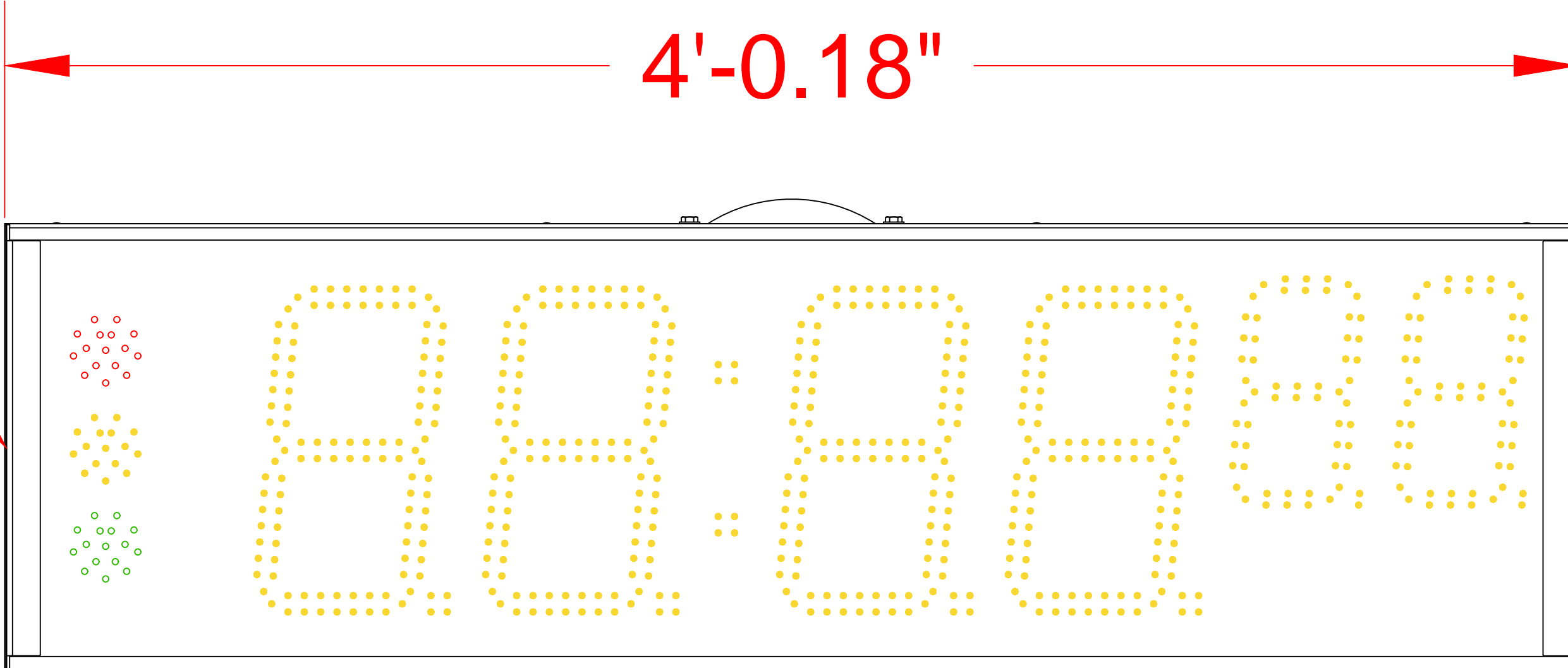


DISPLAY OVERVIEW

**CTS 1-LANE CHALLENGE COURSE TIMER**  
 (4) 10" AMBER DIGIT  
 (1) 10" AMBER COLON  
 (2) 7" AMBER DIGIT  
 (1) 2" RED DOT  
 (1) 2" AMBER DOT  
 (1) 2" GREEN DOT



**HSS Ø5.00" X 0.25" COLUMN WITH 1/4" CAP PLATE INSTALLED BY OTHERS**

**COLUMN & FOOTING DETAILS SPECIFIED AND APPROVED BY OTHERS  
 COLUMN TO BE IN PLACE PRIOR TO RACE TIMER INSTALLATION**

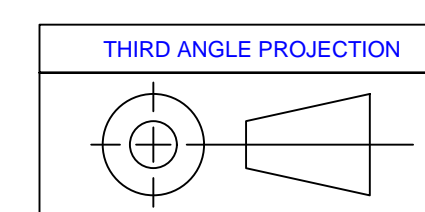
**SIGNAL AND POWER CABLES MUST BE ROUTED IN SEPARATE CONDUITS!**

**1'-1.75"**

**11'-0" MIN.**

- NOTES:**
- APPROXIMATE TOTAL DISPLAY WEIGHT: 25 LBS [11.3 KG]
  - DIMENSIONS ARE APPROXIMATE AND SUBJECT TO CHANGE DUE TO DETAILED DESIGN CONSIDERATIONS
  - ALL CONSTRUCTION AND FABRICATION MUST MEET ALL APPLICABLE LOCAL, STATE, AND NATIONAL CODES
  - ALL ON-SITE WORK MUST BE DONE IN ACCORDANCE WITH OSHA AND ALL LOCAL CODES THAT APPLY
  - CTS ASSUMES NO RESPONSIBILITY FOR INSTALLATIONS PERFORMED BY OTHERS

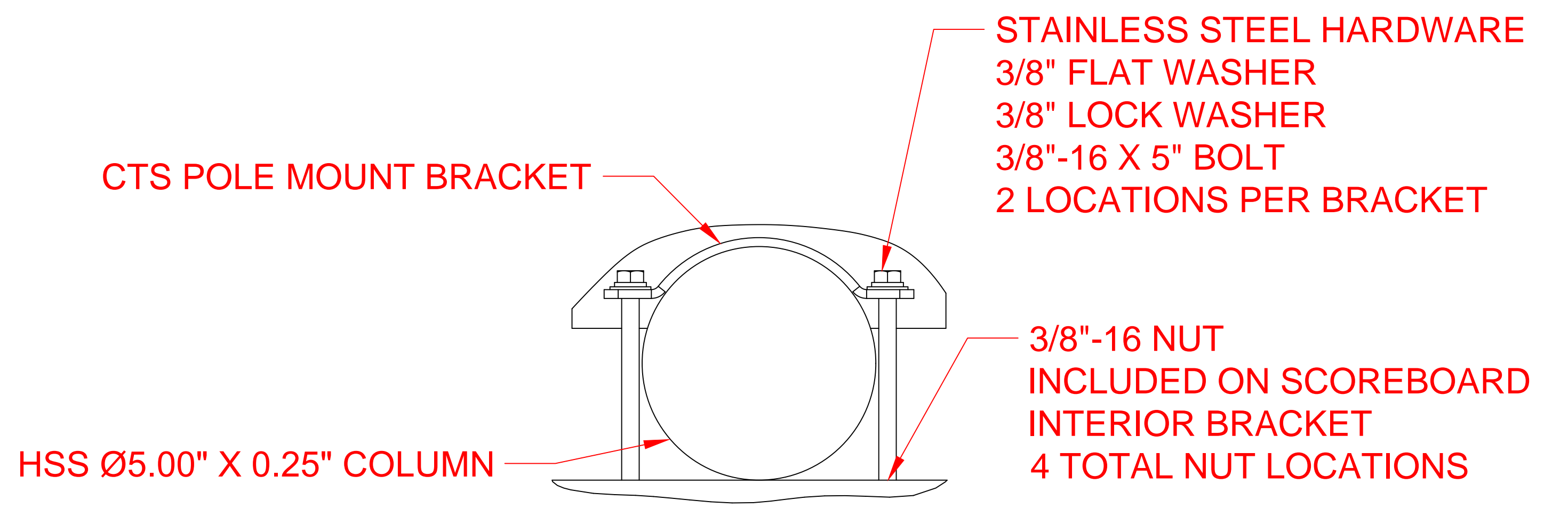
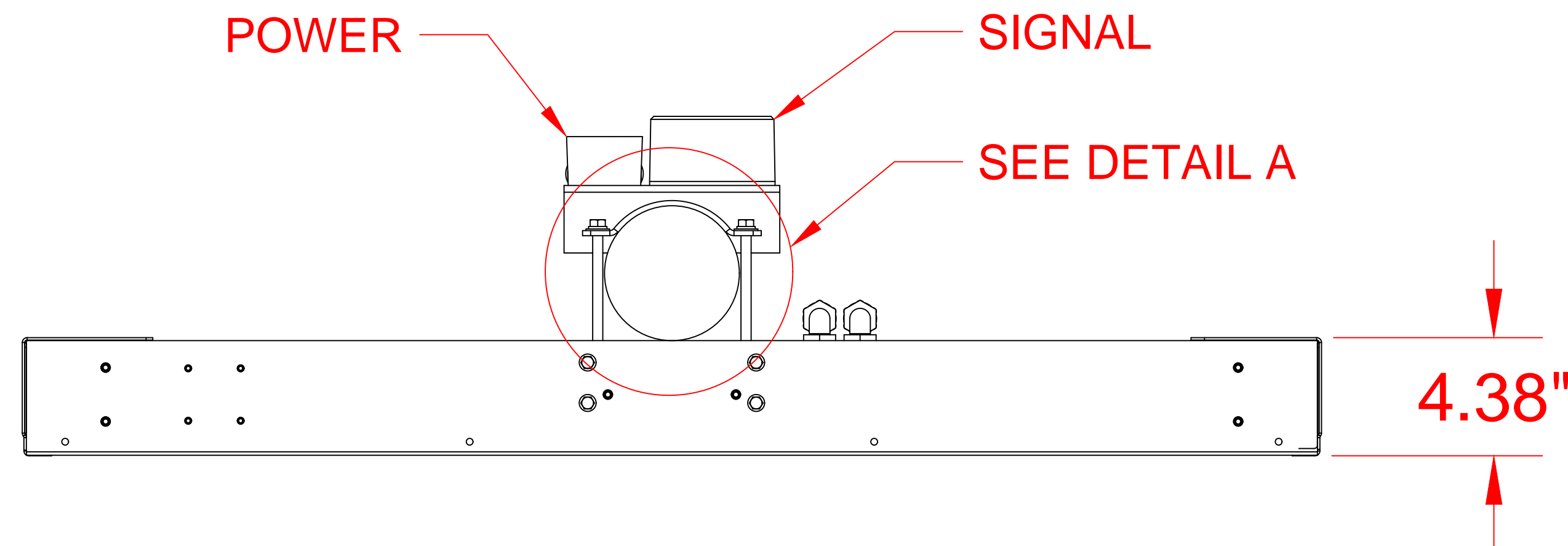
REV	DESCRIPTION	ECO/PCO #	DATE	APPROVED
C1	NOTES UPDATE PAGE 6 AND 7	5070	2017/02/24	VAB
C	CHG PUSH BUTTON TO DCC 200	5070	2016/01/12	VAB
B1	CHG PUSH BUTTON NOTES	5018	01/13/2016	VAB
B	CHG PULL BOX/ADD SPRINKLER WIRE NOTES	4964	03/14/2016	MMB
A	RELEASE FOR INFORMATION	4898	10/14/15	PJS



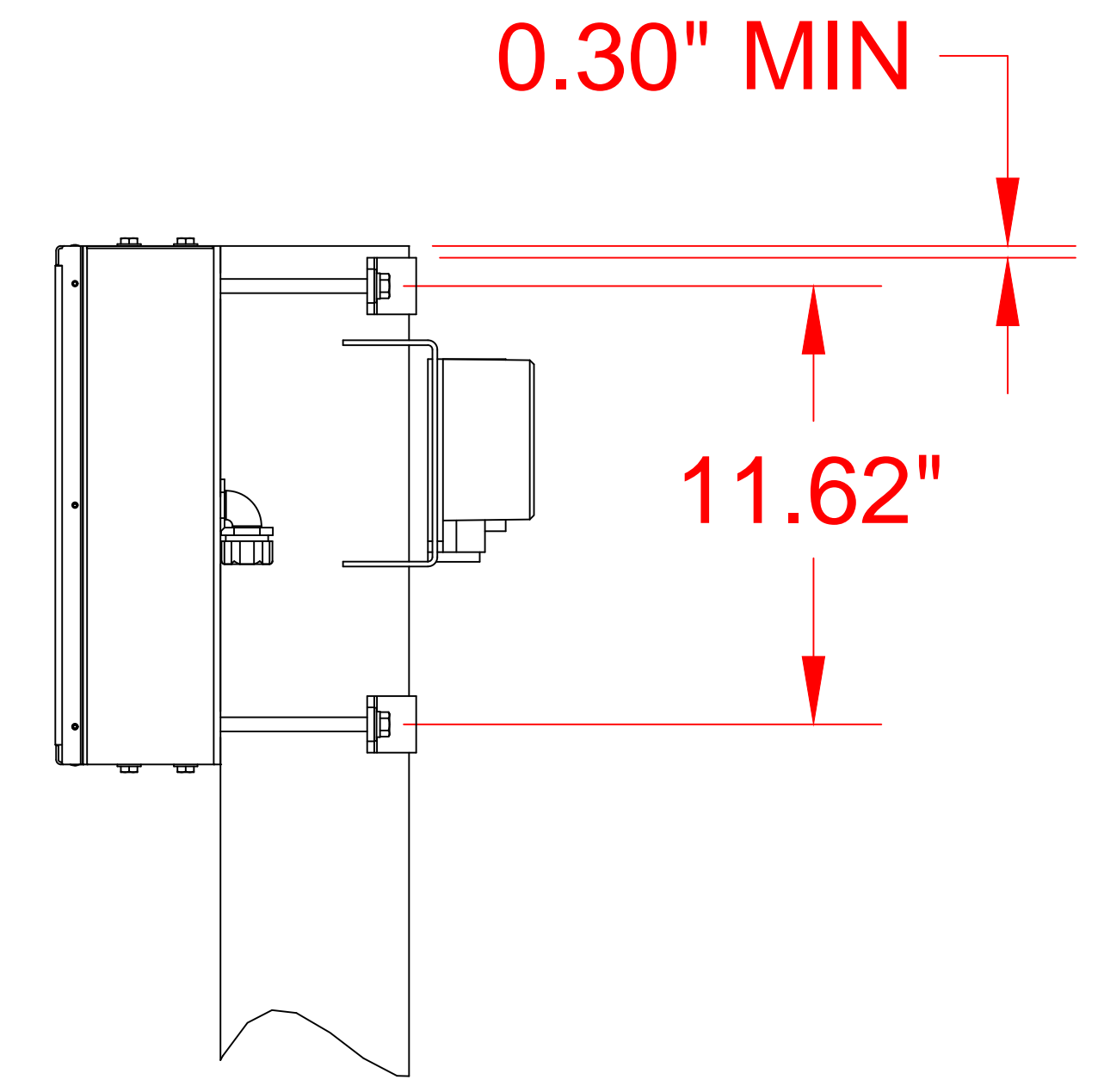
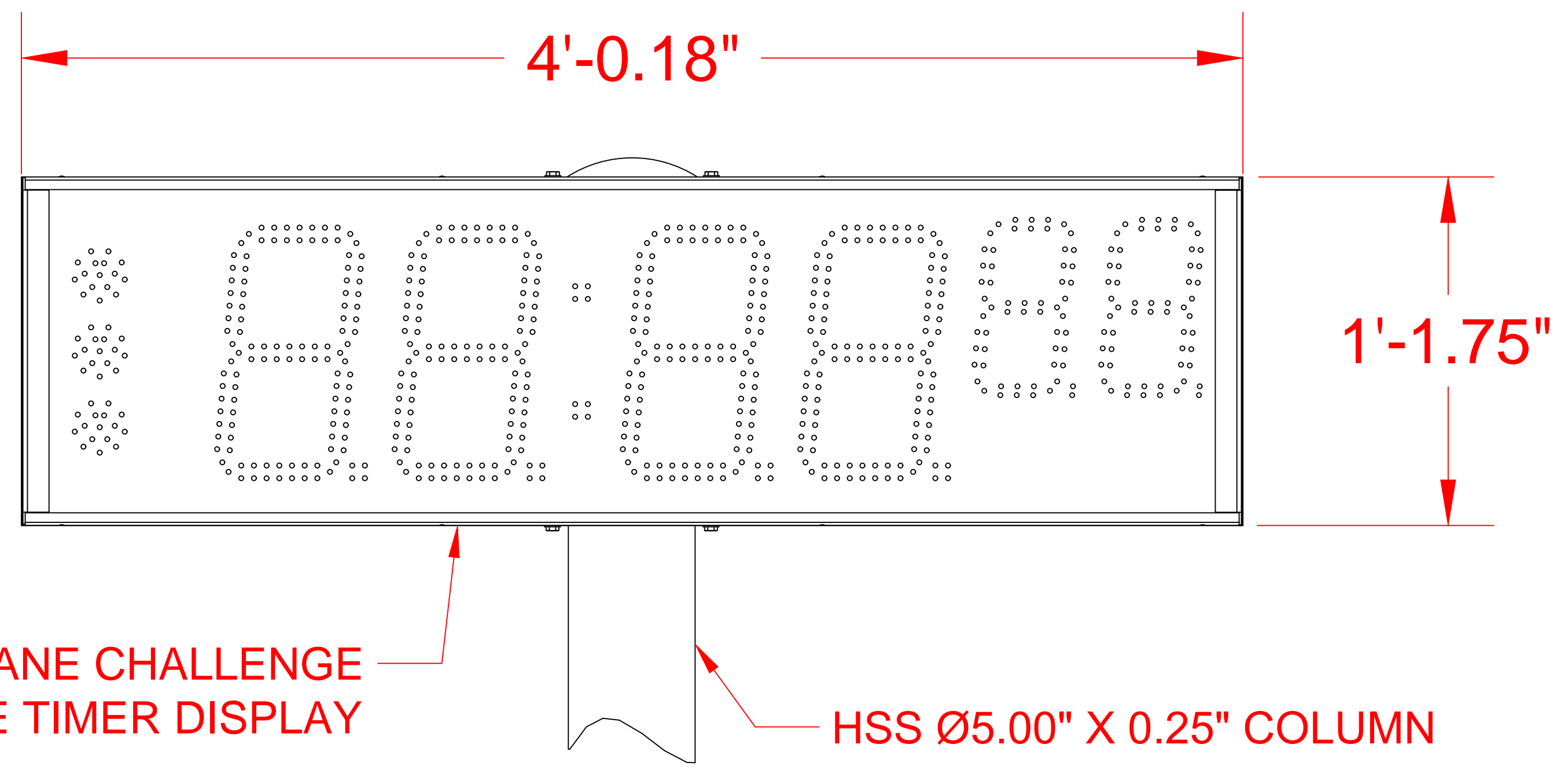
UNLESS OTHERWISE SPECIFIED:  
 VARIATIONS IN FORM FOR UNMACHINED FEATURES ARE PERMITTED WITHIN ESTABLISHED COMMERCIAL STANDARDS. ALL EDGES AND CORNERS 0.005-0.020 (APPROX RADIUS OR CHAMFER). ALL FILETS 0.005-0.020 (APPROX RADIUS). SCREW THREADS PER ANSI B1.1 - PIPE THREADS PER ANSI B1.1 - SURFACE ROUGHNESS PER ANSI B46.1 - SURFACE ROUGHNESS ON HOLES 250 MAX

ALL DIMS IN INCHES UNLESS OTHERWISE NOTED INCH [MM] 1 INCH = 25.4MM	TOLERANCES EXCEPT AS NOTED	INCHES X ± 0.02 XX ± 0.02 XXX ± 0.005	MM X ± XX ±	ANGLES ± 1°	MATERIAL	FINISH	DRAWN BY P.SCHIEL DATE 10/14/15 ENG. APPROVAL PROJECT ENG.	TRADE SECRET <small>The information on this drawing is the property of Colorado Time Systems, Inc. and shall not be disclosed, used, or duplicated for any purpose whatsoever without the prior written permission of Colorado Time Systems, Inc. 1551 E. 11th Street, Loveland, Colorado, 80537. This legend shall be marked on any reproduction hereof in whole or in part. Receipt of this document shall be deemed to be an acceptance of the conditions specified herein.</small>	TITLE AUTOMATED RACE TIMER CHALLENGE COURSE - SINGLE DISPLAY OVERVIEW	SIZE D DRAWING NUMBER 2014-010-009 SCALE N.T.S.	REV. C1 SHEET 1 OF 8
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ATTACHMENT DETAILS

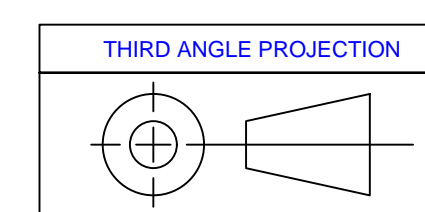


DETAIL A  
SCOREBOARD ATTACHMENT  
2 LOCATIONS



**SIGNAL AND POWER CABLES MUST BE ROUTED IN SEPARATE CONDUITS!**

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ALL DIMS IN INCHES UNLESS OTHERWISE NOTED		DRAWN BY	P.SCHIEL	DATE	10/14/15
INCH [MM] 1 INCH = 25.4MM		ENG. APPROVAL			
TOLERANCES EXCEPT AS NOTED		PROJECT ENG.			
INCHES		MM			
X ± 0.02	X ±				
XX ± 0.02	XX ±				
XXX ± 0.005	XXX ±				
ANGLES ± 1°					
MATERIAL					
FINISH					
DO NOT SCALE THIS DRAWING					
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TITLE		DRAWING NUMBER		REV.	
AUTOMATED RACE TIMER CHALLENGE COURSE - SINGLE SCBD ATTACHMENT DETAILS		2014-010-009		C1	
SCALE		N.T.S.		SHEET 2 OF 8	

8 7 6 5 4 3 2 1

CONDUIT DETAILS

**SIGNAL JUNCTION BOX  
T&B DOUBLE GANG ENCLOSURE  
P/N:FDS222  
SUPPLIED BY OTHERS**

**POWER JUNCTION BOX  
T&B ENCLOSURE  
P/N: AFSS  
SUPPLIED BY OTHERS**

**SIGNAL CABLE EXIT LOCATION**

**POWER CABLE EXIT LOCATION**

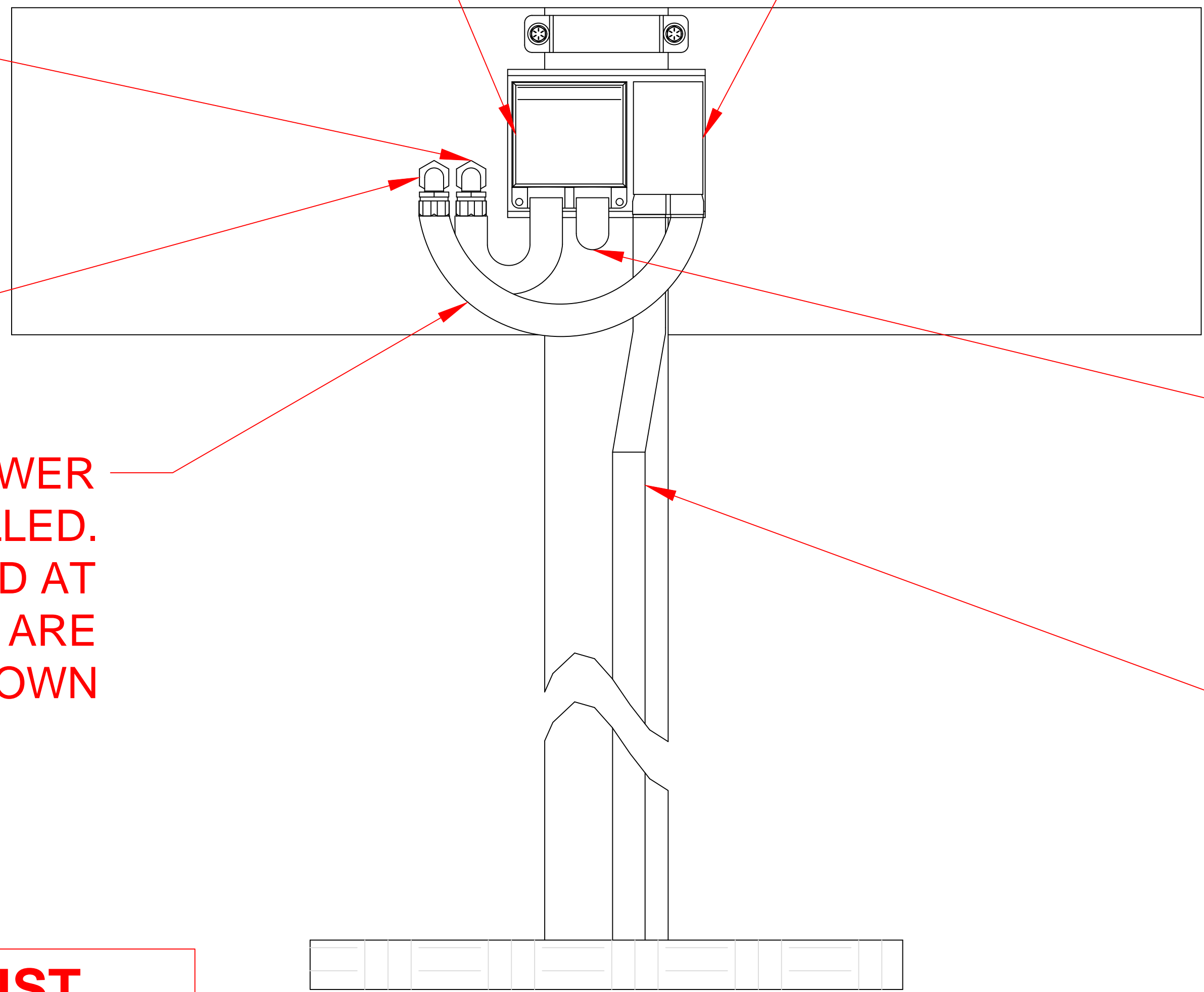
**NOTE: CTS DISPLAY SHIPPED WITH POWER AND SIGNAL CABLES PRE-INSTALLED. CABLES EXIT REAR OF SCOREBOARD AT SHOWN LOCATIONS. ENSURE CABLES ARE INSTALLED WITH A DRIP LOOP AS SHOWN**

**RUN SIGNAL CABLES UP THE INSIDE OF THE SCOREBOARD POLE EXITING IN 1" CONDUIT NEAR CON JUNCTION BOX**

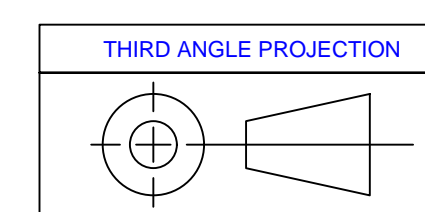
**POWER CONDUIT FROM POWER SOURCE PROVIDED BY OTHERS**

**SIGNAL AND POWER CABLES MUST BE ROUTED IN SEPARATE CONDUITS!**

**DISPLAY REAR VIEW**



- NOTES:**
1. POWER REQUIREMENTS: 125 VAC, 60 Hz, 15 A (MAX LOAD 75 W) (PROVIDED BY OTHERS)
  2. SIGNAL VOLTAGE: 5V 2mA PER BUTTON (PROVIDED BY AUTOMATED RACE TIMER DEVICE)
  3. (2) JUNCTION BOXES REQUIRED- (1) FOR SIGNAL AND (1) FOR POWER
  4. ENSURE JUNCTION BOXES DO NOT INTERFERE WITH SCOREBOARD DISPLAY WHEN INSTALLED AT DESIRED VIEWING ANGLE
  5. THIS SIGN IS INTENDED TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 600 OF THE NATIONAL ELECTRIC CODE AND/OR OTHER APPLICABLE CODES. THIS INCLUDES PROPER GROUNDING AND BONDING OF THE SCOREBOARD
  6. SIGNAL AND POWER CABLES MUST BE ROUTED IN SEPARATE CONDUIT.



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ALL DIMS IN INCHES UNLESS OTHERWISE NOTED INCH [MM] 1 INCH = 25.4MM		DRAWN BY P.SCHIEL	DATE 10/14/15	1251 E. 11th St. Loveland, CO 80537 P: (970) 667-1000 F: (970) 667-5876
TOLERANCES EXCEPT AS NOTED		ENG. APPROVAL	PROJECT ENG.	
INCHES	MM	<small>DO NOT SCALE THIS DRAWING</small> <b>TRADE SECRET</b>		
X ± 0.02	X ±	<small>The information on this drawing is the property of Colorado Time Systems, Inc. 1251 E. 11th Street, Loveland, Colorado, 80537. This legend shall be marked on any reproduction hereof in whole or in part. Receipt of this document shall be deemed to be an acceptance of the conditions specified herein.</small>		
XX ± 0.02	XX ±	<small>SIZE</small> <b>D</b>		
XXX ± 0.005	XXX ±	<small>DRAWING NUMBER</small> <b>2014-010-009</b>		
ANGLES ± 1°		<small>REV.</small> <b>C1</b>		
MATERIAL		<small>SCALE</small> <b>N.T.S.</b>		
FINISH		<small>SHEET</small> <b>3</b> <small>OF</small> <b>8</b>		

# CONDUIT ROUTING DETAILS

**SIGNAL AND POWER CABLES MUST BE ROUTED IN SEPARATE CONDUITS!**

OWNER'S POWER SUPPLY

POWER PULL BOX

3X SIGNAL PULL BOX

POST / BUTTON ASSEMBLY LOCATED AT COURSE FINISH (POST SUPPLIED BY OTHERS)

POST / BUTTON ASSEMBLY LOCATED AT COURSE START (POST SUPPLIED BY OTHERS)

TOP VIEW: BUTTONS, CONDUIT, & PULL BOXES

NDS PRO SERIES 6" ROUND BOX WITH OVERLAPPING COVER P/N: 208BC OR 107BC SUPPLIED BY OTHERS TYP.

8.00" [CONDUIT DEPTH]

CONDUIT Ø1" TYP.

FOOTING DEPTH AND DIAMETER DEPEND ON SITE SOIL CONDITIONS AND LOCAL CODES

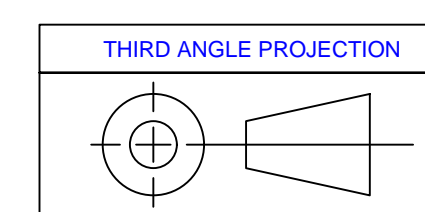
ELEVATION VIEW

ELEVATION END VIEW

0'-0"

**NOTES:**

1. POST, CONDUIT, AND GROUND-LEVEL JUNCTION AND PULL BOXES SUPPLIED BY OTHERS
2. CABLES MUST BE RUN CONTINUOUSLY FROM BUTTONS TO JUNCTION BOX AT TOP OF POLE- MUST NOT BE SPLICED AT ANY POINT IN-BETWEEN
3. FOR EASE OF INSTALLATION USE 18AWG/4C SPRINKLER WIRE FROM FROM PUSH BUTTONS TO WIRING JUNCTION BOX (SUPPLIED BY CTS).

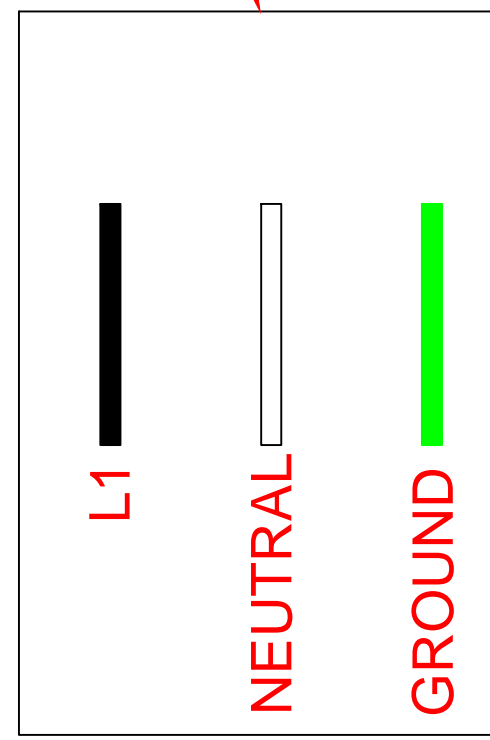


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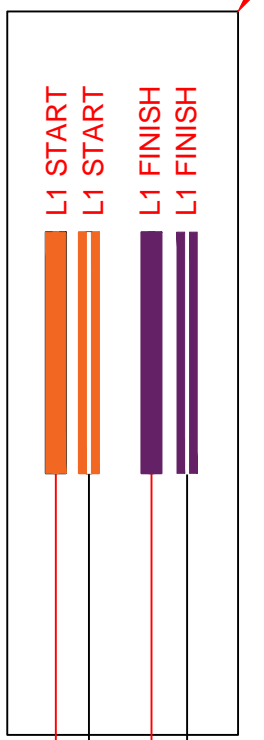
ALL DIMS IN INCHES UNLESS OTHERWISE NOTED INCH [MM] 1 INCH = 25.4MM		DRAWN BY P.SCHIEL	DATE 10/14/15
TOLERANCES EXCEPT AS NOTED		ENG. APPROVAL	
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MATERIAL		SIZE	DRAWING NUMBER
FINISH		D	2014-010-009
		SCALE	REV. C1
		N.T.S.	SHEET 4 OF 8

WIRING DETAILS/SCHEMATICS

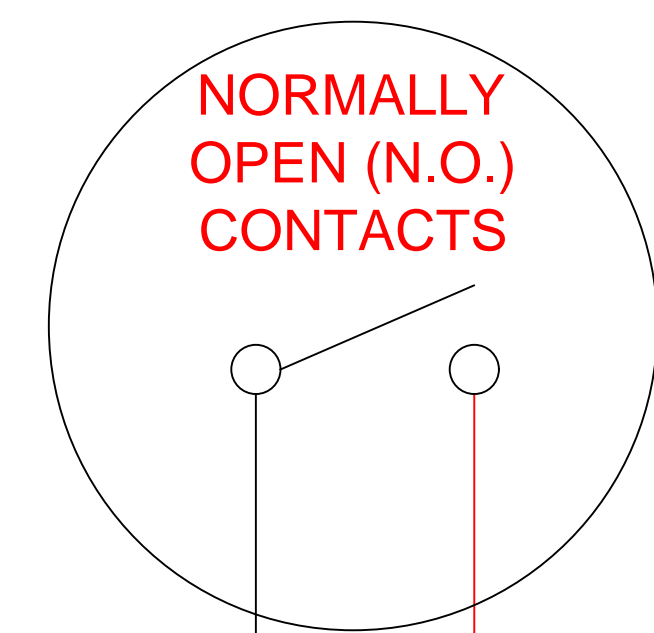
POWER WIRING DETAIL  
FROM RACE TIMER ENCLOSURE  
WHITE > LINE  
BLACK > NEUTRAL  
GREEN > GROUND



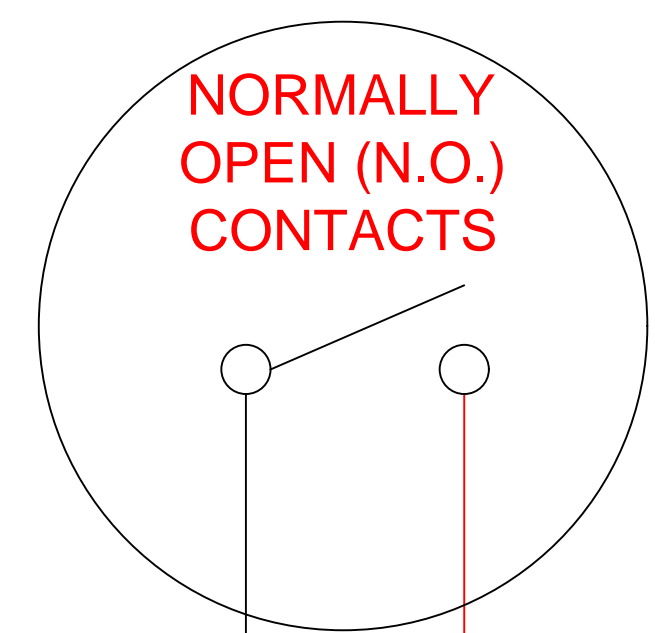
SIGNAL WIRING DETAIL  
FROM RACE TIMER ENCLOSURE  
ORANGE > START BUTTON 1: RED (COM)  
ORANGE/WHITE > START BUTTON 1: WHITE (N.O.)  
PURPLE > FINISH BUTTON 1: RED (COM)  
PURPLE/WHITE > FINISH BUTTON 1: WHITE (N.O.)



FINISH  
BUTTON  
LANE 1



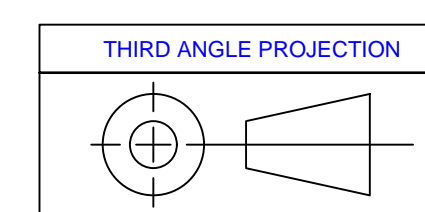
START  
BUTTON  
LANE 1



DO NOT CONNECT TO N. C. TERMINALS

**SIGNAL AND POWER CABLES MUST  
BE ROUTED IN SEPARATE CONDUITS!**

**NOTES:**  
1. **BUTTON CABLES MUST NOT BE SPLICED AT ANY POINT BETWEEN BUTTON LOCATION AND SCOREBOARD JUNCTION BOX !**



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ALL DIMS IN INCHES UNLESS OTHERWISE NOTED INCH [MM] 1 INCH = 25.4MM	DRAWN BY P.SCHIEL ENG. APPROVAL PROJECT ENG.	DATE 10/14/15	<p>1551 E. 11th St. Loveland, CO 80537 P: (970) 667-1000 F: (970) 667-5876</p>								
TOLERANCES EXCEPT AS NOTED	<table border="1"> <tr> <th>INCHES</th> <th>MM</th> </tr> <tr> <td>X ± 0.02</td> <td>X ±</td> </tr> <tr> <td>XX ± 0.02</td> <td>XX ±</td> </tr> <tr> <td>XXX ± 0.005</td> <td></td> </tr> </table>	INCHES		MM	X ± 0.02	X ±	XX ± 0.02	XX ±	XXX ± 0.005		<p>DO NOT SCALE THIS DRAWING</p> <p><b>TRADE SECRET</b></p> <p>The information on this controlled form is to be used in confidence, and shall not be disclosed, used, or duplicated for any purpose whatsoever without the prior written permission of Colorado Time Systems, Inc., 1551 E. 11th Street, Loveland, Colorado, 80537. This legend shall be marked on any reproduction hereof in whole or in part. Receipt of this document shall be deemed to be an acceptance of the conditions specified herein.</p>
INCHES	MM										
X ± 0.02	X ±										
XX ± 0.02	XX ±										
XXX ± 0.005											
<p>ANGLES ± 1°</p> <p>MATERIAL FINISH</p>	<p>SIZE D</p> <p>SCALE N.T.S.</p>	<p>DRAWING NUMBER 2014-010-009</p> <p>SHEET 5 OF 8</p>	<p>REV. C1</p>								


# SCBD WIRING PROCEDURE

PULL SIGNAL CABLE (18 AWG/4C SPRINKLER WIRE SUPPLIED BY CTS - PART NUMBER R-015-727) IN CONDUITS BETWEEN CHALLENGE COURSE TIMER/SCOREBOARD AND START BUTTON AND STOP BUTTON LOCATIONS. THIS SIGNAL CABLE MUST BE RUN IN CONDUIT SEPARATE FROM THE POWER CABLE. CABLE MUST BE RUN CONTINUOUSLY FROM BUTTONS TO JUNCTION BOX AT TOP OF POLE; IT MUST NOT BE SPLICED AT ANY POINT IN BETWEEN.

**AT THE CHALLENGE COURSE TIMER/SCOREBOARD,** STRIP SIGNAL CABLE JACKET 1.5 INCHES, AND CUT OUT GREEN AND BLACK WIRES. CONNECT SIGNAL CABLE TO SIGNAL WIRES FROM SCOREBOARD WITH SUPPLIED WIRE NUTS (CTS PART NUMBER R-025-698), AS PICTURED AT RIGHT AND DETAILED ON PAGE 5.

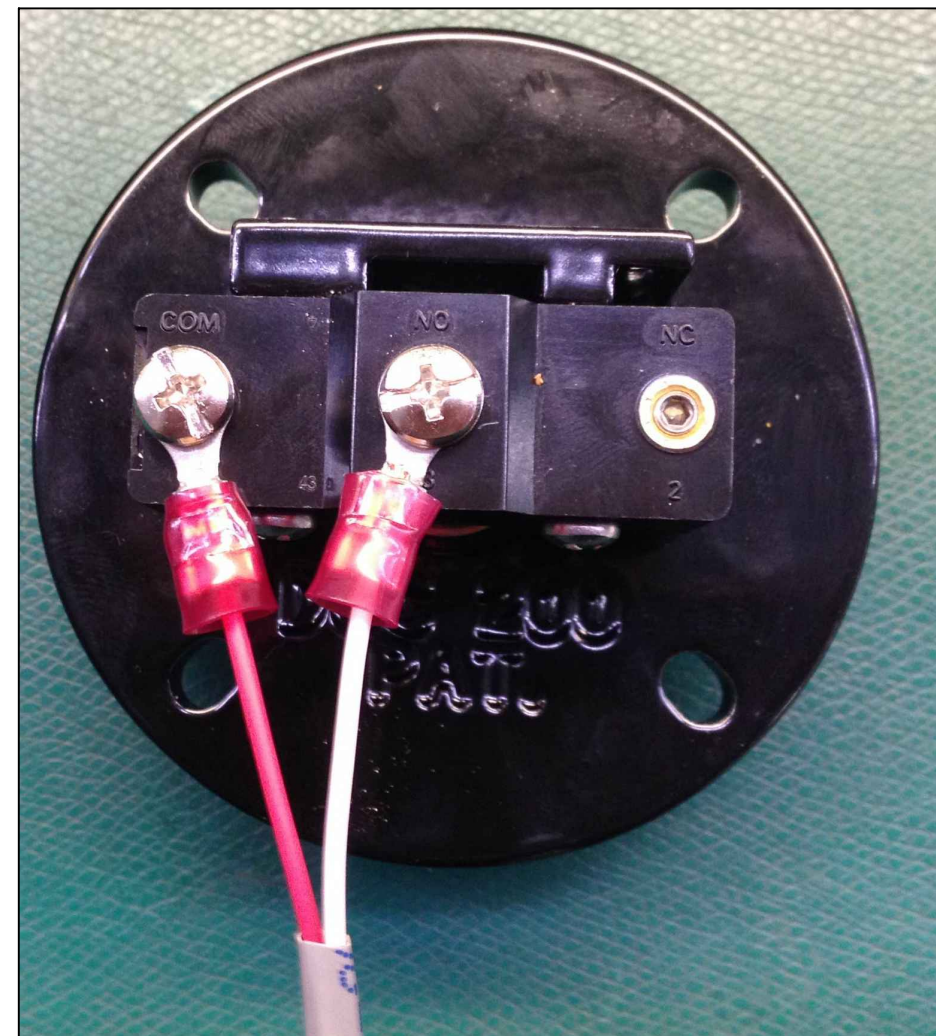


**SIGNAL AND POWER CABLES MUST BE ROUTED IN SEPARATE CONDUITS!**

ALL DIMS IN INCHES UNLESS OTHERWISE NOTED INCH [MM] 1 INCH = 25.4MM		DRAWN BY P.SCHIEL	DATE 10/14/15	 1251 E. 11th St. Loveland, CO 80537 P: (970) 667-1000 F: (970) 667-5876
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INCHES	MM			<b>TRADE SECRET</b> <small>The information and data contained herein is deemed to be confidential and shall not be disclosed, used, or duplicated for any purpose whatsoever without the prior written permission of Colorado Time Systems, Inc. 1251 E. 11th Street, Loveland, Colorado, 80537. This legend shall be marked on any reproduction hereof in whole or in part. Receipt of this document shall be deemed to be an acceptance of the conditions specified herein.</small>
X ± 0.02	X ±			
XX ± 0.02	XX ±			TITLE <b>AUTOMATED RACE TIMER          CHALLENGE COURSE- SINGLE          SCBD WIRING PROCEDURE</b>
XXX ± 0.005	XXX ±			SIZE <b>D</b>
ANGLES ± 1 °				DRAWING NUMBER <b>2014-010-009</b>
MATERIAL				REV. <b>C1</b>
FINISH				SCALE N.T.S.
				SHEET 6 OF 8

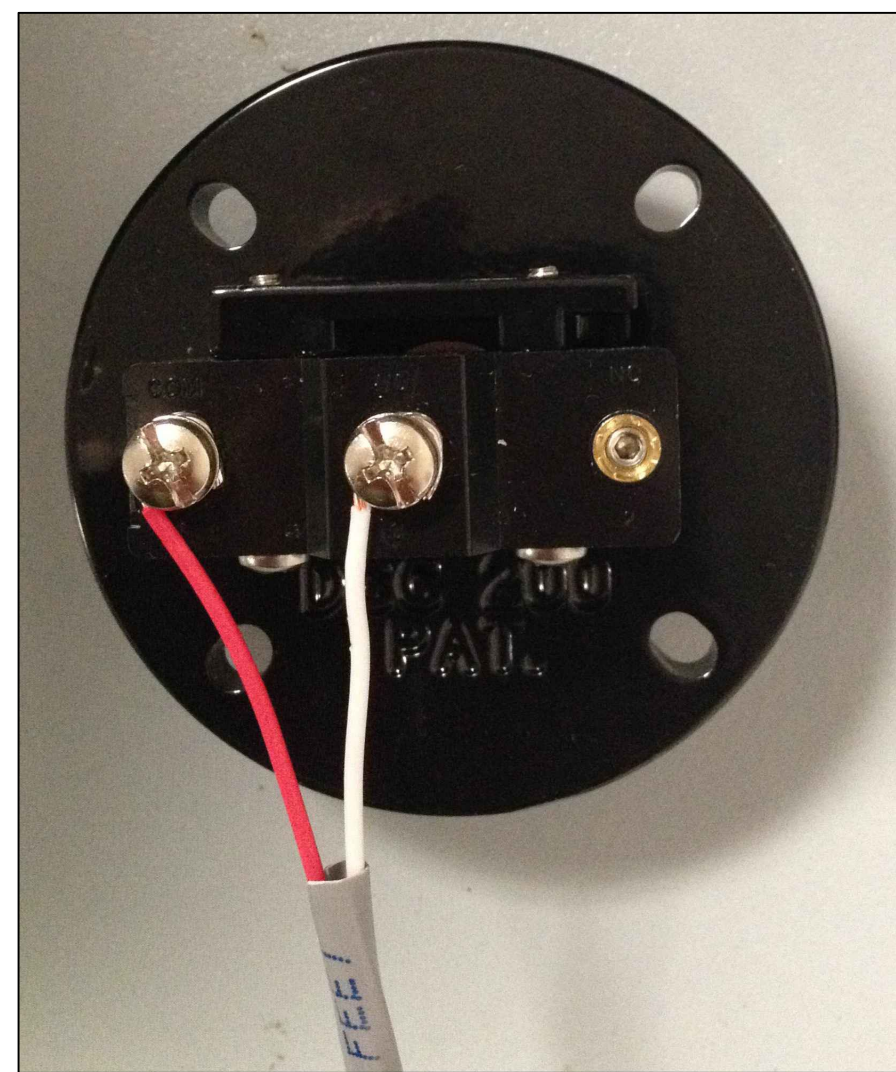
# PUSH BUTTON WIRING PROCEDURE

AT EACH BUTTON, STRIP SIGNAL CABLE JACKET 2 INCHES, AND CUT OUT GREEN AND BLACK WIRES. CHOOSE WIRING METHOD, EITHER RING TERMINAL LUGS OR TINNED WIRES:



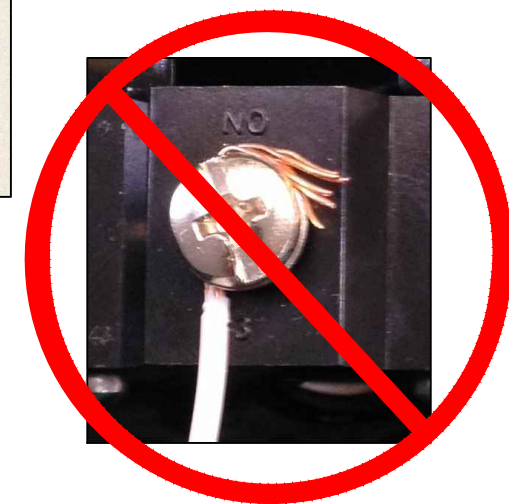
**RING LUG CONNECTION** REQUIRES CRIMPING TOOL, WIRE CUTTER/STRIPPER AND SCREWDRIVER (EITHER PHILIPS OR FLATHEAD)

STRIP RED AND WHITE WIRE 1/4". TWIST WIRE TIGHTLY (OR TIN). INSERT EACH WIRE INTO ONE OF THE SUPPLIED RING LUGS (18-22 AWG #8, CTS PART NUMBER R-025-613) AND CRIMP TIGHTLY. PULL ON WIRE TO ENSURE IT IS SECURE. INSTALL RED WIRE TO COM (1) AND WHITE WIRE TO NO (3). DO NOT USE NC (2).




**TINNED WIRE CONNECTION** REQUIRES SOLDERING IRON AND SOLDER, NEEDLE-NOSE PLIERS, WIRE CUTTER/STRIPPER AND SCREWDRIVER (EITHER PHILIPS OR FLATHEAD)

STRIP RED AND WHITE WIRE 5/8" AND TIN. UNTINNED BARE WIRE IS NOT ACCEPTABLE. USING NEEDLE-NOSE PLIERS, BEND TINNED WIRE. INSTALL RED WIRE TO COM (1) AND WHITE WIRE TO NO (3). DO NOT USE NC (2). TIGHTEN SCREWS SNUGLY.



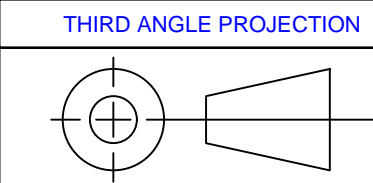
**SIGNAL AND POWER CABLES MUST BE ROUTED IN SEPARATE CONDUITS!**

ALL DIMS IN INCHES UNLESS OTHERWISE NOTED INCH [MM] 1 INCH = 25.4MM		DRAWN BY P.SCHIEL	DATE 10/14/15	 1551 E. 11th St. Loveland, CO 80537 P: (970) 667-1000 F: (970) 667-5876
TOLERANCES EXCEPT AS NOTED		ENG. APPROVAL	PROJECT ENG.	
INCHES	MM	DO NOT SCALE THIS DRAWING <b>TRADE SECRET</b>		TITLE AUTOMATED RACE TIMER PUSH BUTTON WIRING PROCEDURE
X ± 0.02	X ±	<small>The information on this document is the property of Colorado Time Systems, Inc. and shall not be disclosed, used, or duplicated for any purpose whatsoever without the prior written permission of Colorado Time Systems, Inc. 1551 E. 11th Street, Loveland, Colorado, 80537. This legend shall be marked on any reproduction hereof in whole or in part. Receipt of this document shall be deemed to be an acceptance of the conditions specified herein.</small>		REV.
XX ± 0.02	XX ±	MATERIAL FINISH		SIZE D
XXX ± 0.005	XXX ±	ANGLE ± 1°		DRAWING NUMBER 2014-010-009
		SCALE N.T.S.		SHEET 7 OF 8

# SINGLE LANE CHALLENGE COURSE RACE TIMER INSTALLATION TESTING

ACTION	CORRECT RESULT
PUSH & HOLD START BUTTON FOR LANE 1	DISPLAY FOR LANE 1 SHOWS 0s IN TIME AND RED DOT
CONTINUE HOLDING START BUTTON FOR LANE 1	DISPLAY CHANGES TO AMBER DOT, THEN GREEN, TIME STARTS COUNTING UP
RELEASE START BUTTON FOR LANE 1 AFTER GREEN DOT IS DISPLAYED	TIME CONTINUES TO COUNT UP
PUSH FINISH BUTTON FOR LANE 1 WITHIN 60 MINUTES OF START (CAN HAVE ANOTHER PERSON DO THIS)	TIME STOPS FOR LANE 1; FINISH TIME IS DISPLAYED

**SIGNAL AND POWER CABLES MUST BE ROUTED IN SEPARATE CONDUITS!**



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ALL DIMS IN INCHES UNLESS OTHERWISE NOTED INCH [MM] 1 INCH = 25.4MM	DRAWN BY P.SCHIEL DATE 10/14/15 ENG. APPROVAL PROJECT ENG.	1551 E. 11th St. Loveland, CO 80537 P: (970) 667-1000 F: (970) 667-5876
TOLERANCES EXCEPT AS NOTED INCHES MM X ± 0.02 X ± XX ± 0.02 XX ± XXX ± 0.005	DO NOT SCALE THIS DRAWING	1551 E. 11th St. Loveland, CO 80537 P: (970) 667-1000 F: (970) 667-5876
ANGLES ± 1°	TRADE SECRET	1551 E. 11th St. Loveland, CO 80537 P: (970) 667-1000 F: (970) 667-5876
MATERIAL	FINISH	TITLE AUTOMATED RACE TIMER CHALLENGE COURSE- SINGLE TESTING PROCEDURE NEXT ASSEMBLY
SCALE N.T.S.	DRAWING NUMBER 2014-010-009	REV. C1
SHEET 8 OF 8		