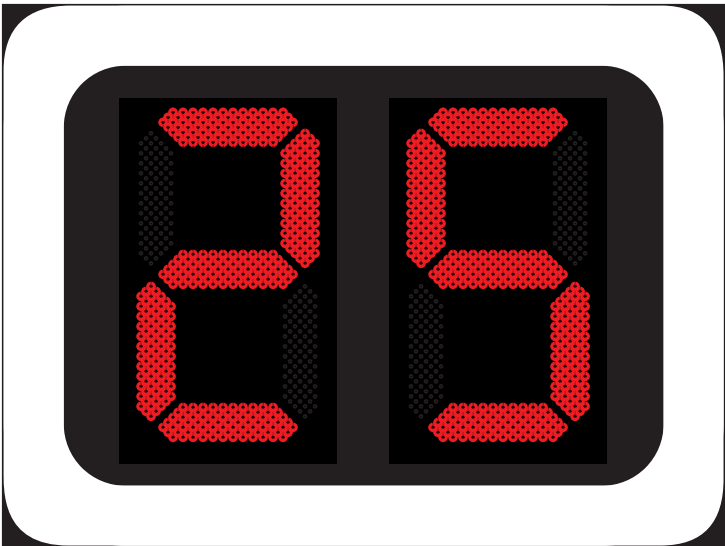


DAKTRONICS TI-2024 PRODUCT SPECIFICATIONS



This outdoor LED delay-of-game (DOG) timer can be configured to count up or down from any preset number from 0 to 99. The timer is upgradable for portable use. Timer shown with optional striping.

DIMENSIONS	UNCRATED WEIGHT	POWER (120 VAC)*	
4'-6" H x 6'-0" W x 8" D (1.37 m x 1.83 m x 203 mm)	140 lb (64 kg)	Red/Amber Digits	85 Watts, 0.7 Amp
		White Digits	185 Watts, 1.5 Amps

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

DIGITS

- All digits are 36" (914 mm) high.
- Select red, amber, or white LED digits.
- Timer features weather-sealed PanaView® digits (see [DD2495646](#)).
- Digits may be dimmed for night viewing.

DISPLAY COLOR

Choose a color from the Daktronics standard paint book (see [SL-02730](#)).

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)

DAKTRONICS TI-2024 PRODUCT SPECIFICATIONS

CONTROL CONSOLE	CONTROL OPTIONS
All Sport® 1600* (see SL-04352) <i>*May be upgraded to</i> All Sport 5000 (see SL-03991)	Wireless: 2.4 GHz spread spectrum radios feature 64 non-interfering channels and 8 broadcast groups (see SL-04370). This is a popular upgrade. <hr/> Wired: 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.
RC-200 (see DD3715714)	Wireless handheld controller features 2.4 GHz spread spectrum radio with 64 non-interfering channels and 8-10 hours of operation via internal rechargeable battery.
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/practice timing operations only.

MOUNTING

Display is typically mounted on two vertical beams or poles. Hardware to mount display 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.

SERVICE ACCESS

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

GENERAL INFORMATION

Display provides two-digit clock timing capabilities. 100% solid state electronics are housed in an all aluminum cabinet. Display is shipped in one section. Display 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.

OPTIONS & ACCESSORIES

- Border striping in multiple colors (see [DD2101644](#))
- Power cord and signal jack for portability
- Four-wheel cart for portability
- Advertising/identification panels

ADVERTISING/IDENTIFICATION PANELS

Backlit & Non-Backlit:

- 1'-6" H x 6'-0" W (457 mm x 1.83 m)
- 2'-0" H x 6'-0" W (610 mm x 1.83 m)
- 2'-6" H x 6'-0" W (762 mm x 1.83 m)

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

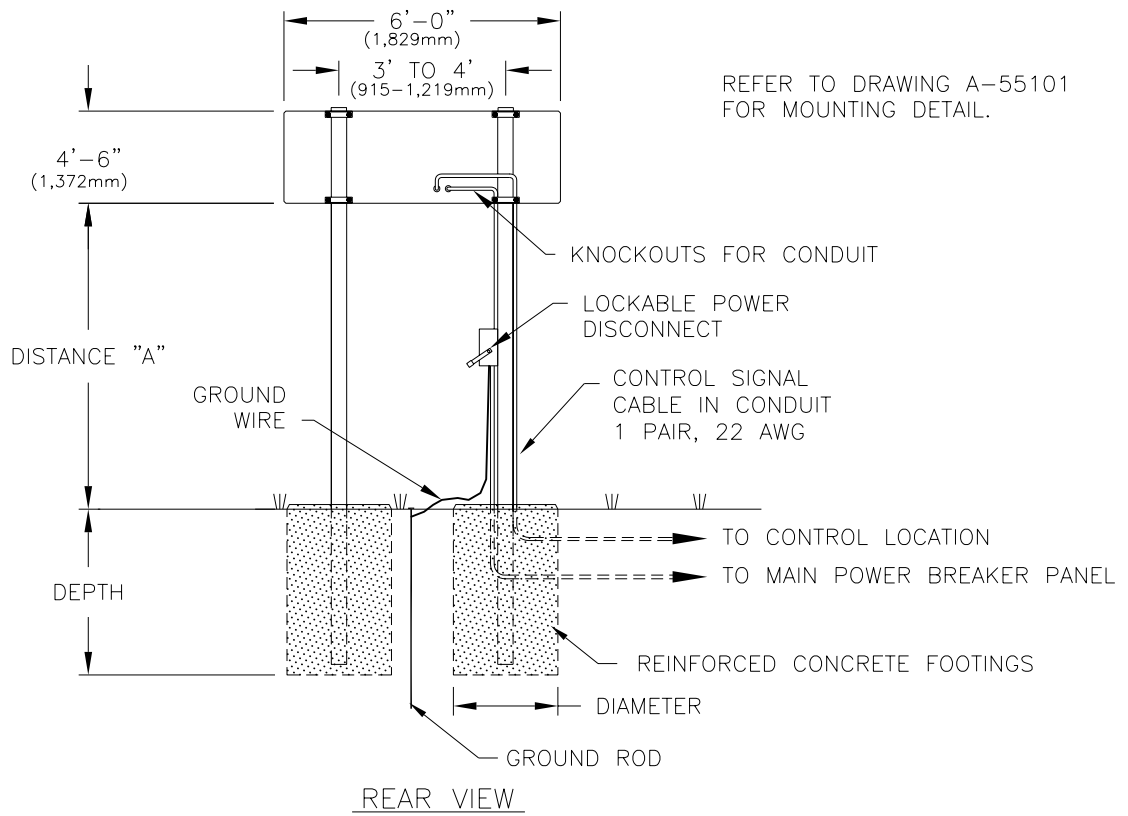
FOR ADDITIONAL INFORMATION

- Installation Specifications: DWG-236147 (attached)
- Standard I-beam Mounting: DWG-1129110 (attached)
- Optional Pole Mounting: DWG-1130246 (attached)
- Component Locations (Red/Amber Digits): DWG-1082051 (attached)
- Component Locations (White Digits): DWG-1081754 (attached)
- Architectural Specifications: See [SL-07549](#)

The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by Daktronics, Inc. is under license.

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





MODEL TI-2024					
DISTANCE "A" (SEE FIGURE)	TOTAL DISPLAY SIZE		DESIGN WIND VELOCITY		
			70 MPH	80 MPH	100 MPH
10'-0"	4'-6" x 6'-0"	BEAM FOOTING	W10x12 2.0 X 4.1	W10x12 2.0 X 4.5	W10x15 2.0 X 5.3
12'-0"	4'-6" x 6'-0"	BEAM FOOTING	W10x15 2.0 X 4.4	W10x15 2.0 X 4.8	W8x18 2.0 X 5.7
14'-0"	4'-6" x 6'-0"	BEAM FOOTING	W6x15 2.0 X 4.6	W8x18 2.0 X 5.1	W6x20 2.0 X 6.0

FOOTING = DIAMETER X DEPTH

FOOTING DIMENSIONS ARE SUGGESTIONS ONLY, PROVIDED TO ASSIST WITH ESTIMATING INSTALLATION COSTS AND ARE NOT INTENDED FOR CONSTRUCTION PURPOSES.

FOOTING DIMENSIONS ARE BASED ON ASSUMED SOIL BEARING PRESSURE OF 2000 LB/FT²

ACTUAL FOOTING DEPTH AND DIAMETER FOR A PARTICULAR INSTALLATION MUST BE DETERMINED BY A QUALIFIED STRUCTURAL ENGINEER, USING DATA FROM A SOIL SAMPLE TEST AT THE SITE.

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

THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS, INCLUDING ELECTRONICALLY WITHOUT THE EXPRESSED WRITTEN CONSENT OF DAKTRONICS, INC. COPYRIGHT 2002 DAKTRONICS, INC.

DAKTRONICS, INC. BROOKINGS, SD 57006

PROJ: OUTDOOR SCOREBOARDS

TITLE: INSTALLATION SPECS; TI-2024

DES. BY: CCAIN

DRAWN BY: CCAIN

DATE: 08 MAR 05

REVISION

APPR. BY:

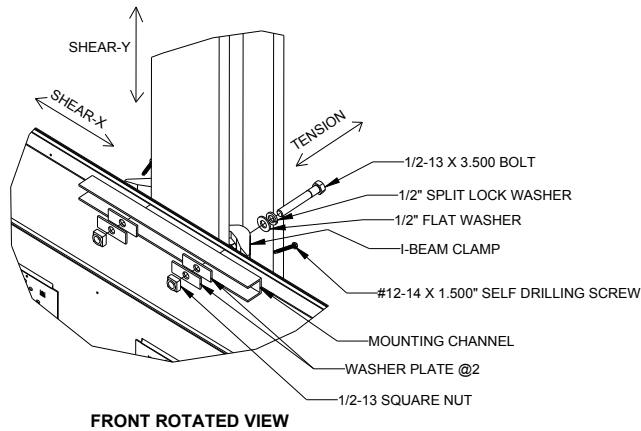
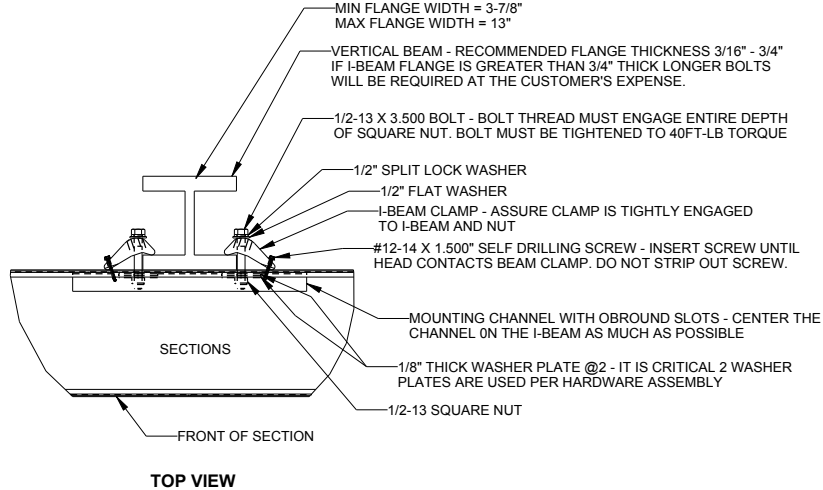
02

SCALE: 1=50

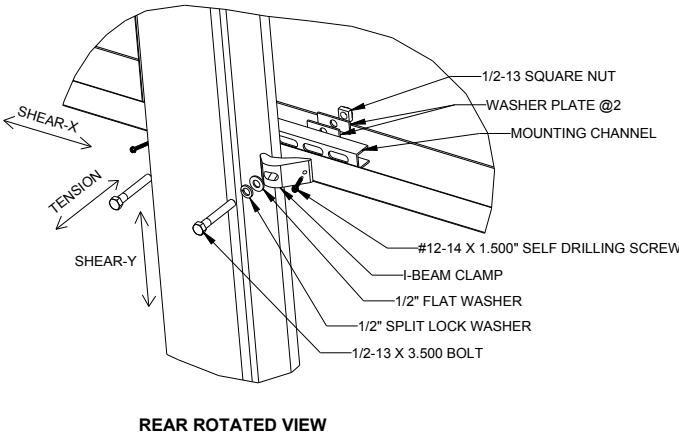
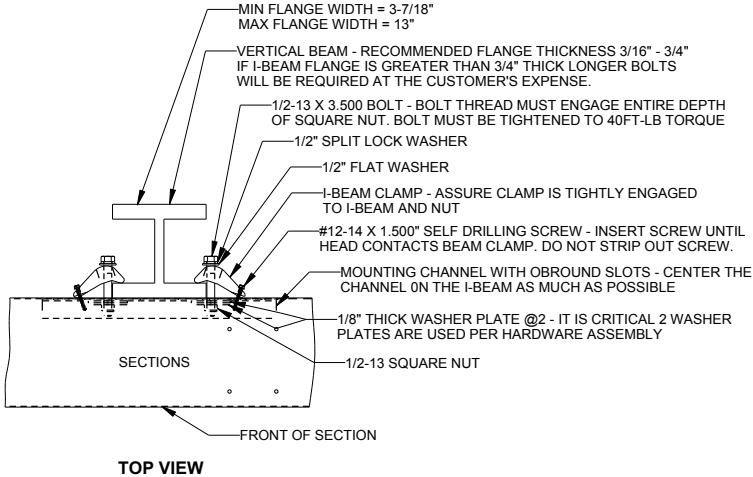
1192-E10A-236147

02	25 OCT 07	ADDED MILLIMETERS DIMENSIONS	KDD	
01	20APRIL05	CHANGED COLUMN AND FOOTING DIMENSIONS	JLB	
REV.	DATE	DESCRIPTION	BY	APPR.

STANDARD SHEETMETAL SCOREBOARD/BACKLIT
AD PANEL MOUNTING METHOD



STANDARD NON-BACKLIT AD PANEL MOUNTING METHOD



QUALIFIED FOR SECTIONS UP TO 5' IN HEIGHT
USING RECOMMENDED STRUCTURE


ALLOWABLE CAPACITY PER EACH CLAMP:
SHEAR = 160 LBS
TENSION = 1376 LBS

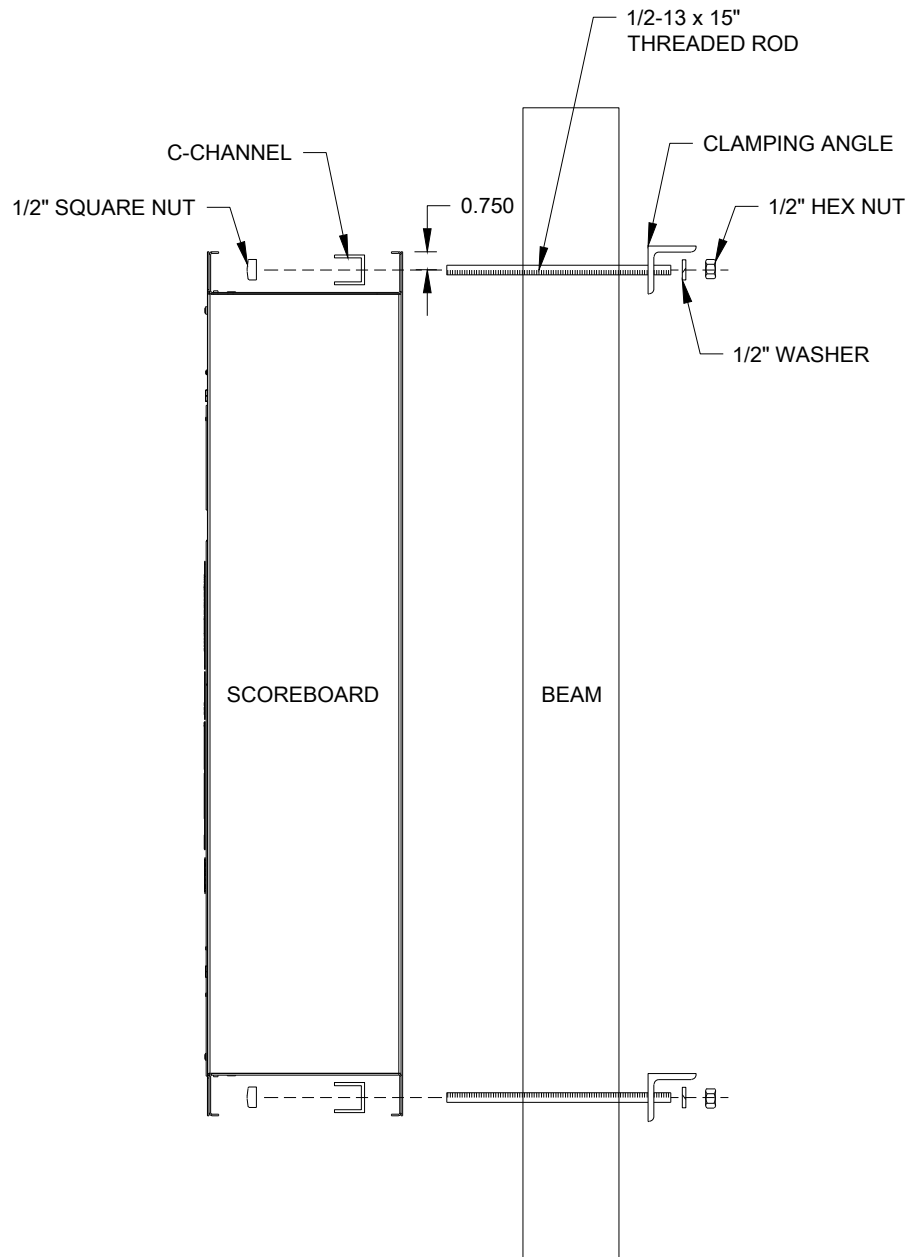
SHEAR AND TENSION LOAD
DIRECTION ARE AS INDICATED ON
ROTATED VIEWS

MOUNTING INSTRUCTIONS:

1. LIFT THE FIRST SECTION OF THE DISPLAY INTO POSITION
AGAINST I-BEAMS.
NOTE: IF THE DISPLAY IS MADE UP OF MULTIPLE SECTIONS
ALWAYS INSTALL THE BOTTOM SECTION FIRST AND WORK UP.
2. STARTING ON THE TOP OF THE SECTION BEING INSTALLED
MARK AND DRILL 9/16" HOLES IN THE CENTER OF THE TOP
FLANGE OF THE SECTION. MAKE SURE THE HOLES ARE
POSITIONED AS CLOSE TO THE I-BEAM FLANGES AS POSSIBLE.
3. INSTALL ALL THE HARDWARE SHOWN PROVIDED AND TIGHTEN
THE SECTION IN THE DESIRED LOCATION.
4. ONCE THE TOP OF THE SECTION IS SECURE MOVE TO THE
BOTTOM OF THE SECTION AND REPEAT THE STEPS ABOVE.
5. IF THE DISPLAY IS MADE OF MULTIPLE SECTIONS REPEAT
THE ENTIRE PROCEDURE ABOVE.
6. ENSURE ALL 1/2" HARDWARE IS TORQUED TO THE SPECIFIED
AMOUNT.

REV 02	DATE: 17 JUN 15	CHANGED TENSION CAPACITY TO 1376 LBS ADDED MINIMUM AND MAXIMUM FLANGE WIDTHS	BY: AMP
REV 01	DATE: 8 JAN 14	ADDED ALLOWABLE TENSION AND SHEAR CAPACITY DETAILS ADDED NON-BKLT AD PANEL MOUNTING DETAILS CHANGED DIMS TO B SIZE	BY: JAVA

 DAKTRONICS, INC. BROOKINGS, SD 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 EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. COPYRIGHT 2014 DAKTRONICS, INC.	
PROJ: OUTDOOR SCOREBOARD			
TITLE: I-BEAM CLAMP MOUNTING, SHEET METAL ATTACHMENT			
DESIGN: KSCHNABEL	DRAWN: KSCHNABEL	DATE: 17-JUN-15	
SCALE: 1/8"			
SHEET: 1 OF 1	REV 02	JOB NO: P 1753	FUNC-TYPE-SIZE: E - 10 - B
			1129110



MOUNTING INSTRUCTIONS:

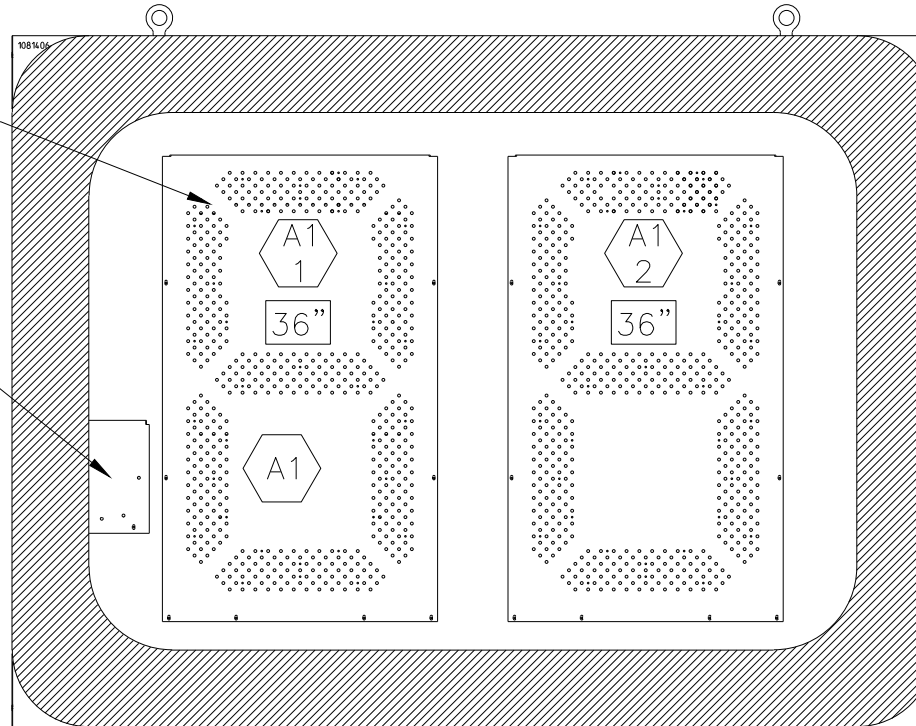
1. USE THE MOUNTING CHANNEL TO DETERMINE WHICH HOLE COMBINATION SHOULD BE USED. BE SURE TO KEEP THE BOLT AS CLOSE TO THE BEAM AS POSSIBLE.
2. USING THE MOUNTING CHANNEL AS A TEMPLATE, DRILL 9/16" HOLES IN THE UPPER AND LOWER REAR FLANGE OF SCOREBOARDS WHERE THE SUPPORTS WILL GO.
3. PLACE SQUARE NUTS INSIDE CHANNEL AND THREAD BOLTS THROUGH.
4. LIFT SCOREBOARD INTO POSITION WITH BOLTS STILL IN PLACE.
5. PLACE MOUNTING ANGLES OVER EACH PAIR OF BOLTS AND SECURE WITH LOCK WASHERS AND HEX NUTS.
6. WHEN SCOREBOARD IS ADJUSTED TO FINAL DESIRED POSITION, TIGHTEN HEX NUTS FIRMLY.

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 2013 DAKTRONICS, INC.	
DO NOT SCALE DRAWING			
PROJ: OUTDOOR SHEET METAL SCOREBOARDS			
TITLE: SCOREBOARD MOUNTING			
DESIGN: KDRAGT		DRAWN: KDRAGT	
SCALE: 1=8		DATE: 14 MAR 13	
SHEET	REV	JOB NO:	FUNC - TYPE - SIZE
	00	P1753	E - 10 - A
			1130246

TI-2024-R/A

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

OPTIONAL RADIO



FRONT VIEW

NOTES:

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

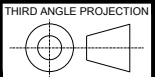
 = DIGIT SIZE

 = DRIVER NUMBER

REV 04	DATE: 11 AUG 20	PER CN-107919 REMOVED LABELS TO MOVE TO NEW STANDARD	BY: TAN
REV 03	DATE: 04 MAY 16	PER EC-21289, UPDATED DIGIT DESIGNATION, REMOVED 3/4	BY: KDD
REV 02	DATE: 27 FEB 15	PER EC-17119, REMOVED DETAIL A ADDED SIGNAL OPTION NOTE CHANGED MASTER TO PRIMARY	BY: KDB
REV 01	DATE: 26 JUN 12	UPDATED FRONTSHEETS PER EC-6065	BY: KDD

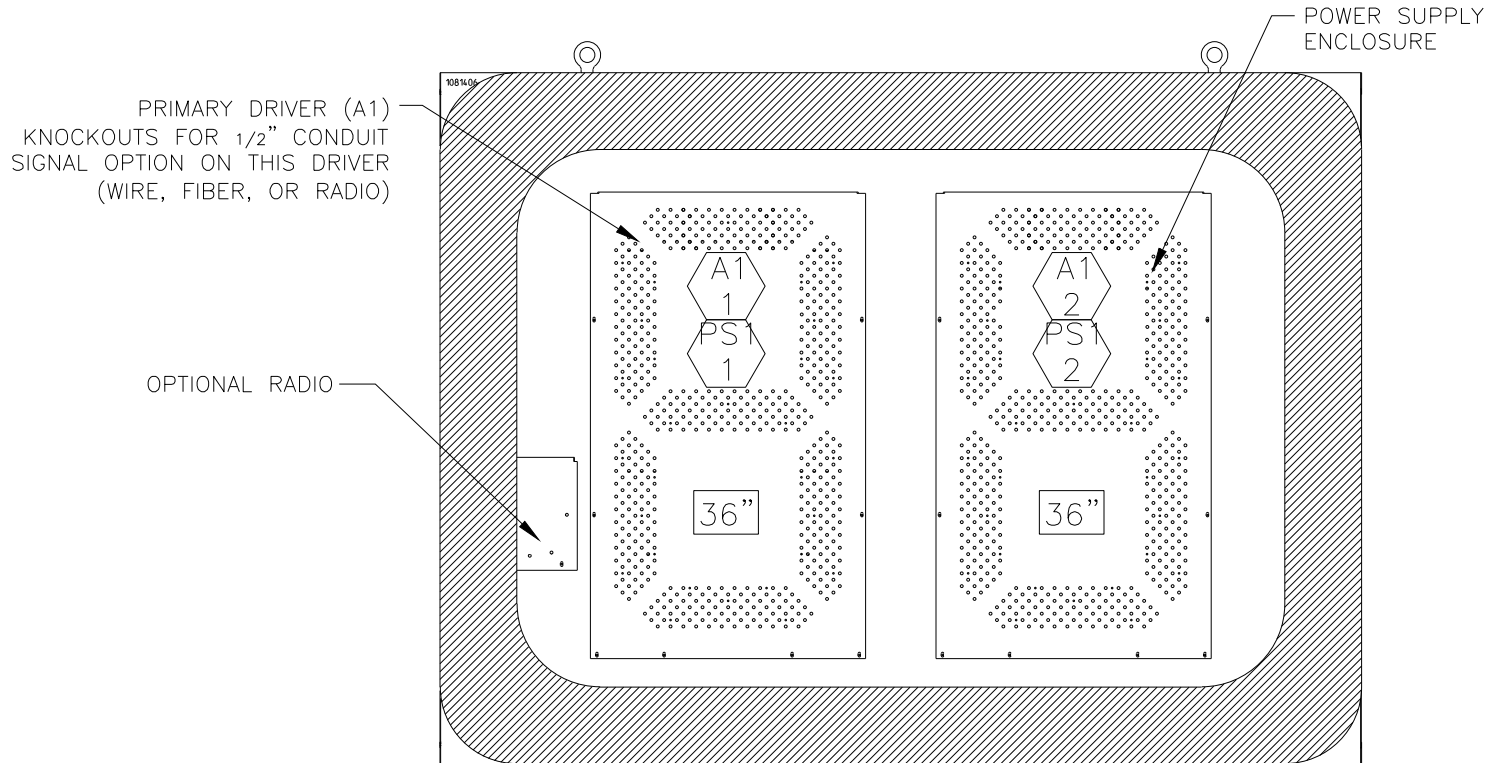


THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING
ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY
ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF
DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES.
COPYRIGHT 2016 DAKTRONICS, INC. (USA)



PROJECT: OUTDOOR EXTRUDED SCOREBOARDS			
TITLE: COMPONENT LOCATION: TI-2024-201X-R/A			
DATE: 24 JAN 12	DIM UNITS: INCHES [MILLIMETERS]	SHEET	REV
SCALE: 1=15	DO NOT SCALE DRAWING		04
DESIGN: KDRAGT	JOB NO.	FUNC - TYPE - SIZE	1082051
DRAWN: LGROOTW	P1647	E - 10 - A	

TI-2024-W



FRONT VIEW

NOTES:

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

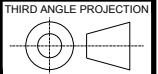
= DIGIT SIZE

= POWER SUPPLY NUMBER &
POWER SUPPLY CONNECTOR
WIRED TO THAT DIGIT

REV 04	DATE: 11 AUG 20	PER CN-107919 REMOVED LABELS TO MOVE TO NEW STANDARD	BY: TAN
REV 03	DATE: 04 MAY 16	PER EC-21289, UPDATED DIGIT DESIGNATION. ADDED POWER SUPPLY DESIGNATIONS	BY: KDD
REV 02	DATE: 27 FEB 15	PER EC-17119, REMOVED POWER AND DRIVER DETAILS ADDED SIGNAL OPTION NOTE CHANGED MASTER TO PRIMARY	BY: KDB
REV 01	DATE: 26 JUN 12	UPDATED FRONTSHEET PER EC-6065	BY: KDD



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 2016 DAKTRONICS, INC. (USA)



PROJECT: OUTDOOR EXTRUDED SCOREBOARDS			
TITLE: COMPONENT LOCATION: TI-2024-201X-W			
DATE: 19 JAN 12	DIM UNITS: INCHES [MILLIMETERS]	SHEET	REV
SCALE: 1=15	DO NOT SCALE DRAWING		04
DESIGN: KDRAGT	JOB NO. P1647	FUNC - TYPE - SIZE E - 10 - A	
DRAWN: LGROOTW			

1081754