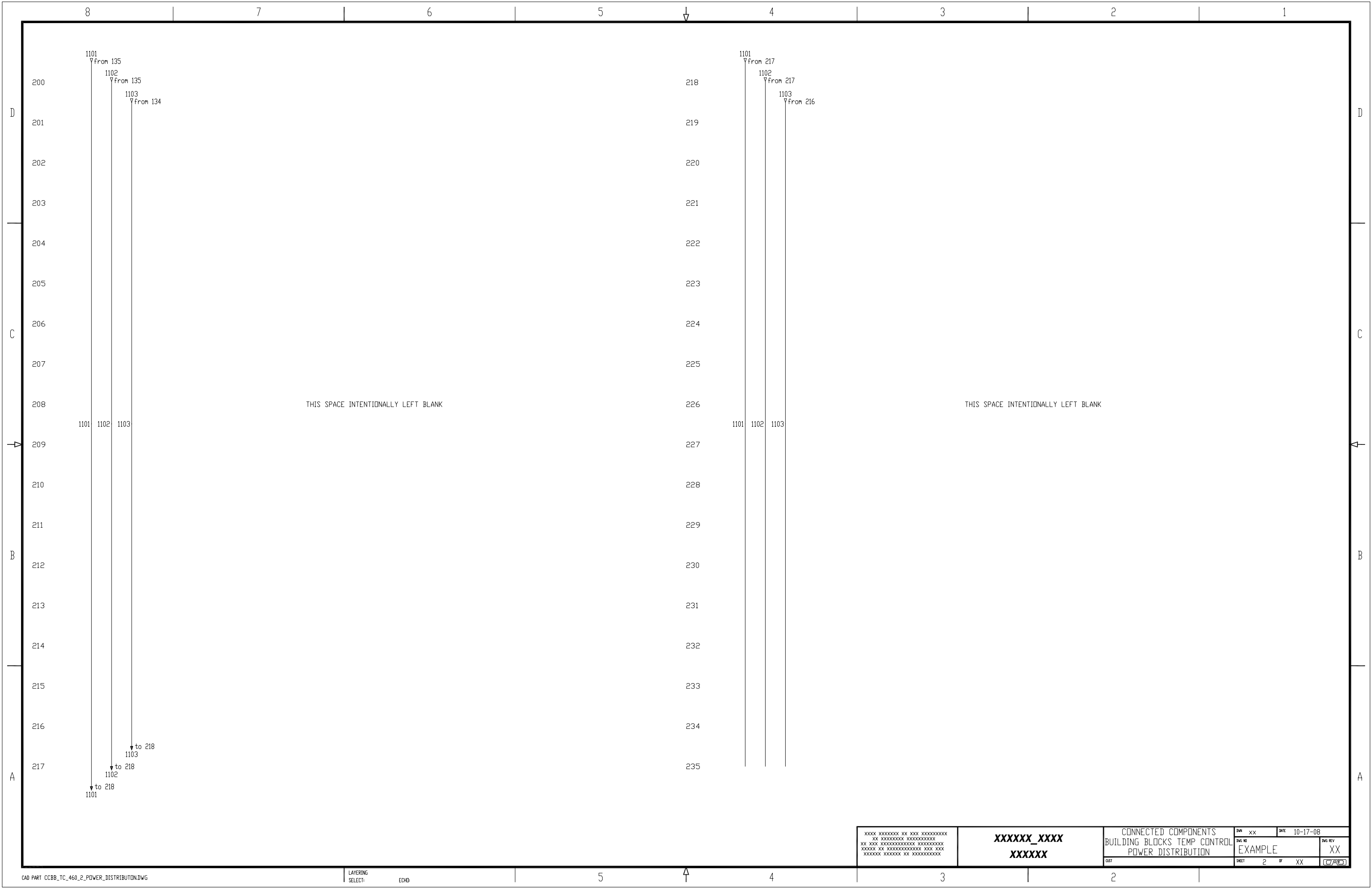
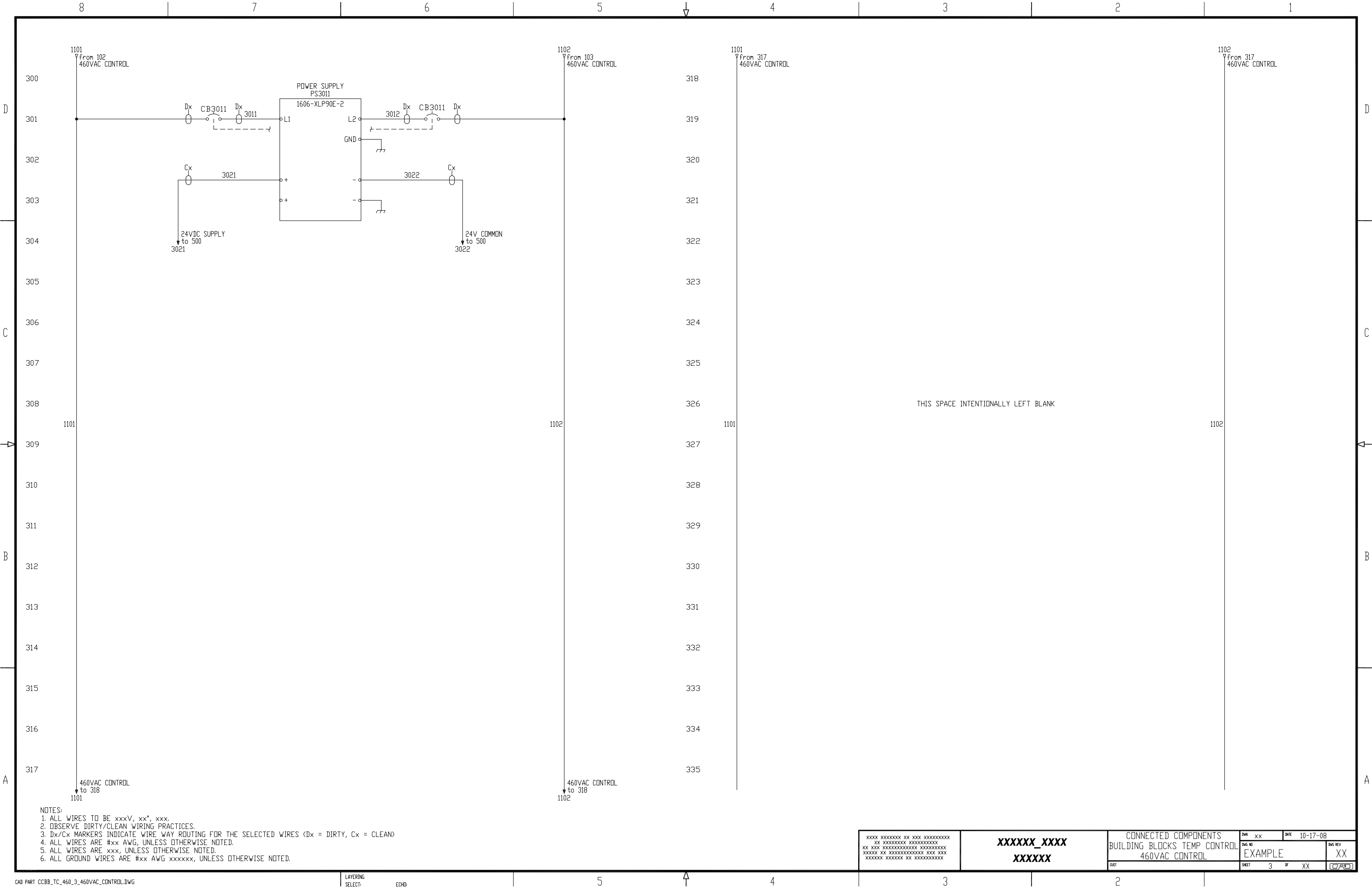


NOTES:  
1. ALL WIRES TO BE xxxV, xx\*, xxx.  
2. OBSERVE DIRTY/CLEAN WIRING PRACTICES.  
3. Dx/Cx MARKERS INDICATE WIRE WAY ROUTING FOR THE SELECTED WIRES (Dx = DIRTY, Cx = CLEAN)  
4. ALL WIRES ARE #xx AWG, UNLESS OTHERWISE NOTED.  
5. ALL WIRES ARE xxx, UNLESS OTHERWISE NOTED.  
6. ALL GROUND WIRES ARE #xx AWG xxxxxx, UNLESS OTHERWISE NOTED.

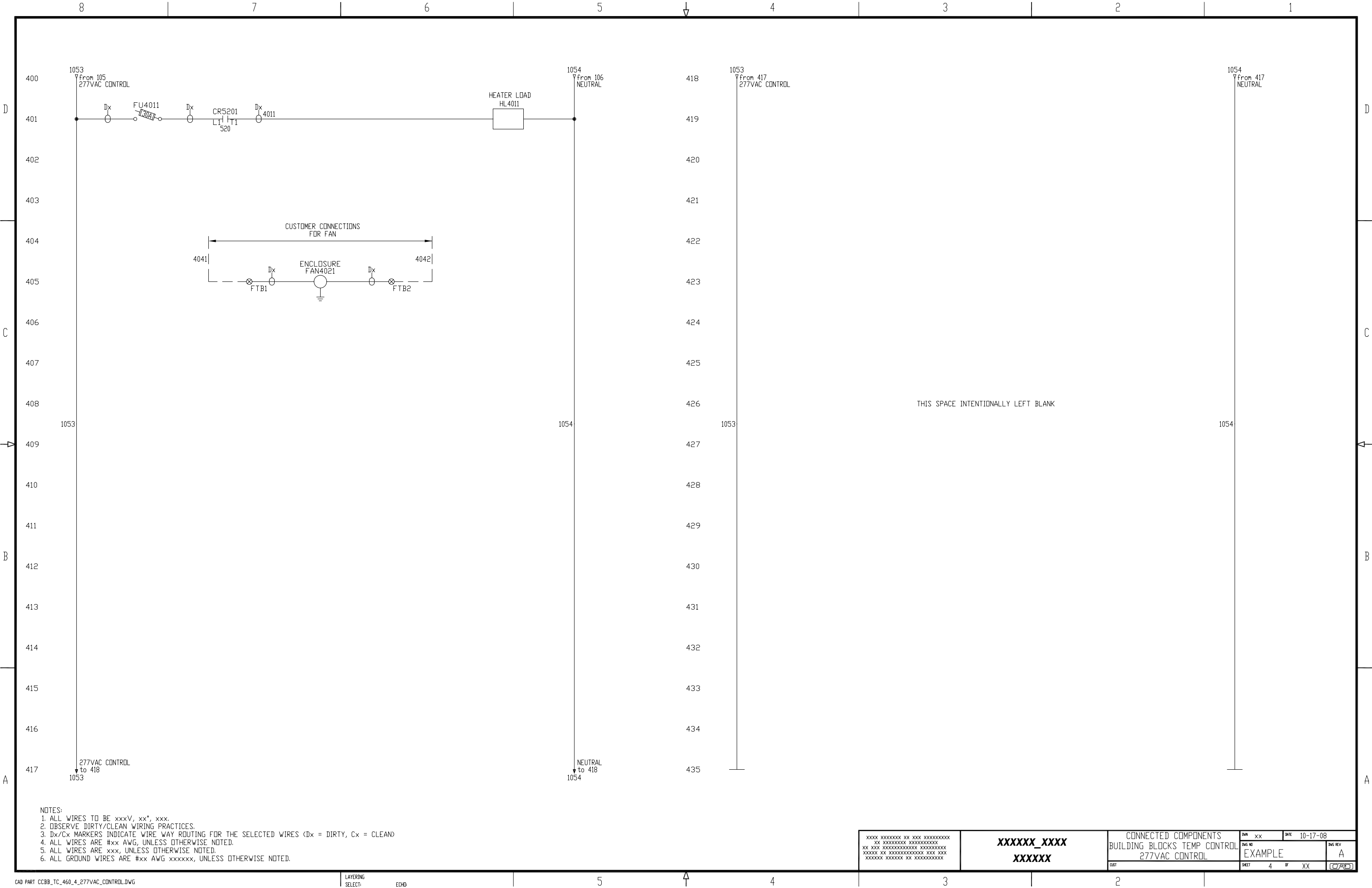
XXXX XXXXXXXX XX XXX XXXXXXXXXX XX XXXXXXXXXX XXXXXXXXXX XX XXX XXXXXXXXXX XXXXXXXXXX XXXXXX XX XXXXXXXXXX XXX XXX XXXXXX XXXXXX XX XXXXXXXXXX	XXXXXX_XXXX XXXXXX	CONNECTED COMPONENTS BUILDING BLOCKS DRIVE POWER DISTRIBUTION		DWG NO EXAMPLE	DWG REV A
		DATE 10-17-08	DWG XX	SHEET 1	OF XX

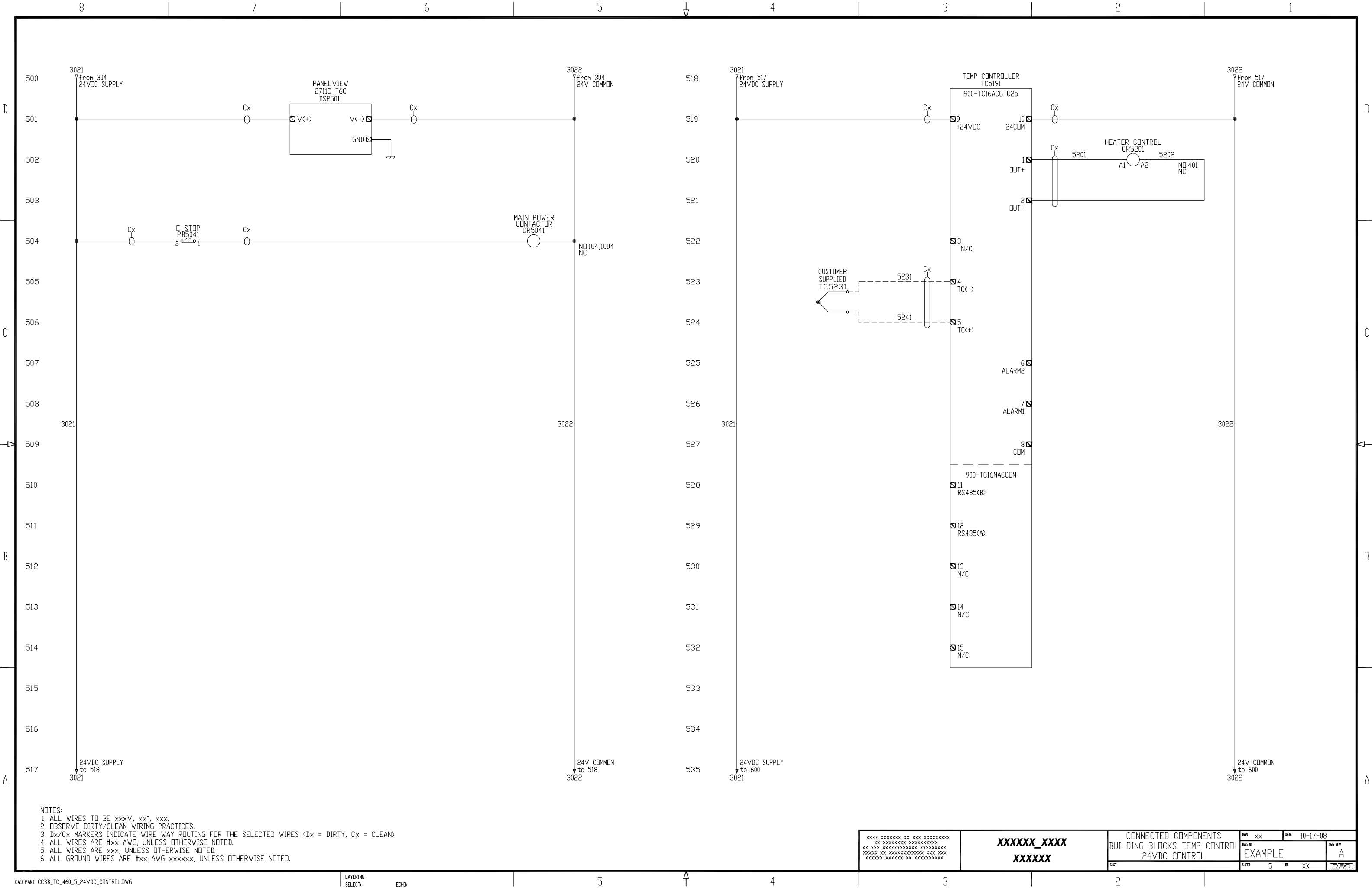




NOTES:  
1. ALL WIRES TO BE xxxV, xx\*, xxx.  
2. OBSERVE DIRTY/CLEAN WIRING PRACTICES.  
3. Dx/Cx MARKERS INDICATE WIRE WAY ROUTING FOR THE SELECTED WIRES (Dx = DIRTY, Cx = CLEAN)  
4. ALL WIRES ARE #xx AWG, UNLESS OTHERWISE NOTED.  
5. ALL WIRES ARE xxx, UNLESS OTHERWISE NOTED.  
6. ALL GROUND WIRES ARE #xx AWG xxxxxx, UNLESS OTHERWISE NOTED.

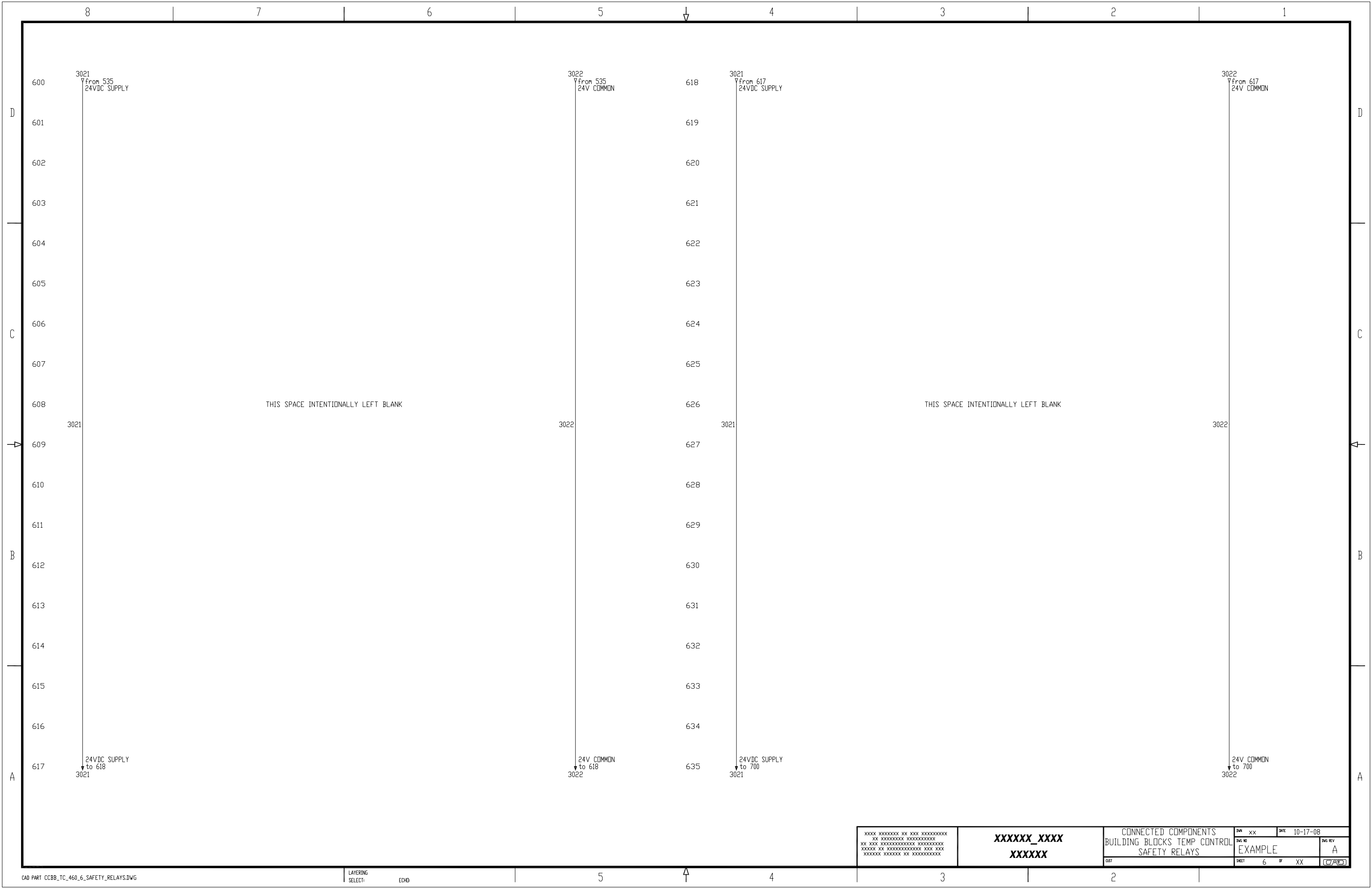
XXXX XXXXXXXX XX XXX XXXXXXXXXXXX XX XXXXXXXXXXXX XXXXXXXXXXXXXXXX XX XXX XXXXXXXXXXXXXXXX XXXXXXXXXXXX XXXXXX XX XXXXXXXXXXXXXXXX XXX XXX XXXXXXXX XXXXXXXX XX XXXXXXXXXXXXXXXX	XXXXXXXX_XXXX XXXXXXX	CONNECTED COMPONENTS BUILDING BLOCKS TEMP CONTROL 460VAC CONTROL		DWG XX	DATE 10-17-08
		DWG REV EXAMPLE		XX	
CHG		SHEET 3	OF XX	C/A/D	





NOTES:  
1. ALL WIRES TO BE xxxV, xx\*, xxx.  
2. OBSERVE DIRTY/CLEAN WIRING PRACTICES.  
3. Dx/Cx MARKERS INDICATE WIRE WAY ROUTING FOR THE SELECTED WIRES (Dx = DIRTY, Cx = CLEAN)  
4. ALL WIRES ARE #xx AWG, UNLESS OTHERWISE NOTED.  
5. ALL WIRES ARE xxx, UNLESS OTHERWISE NOTED.  
6. ALL GROUND WIRES ARE #xx AWG xxxxxx, UNLESS OTHERWISE NOTED.

XXXXX XXXXXXXX XX XXX XXXXXXXXXX XX XXXXXXXXXX XXXXXXXXXX XX XXX XXXXXXXXXX XXXXXXXXXX XXXXXX XX XXXXXXXXXX XXX XXX XXXXXX XXXXXX XX XXXXXXXXXX	XXXXXX_XXXX XXXXXX	CONNECTED COMPONENTS		JWN	XX	DATE	10-17-08
		BUILDING BLOCKS TEMP CONTROL		DWS REV	EXAMPLE		
		24VDC CONTROL		SHEET	5	OF	XX
COST							



XXXX XXXXXXXX XX XXX XXXXXXXXXX  
XX XXXXXXXXXX XXXXXXXXXX  
XX XXX XXXXXXXXXX XXXXXXXXXX  
XXXXXX XX XXXXXXXXXX XXX XXX  
XXXXXX XXXXXX XX XXXXXXXXXX

XXXXXX\_XXXX  
XXXXXX

CONNECTED COMPONENTS  
BUILDING BLOCKS TEMP CONTROL  
SAFETY RELAYS

DWG NO

EXAMPLE

DATE

10-17-08

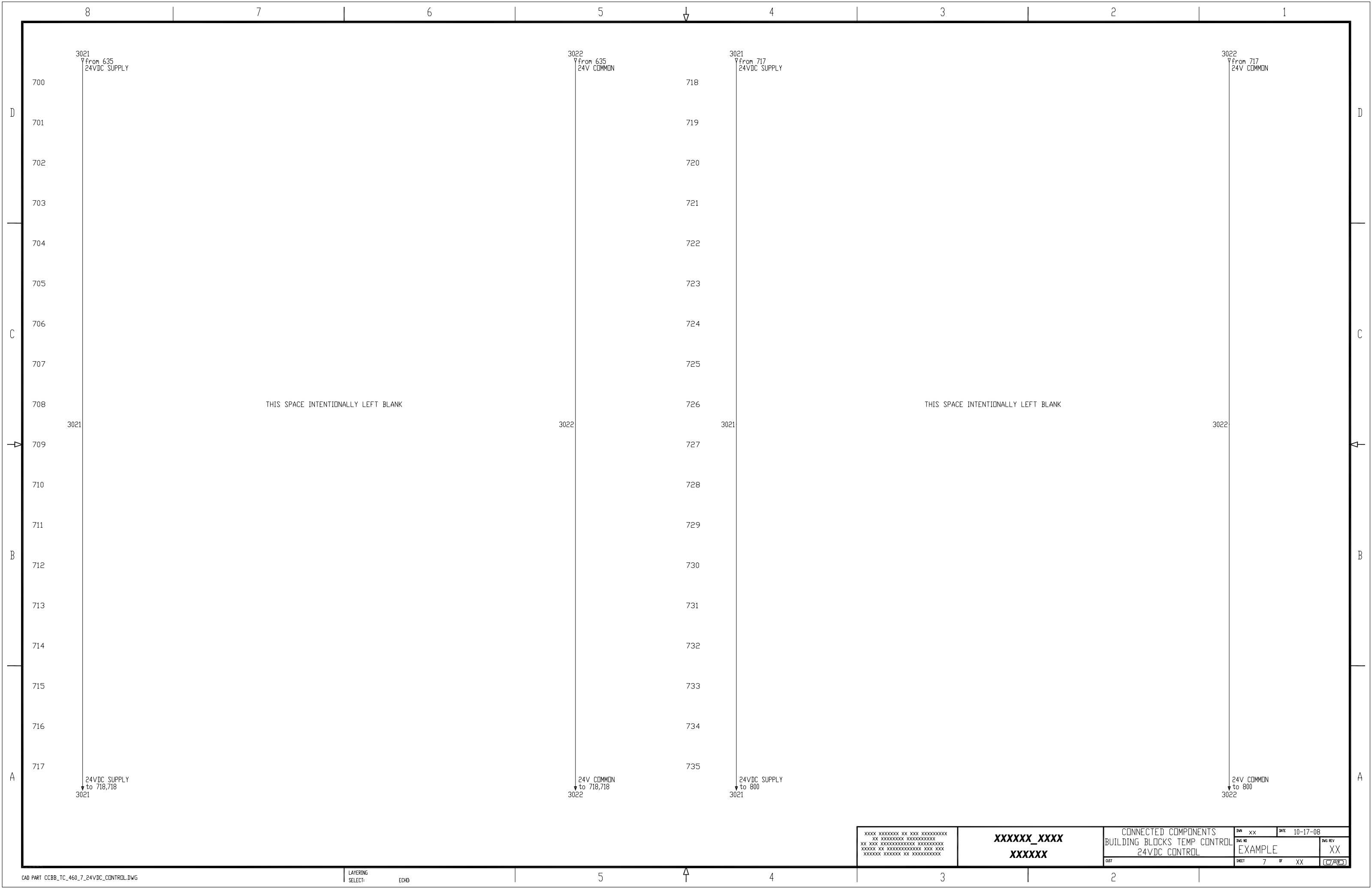
DWG REV

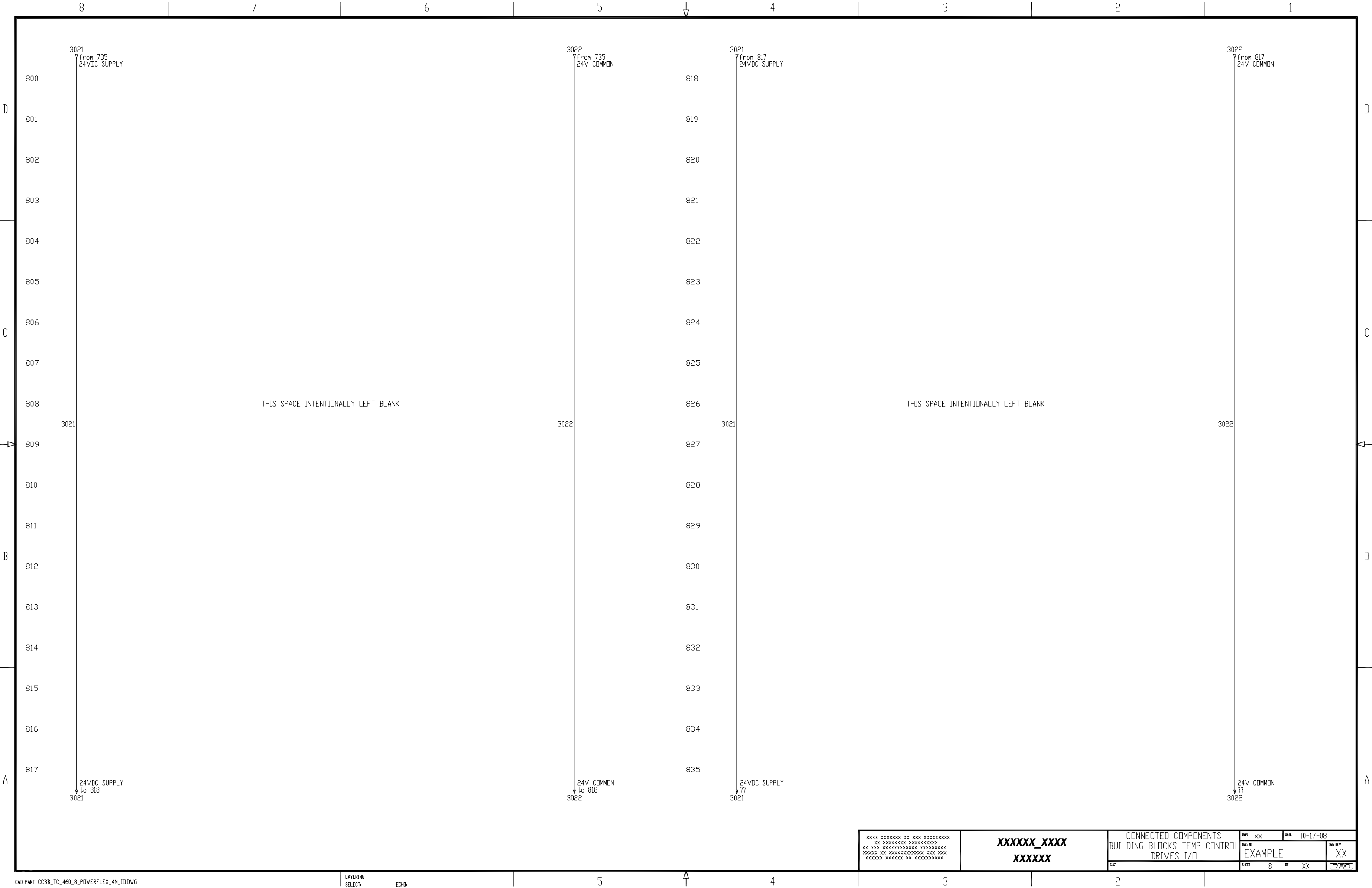
A

SHEET

6 OF XX

CAD





XXXX XXXXXXXX XX XXX XXXXXXXXXX  
XX XXXXXXXXXX XXXXXXXXXX  
XX XXX XXXXXXXXXXXXXXX XXXXXXXXXX  
XXXXXX XX XXXXXXXXXXXXXXX XXX XXX  
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XXXXXX\_XXXX  
XXXXXX

CONNECTED COMPONENTS  
BUILDING BLOCKS TEMP CONTROL  
DRIVES I/O

DWG XX

DWG NO  
EXAMPLE

DWG REV  
XX

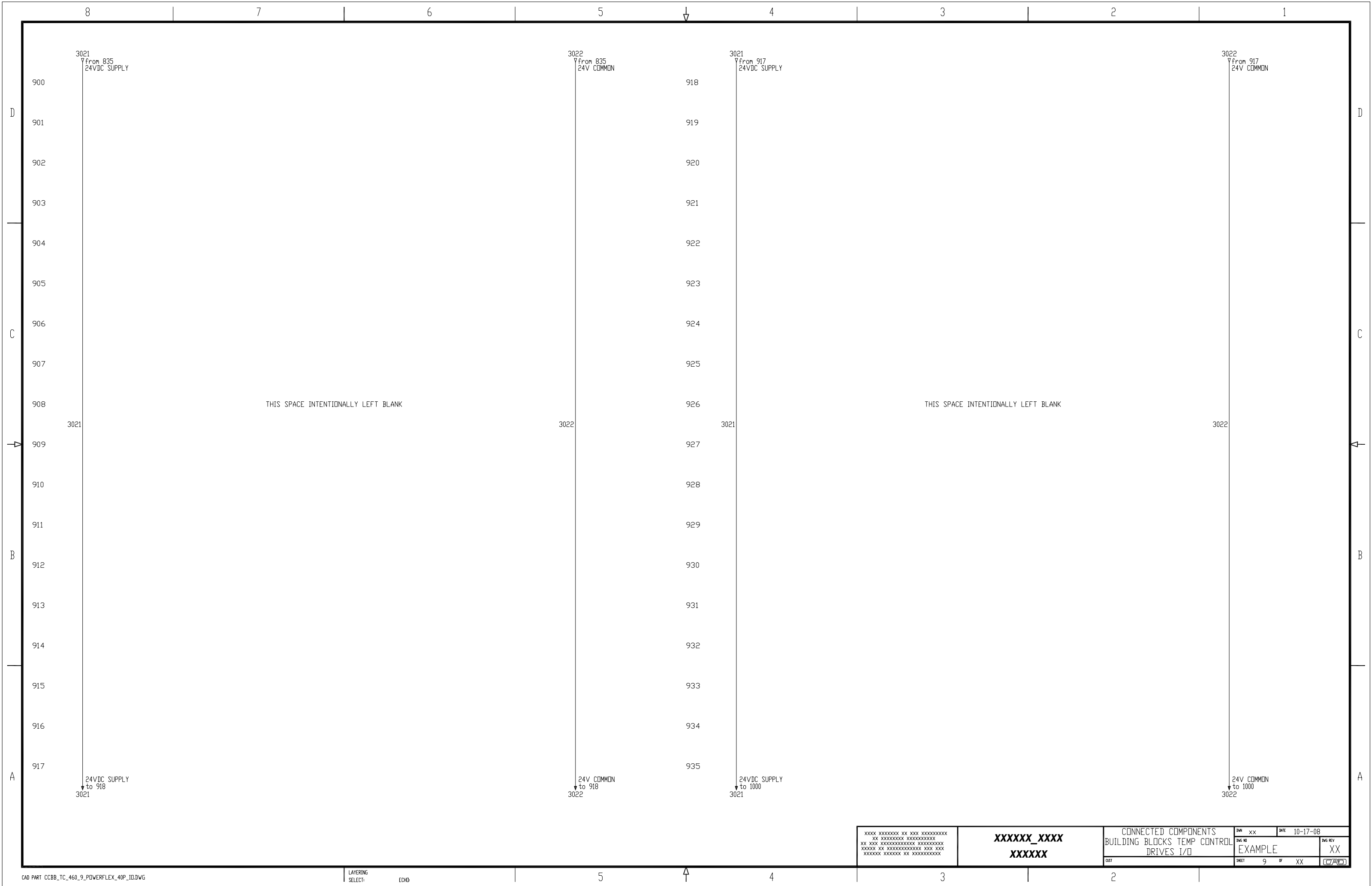
DATE  
10-17-08

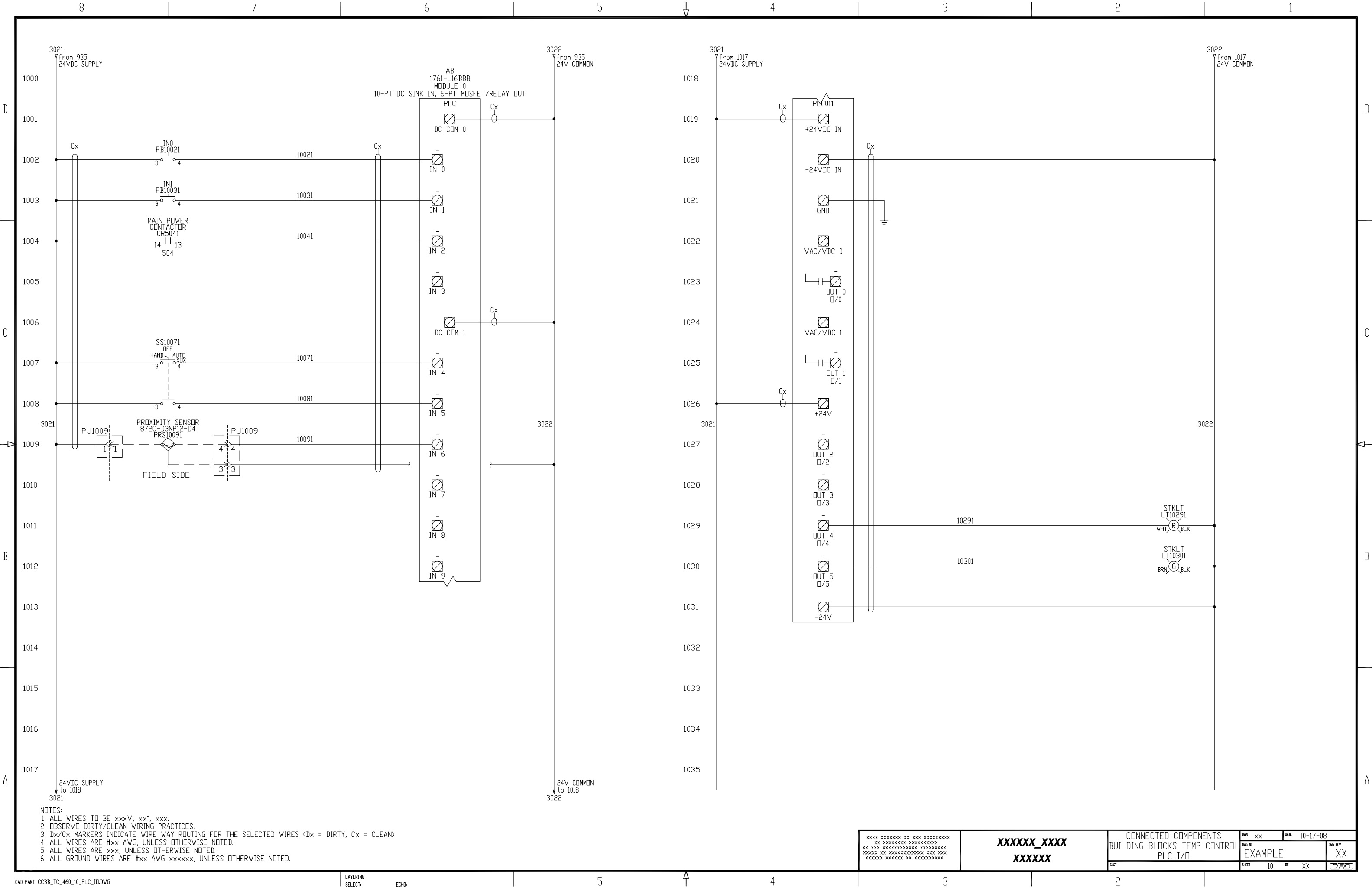
SHEET  
8

OF  
XX

DWG REV  
C/A/D

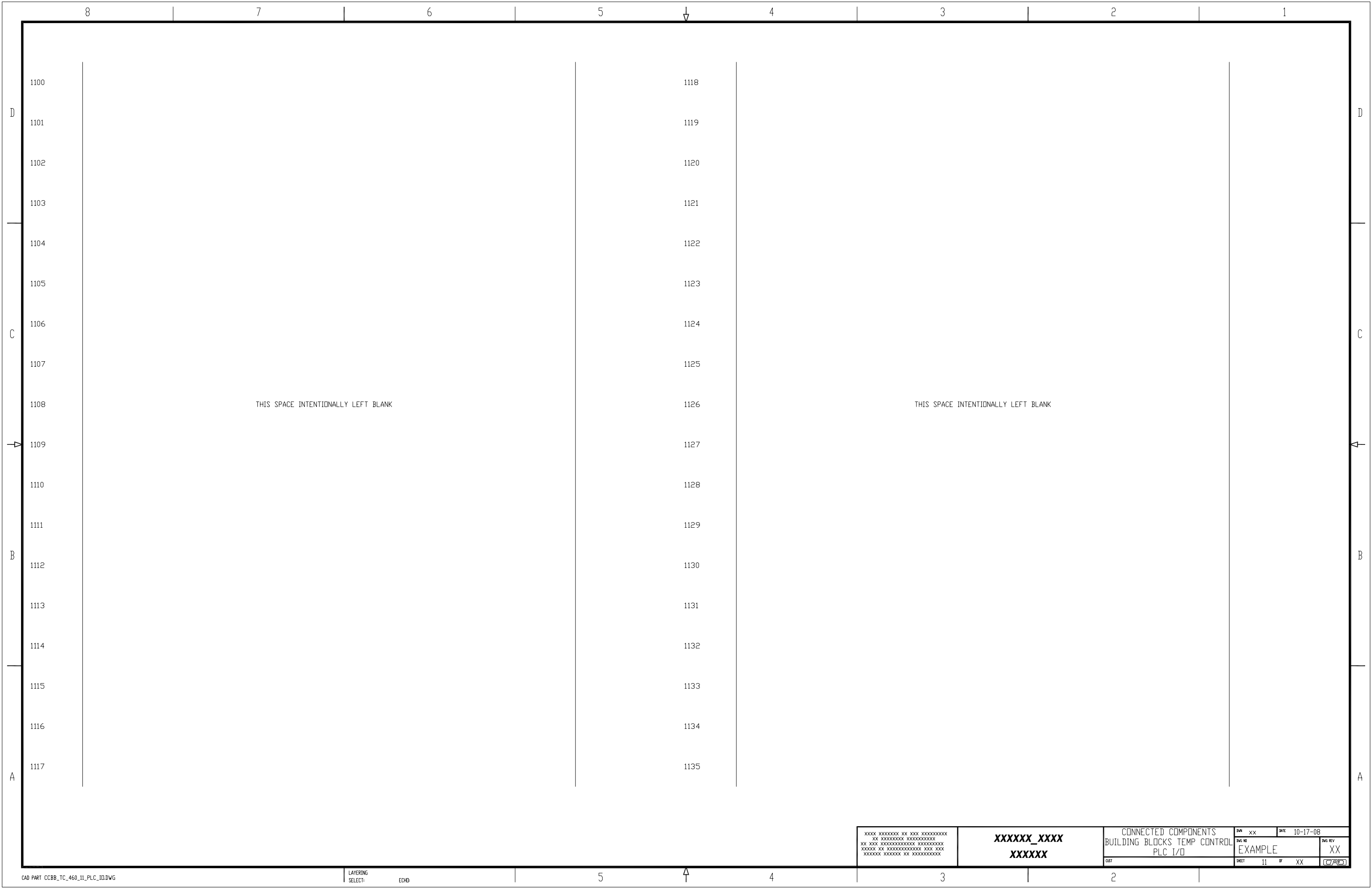






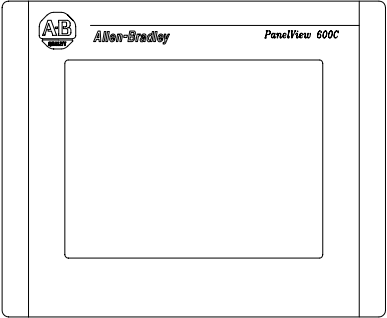
NOTES:  
1. ALL WIRES TO BE xxxV, xx\*, xxx.  
2. OBSERVE DIRTY/CLEAN WIRING PRACTICES.  
3. Dx/Cx MARKERS INDICATE WIRE WAY ROUTING FOR THE SELECTED WIRES (Dx = DIRTY, Cx = CLEAN)  
4. ALL WIRES ARE #xx AWG, UNLESS OTHERWISE NOTED.  
5. ALL WIRES ARE xxx, UNLESS OTHERWISE NOTED.  
6. ALL GROUND WIRES ARE #xx AWG xxxxxx, UNLESS OTHERWISE NOTED.

XXXX XXXXXXXX XX XXX XXXXXXXXXX XX XXXXXXXXXXXXXXXXXXXXXXXX XXXXXX XX XXXXXXXXXXXXXXXX XXX XXX XXXXXXXX XXXXXX XX XXXXXXXXXXXXXXXX	XXXXXX_XXXX XXXXXX	CONNECTED COMPONENTS BUILDING BLOCKS TEMP CONTROL PLC I/O		DWG NO EXAMPLE	DWG REV XX
		DIST	SHEET 10 OF XX	DATE 10-17-08	



XXXX XXXXXXXX XX XXX XXXXXXXXXX XX XXXXXXXXXX XXXXXXXXXX XX XXX XXXXXXXXXX XXXXXXXXXX XXXXXX XX XXXXXXXXXX XXX XXX XXXXXX XXXXXXX XX XXXXXXXXXX	XXXXXX_XXXX XXXXXX	CONNECTED COMPONENTS BUILDING BLOCKS TEMP CONTROL PLC I/O		DWG XX	DATE 10-17-08
				DWG NO EXAMPLE	DWG REV XX
	CUST			SHEET 11	OF XX

HMI PANELVIEW 600C  
2711C-T6C



2711P-CBL-EX04

MICROLOGIX 1100  
1763-L16BBB  
PLC01

ETHERNET PORT

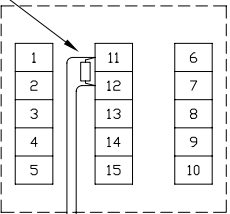
RS232 PORT

PLC01  
1763-NC01

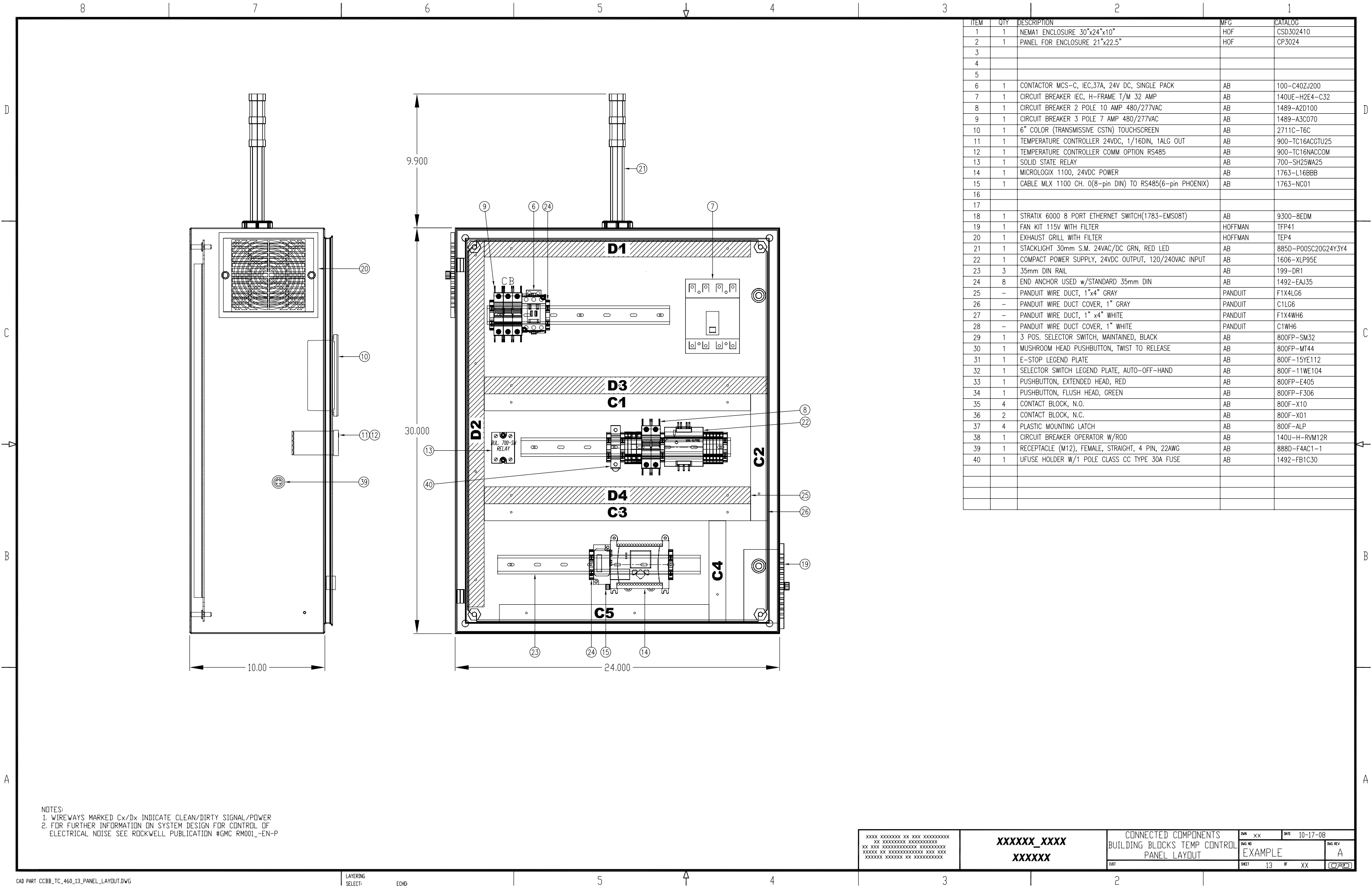
GND	SHLD	COM	B	A	TERM
-----	------	-----	---	---	------

TEMPERATURE  
CONTROLLER  
900-TC16

TERMINATING  
RESISTOR



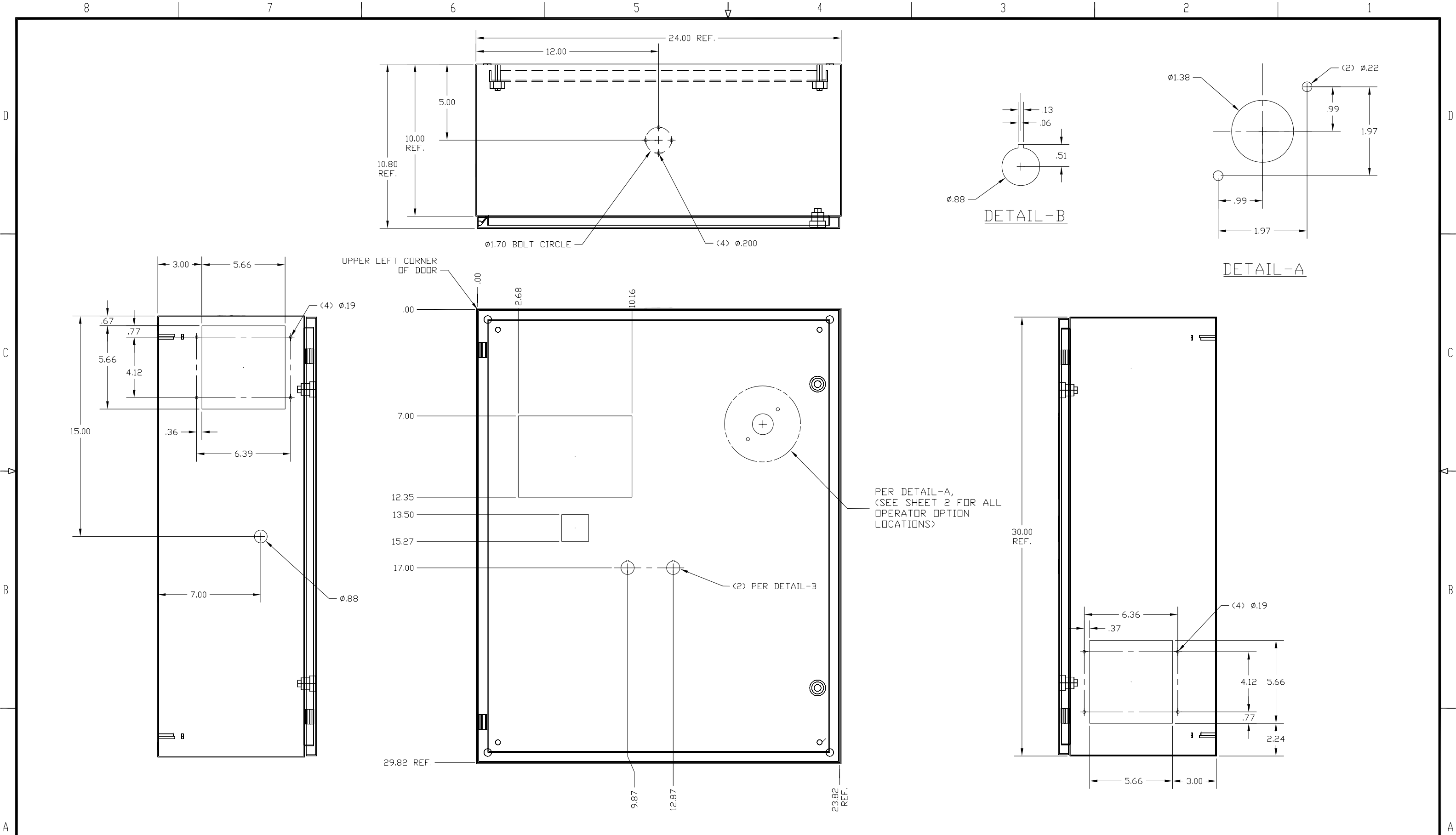
USE BELDEN PART #3105A OR EQUIVALENT RS485 NETWORK CABLE



ITEM	QTY	DESCRIPTION	MFG	CATALOG
1	1	NEMA1 ENCLOSURE 30"x24"x10"	HOF	CSD302410
2	1	PANEL FOR ENCLOSURE 21"x22.5"	HOF	CP3024
3				
4				
5				
6	1	CONTACTOR MCS-C, IEC,37A, 24V DC, SINGLE PACK	AB	100-C40ZJ200
7	1	CIRCUIT BREAKER IEC, H-FRAME T/M 32 AMP	AB	140UE-H2E4-C32
8	1	CIRCUIT BREAKER 2 POLE 10 AMP 480/277VAC	AB	1489-A2D100
9	1	CIRCUIT BREAKER 3 POLE 7 AMP 480/277VAC	AB	1489-A3C070
10	1	6" COLOR (TRANSMISSIVE CSTN) TOUCHSCREEN	AB	2711C-T6C
11	1	TEMPERATURE CONTROLLER 24VDC, 1/16DIN, 1ALG OUT	AB	900-TC16ACGTU25
12	1	TEMPERATURE CONTROLLER COMM OPTION RS485	AB	900-TC16NACCOM
13	1	SOLID STATE RELAY	AB	700-SH25WA25
14	1	MICROLOGIX 1100, 24VDC POWER	AB	1763-L16BBB
15	1	CABLE MLX 1100 CH. 0(8-pin DIN) TO RS485(6-pin PHOENIX)	AB	1763-NC01
16				
17				
18	1	STRATIX 6000 8 PORT ETHERNET SWITCH(1783-EMS08T)	AB	9300-8EDM
19	1	FAN KIT 115V WITH FILTER	HOFFMAN	TFP41
20	1	EXHAUST GRILL WITH FILTER	HOFFMAN	TEP4
21	1	STACKLIGHT 30mm S.M. 24VAC/DC GRN, RED LED	AB	885D-P00SC20G24Y3Y4
22	1	COMPACT POWER SUPPLY, 24VDC OUTPUT, 120/240VAC INPUT	AB	1606-XLP95E
23	3	35mm DIN RAIL	AB	199-DR1
24	8	END ANCHOR USED w/STANDARD 35mm DIN	AB	1492-EAJ35
25	-	PANDUIT WIRE DUCT, 1"x4" GRAY	PANDUIT	F1X4LG6
26	-	PANDUIT WIRE DUCT COVER, 1" GRAY	PANDUIT	C1LG6
27	-	PANDUIT WIRE DUCT, 1" x4" WHITE	PANDUIT	F1X4WH6
28	-	PANDUIT WIRE DUCT COVER, 1" WHITE	PANDUIT	C1WH6
29	1	3 POS. SELECTOR SWITCH, MAINTAINED, BLACK	AB	800FP-SM32
30	1	MUSHROOM HEAD PUSHBUTTON, TWIST TO RELEASE	AB	800FP-MT44
31	1	E-STOP LEGEND PLATE	AB	800F-15YE112
32	1	SELECTOR SWITCH LEGEND PLATE, AUTO-OFF-HAND	AB	800F-11WE104
33	1	PUSHBUTTON, EXTENDED HEAD, RED	AB	800FP-E405
34	1	PUSHBUTTON, FLUSH HEAD, GREEN	AB	800FP-F306
35	4	CONTACT BLOCK, N.O.	AB	800F-X10
36	2	CONTACT BLOCK, N.C.	AB	800F-X01
37	4	PLASTIC MOUNTING LATCH	AB	800F-ALP
38	1	CIRCUIT BREAKER OPERATOR W/ROD	AB	140U-H-RVM12R
39	1	RECEPTACLE (M12), FEMALE, STRAIGHT, 4 PIN, 22AWG	AB	888D-F4AC1-1
40	1	UFUSE HOLDER W/1 POLE CLASS CC TYPE 30A FUSE	AB	1492-FB1C30

NOTES:  
1. WIREWAYS MARKED Cx/Dx INDICATE CLEAN/DIRTY SIGNAL/POWER  
2. FOR FURTHER INFORMATION ON SYSTEM DESIGN FOR CONTROL OF ELECTRICAL NOISE SEE ROCKWELL PUBLICATION #GMC RM001\_-EN-P

XXXX XXXXXXXX XX XXX XXXXXXXXXXXX XX XXXXXXXXXXXX XXXXXXXXXXXXXXXX XX XXX XXXXXXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXX XX XXXXXXXXXXXXXXXX XXX XXX XXXXXXXX XXXXXXXX XX XXXXXXXXXXXXXXXX	XXXXXX_XXXX XXXXXX	CONNECTED COMPONENTS BUILDING BLOCKS TEMP CONTROL PANEL LAYOUT	DWG XX DATE 10-17-08	DWG REV A
DIST	SHEET 13	OF XX		



DOOR MODIFICATION

-01	1	HOFFMAN PART CSD302410	ANSI 61 GRAY
PART NO.	CHG. CHAR.	MATERIAL	SURFACE TREATMENT

CAD PART CCBB\_TC\_460\_14\_ENCLOSURE\_DOOR\_LAYOUT.DWG

LAYERING SELECT:

ECHO:

XXXX XXXXXXXX XX XXX XXXXXXXX  
XX XXXXXXXX XXXXXXXX  
XX XXX XXXXXXXX XXXXXXXX  
XXXXXX XX XXXXXXXX XXX XXX  
XXXXXX XXXXXXXX XX XXXXXXXX

XXXXXX\_XXXX  
XXXXXX

CONNECTED COMPONENTS  
BUILDING BLOCKS TEMP CONTROL  
ENCLOSURE DOOR LAYOUT

DWG NO

EXAMPLE

SHEET

14

OF

XX

DATE

10-17-08

DWG REV

XX

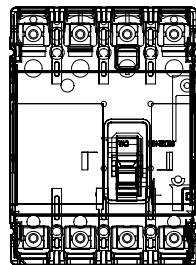
DATE

10-17-08

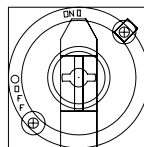
DWG REV

XX

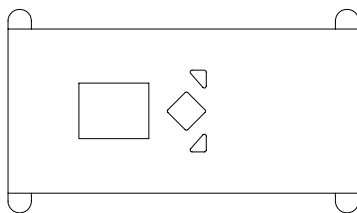
## ADDITIONAL PARTS LIST



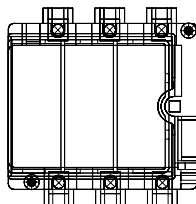
⑤① 'F' FRAME CIRCUIT BREAKER



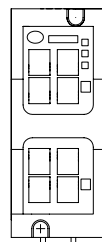
⑤0 ROTARY VARIABLE  
DEPTH MECHANISM



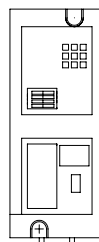
⑤4 MICROLOGIX 1400



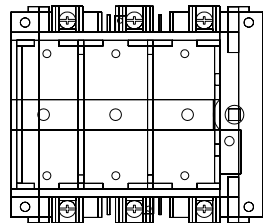
⑤2 30A FUSED DISCONNECT



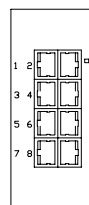
⑤⑤ ETHERNET SWITCH



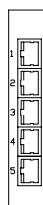
(56) REMOTE ACCESS  
ETHERNET SWITCH



⑤③ 60A FUSED DISCONNECT



⑤⑦ ETHERNET SWITCH



⑤⑧ ETHERNET SWITCH

ITEM	DESCRIPTION	MFG	CATALOG
50	ROTARY VARIABLE DEPTH MECHANISM	AB	140U-RVM12R
51	"F" FRAME CIRCUIT BREAKER	AB	140UE-H2EA-C32
52	30A FUSED DISCONNECT	AB	194R-C30-1753
53	60A FUSED DISCONNECT	AB	194R-D32/D63-1753
54	MICROLOGIX 1400, 24VDC, DIGITAL I/O, ANALOG I/O, ETHERNET	AB	1766-L32BXBA
55	STRATIX 6000, 8 PORT ETHERNET SWITCH	AB	9300-8EDM
56	REMOTE ACCESS ETHERNET SWITCH	AB	9300-RADES
57	STRATIX 6000 SWITCH, ENTRY-LEVEL MANAGED, 8-PORT	AB	1783-EMS08T
58	STRATIX 2000 SWITCH, UNMANAGED, 5-COPPER PORTS	AB	1783-US05T