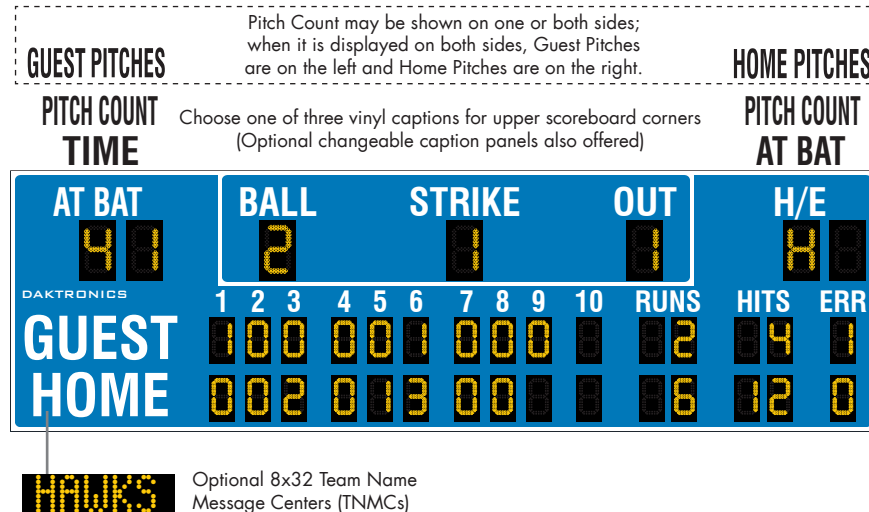


DAKTRONICS BA-2019 PRODUCT SPECIFICATIONS



This outdoor LED baseball/softball scoreboard displays HOME and GUEST team scores for up to 10 innings, total RUNS and HITS to 99 and ERR (errors) to nine for each team, AT BAT to 99, BALL to three, STRIKE to two, OUT to two and H/E (hit or error) with field position number for the error. Scoreboard can show TIME or PITCH COUNT instead of AT BAT, as well as AT BAT or PITCH COUNT in place of H/E. Scoreboard shown with optional striping and amber PanaView® digits.

		VINYL CAPTIONS (STANDARD)	TNMCs & VINYL CAPTIONS
POWER (120 VAC)*	Red/Amber Digits	320 Watts, 2.7 Amps	390 Watts, 3.3 Amps
	White Digits	570 Watts, 4.8 Amps	730 Watts, 6.1 Amps
UNCRATED WEIGHT		500 lb (227 kg)	580 lb (263 kg)
DIMENSIONS		6'-0" H x 20'-0" W x 8" D (1.83 m, 6.10 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

- AT BAT, BALL, STRIKE, OUT and H/E digits are 15" (381 mm) high. All other digits are 10" (254 mm) high.
- Select red, amber, or white LED digits. Scoreboard may instead have mixed LED digit colors (see [DD1965467](#)).
- Scoreboard features robust weather-sealed digits (see [DD2495646](#)).
- Digits may be dimmed for night viewing.

DISPLAY COLOR

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

CONSTRUCTION

Alcoa aluminum alloy 5052 for excellent corrosion resistance

CAPTIONS

- HOME and GUEST captions are 12" (305 mm) high. AT BAT, BALL, STRIKE, OUT and H/E captions are 8" (203 mm) high. All other captions are 6" (152 mm) high.
- Standard captions are vinyl, applied to the display face.
- Optional TNMCs are 10.6" (269 mm) high.

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)

DAKTRONICS BA-2019 PRODUCT SPECIFICATIONS

CONTROL CONSOLE	CONTROL OPTIONS
All Sport® 5000 (see SL-03991)	Wired (standard): Two-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 radios feature 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.

TIME CLOCK

The two-digit clock can display hours/minutes/seconds. Clock information shifts from hours to minutes to seconds as time counts down.

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 20'-0" W (457 mm, 6.10 m)
 2'-0" H x 20'-0" W (610 mm, 6.10 m)
 2'-6" H x 20'-0" W (762 mm, 6.10 m)
 3'-0" H x 20'-0" W (914 mm, 6.10 m)

For additional non-backlit panel sizes, see [SL-03761](#).

FOR ADDITIONAL INFORMATION

- Installation Specifications: DWG-1157190 (attached)
- Standard I-beam Mounting: DWG-1052565 (attached)
- LVX I-Beam Mounting: DWG-3918361 (attached)
- Optional Pole Mounting: DWG-1048184 (attached)
- Component Locations: DWG-3549806 (attached)
- Architectural Specifications: See [SL-07439](#)

OPTIONS & ACCESSORIES

- Scoreboard border striping
- Striping around BALL, STRIKE and OUT digits
- TIME, AT BAT or PITCH COUNT captions on changeable panels
- 100+ Pitch Count – an additional digit may be added to the left, right or both sides of the scoreboard
- 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](#))
- 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

Dual Pitch Count with Optional 100+ Digits*



*When pitch count is displayed on both sides at once, Guest Pitches are on the left and Home Pitches are on the right.

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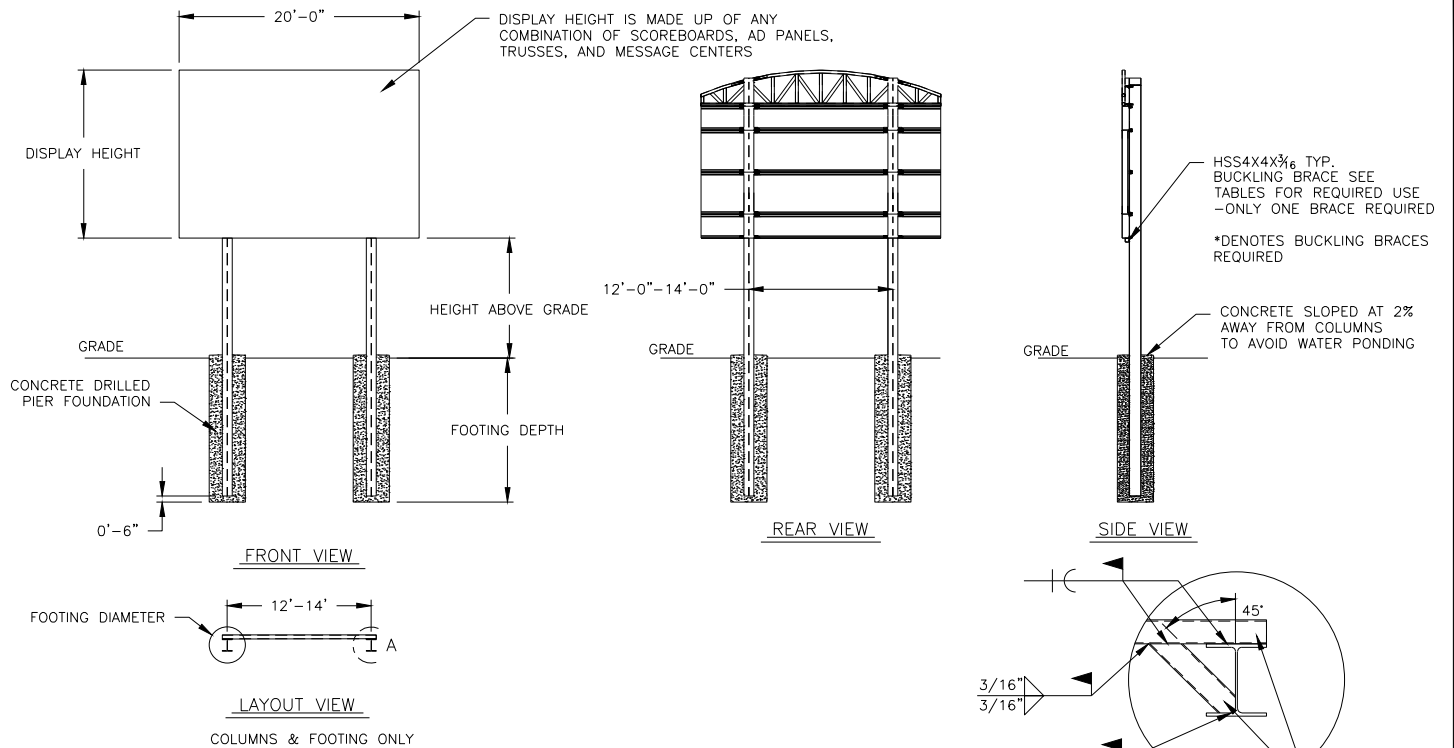


TABLE A - MOUNTING

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
8	COLUMN FOOTING	W8X24 2.0'x8.5'	W8x28 2.0'x9.5'	W8X31 2.0'x10.5'	W12X26* 3.0'x9.5'	8	COLUMN FOOTING	W10X26* 2.0'x9.5'	W10X30* 2.0'x10.5'	W14x34* 3.0'x10.0'	W12X40* 3.0'x11.0'
10	COLUMN FOOTING	W8X31 2.0'x9.5'	W10X26 2.0'x10.5'	W12X26* 3.0'x10.0'	W14X34* 3.0'x11.0'	10	COLUMN FOOTING	W12X30* 3.0'x9.0'	W14x34* 3.0'x10.0'	W12X40* 3.0'x11.0'	W16X45* 3.0'x12.0'
12	COLUMN FOOTING	W10X26* 2.0'x10.5'	W12X26* 3.0'x10.0'	W14X34* 3.0'x11.0'	W16X40* 3.0'x12.0'	12	COLUMN FOOTING	W14X30* 3.0'x10.0'	W12X40* 3.0'x11.0'	W14X43* 3.0'x12.0'	W21X48* 3.0'x13.5'
14	COLUMN FOOTING	W12X26* 3.0'x9.5'	W14X34* 3.0'x10.5'	W16X40* 3.0'x12.0'	W21x44* 3.0'x13.5'	14	COLUMN FOOTING	W14X34* 3.0'x10.5'	W16X40* 3.0'x11.5'	W21X48* 3.0'x13.5'	W21X55* 3.0'x15.5'
16	COLUMN FOOTING	W14X30* 3.0'x10.5'	W18x35* 3.0'x11.5'	W16X40* 3.0'x13.0'	W21x48* 3.0'x15.0'	16	COLUMN FOOTING	W16x40* 3.0'x11.5'	W21x48* 4.0'x11.0'	W18X55* 3.0'x14.5'	W21x68* 4.0'x14.5'
18	COLUMN FOOTING	W14X34* 3.0'x11.0'	W16X40* 3.0'x12.0'	W21x48* 3.0'x14.0'	W18X55* 3.0'x16.5'	18	COLUMN FOOTING	W14X48* 3.0'x12.0'	W21x48* 4.0'x12.0'	W21X55* 4.0'x13.5'	W24X68* 4.0'x16.0'
20	COLUMN FOOTING	W16X36* 3.0'x11.5'	W21x44* 3.0'x13.0'	W21x48* 3.0'x15.5'	W21X62* 3.0'x18.5'	20	COLUMN FOOTING	W21x48* 3.0'x13.0'	W21x55* 4.0'x12.5'	W24X68* 4.0'x15.0'	W24X76* 4.0'x17.5'

FOOTING DIMENSIONS = DIAMETER X DEPTH

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
8	COLUMN FOOTING	W12x30 3.0'x8.5'	W14x38 3.0'x10.0'	8	COLUMN FOOTING	W10x39 3.0'x9.5'	W10x49 3.0'x11.0'
10	COLUMN FOOTING	W14x38 3.0'x9.5'	W14x43 3.0'x11.0'	10	COLUMN FOOTING	W10x49 3.0'x10.5'	W12x53 3.0'x12.0'
12	COLUMN FOOTING	W14x43 3.0'x10.0'	W12x53 3.0'x12.0'	12	COLUMN FOOTING	W14x43* 3.0'x11.0'	W18x55* 3.0'x13.5'
14	COLUMN FOOTING	W10x49 3.0'x11.0'	W12x58 3.0'x13.0'	14	COLUMN FOOTING	W21x48* 4.0'x11.0'	W21x62* 4.0'x12.5'
16	COLUMN FOOTING	W16x40* 3.0'x12.0'	W21x48* 3.0'x14.5'	16	COLUMN FOOTING	W18x55* 3.0'x13.0'	W16x67* 3.0'x16.5'
18	COLUMN FOOTING	W21x44* 4.0'x11.0'	W21x55* 4.0'x14.0'	18	COLUMN FOOTING	W21x62* 3.0'x14.5'	W24x68* 4.0'x15.5'
20	COLUMN FOOTING	W21x48* 4.0'x12.0'	W21x62* 4.0'x15.0'	20	COLUMN FOOTING	W16x67* 3.0'x15.5'	W24x84* 4.0'x16.5'

FOOTING DIMENSIONS = DIAMETER X DEPTH

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

NOTES:

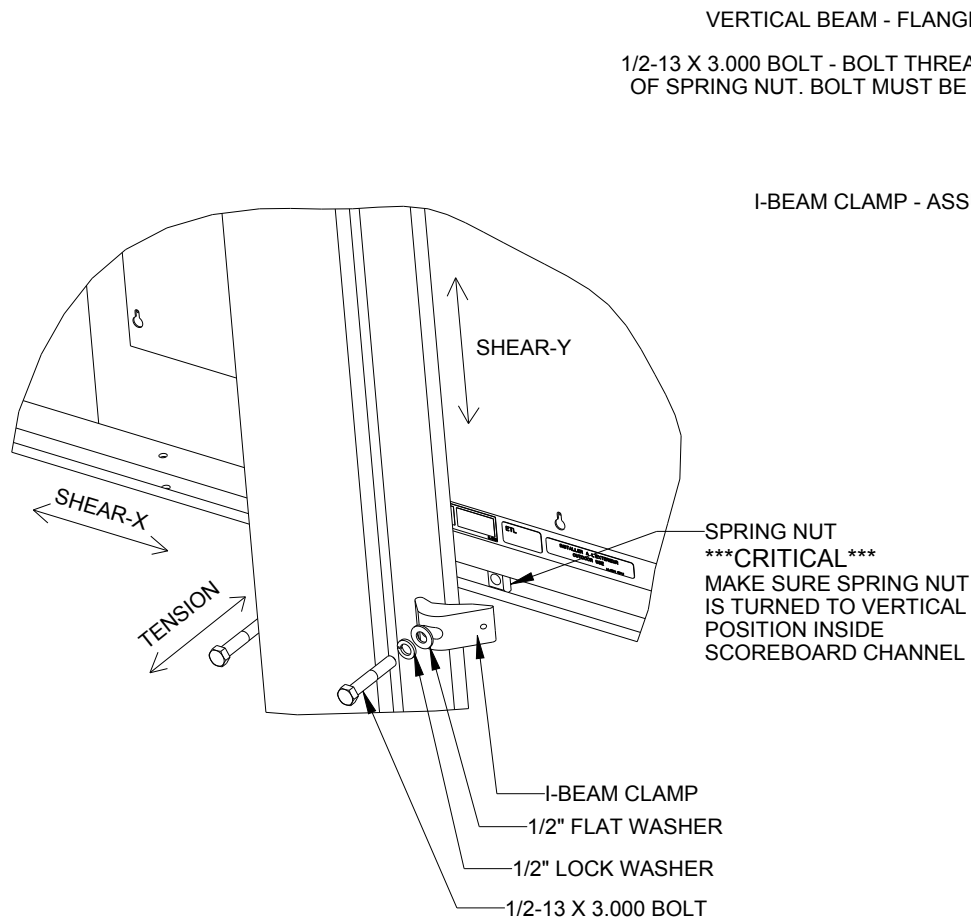
1. FOOTING AND COLUMN SIZES ARE SUGGESTIONS ONLY, PROVIDED TO ASSIST WITH ESTIMATING INSTALLATION COSTS AND ARE NOT INTENDED FOR CONSTRUCTION PURPOSES. THE DESIGN MUST BE CERTIFIED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE INSTALLATION BEFORE THEY CAN BE USED FOR FABRICATION OR ERECTION.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

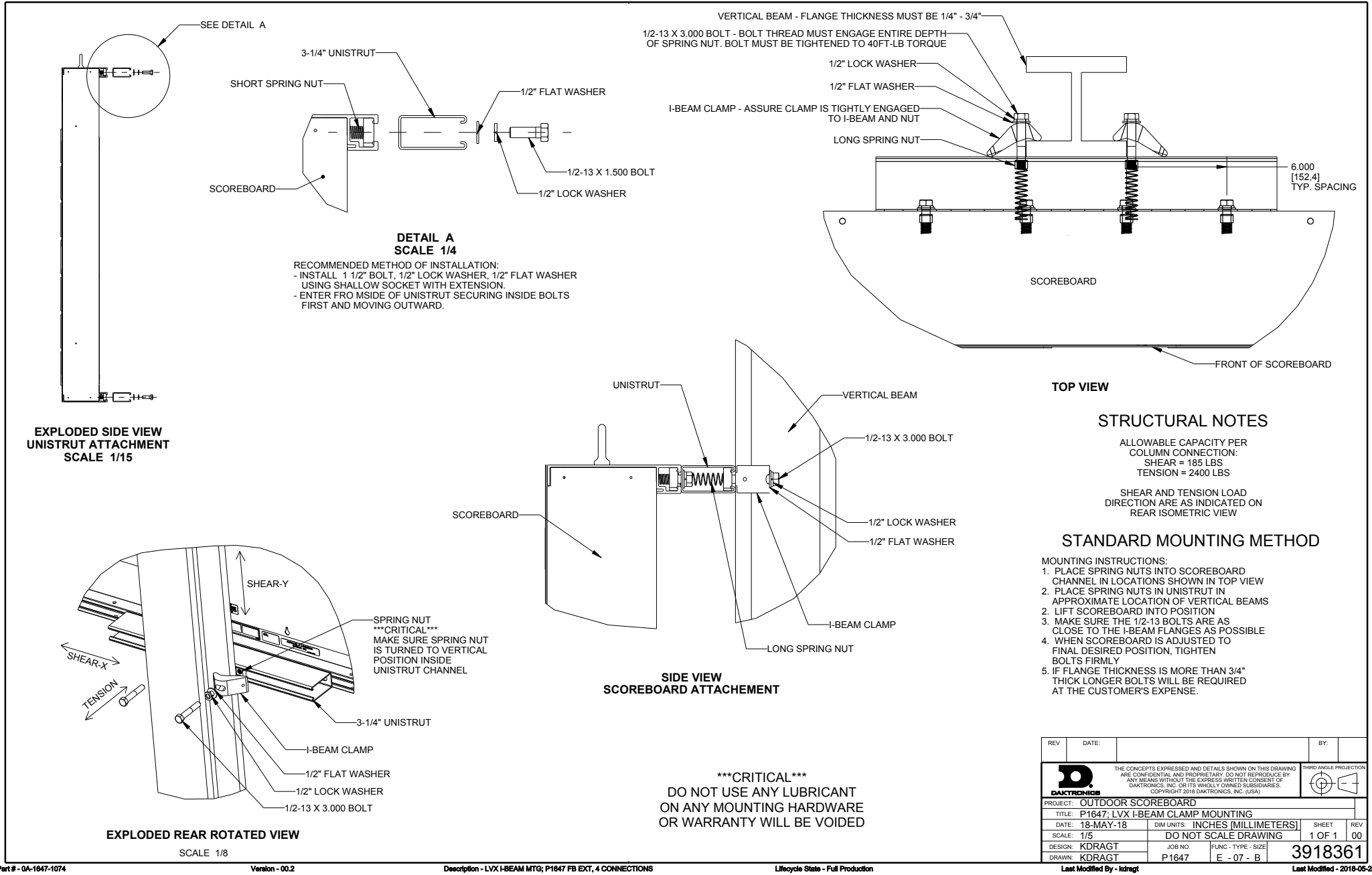
DAKTRONICS, INC. BROOKINGS, SD 57006		THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESSED WRITTEN CONSENT OF DAKTRONICS, INC. COPYRIGHT 2011 DAKTRONICS, INC.	
		DO NOT SCALE DRAWING	
PROJ: OUTDOOR SCOREBOARD INSTALLATION			
TITLE: 20' WIDTH SCOREBOARD INSTALLATION SPECS			
DESIGN: RSCHWAR		DRAWN: RSCHWAR	
SCALE: 1/16" = 1'		DATE: 27 NOV 13	
SHEET	REV	JOB NO:	FUNC-TYPE-SIZE
	02	P1647	E-10-A
			1157190

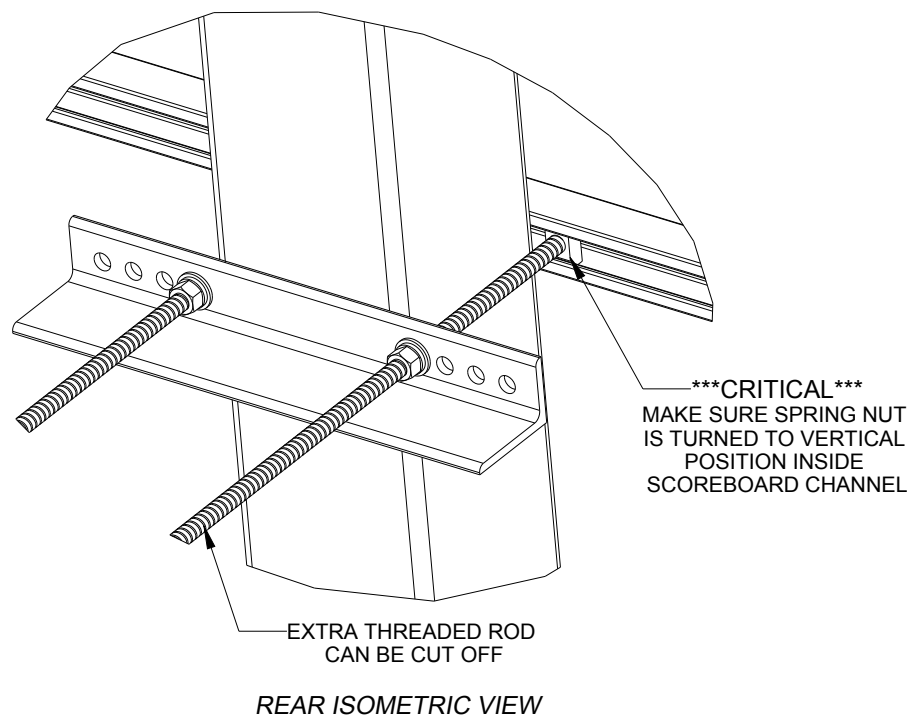
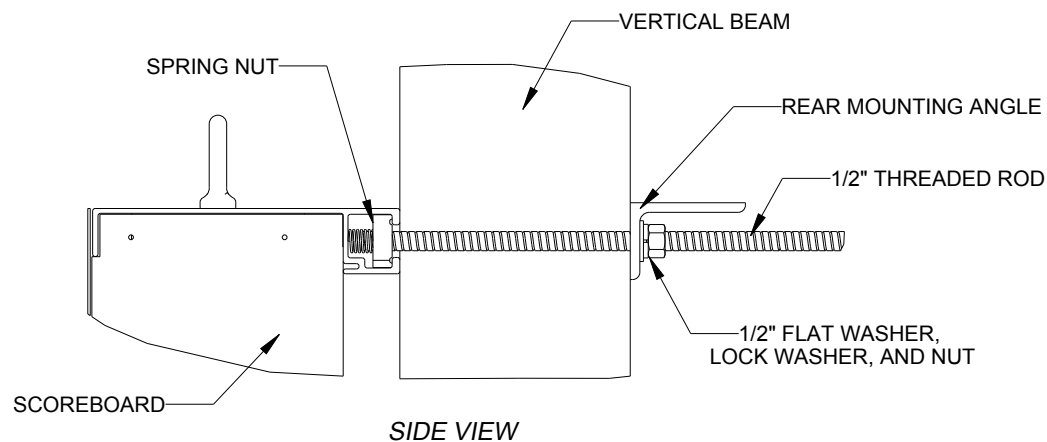
REV 02	DATE: 20 OCT 15	UPDATED WIDE FLANGE SIZES UPDATED FOUNDATION SIZES NOTED WHICH DISPLAYS NEEDED BRACE	BY: AMP
REV 01	DATE: 23 JUL 14	UPDATED CLAMPS IN REAR AND SIDE VIEWS AND ADDED 170 MPH WIND SPEC COLUMN	BY: TJT



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	
REV	DATE:		BY:	

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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	1052565	
DRAWN: MCARSRU		P1647	E - 07 - A		

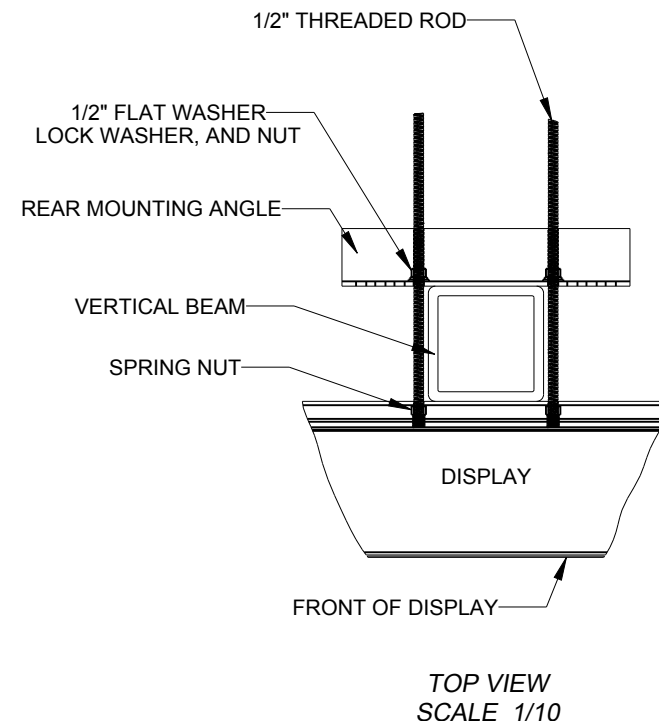




STRUCTURAL NOTES:
- BOLT TORQUE: 30 FT-LB

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

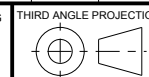


*****CRITICAL*****
DO NOT USE ANY LUBRICANT
ON ANY MOUNTING HARDWARE
OR WARRANTY WILL BE VOIDED

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	
REV	DATE:		BY:	

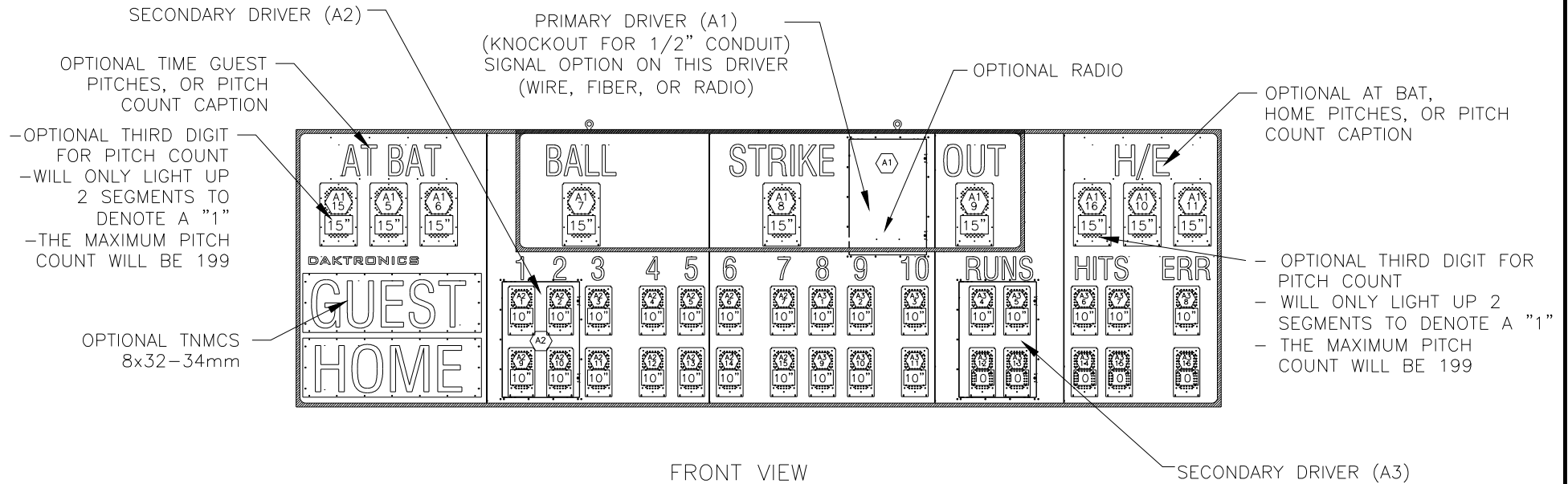


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PROJECT: OUTDOOR SCOREBOARDS				
TITLE: P1647; POLE MOUNTING OPTIONS				
DATE: 22-DEC-15	DIM UNITS: INCHES [MILLIMETERS]		SHEET	REV
SCALE: 1/5	DO NOT SCALE DRAWING		1 OF 1	04
DESIGN: DOPPELT	JOB NO.	FUNC - TYPE - SIZE	1048184	
DRAWN: DOPPELT	P1647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

BA-2019-R/A/W



NOTES:

= LED DRIVER NUMBER & LED DRIVER CONNECTOR WIRED TO THAT DIGIT.

= DRIVER NUMBER

REV 01	DATE: 24 AUG 20	PER CN-108526 REMOVED LABELS TO MOVE TO NEW STANDARD	BY: TAN
		THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2017 DAKTRONICS, INC. (USA)	THIRD ANGLE PROJECTION
PROJECT: OUTDOOR LED SCOREBOARDS			
TITLE: COMPONENT LOCATION; BA-2019			
DATE: 23 AUG 11	DIM UNITS: INCHES [MILLIMETERS]	SHEET	REV 01
SCALE: 1=40	DO NOT SCALE DRAWING		
DESIGN: KDRAGT	JOB NO.	FUNC - TYPE - SIZE	
DRAWN: MRAUERT	P1647	E - 10 - A	
			3549806