

# Rockwell Automation

## Global Manufacturing Solutions

CAT2 Safety Drawings List			
FILENAME	DESCRIPTION	SHEET	FILEDATE
00_CAT2_Title_Sheet	TITLE SHEET	00	3/4/2010
01_CAT2_Kinetix_Drive_w_Bipolar_Outputs	KINETIX 6000 DRIVES	01	3/4/2010
02_CAT2_PowerFlex_Drive_w_Bipolar_Outputs	POWERFLEX DRIVES	02	3/4/2010
03_CAT2_Standard_Drive_w_Bipolar_Outputs	STANDARD DRIVE	03	3/4/2010
04_CAT2_GLX_120VAC_Power	GUARDLOGIX POWER DISTRIBUTION	04	3/4/2010
04_CAT2_CMGLX_120VAC_Power	COMPACT GUARDLOGIX POWER DISTRIBUTION	04	3/4/2010
04_CAT2_SG600_CMLX_120VAC_Power	SMARTGUARD 600 w/COMPACT LOGIX POWER DISTRIBUTION	04	12/17/2010
06_CAT2_Light_Curtain_SensaGuard	LIGHT CURTAIN/SENSAGUARD	06	3/4/2010
07_CAT2_1791DS_IB16	1791DS-IB16	07	3/4/2010
08_CAT2_1791DS_IB8XDBV4	1791DS-IB8XDBV4	08	3/4/2010
09_CAT2_1791DS_IB8XDB8	1791DS-IB8XDB8	09	3/4/2010
10_CAT2_1791DS_IB12	1791DS-IB12	10	3/4/2010
11_CAT2_1791DS_IB4XQW4	1791DS-IB4XQW4	11	3/4/2010
12_CAT2_1791ES_IB16	1791ES-IB16	12	3/4/2010
13_CAT2_1791ES_IB8XDBV4	1791ES-IB8XDBV4	13	3/4/2010
14_CAT2_Kinetix_Axis0_Drive_I_O	KINETIX AXIS0 DRIVE I/O	14	3/4/2010
15_CAT2_Kinetix_Axis1_Drive_I_O	KINETIX AXIS1 DRIVE I/O	15	3/4/2010
16_CAT2_Kinetix_Axis2_Drive_I_O	KINETIX AXIS2 DRIVE I/O	16	3/4/2010
17_CAT2_PowerFlex_Drive_I_O	POWEFLEX DRIVE I/O	17	3/3/2010
18_CAT2_GLX_Comm_Networks	GUARDLOGIX COMMUNICATIONS NETWORKS	18	3/3/2010
18_CAT2_CMGLX_Comm_Networks	COMPACT GUARDLOGIX COMMUNICATIONS NETWORKS	18	3/3/2010
18_CAT2_SG600_CMLX_Comm_Networks	SMARTGUARD 600 w/COMPACT LOGIX COMMUNICATIONS NETWORKS	18	12/17/2010
19_CAT2_GLX_Digital_Inputs	GUARDLOGIX DIGITAL INPUTS	19	3/3/2010
19_CAT2_CMGLX_Digital_Inputs	COMPACT GUARDLOGIX DIGITAL INPUTS	19	3/4/2010
19_CAT2_SG600_CMLX_Safety_Inputs	SMARTGUARD 600 w/COMPACT LOGIX SAFETY INPUTS	19	12/17/2010
20_CAT2_GLX_Digital_Outputs	GUARDLOGIX DIGITAL OUTPUTS	23	3/3/2010
20_CAT2_CMGLX_Digital_Outputs	COMPACT GUARDLOGIX DIGITAL OUTPUTS	23	3/4/2010
20_CAT2_SG600_CMLX_Safety_Outputs	SMARTGUARD 600 w/COMPACT LOGIX SAFETY OUTPUTS	23	12/17/2010
21_CAT2_Ethernet_Switch	ETHERNET SWITCH	21	12/17/2010
22_CAT2_GLX_Panel_Layout	GUARDLOGIX PANEL LAYOUT	22	3/3/2010
22_CAT2_CMGLX_Panel_Layout	COMPACT GUARDLOGIX PANEL LAYOUT	22	3/3/2010
22_CAT2_SG600_CMLX_Panel_Layout	SMARTGUARD 600 w/COMPACT LOGIX PANEL LAYOUT	22	12/17/2010

### ELECTRICAL REQUIREMENTS FOR THE EQUIPMENT

SUPPLY VOLTAGE: XXXVAC, X PHASE, XXHZ  
TOTAL CONNECTED HP: \_\_\_\_??\_\_\_\_  
TOTAL CONNECTED KVA: \_\_??\_\_\_\_  
TOTAL POWER FACTOR KVAR: \_\_\_\_??\_\_\_\_  
ESTIMATED FULL LOAD AMPS: \_\_\_\_??\_\_\_\_  
RUNNING FULL LOAD AMPS: \_\_\_\_\_??\_  
MAIN FUSE OR BREAKER: \_\_\_\_??\_\_\_\_ AMPS  
PLANT FUSE OR BREAKER: \_\_\_\_\_??\_\_\_\_ AMPS  
SHORT CIRCUIT WITHSTAND RATING: \_\_??\_\_\_\_ AMPS

### UTILITY REQUIREMENTS

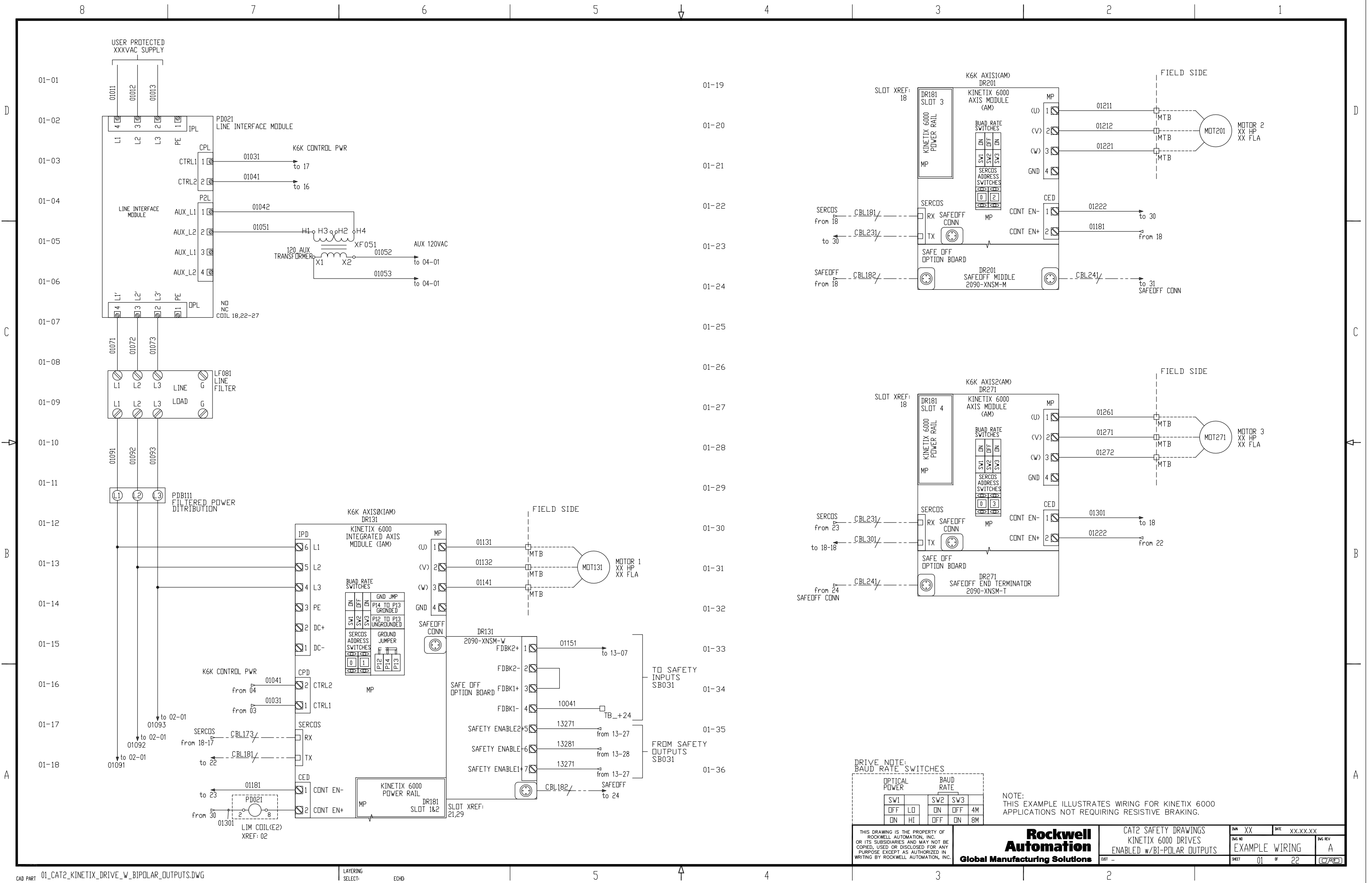
AIR:	80	PSI	??	SCFM
STEAM:	N/A	LBS/HR	??	
WATER:	N/A	GPM	??	
COOLANT:	N/A	PSI	??	GPM
GAS:	N/A	PSI	??	CFM
EXHAUST:	N/A	CFM	??	

### WIRING GUIDELINE

VOLTAGE	COLOR	TYPE	SIZE (Minimum)
XXXVAC	BLACK	MTW inside panel THHN outside panel	#XX AWG
120VAC	RED	MTW inside panel TFFN outside panel	#XX AWG #XX AWG
INTERLOCKS AND WIRING NOT CONTROLLED BY MAIN DISCONNECT	YELLOW	TFFN / THHN	#XX AWG
24VAC	BLUE w/RED TRACER	MTW inside panel TFFN outside panel	#XX AWG
24VDC (+)	BLUE	MTW inside panel TFFN outside panel	#XX AWG
24VDC (-)	WHITE w/BLUE -OR- BLUE w/WHITE TRACER	MTW inside panel TFFN outside panel	#XX AWG
24VDC INTERLOCKS AND WIRING NOT CONTROLLED BY MAIN DISCONNECT	YELLOW w/BLUE TRACER	TFFN / THHN	#XX AWG
GROUND	GREEN or GRN/YEL	MTW inside panel TFFN outside panel	#XX AWG
120VAC NUETRAL	WHITE	MTW inside panel TFFN outside panel	#XX AWG #XX AWG

○ MAIN ENCLOSURE TERMINAL  
△ FIELD J-BOX TERMINAL  
□ FIELD STATION TERMINAL  
INTERNAL WIRING

XXXX XXXXXXXX XX XXX XXXXXXXXXX XX XXXXXXXXXX XXXXXXXXXX XX XXX XXXXXXXXXX XXXXXXXXXX XXXXXX XX XXXXXXXXXX XX XXX XXXXXX XXXXXX XX XXXXXXXXXX	XXXXXX_XXXX XXXXXX	CAT2 SAFETY DRAWINGS DRAWING LIST TITLE SHEET	DWG XXX	DATE 12-20-10
			DWG NO EXAMPLE	DWG REV B
			SHEET 0	OF 22
			CAD	





THIS DRAWING IS THE PROPERTY OF  
ROCKWELL AUTOMATION, INC.  
OR ITS SUBSIDIARIES AND MAY NOT BE  
COPIED, USED OR DISCLOSED FOR ANY  
PURPOSE EXCEPT AS AUTHORIZED IN  
WRITING BY ROCKWELL AUTOMATION, INC.

**Rockwell  
Automation**  
Global Manufacturing Solutions

CAT2 SAFETY DRAWINGS  
POWERFLEX DRIVES  
WITH BIPOLAR OUTPUTS

XX

DATE XX.XX.XX

EXAM

DNG REV

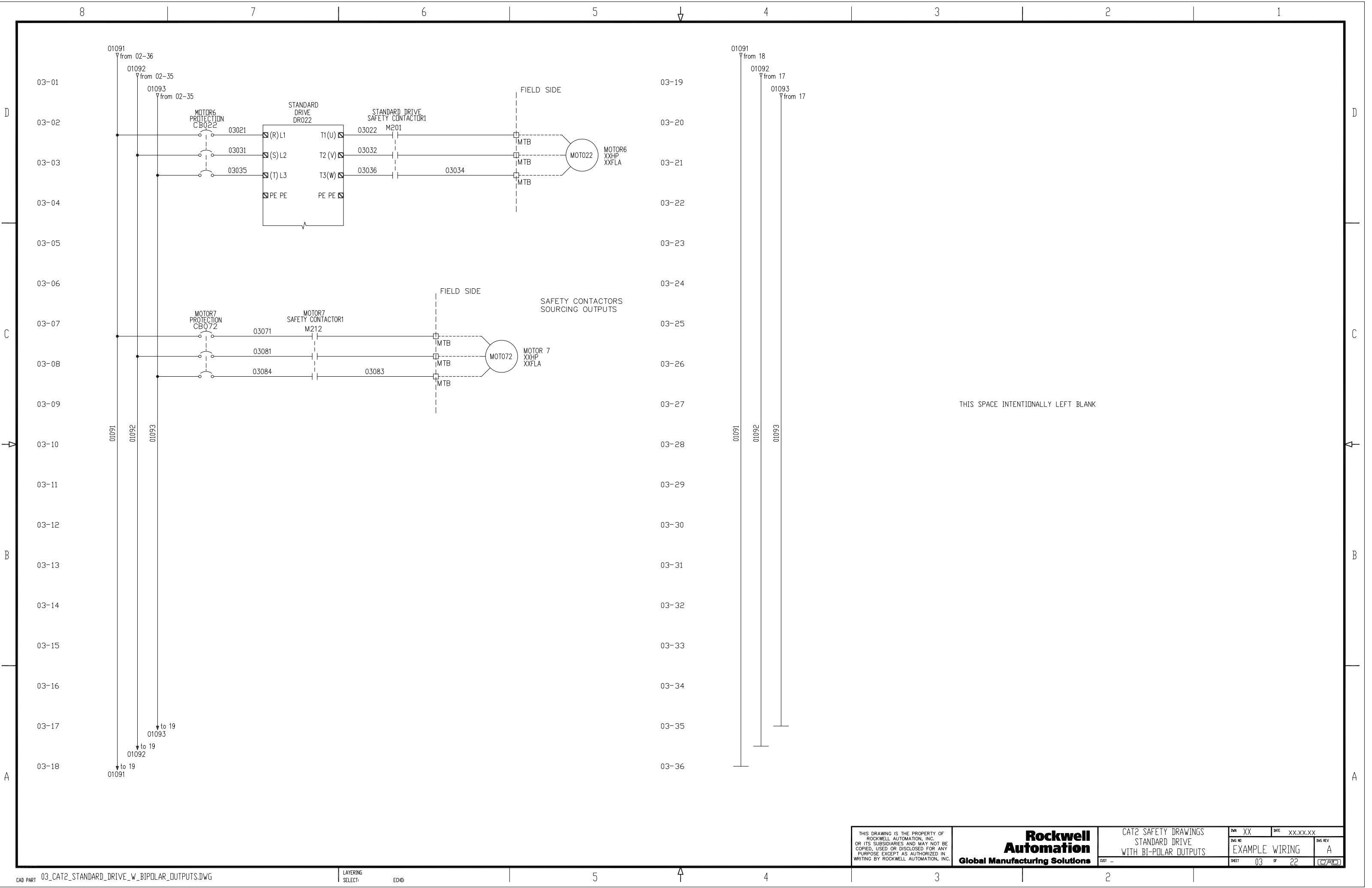
### EXAMPLE WIRING

7

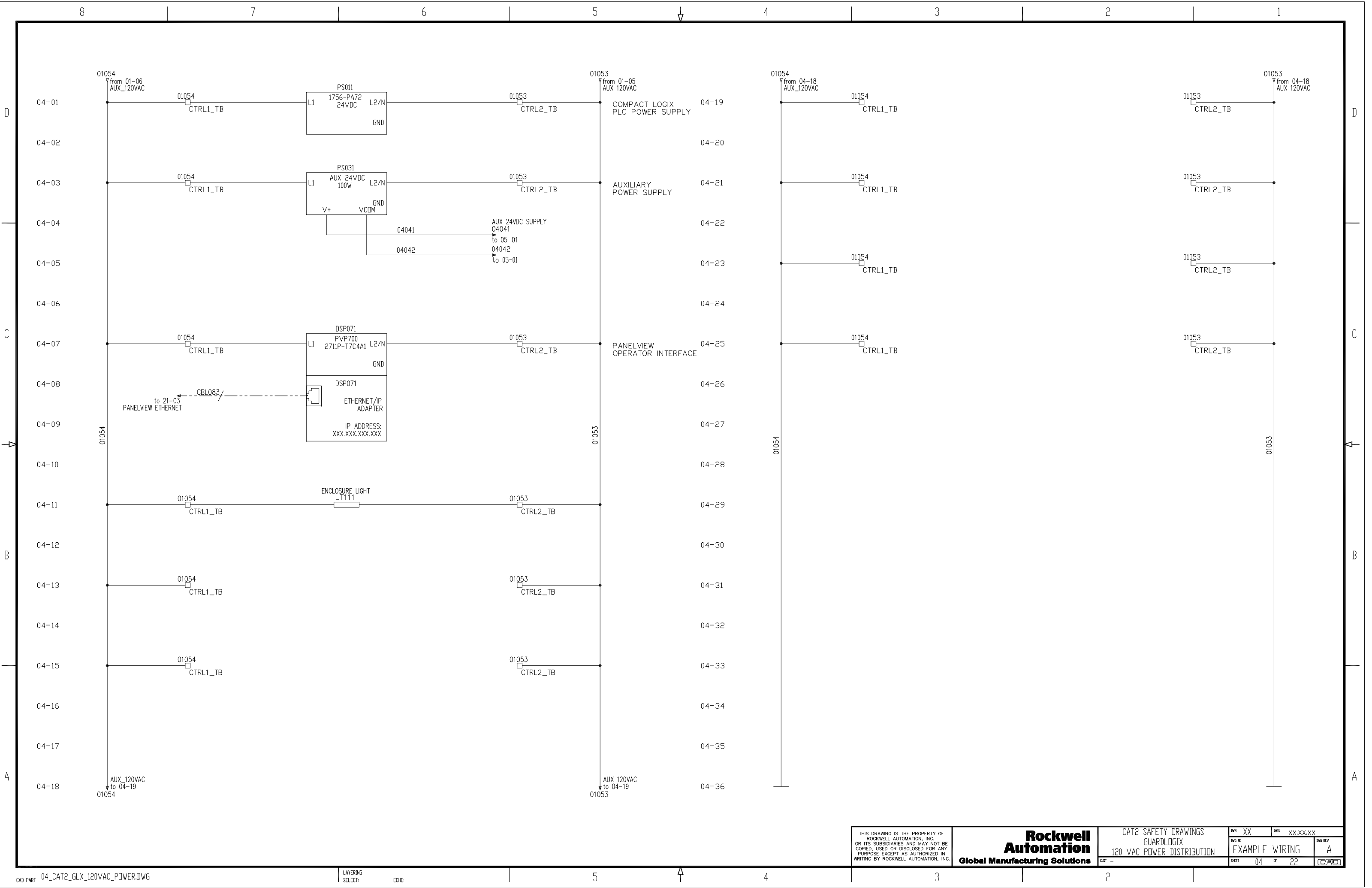
SHEET

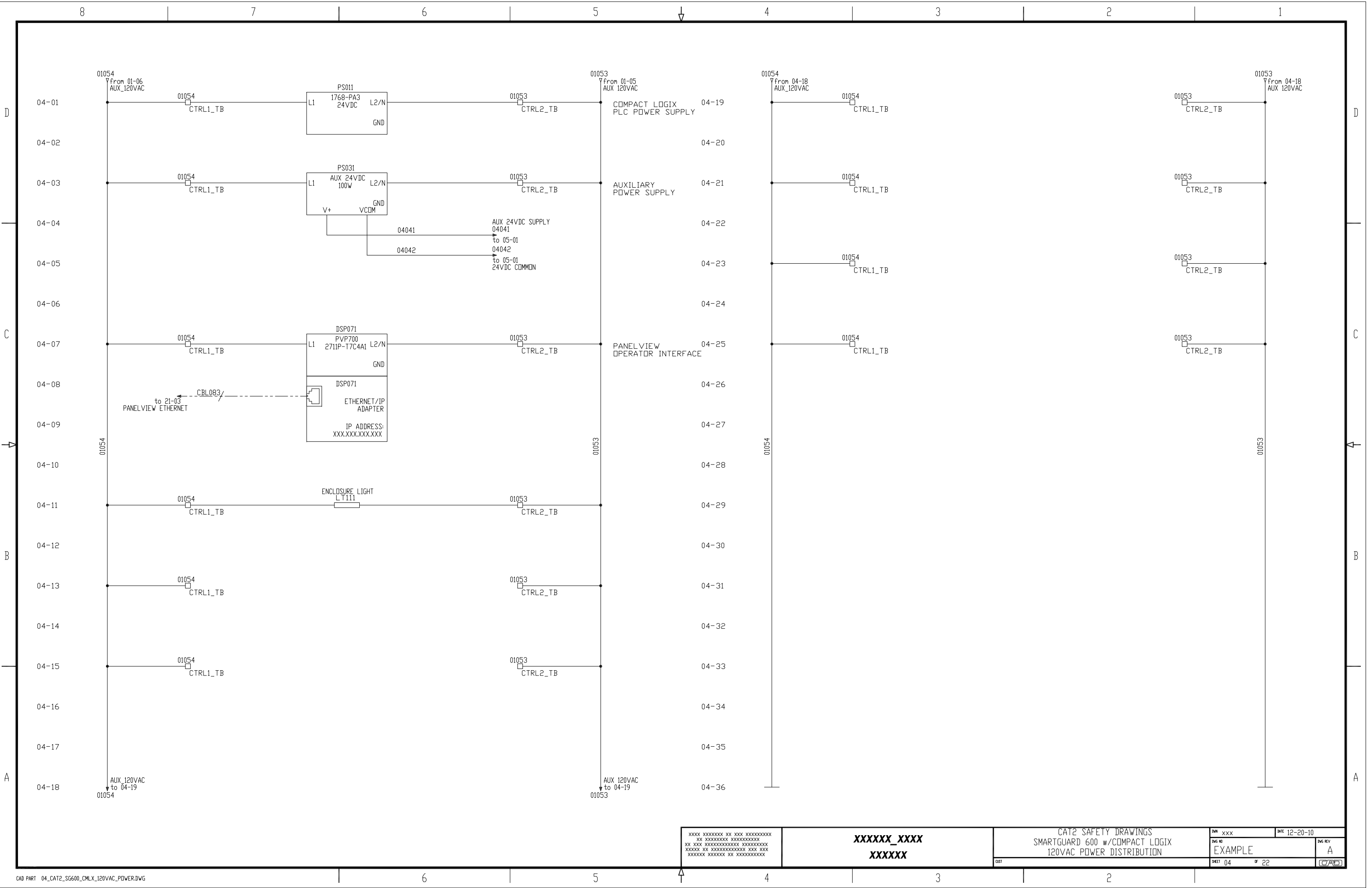
22

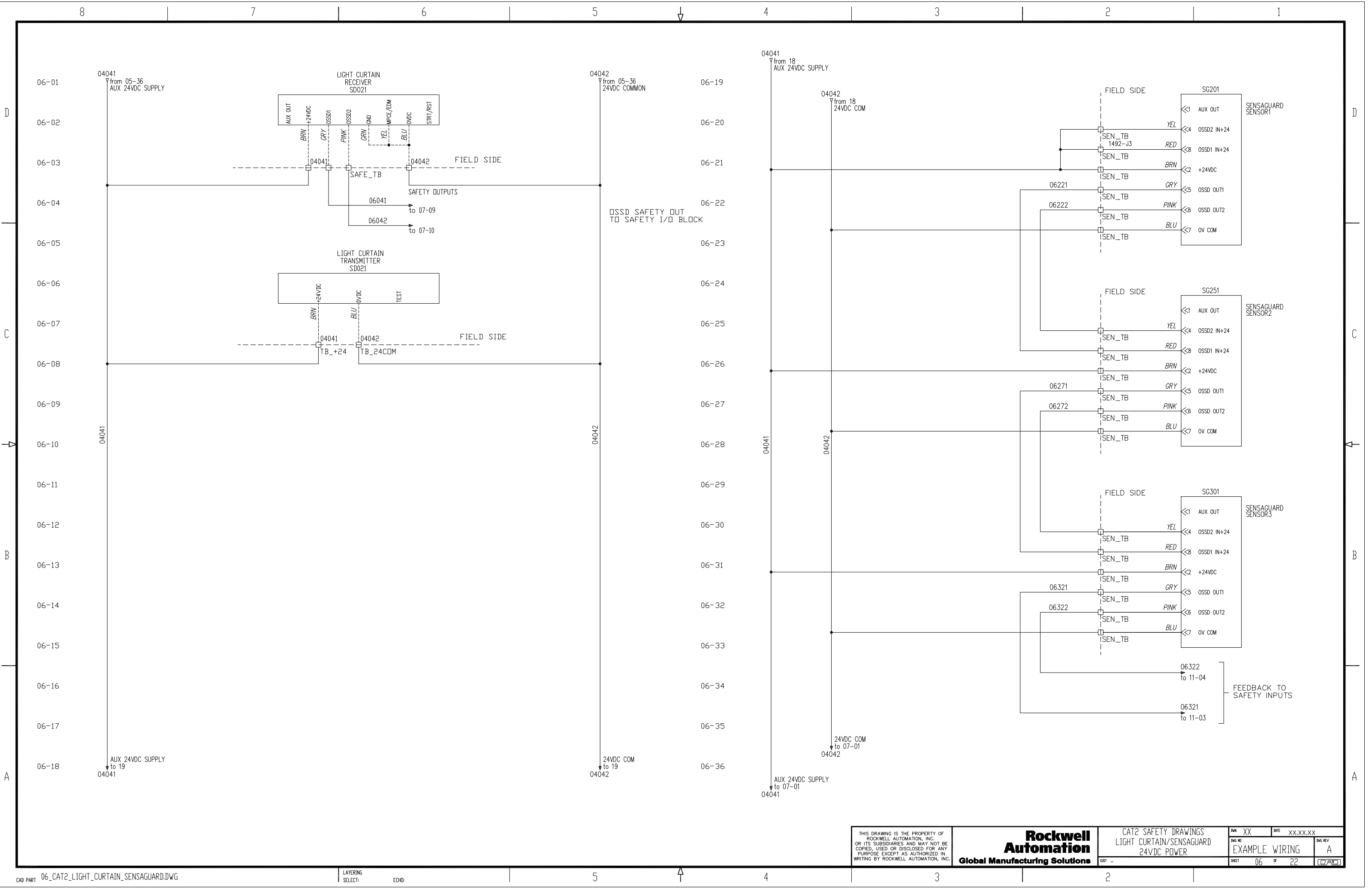




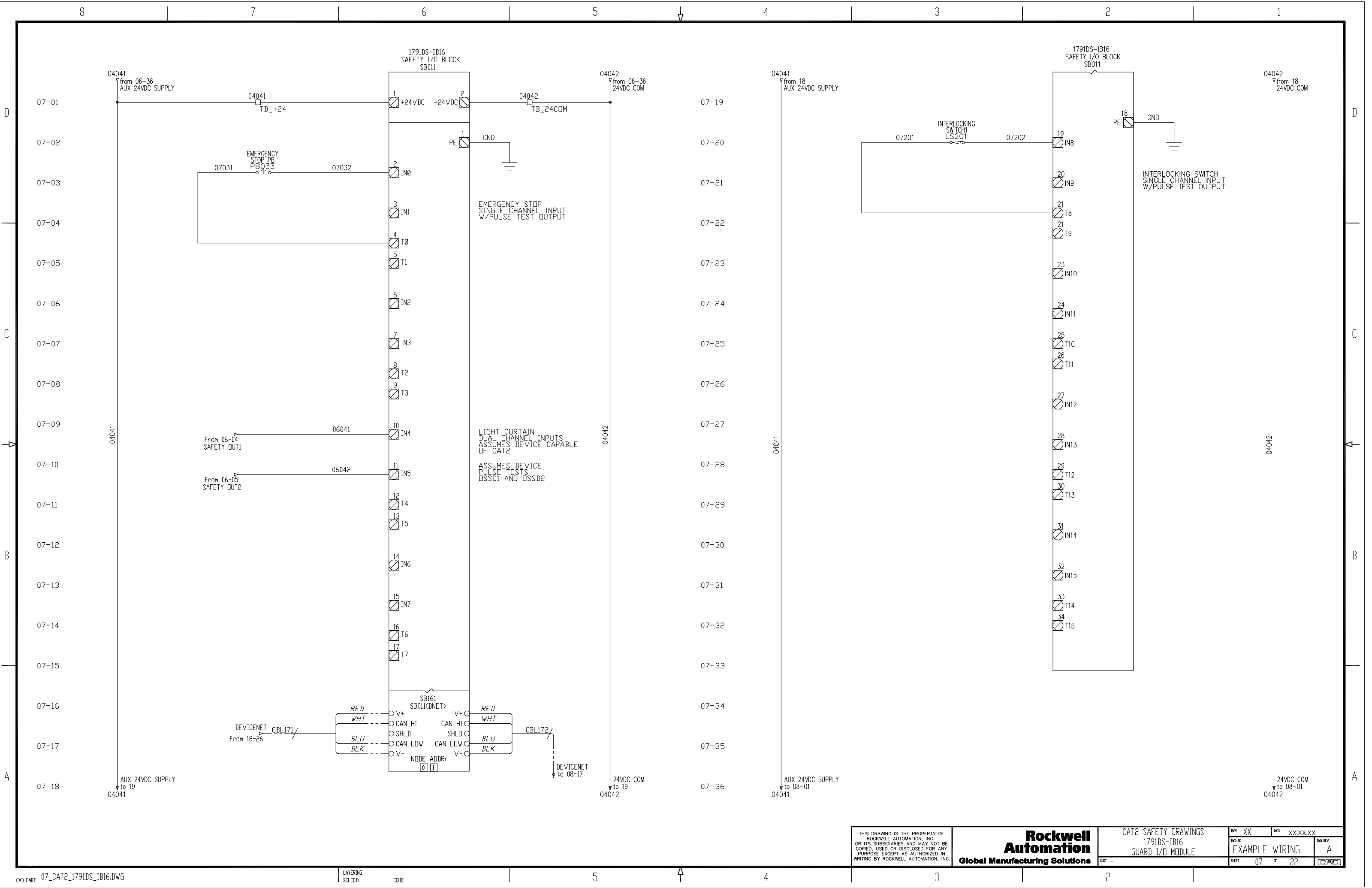




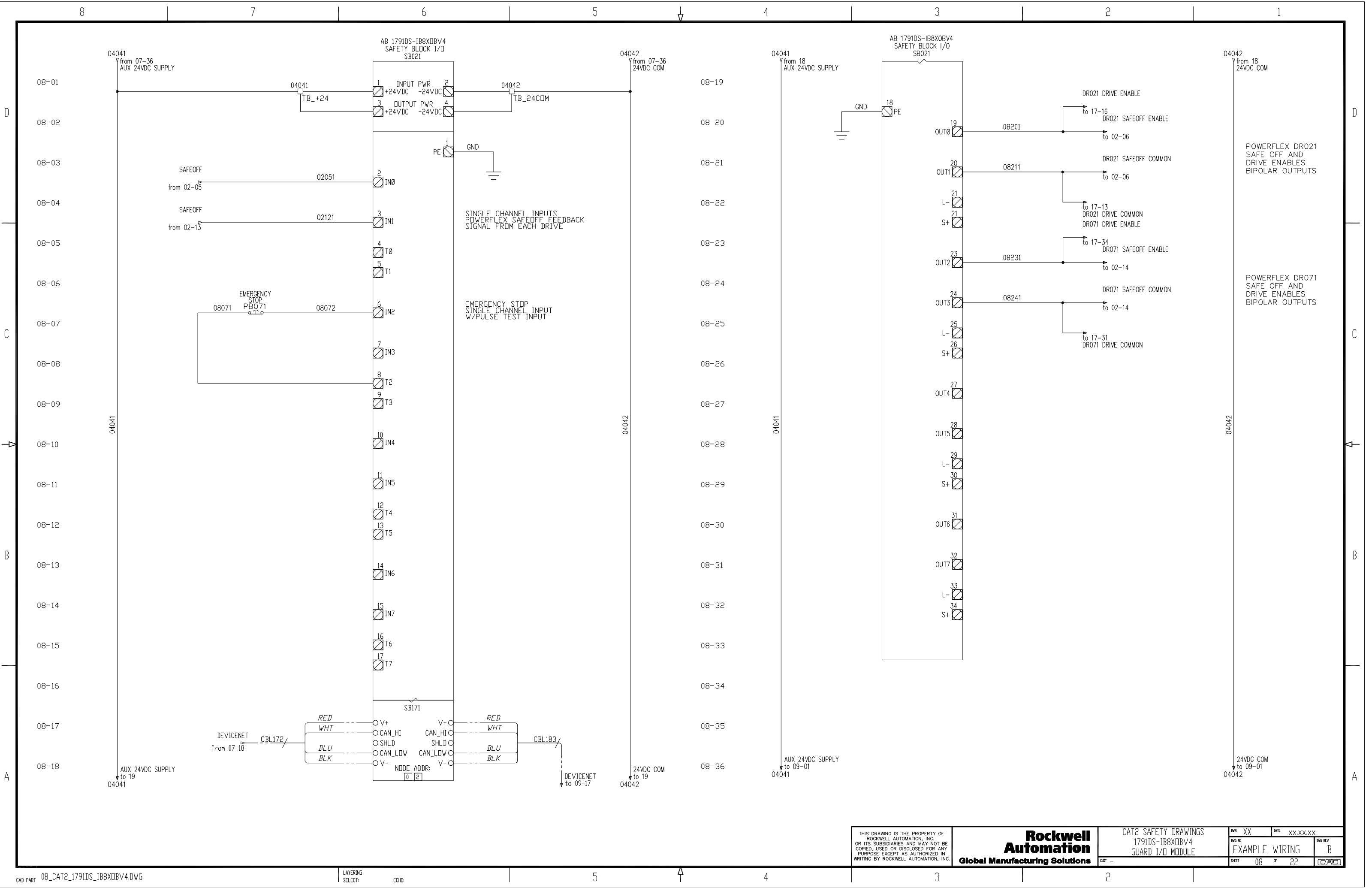








THIS DRAWING IS THE PROPERTY OF ROCKWELL AUTOMATION, INC. OR ITS SUBSIDIARIES AND MAY NOT BE COPIED, USED OR DISCLOSED FOR ANY PURPOSE EXCEPT AS AUTHORIZED IN WRITING BY ROCKWELL AUTOMATION, INC.		<b>Rockwell Automation</b> Global Manufacturing Solutions		CAT2 SAFETY DRAWINGS 1791DS-IB16 GUARD I/O MODULE		DWG NO EXAMPLE WIRING	DWG REV A
						SHEET 07	OF 22
						DATE XX.XX.XX	

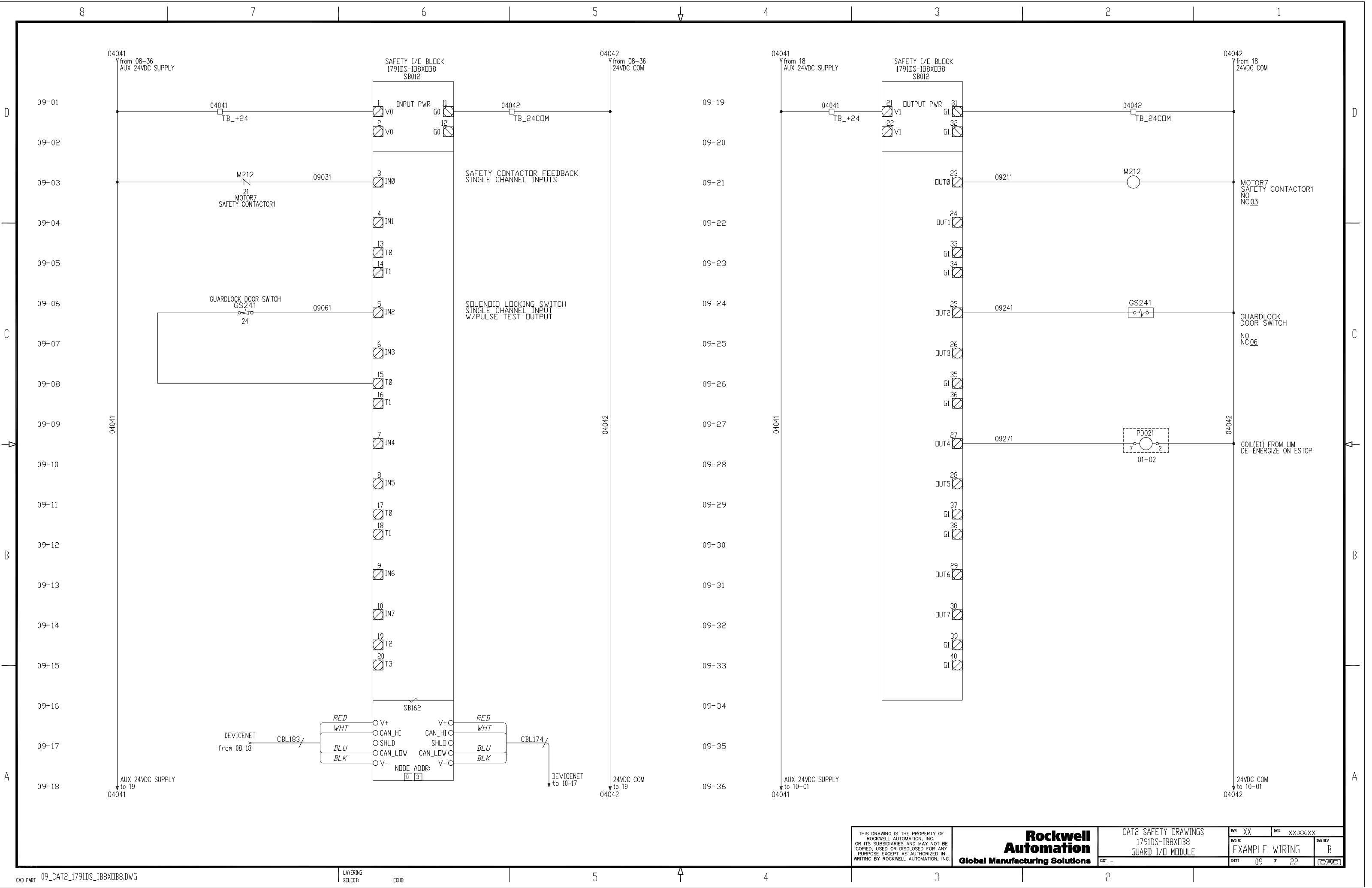


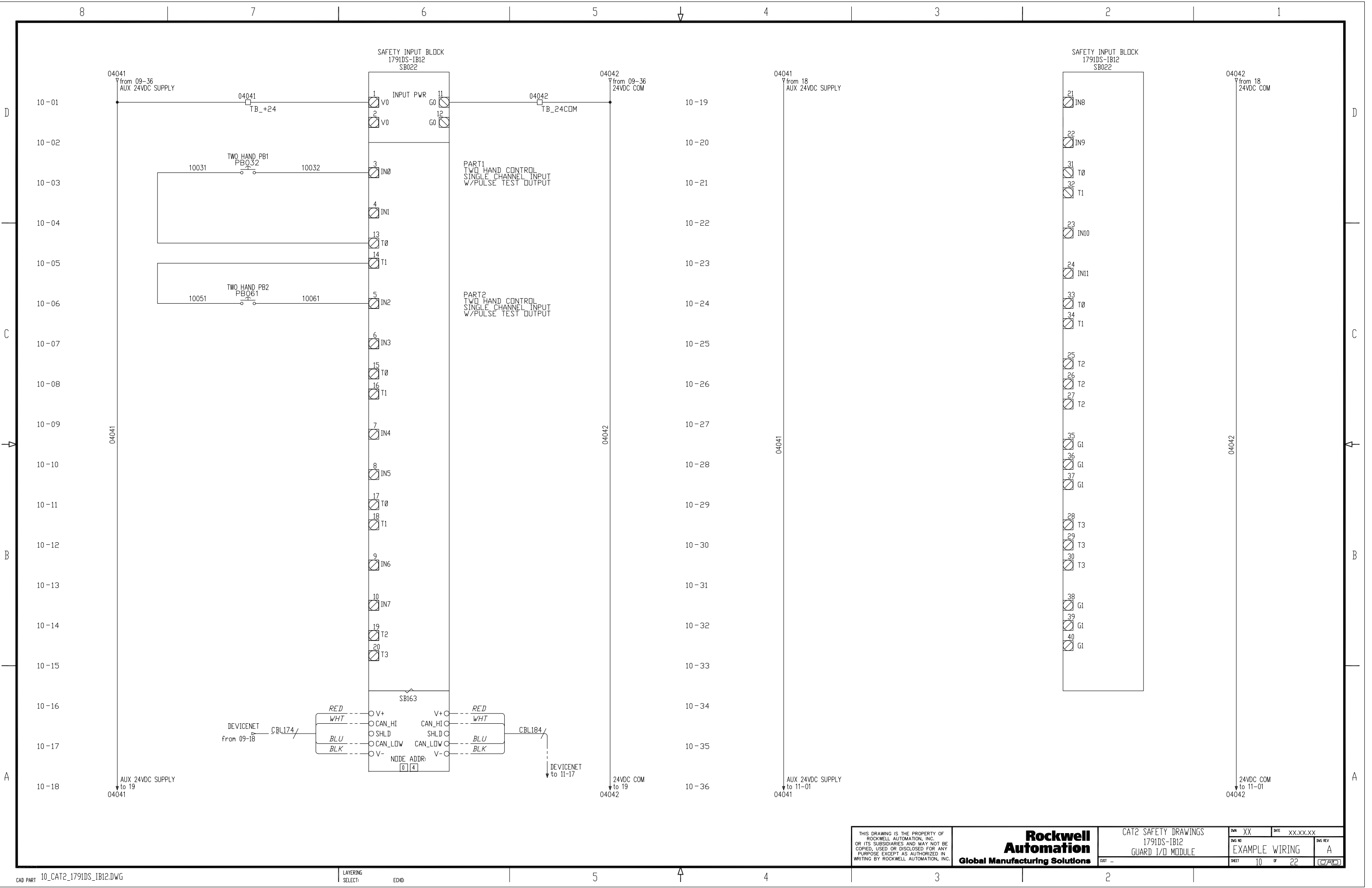
THIS DRAWING IS THE PROPERTY OF  
ROCKWELL AUTOMATION, INC.  
OR ITS SUBSIDIARIES AND MAY NOT BE  
COPIED, USED OR DISCLOSED FOR ANY  
PURPOSE EXCEPT AS AUTHORIZED IN  
WRITING BY ROCKWELL AUTOMATION, INC.

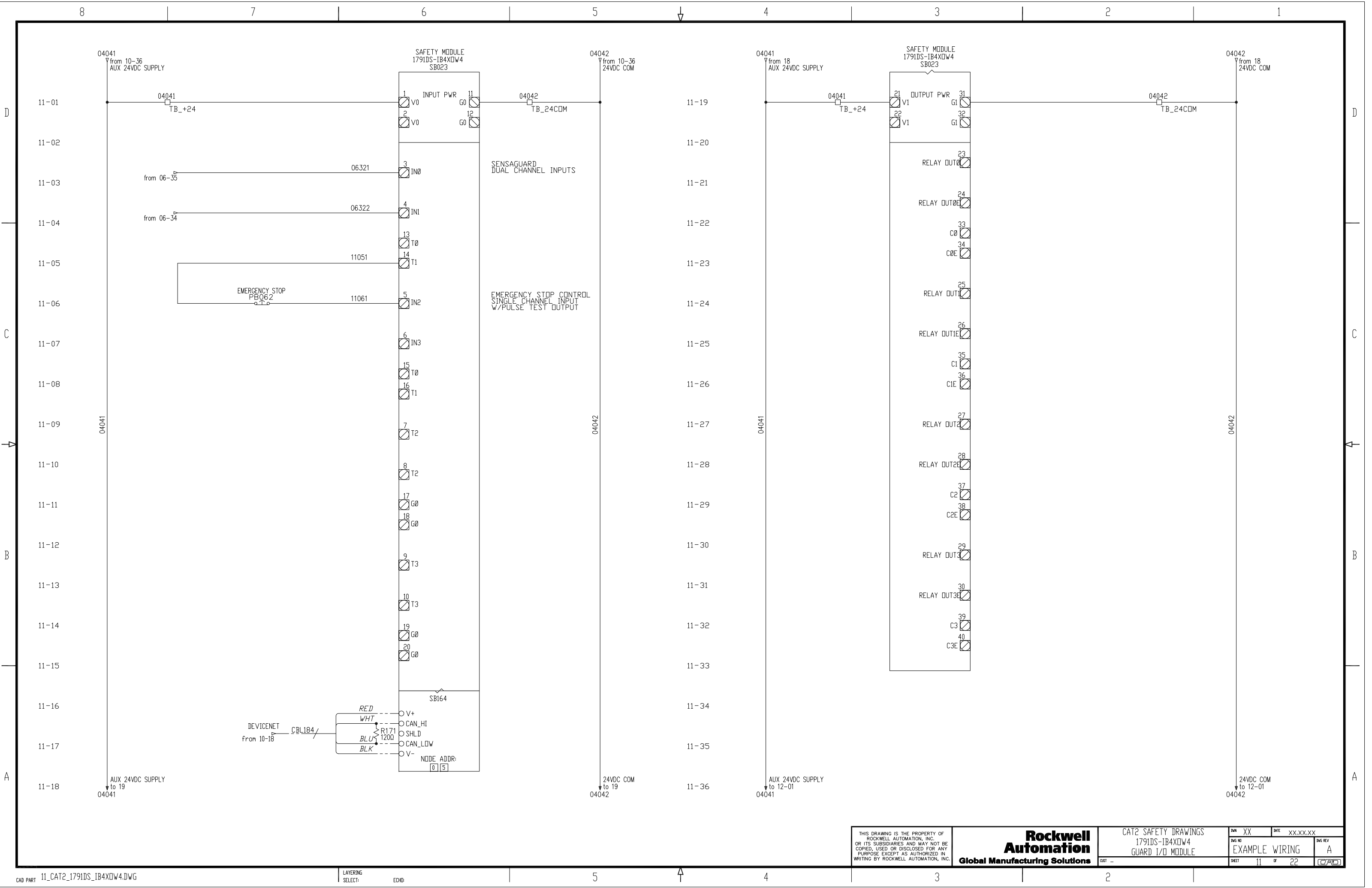
**Rockwell  
Automation**  
Global Manufacturing Solutions

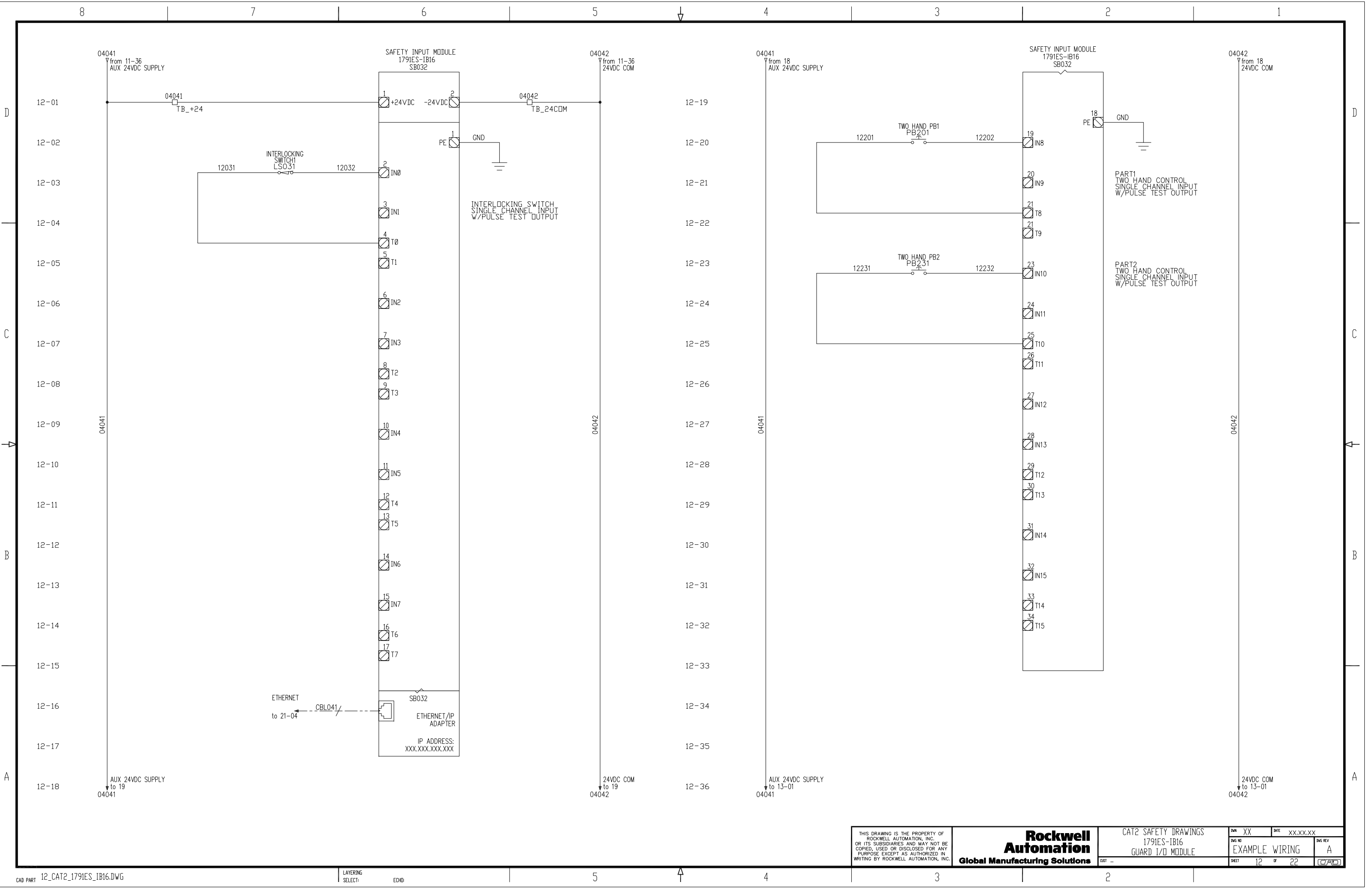
CAT2 SAFETY DRAWINGS  
1791DS-IB8X0BV4  
GUARD I/O MODULE

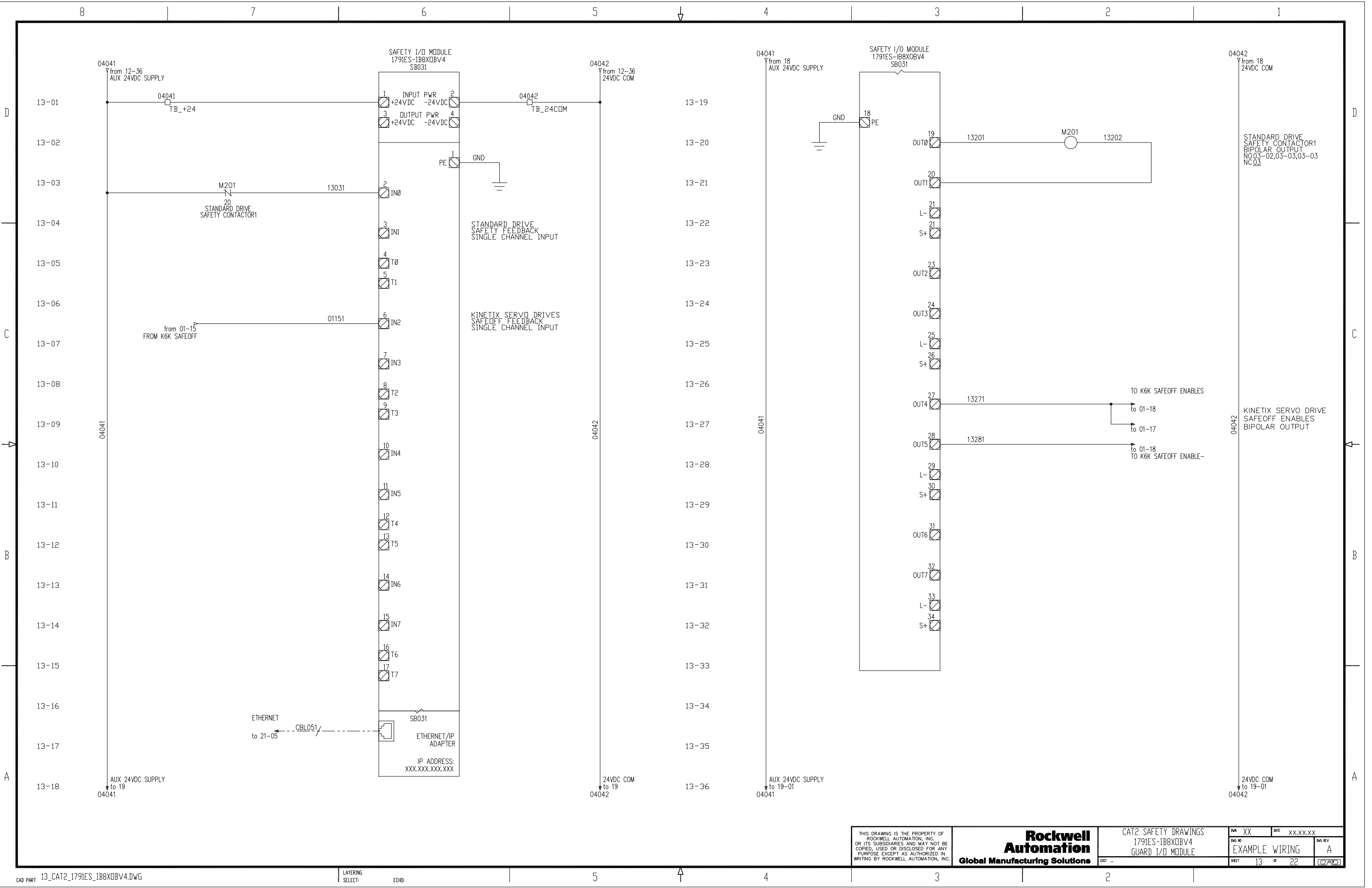
DWG NO	XX	DATE	XX.XX.XX
DWG REV	EXAMPLE WIRING	DWG REV	B
SHEET	08	OF	22
CAD			





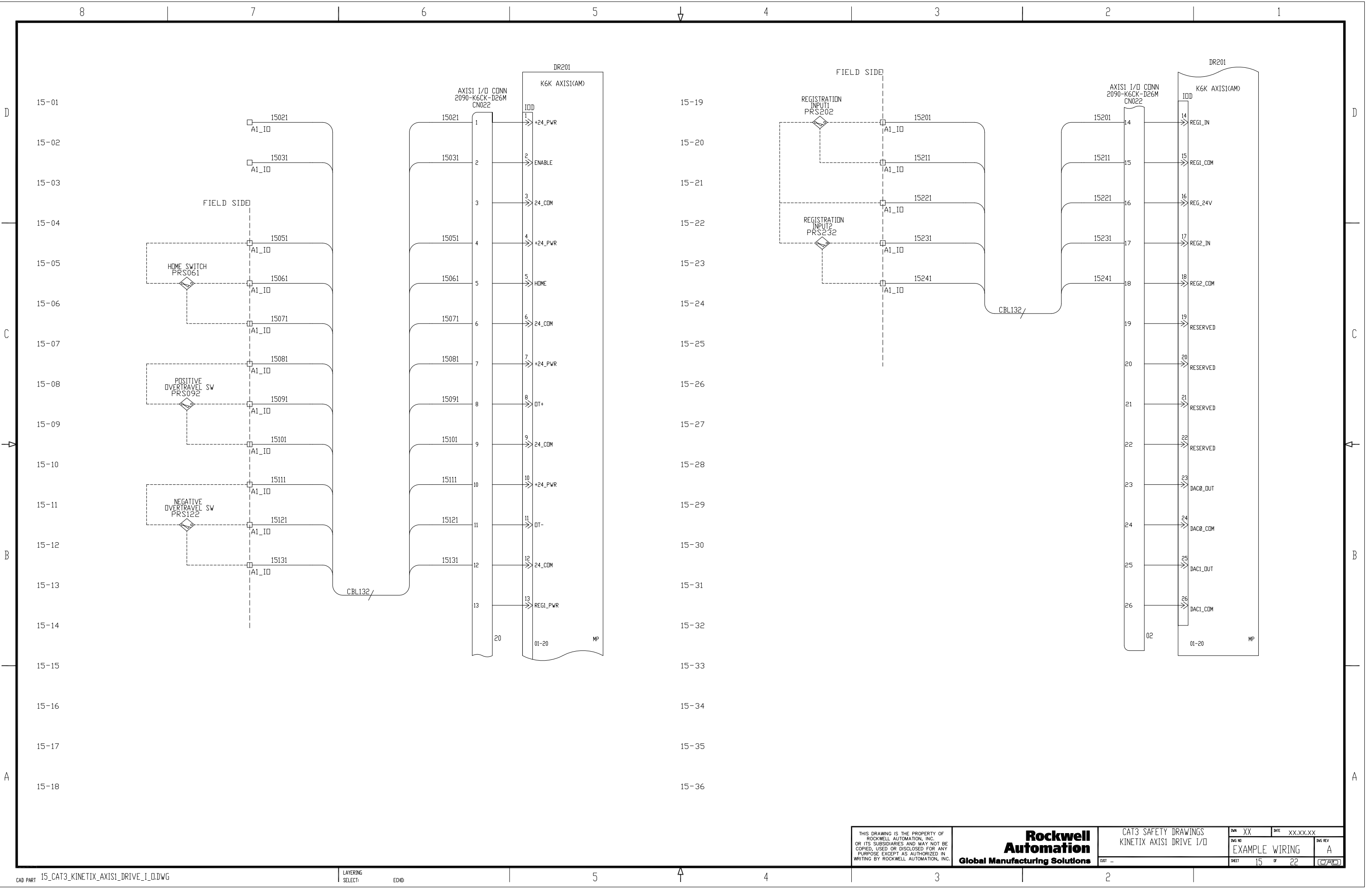




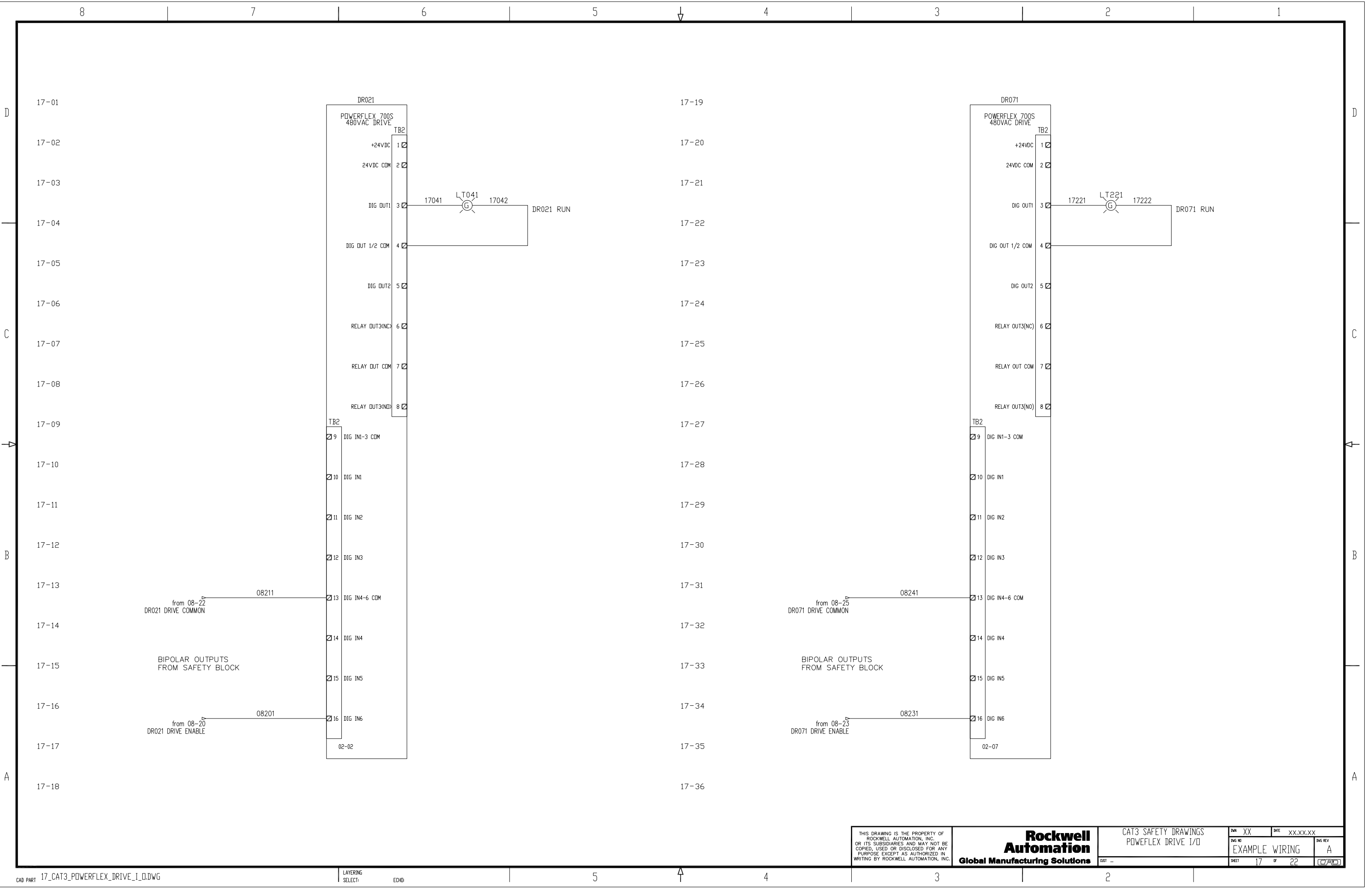


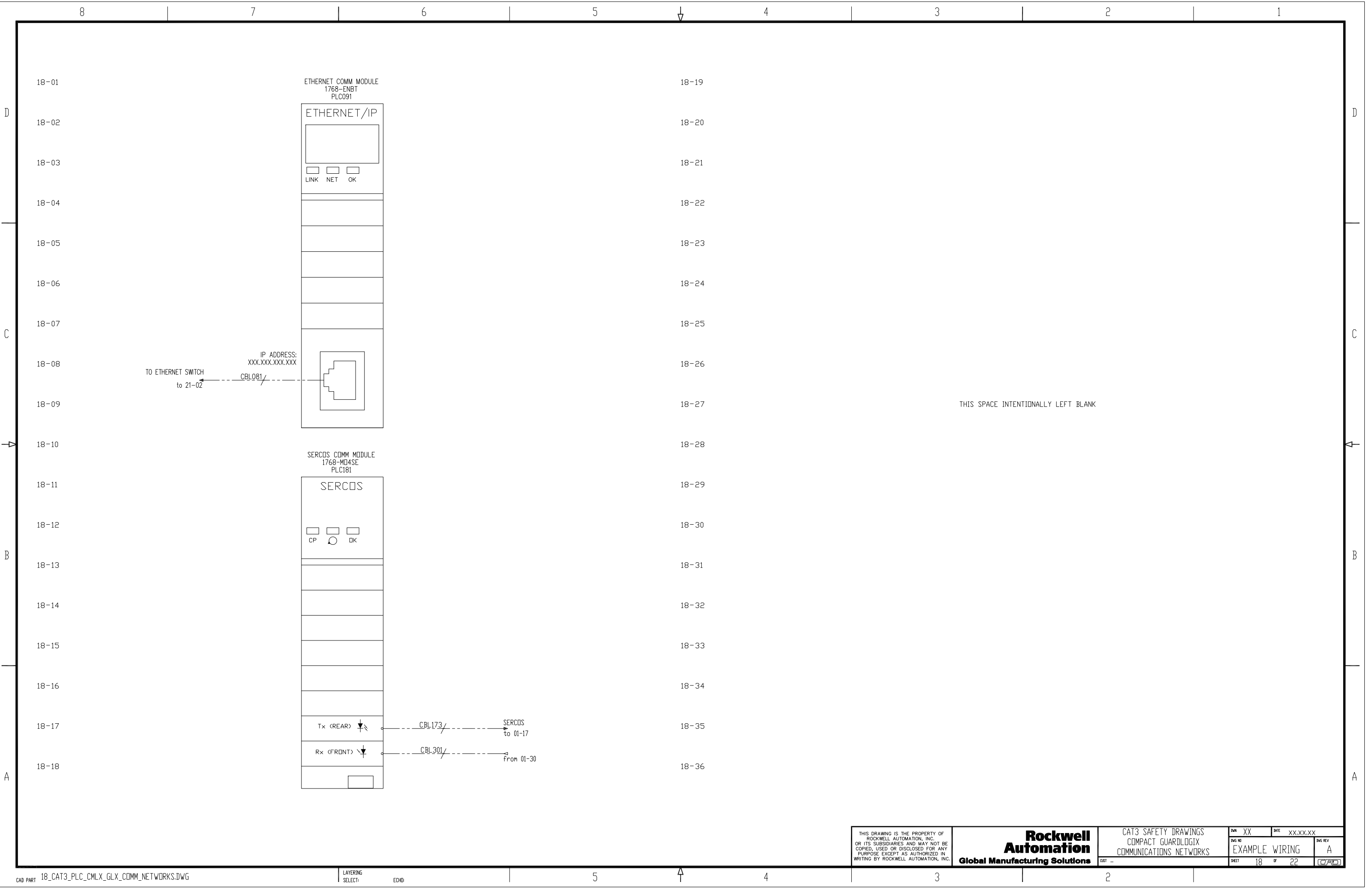


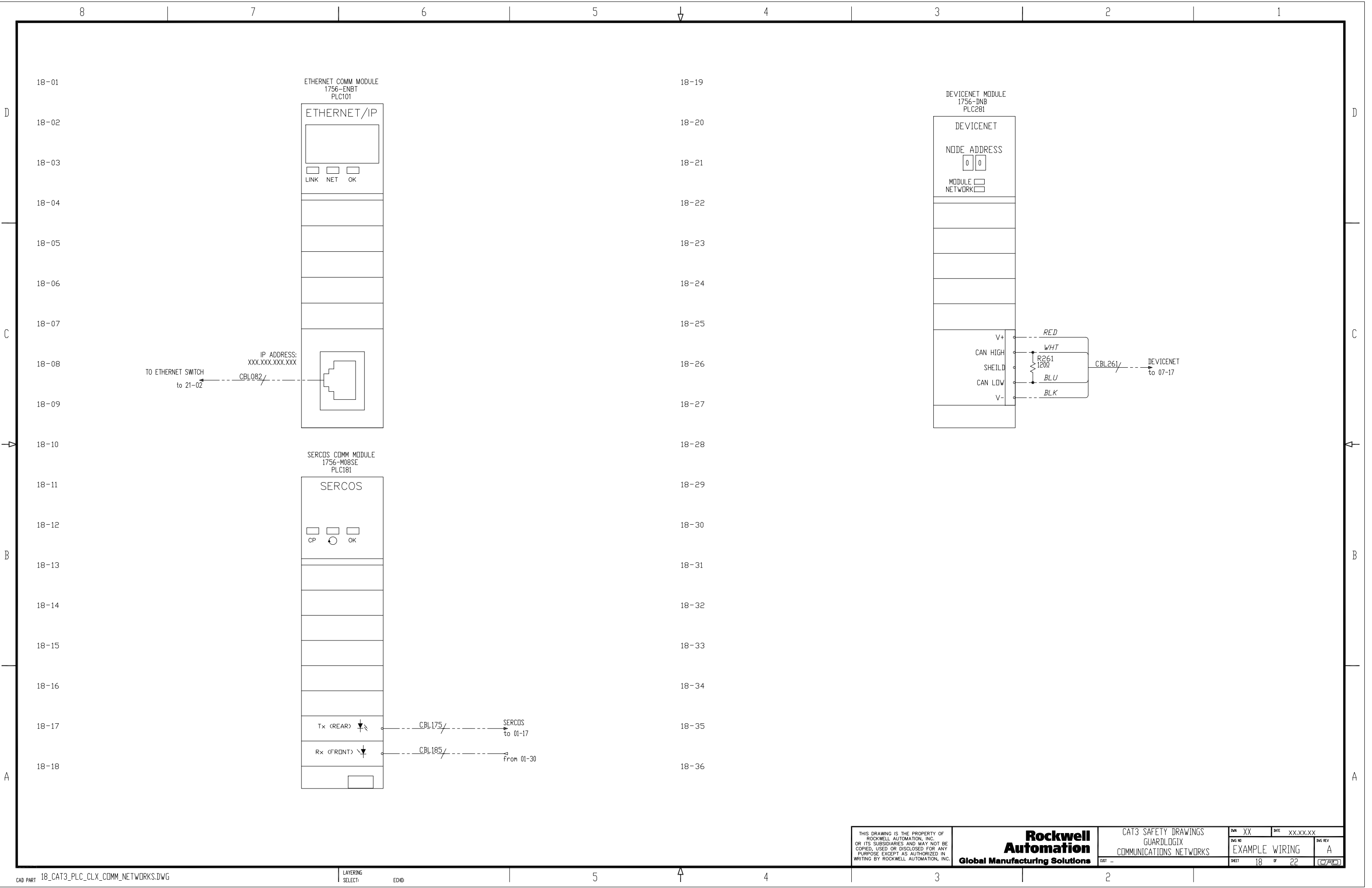


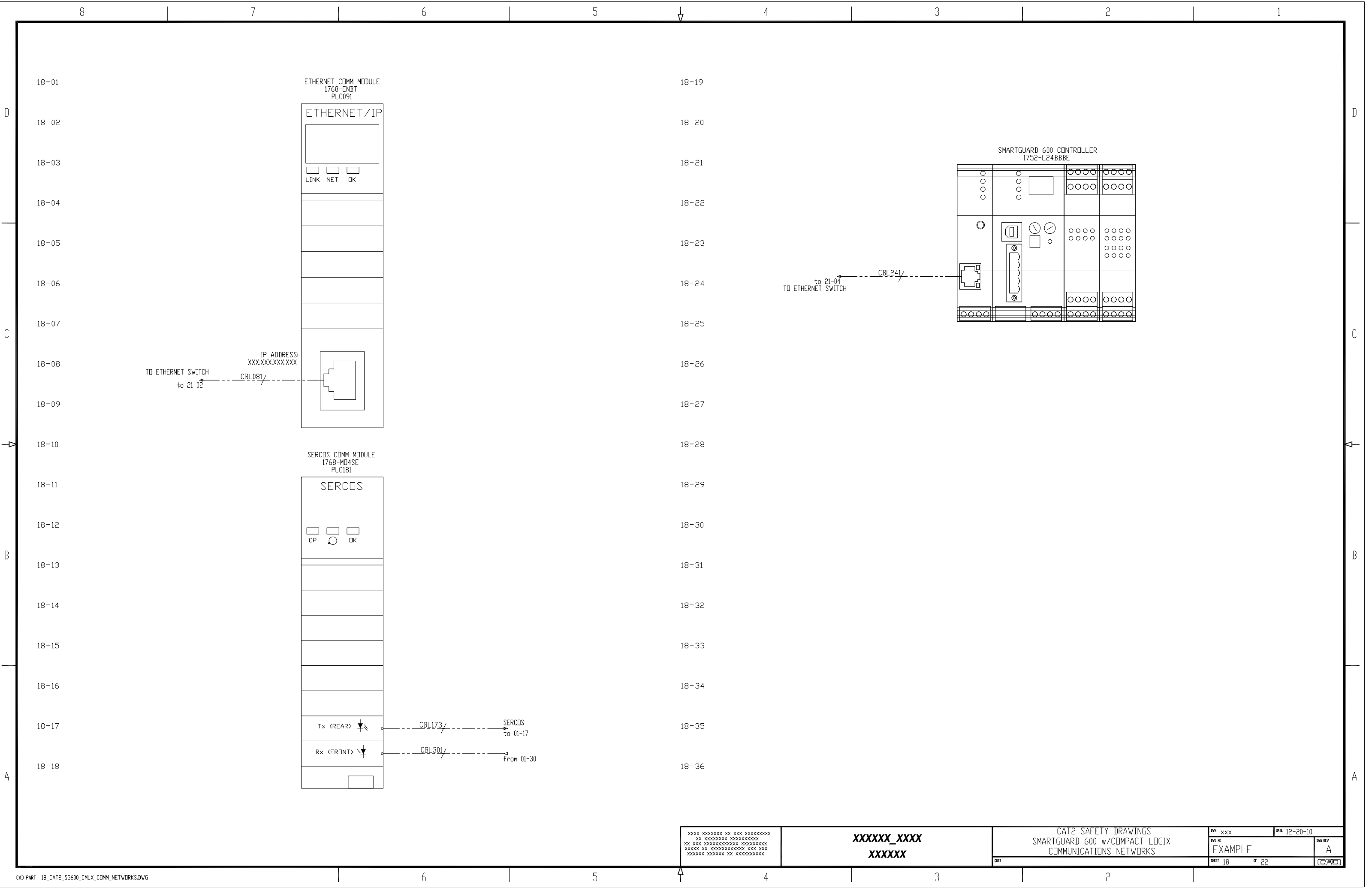


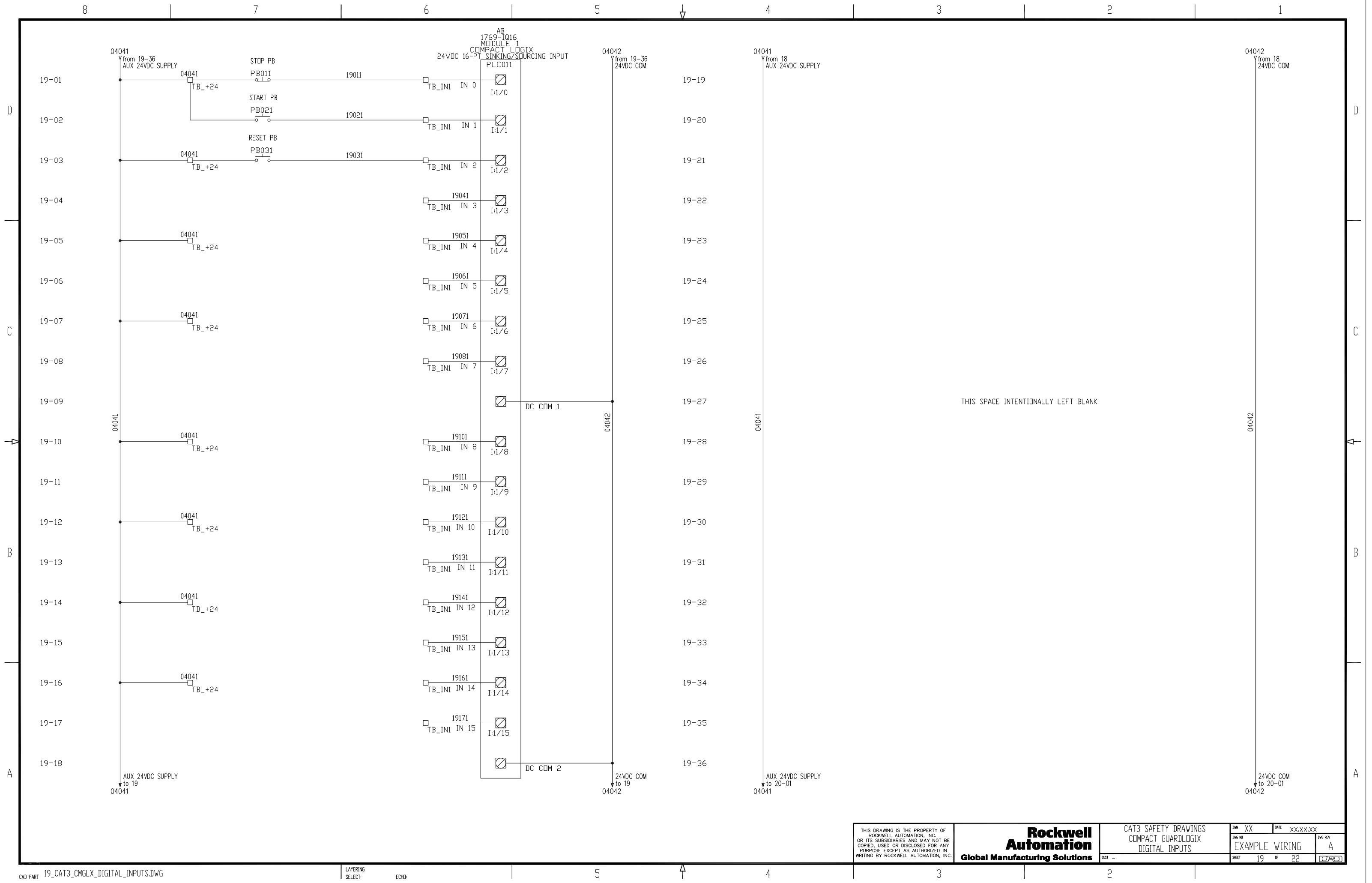


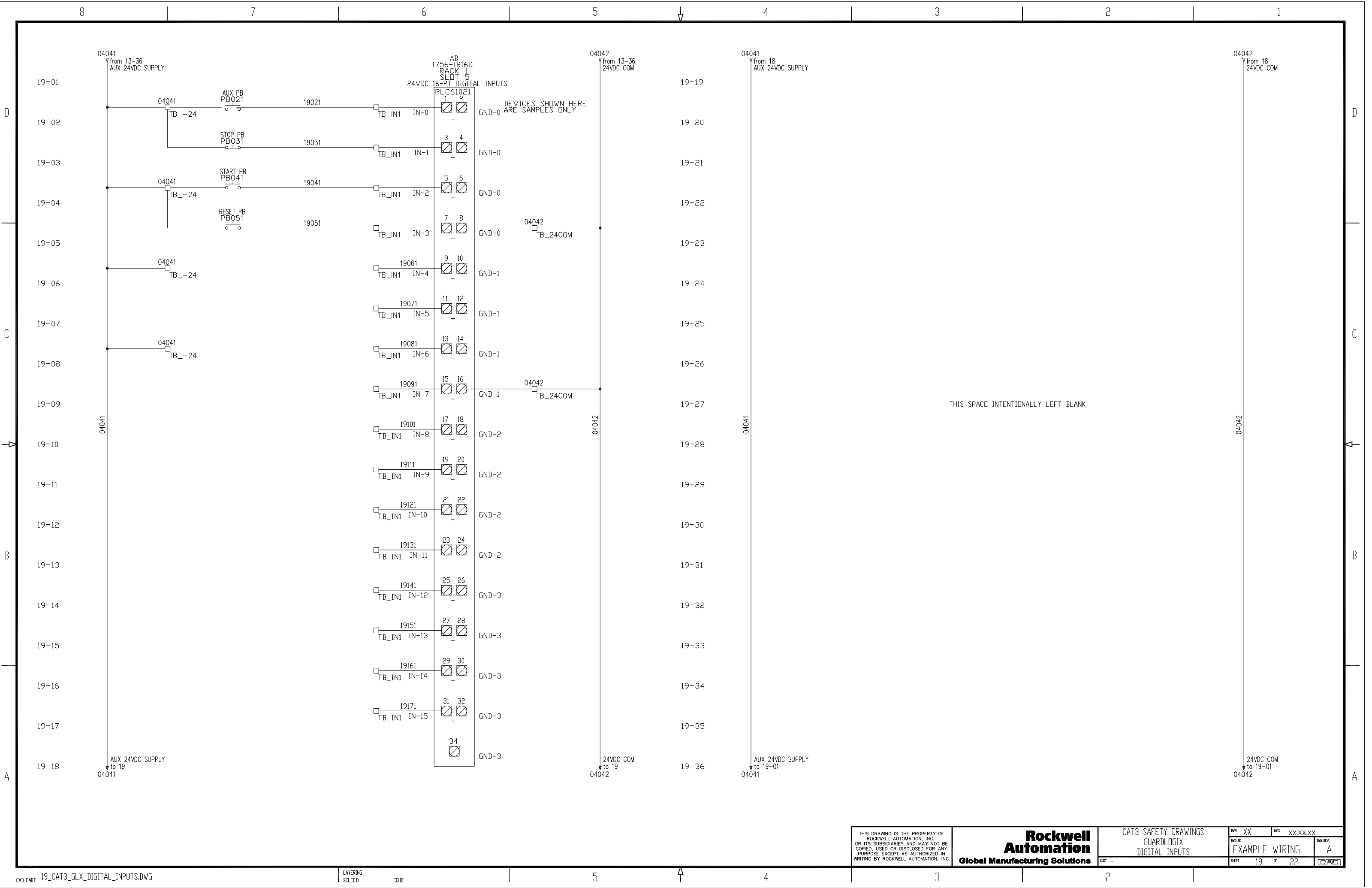




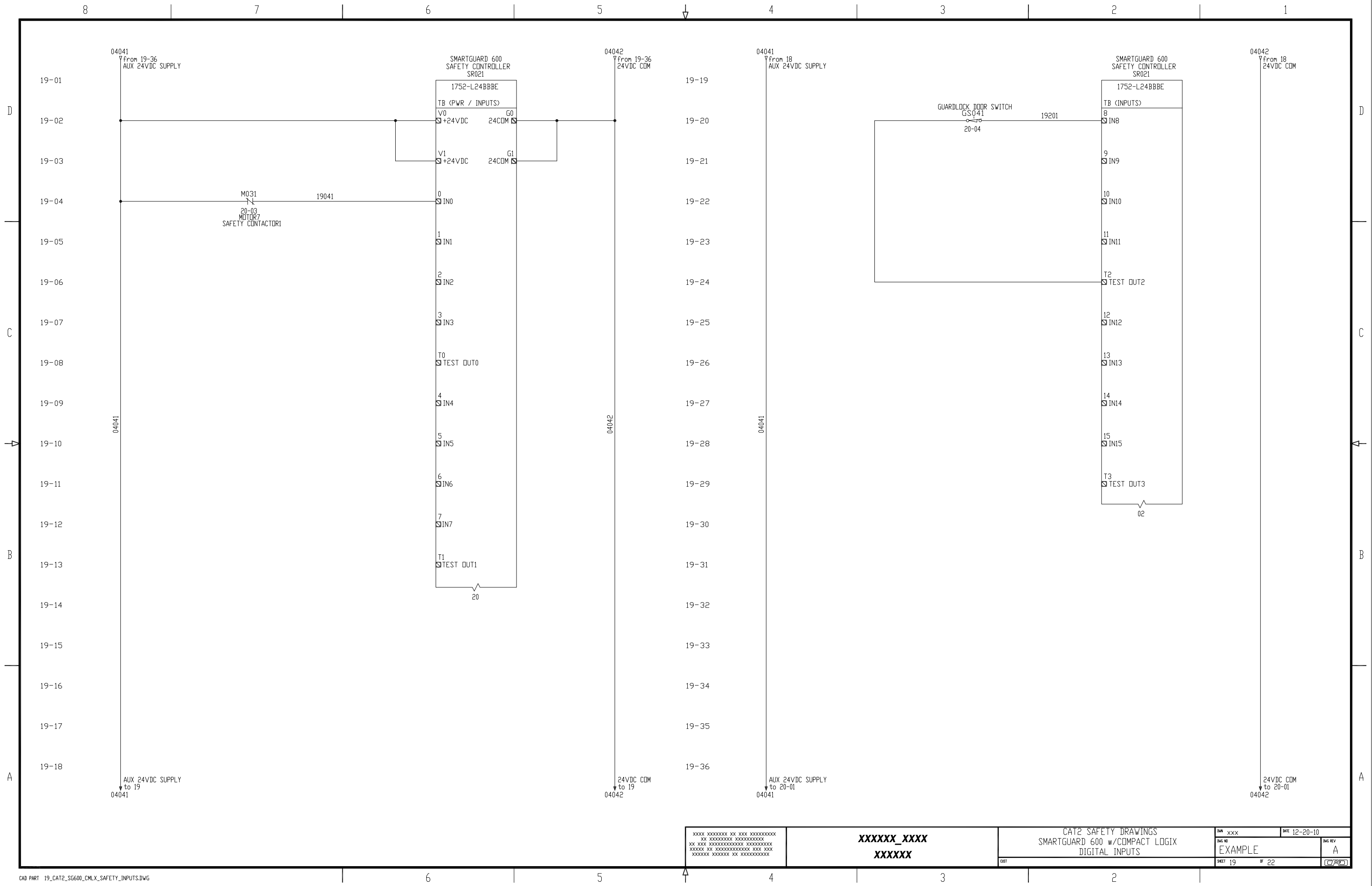


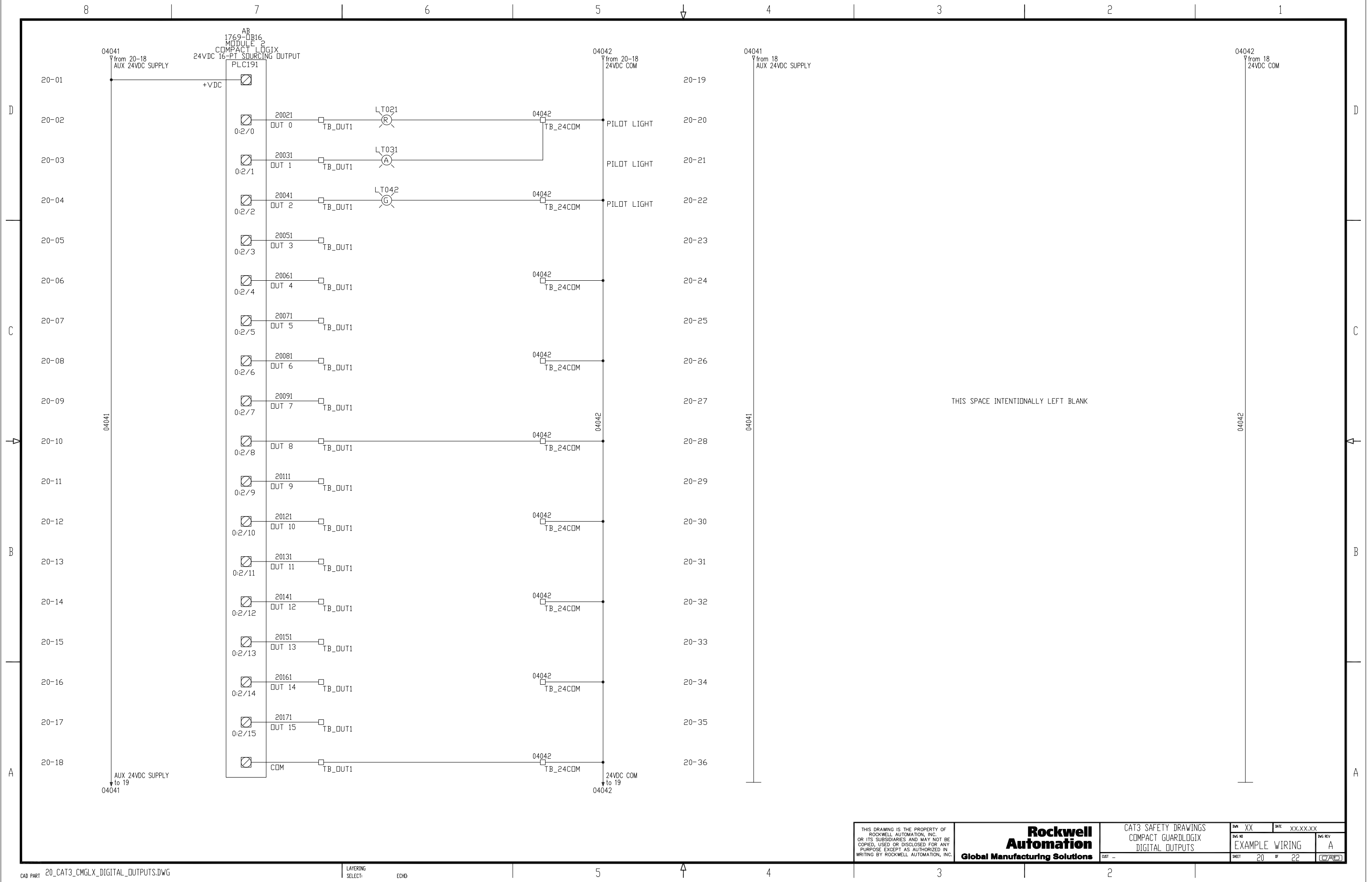


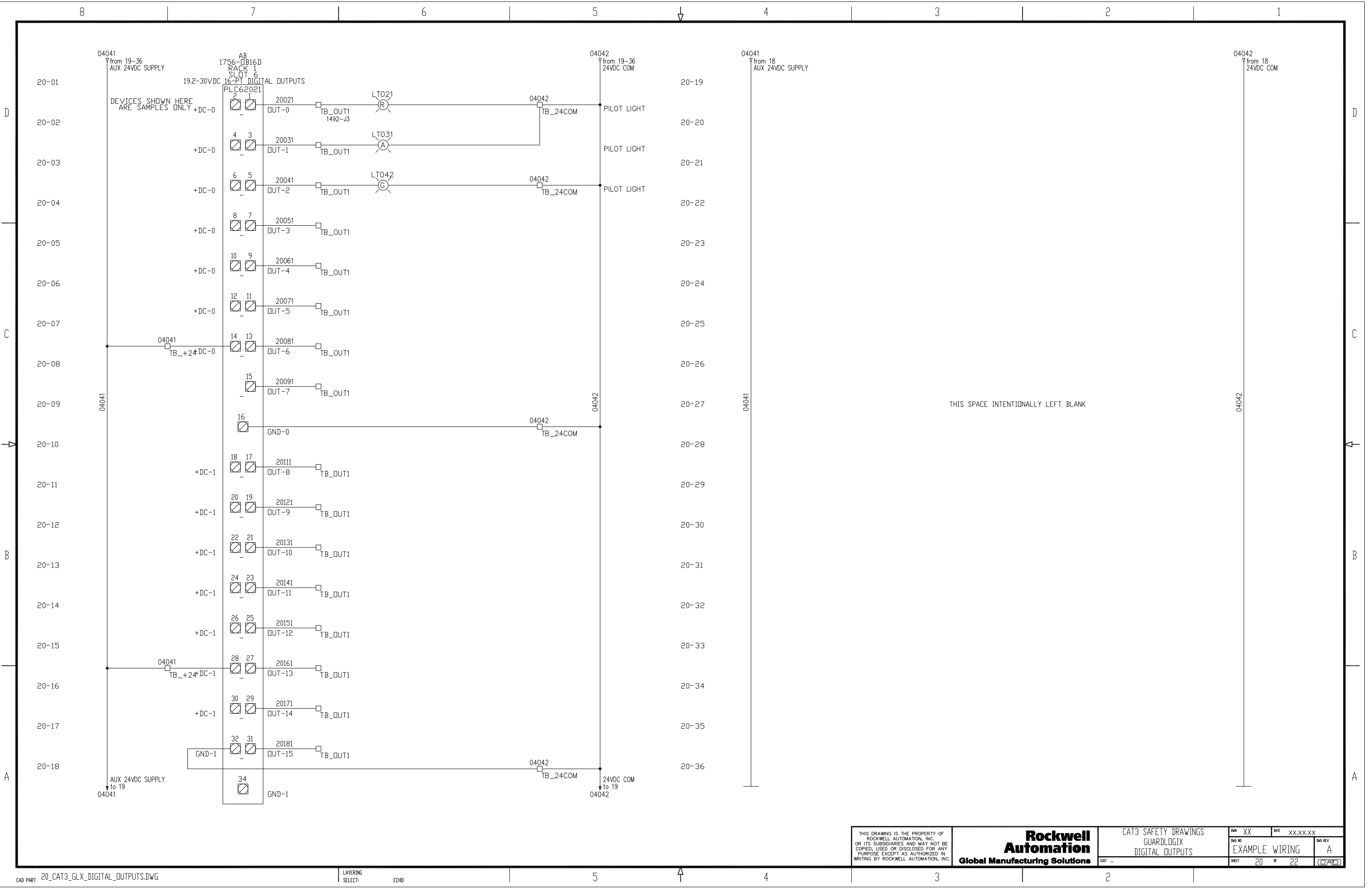


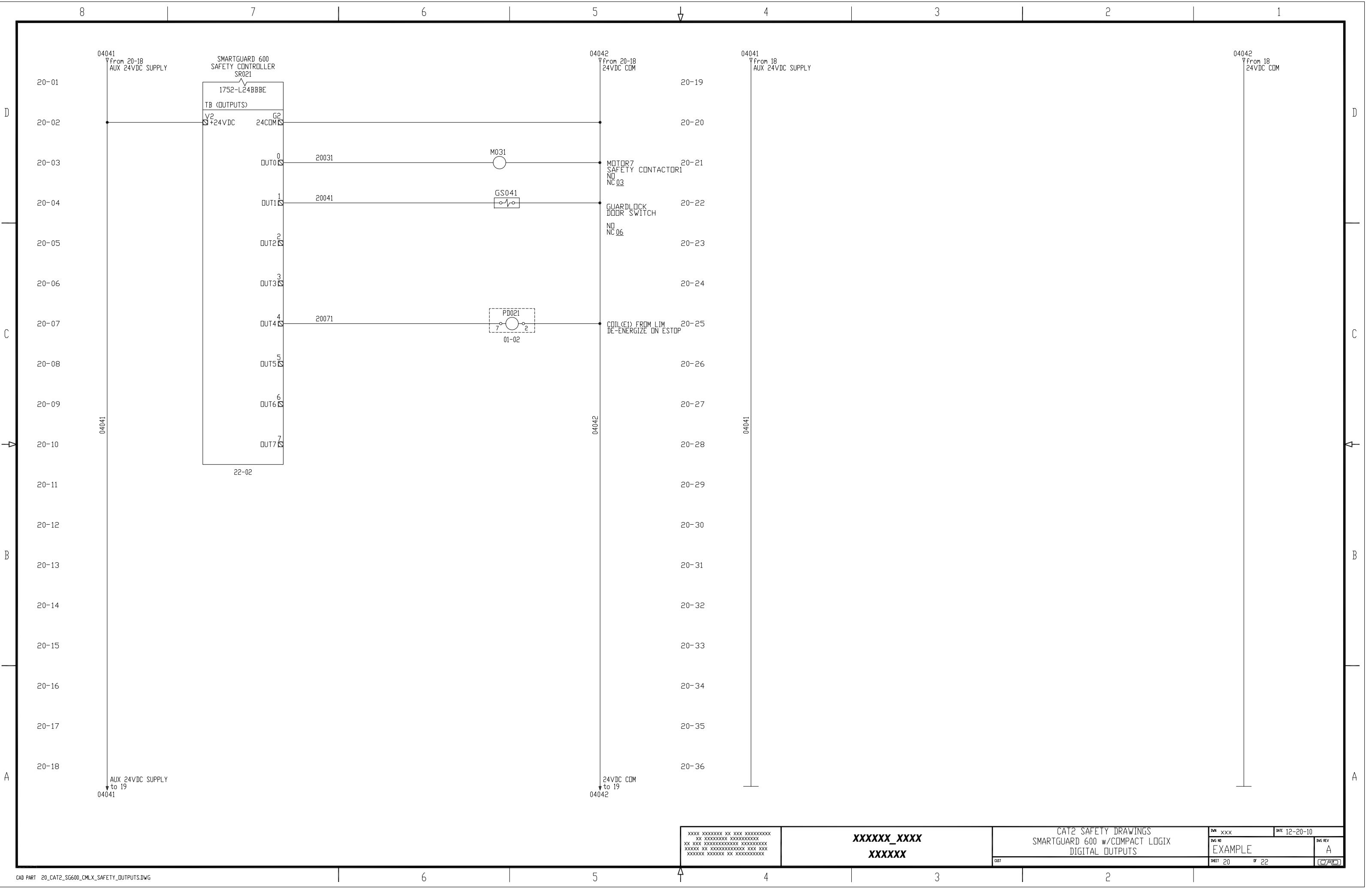


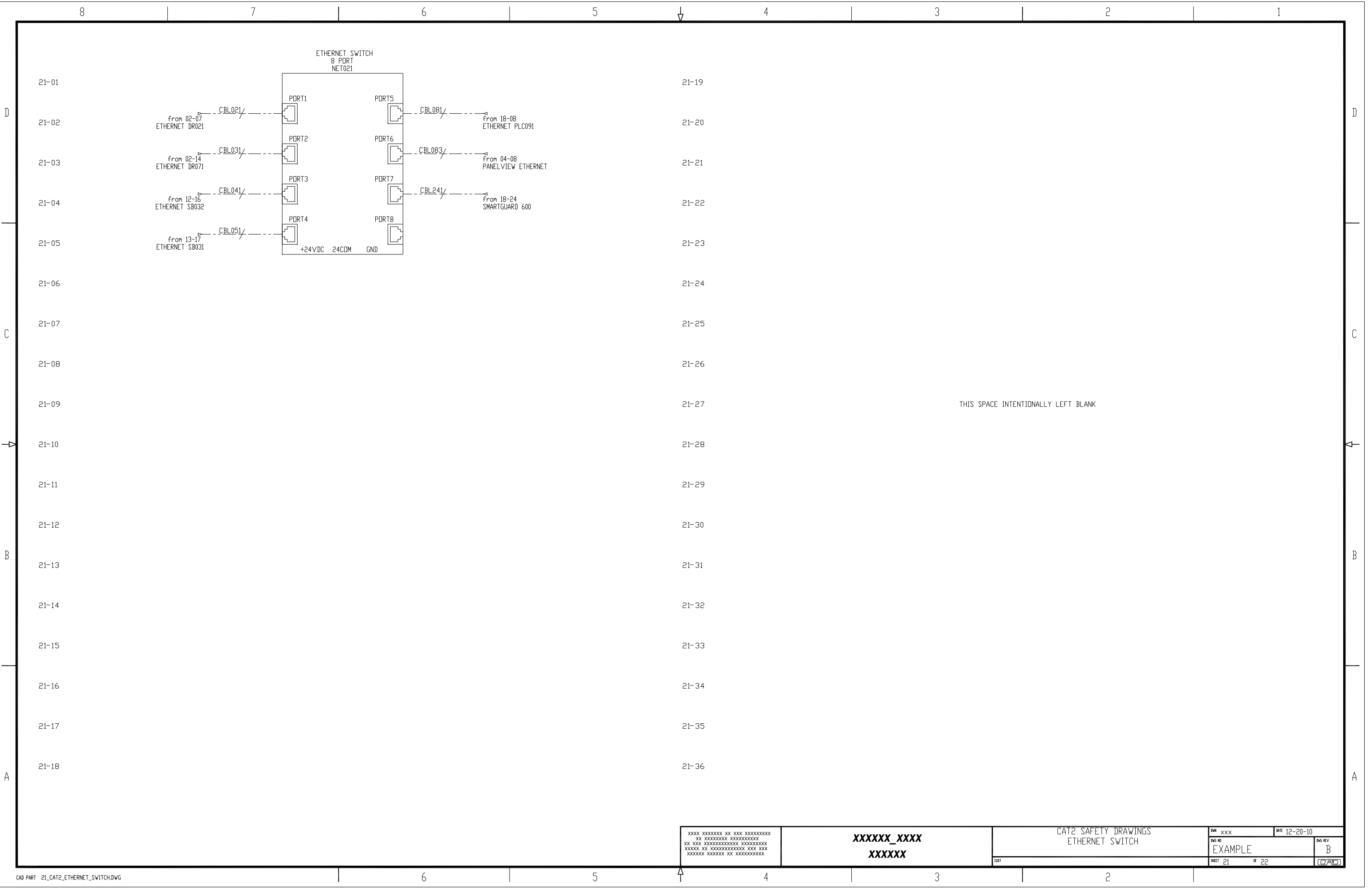


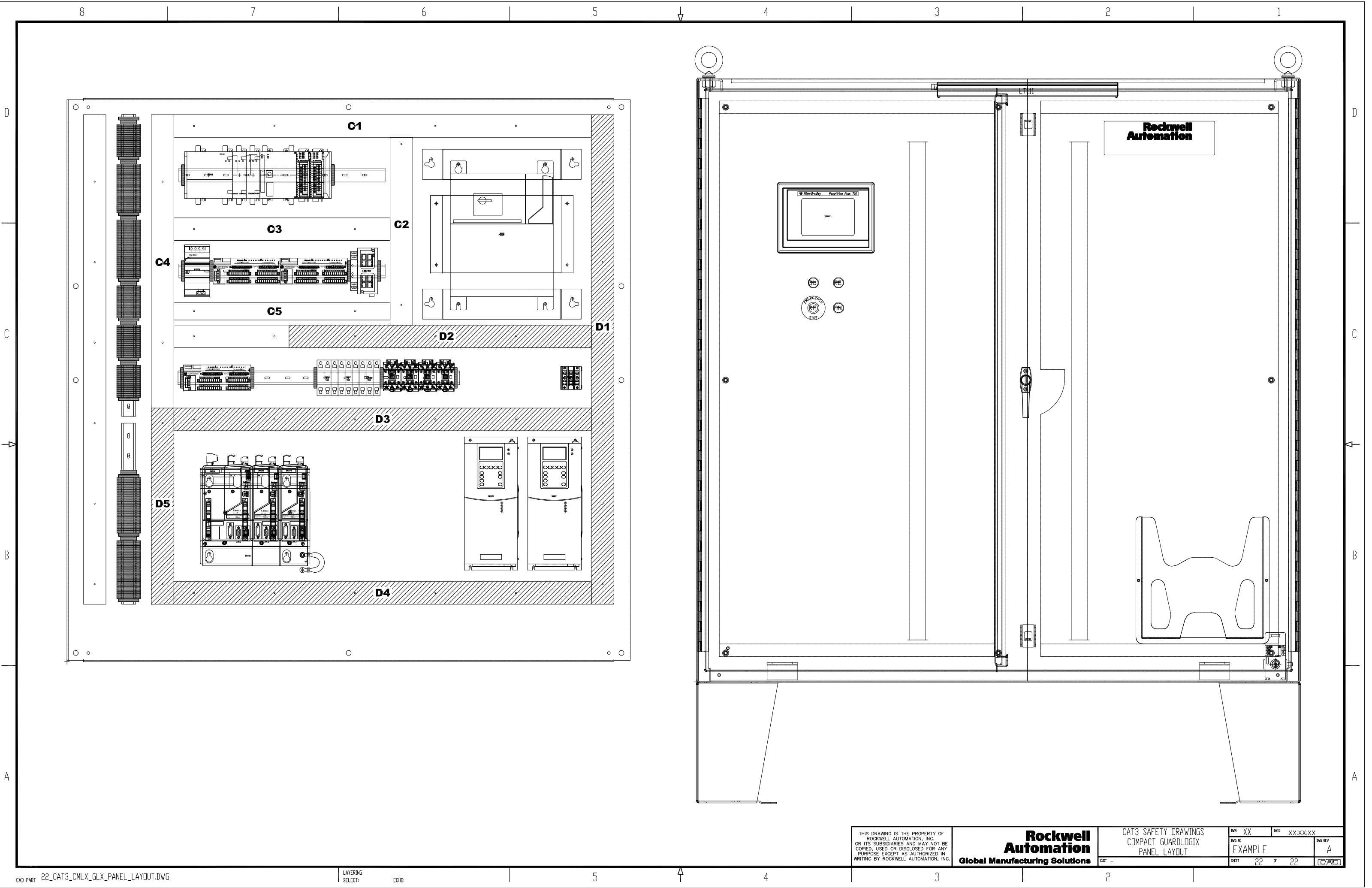










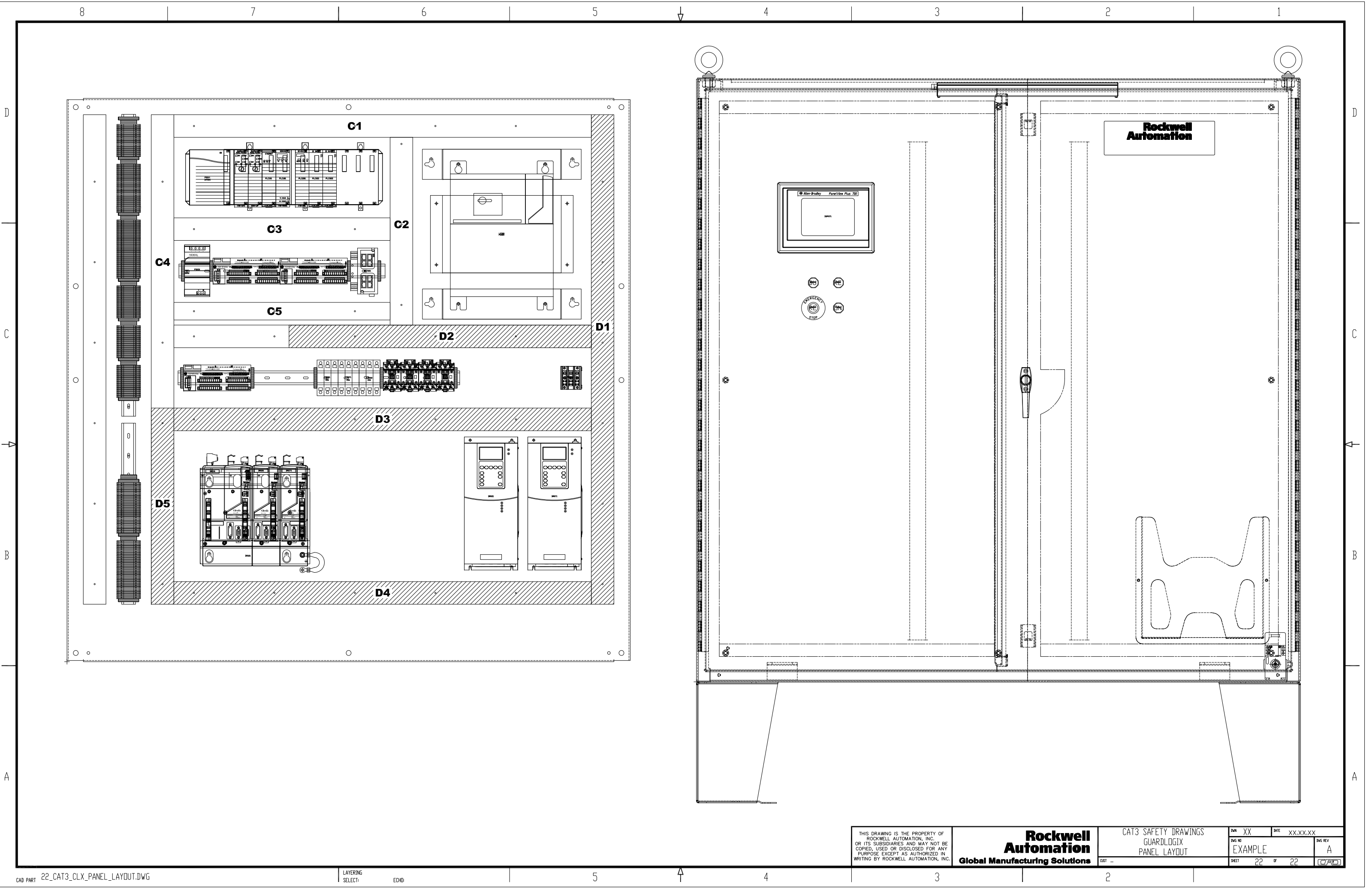


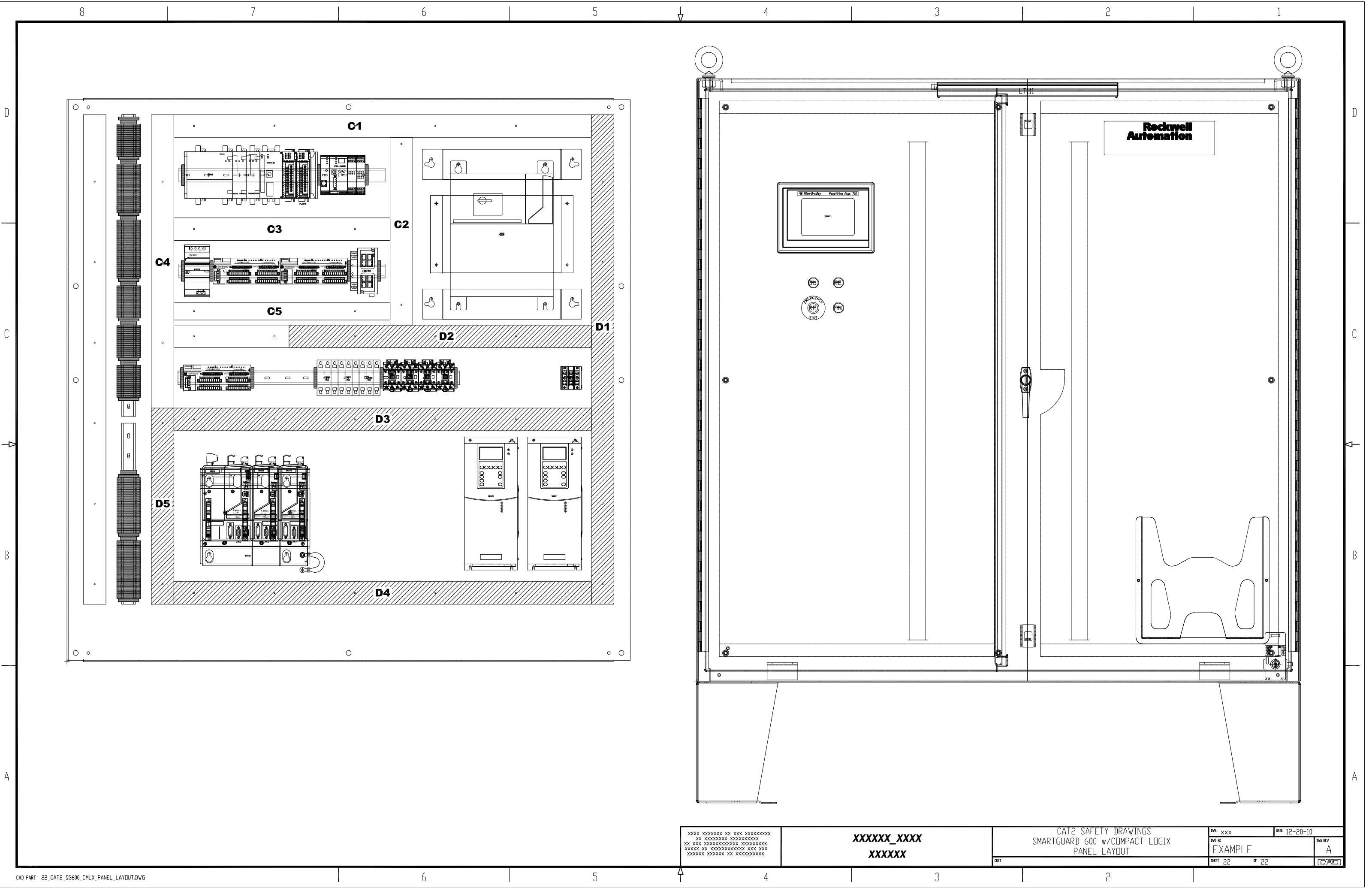
THIS DRAWING IS THE PROPERTY OF  
ROCKWELL AUTOMATION, INC.  
OR ITS SUBSIDIARIES AND MAY NOT BE  
COPIED, USED OR DISCLOSED FOR ANY  
PURPOSE EXCEPT AS AUTHORIZED IN  
WRITING BY ROCKWELL AUTOMATION, INC.

**Rockwell  
Automation**  
Global Manufacturing Solutions

CAT3 SAFETY DRAWINGS  
COMPACT GUARDLOGIX  
PANEL LAYOUT

DWG NO	XX	DATE	XX.XX.XX
DWG REV	EXAMPLE	DWG REV	A
SHEET	22	OF	22
CAD			





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

XXXXXX\_XXXX  
XXXXXX

CAT2 SAFETY DRAWINGS  
SMARTGUARD 600 w/COMPACT LOGIX  
PANEL LAYOUT

DATE 12-20-10	REV A
EXAMPLE	
SHEET 22 OF 22	

CAD