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DIAGRAM LIST (1)

ITEM	DESCRIPTIONS	DWG.	Rev.
1	DIAGRAM LIST	A01	A
2	LEGEND ILLUSTRATION	B01	A
3	SINGLE LINE DIAGRAM	C01	A
4	DC POWER SUPPLY DIAGRAM	C02	A
5	GIS Q01 CT & RCP F01 PROTECTION RELAY CIRCUIT DIAGRAM	D01	A
6	GIS Q02 CT & RCP F02 PROTECTION RELAY CIRCUIT DIAGRAM	D02	A
7	GIS Q03 (MOF CT & PT) CIRCUIT DIAGRAM	D03A	A
8	GIS Q03 CT & RCP IN01 PROTECTION RELAY CIRCUIT DIAGRAM	D03B	A
9	GIS Q03 ( MOF CT / PT / BUS PT) CIRCUIT DIAGRAM	D03C	A
10	GIS Q04 CT & RCP F03 PROTECTION RELAY CIRCUIT DIAGRAM	D04	A
11	GIS Q05 CT & RCP F04 PROTECTION RELAY CIRCUIT DIAGRAM	D05	A
12	87B PROTECTION RELAY CIRCUIT DIAGRAM	DBP	A
13	GIS Q01 DS & ES ON-OFF CONTROL DIAGRAM FOR RCP F01	E01	A
14	GIS Q02 DS & ES ON-OFF CONTROL DIAGRAM FOR RCP F02	E02	A
15	GIS Q03 DS & ES ON-OFF CONTROL DIAGRAM FOR RCP IN01	E03	A
16	GIS Q04 DS & ES ON-OFF CONTROL DIAGRAM FOR RCP F03	E04	A
17	GIS Q05 DS & ES ON-OFF CONTROL DIAGRAM FOR RCP F04	E05	A
18	GIS Q01 CB & DS & ES ON-OFF STATUS INDICATION FOR RCP F01	F01	A
19	GIS Q02 CB & DS & ES ON-OFF STATUS INDICATION FOR RCP F02	F02	A
20	GIS Q03 CB & DS & ES ON-OFF STATUS INDICATION FOR RCP IN01	F03	A
21	GIS Q04 CB & DS & ES ON-OFF STATUS INDICATION FOR RCP F03	F04	A
22	GIS Q05 CB & DS & ES ON-OFF STATUS INDICATION FOR RCP F04	F05	A
23	GIS Q01 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (1)	G01A	A
24	GIS Q01 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (2)	G01B	A
25	GIS Q02 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (1)	G02A	A
26	GIS Q02 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (2)	G02B	A
27	GIS Q03 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (1)	G03A	A
28	GIS Q03 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (2)	G03B	A
29	50+2-1,2 CB ON-OFF COMMAND CONTROL CIRCUIT DIAGRAM (1)	G03C	A
30	50+2-1,2 CB ON-OFF COMMAND CONTROL CIRCUIT DIAGRAM (2)	G03D	A
31	GIS Q04 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (1)	G04A	A
32	GIS Q04 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (2)	G04B	A
33	GIS Q05 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (1)	G05A	A
34	GIS Q05 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (2)	G05B	A
35	87B PROTECTION RELAY TRIP CIRCUIT DIAGRAM	GBP	A
36	ALARM SYSTEM 30RY-1 CIRCUIT DIAGRAM FOR RCP F01	H01	A
37	ALARM SYSTEM 30RY-2 CIRCUIT DIAGRAM FOR RCP F02	H02	A
38	ALARM SYSTEM 30RY-3 CIRCUIT DIAGRAM FOR RCP IN01	H03	A
39	ALARM SYSTEM 30RY-4 CIRCUIT DIAGRAM FOR RCP F03	H04	A
40	ALARM SYSTEM 30RY-5 CIRCUIT DIAGRAM FOR RCP F04	H05	A
41	ALARM SYSTEM WINDOWS DIAGRAM FOR RCP F01 & RCP F02	I01	A
42	ALARM SYSTEM WINDOWS DIAGRAM FOR RCP IN01	I02	A
43	ALARM SYSTEM WINDOWS DIAGRAM FOR RCP F03 & RCP F04	I03	A
44	GIS Q01 CB,DS,ES ON-OFF STATUS FOR SCADA (RET670)	K01A	A
45	GIS Q01 ALARM STATUS FOR RTU	K01B	A
46	RCP F01 PROTECTION RELAY & 43 STATUS FOR RTU	K01C	A
47	GIS Q02 CB,DS,ES ON-OFF STATUS FOR SCADA (RET670)	K02A	A
48	GIS Q02 ALARM STATUS FOR RTU	K02B	A
49	RCP F02 PROTECTION RELAY & 43 STATUS FOR RTU	K02C	A
50	GIS Q03 CB,DS,ES ON-OFF STATUS FOR SCADA (7SL85)	K03A	A

ITEM	DESCRIPTIONS	DWG.	Rev.
51	GIS Q03 ALARM STATUS SIGNAL FOR RTU	K03B	A
52	161KV RCP IN01 RELAY & 43 STATUS FOR RTU	K03C	A
53	GIS Q04 CB,DS,ES ON-OFF STATUS FOR SCADA (RET670)	K04A	A
54	GIS Q04 ALARM STATUS FOR RTU	K04B	A
55	RCP F03 PROTECTION RELAY & 43 STATUS FOR RTU	K04C	A
56	GIS Q05 CB,DS,ES ON-OFF STATUS FOR SCADA (RET670)	K05A	A
57	GIS Q05 ALARM STATUS FOR RTU	K05B	A
58	RCP F04 PROTECTION RELAY & 43 STATUS FOR RTU	K05C	A
59	LIGHTING CIRCUIT DIAGRAM FOR RCP	L01	A
60	MATERIAL LIST	M01	A
61	CONTROL PANEL FRONT VIEW	P01	A
62	CONTROL PANEL BASE CHANNEL VIEW	P02	A
63	CONTROL PANEL TOP CHANNEL VIEW	P03	A
64	CONTROL PANEL SIDE VIEW	P04	A
65	CONTROL PANEL REAR VIEW	P05	A
66	電驛及控制盤製裝規範一)	Q01	A
67	電驛及控制盤製裝規範二)	Q02	A
68	電驛及控制盤製裝規範三)	Q03	A
69	TRIP LOGICAL DIAGRAM FOR RCP F01	X01	A
70	TRIP LOGICAL DIAGRAM FOR RCP F02	X02	A
71	TRIP LOGICAL DIAGRAM FOR RCP IN01	X03	A
72	TRIP LOGICAL DIAGRAM FOR RCP F03	X04	A
73	TRIP LOGICAL DIAGRAM FOR RCP F04	X05	A
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			Project	VENA ENERGY	Approved by	Date	2021-06-18	Title	DIAGRAM LIST	Doc. des.	DWG. NO.	VENA- A01
				161KV GIS S/S PROJECT	Checked by	Date	2021-06-18			Resp. dept.	Scale	Lang.
For Approval	2021-07-08	A	Customer	韋能台西	Prepared by	Date	2021-06-18	台灣日立電網股份有限公司		Doc. No.		Sheet 1
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua							Cont. ~

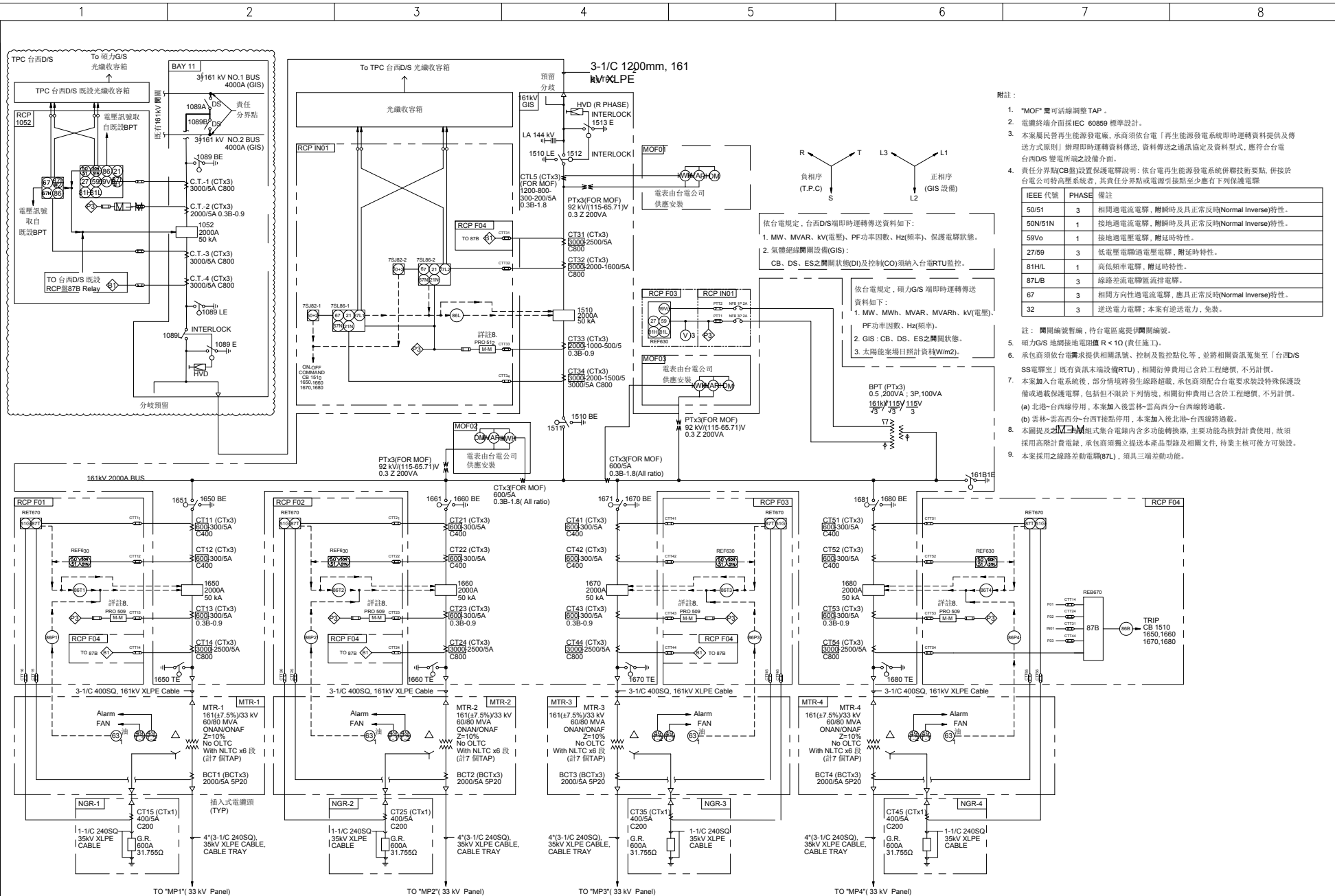
1 2 3 4 5 6 7 8

ITEM	SYMBOLS	DESCRIPTION
1	21	DISTANCE RELAY
2	67	DIRECTIVE OVER CURREN RELAY
3	50/51 50N/51N	OVER CURRENT RELAY
4	81H/L	FREQUENCY RELAY
5	50N/51N	GROUND OVER CURRENT RELAY
6	87T	TRANSFORMER DIFFERENTIAL RELAY
7	30	ANNUNCIATOR RELAY
8	87B	BUS DIFFERENTIAL RELAY
9	27/59	COMBINED OVERVOLTAGE AND UNDERVOLTAGE RELAY
10	86B	BUS LOCKOUT RELAY
11	86L	LINE LOCKOUT RELAY
12	86T	TRANSFORMER LOCKOUT RELAY
13	59Vo 59G	GROUND OVER VOLTAGE RELAY
14	V	VOLTAGE METER
15	V V/TD	VOLTAGE TRANSDUCER
16	A	AMPER METER
17	A A/TD	CURRENT TRANSDUCER

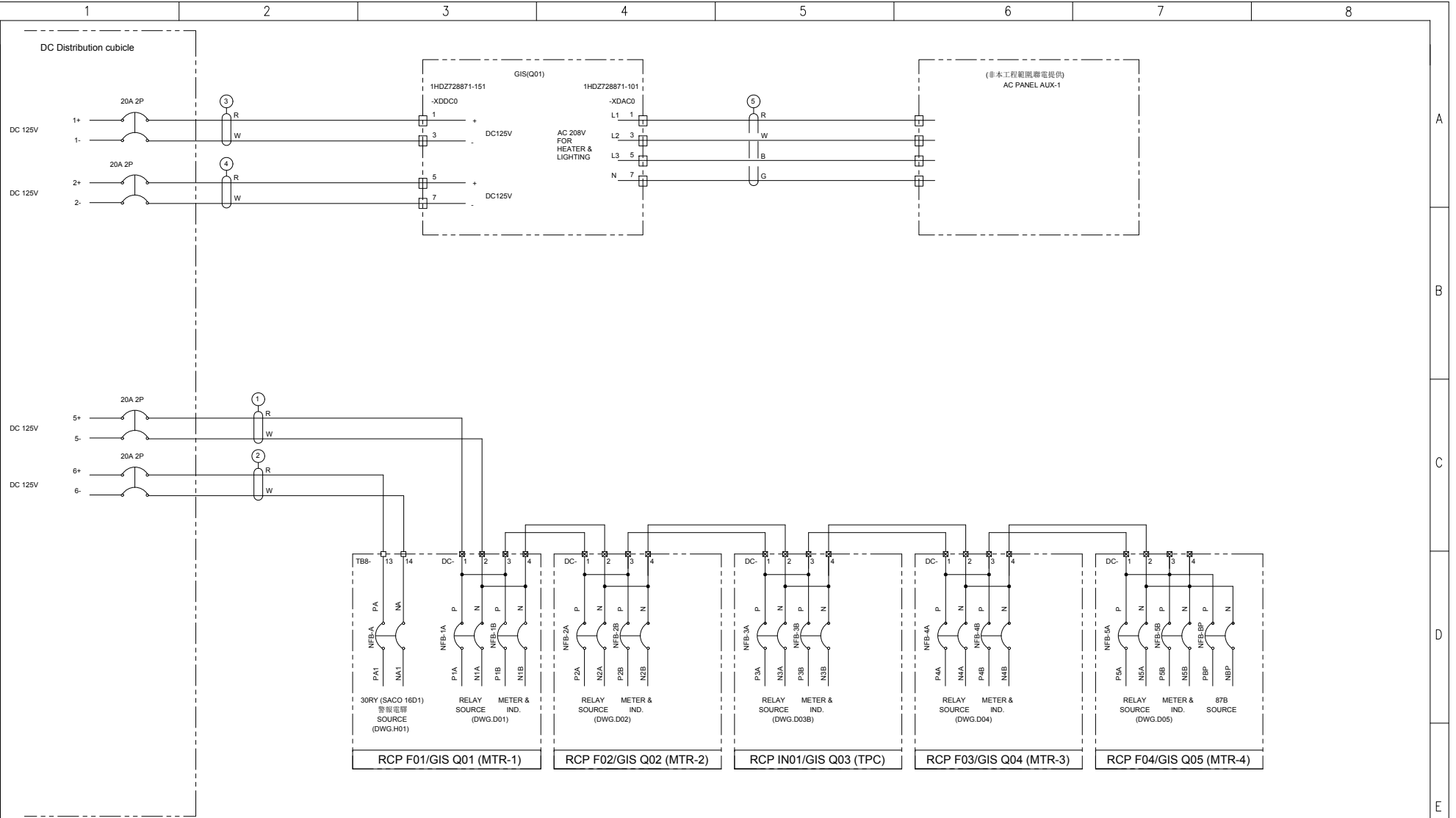
ITEM	SYMBOLS	DESCRIPTION
18	WH	WH METER
19	W	W METER
20	W	WATT TRANSDUCER
21	KVAR	VAR METER
22	PF	POWER FACTOR METER
23	PF	PF TRANSDUCER
24	M	MOTOR OPERATED EARTHING SWITCH
25	T	MANAUL OPERATED EARTHING SWITCH
26		CURRENT TRANSFORMER
27		BUS PT
28		POWER TRANSFORMER
29		CTT
30		EARTHING
31		NORMAL OPEN CONTACT
32		NORMAL CLOSE CONTACT
33	TB1	WIRING TERMINAL
34	1 6/C 3.5	WIRE NUMBER AND SIZE

ITEM	SYMBOLS	DESCRIPTION
35	BZ	BUZZER
36		LIMIT SWITCH
37		D FUSE
38	TC	TRIPPING COIL
39	P	WIRING COIL
40	QO	161KV GCB
41	M	MOTOR OPERATED DISCONNECTING SWITCH
42	KVAR	VAR TRANSOU CER
43		INDICATING LAMP
44		PUSH BUTTON SWITCH
45		PTT
46	WVAR	W AND VAR TRANSDUCER
47	32	POWER RELAY
48	85	PILOT WIRE RELAY
49	51G	GROUND OVER CURRENT RELAY
50	43	切換開關
51	87L	LINE DIFFERENTIAL RELAY

			Project		VENA ENERGY	Approved by	Date	Title	Doc. des.	DWG. NO. VENA-B01					
			161KV GIS S/S PROJECT			Jeff Lu	2021-06-18			LEGEND ILLUSTRATION	Resp. dept.	Scale	Lang.		
For Approval	2021-07-08	A	Customer 韋能台西			Checked by	Date	台灣日立電網股份有限公司	Doc. No.					Sheet	1
Issued for	Date	Rev.	Derived fm	Replaces		Jeff Lu	2021-06-18			Chuan Hua	2021-06-18	Cont.	~		



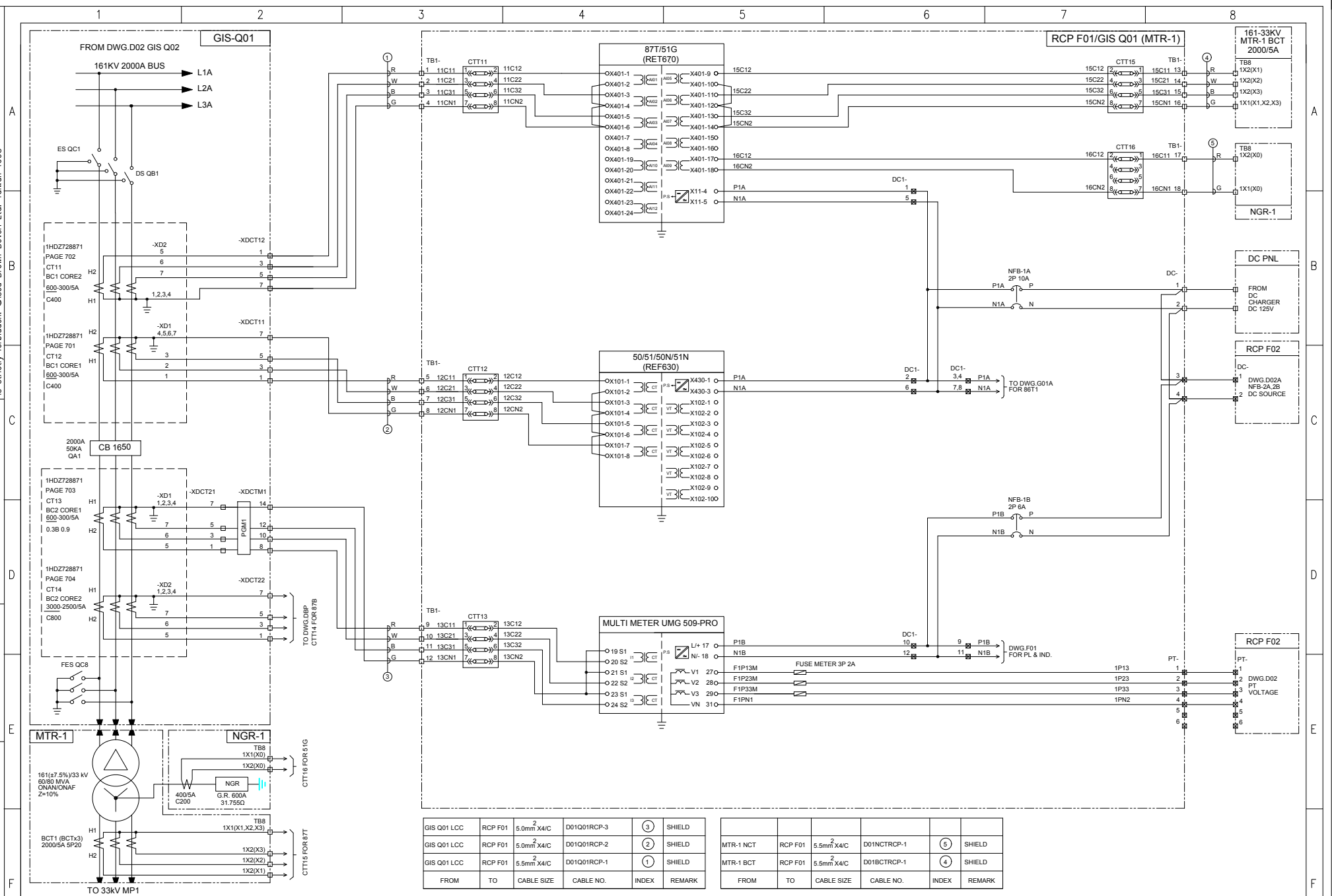
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AC PANEL	GIS Q01	5.5mm <sup>2</sup> X4/C	C02ACPGIS-1	⑤	
DC PANEL	GIS Q01	5.5mm <sup>2</sup> X4/C	C02DCPGIS-2	④	
DC PANEL	GIS Q01	5.5mm <sup>2</sup> X4/C	C02DCPGIS-1	③	
DC PANEL	RCP F01	5.5mm <sup>2</sup> X4/C	C02DCPRCP-2	②	
DC PANEL	RCP F01	5.5mm <sup>2</sup> X4/C	C02DCPRCP-1	①	
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

Project			VENA ENERGY		Approved by		Date		Title		Doc. des.		DWG. NO. VENA-C02	
			161KV GIS S/S PROJECT		Checked by		Date		DC POWER SUPPLY DIAGRAM		Resp. dept.		Scale	Lang.
For Approval			Customer 韋能台西		Prepared by		Date		台灣日立電網股份有限公司		Doc. No.		Sheet 1	Cont. ~
Issued for			Date		Rev.		Derived fm		Replaces					

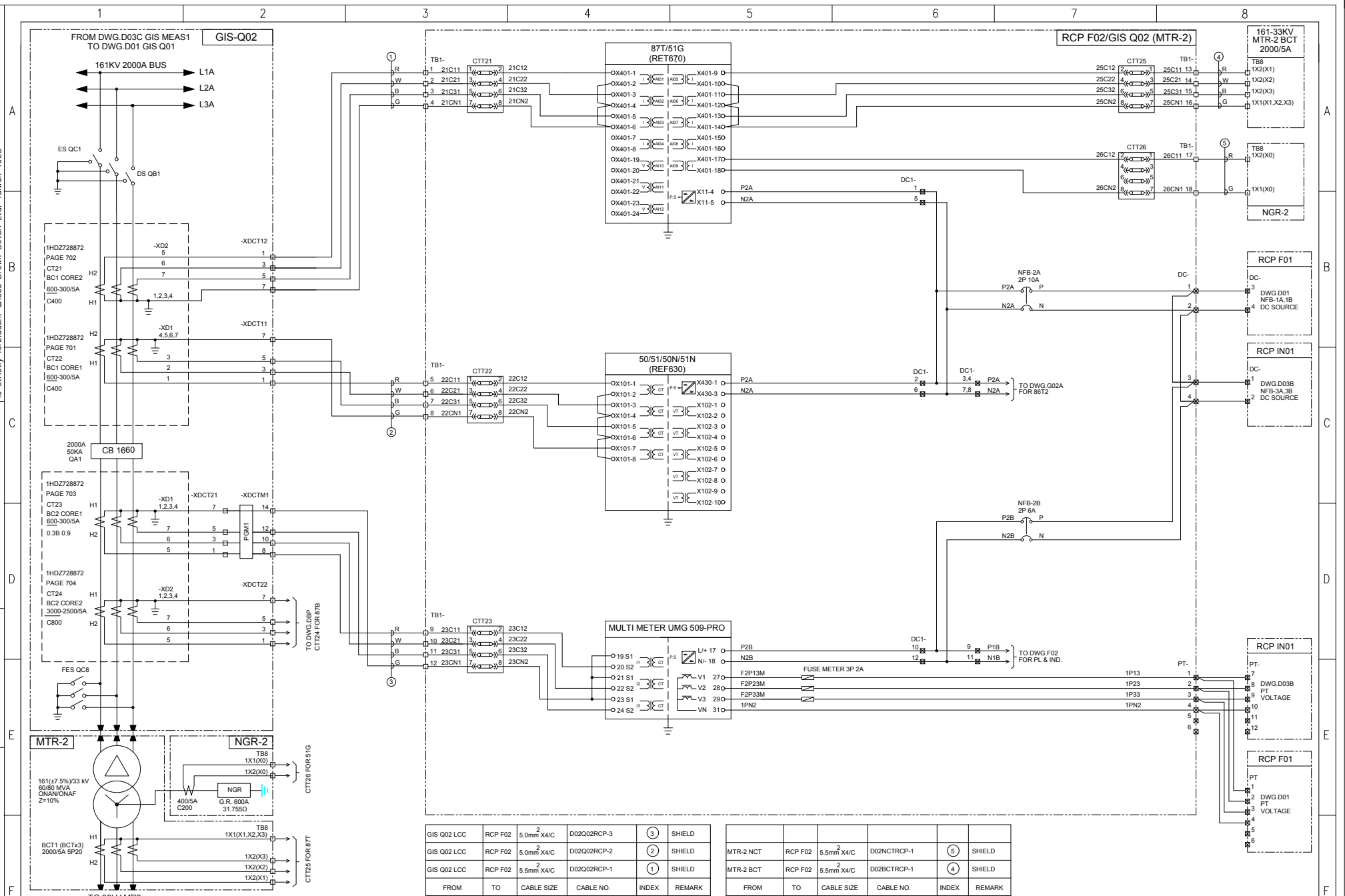
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GIS Q01 LCC	RCP F01	5.0mm <sup>2</sup> X4/C	D01Q01RCP-3	③	SHIELD
GIS Q01 LCC	RCP F01	5.0mm <sup>2</sup> X4/C	D01Q01RCP-2	②	SHIELD
GIS Q01 LCC	RCP F01	5.5mm <sup>2</sup> X4/C	D01Q01RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

MTR-1 NCT	RCP F01	2 5.5mm X4/C	D01NCTRCP-1	⑤	SHIELD
MTR-1 BCT	RCP F01	2 5.5mm X4/C	D01BCTRCP-1	④	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

			Project			VENA ENERGY	Approved by	Date	Title	GIS Q01 CT & RCP F01 PROTECTION RELAY CIRCUIT DIAGRAM	Doc. des.	DWG. NO. VENA-D01	
			161KV GIS S/S PROJECT				Jeff Lu	2021-06-18				Checked by	Date
For Approval	2021-07-08	A	Customer			韋能台西	Prepared by	Date	台灣日立電網股份有限公司	Doc. No.		Sheet 1	
Issued for	Date	Rev.	Derived fm	Replaces		Chuan Hua	2021-06-18					Cont.	~

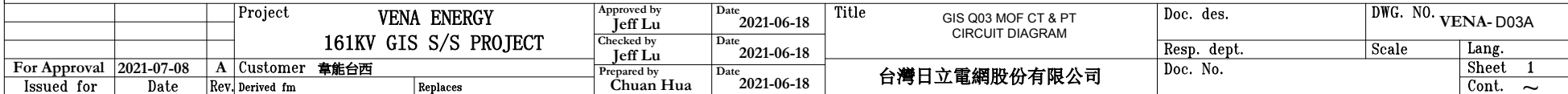


GIS Q02 LCC	RCP F02	5.0mm <sup>2</sup> X4/C	D02Q02RCP-3	③	SHIELD
GIS Q02 LCC	RCP F02	5.0mm <sup>2</sup> X4/C	D02Q02RCP-2	②	SHIELD
GIS Q02 LCC	RCP F02	5.5mm <sup>2</sup> X4/C	D02Q02RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

MTR-2 NCT	RCP F02	5.5mm <sup>2</sup> X4/C	D02NCTRCP-1	⑤	SHIELD
MTR-2 BCT	RCP F02	5.5mm <sup>2</sup> X4/C	D02BCTRCP-1	④	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

			Project		VENA ENERGY	Approved by	Date	Title	GIS Q02 CT & RCP F02 PROTECTION RELAY CIRCUIT DIAGRAM	Doc. des.	DWG. NO. VENA-D02	
			161KV GIS S/S PROJECT			Checked by	Date			Resp. dept.	Scale	Lang.
For Approval	2021-07-08	A	Customer 韋能台西			Prepared by	Date	台灣日立電網股份有限公司	Doc. No.		Sheet 1	
Issued for	Date	Rev.	Derived fm	Replaces		Chuan Hua	2021-06-18				Cont.	~

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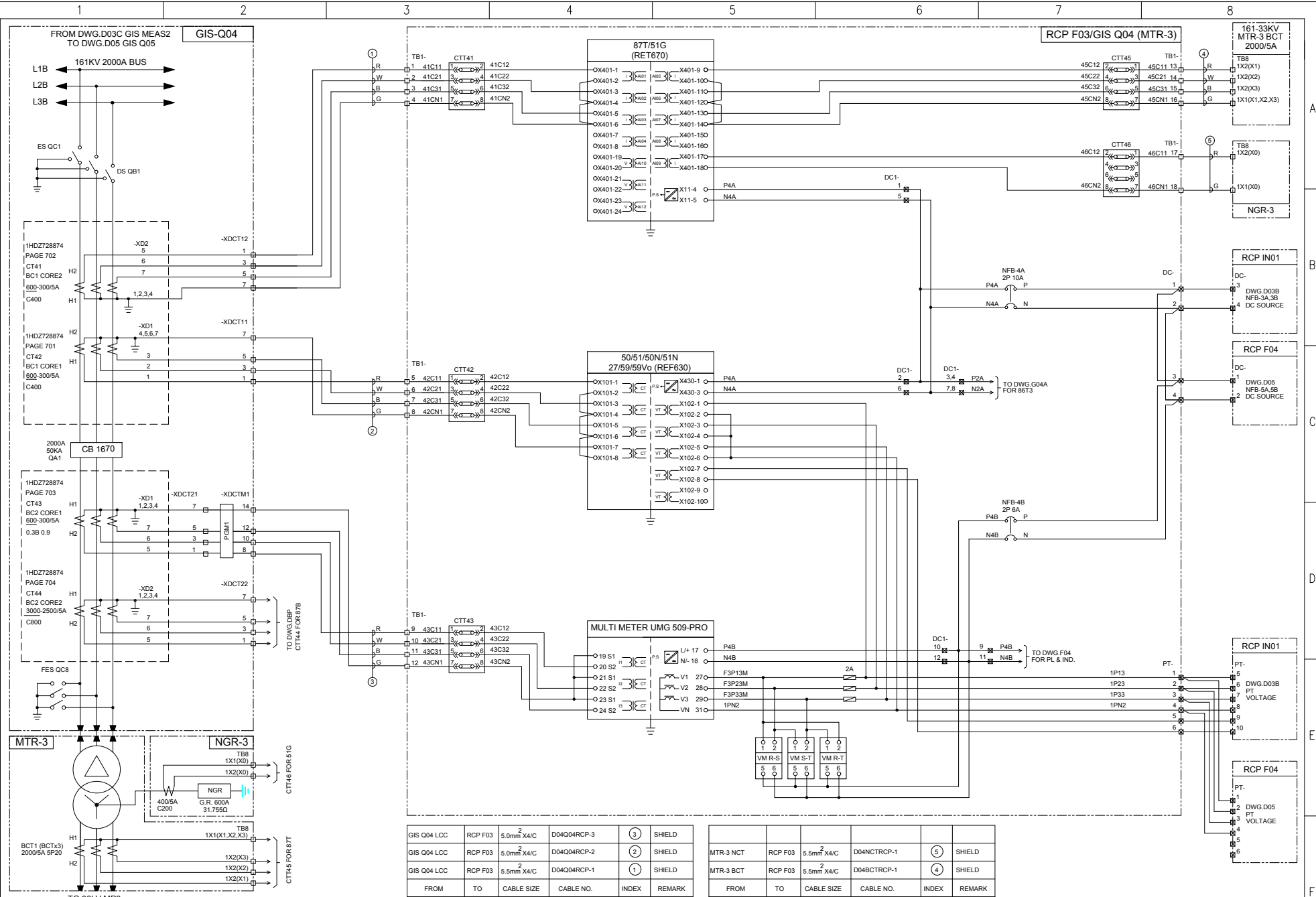
FROM  
DWG. -  
D03C  
BUS PT

			Project			VENA ENERGY	Approved by	Date	Title	GIS Q03 CT & RCP IN01 PROTECTION RELAY CIRCUIT DIAGRAM	Doc. des.	DWG. NO. VENA-D03B	
						161KV GIS S/S PROJECT	Checked by	Date					
							Jeff Lu	2021-06-18	台灣日立電網股份有限公司		Resp. dept.	Scale	Lang.
For Approval	2021-07-08	A	Customer 韋能台西				Prepared by	Date			Doc. No.	Sheet 1	
Issued for	Date	Rev.	Derived fm	Replaces		Chuan Hua	2021-06-18	Cont. ~					

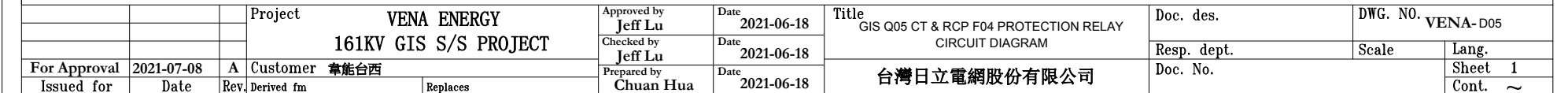


			Project		Approved by	Date	Title	Doc. des.	DWG. NO.	
			VENA ENERGY		Jeff Lu	2021-06-18			GIS Q03 MOF CT / PT / BUS PT CIRCUIT DIAGRAM	VENA-D03C
			161KV GIS S/S PROJECT		Checked by	Date	Resp. dept.	Scale		
					Jeff Lu	2021-06-18			Doc. No.	Sheet
For Approval	2021-07-08	A	Customer	韋能台西	Prepared by	Date	台灣日立電網股份有限公司			
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua	2021-06-18			Cont.	~

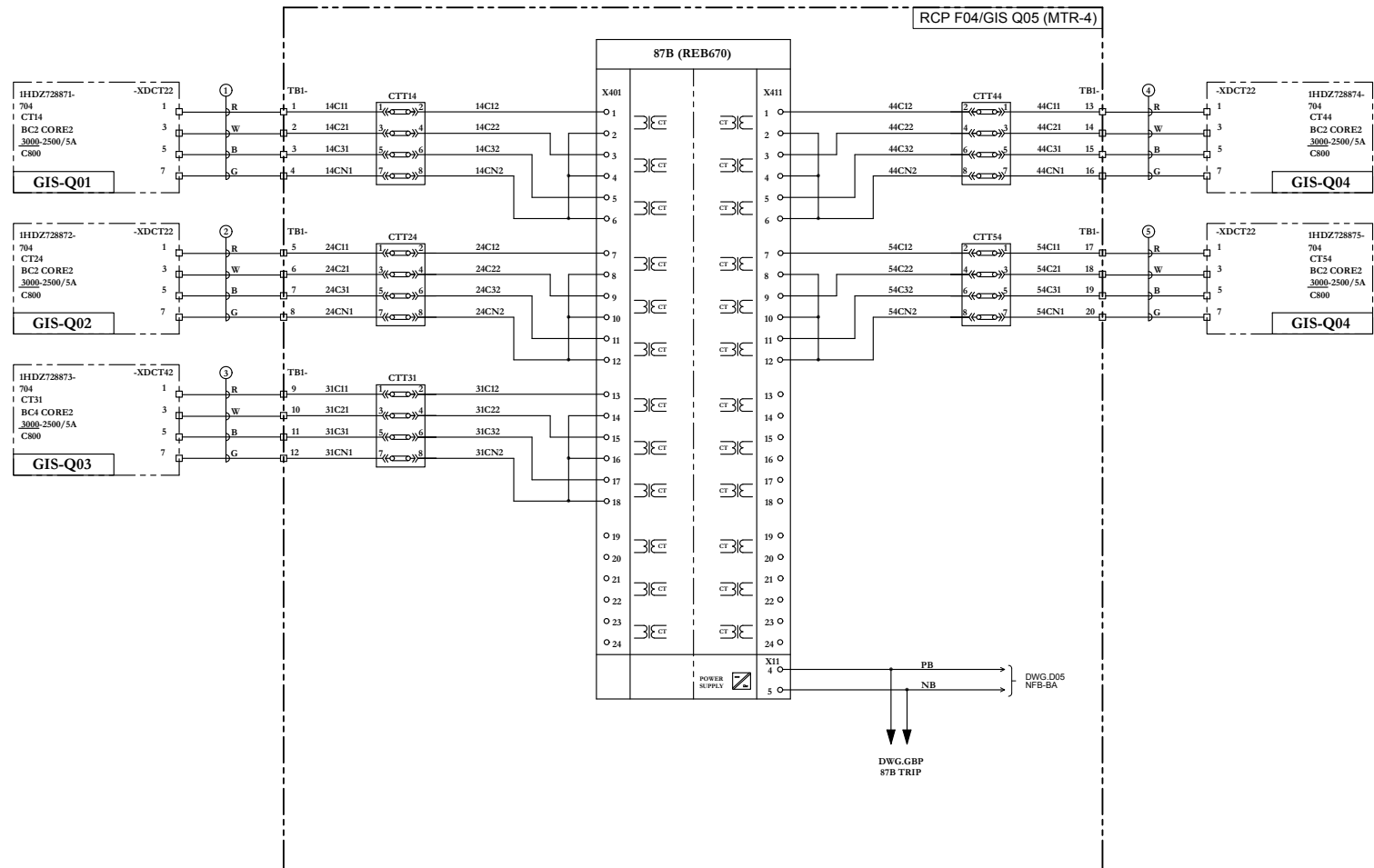
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Project		VENA ENERGY		Approved by		Title		Doc. des.		DWG. NO. VENA-D04	
		161KV GIS S/S PROJECT		Jeff Lu		2021-06-18		G05 Q05 CT & RCP F04 PROTECTION RELAY			
				Checked by		Date		CIRCUIT DIAGRAM			
				Jeff Lu		2021-06-18					
				Prepared by		Date					
				Chuan Hua		2021-06-18		台灣日立電網股份有限公司			
For Approval		2021-07-08		A Customer		韋能台西		Doc. No.		Scale	
Issued for		Date		Rev.		Derived fm				Lang.	
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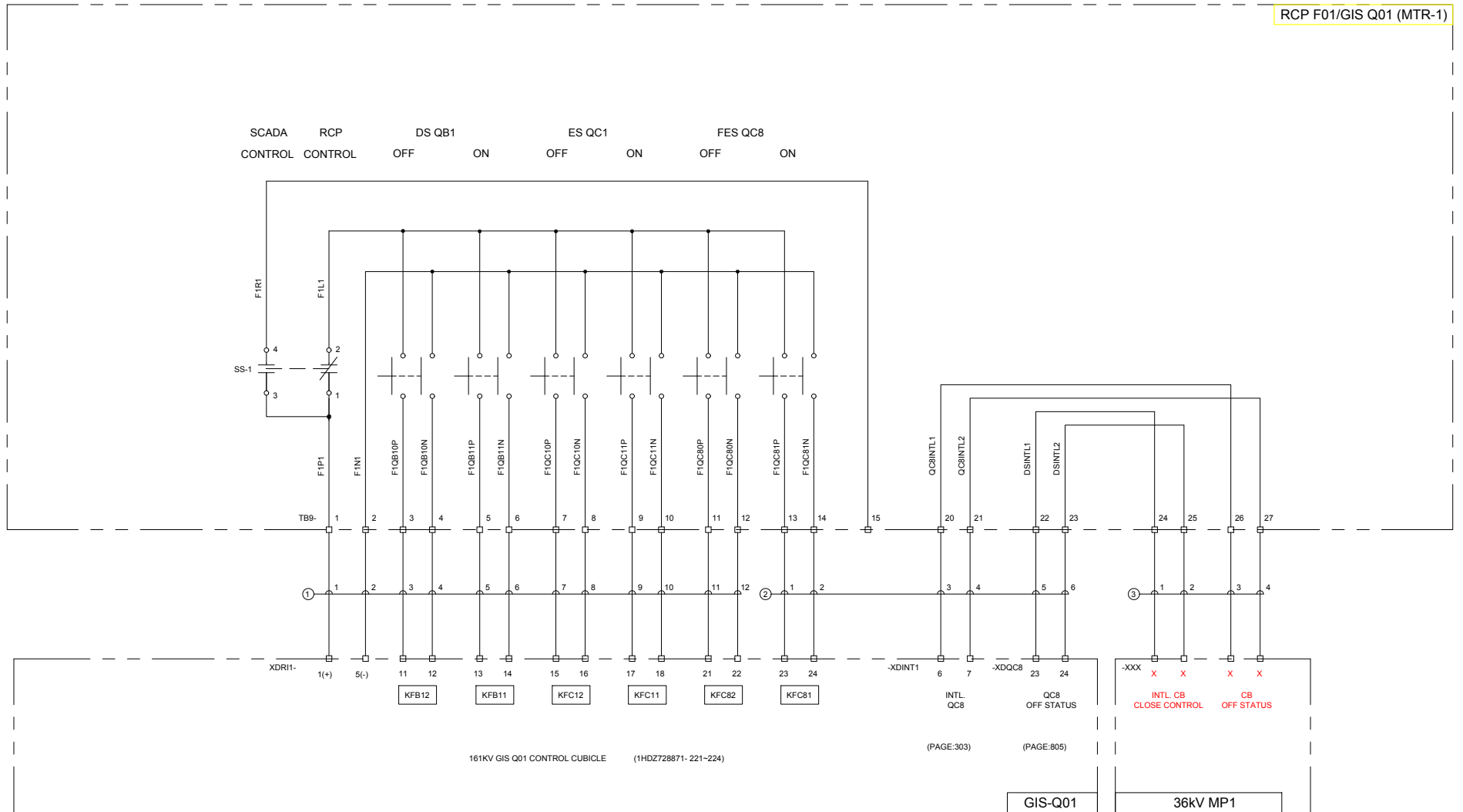
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GIS Q05 LCC	RCP	5.5mm <sup>2</sup> X4/C	DBPQ05RCP-1	⑤	SHIELD
GIS Q04 LCC	RCP	5.5mm <sup>2</sup> X4/C	DBPQ04RCP-1	④	SHIELD
GIS Q03 LCC	RCP	5.5mm <sup>2</sup> X4/C	DBPQ03RCP-1	③	SHIELD
GIS Q02 LCC	RCP	5.0mm <sup>2</sup> X4/C	DBPQ02RCP-1	②	SHIELD
GIS Q01 LCC	RCP	5.5mm <sup>2</sup> X4/C	DBPQ01RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

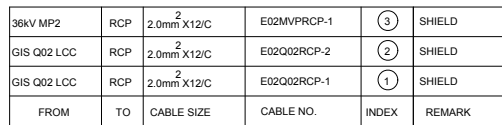
			Project			Approved by	Date	Title	87B PROTECTION RELAY CIRCUIT DIAGRAM	Doc. des.	DWG. NO.		
			VENA ENERGY			Jeff Lu	2021-06-18					VENA-DBP	
			161KV GIS S/S PROJECT			Checked by	Date	台灣日立電網股份有限公司		Resp. dept.	Scale	Lang.	
For Approval	2021-07-08	A	Customer 韋能台西			Prepared by	Date			Doc. No.			Sheet 1
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua	2021-06-18						Cont. ~	

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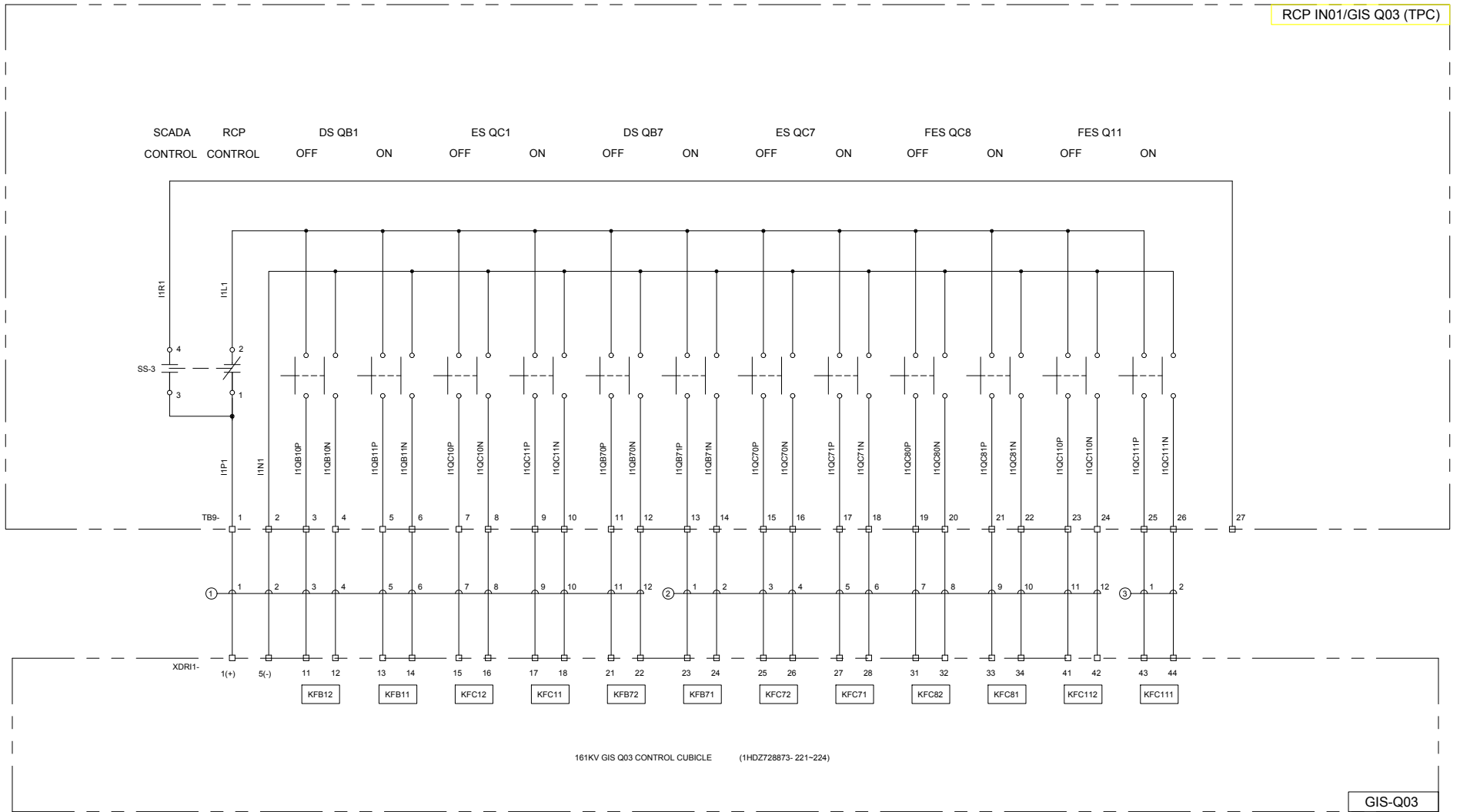
36kv MP1	RCP	2.0mm <sup>2</sup> X12/C	E01MVPRCP-1	③	SHIELD
GIS Q01 LCC	RCP	2.0mm <sup>2</sup> X12/C	E01Q01RCP-2	②	SHIELD
GIS Q01 LCC	RCP	2.0mm <sup>2</sup> X12/C	E01Q01RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

		Project		VENA ENERGY		Approved by		Date		Title		Doc. des.		DWG. NO. VENA-E01	
				161KV GIS S/S PROJECT		Checked by		Date		GIS Q01 DS & ES ON-OFF		Resp. dept.		Scale	
For Approval		2021-07-08		A Customer 韋能台西		Prepared by		Date		台灣日立電網股份有限公司		Doc. No.		Sheet 1	
Issued for		Date		Rev. Derived fm		Replaces		2021-06-18						Cont. ~	

			Project			Approved by	Date	Title	Doc. des.	DWG. NO.					
			VENA ENERGY			Jeff Lu	2021-06-18			GIS Q02 DS & ES ON-OFF CONTROL DIAGRAM FOR RCP F02		VENA-E02			
			161KV GIS S/S PROJECT			Checked by	Date	台灣日立電網股份有限公司	Resp. dept.			Scale	Lang.		
For Approval	2021-07-08	A	Customer 韋能台西			Jeff Lu	2021-06-18			Doc. No.					Sheet 1
Issued for	Date	Rev.	Derived fm	Replaces	Prepared by	Date	Chuan Hua								

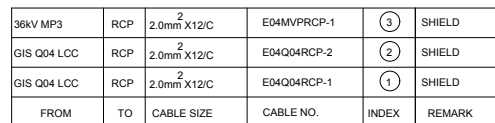
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GIS Q03 LCC	RCP	2.0mm <sup>2</sup> X12/C	E03Q03RCP-3	③	SHIELD
GIS Q03 LCC	RCP	2.0mm <sup>2</sup> X12/C	E03Q03RCP-2	②	SHIELD
GIS Q03 LCC	RCP	2.0mm <sup>2</sup> X12/C	E03Q03RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

			Project VENA ENERGY 161KV GIS S/S PROJECT			Approved by Jeff Lu	Date 2021-06-18	Title GIS Q03 DS & ES ON-OFF CONTROL DIAGRAM FOR RCP IN01	Doc. des.	DWG. NO. VENA-E03		
						Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale	Lang.	
For Approval	2021-07-08	A	Customer 韋能台西			Prepared by	Date	台灣日立電網股份有限公司	Doc. No.	Sheet 1		
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua	2021-06-18	Cont. ~					

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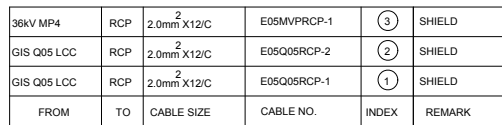


			Project			Approved by	Date	Title	Doc. des.	DWG. NO.	
			VENA ENERGY			Jeff Lu	2021-06-18			GIS Q04 DS & ES ON-OFF CONTROL DIAGRAM FOR RCP F03	
			161KV GIS S/S PROJECT			Checked by	Date				
						Jeff Lu	2021-06-18				
For Approval	2021-07-08	A	Customer 韋能台西			Prepared by	Date	台灣日立電網股份有限公司	Doc. No.		
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua	2021-06-18					Cont.



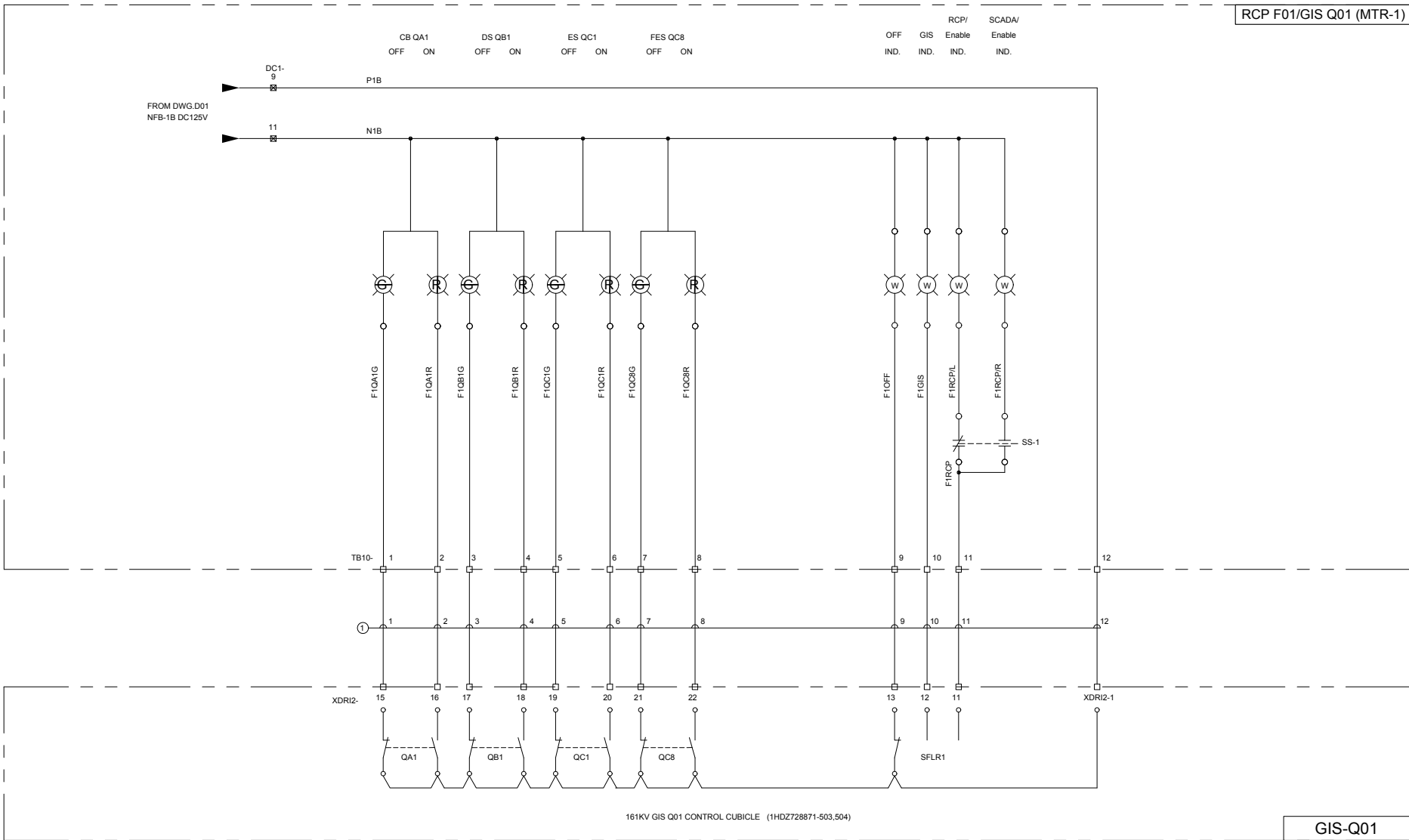
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			Project			VENA ENERGY	Approved by	Date	Title	GIS Q05 DS & ES ON-OFF CONTROL DIAGRAM FOR RCP F04	Doc. des.	DWG. NO. VENA-E05	
						161KV GISA S/S PROJECT	Checked by	Date				Resp. dept.	Scale
For Approval	2021-07-08	A	Customer 韋能台西				Prepared by	Date			台灣日立電網股份有限公司	Doc. No.	Sheet 1
Issued for	Date	Rev.	Derived fm	Replaces			Chuan Hua	2021-06-18	Cont. ~				

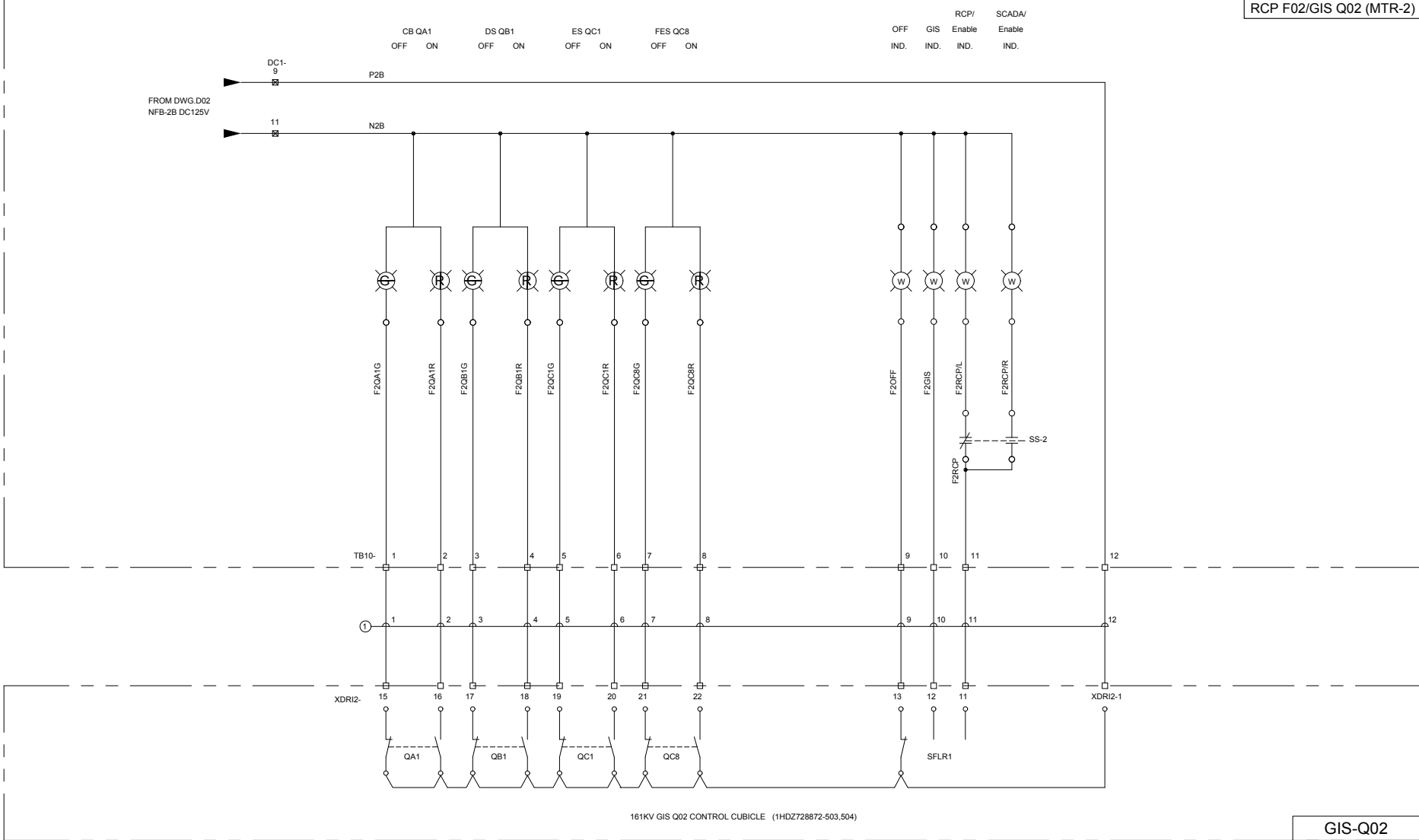
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GIS Q01 LOC	RCP	2.0mm <sup>2</sup> X16/C	F01Q01RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

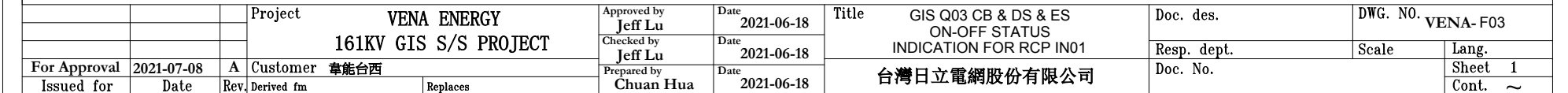
Project			VENA ENERGY			Approved by		Date		Title		Doc. des.		DWG. NO. VENA-F01	
			161KV GIS S/S PROJECT			Checked by		Date		ON-OFF STATUS		Resp. dept.		Scale	
For Approval			Customer 韋能台西			Prepared by		Date		台灣日立電網股份有限公司		Doc. No.		Sheet 1	
Issued for			Date			Rev.		Derived fm		Replaces				Cont. ~	

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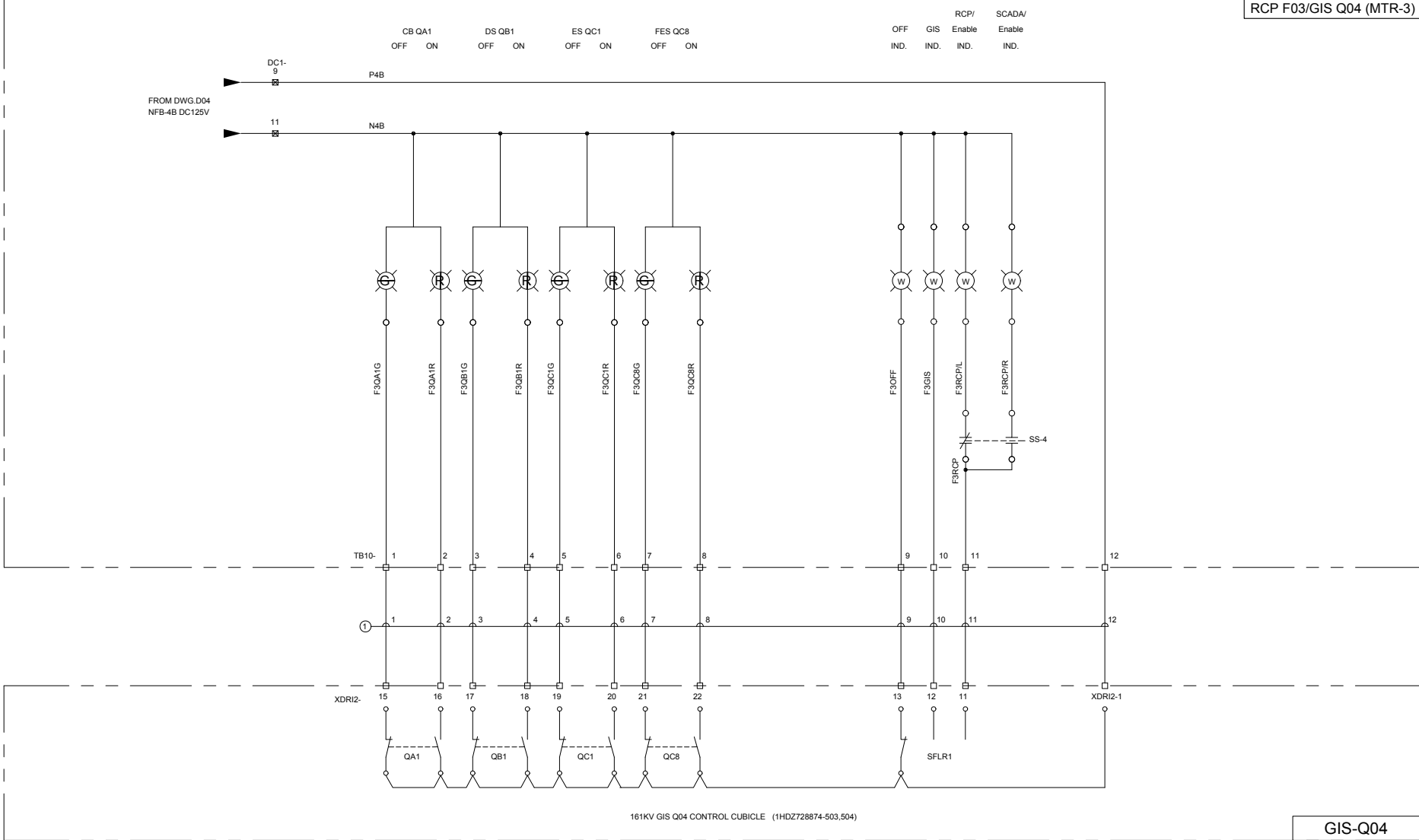


GIS Q02 LOC	RCP	2.0mm <sup>2</sup> X16/C	F02Q02RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

Project			VENA ENERGY			Approved by		Date		Title		Doc. des.		DWG. NO. VENA-F02	
161KV GIS S/S PROJECT			Checked by			Jeff Lu		2021-06-18		GIS Q02 CB & DS & ES		Resp. dept.		Scale	
Customer			Date			Jeff Lu		2021-06-18		ON-OFF STATUS		Doc. No.		Lang.	
Rev.			Prepared by			Chuan Hua		Date		台灣日立電網股份有限公司		Sheet		1	
Derived fm			Replaces									Cont.		~	

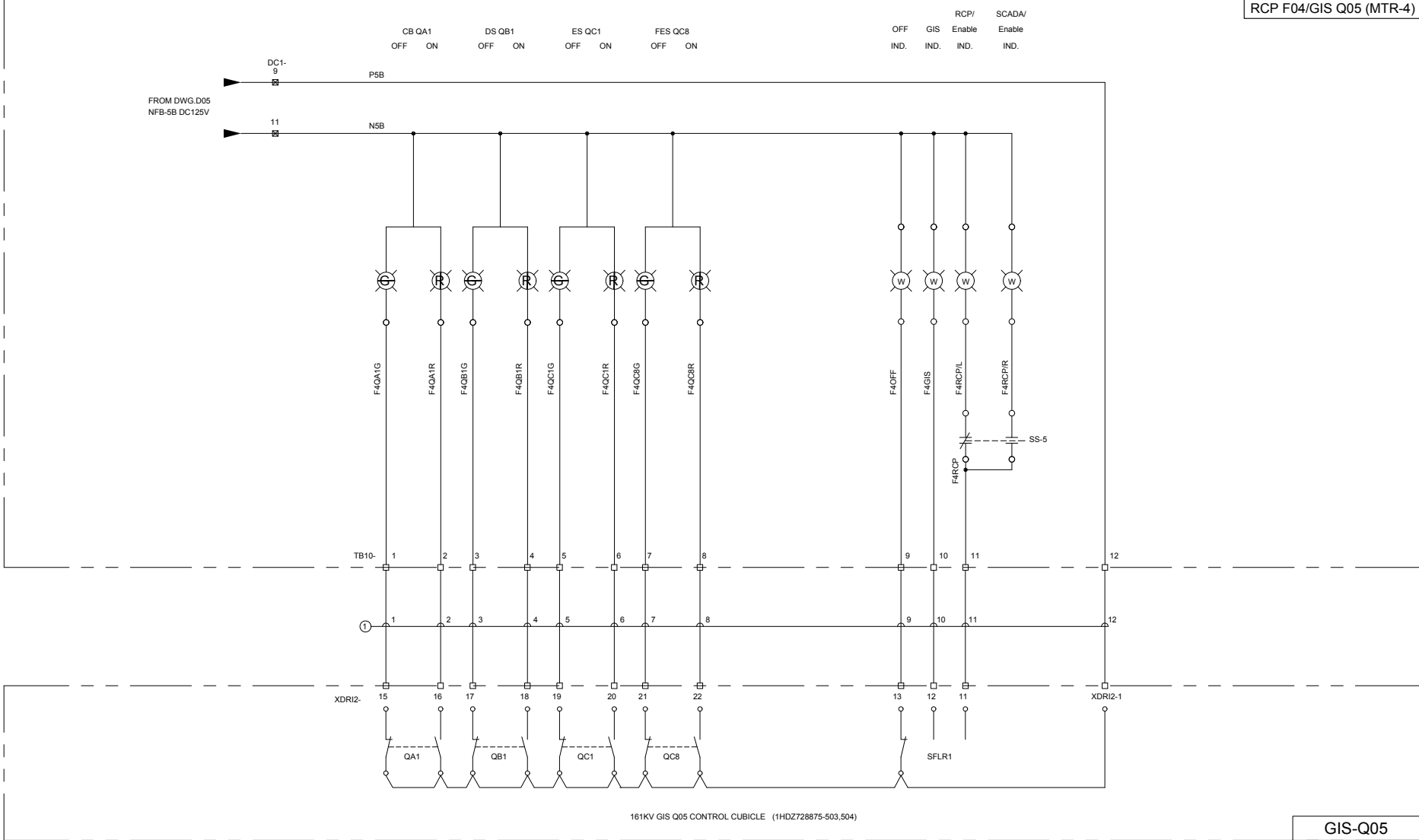
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GIS Q04 LOC	RCP	2.0mm <sup>2</sup> X16/C	F04Q04RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

Project			VENA ENERGY			Approved by		Date		Title		Doc. des.		DWG. NO. VENA-F04	
			161KV GIS S/S PROJECT			Checked by		Date		ON-OFF STATUS		Resp. dept.		Scale	
For Approval			Customer 韋能台西			Prepared by		Date		台灣日立電網股份有限公司		Doc. No.		Sheet 1	
Issued for			Date			Rev.		Derived fm		Replaces				Cont. ~	

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GIS Q05 LOC	RCP	2.0mm <sup>2</sup> X16/C	F05Q05RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

Project			VENA ENERGY			Approved by		Date		Title		Doc. des.		DWG. NO. VENA-F05	
			161KV GIS S/S PROJECT			Checked by		Date		ON-OFF STATUS		Resp. dept.		Scale	
For Approval			Customer 韋能台西			Prepared by		Date		台灣日立電網股份有限公司		Doc. No.		Sheet 1	
Issued for			Date			Rev.		Derived fm		Replaces				Cont. ~	

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			Project			Approved by	Date	Title	Doc. des.	DWG. NO.	
			VENA ENERGY			Jeff Lu	2021-06-18		GIS Q01 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (1)		VENA- G01A
			161KV GIS S/S PROJECT			Checked by	Date	Resp. dept.		Scale	Lang.
For Approval	2021-07-08	A	Customer 韋能台西			Prepared by	Date	台灣日立電網股份有限公司	Doc. No.	Sheet 1	
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua	2021-06-18			Cont. ~		

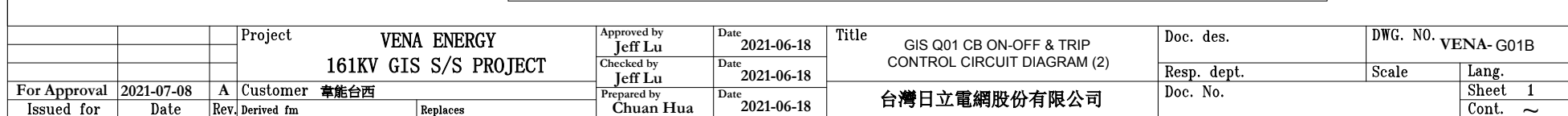
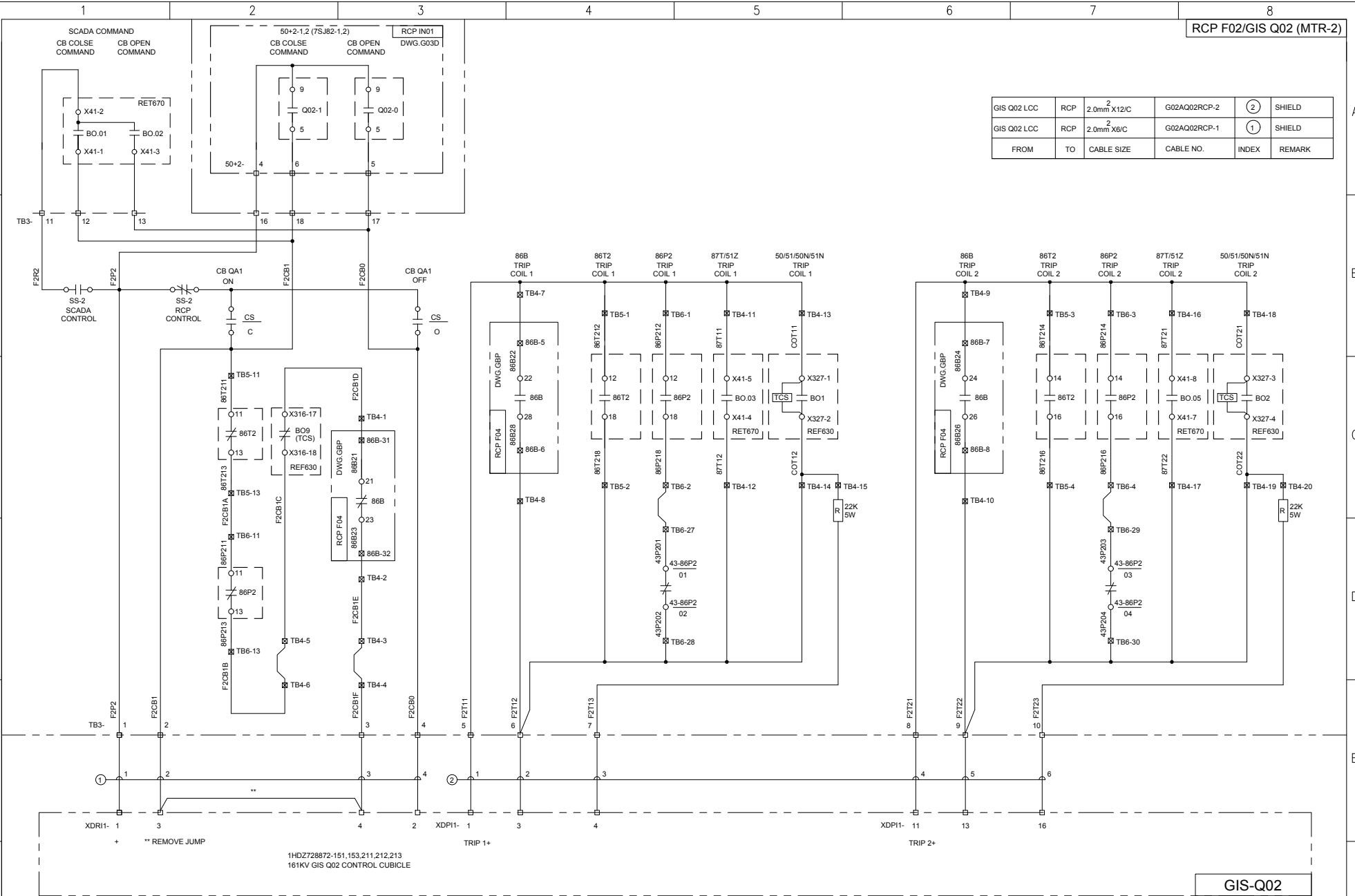
[illegible]

Figure 10 is a single-line diagram of the 36 kV bus and line. The diagram shows a 36 kV bus with two breakers, -XC30 305A and -XC30 351D. The bus is connected to a line with various components including breakers (86P144, 86P111, 86P115, 86P121, 86P125), transformers (43P107, 43P108), and a 43-86P1 ON switch. The line is labeled 'TO 86T1 TB5-19'.

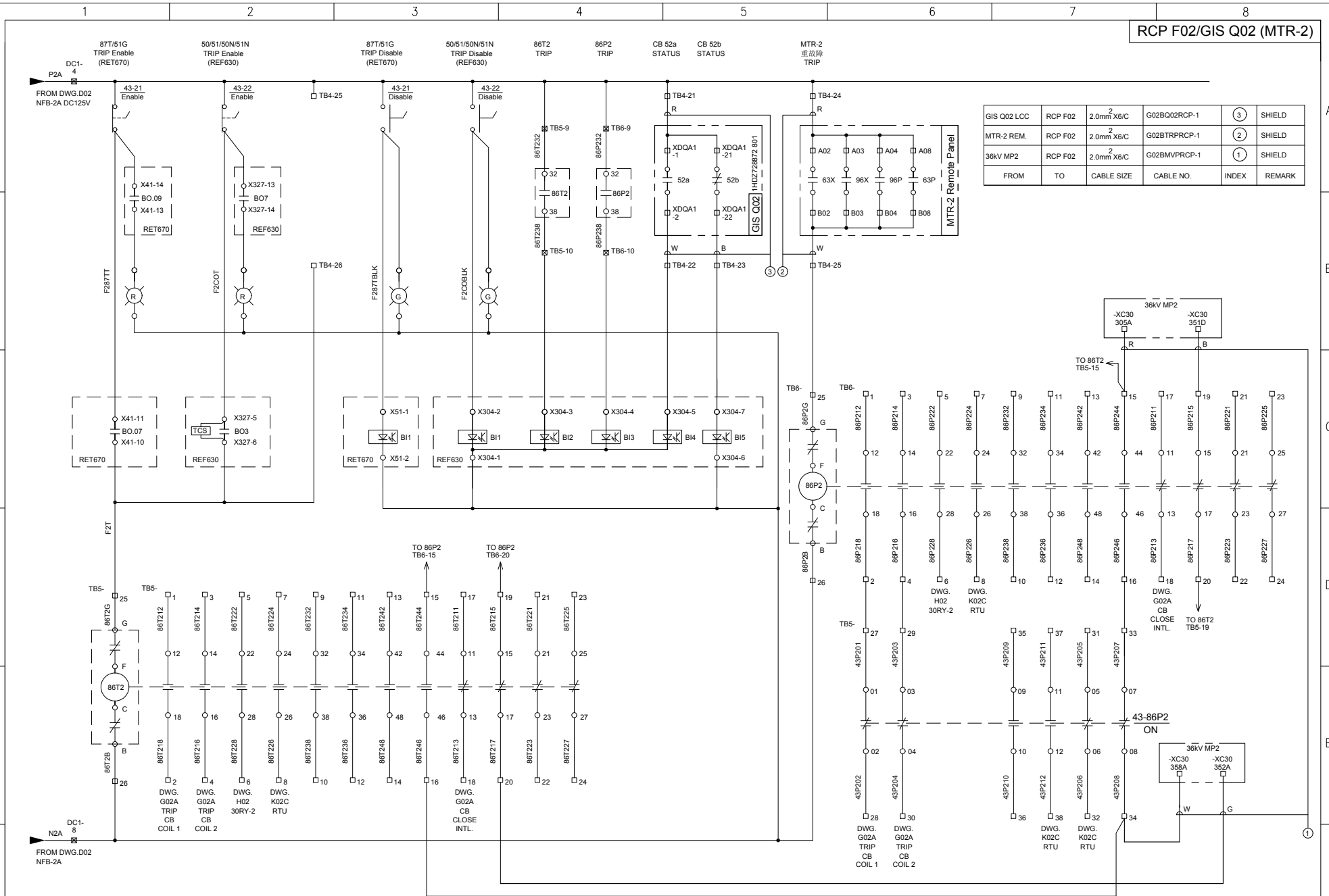


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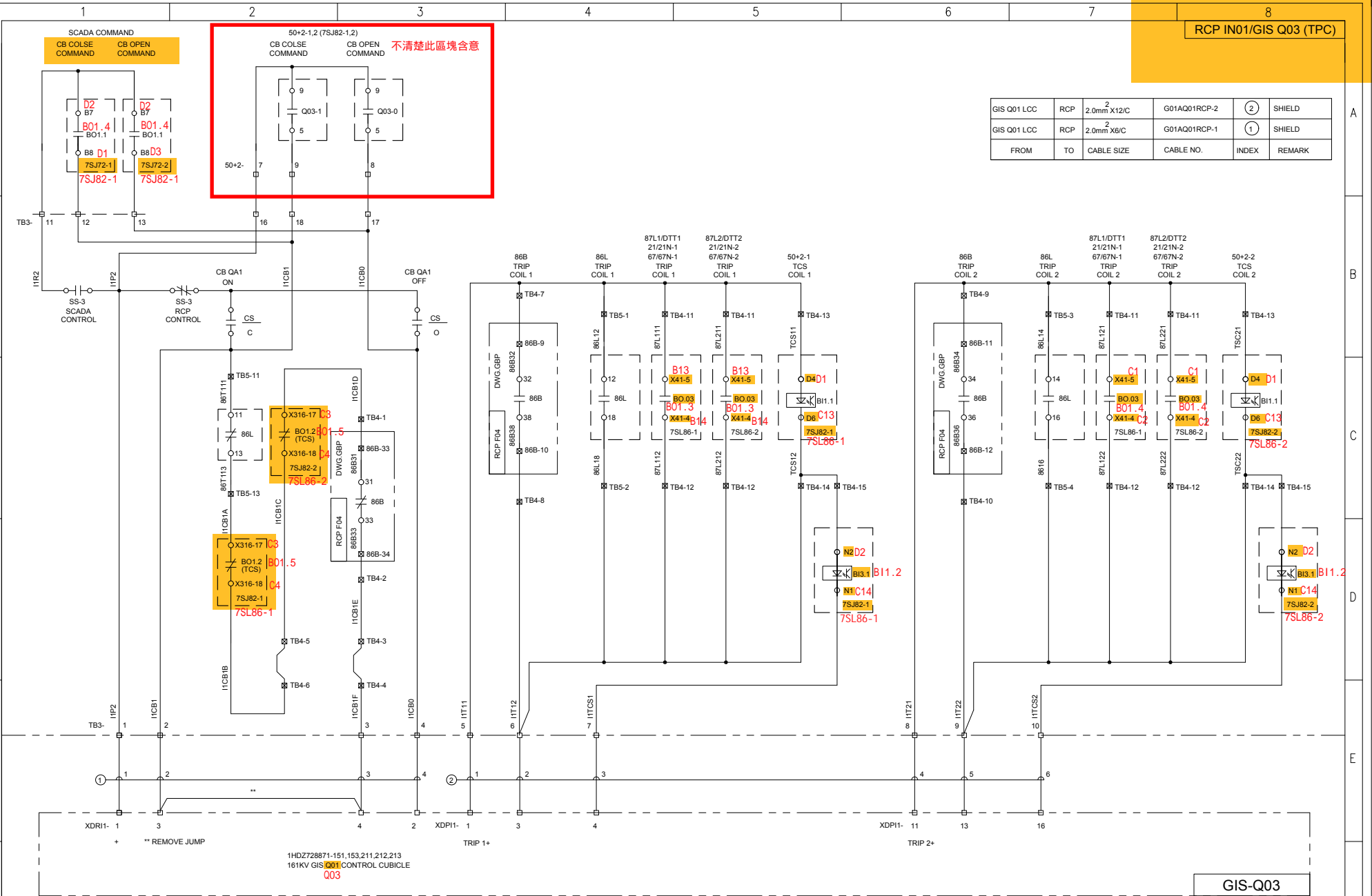


Project			VENA ENERGY		Approved by		Date		Title		Doc. des.		DWG. NO. VENA- G02A	
			161KV GIS S/S PROJECT		Jeff Lu		2021-06-18		GIS Q02 CB ON-OFF & TRIP					
					Checked by		Date		CONTROL CIRCUIT DIAGRAM (1)		Resp. dept.		Scale	
For Approval			2021-07-08		A Customer		2021-06-18				Doc. No.		Lang.	
Issued for			Date		Rev.		Derived fm		Prepared by		Date		Sheet 1	
							Replaces		Chuan Hua		2021-06-18		Cont. ~	
									台灣日立電網股份有限公司					

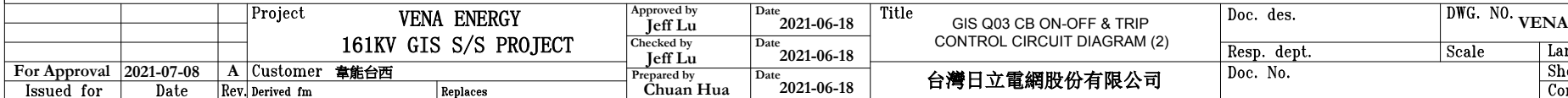
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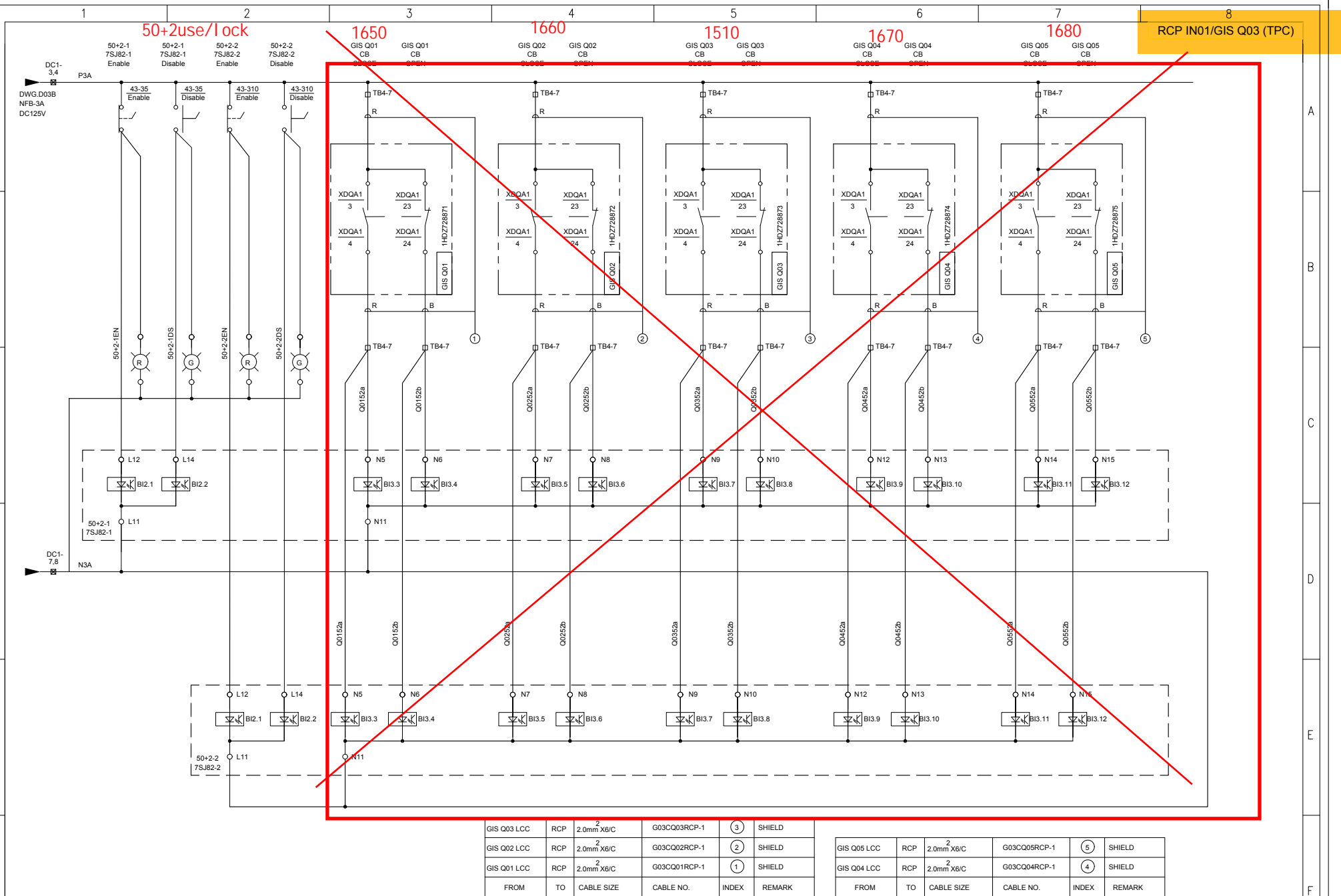
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Project			VENA ENERGY		Approved by		Date		Title		Doc. des.		DWG. NO. VENA- G03A	
161KV GIS S/S PROJECT					Jeff Lu		2021-06-18		GIS Q03 CB ON-OFF & TRIP					
					Checked by		Date		CONTROL CIRCUIT DIAGRAM (1)		Resp. dept.		Scale	
					Jeff Lu		2021-06-18				Doc. No.		Lang.	
For Approval			2021-07-08		Customer		Prepared by		台灣日立電網股份有限公司				Sheet 1	
Issued for			Date		Rev. Derived fm		Date						Cont. ~	
					Replaces									



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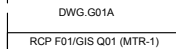
GIS Q03 LCC	RCP	2 2.0mm X6/C	G03CQ03RCP-1	③	SHIELD
GIS Q02 LCC	RCP	2 2.0mm X6/C	G03CQ02RCP-1	②	SHIELD
GIS Q01 LCC	RCP	2 2.0mm X6/C	G03CQ01RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

GIS Q05 LCC	RCP	2 2.0mm X6/C	G03CQ05RCP-1	⑤	SHIELD
GIS Q04 LCC	RCP	2 2.0mm X6/C	G03CQ04RCP-1	④	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

			Project		Approved by	Date	Title	50+2-1,2 CB ON-OFF COMMAND CONTROL CIRCUIT DIAGRAM (1)	Doc. des.	DWG. NO. VENA-G03C		
			VENA ENERGY 161KV GIS S/S PROJECT		Jeff Lu	2021-06-18				Resp. dept.	Scale	Lang.
					Checked by	Date	台灣日立電網股份有限公司	Doc. No.	Sheet 1 Cont. ~			
For Approval	2021-07-08	A	Customer 韋能台西		Jeff Lu	2021-06-18				Prepared by	Date	2021-06-18
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua	2021-06-18						



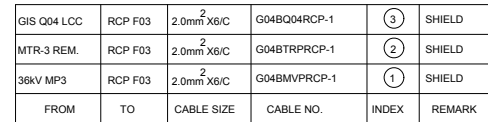
1. 保留原設計，但只做跳脫161開關，1510,1650,1660,1670,1680,需要5個D0，但不建議此方法，跳脫161開關後回復送電較麻煩 2. 只跳脫1510，1個D0 3. 跳脫33kV開關，MP1,MP2,MP3,MP4，需要4個D0，推薦此方法 4. 只做跳脫161開關1650,1660,1670,1680，需要4個D0	C	
--	---	--



			Project		Approved by	Date	Title	50+2-1,2 CB ON-OFF COMMAND CONTROL CIRCUIT DIAGRAM (2)	Doc. des.	DWG. NO. VENA-G03D	
			VENA ENERGY 161KV GIS S/S PROJECT		Jeff Lu	2021-06-18			Checked by	Date	Resp. dept.
For Approval	2021-07-08	A	Customer 韋能台西		Prepared by	Date	台灣日立電網股份有限公司	Doc. No.			Sheet 1
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua	2021-06-18					Cont. ~

[illegible]

			Project			VENA ENERGY	Approved by	Date	Title	GIS Q04 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (1)	Doc. des.	DWG. NO. VENA- G04A	
			161KV GIS S/S PROJECT				Jeff Lu	2021-06-18				Checked by	Date
For Approval	2021-07-08	A	Customer 韋能台西				Prepared by	Date	台灣日立電網股份有限公司	Doc. No.		Sheet 1	
Issued for	Date	Rev.	Derived fm	Replaces		Chuan Hua	2021-06-18	Cont.				~	

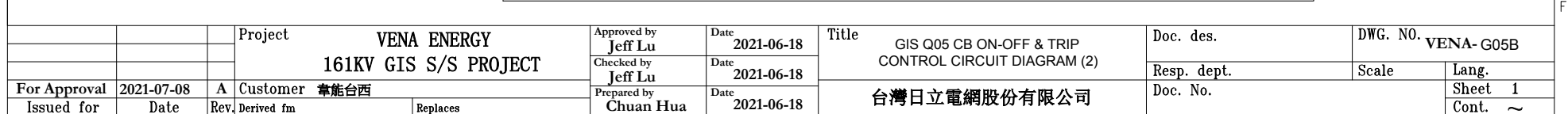


			Project		Approved by	Date	Title	Doc. des.	DWG. NO.	
			VENA ENERGY		Jeff Lu	2021-06-18			GIS Q04 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (2)	Resp. dept.
			161KV GIS S/S PROJECT		Checked by	Date	台灣日立電網股份有限公司	Doc. No.		
For Approval	2021-07-08	A	Customer 韋能台西		Jeff Lu	2021-06-18			Prepared by	Date
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua	2021-06-18				

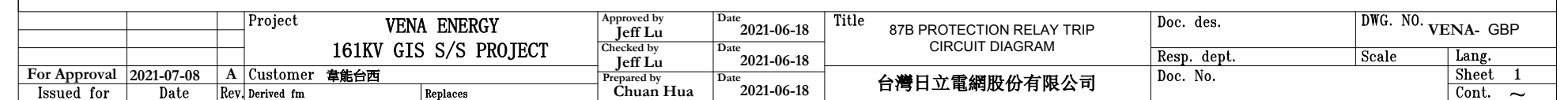


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			Project			VENA ENERGY	Approved by	Date	Title	GIS Q05 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (1)	Doc. des.	DWG. NO. VENA- G05A	
						161KV GENS S/S PROJECT	Checked by	Date			Resp. dept.	Scale	Lang.
For Approval	2021-07-08	A	Customer			韋能台西	Prepared by	Date	台灣日立電網股份有限公司	Doc. No.			Sheet 1
Issued for	Date	Rev.	Derived fm		Replaces	Chuan Hua	2021-06-18					Cont. ~	

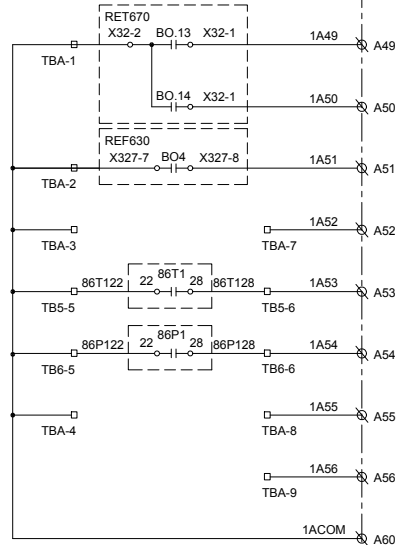
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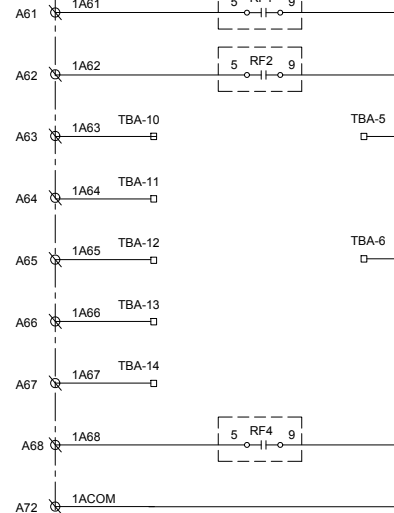
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GIS Q01 LCC	RCP	2	H01Q01RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

87T TRIP  
51G TRIP  
50/51/50N/51N TRIP  
SPARE  
86T1 TRIP  
86P1 TRIP  
SPARE  
SPARE



30RY-1  
(SACO 16D1)



GIS Q01 FAULT ALARM

RET670 RELAY FAULT ALARM

REF630 RELAY FAULT ALARM

GIS Q01 COLLECT ALARM

RELAY RET670

FAULT ALARM

RELAY REF630

FAULT ALARM

RCP F01/GIS Q01 (MTR-1)

NFB-A  
2P 6A

PA1

NA1

PA1

NA1

BZ

PA1

NA1

BZ

PA1

NA1

BZ

PA1

NA1

BZ

PA1

NA1

BZ

PA1

NA1

BZ

PA1

NA1

BZ

PA1

NA1

BZ

DC PANEL  
DC 125V  
SOURCE

RCP F02  
TB8-  
10  
TO DWG-H02  
FOR 30RY-2

RET670  
X11-3  
IRF  
X11-2  
REF630  
X329-3  
IRF  
X329-2

XDR13  
11  
-XDR13  
1  
-XDR13:11-26  
SHORT  
1HDZ728871 P.541,542  
GIS-Q01

1A49  
1A50  
1A51  
1A52  
1A53  
1A54  
1A55  
1A56  
1ACOM

1A61  
1A62  
1A63  
1A64  
1A65  
1A66  
1A67  
1A68  
1ACOM

1A49  
1A50  
1A51  
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1A54  
1A55  
1A56  
1ACOM

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1A49  
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1A52  
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1A56  
1ACOM

Project  
VENA ENERGY  
161KV GIS S/S PROJECT

Approved by  
Jeff Lu  
Date  
2021-06-18  
Checked by  
Jeff Lu  
Date  
2021-06-18  
Prepared by  
Chuan Hua  
Date  
2021-06-18

Title  
ALARM SYSTEM 30RY-1  
WIRING DIAGRAM FOR RCP F01  
台灣日立電網股份有限公司

Doc. des.  
Resp. dept.  
Doc. No.  
DWG. NO.  
VENA-H01  
Scale  
Lang.  
Sheet  
1  
Cont.  
~

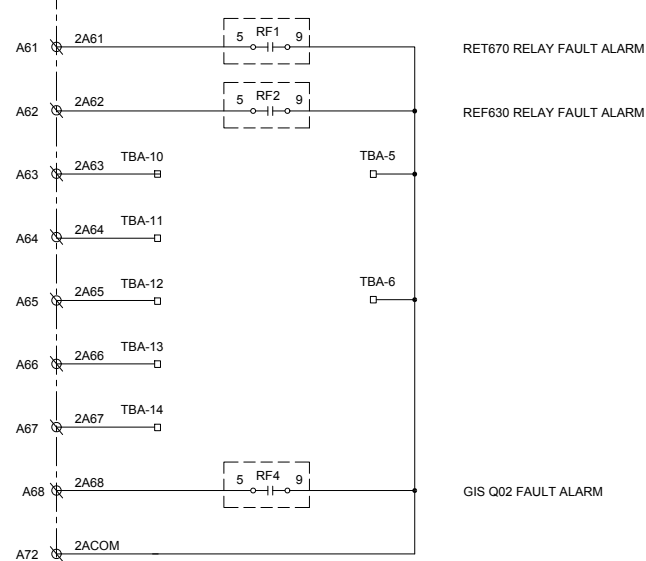
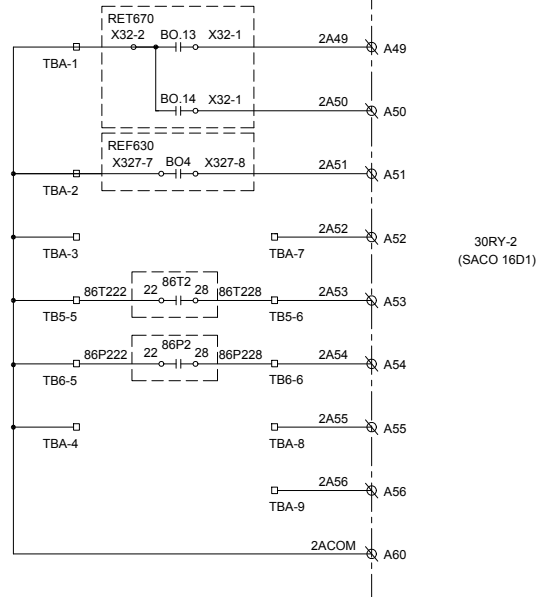
For Approval  
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2021-07-08  
Date

Rev.  
A  
Customer  
韋能台西  
Derived fm  
Replaces

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GIS Q02 LCC	RCP	2 2.0mm <sup>2</sup> X4/C	H02Q02RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

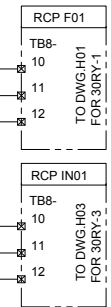
87T TRIP  
51G TRIP  
50/51/50N/51N TRIP  
SPARE  
86T2 TRIP  
86P2 TRIP  
SPARE  
SPARE



RCP F02/GIS Q02 (MTR-2)

PA1  
NA1  
BZ

TB8-  
10  
11  
12



RELAY RET670  
FAULT ALARM  
RELAY REF630  
FAULT ALARM

GIS Q02 COLLECT ALARM

RET670 RELAY FAULT ALARM

REF630 RELAY FAULT ALARM

GIS Q02 FAULT ALARM

		Project		Approved by		Date		Title		Doc. des.		DWG. NO. VENA-H02	
		VENA ENERGY		Jeff Lu		2021-06-18		ALARM SYSTEM 30RY-2					
		161KV GIS S/S PROJECT		Checked by		Date		WIRING DIAGRAM FOR RCP F02		Resp. dept.		Scale	
		Customer 韋能台西		Jeff Lu		2021-06-18				Doc. No.		Lang.	
For Approval		2021-07-08		A		Prepared by		台灣日立電網股份有限公司				Sheet 1	
Issued for		Date		Rev.		Chuan Hua		2021-06-18				Cont. ~	
		Derived fm		Replaces									



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GIS Q04 LCC	RCP	2 2.0mm <sup>2</sup> X4/C	H04Q04RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

87T TRIP

51G TRIP

50/51/50N/51N TRIP

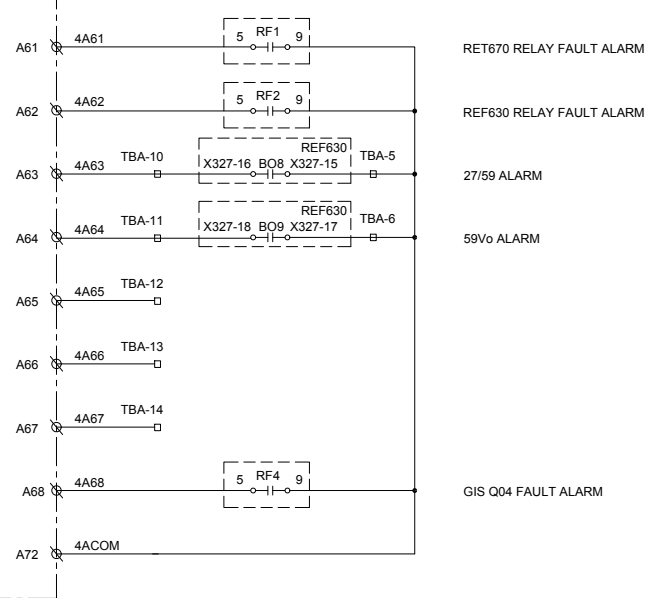
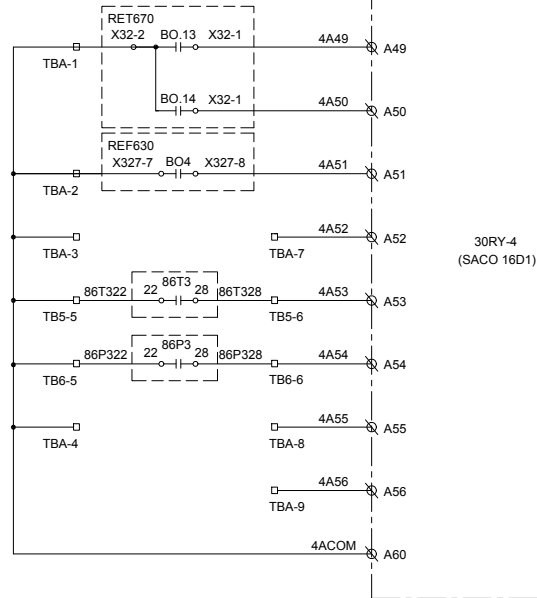
SPARE

86T3 TRIP

86P3 TRIP

SPARE

SPARE



RCP F03/GIS Q04 (MTR-3)

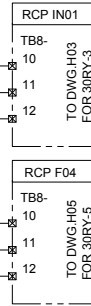
PA1  
NA1  
BZ

TB8-

10

11

12



RELAY RET670  
FAULT ALARM

RELAY REF630  
FAULT ALARM

GIS Q04 COLLECT ALARM

RET670 RELAY FAULT ALARM

REF630 RELAY FAULT ALARM

27/59 ALARM

59Vo ALARM

GIS Q04 FAULT ALARM

		Project		Approved by	Date	Title		Doc. des.		DWG. NO. VENA-H04	
		VENA ENERGY		Jeff Lu	2021-06-18	ALARM SYSTEM 30RY-4					
		161KV GIS S/S PROJECT		Checked by	Date	WIRING DIAGRAM FOR RCP F03		Resp. dept.		Scale	Lang.
For Approval	2021-07-08	A	Customer 韋能台西	Prepared by	Date	台灣日立電網股份有限公司		Doc. No.		Sheet 1	
Issued for	Date	Rev.	Derived fm	Replaces	2021-06-18					Cont. ~	

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GIS Q05 LCC	RCP	2 2.0mm <sup>2</sup> X4/C	H05005RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

87T TRIP

51G TRIP

50/51/50N/51N TRIP

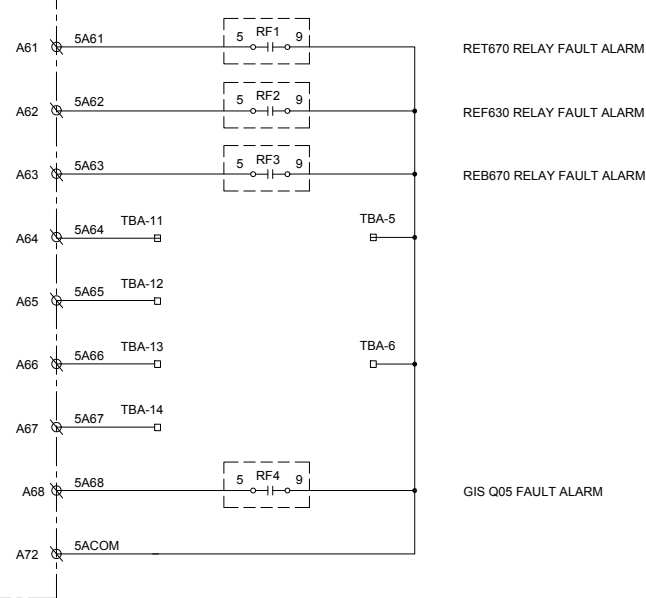
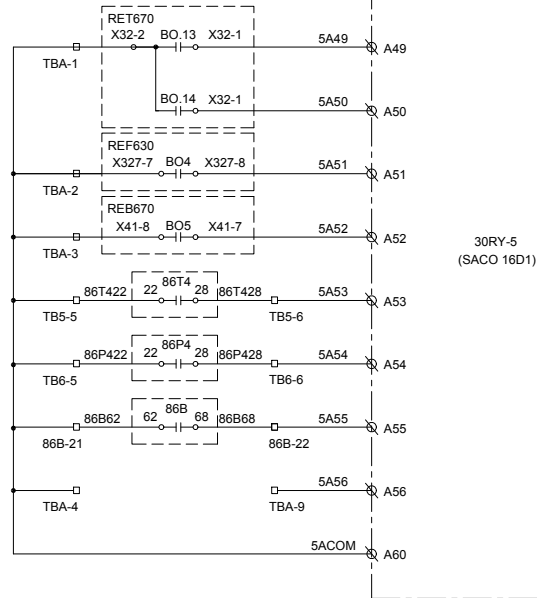
87B TRIP

86T4 TRIP

86P4 TRIP

86B TRIP

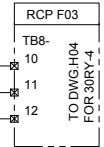
SPARE



RCP F04/GIS Q05 (MTR-4)

PA1  
NA1  
BZ

TB8-  
10  
11  
12



RELAY RET670  
FAULT ALARM

RELAY REF630  
FAULT ALARM

RELAY REB670  
FAULT ALARM

GIS Q05 COLLECT ALARM

RET670 RELAY FAULT ALARM

REF630 RELAY FAULT ALARM

REB670 RELAY FAULT ALARM

GIS Q05 FAULT ALARM

		Project		VENA ENERGY	Approved by	Date	Title		Doc. des.	DWG. NO. VENA-H05	
				161KV GIS S/S PROJECT	Jeff Lu	2021-06-18	ALARM SYSTEM 30RY-5				
					Checked by	Date	WIRING DIAGRAM FOR RCP F04		Resp. dept.	Scale	Lang.
For Approval	2021-07-08	A	Customer	韋能台西	Prepared by	Date	台灣日立電網股份有限公司		Doc. No.	Sheet 1	
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua	2021-06-18				Cont. ~	



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### 30RY-1 (F01)

### 30RY-2 (F02)

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87T (RET670) TRIP	51G (RET670) TRIP	50/51/50N/51N (REF630) TRIP	
1	2	3	4
86T1 TRIP	86P1 TRIP		
5	6	7	8
87T/51G RET670 RELAY FAULT ALARM	50/51/50N/51N REF630 RELAY FAULT ALARM		
9	10	11	12
			161KV GIS Q01 FAULT ALARM
13	14	15	16

87T (RET670) TRIP	51G (RET670) TRIP	50/51/50N/51N (REF630) TRIP	
1	2	3	4
86T2 TRIP	86P2 TRIP		
5	6	7	8
87T/51G RET670 RELAY FAULT ALARM	50/51/50N/51N REF630 RELAY FAULT ALARM		
9	10	11	12
			161KV GIS Q01 FAULT ALARM
13	14	15	16

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			Project	VENA ENERGY	Approved by	Date	Title	Doc. des.	DWG. NO.	VENA- I01
			161KV GIS S/S PROJECT		Jeff Lu	2021-06-18	ALARM SYSTEM WINDOWS DIAGRAM FOR RCP F01 & RCP F02			
					Checked by	Date		Resp. dept.	Scale	Lang.
For Approval	2021-07-08	A	Customer	韋能台西	Jeff Lu	2021-06-18				
Issued for	Date	Rev.	Derived fm	Replaces	Prepared by	Date	台灣日立電網股份有限公司	Doc. No.	Sheet	1
					Chuan Hua	2021-06-18			Cont.	~

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### 30RY-3 (IN01)

87L1 (7SL86-1) TRIP 1	DTT-1 (7SL86-1) TRIP 2	21/21N-1 67/67N-1 (7SL86-1) TRIP 3	86L TRIP 4
87L2 (7SL86-2) TRIP 5	DTT-2 (7SL86-2) TRIP 6	21/21N-2 67/67N-2 (7SL86-2) TRIP 7	8
87L1 / 50+2-1 (7SL86-1) (7SJ82-1) RELAY FAULT ALARM 9	87L1 / 50+2-1 (7SL86-1) (7SJ82-1) COMM. ALARM 10	87L2 / 50+2-2 (7SL86-2) (7SJ82-2) RELAY FAULT ALARM 11	87L2 / 50+2-2 (7SL86-2) (7SJ82-2) COMM. ALARM 12
13	14	15	161KV GIS Q03 FAULT ALARM 16

			Project	VENA ENERGY	Approved by	Date	Title	Doc. des.	DWG. NO.	VENA- 102
			161KV GIS S/S PROJECT		Jeff Lu	2021-06-18	ALARM SYSTEM WINDOWS DIAGRAM FOR RCP IN01			
For Approval	2021-07-08	A	Customer	韋能台西	Checked by	Date		Resp. dept.	Scale	Lang.
Issued for	Date	Rev.	Derived fm	Replaces	Prepared by	Date	台灣日立電網股份有限公司	Doc. No.		Sheet 1
					Chuan Hua	2021-06-18				Cont. ~

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### 30RY-4 (F03)

### 30RY-5 (F04)

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87T (RET670) TRIP 1	51G (RET670) TRIP 2	50/51/50N/51N (REF630) TRIP 3	   4
86T3 TRIP 5	86P3 TRIP 6	   7	   8
87T/51G RET670 RELAY FAULT ALARM 9	50/51/50N/51N REF630 RELAY FAULT ALARM 10	BUS 27/59 ALARM 11	BUS 59Vo ALARM 12
   13	   14	   15	161KV GIS Q04 FAULT ALARM 16

87T (RET670) TRIP 1	51G (RET670) TRIP 2	50/51/50N/51N (REF630) TRIP 3	87B (REB670) TRIP 4
86T4 TRIP 5	86P4 TRIP 6	86B TRIP 7	   8
87T/51G RET670 RELAY FAULT ALARM 9	50/51/50N/51N REF630 RELAY FAULT ALARM 10	87B REB670 RELAY FAULT ALARM 11	   12
   13	   14	   15	161KV GIS Q05 FAULT ALARM 16

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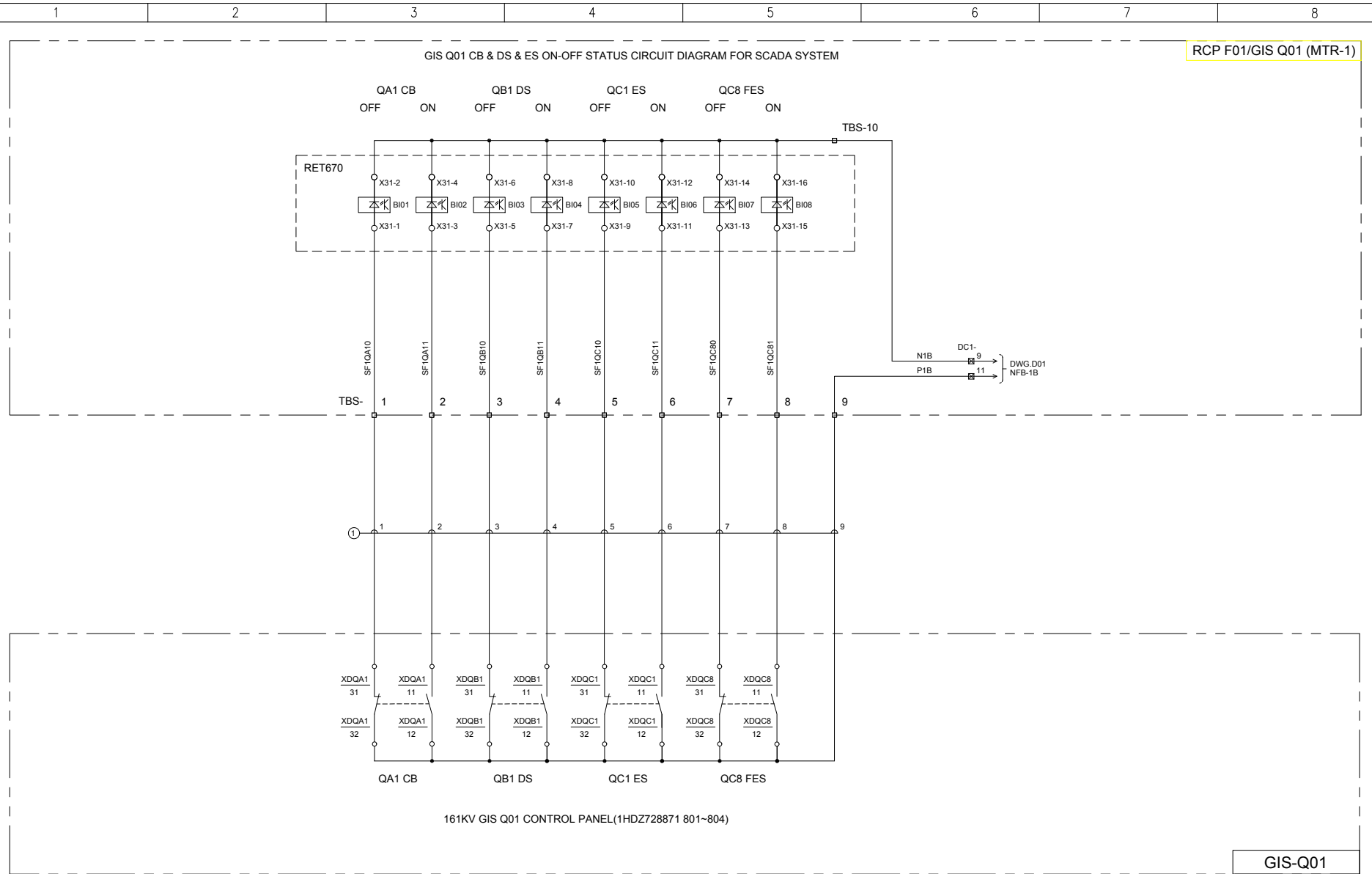
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			Project	VENA ENERGY	Approved by	Date	Title	Doc. des.	DWG. NO.	VENA- I03
			161KV GIS S/S PROJECT		Jeff Lu	2021-06-18	ALARM SYSTEM WINDOWS			
					Checked by	Date	DIAGRAM FOR RCP F03 & RCP F04	Resp. dept.	Scale	Lang.
For Approval	2021-07-08	A	Customer	韋能台西	Jeff Lu	2021-06-18		Doc. No.		Sheet 1
Issued for	Date	Rev.	Derived fm	Replaces	Prepared by	Date	台灣日立電網股份有限公司			Cont. ~
					Chuan Hua	2021-06-18				

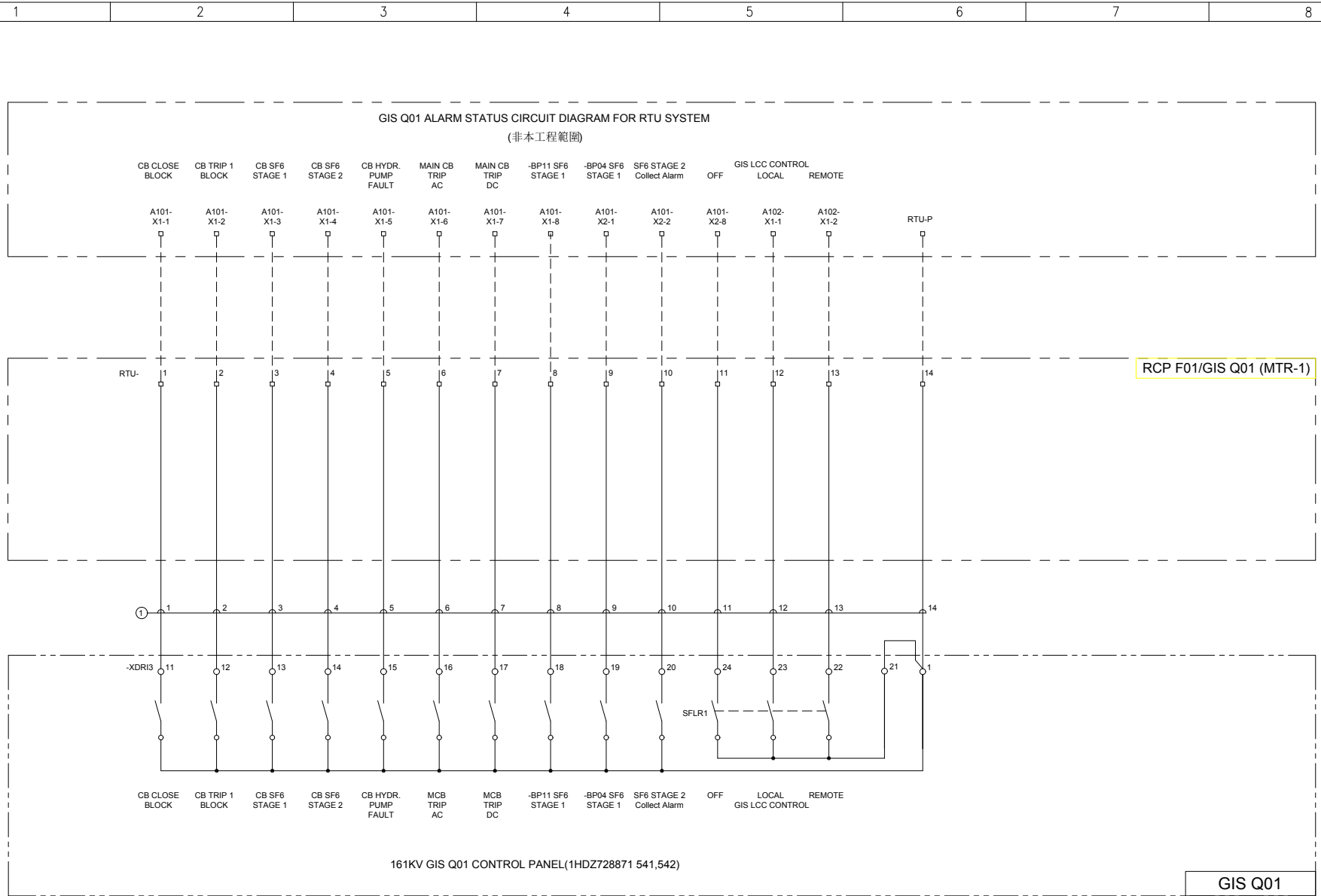
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GIS Q01 LCC	RCP	2.0mm X12/C	K01AQ01RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

Project			VENA ENERGY		Approved by		Date		Title		Doc. des.		DWG. NO. VENA-K01A	
161KV GIS S/S PROJECT					Jeff Lu		2021-06-18		GIS Q01 CB & DS & ES					
					Checked by		Date		ON-OFF STATUS FOR SCADA		Resp. dept.		Scale	Lang.
For Approval			2021-07-08		A Customer		2021-06-18				Doc. No.		Sheet	1
Issued for			Date		Rev.		Derived fm		Prepared by				Cont.	~
									Chuan Hua		2021-06-18		台灣日立電網股份有限公司	

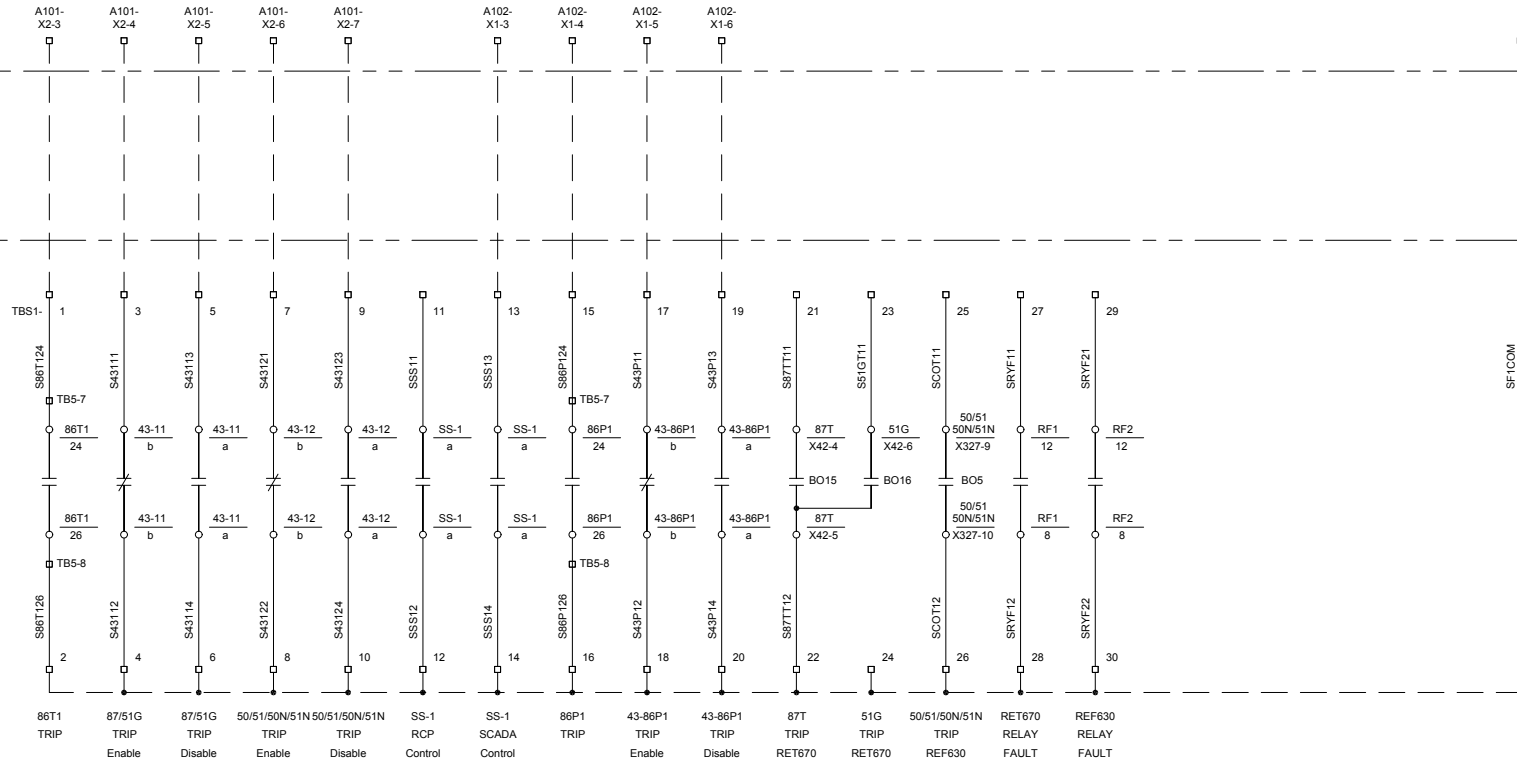
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GIS Q01 LCC	RCP	2.0mm <sup>2</sup> X16/C	K01BQ01RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

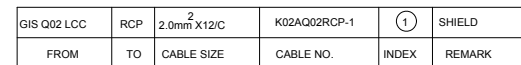
		Project	VENA ENERGY		Approved by	Date	Title	Doc. des.		DWG. NO.	
		161KV GIS S/S PROJECT			Jeff Lu	2021-06-18				VENA-K01B	
					Checked by	Date		Resp. dept.		Scale	Lang.
For Approval	2021-07-08	A	Customer	韋能台西	Prepared by	Date	台灣日立電網股份有限公司	Doc. No.		Sheet 1	
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua	2021-06-18				Cont. ~	

RCP F01 PROTECTION RELAY & 43 STATUS CIRCUIT DIAGRAM FOR RTU SYSTEM  
(非本工程範圍)



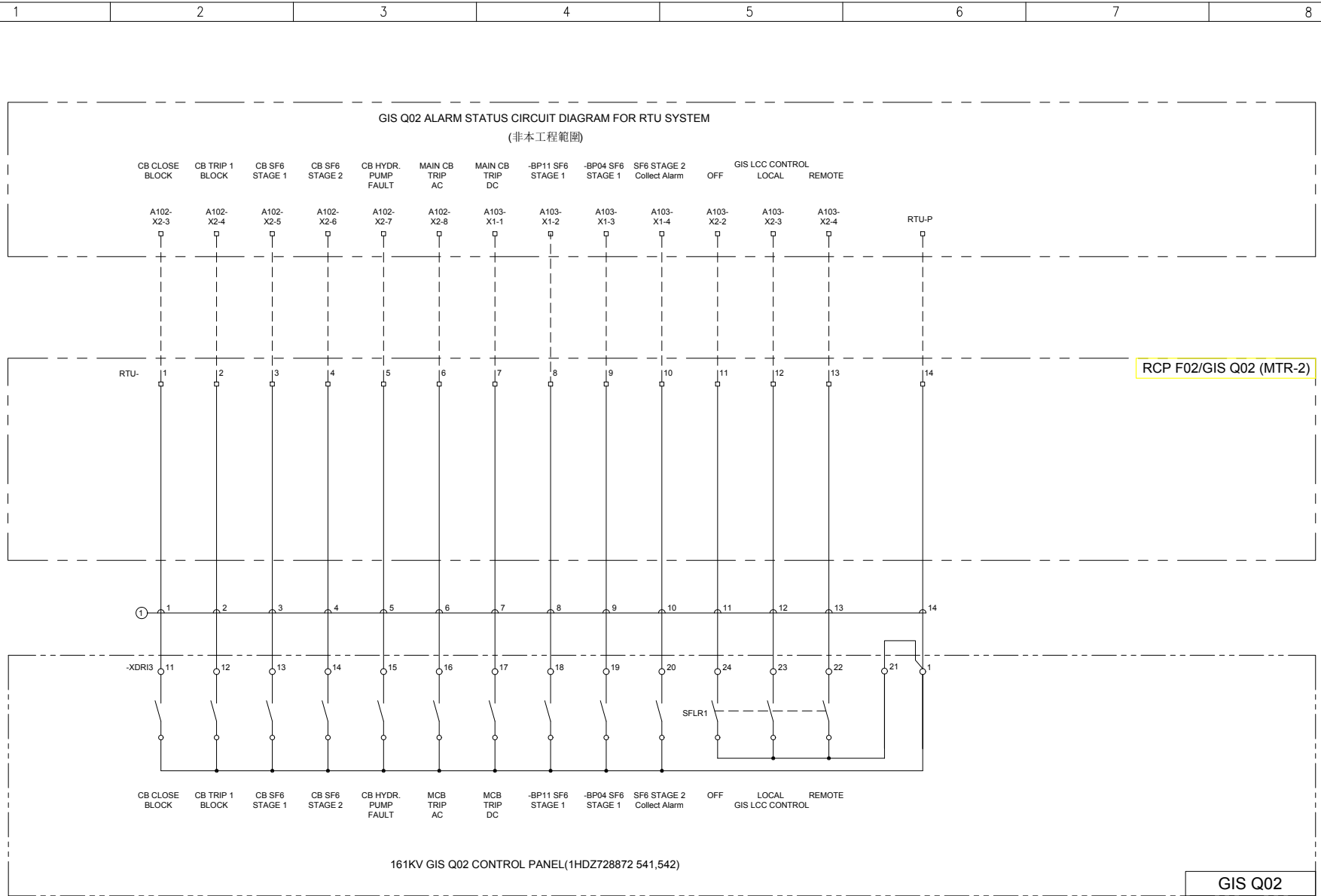
RCP F01/GIS Q01 (MTR-1)

			Project			VENA ENERGY	Approved by	Date	Title	RCP F01 PROTECTION RELAY & 43	Doc. des.	DWG. NO.		
			161KV GIS S/S PROJECT			Jeff Lu	2021-06-18	VENA-K01C						
						Checked by	Date	STATUS FOR RTU		Resp. dept.	Scale	Lang.		
For Approval	2021-07-08	A	Customer			韋能台西	Prepared by	Date	台灣日立電網股份有限公司	Doc. No.	Sheet		1	
Issued for	Date	Rev.	Derived fm		Replaces	Chuan Hua	2021-06-18	Cont.			~			



			Project			Approved by	Date	Title	GIS Q02 CB & DS & ES ON-OFF STATUS FOR SCADA	Doc. des.	DWG. NO. VENA-K02A	
			VENA ENERGY 161KV GIS S/S PROJECT			Jeff Lu	2021-06-18					
						Checked by	Date	台灣日立電網股份有限公司		Resp. dept.	Scale	Lang.
For Approval	2021-07-08	A	Customer 韋能台西			Jeff Lu	2021-06-18			Doc. No.	Sheet 1	
Issued for	Date	Rev.	Derived fm	Replaces	Prepared by	Date	Chuan Hua			2021-06-18	Cont. ~	

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GIS Q02 LCC	RCP	2.0mm <sup>2</sup> X16/C	K02BQ02RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

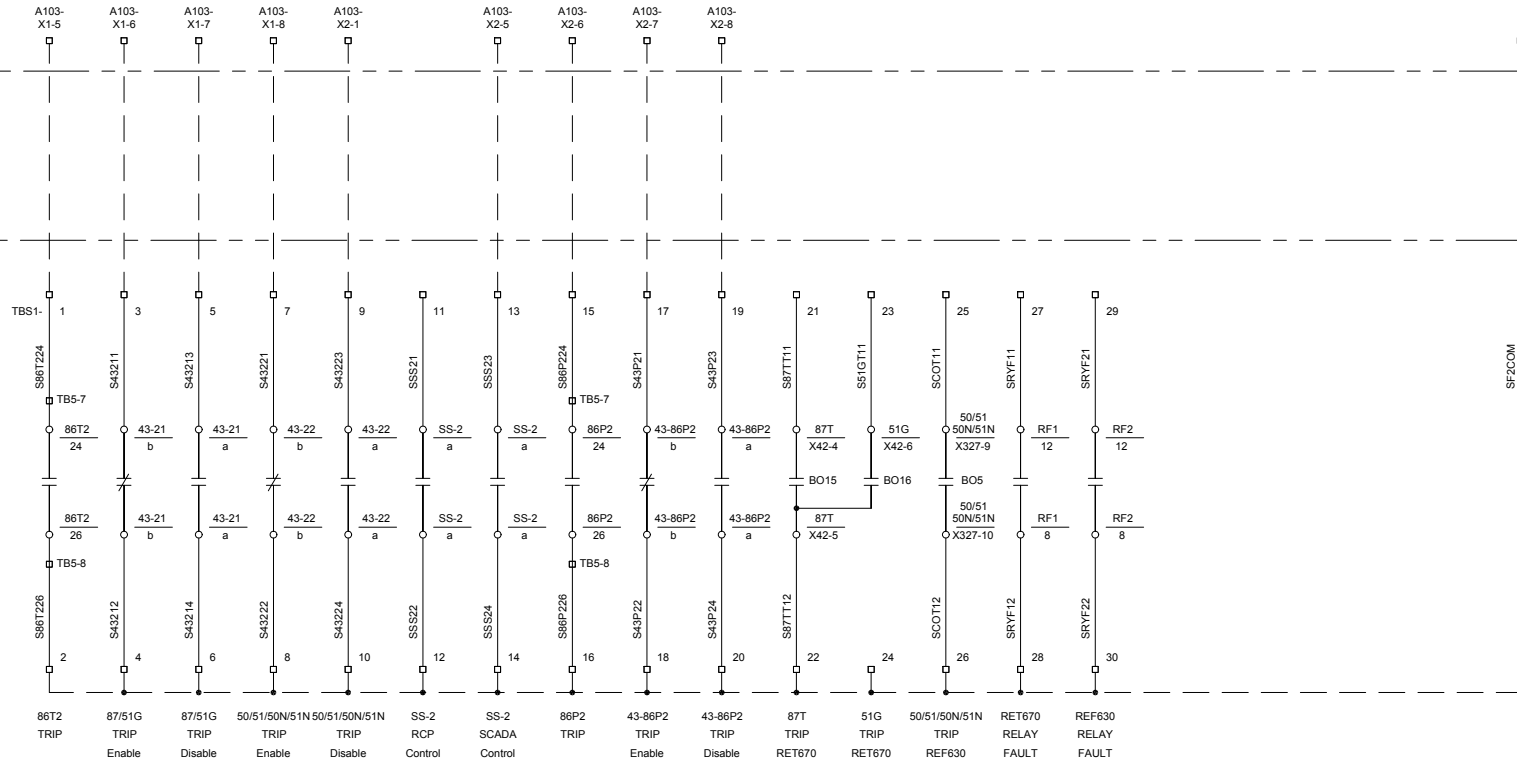
		Project	VENA ENERGY		Approved by	Date	Title	Doc. des.		DWG. NO. VENA-K02B	
		161KV GIS S/S PROJECT		Checked by	Jeff Lu	2021-06-18					
		Customer 韋能台西		Prepared by	Jeff Lu	2021-06-18		Resp. dept.		Scale	Lang.
For Approval	2021-07-08	A	Customer	Derives from	Replaces	Chuan Hua	2021-06-18	Doc. No.		Sheet 1	
Issued for	Date	Rev.								Cont. ~	

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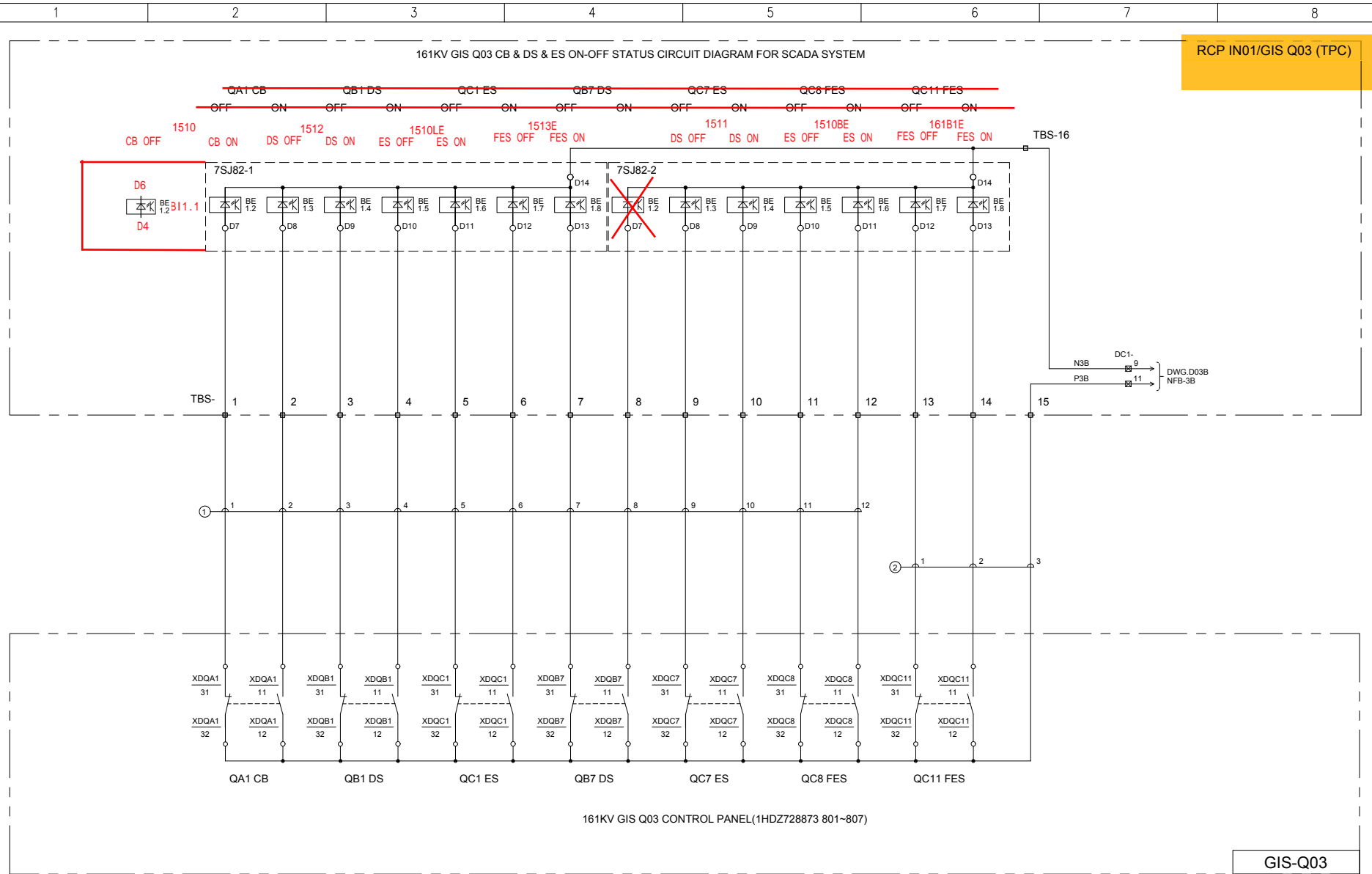
RCP F02 PROTECTION RELAY & 43 STATUS CIRCUIT DIAGRAM FOR RTU SYSTEM  
(非本工程範圍)



RCP F02/GIS Q02 (MTR-2)

		Project		Approved by	Date	Title	Doc. des.		DWG. NO.	
		VENA ENERGY		Jeff Lu	2021-06-18				VENA-K02C	
		161KV GIS S/S PROJECT		Checked by	Date	台灣日立電網股份有限公司	Resp. dept.		Scale	Lang.
For Approval	2021-07-08	A Customer 韋能台西		Jeff Lu	2021-06-18		Doc. No.		Sheet	1
Issued for	Date	Rev.	Derived fm	Replaces	Prepared by	Date			Cont.	~
				Chuan Hua	2021-06-18					

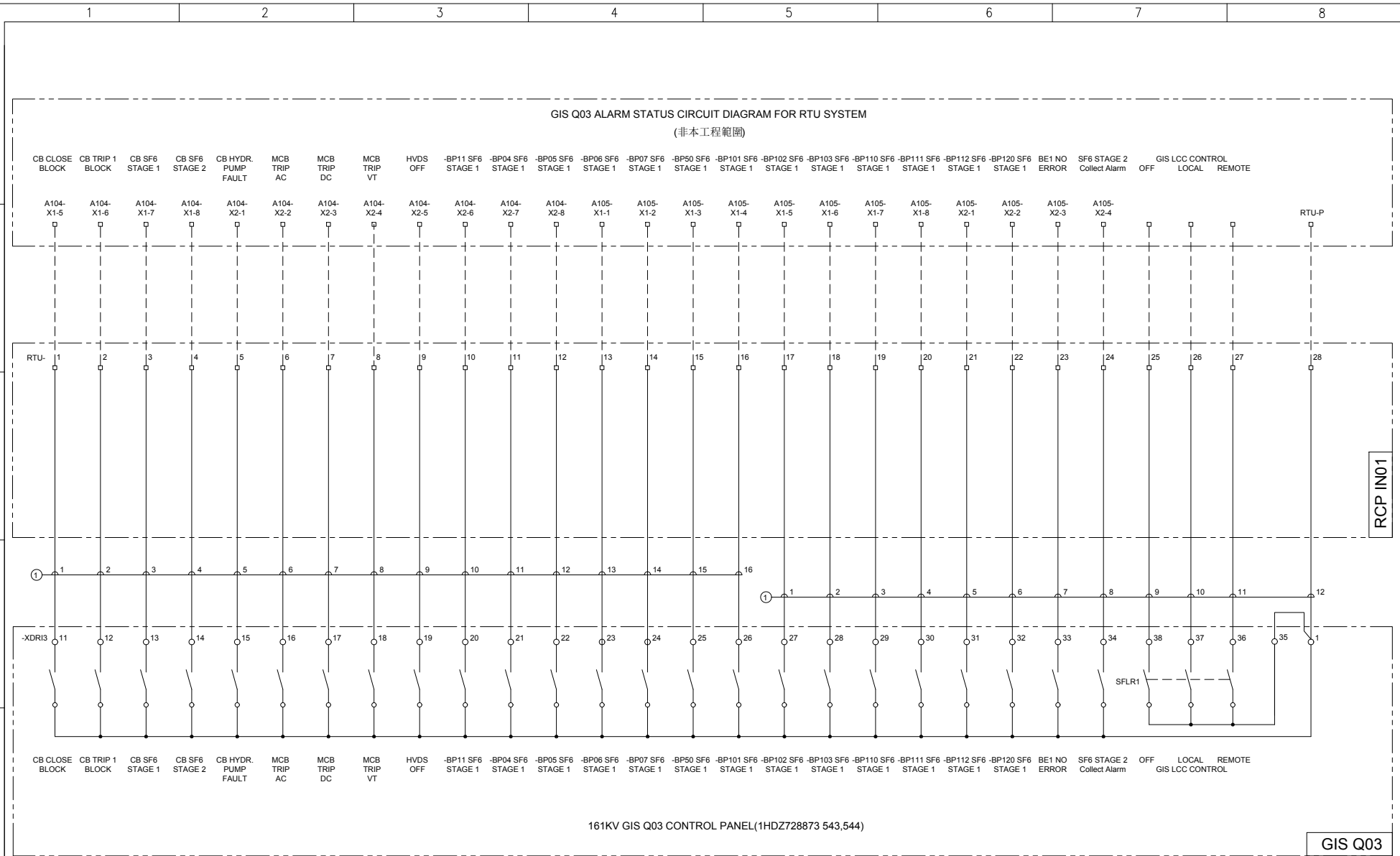
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GIS Q03 LCC	RCP	2.0mm <sup>2</sup> X12/C	K03AQ03RCP-2	②	SHIELD
GIS Q03 LCC	RCP	2.0mm <sup>2</sup> X12/C	K03AQ03RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

Project			VENA ENERGY		Approved by		Date		Title		Doc. des.		DWG. NO. VENA-K03A	
161KV GIS S/S PROJECT					Jeff Lu		2021-06-18		GIS Q03 CB & DS & ES					
					Jeff Lu		2021-06-18		ON-OFF STATUS FOR SCADA		Resp. dept.		Scale	Lang.
For Approval	2021-07-08	A	Customer 韋能台西		Prepared by		Date		台灣日立電網股份有限公司		Doc. No.		Sheet 1	Cont. ~
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua		2021-06-18							

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GIS Q03 LCC	RCP	2.0mm <sup>2</sup> X16/C	K03BQ03RCP-2	①	SHIELD
GIS Q03 LCC	RCP	2.0mm <sup>2</sup> X16/C	K03BQ03RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

			Project	VENA ENERGY	Approved by	Date	Title	Doc. des.	DWG. NO.
			161KV GIS S/S PROJECT		Jeff Lu	2021-06-18	GIS Q03 ALARM		VENA-K03B
					Checked by	Date	STATUS FOR RTU	Resp. dept.	Scale
					Jeff Lu	2021-06-18			Lang.
For Approval	2021-07-08	A	Customer	韋能台西	Prepared by	Date	台灣日立電網股份有限公司	Doc. No.	Sheet 1
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua	2021-06-18			Cont. ~



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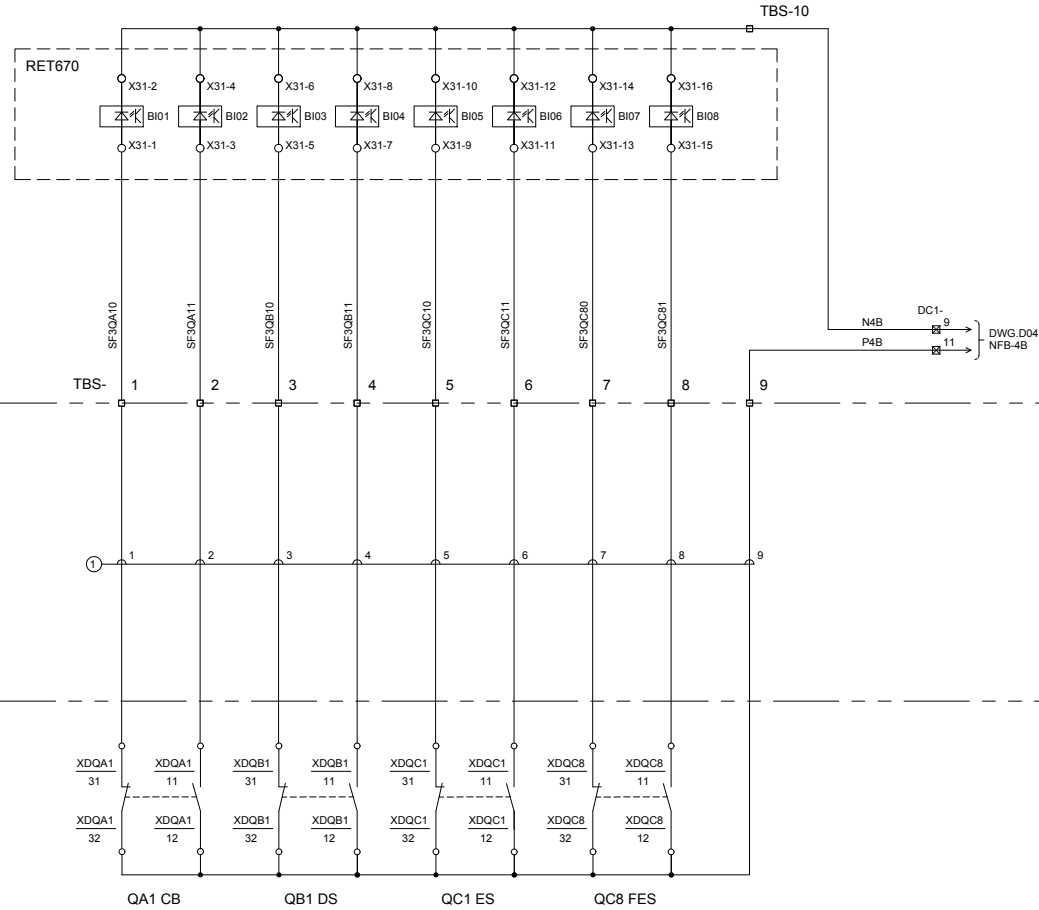
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GIS Q04 CB & DS & ES ON-OFF STATUS CIRCUIT DIAGRAM FOR SCADA SYSTEM

RCP F03/GIS Q04 (MTR-3)

QA1 CB      QB1 DS      QC1 ES      QC8 FES  
OFF   ON      OFF   ON      OFF   ON      OFF   ON



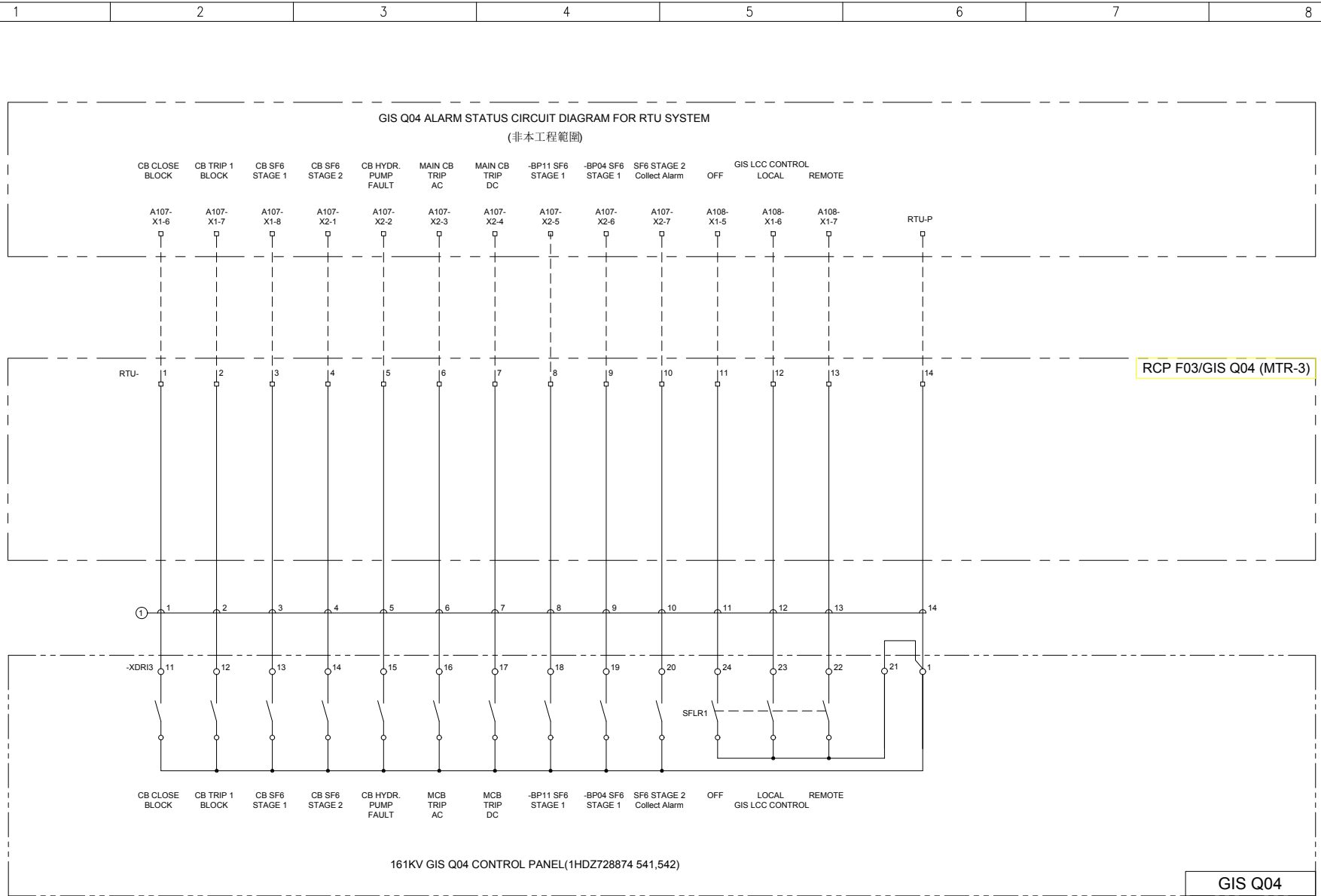
161KV GIS Q04 CONTROL PANEL(1HDZ728874 801~804)

GIS-Q04

GIS Q04 LCC	RCP	2.0mm X12/C	K04AQ04RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

			Project			VENA ENERGY	Approved by	Date	Title	GIS Q04 CB & DS & ES ON-OFF STATUS FOR SCADA	Doc. des.	DWG. NO. VENA-K04A	
			161KV GIS S/S PROJECT				Checked by	Date			Resp. dept.	Scale	Lang.
For Approval	2021-07-08	A	Customer 韋能台西				Prepared by	Date	台灣日立電網股份有限公司	Doc. No.	Sheet 1		
Issued for	Date	Rev.	Derived fm	Replaces		Chuan Hua	2021-06-18	Cont. ~					

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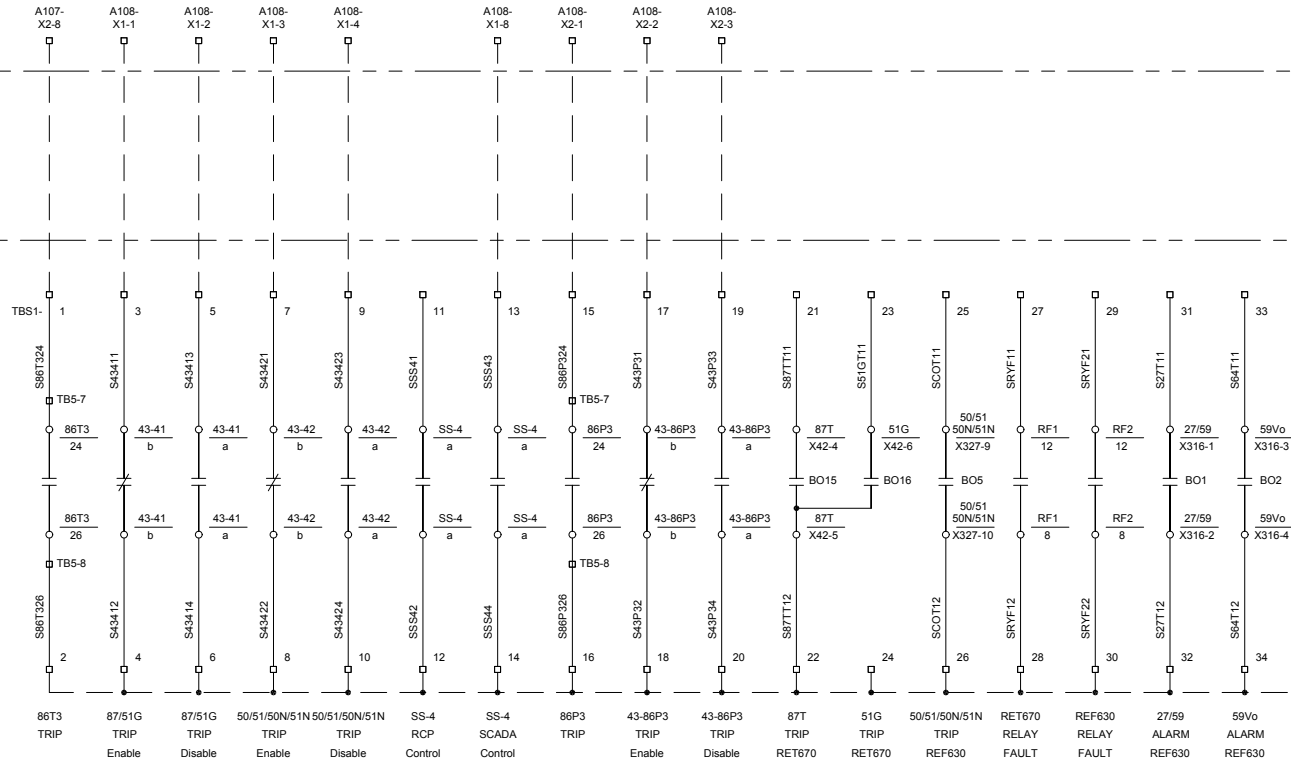


GIS Q04 LCC	RCP	2.0mm <sup>2</sup> X16/C	K04BQ04RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

			Project	VENA ENERGY	Approved by	Date	Title	Doc. des.	DWG. NO.
			161KV GIS S/S PROJECT		Jeff Lu	2021-06-18	GIS Q04 ALARM STATUS FOR RTU		VENA-K04B
					Checked by	Date		Resp. dept.	Scale
For Approval	2021-07-08	A	Customer	韋能台西	Jeff Lu	2021-06-18			Lang.
Issued for	Date	Rev.	Derived fm	Replaces	Prepared by	Date	台灣日立電網股份有限公司	Doc. No.	Sheet 1
					Chuan Hua	2021-06-18			Cont. ~

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RCP F03 PROTECTION RELAY & 43 STATUS CIRCUIT DIAGRAM FOR RTU SYSTEM  
(非本工程範圍)



RCP F03/GIS Q04 (MTR-3)

		Project		VENA ENERGY	Approved by	Date	Title		Doc. des.		DWG. NO.	
		161KV GIS S/S PROJECT			Jeff Lu	2021-06-18	RCP F03 PROTECTION RELAY & 43				VENA-K04C	
					Checked by	Date	STATUS FOR RTU		Resp. dept.		Scale	Lang.
For Approval	2021-07-08	A	Customer 韋能台西		Jeff Lu	2021-06-18			Doc. No.		Sheet	1
Issued for	Date	Rev.	Derived fm	Replaces	Prepared by	Date	台灣日立電網股份有限公司				Cont.	~
					Chuan Hua	2021-06-18						

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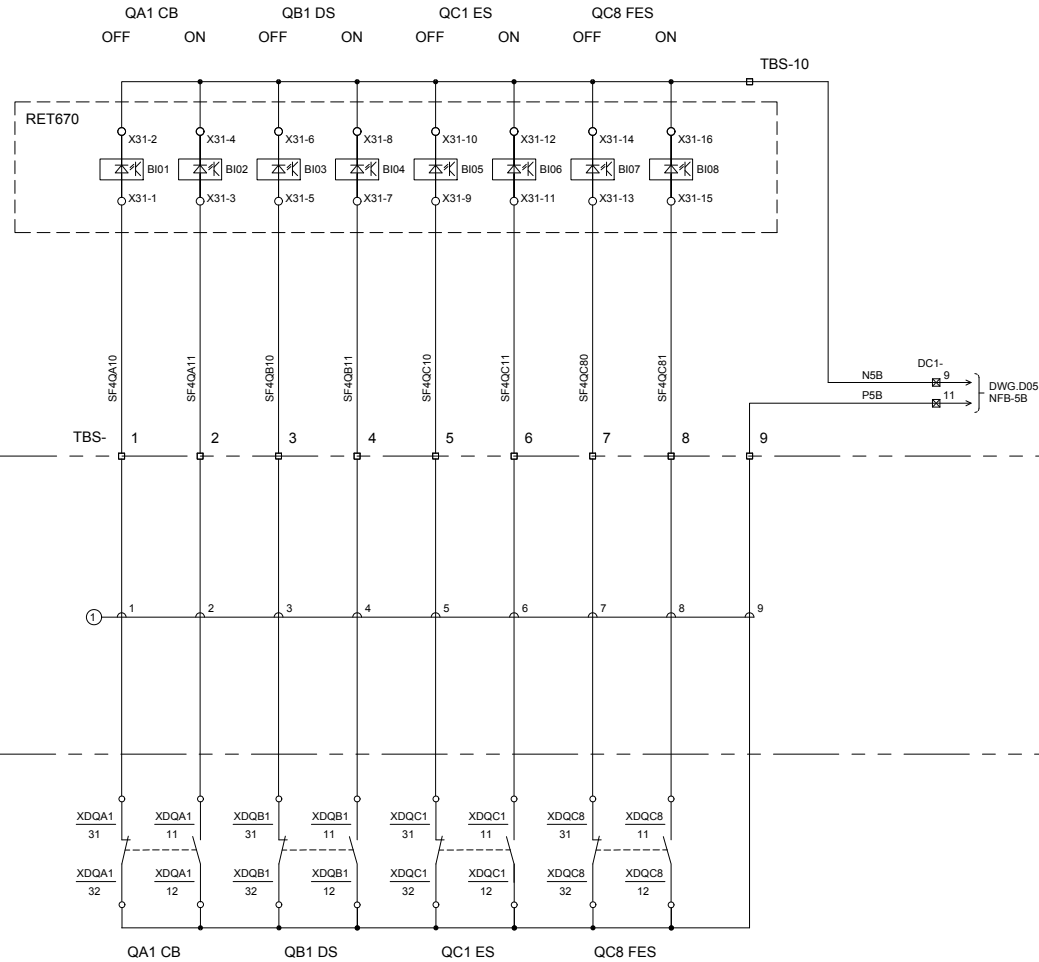
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GIS Q05 CB & DS & ES ON-OFF STATUS CIRCUIT DIAGRAM FOR SCADA SYSTEM

RCP F04/GIS Q05 (MTR-4)



161KV GIS Q05 CONTROL PANEL(1HDZ728875 801~804)

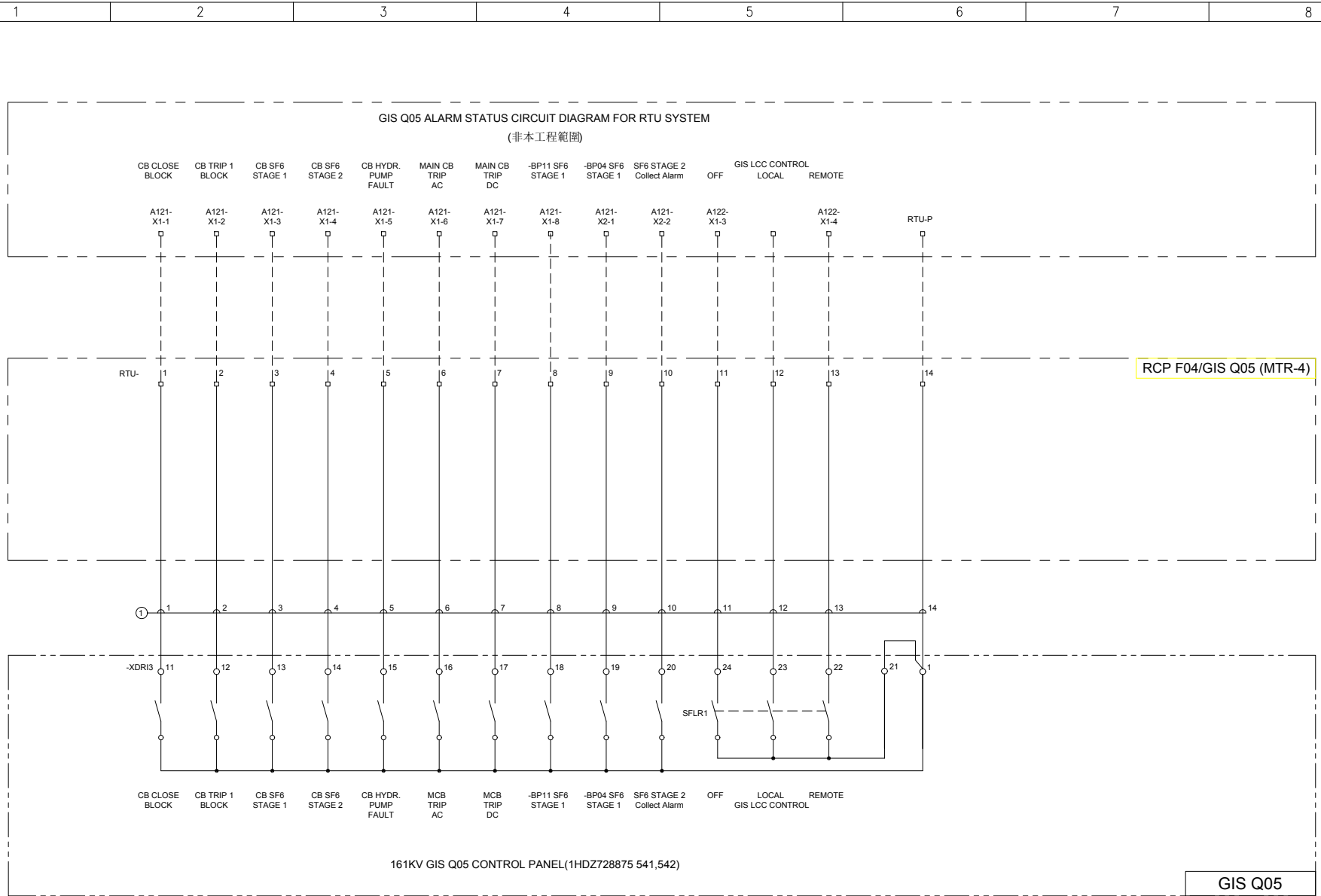
GIS-Q05

GIS Q05 LCC	RCP	2.0mm X12/C	K05AQ05RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

		Project		VENA ENERGY	Approved by	Date	2021-06-18	Title		Doc. des.	DWG. NO. VENA-K05A	
				161KV GIS S/S PROJECT	Checked by	Date	2021-06-18	ON-OFF STATUS FOR SCADA		Resp. dept.	Scale	Lang.
For Approval	2021-07-08	A	Customer	韋能台西	Prepared by	Date	2021-06-18	台灣日立電網股份有限公司		Doc. No.	Sheet 1	
Issued for	Date	Rev.	Derived fm	Replaces							Cont. ~	



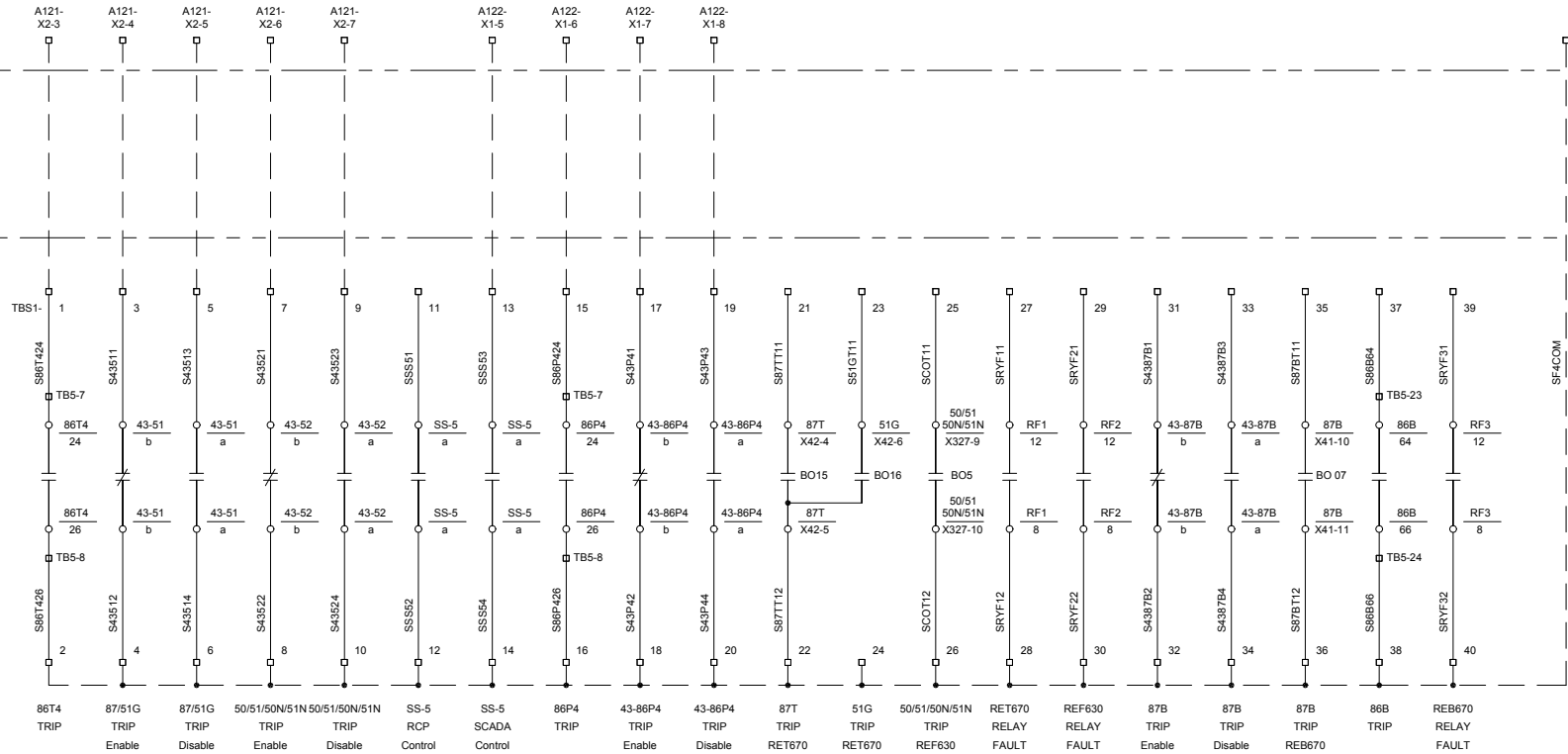
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GIS Q05 LCC	RCP	2.0mm <sup>2</sup> X16/C	K05BQ05RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

			Project	VENA ENERGY	Approved by	Date	Title	Doc. des.	DWG. NO.
			161KV GIS S/S PROJECT		Jeff Lu	2021-06-18	GIS Q05 ALARM STATUS FOR RTU		VENA-K05B
					Checked by	Date		Resp. dept.	Scale
For Approval	2021-07-08	A	Customer	韋能台西	Jeff Lu	2021-06-18			Lang.
Issued for	Date	Rev.	Derived fm	Replaces	Prepared by	Date	台灣日立電網股份有限公司	Doc. No.	Sheet 1
					Chuan Hua	2021-06-18			Cont. ~

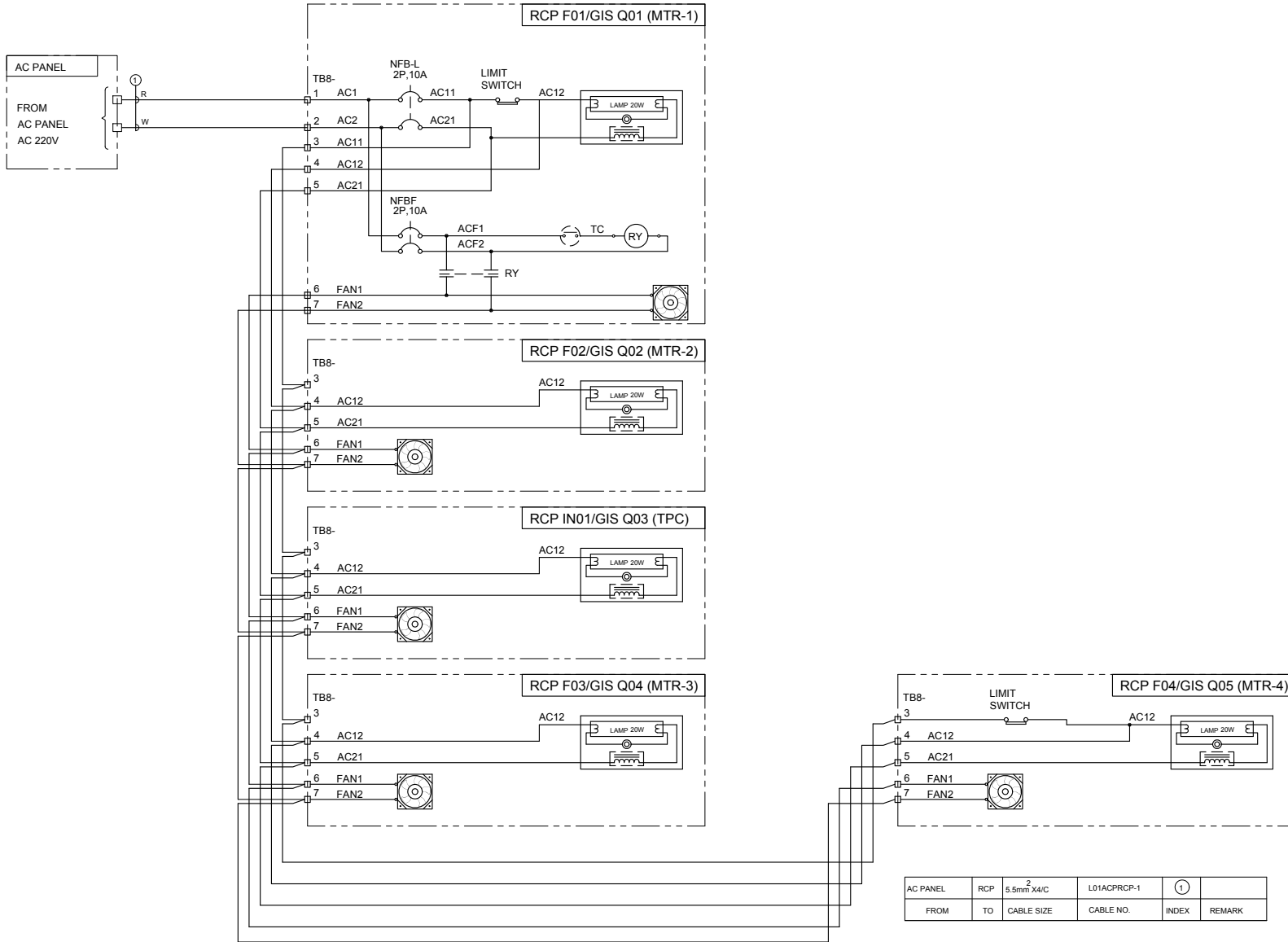
RCP F04 PROTECTION RELAY & 43 STATUS CIRCUIT DIAGRAM FOR RTU SYSTEM  
(非本工程範圍)



RCP F04/GIS Q05 (MTR-4)

		Project		VENA ENERGY	Approved by	Date	Title		Doc. des.		DWG. NO.	
		161KV GIS S/S PROJECT			Jeff Lu	2021-06-18	RCP F04 PROTECTION RELAY & 43				VENA-K05C	
					Checked by	Date	STATUS FOR RTU		Resp. dept.		Scale	Lang.
					Jeff Lu	2021-06-18						
For Approval	2021-07-08	A	Customer		韋能台西	Prepared by	Date	台灣日立電網股份有限公司		Doc. No.		Sheet
Issued for	Date	Rev.	Derived fm		Replaces	Chuan Hua	2021-06-18					Cont.

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Project			VENA ENERGY		Approved by		Date		Title		Doc. des.		DWG. NO. VENA-L01	
			161KV GIS S/S PROJECT		Checked by		Date		LIGHTING WIRING		Resp. dept.		Scale	
For Approval			Customer 韋能台西		Prepared by		Date		台灣日立電網股份有限公司		Doc. No.		Sheet 1	
Issued for			Date		Rev.		Derived fm		Replaces				Cont. ~	

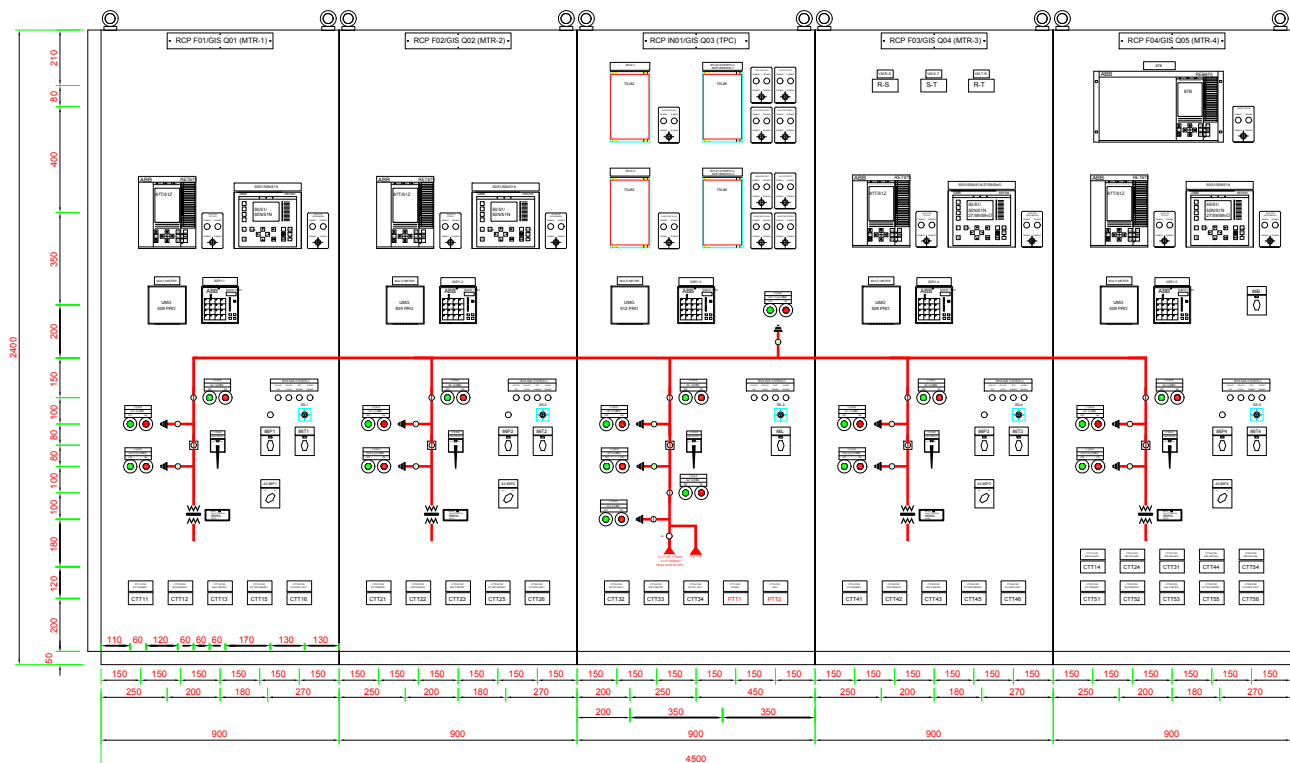
1 2 3 4 5 6 7 8

## RELAY CONTROL PANEL SPECIFICATION

ITEM	EQUIPMENTS	DESCRIPTION	BRAND	TYPE	RCP F01	RCP F02	RCP IN01	RCP F03	RCP F04								SUB TOTAL
1	87L	LINE DIFFERENTIAL RELAY	Siemens	7SL86			2										2
2	67/67N	DIRECTIONAL OVER CURRENT RELAY															
3	50+2		Siemens	7SJ82			2										2
4	87B	BUS DIFFERENTIAL RELAY	ABB	REB670 19**1					1								1
5	27/59/59Vo	UNDER/OVER/GROUND VOLTAGE RELAY	ABB	REF630	1	1		1	1								4
6	81H-L	FREQUENCY RELAY															
7	50/51/50N/51N	OVER CURRENT RELAY															
8	87T/51G	TR. DIFFERENTIAL RELAY	ABB	RET670	1	1		1	1								4
9	51G	TR. GROUND OVER CURRENT RELAY															
10	30RY	ANNUNCIATER 16CH	ABB	SACO 16D1-AA	1	1	1	1	1								5
11																	
12	MULTI METER	V/A/KW/KVAR METER	Janitza	UMG512			1										1
13	MULTI METER	V/A/KW/KVAR METER	Janitza	UMG509	1	1		1	1								4
14	VM	VOLTAGE METER	HC	UMV				3									3
15	86T1~86T4,86P1~86P4,86L	LOCK OUT RY	E/S	LOR7805G	2	2	1	2	2								9
16	86B	LOCK OUT RY	E/S	LOR7810G					1								1
17																	
18	43-86P		FUJI 不二	B-SB2001 (2B2A)	1	1		1	1								4
19	CB CONTROL SWITCH	PULL OPERATION (OFF - 0 - ON)	FUJI 不二	B-SB2001 (2B2A)	1	1	1	1	1								5
20	CURRENT TEST TERMINAL	500V DC/AC 10A	FUJI 不二	KTT-AW4B	5	5	2	7	7								38
21	VOLTAGE TEST TERMINAL	500V DC/AC 10A	FUJI 不二	KTT-VS4B			4										4
22	CUBICLE ILLUMINATION	LED AC100~240V 50/60HZ 10W	東亞	LTS21441XAA	1	1	1	1	1								6
23	R / G / W LAMP INDICATOR	22mm 110V DC LED	AB	800F-D0C	13	13	4	4	4								44
24	CB/DS/ES POSTTION INDICATOR	22mm 110V DC R/G LED	LANDING	PPL22A-DS/127AD	7	7	5	5	5								29
25	DS/ES ON-OFF PUSH BUTTON	22mm 2NO R/G	IDEC	ABW120+HW9Z-KL1	12	12	8	8	8								48
26	MCCB	1P 2A	ABB	S201-C2			1										1
27	MCCB	2P 4A,6A,10A	ABB	S202-C4,C6,C10	3	2	2	2	2								13
28	MCCB	3P 2A	ABB	S203-C2			1										1
29	KEY SELECT SWITCH	22mm 2NO+2NC	IDEC	ASW2K-22	4	4											11
30	KEY SELECT SWITCH	22mm 4NO+4NC	K&N	CA10 A723	1	1	1	1	1								5
31	TERMINNAL BLOCK	600V AC/DC 40A (CT/VT)	IDEC	BNH-30W													
32	TERMINNAL BLOCK	600V AC/DC 21A	IDEC	BNH-15LW													
33	AUX RELAY	DC110V 4a/4b	OMRON	MY4N	5	4	4	4	4								25
34																	
35	Cubicle cover sheets colour (outside/inside)	RAL7035 THICKNESS: 60μ	LOCAL		1	1	1	1	1								5
36	Wire colour, Conductor cross section CT	Block, 10AWG(5.26mm²) 600V 105℃	PEWC														
37	Wire colour, Conductor cross section PT	Red, 12AWG(3.31mm²) 600V 105℃	PEWC														
38	Wire colour, Conductor cross section AC	Yellow, 14AWG(2.08mm²) 600V 105℃	PEWC														
39	Wire colour, Conductor cross section DC P	Blue, 14AWG(2.08mm²) 600V 105℃	PEWC														
40	Wire colour, Conductor cross section DC N	Blue, 14AWG(2.08mm²) 600V 105℃	PEWC														
41	Wire colour, Conductor cross section Earthing	Green, 14AWG(2.08mm²) 600V 105 C	PEWC														
42																	
43																	
44																	
45																	

			Project	VENA ENERGY	Approved by	Date	2021-06-18	Title		Doc. des.	DWG. NO.	VENA-M01
			161KV GIS S/S PROJECT		Checked by	Date	2021-06-18	MATERIAL LIST		Resp. dept.	Scale	Lang.
For Approval	2021-07-08	A	Customer	韋能台西	Prepared by	Date	2021-06-18	台灣日立電網股份有限公司		Doc. No.		Sheet 1
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua							Cont. ~

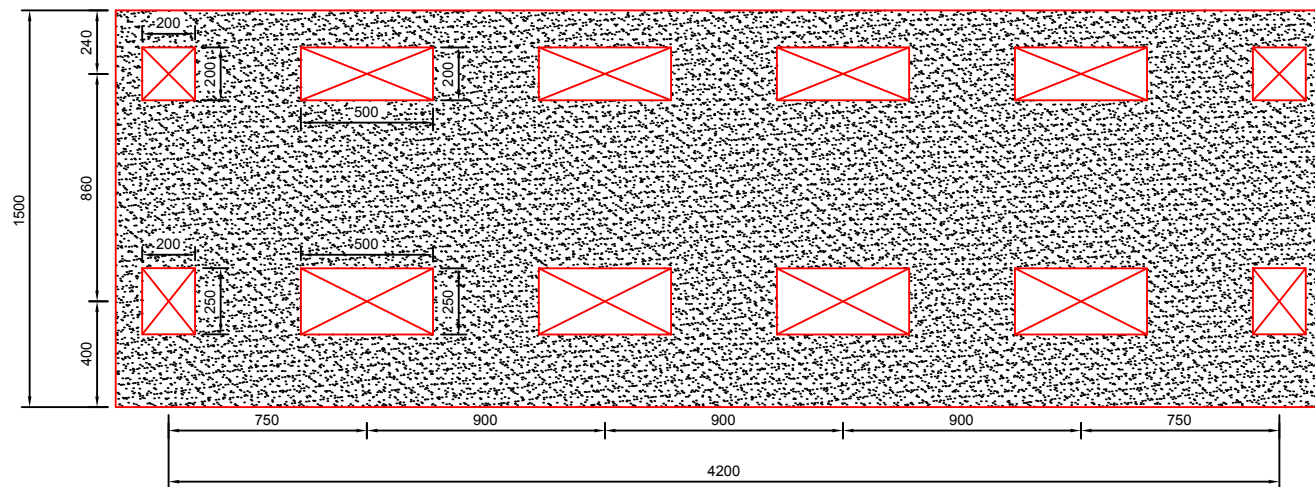
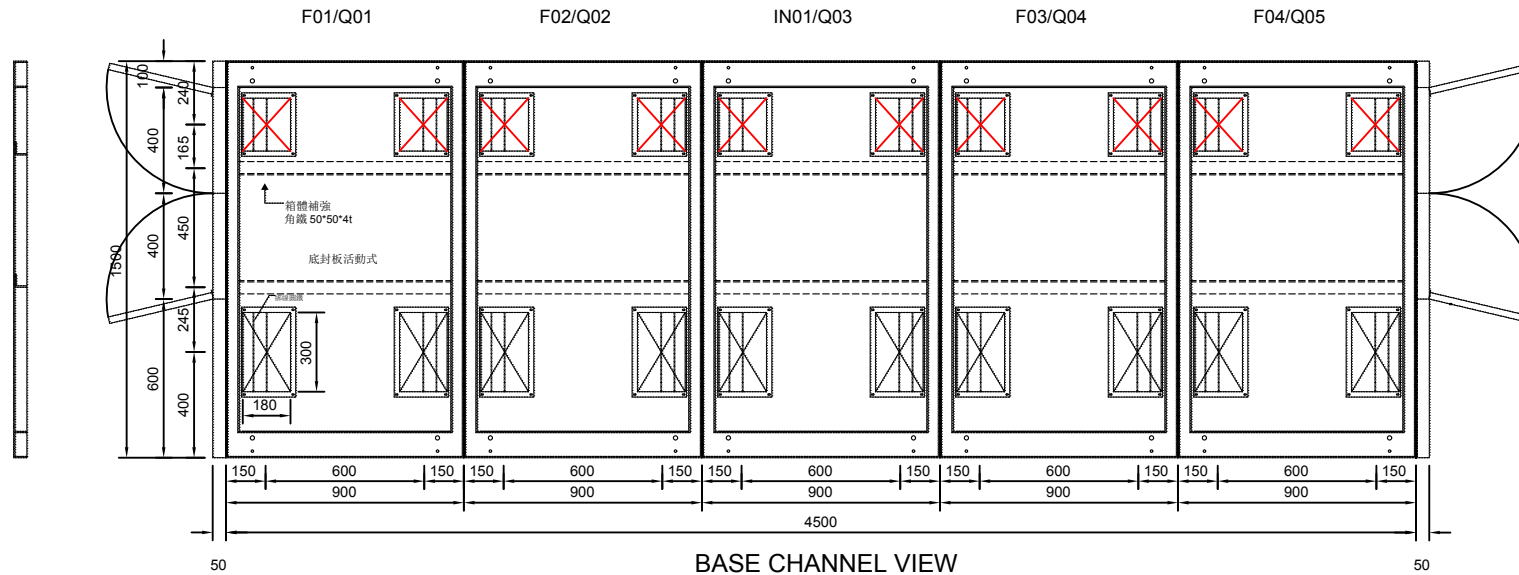
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FRONT VIEW

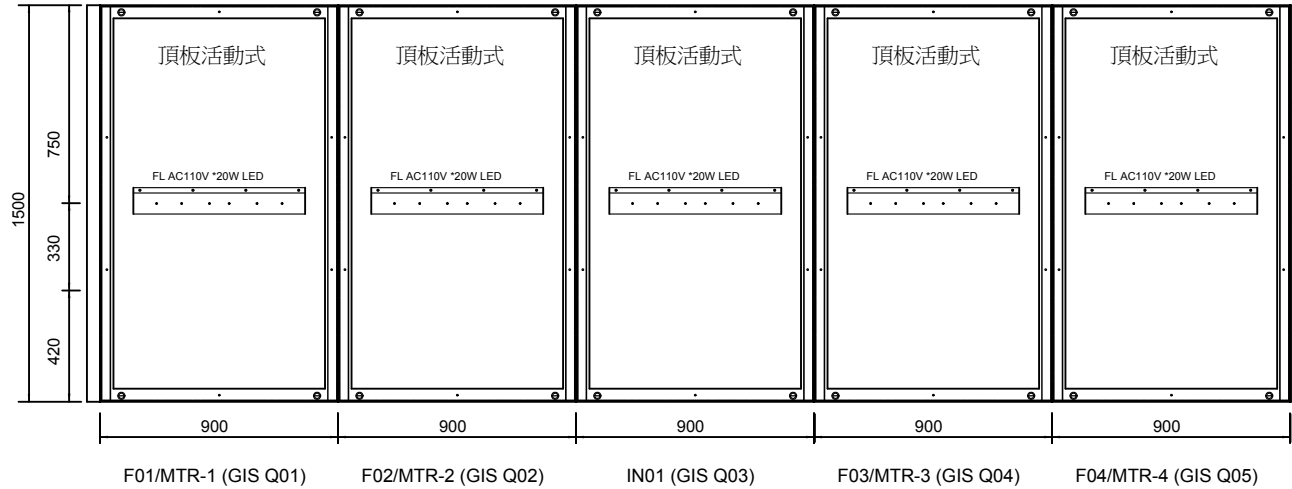
		Project		VENA ENERGY	Approved by	Date	Title		Doc. des.	DWG. NO. VENA- P01	
		161KV GIS S/S PROJECT			Jeff Lu	2021-06-18	161KV CONTROL PANEL				
					Checked by	Date	FRONT VIEW		Resp. dept.	Scale	Lang.
					Jeff Lu	2021-06-18					
For Approval	2021-07-08	A	Customer	韋能台西	Prepared by	Date	台灣日立電網股份有限公司		Doc. No.	Sheet 1	
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			Project			VENA ENERGY	Approved by	Date	Title	161KV CONTROL PANEL BASE CHANNEL VIEW	Doc. des.	DWG. NO. VENA- P02	
			161KV GIS S/S PROJECT				Checked by	Date			Resp. dept.	Scale	Lang.
For Approval	2021-07-08	A	Customer 韋能台西				Prepared by	Date	台灣日立電網股份有限公司	Doc. No.	Sheet 1		
Issued for	Date	Rev.	Derived fm	Replaces			Chuan Hua	2021-06-18			Cont. ~		

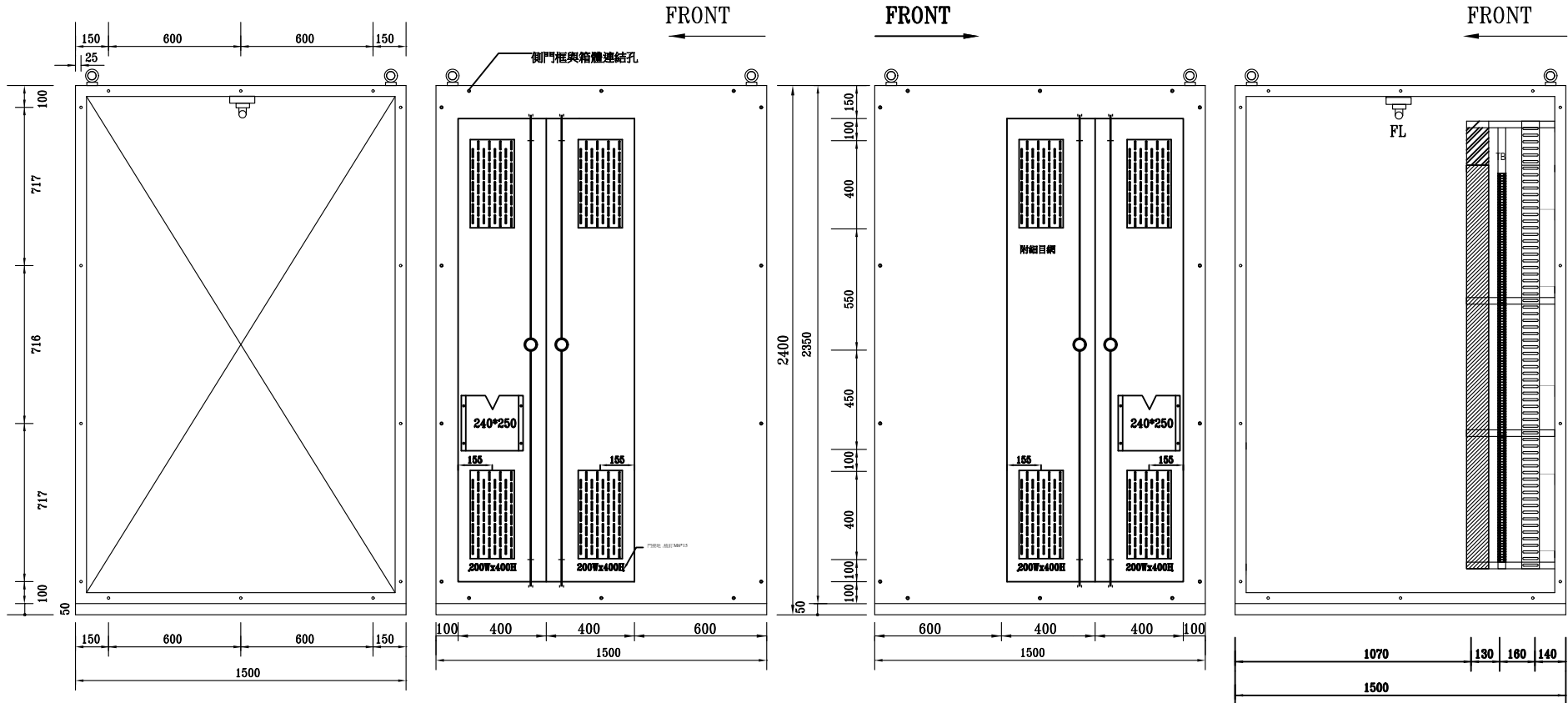
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TOP CHANNEL VIEW

		Project		VENA ENERGY	Approved by	Date	Title	Doc. des.		DWG. NO. VENA-P03	
		161KV GIS S/S PROJECT			Jeff Lu	2021-06-18					
					Checked by	Date	台灣日立電網股份有限公司	Resp. dept.		Scale	Lang.
					Jeff Lu	2021-06-18					
For Approval	2021-07-08	A	Customer 韋能台西		Prepared by	Date		Doc. No.		Sheet 1	
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua	2021-06-18				Cont. ~	

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盤連結孔

LEFT SIDE VIEW

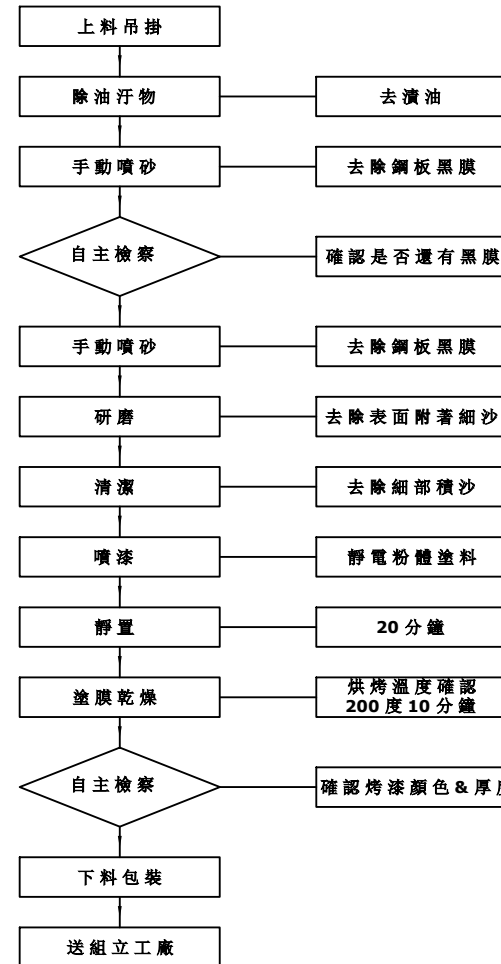
RIGHT SIDE VIEW

RIGHT&LEFT INSIDE VIEW

		Project		VENA ENERGY	Approved by Jeff Lu	Date 2021-06-18	Title 161KV CONRTOL PANEL SIDE VIEW	Doc. des.		DWG. NO. VENA-P04	
		161KV GIS S/S PROJECT						Resp. dept.		Scale	Lang.
For Approval	2021-07-08	A	Customer	韋能台西	Checked by Jeff Lu	Date 2021-06-18	台灣日立電網股份有限公司	Doc. No.		Sheet 1	
Issued for	Date	Rev.	Derived fm	Replaces	Prepared by Chuan Hua	Date 2021-06-18				Cont. ~	



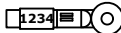

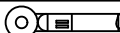







# 配電盤塗裝流程



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		Project		VENA ENERGY	Approved by	Date	2021-06-18	Title	電驛及控制盤製裝規範(一)		Doc. des.	DWG. NO. VENA-Q01	
		161KV GIS S/S PROJECT			Checked by	Date	2021-06-18				Resp. dept.	Scale	Lang.
For Approval	2021-07-08	A	Customer	韋能台西	Prepared by	Date	2021-06-18	台灣日立電網股份有限公司		Doc. No.			Sheet 1
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua								Cont. ~

線徑及顏色(僅盤內部份)			<input checked="" type="checkbox"/> 模擬母線顏色		相序/極性排列				
種 類		線 徑	線 色	電 壓	顏 色	種 類	標 準	其 他	
		標 準	標 準	345KV	橙 色	交流	由左至右	R-S-T-N	
CT二次側回路		10AWG	黑 色	161KV	紅 色		由上至下	R-S-T-N	
PT二次側回路		12AWG	紅 色	69KV	藍 色		由前至後	R-S-T-N	
交流控制回路		14AWG	黃 色	34.5KV	棕 色	直流	由左至右	P-N	
直流控制回路		14AWG	藍 色	22KV	粉紅色		由上至下	P-N	
接地線	CT PT二次側	10AWG	綠 色	11KV	白 色		由前至後	P-N	
	儀表設備	14AWG	綠 色	接 地	黃底黑線條				
終 端 處 理 方 式				電線種類	PVC絞線	控制及操作電壓			
CT PT二次側回路		絕緣端子				斷路器控制電路		<input checked="" type="checkbox"/> DC 125V	
控制線路		絕緣端子				加熱器及日光燈及散熱風扇		<input checked="" type="checkbox"/> AC 220V	
						線號排列方向			
端 子 型 式									
CT二次側回路		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>					
PT二次側回路		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>					
控制回路		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>					

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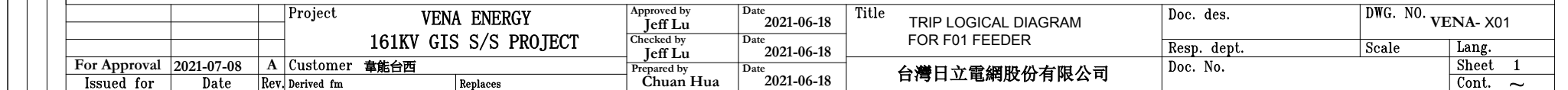
			Project			Approved by	Date	Title	Doc. des.	DWG. NO.	
			VENA ENERGY			Jeff Lu	2021-06-18			VENA-Q02	
			161KV GIS S/S PROJECT			Checked by	Date	電驛及控制盤製裝規範(二)	Resp. dept.	Scale	Lang.
						Jeff Lu	2021-06-18				
For Approval	2021-07-08	A	Customer			Prepared by	Date				
Issued for	Date	Rev.	Derived fm	Replaces	Chuan Hua	2021-06-18	Cont.	~			
			韋能台西								

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使 用 環 境		盤 體 完 成 後 塗 裝	
周圍溫度範圍	屋外	塗裝處理依塗裝工程規範書	
	屋內-5°C~40°C	表面顏色	<input type="checkbox"/> 台灣油漆公會 NO.
相對濕度	最高90%		<input checked="" type="checkbox"/> RAL7035 垂紋漆 國邦790-49780H
高度	海拔1000公尺以下	內部顏色	<input type="checkbox"/> 台灣油漆公會 NO.
安裝地點	<input checked="" type="checkbox"/> 屋內 <input type="checkbox"/> 屋外		<input checked="" type="checkbox"/> RAL7035 垂紋漆 國邦790-49780H
電纜進出方式	<input checked="" type="checkbox"/> 底部 <input type="checkbox"/> 頂部	塗料材質	<input checked="" type="checkbox"/> 環氧/聚脂/填充料/色料/添加劑
盤 體 構 造		盤 體 材 質	
前面	<input type="checkbox"/> 門 <input checked="" type="checkbox"/> 板式	前板/後門板	<input checked="" type="checkbox"/> 鋼板 (SPHC) 3.2mm
後面	<input checked="" type="checkbox"/> 門 <input type="checkbox"/> 背板	側板	<input checked="" type="checkbox"/> 鋼板 (SPHC) 2.3mm
側面	<input type="checkbox"/> 側板 <input type="checkbox"/> 側門 <input checked="" type="checkbox"/> 板式	底板	<input checked="" type="checkbox"/> 鋼板 (SPHC) 2.3mm
底部	<input checked="" type="checkbox"/> 底板 <input type="checkbox"/> 放空	頂板	<input checked="" type="checkbox"/> 鋼板 (SPHC) 2.3mm
頂部	<input checked="" type="checkbox"/> 頂板 <input type="checkbox"/> 屋頂	主骨架	<input checked="" type="checkbox"/> 角鋼 (ss41) L50*50*5t
保護構造	<input checked="" type="checkbox"/> 一般型 <input type="checkbox"/> 防塵型 <input type="checkbox"/> 防滴型	基礎座	<input checked="" type="checkbox"/> 槽鋼 100*50*5t 及角鐵50*50*5t 焊接組立
兩側開雙開門,開門處加PACKING		銘牌	<input checked="" type="checkbox"/> 壓克力,白底黑字
		盤 體 重 量	
		單一盤體重量	約500kg

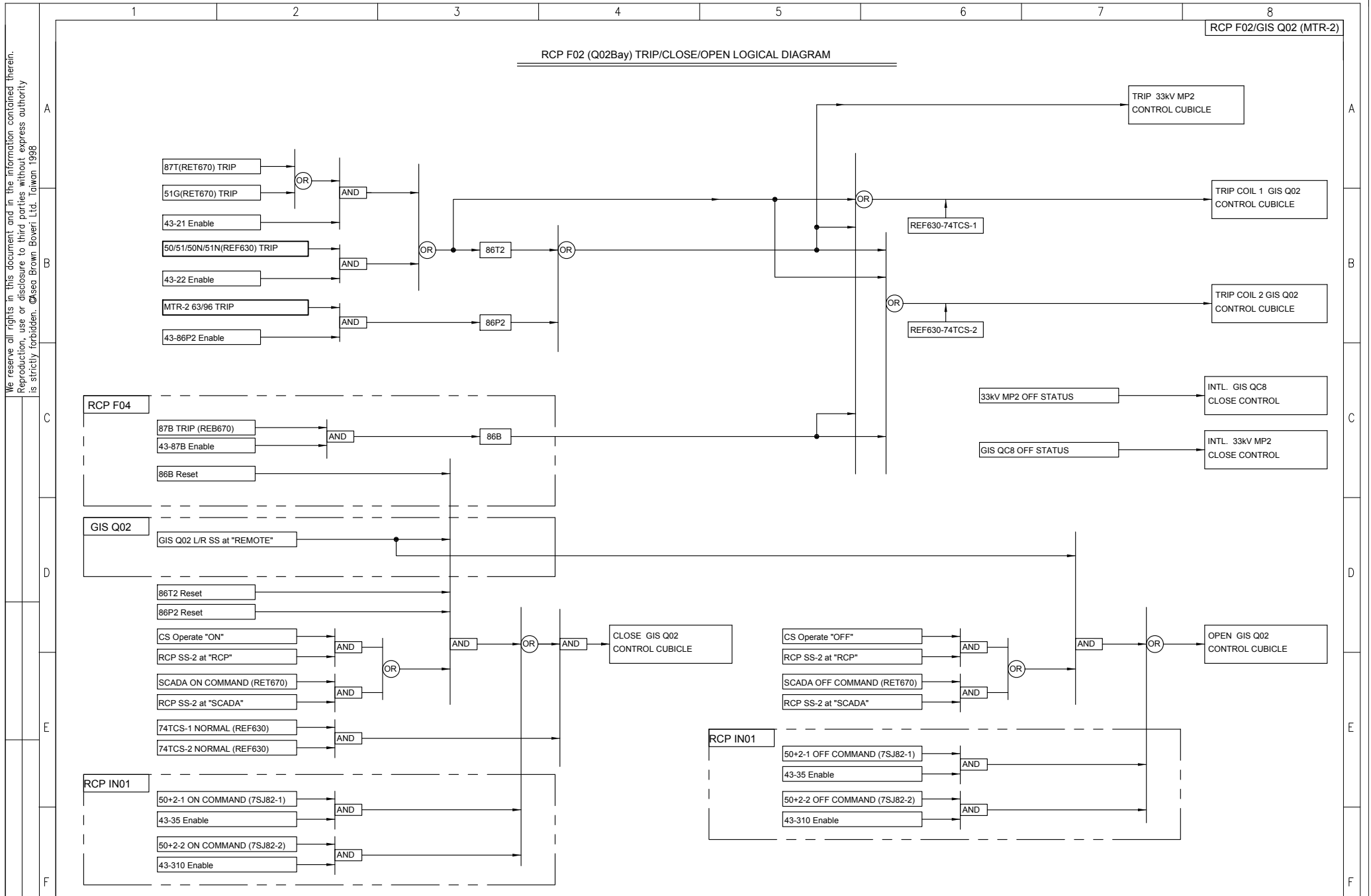
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			Project	VENA ENERGY	Approved by	Jeff Lu	Date	2021-06-18	Title	電驛及控制盤製裝規範(三)	Doc. des.	DWG. NO.	VENA-Q03	
				161KV GIS S/S PROJECT	Checked by	Jeff Lu	Date	2021-06-18						
For Approval	2021-07-08	A	Customer	韋能台西	Prepared by	Chuan Hua	Date	2021-06-18	台灣日立電網股份有限公司	Doc. No.	Resp. dept.	Scale	Lang.	Sheet 1
Issued for	Date	Rev.	Derived fm	Replaces										



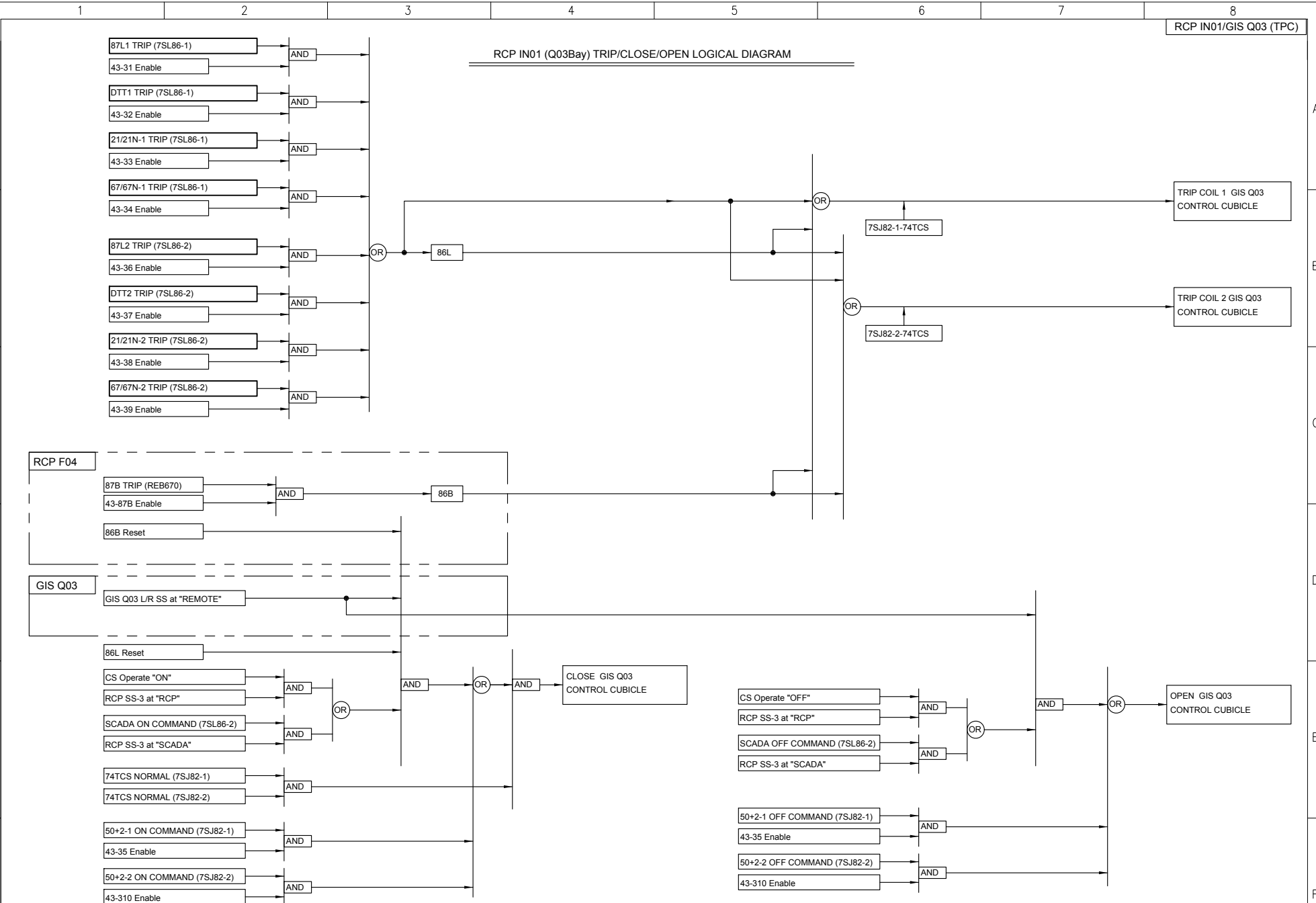
			Project			VENA ENERGY	Approved by	Date	Title	TRIP LOGICAL DIAGRAM FOR F01 FEEDER	Doc. des.	DWG. NO.		VENA- X01
			161KV GIS S/S PROJECT			Jeff Lu	2021-06-18							
						Checked by	Date				Resp. dept.	Scale	Lang.	
						Jeff Lu	2021-06-18							
For Approval	2021-07-08	A	Customer			韋能台西	Prepared by	Date	台灣日立電網股份有限公司	Doc. No.			Sheet 1	
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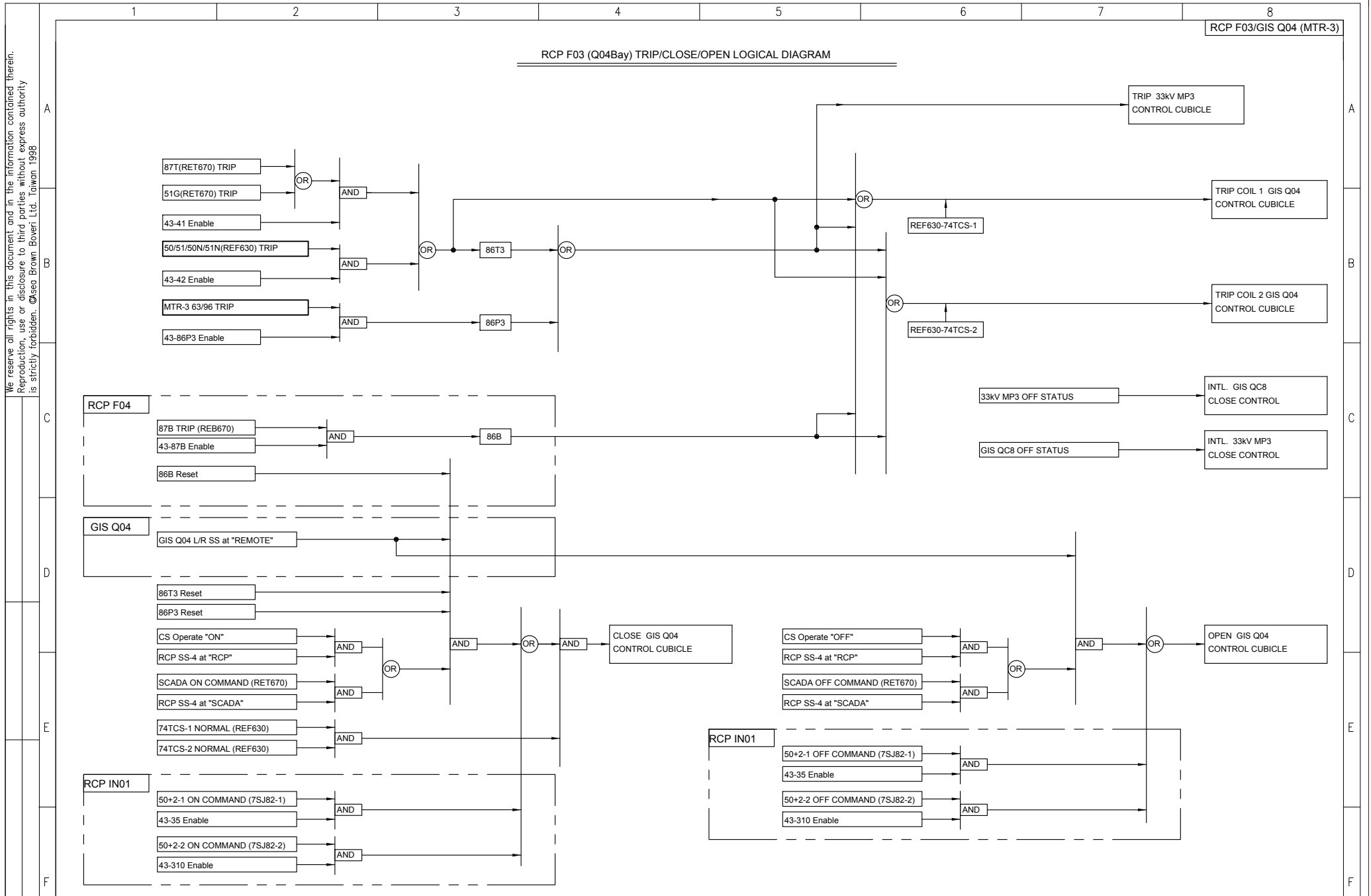
			Project		VENA ENERGY	Approved by	Date	Title	TRIP LOGICAL DIAGRAM FOR F02 FEEDER	Doc. des.	DWG. NO. VENA- X02			
					161KV GIS S/S PROJECT	Jeff Lu	2021-06-18			Checked by	Date	2021-06-18	Resp. dept.	Scale
For Approval	2021-07-08	A	Customer		韋能台西	Prepared by	Date	台灣日立電網股份有限公司	Doc. No.				Sheet	1
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			Project			VENA ENERGY	Approved by	Date	Title	TRIP LOGICAL DIAGRAM FOR IN01 FEEDER	Doc. des.	DWG. NO. VENA- X03		
			161KV GIS S/S PROJECT				Jeff Lu	2021-06-18						
							Checked by	Date			Resp. dept.	Scale	Lang.	
							Jeff Lu	2021-06-18						
For Approval	2021-07-08	A	Customer			韋能台西	Prepared by	Date	台灣日立電網股份有限公司		Doc. No.	Sheet 1		
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			Project			VENA ENERGY	Approved by	Date	2021-06-18	Title	TRIP LOGICAL DIAGRAM	Doc. des.	DWG. NO. VENA- X04	
			161KV GIS S/S PROJECT				Checked by	Date	2021-06-18		FOR F03 FEEDER			
												Resp. dept.	Scale	Lang.
For Approval	2021-07-08	A	Customer 韋能台西				Prepared by	Date		台灣日立電網股份有限公司		Doc. No.	Sheet 1	
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