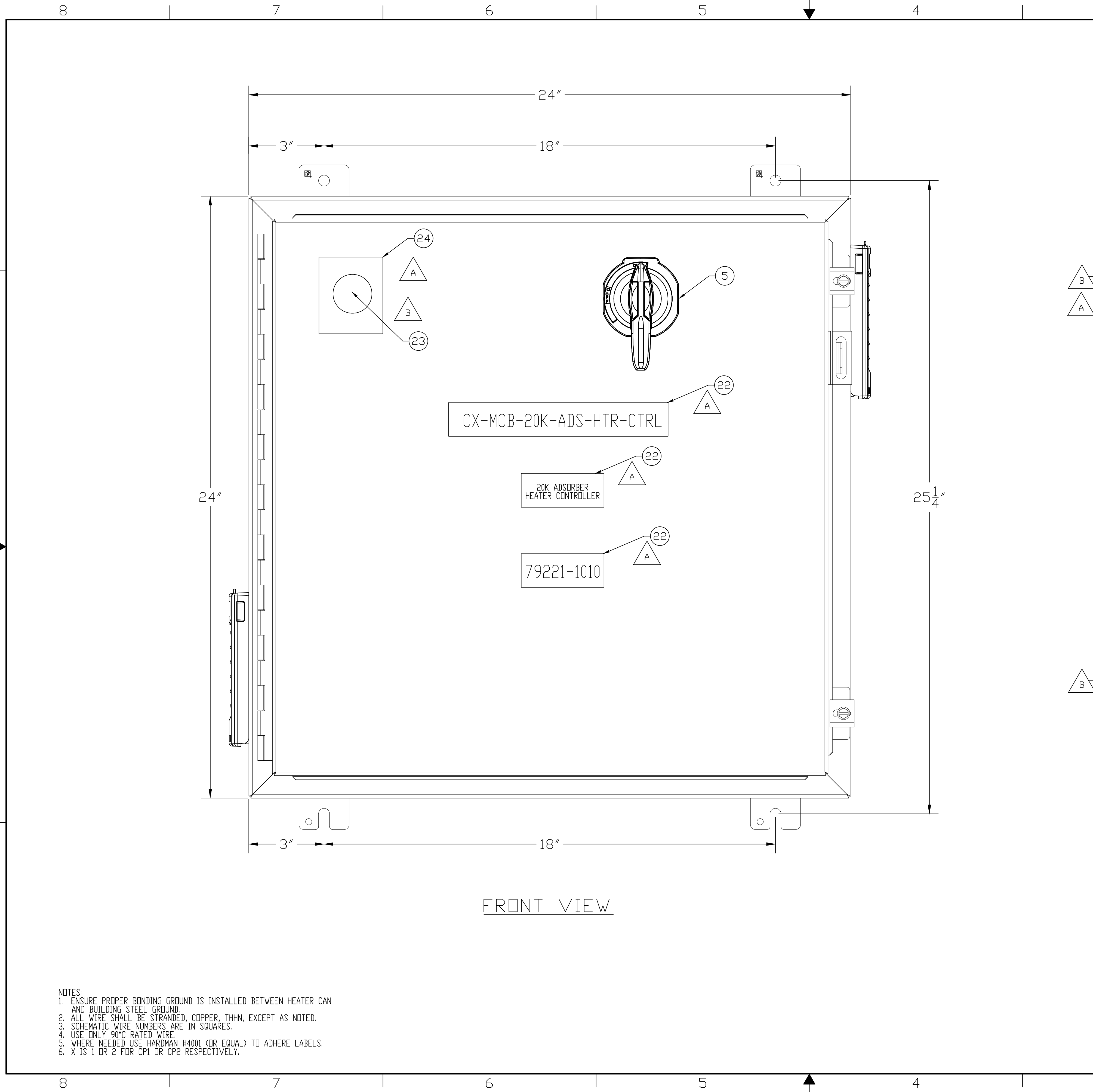


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REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	-	INITIAL SUBMITTAL	TMM 30AUG17	R. NORTON
VAR	A	1. ADDED VOLTAGE INDICATOR TO PARTS LIST AND BODY OF DRAWING. 2. ADDED LABEL TO PARTS LIST AND ENCLOSURE. 3. ADDED NOTE 5, RELOCATED NOTES TO SH 1. 4. ADDED GENERIC LABELS. 5. REMOVED TEXT (SLAC WILL APPLY THE LABEL)	TMM 29SEP17	R. NORTON
SH1 SH1 SH3	B	1. REVISED PARTS IN PART LIST AND DRAWING BODY. 2. ADDED NEW PARTS IN PART LIST AND DRAWING BODY. 3. REVISED SCHEMATIC ENTIRELY.	SS 20DEC17	R. NORTON

QTY REQD	ITEM NO.	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION	NOTES
4	25	WAGO 2004-1401	4 CONDUCTOR THROUGH TERMINAL BLOCK	-	-
1	24	R-3W-L	SAFESIDE VOLTAGE INDICATOR LABEL	-	-
1	23	R-3W	SAFESIDE VOLTAGE INDICATOR	-	-
A/R	22	GENERIC	LABEL, ENGRAVED OR PRINTED	TEXT AS SHOWN	NOTE 5
2	21	WAGO 2002-991	END PLATE FOR FUSE TERMINAL BLOCKS	-	-
6	20	WAGO 249-116	END STOP	-	-
2	19	WAGO 870-568	3 LEVEL TB END BARRIER	-	-
4	18	WAGO 870-551	THREE LEVEL TERMINAL BLOCKS	-	-
1	17	HOFFMAN HF0526414	FAN	-	-
1	16	HOFFMAN HG0500404	EXHAUST GRILLE	-	-
1	15	ALLEN BRADLEY 700-HN100	RELAY SOCKET, DPDT	-	-
1	14	OMRON MKS2PN24	RELAY, DPDT, 24VDC COIL	-	-
4	13	WAGO 2002-1611	2-CONDUCTOR FUSE DISCONNECT TERMINAL BLOCK WITH PIVOTING FUSE HOLDER	WITH 2EA 1/2A, 2EA 1A, 250V FUSES	-
A/R	12	WAGO 210-1142	35MM X 7.5MM CARRIER RAIL	-	-
2	11	BUSS CHCC3DU	FUSE BLOCK 3-POSITION	WITH KTK-R-6A FUSES	-
2	10	WAGO 2004-1491	END & INTERMEDIATE PLATE	-	-
2	9	WAGO 2004-1407	4-CONDUCTOR GROUND TERMINAL BLOCK	-	-
1	8	SAGINAW CONTROL SCE-24P24	ENCLOSURE PANEL, 24"x24"	-	-
1	7	SAGINAW CONTROL SCE-242416LP	ENCLOSURE, 24"x24"x16"	-	-
1	6	ALLEN-BRADLEY 194R-N2	DISCONNECT SWITCH SHAFT	-	-
1	5	ALLEN-BRADLEY 194R-PYT	DISCONNECT SWITCH HANDLE	-	-
1	4	DISCONNECT SWITCH 194R-N30-1753	DISCONNECT SWITCH	-	-
1	3	CUTLER-HAMMER CN35DN3AB	CONTACTOR, 3-POLE, 208V CNT 120V COIL	-	-
1	2	OHIOSEMITRONICS PC5-025EY25	POWER TRANSDUCER WITH INTERNAL CURRENT SENSOR	-	-
1	1	HDR POWER SYSTEMS SHZF3-208-25-NC-01	THREE PHASE, 208VAC, 25A SCR POWER CONTROLLER	-	-

- NOTES:
- ENSURE PROPER BONDING GROUND IS INSTALLED BETWEEN HEATER CAN AND BUILDING STEEL GROUND.
 - ALL WIRE SHALL BE STRANDED, COPPER, THHN, EXCEPT AS NOTED.
 - SCHEMATIC WIRE NUMBERS ARE IN SQUARES.
 - USE ONLY 90°C RATED WIRE.
 - WHERE NEEDED USE HARDMAN #4001 (OR EQUAL) TO ADHERE LABELS.
 - X IS 1 OR 2 FOR CP1 OR CP2 RESPECTIVELY.

DIM & TOL PER ASME Y14.5 2009. UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE: FRACTIONS DECIMAL ANGLES ± 1/8 X ± .01 .XX ± .01 .XXX ± .005

EACH SHEET OF A MULTI-SHEET DRAWING SHALL ALWAYS CARRY THE SAME REVISION LEVEL.

PARTS LIST
 SEE PARTS LIST

FINISH MACHINED SURFACES UNLESS OTHERWISE NOTED. DEBURR & BREAK ALL SHARP EDGES.

THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

DRAWN T.MCCOOL DATE 30AUG17

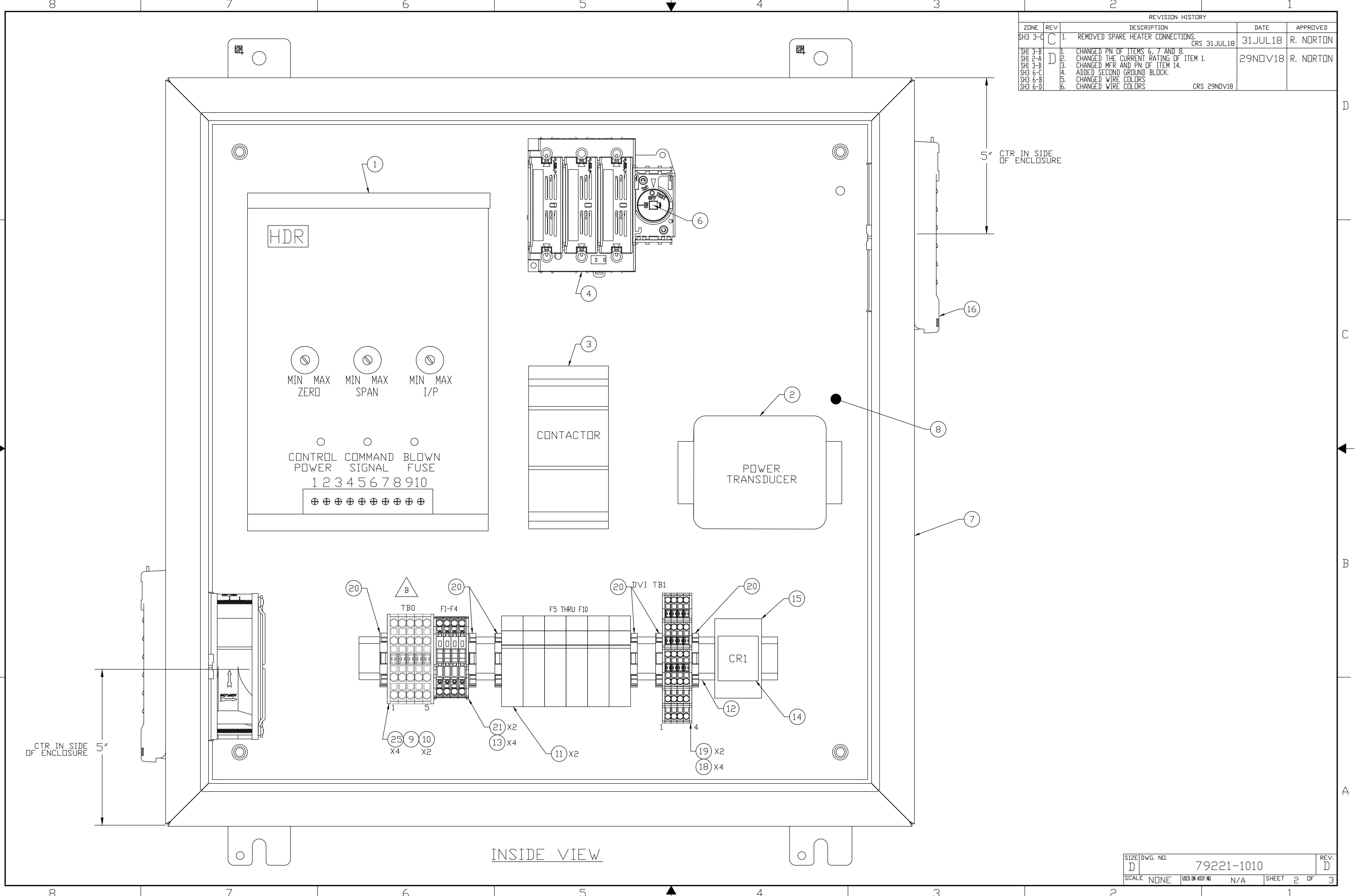
U.S. Department of Energy Office of Science
Jefferson Lab
 Thomas Jefferson National Accelerator Facility
 Operated by Jefferson Science Associates, LLC

LCLS II
 4K COLD BOX SYSTEM
 20K ADSORBER HEATER
 CONTROLLER DETAILS & SCHEMATIC

SIZE DWG. NO. D 79221-1010 REV. D
 SCALE NONE USED IN ASSY NO. N/A SHEET 1 OF 3

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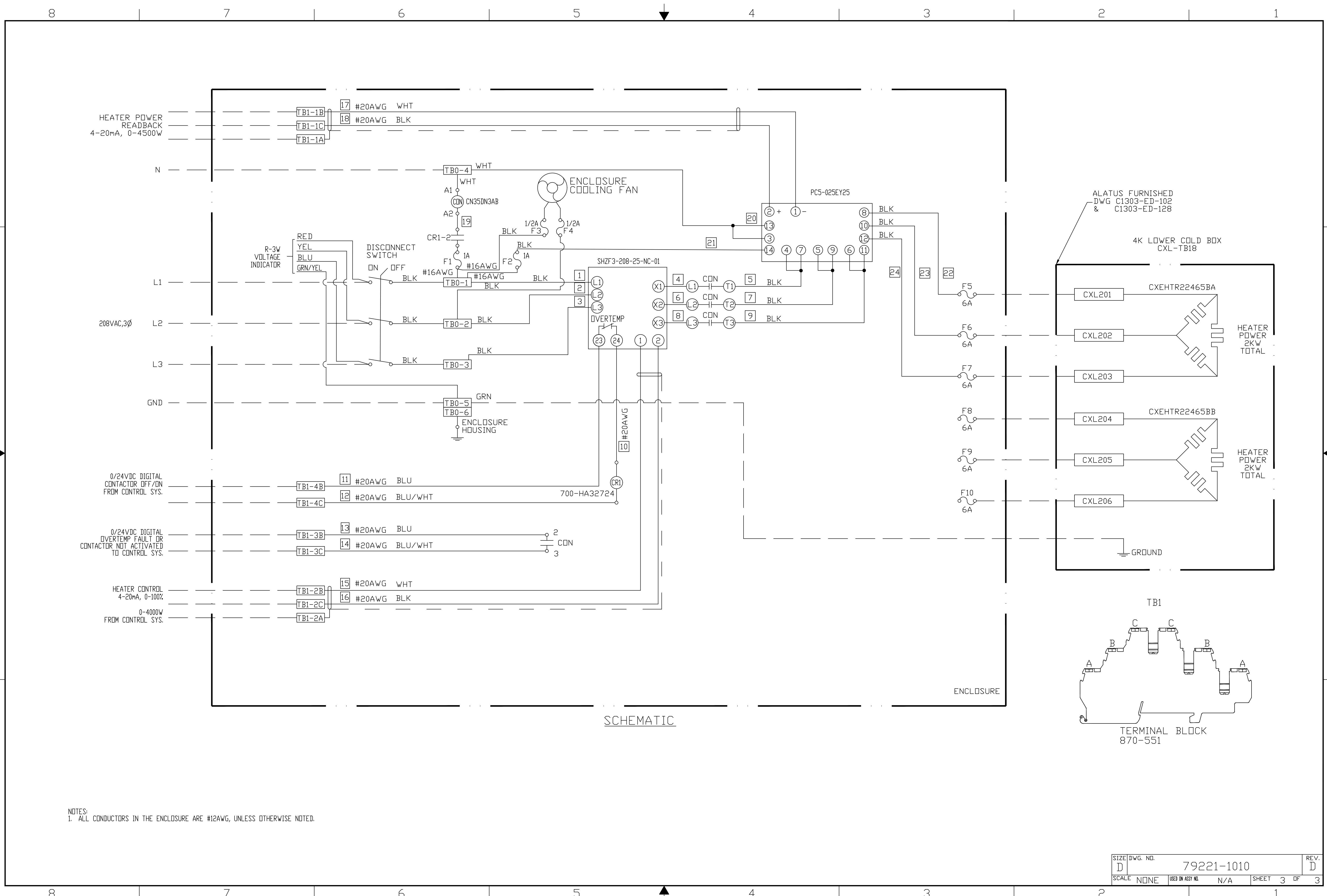
REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
SH3 3-C	C	1. REMOVED SPARE HEATER CONNECTIONS.	31JUL18	R. NORTON
SH1 3-B	D	1. CHANGED PN OF ITEMS 6, 7 AND 8.	29NOV18	R. NORTON
SH1 2-A		2. CHANGED THE CURRENT RATING OF ITEM 1.		
SH3 3-B		3. CHANGED MFR AND PN OF ITEM 14.		
SH3 6-C		4. ADDED SECOND GROUND BLOCK.		
SH3 6-B		5. CHANGED WIRE COLORS		
SH3 6-D		6. CHANGED WIRE COLORS		



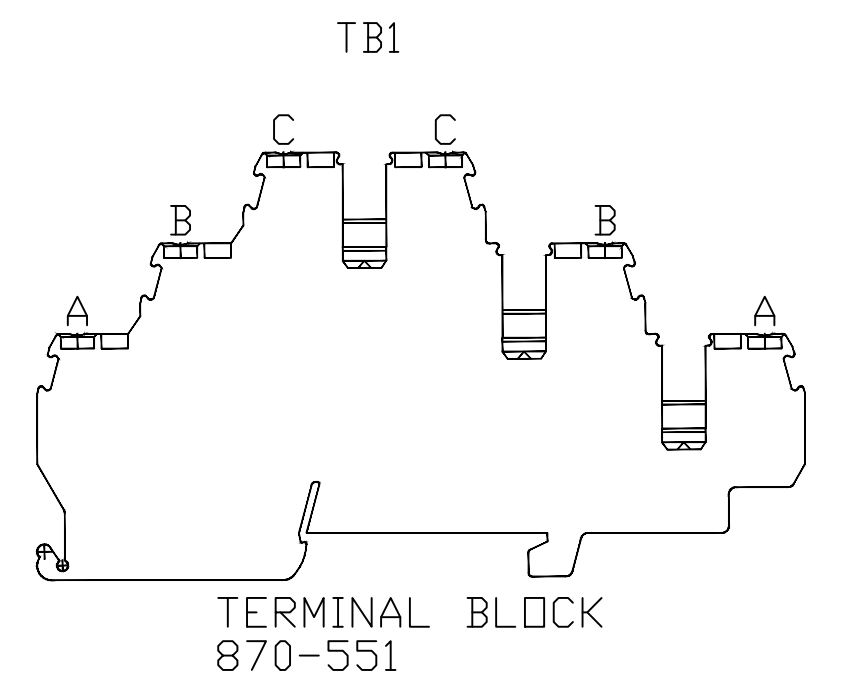
INSIDE VIEW

SIZE	DWG. NO.	REV.
D	79221-1010	D
SCALE	USED ON ASSY NO.	SHEET 2 OF 3
NONE	N/A	

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SCHEMATIC



NOTES:
1. ALL CONDUCTORS IN THE ENCLOSURE ARE #12AWG, UNLESS OTHERWISE NOTED.

SIZE	DWG. NO.	REV.
D	79221-1010	D
SCALE	USED ON ASSY NO.	SHEET
NONE	N/A	3 OF 3