



Shakopee Youth Baseball Association

Request: For the City of Shakopee to allow Scoreboards at West Tahpah and Westminster.

Details: Shakopee Youth Baseball Association (SYBA) would like to have scoreboards professionally installed at West Tahpah and Westminster. SYBA will pay the upfront costs of the scoreboards and installation. SYBA will be receiving payments from advertisers to cover the cost of the scoreboards. The advertisers will have their company name and/or logo attached to the sign as done at previous fields in Shakopee. The advertising will remain on the sign for the duration the sign is in use. SYBA will also have SYBA's name and/or logo above the sign as in the past.

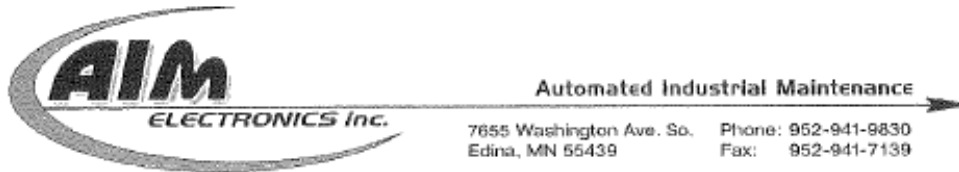
Location 1: SYBA is proposing to install one scoreboard at each of the two Westminster baseball fields. Currently, there is no scoreboard at either site. The SYBA board has agreed to use a smaller scoreboard as recommended at a prior meeting with Bill Egan, Jay Tobin, Sherry Dvorak and Keith Raines. Please see appendix "A" for specifications of Westminster scoreboards. The proposed location of both scoreboards are below in red:



Locations 2: In addition, SYBA is proposing to install one scoreboard at the West Tahpah baseball field. Currently, there is no scoreboard. Please see appendix “B” for specifications of West Tahpah scoreboard. The proposed location of the scoreboard is below in red:



Appendix A – Westminster Scoreboard Specifications



Shakopee Youth Baseball Association PRICE QUOTATION March 14, 2017

DAKTRONICS LED BASEBALL SCOREBOARD AND ACCESSORIES FOR WESTMINSTER FIELDS

<u>Description</u>	<u>Size (HxWxD)</u>	<u>Qty.</u>	<u>Opt. 1</u>	<u>Opt. 2</u>	<u>Opt. 3</u>
1. Model BA-2718-Amber or Red LED Scoreboard Incl. RC-100 Handheld Console, Border Stripe and <u>TIME Caption</u>	5' x 10' x 8"	1	\$3,409	-	-
2. Model BA-2518-Amber or Red LED Scoreboard Incl. RC-100 Handheld Console and Border Stripe (<u>No Time Caption Available</u>)	4' x 9' x 8"	1	-	\$3,100	-
3. Model BA-2715-Amber or Red LED Scoreboard Incl. RC-100 Handheld Console, Border Stripe and <u>TIME Caption</u>	3' x 9' x 8"	1	-	-	\$2,562
4. Wireless Radio Receiver for RC-100		1	390	390	390
5. Shipping and Handling			<u>200</u>	<u>180</u>	<u>160</u>
			<u>\$3,999</u>	<u>\$3,670</u>	<u>\$3,112</u>

Options Available:

1. Installation and Training (Budgetary - Pending a Site Survey)* .	.	.	.	\$4,850
2. Protective Digit Screens for Scoreboard (BA-2718 & BA-2515) .	.	.	.	\$354
3. Protective Digit Screens for Scoreboard (BA-2518) .	.	.	.	\$253

*NOTE: Electrical installation must be completed by a licensed electrician hired by owner. AIM Electronics will dig holes, provide new steel I-beams and cement footings, mount scoreboards/accessories and provide training. Disposal of shipping/packaging materials is responsibility of owner. AIM Electronics will place materials in dumpster of owner's choice.

OTHER INFORMATION:

- Five (5) year parts warranty on Scoreboards; 1 year parts warranty on RC-100 handheld console
- Eight-Ten (8-10) weeks lead time
- 30% down payment; balance due 30 days after shipping
- Prices valid for 60 days
- MN sales tax would apply if not purchased by school or city.

Chippewa Falls, WI Direct: 715-579-2764 shadetree@bloomer.net	Madison, WI Direct: 952-454-6982 derkn@aimelc.com	Frazee, MN Direct: 218-234-3475 dtrautman.aimnorth@gmail.com
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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, K_z=1.0, K_d=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.

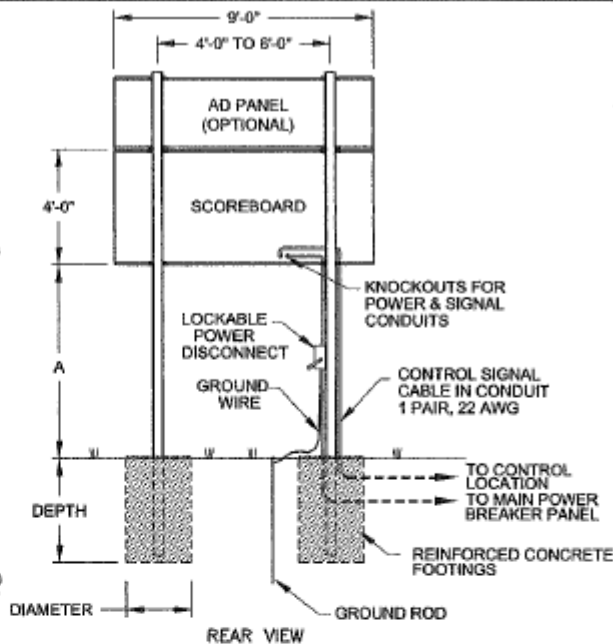
6. DAKTRONICS INC. IS NOT RESPONSIBLE FOR STRUCTURES DESIGNED AND INSTALLED BY OTHERS.

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

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 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.



EXPOSURE B

DISTANCE "A" (SEE FIGURE)		TOTAL DISPLAY SIZE		DESIGN WIND VELOCITY			
				115 MPH	130 MPH	150 MPH	170 MPH
10'-0"	9'-0"	BEAM	WBx10	WBx13	WBx15	WBx17	
	4'-0"	FOOTING	2'-0"x4'-6"	2'-0"x5'-0"	2'-0"x6'-0"	2'-0"x6'-6"	
15'-0"	9'-0"	BEAM	WBx18	WBx18	WBx21	WBx21	
	4'-0"	FOOTING	2'-0"x5'-6"	2'-0"x6'-0"	2'-0"x6'-6"	2'-0"x7'-0"	

EXPOSURE C

DISTANCE "A" (SEE FIGURE)		TOTAL DISPLAY SIZE		DESIGN WIND VELOCITY	
				115 MPH	140 MPH
10'-0"	9'-0"	BEAM	WBx13	WBx17	
	4'-0"	FOOTING	2'-0"x5'-6"	2'-0"x6'-6"	
15'-0"	9'-0"	BEAM	WBx18	WBx21	
	4'-0"	FOOTING	2'-0"x6'-0"	2'-0"x7'-0"	

FOOTING = DIAMETER X DEPTH

EXPOSURE B

DISTANCE "A" (SEE FIGURE)		TOTAL DISPLAY SIZE "B"		DESIGN WIND VELOCITY			
				115 MPH	130 MPH	150 MPH	170 MPH
10'-0"	9'-0"	BEAM	WBx15	WBx20	WBx21	WBx21	
	6'-6"	FOOTING	2'-0"x5'-6"	2'-0"x6'-0"	2'-0"x6'-6"	2'-0"x7'-0"	
15'-0"	9'-0"	BEAM	WBx21	WBx24	WBx24	WBx24	
	6'-6"	FOOTING	2'-0"x6'-6"	2'-0"x7'-0"	2'-0"x7'-6"	2'-0"x8'-0"	

EXPOSURE C

DISTANCE "A" (SEE FIGURE)		TOTAL DISPLAY SIZE		DESIGN WIND VELOCITY	
				115 MPH	140 MPH
10'-0"	9'-0"	BEAM	WBx18	WBx21	
	6'-6"	FOOTING	2'-0"x6'-6"	2'-0"x7'-6"	
15'-0"	9'-0"	BEAM	WBx20	WBx24	
	6'-6"	FOOTING	2'-0"x7'-6"	2'-0"x8'-6"	



DAKTRONICS, INC.

BRIDGES, RD. 5100

DO NOT SCALE DRAWING

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PROVIDE OUTDOOR SCOREBOARDS

TITLE: INSTALLATION SPECIFICATIONS- BA-2518

DESIGN: A VANBEMMEL

DRAWN: TTASCHN

DATE: 22 JUL 14

SCALE: 1=60

SHEET

REV

JOB NO.

FIGURE SIZE

1183247

REV	DATE	BY

NOTES:

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

4. STRUCTURAL STEEL IS GRADE A36 (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.

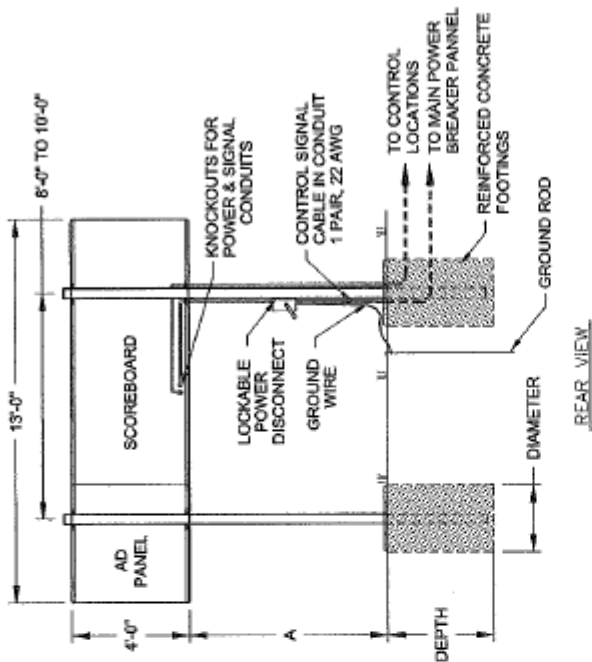
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8. FOR SPECIFIC PRODUCT DETAILS ON WEIGHT, MOUNTING, ETC. REFER TO THE INDIVIDUAL PRODUCT SPECIFICATION SHEETS.



EXPOSURE B

HEIGHT ABOVE GRADE (A) (FT)	DISPLAY HEIGHT (FT)	DESIGN WIND VELOCITY
10'	4'-0"	115 MPH WBX15 2'-0"x6'-6" FOOTING
15'	4'-0"	130 MPH WBX15 2'-0"x6'-6" WBX20 2'-0"x7'-6" FOOTING
		150 MPH WBX15 2'-0"x7'-6" WBX20 2'-0"x7'-6" WBX24 2'-0"x8'-6"
		170 MPH WBX20 2'-0"x7'-6" WBX24 2'-0"x8'-6"

EXPOSURE C

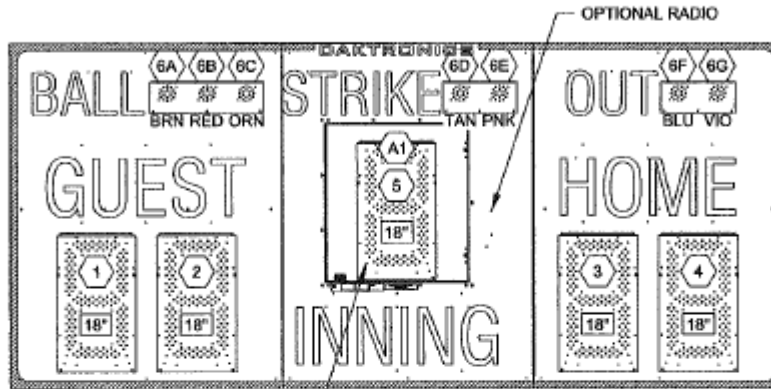
HEIGHT ABOVE GRADE (A) (FT)	DISPLAY HEIGHT (FT)	DESIGN WIND VELOCITY
10'	4'-0"	115 MPH WBX15 2'-0"x6'-6" FOOTING
15'	4'-0"	140 MPH WBX15 2'-0"x6'-6" WBX20 2'-0"x7'-6" FOOTING
		WBX20 2'-0"x7'-6" WBX24 2'-0"x8'-6"

FOOTING DIMENSIONS = DIAMETER x DEPTH

REV	DATE	REVISIONS	BY
01	01 APR 16	REVISIONS TO MAKE DRG GENERIC	420

THE CONDUITS COVERED AND SHOWN ON THIS DRAWING ARE NOT TO BE USED FOR ANY OTHER PURPOSES. ANY ADJUSTMENTS TO THE EXISTING WIRING, CONDUIT, OR DUCTING SHALL BE THE RESPONSIBILITY OF THE USER.		
PROJECT: OUTDOOR LED SCOREBOARDS		
TITLE: INSTALLATIONS SPECS: 4'X3' MODEL S-1 AD, 13' WIDE DISPLAY		
DATE	21 MAY 14	REV
SCALE	1/8" = 1'-0"	DO NOT SCALE DRAWING
DRAWN	TIASCHN	JOB NO.
CHECKED	TIASCHN	P1192
DATE	01 APR 16	REV
01	01 APR 16	01
DRAWING NO. 1174962		R-10-A

BA-2518-R/A/W



PRIMARY DRIVER (A1)
(KNOCKOUTS FOR 1/2" CONDUIT)
SIGNAL OPTION ON THIS DRIVER
(WIRE, FIBER, OR RADIO)

FRONT VIEW

NOTES:

3 = DRIVER CONNECTOR
WIRED TO THAT DIGIT

18" = DIGIT SIZE

6B = DRIVER CONNECTOR
AND SEGMENT (PIN) #
WIRED TO THAT INDICATOR

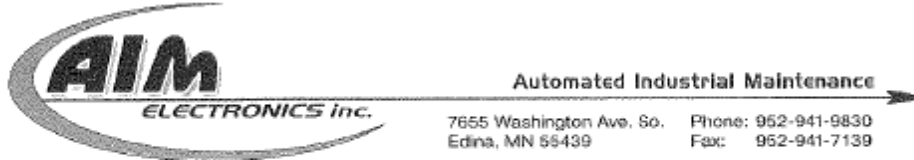
A1 = DRIVER NUMBER

DAKTRONICS, INC. 8 ROCKING, 3D 57006 DO NOT SCALE DRAWING		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 2003 DAKTRONICS, INC.	
		PRELIMINARY SHEETMETAL SCOREBOARDS TITLE: COMPONENT LOCATION: BA-2518-R/A/W DESIGN: KDRAGT DRAWN: KDRAGT DATE: 16 JAN 13	
SCALE: 1"=20" SHEET 01 REV 01 JOB NO: P1753		PUNCH-TYPE SIZE: E-10-A 1124598	

REV 01 DATE: 03 MAR 15 PER EC-17119, ADDED SIGNAL OPTION NOTE AND REMOVED DETAIL VIEWS

BY: DWH

Appendix A – West Tahpah Scoreboard Specifications



Shakopee Youth Baseball Association PRICE QUOTATION March 14, 2017

DAKTRONICS LED BASEBALL SCOREBOARD AND ACCESSORIES FOR NEW FIELD

Description	Size (HxWxD)	Qty.	Price
1. Model BA-2019-Amber or Red LED Scoreboard Incl. AS-5000 Console, Border Stripe and B/S/O Stripe	6' x 20' x 8"	1	\$11,997
2. Wireless Radio Controls for AS-5000 (Transmitter/Receiver)		1	790
3. Shipping and Handling			500
			<u>\$13,287</u>

Options Available:

1. Installation and Training (Budgetary - Pending a Site Survey)*		\$6,250
2. Non-Backlit Name/Sponsor Panel Including Lettering and Logos (2' x 20')		\$1,086 each

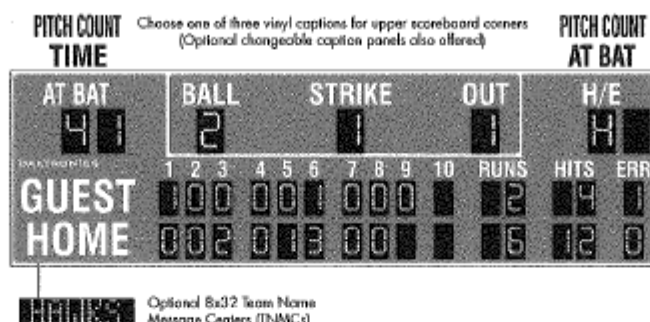
*NOTE: Electrical installation must be completed by a licensed electrician hired by owner. AIM Electronics will dig holes, provide new steel I-beams and cement footings, mount scoreboards/accessories and provide training. Disposal of shipping/packaging materials is responsibility of owner. AIM Electronics will place materials in dumpster of owner's choice.

OTHER INFORMATION:

- Five (5) year parts warranty
- Eight-Ten (8-10) weeks lead time
- 30% down payment; balance due 30 days after shipping
- Prices valid for 60 days
- MN sales tax would apply if not purchased by school or city.

Chippewa Falls, WI Direct: 715-579-2764 shadestre@bloomer.net	Madison, WI Direct: 952-454-6962 derikn@aimels.com	Frazee, MN Direct: 218-234-3475 dtrautman.aimnorth@gmail.com
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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	590 Watts, 4.9 Amps
	White Digits	565 Watts, 4.7 Amps	835 Watts, 7 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 DD2425646).
- 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)

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
DD2118182 022317 Page 1 of 6



DAKTRONICS BA-2019 PRODUCT SPECIFICATIONS

CONTROL CONSOLE	CONTROL OPTIONS
All Sport® 5000 (see SL03991)	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 SL04320).

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 [SL03761](#).

FOR ADDITIONAL INFORMATION

- Installation Specifications: DWG-1157190 (attached)
- Standard I-beam Mounting: DWG-1052565 (attached)
- Optional Pole Mounting: DWG-1048184 (attached)
- Component Locations: DWG-3549806 (attached)
- Architectural Specifications: See [SL07439](#).

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](#))
- 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.

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

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 Martin Sensor® is a registered trademark of its owner.
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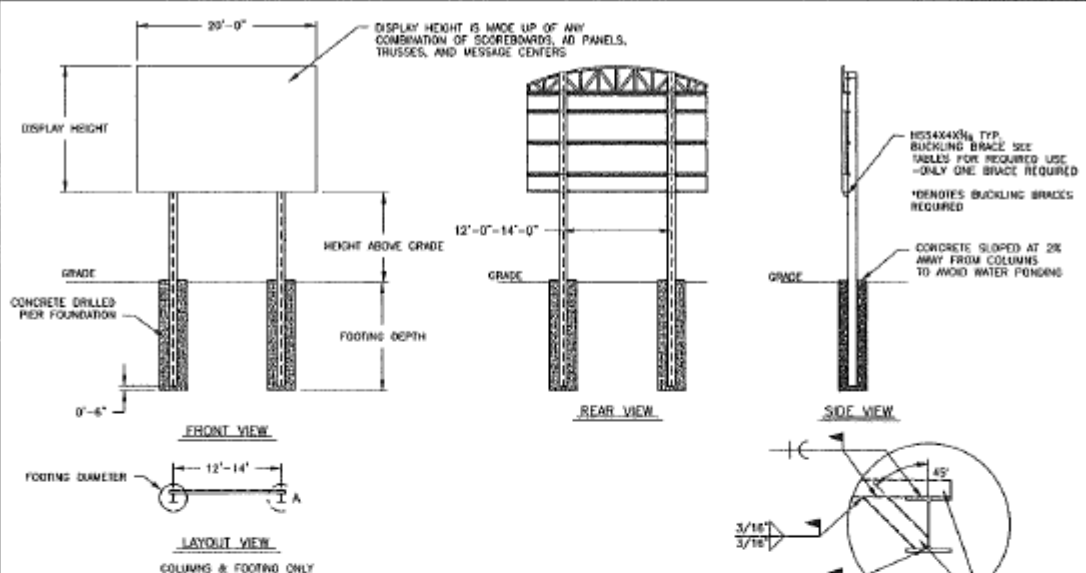


TABLE A - MOUNTING

EXPOSURE B					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			115 MPH	130 MPH	150 MPH
8	COLUMN	W10X20*	W10X20*	W10X20*	8	COLUMN	W10X20*	W10X20*	W10X20*
	FOOTING	3.0'X9.5'	3.0'X9.5'	3.0'X9.5'		FOOTING	3.0'X9.5'	3.0'X9.5'	3.0'X9.5'
10	COLUMN	W10X20*	W10X20*	W10X20*	10	COLUMN	W10X20*	W10X20*	W10X20*
	FOOTING	3.0'X9.5'	3.0'X9.5'	3.0'X9.5'		FOOTING	3.0'X9.5'	3.0'X9.5'	3.0'X9.5'
12	COLUMN	W10X20*	W10X20*	W10X20*	12	COLUMN	W10X20*	W10X20*	W10X20*
	FOOTING	3.0'X9.5'	3.0'X9.5'	3.0'X9.5'		FOOTING	3.0'X9.5'	3.0'X9.5'	3.0'X9.5'
14	COLUMN	W10X20*	W10X20*	W10X20*	14	COLUMN	W10X20*	W10X20*	W10X20*
	FOOTING	3.0'X9.5'	3.0'X9.5'	3.0'X9.5'		FOOTING	3.0'X9.5'	3.0'X9.5'	3.0'X9.5'
16	COLUMN	W10X20*	W10X20*	W10X20*	16	COLUMN	W10X20*	W10X20*	W10X20*
	FOOTING	3.0'X9.5'	3.0'X9.5'	3.0'X9.5'		FOOTING	3.0'X9.5'	3.0'X9.5'	3.0'X9.5'
18	COLUMN	W10X20*	W10X20*	W10X20*	18	COLUMN	W10X20*	W10X20*	W10X20*
	FOOTING	3.0'X9.5'	3.0'X9.5'	3.0'X9.5'		FOOTING	3.0'X9.5'	3.0'X9.5'	3.0'X9.5'
20	COLUMN	W10X20*	W10X20*	W10X20*	20	COLUMN	W10X20*	W10X20*	W10X20*
	FOOTING	3.0'X9.5'	3.0'X9.5'	3.0'X9.5'		FOOTING	3.0'X9.5'	3.0'X9.5'	3.0'X9.5'

FOOTING DIMENSIONS = DIAMETER X DEPTH

EXPOSURE C					EXPOSURE C				
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			115 MPH	130 MPH	150 MPH
8	COLUMN	W10X20*	W10X20*	W10X20*	8	COLUMN	W10X20*	W10X20*	W10X20*
	FOOTING	3.0'X9.5'	3.0'X9.5'	3.0'X9.5'		FOOTING	3.0'X9.5'	3.0'X9.5'	3.0'X9.5'
10	COLUMN	W10X20*	W10X20*	W10X20*	10	COLUMN	W10X20*	W10X20*	W10X20*
	FOOTING	3.0'X9.5'	3.0'X9.5'	3.0'X9.5'		FOOTING	3.0'X9.5'	3.0'X9.5'	3.0'X9.5'
12	COLUMN	W10X20*	W10X20*	W10X20*	12	COLUMN	W10X20*	W10X20*	W10X20*
	FOOTING	3.0'X9.5'	3.0'X9.5'	3.0'X9.5'		FOOTING	3.0'X9.5'	3.0'X9.5'	3.0'X9.5'
14	COLUMN	W10X20*	W10X20*	W10X20*	14	COLUMN	W10X20*	W10X20*	W10X20*
	FOOTING	3.0'X9.5'	3.0'X9.5'	3.0'X9.5'		FOOTING	3.0'X9.5'	3.0'X9.5'	3.0'X9.5'
16	COLUMN	W10X20*	W10X20*	W10X20*	16	COLUMN	W10X20*	W10X20*	W10X20*
	FOOTING	3.0'X9.5'	3.0'X9.5'	3.0'X9.5'		FOOTING	3.0'X9.5'	3.0'X9.5'	3.0'X9.5'
18	COLUMN	W10X20*	W10X20*	W10X20*	18	COLUMN	W10X20*	W10X20*	W10X20*
	FOOTING	3.0'X9.5'	3.0'X9.5'	3.0'X9.5'		FOOTING	3.0'X9.5'	3.0'X9.5'	3.0'X9.5'
20	COLUMN	W10X20*	W10X20*	W10X20*	20	COLUMN	W10X20*	W10X20*	W10X20*
	FOOTING	3.0'X9.5'	3.0'X9.5'	3.0'X9.5'		FOOTING	3.0'X9.5'	3.0'X9.5'	3.0'X9.5'

FOOTING DIMENSIONS = DIAMETER X DEPTH

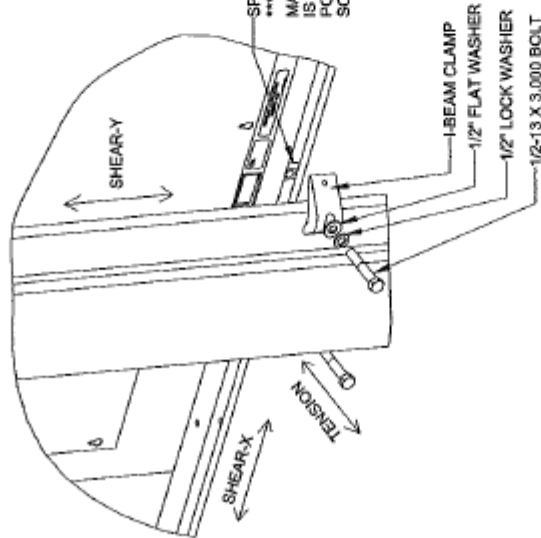
NOTE:
-REFER TO NOTE 7 FOR EXPOSURE CATEGORY DEFINITIONS.

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DO NOT SCALE DRAWING			
PROJECT: OUTDOOR SCOREBOARD INSTALLATION			
TITLE: 20' WIDE SCOREBOARD INSTALLATION SPECS			
DESIGN: RSCHWAR	DRAWN: RSCHWAR	DATE: 27 NOV 13	
SCALE: 1/16" = 1'			
SHEET	REV	JOB NO.	FIG. TYPE-SIZE
	02	P1647	E-10-A
			1157190

- 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, K₁=1.0, K₂=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 HEIGHT 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 MOUNTING, ETC. REFER TO THE INDIVIDUAL PRODUCT SPECIFICATION SHEETS.

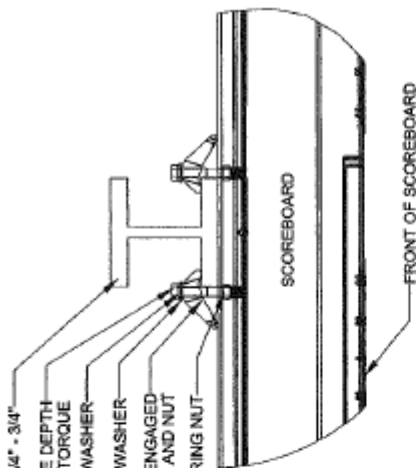
VERTICAL BEAM - FLANGE THICKNESS MUST BE 1/4" - 3/4"
1/2-13 X 3,000 BOLT - BOLT THREAD MUST ENGAGE ENTIRE DEPTH
OF SPRING NUT. BOLT MUST BE TIGHTENED TO 40FT-LB TORQUE
1/2" LOCK WASHER

1/2" FLAT WASHER
I-BEAM CLAMP - ASSURE CLAMP IS TIGHTLY ENGAGED
TO I-BEAM AND NUT
SPRING NUT



EXPLODED REAR ISOMETRIC VIEW

FRONT OF SCOREBOARD
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	21 DEC 15	PER EC-20971, ADDED LUBRICANT NOTE	PJL 15704
REV	06 JAN 16	ADDED ALLOWABLE TENSION AND SHEAR CAPACITY DETAILS	JAVA
REV	21 OCT 13	PER EC-1325, CHANGED BOLT TYPE/CLAMP FROM 3/4" TO 1/2"	NLR
REV	07 MAR 13	ADDED STANDARD MOUNTING METHOD NOTES	KED
REV	21 FEB 12	CHANGED HOOKER TO I-BEAM	KED
REV	DATE		BY:



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THE COMPANY. (Baker Hughes, Inc. 1999)

PROJECT: OUTDOOR SCOREBOARD

TITLE: P1647, I-BEAM CLAMP MOUNTING

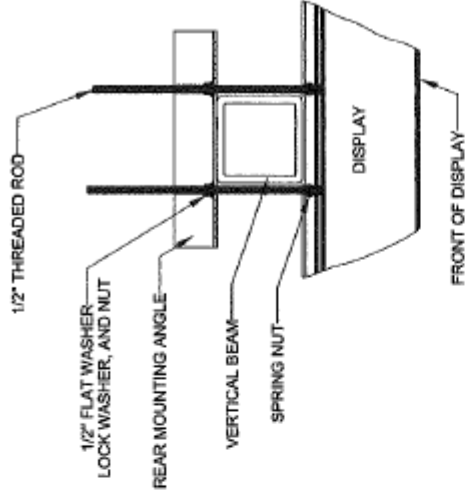
DATE: 22-DEC-15 DIM UNITS: INCHES (MILLIMETERS)

SCALE: 1/8 DO NOT SCALE DRAWING

DESIGN: MCARSRU JOB NO. P1647

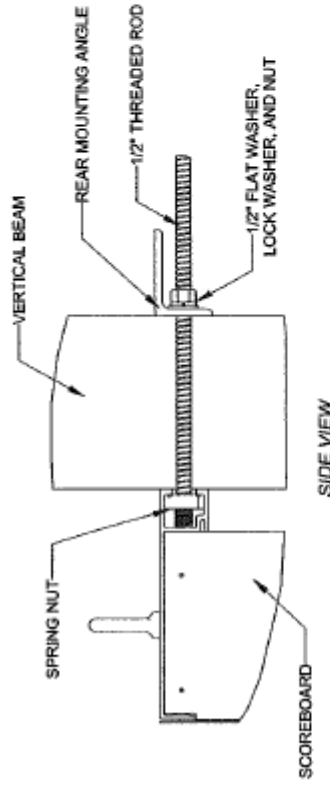
DRAWN: MCARSRU F - 07 - A

1052565

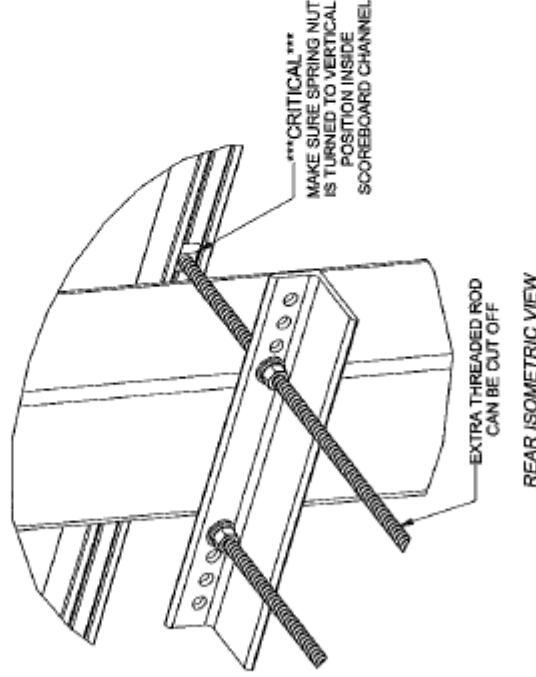


TOP VIEW
SCALE 1/10

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



SIDE VIEW

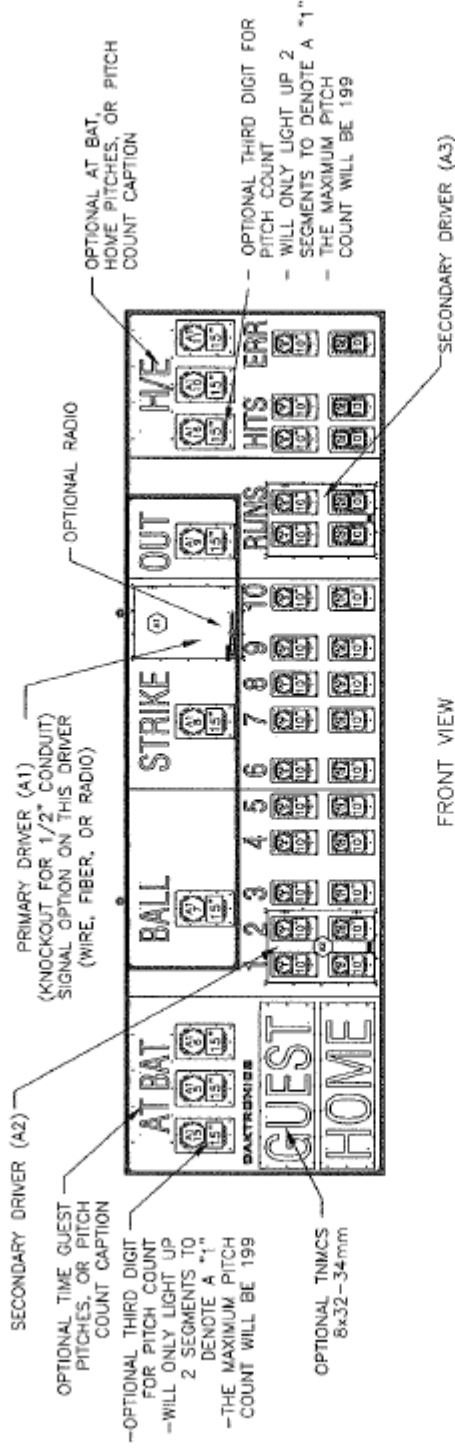


STRUCTURAL NOTES:
- BOLT TORQUE: 30 FT-LB

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

04	20 DEC 15	PER EC-2871: ADDED LUBRICANT WARNING	PJS 10/2014
05	03 JULY 15	ADDED STRUCTURAL NOTE	TTF
06	20 SEP 15	PER EC-2116: REMOVED CHAMFER FROM 1M-130229	LMG
07	05 OCT 15	REPLACED VERTICAL 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 SCALE: 1/5 DESIGN: DOPPELT DRAWING NUMBER: Y			
INCHES (MILLIMETERS) DO NOT SCALE DRAWING 1 OF 1			REV
DATE: 22-DEC-15 SCALE: 1/5 DESIGN: DOPPELT DRAWING NUMBER: Y			04
DATE: 22-DEC-15 SCALE: 1/5 DESIGN: DOPPELT DRAWING NUMBER: Y			1048184

BA-2019-R/A/W



NOTES:

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

(18) = DIGIT SIZE

(A1) = DRIVER NUMBER

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PROJECT: OUTDOOR LED SCOREBOARDS			
TITLE: COMPONENT LOCATION: BA-2019			
DATE: 23 AUG 11	DRAWN: INCHES (MILLIMETERS)	SHEET	REV
SCALE: 1"=40'	DO NOT SCALE DRAWING		00
DESIGN: KIRAGIT	JOB NO.	FUNCTION - SIZE	
DRAWN: MRAUERT	PT647	E-10-A	
		3549806	