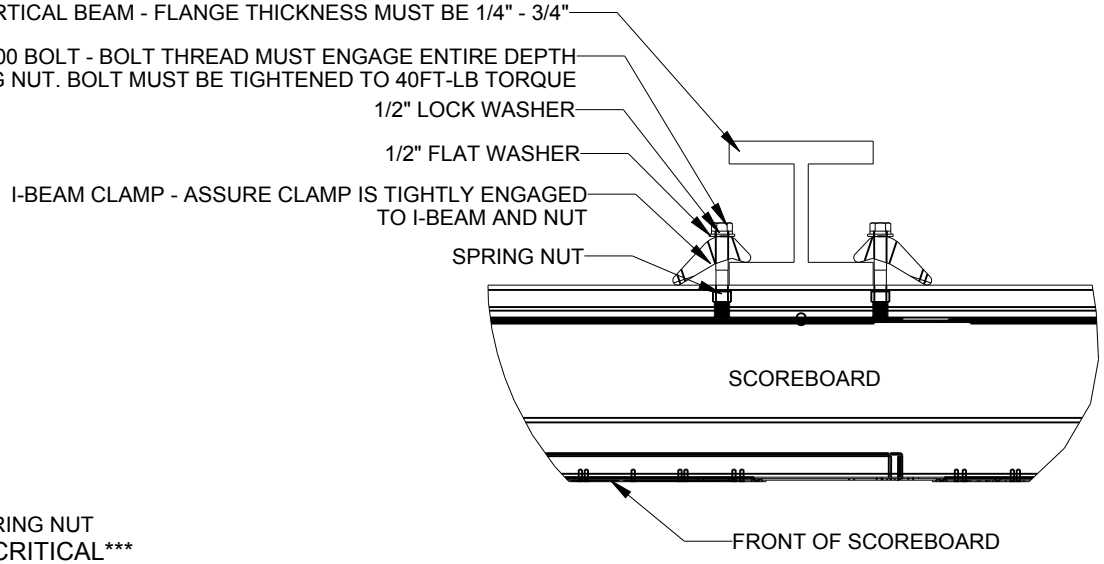
DAKTRONICS, INC.
BROOKINGS, SD 57006
DO NOT SCALE DRAWING

PROJ: OUTDOOR SCOREBOARD INSTALLATION
TITLE: 16' WIDTH SCOREBOARD INSTALLATION SPECS
DESIGN: RSCHWAR | DRAWN: RSCHWAR | DATE: 27 NOV 13
SCALE: 1/16"=1'

SHEET	REV	JOB NO:	FUNC-TYPE-SIZE	
	02	P1647	E-10-A	1157188



EXPLODED REAR ISOMETRIC VIEW



TOP VIEW

CRITICAL
DO NOT USE ANY LUBRICANT
ON ANY MOUNTING HARDWARE
OR WARRANTY WILL BE VOIDED

STANDARD MOUNTING METHOD

MOUNTING INSTRUCTIONS:
1. PLACE SPRING NUTS INTO SCOREBOARD CHANNEL IN APPROXIMATE LOCATION OF VERTICAL BEAMS
2. LIFT SCOREBOARD INTO POSITION
3. MAKE SURE THE 1/2-13 BOLTS ARE AS CLOSE TO THE I-BEAM FLANGES AS POSSIBLE
4. WHEN SCOREBOARD IS ADJUSTED TO FINAL DESIRED POSITION, TIGHTEN BOLTS FIRMLY
5. IF FLANGE THICKNESS IS MORE THAN 3/4" THICK LONGER BOLTS WILL BE REQUIRED AT THE CUSTOMER'S EXPENSE.

STRUCTURAL NOTES

ALLOWABLE CAPACITY PER EACH CLAMP:
SHEAR = 160 LBS
TENSION = 2300 LBS

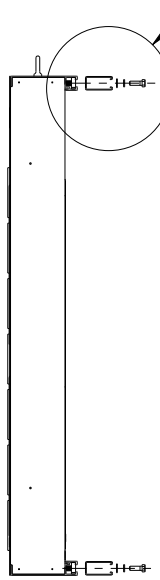
SHEAR AND TENSION LOAD DIRECTION ARE AS INDICATED ON REAR ISOMETRIC VIEW

REV	DATE:		BY:	
05	22 DEC 15	PER EC-22871; ADDED LUBRICANT NOTE	PJS 18704	
04	06 JAN 14	ADDED ALLOWABLE TENSION AND SHEAR CAPACITY DETAILS	JAVA	
03	23 OCT 13	PER EC-12382; CHANGED BOLT TORQUE FROM 30 FT-LB TO 40 FT-LB	NJM	
02	07 MAR 12	ADDED STANDARD MOUNTING METHODS NOTES	KDD	
01	21 FEB 12	CHANGED ROCKER TO I-BEAM	KDD	

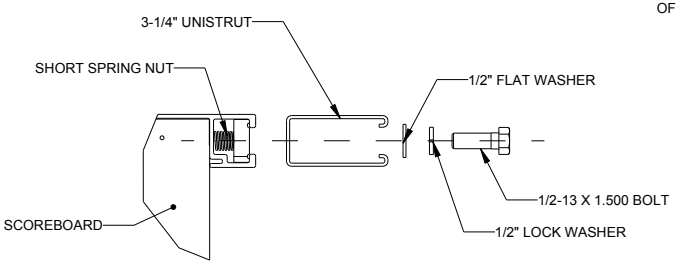
DAKTRONICS

THIRD ANGLE PROJECTION

PROJECT:	OUTDOOR SCOREBOARD			
TITLE:	P1647; I-BEAM CLAMP MOUNTING			
DATE:	22-DEC-15	DIM UNITS: INCHES [MILLIMETERS]	SHEET	REV
SCALE:	1/8	DO NOT SCALE DRAWING	1 OF 1	05
DESIGN:	MCARSRU	JOB NO. / FUNC - TYPE - SIZE		
DRAWN:	MCARSRU	P1647 / E - 07 - A	1052565	

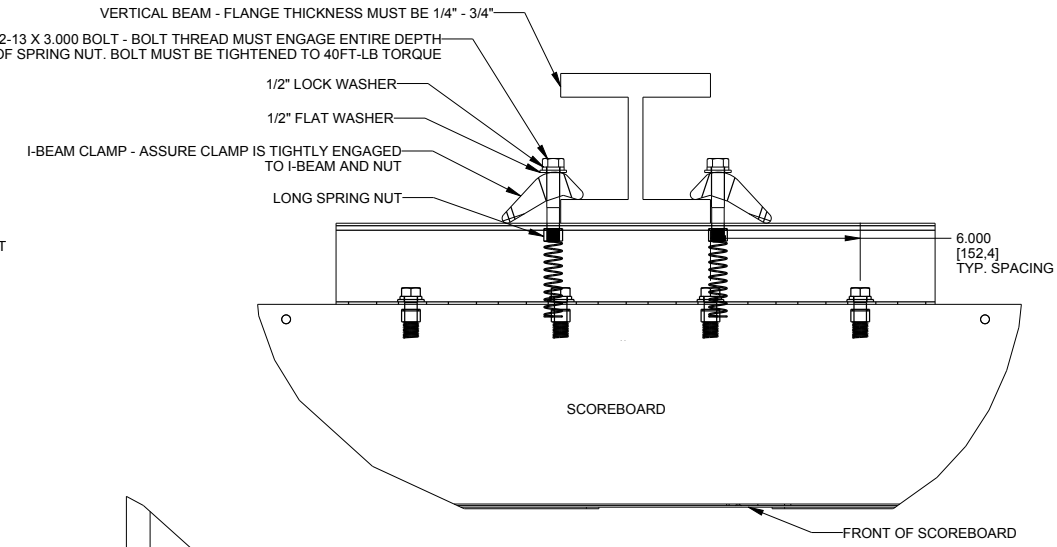


EXPLODED SIDE VIEW
UNISTRUT ATTACHMENT
SCALE 1/15

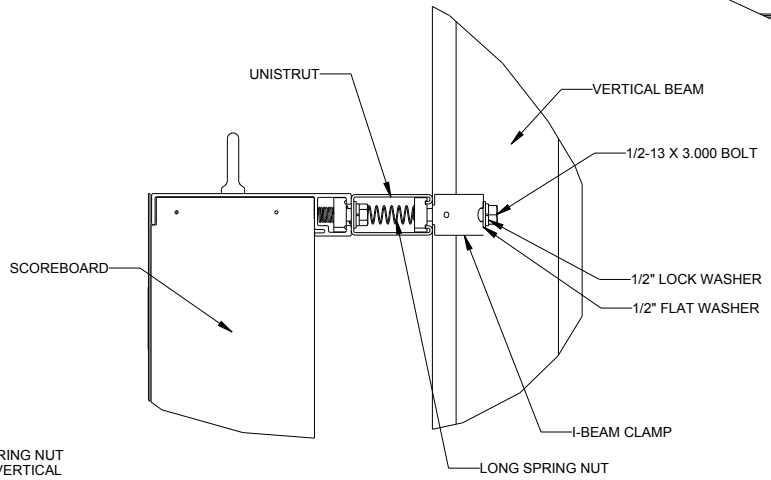


DETAIL A
SCALE 1/4

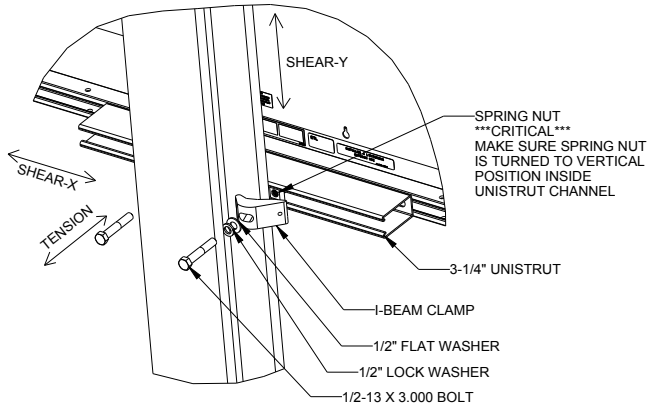
RECOMMENDED METHOD OF INSTALLATION:
- INSTALL 1 1/2" BOLT, 1/2" LOCK WASHER, 1/2" FLAT WASHER USING SHALLOW SOCKET WITH EXTENSION.
- ENTER FRO MSIDE OF UNISTRUT SECURING INSIDE BOLTS FIRST AND MOVING OUTWARD.



TOP VIEW



SIDE VIEW
SCOREBOARD ATTACHEMENT



EXPLODED REAR ROTATED VIEW

SCALE 1/8

STRUCTURAL NOTES

ALLOWABLE CAPACITY PER
COLUMN CONNECTION:
SHEAR = 185 LBS
TENSION = 2400 LBS

SHEAR AND TENSION LOAD
DIRECTION ARE AS INDICATED ON
REAR ISOMETRIC VIEW

STANDARD MOUNTING METHOD

MOUNTING INSTRUCTIONS:
1. PLACE SPRING NUTS INTO SCOREBOARD CHANNEL IN LOCATIONS SHOWN IN TOP VIEW
2. PLACE SPRING NUTS IN UNISTRUT IN APPROXIMATE LOCATION OF VERTICAL BEAMS
2. LIFT SCOREBOARD INTO POSITION
3. MAKE SURE THE 1/2-13 BOLTS ARE AS CLOSE TO THE I-BEAM FLANGES AS POSSIBLE
4. WHEN SCOREBOARD IS ADJUSTED TO FINAL DESIRED POSITION, TIGHTEN BOLTS FIRMLY
5. IF FLANGE THICKNESS IS MORE THAN 3/4" THICK LONGER BOLTS WILL BE REQUIRED AT THE CUSTOMER'S EXPENSE.

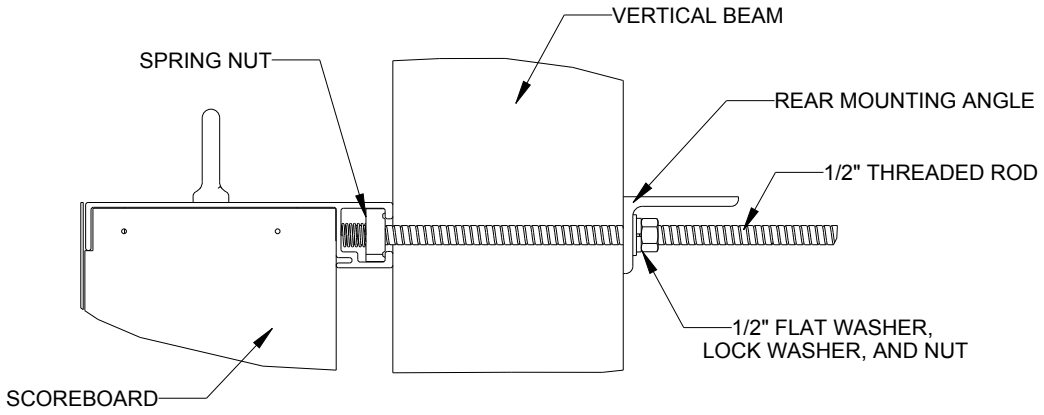
CRITICAL
DO NOT USE ANY LUBRICANT
ON ANY MOUNTING HARDWARE
OR WARRANTY WILL BE VOIDED

REV	DATE:		BY:

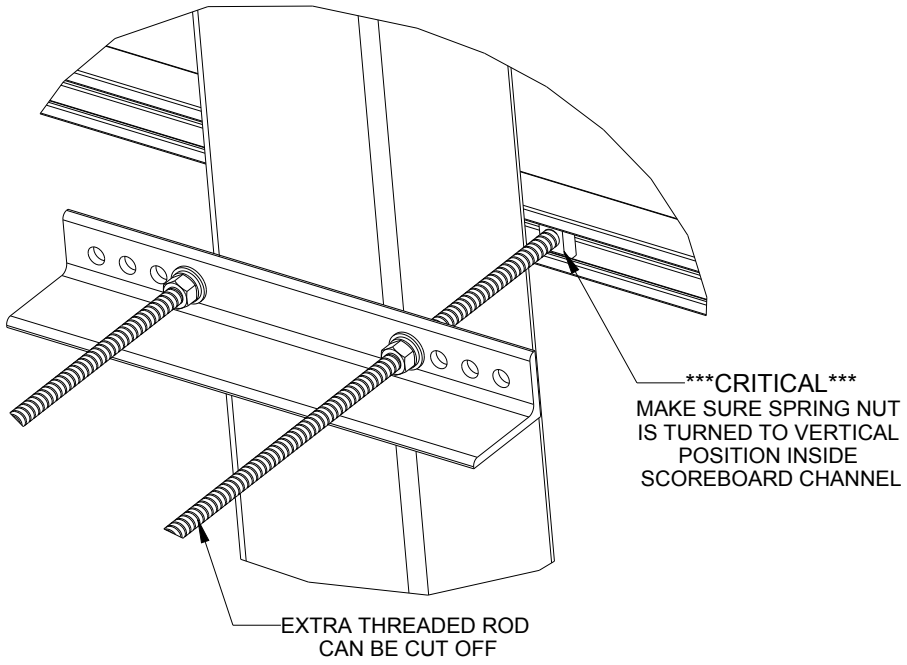
THIRD ANGLE PROJECTION

DAKTRONICS

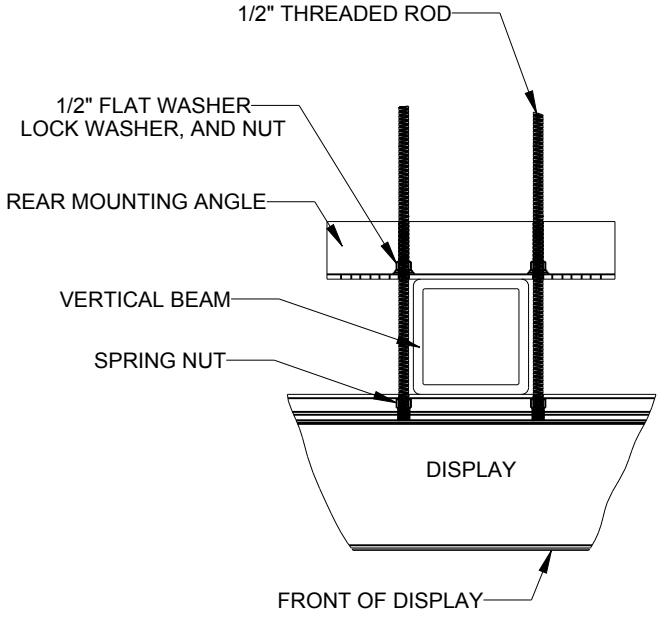
PROJECT:	OUTDOOR SCOREBOARD		
TITLE:	P1647; LVX I-BEAM CLAMP MOUNTING		
DATE: 18-MAY-18	DIM UNITS: INCHES [MILLIMETERS]	SHEET	REV
SCALE: 1/5	DO NOT SCALE DRAWING	1 OF 1	00
DESIGN: KDRAGT	JOB NO. P1647	FUNC - TYPE - SIZE: E - 07 - B	3918361
DRAWN: KDRAGT			



SIDE VIEW



REAR ISOMETRIC VIEW



TOP VIEW
SCALE 1/10

CRITICAL
DO NOT USE ANY LUBRICANT
ON ANY MOUNTING HARDWARE
OR WARRANTY WILL BE VOIDED

STRUCTURAL NOTES:
- BOLT TORQUE: 30 FT-LB

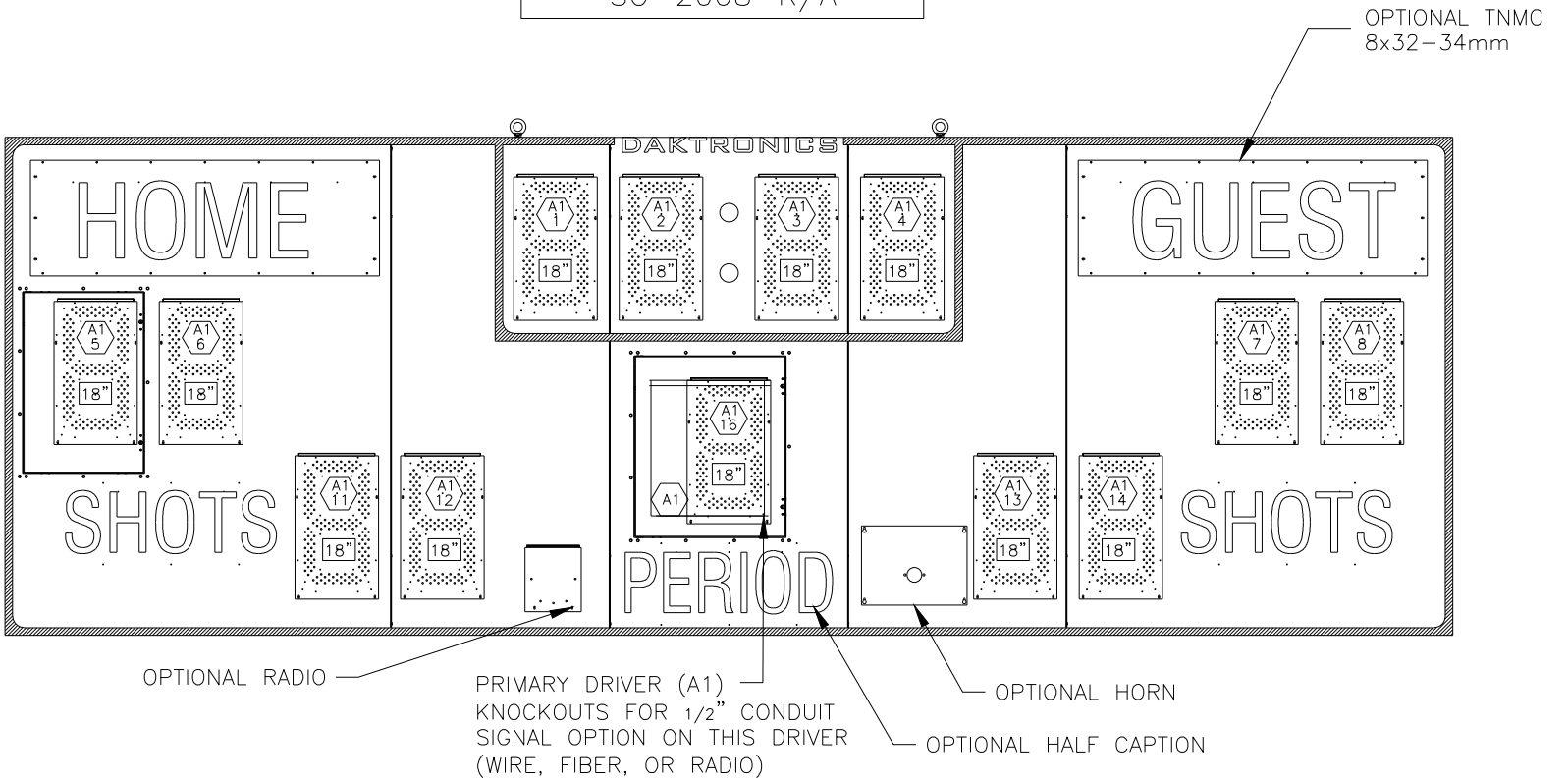
NOTES:
- THREADED RODS RUN ALONG BOTH SIDES OF BEAM
- RODS DO NOT PASS THROUGH THE FLANGES OF THE BEAM
- NO DRILLING NECESSARY
- MAKE SURE SPRING NUT IS PERPENDICULAR TO CHANNEL OPENING ON SCOREBOARD

REV	DATE:		BY:	
04	22 DEC 15	PER EC-22871; ADDED LUBRICANT WARNING	PJS 18704	
03	03 JULY 13	ADDED STRUCTURAL NOTE	TTF	
02	20 SEP 12	PER EC-7114; REMOVED CHAMFER FROM 0M-133259	LMG	
01	06 OCT 11	REPLACED VERTICAL I-BEAM WITH 6" X 6" SQUARE TUBE	JAVA	

THIRD ANGLE PROJECTION

PROJECT:	OUTDOOR SCOREBOARDS			
TITLE:	P1647; POLE MOUNTING OPTIONS			
DATE: 22-DEC-15	DIM UNITS: INCHES [MILLIMETERS]		SHEET 1 OF 1	REV 04
SCALE: 1/5	DO NOT SCALE DRAWING			
DESIGN: DOPPELT	JOB NO. P1647	FUNC - TYPE - SIZE E - 10 - A	1048184	
DRAWN: DOPPELT				

SO-2008-R/A



REV	DATE:		BY:	
04	10 AUG 20	PER CN-107858 REMOVED LABELS TO MOVE TO NEW STANDARD	TAN	
03	08 JAN 19	PER CN-70692, UPDATED LOCATION OF DAKTRONICS LOGO	KDM	
02	27 FEB 15	PER EC-17119, REMOVED DETAIL A AND B ADDED SIGNAL OPTION NOTE CAHNGED SLAVE AND MASTER DRIVER NAME	KDB	
01	17 DEC 13	PER EC-12908, ADDED TEXT FOR OPTIONAL HALF CAPTION	KDD	

THIRD ANGLE PROJECTION

PROJECT:	OUTDOOR LED SCOREBOARDS			
TITLE:	COMPONENT LOCATION; SO-2008-R/A			
DATE: 31 OCT 11	DIM UNITS: INCHES [MILLIMETERS]		SHEET	REV
SCALE: 1=25	DO NOT SCALE DRAWING			04
DESIGN: KDRAGT	JOB NO.	FUNC - TYPE - SIZE	1073839	
DRAWN: MJOHNSO	P1647	E - 10 - A		

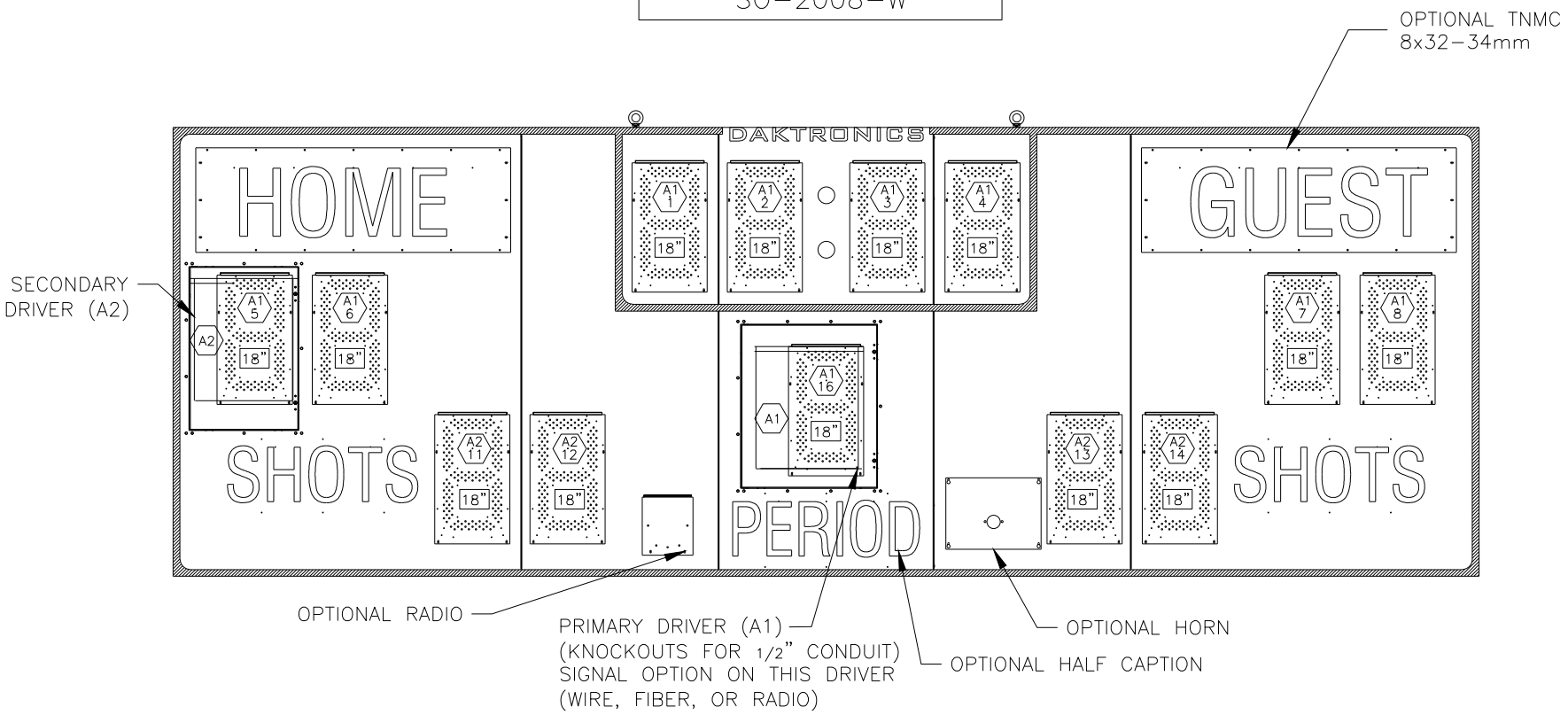
NOTES:

(A1 / 1) = LED DRIVER NUMBER & LED DRIVER CONNECTOR WIRED TO THAT DIGIT.

24" = DIGIT SIZE

(A1) = DRIVER NUMBER

SO-2008-W



NOTES:

(A1 / 1) = LED DRIVER NUMBER & LED DRIVER CONNECTOR WIRED TO THAT DIGIT.

[24"] = DIGIT SIZE

(A1) = DRIVER NUMBER

REV	DATE:		BY:	
05	10 AUG 20	PER CN-107858 REMOVED LABELS TO MOVE TO NEW STANDARD	TAN	
04	08 JAN 19	PER CN-70692, UPDATED LOCATION OF DAKTRONICS LOGO	KDM	
03	27 FEB 15	PER EC-17119, REMOVED DETAIL A AND B ADDED SIGNAL OPTION NOTE CHANGED SLAVE AND MASTER DRIVER NAMES	KDB	
02	17 DEC 13	PER EC-12908, ADDED NOTE FOR OPTIONAL HALF CAPTION	KDD	
01	05-JUL-12	RENAMED DIGITS A2-1 THRU A2-4 TO A2-11 THRU A2-14 PER EC-6349	CJ	

THIRD ANGLE PROJECTION

PROJECT:	OUTDOOR LED SCOREBOARDS			
TITLE:	COMPONENT LOCATION; SO-2008-W			
DATE:	31 OCT 11	DIM UNITS: INCHES [MILLIMETERS]	SHEET	REV
SCALE:	1=25	DO NOT SCALE DRAWING		05
DESIGN:	KDRAGT	JOB NO.	FUNC - TYPE - SIZE	1073851
DRAWN:	MJOHNSO	P1647	E - 10 - A	