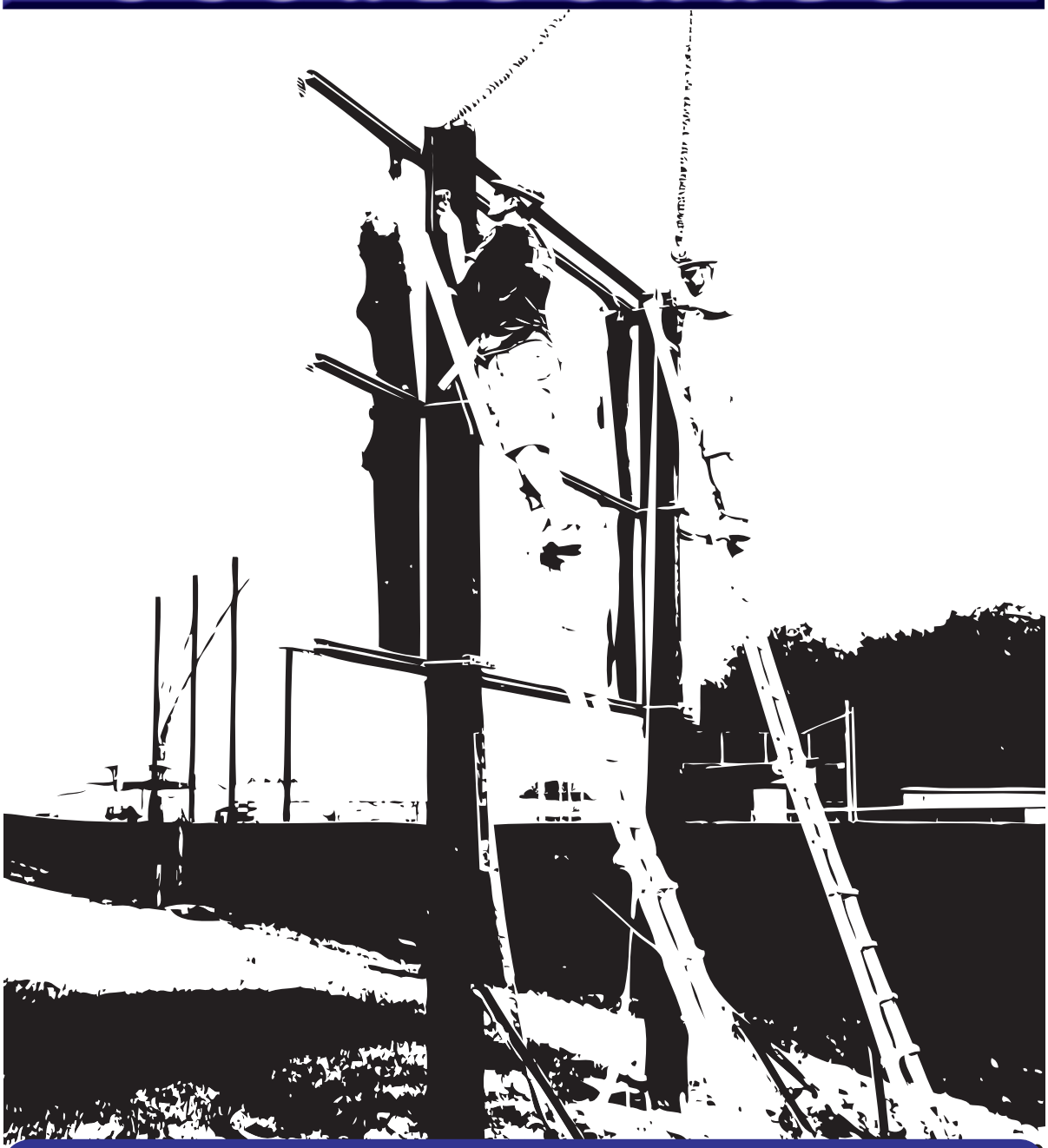
ALL AMERICAN SCOREBOARDS™



Site Installation | Model MP-8430

Everbrite

Rev. 11/9/2010

SCOREBOARD SITE INSTALLATION INSTRUCTIONS

CAUTION: All American Scoreboards (AAS) recommends the sign be installed by a licensed contractor, and must meet all local and national building codes.

NOTE: AAS RECOMMENDS USING A BOOM/FORKLIFT/CRANE OF SUITABLE SIZE TO USE IN INSTALLATION.

Unpacking/Pre-Installation

Dependent on the Model ordered, the All American Scoreboard unit comes crated with different items attached and/or unattached and with different installation hardware.

! OPERATION OF THE UNIT WITH THE ELECTRICAL CIRCUITRY EXPOSED IS DANGEROUS. BE SURE ALL TOOLS AND ANY OTHER MATERIALS ARE REMOVED FROM THE UNIT, AND ALL ACCESS COVERS ARE REPLACED AND CLOSED BEFORE POWER IS TURNED ON.

NOTE: Take care uncrating as not to damage the units.

The shipment should include:
- Installation instructions (this document).
- Operator's Manual.
- LED Scoreboard Cabinet(s).
- Keypad Console.
- Scoreboard Antenna (Radio System only)
- Junction Box (Hard-wire only)
- Mounting Hardware (see parts list.)

NOTE: Upon receipt, check for visible damage. If damage is found at the time of delivery, consignee must obtain an 'Inspection of Bad Order' from the delivering carrier.

If damage is found after shipment has been accepted, visit www.AllAmericanScoreboards.com for the damage claim procedure or contact your sales rep.

- Installation Steps -

Prior to installation, set I-Beams in required concrete footing. Footing depth varies heavily by soil conditions, climate and environmental factors. Depth of footing must comply with local ordinances. I-Beams must be level.

Step 1: Scoreboards are installed from the bottom up and connected by pins. Measure from the top of the I-Beams to the appropriate length so the top of the scoreboard (or scoreboard + ad panels) will be flush with the top of the I-Beam.

Step 2: Screw Threaded Rods (Item 7) into the Spring Nuts (Item 8) and tighten using 1/2" Nut and Lock Washer (Items 9 and 10).

Step 3: Lift one lower panel and center between 2 appropriate poles. **It is critical that the bottom panels are level to ensure upper panels and entire scoreboard are also level.**

Step 4: Install Spring Nuts with Threaded Rods by sliding in from the end or twist them CLOCKWISE into the mounting channels on the back of the scoreboard (the spring nuts have a rounded edges for twisting clockwise only), approximate position on each side of the I-beams (See Figure 2).

Step 5: After leveling and centering the lower panel, secure to I-beams using the supplied 12" strut (Item 4) and 1/2" Flat Washer, Lock Washer and Hex Nut (Figures 9,10,11), taking care not over tighten and strip or pull the spring nuts out, **50/60 FT/LB torque max** (See Figure 2, Detail A). The first lower panel should be secured using 4 12" strut channels. **Repeat steps 3-5 with the second lower cabinet.**

Step 6: Secure the right and left panels with the supplied Splice Connector. Connector will be stored in the strut channel near the inside edge of the cabinets. Loosen 4 bolts to slide channel over equal parts of each cabinet. When centered between the two edges, tighten bolts securely. Repeat on other channel connection.

Step 7: Lower upper middle panel a few inches over the center of the two bottom panels. Remove adhesive from the upper pannel and carefully route cables through both holes of the upper cabinet and down through each of the lower cabinets through the cable channels, ensuring to not stress the cables..

Step 8: Lower upper panel onto pins and cable channels of the bottom panel. Use the same strut mounting procedure (see Figure 2) as the lower panel. Upper panels are secured by using 4 12" strut channels.

Step 9: Repeat Steps 7 & 8 with the two remaining Cabinets. Secure each cabinet first with 2 12" Unistrut Channels and then with The supplied Splice Connectors using the same procedure as Step 6. After all panels are mounted, go to Step 10 if an Ad Panel will be used. If no Ad Panels will be installed, skip to Step 11.

Step 10: If using an Advertiser Panel, using a 9/16" drill, drill through the I-Beam to install the Mounting Angle (Item 5) on to the outside top of the I-Beam (see Figure 1). Attach a two piece Advertiser Panel using a 3/16" bar on top with 4-3/8" bolts, nuts and washers and the sides with 2-3/8" bolts, nuts and washers.

Step 11: Remove the face exposing the controller assembly of the scoreboard unit (located on the upper face between DOWN and TO GO) by unscrewing the PH screws, top and sides, lift and remove the face and set aside for reinstallation. Connect cables from the upper panels (HOME and TIMER) to the Controller Plate Assembly according to the connector labels on the harness, (see Back Page), be sure to use a drip loop and keep a 1/2" space from the bottom of the unit. Connectors will be labeled appropriately. There will be an adhesive sheet mounted inside the scoreboard or inside controller assembly cover with detailed information on wiring.

Step 12: Remove the face between BALL ON and QTR by unscrewing the PH screws, top and sides, lift and remove the face and set aside for reinstallation. Connect cables from the upper panels (GUEST and TIMER) according to the connector labels on the harness, be sure to use a drip loop and keep a 1/2" space from the bottom of the unit. Connectors will be labeled appropriately.

Step 13: HARD-WIRE ONLY. Install the Junction Box at chosen location (i.e. press box or dug-out) and hook-up Power/Data Cable to terminal block (see Figure 3 Detail-D).

Step 14: Attach the grounding wire to ground.

Step 15: Install the cable conduit and the power cut of switch box (recommended) onto the beam and run the power through the conduit to the sign.

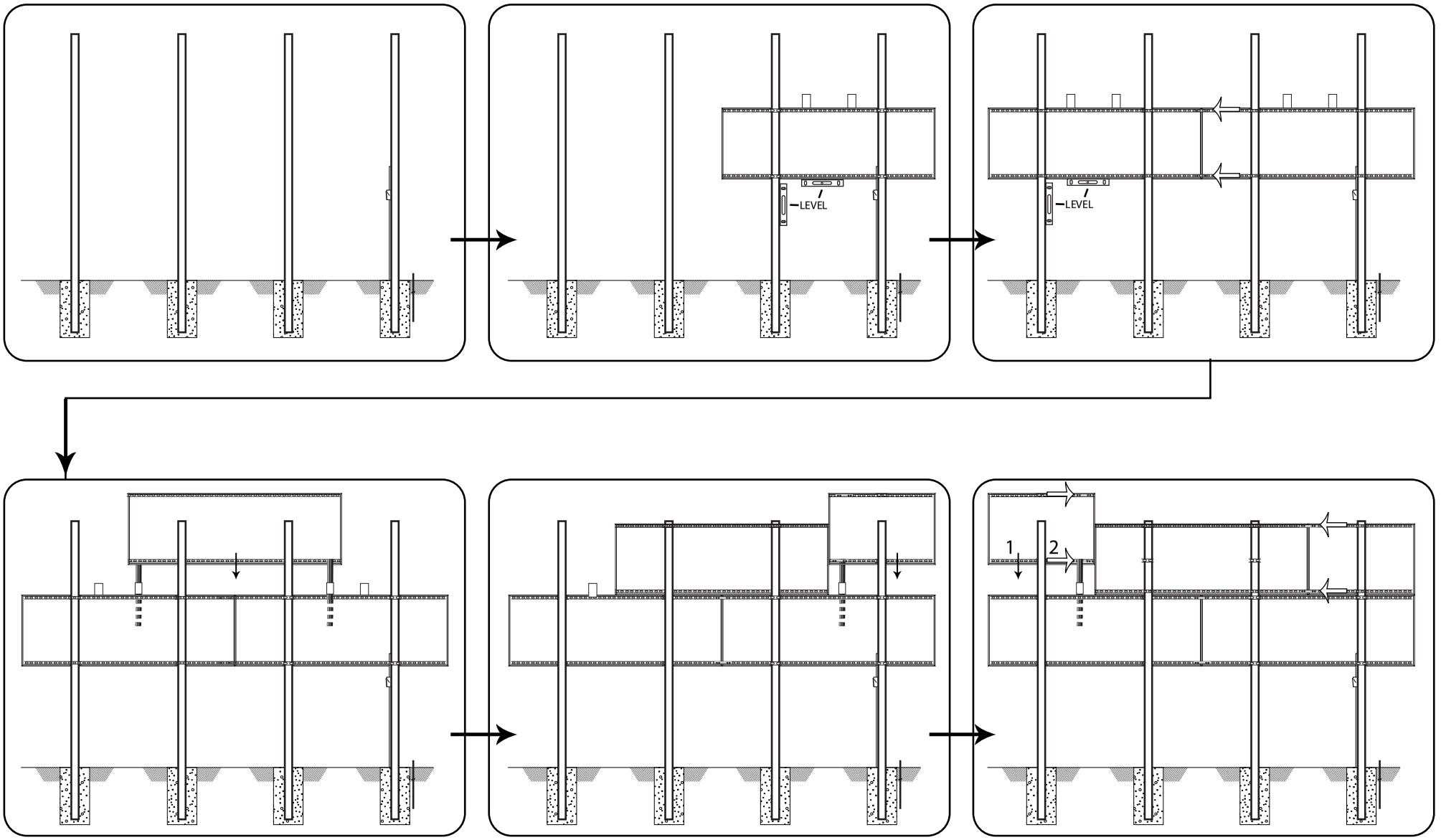
Step 16: HARD-WIRE ONLY. Install the cable conduit onto the beam and run the data cable from the junction box through the conduit to the data box on the back of the scoreboard. Attach the data cable - Pin 5 on console (and scorer's booth junction box) will connect to the Blue and White wire, Pin 4 will connect to the Blue Wire.

Step 17: RADIO ONLY. Remove the RED button cover from the antenna mount located on the face of the board and screw on the extra antenna.

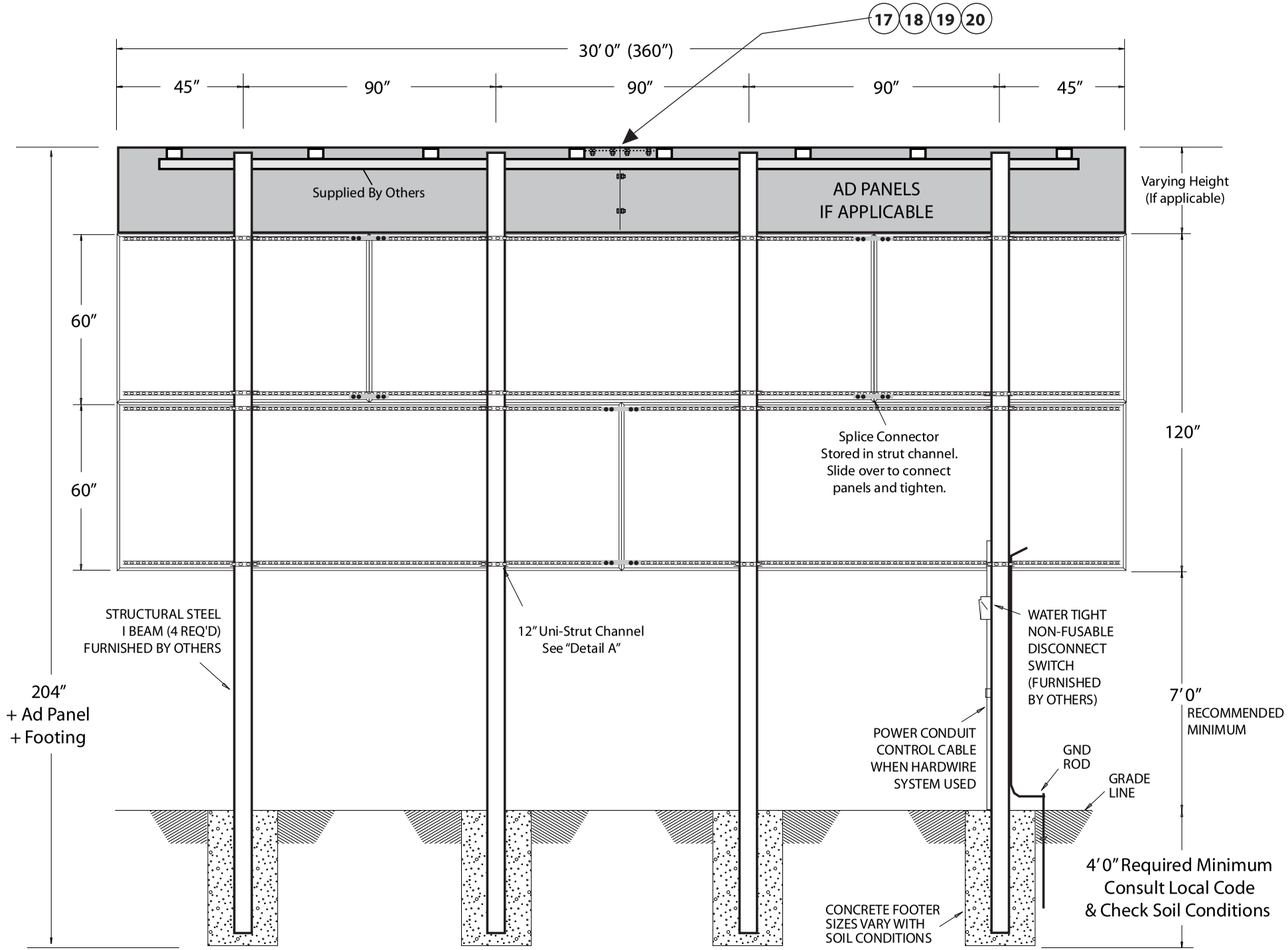
Step 18: Attach the Board power line to the terminal block in the power supply assembly; Black to Line, White to Neutral, Green to Ground. Reinstall cover.

Step 19: Reinstall board face into cabinet frame.

Step 20: Power up scoreboard and run set-up as described in Operator's Manual.

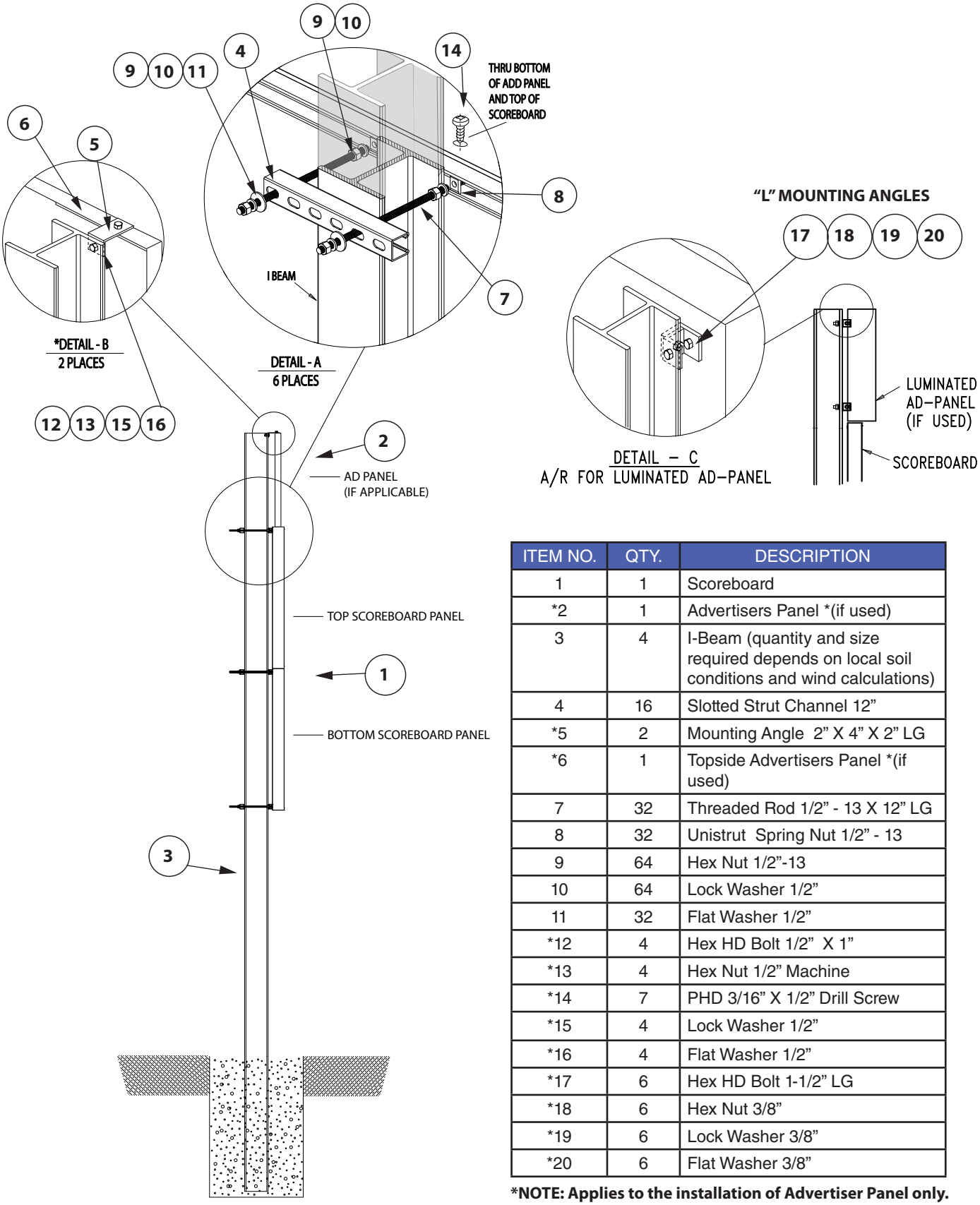


Typical Multi-Panel Scoreboard Installation Illustration



NOTE: Foundation shown for illustration only. Actual foundation needs to meet national and local building codes. Sites must be surveyed by qualified engineer. All measurements are for reference only.

Figure 2: Mounting and Ad Panel Detail.



ITEM NO.	QTY.	DESCRIPTION
1	1	Scoreboard
*2	1	Advertisers Panel *(if used)
3	4	I-Beam (quantity and size required depends on local soil conditions and wind calculations)
4	16	Slotted Strut Channel 12"
*5	2	Mounting Angle 2" X 4" X 2" LG
*6	1	Topside Advertisers Panel *(if used)
7	32	Threaded Rod 1/2" - 13 X 12" LG
8	32	Unistrut Spring Nut 1/2" - 13
9	64	Hex Nut 1/2"-13
10	64	Lock Washer 1/2"
11	32	Flat Washer 1/2"
*12	4	Hex HD Bolt 1/2" X 1"
*13	4	Hex Nut 1/2" Machine
*14	7	PHD 3/16" X 1/2" Drill Screw
*15	4	Lock Washer 1/2"
*16	4	Flat Washer 1/2"
*17	6	Hex HD Bolt 1-1/2" LG
*18	6	Hex Nut 3/8"
*19	6	Lock Washer 3/8"
*20	6	Flat Washer 3/8"

***NOTE: Applies to the installation of Advertiser Panel only.**

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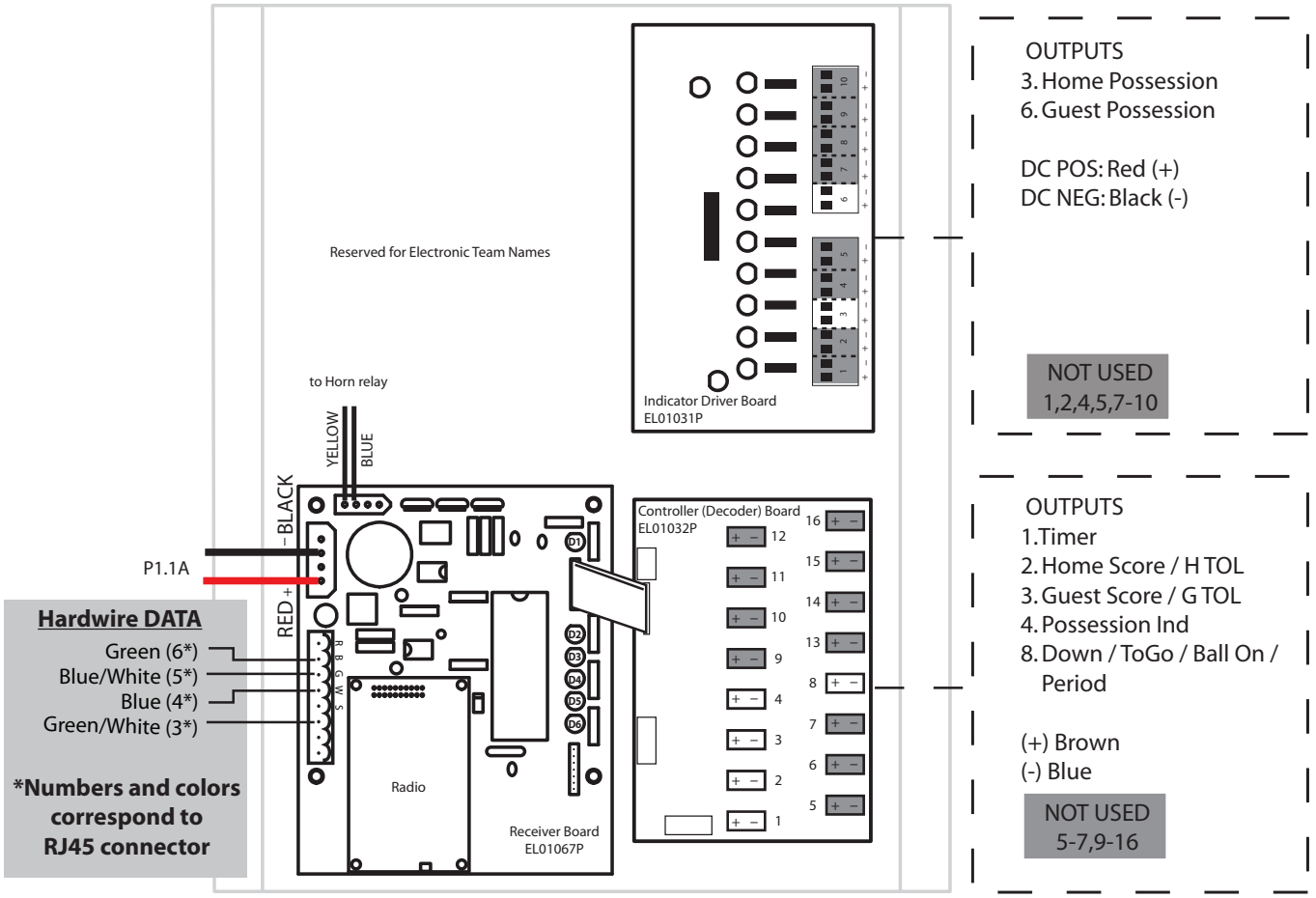
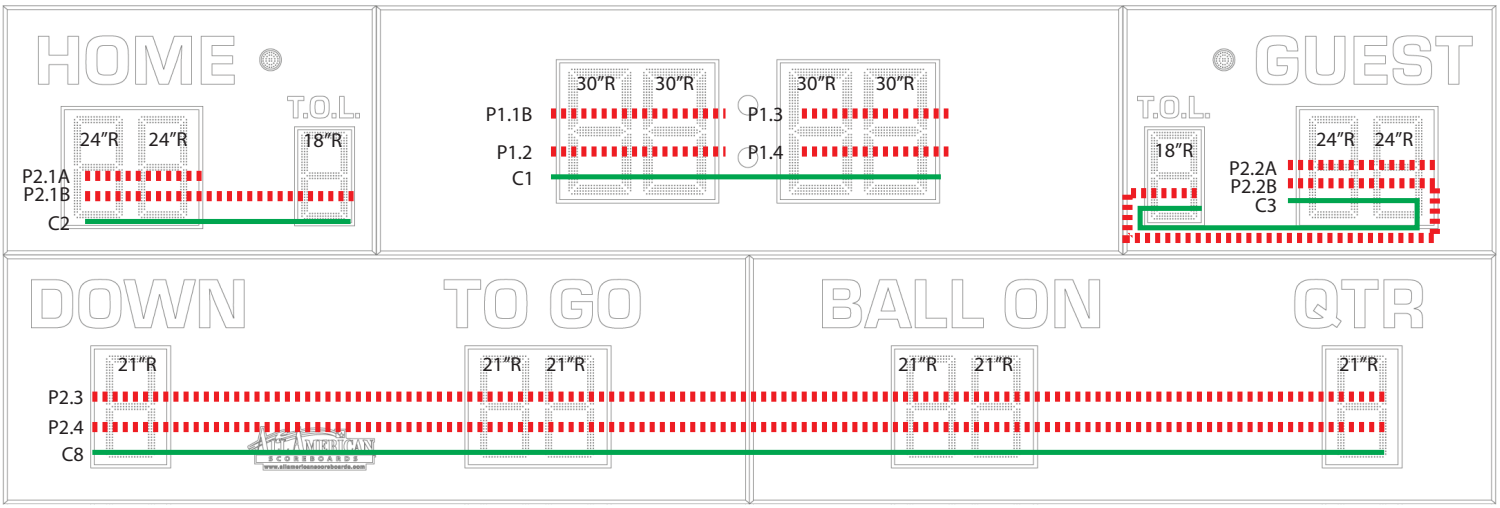


8430 Football Controller Plate

Scoreboard Type: 400



Power Supply Outputs (Full Brightness & Full Digits): P1.1≈2.78A P1.2≈2.37A P1.3≈2.37A P1.4≈2.37A
P2.1≈4.00A P2.2≈4.0A P2.3≈3.89A P2.4≈3.89A

"C" refers to controller board output. If Indicators are used, C4 data will go to the Indicator Driver Board and then to the digit(s).

= DATA = 10.5VDC POWER

115 VAC / 60 Hz - 6.0 Amps