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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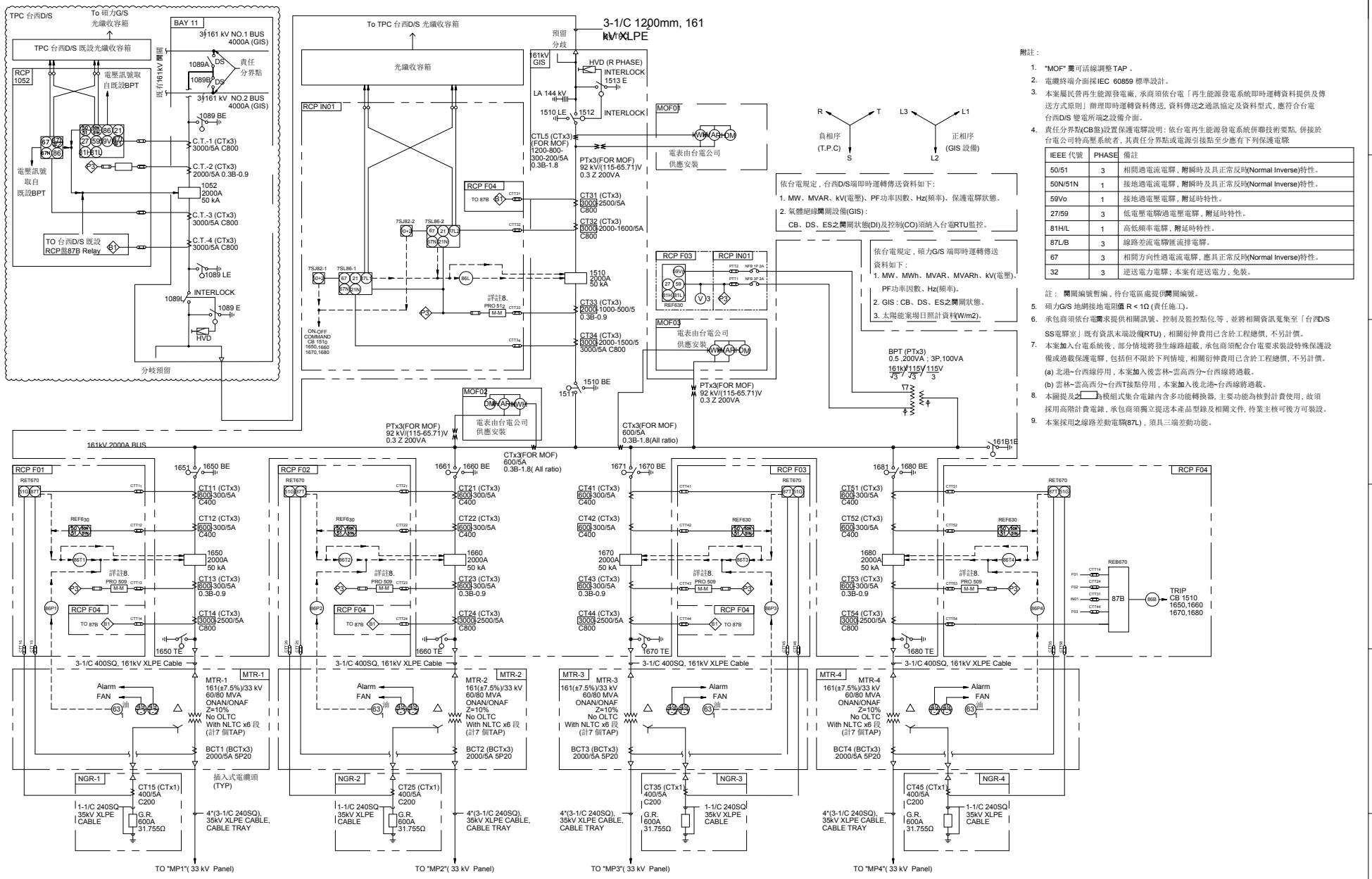
			Project	VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title DIAGRAM LIST	Doc. des.	DWG. NO. VENA- A01
For Approval	2021-09-08	C							
For Approval	2021-09-06	B			Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale / Lang.
For Approval	2021-08-17	A	Customer 韋能台西						
Issued for	Date	Rev.	Derived fm	Replaces	Prepared by Chuan Hua	Date 2021-06-18	台灣日立電網股份有限公司	Doc. No.	Sheet 1 Cont. ～

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		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 TRANSOUCER
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

For Approval	2021-09-08	C	Project VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title LEGEND ILLUSTRATION	Doc. des. / DWG. NO. VENA-B01
For Approval	2021-09-06	B		Checked by Jeff Lu	Date 2021-06-18		Resp. dept. / Scale / Lang.
For Approval	2021-08-17	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. / Sheet 1 / Cont. ～
Issued for	Date	Rev.	Derived fm / Replaces				



依台電規定，台西D/S端即時運轉傳送資料如下:
1. MW、MVAR、kV(電壓)、PF功率因數、Hz(頻率)、保護電驛狀態。
2. 氣體絕緣開關設備(GIS) :
CB、DS、ES之開關狀態(DI)及控制(CO)須納入台電RTU監控。

依台電規定，碩力G/S 端即時運轉傳送資料如下 :
1. MW、MWh、MVAR、MVARh、kV(電壓)、PF功率因數、Hz(頻率)。
2. GIS : CB、DS、ES之開關狀態。
3. 太陽能案場日照計資料(W/m2)。

附註 :

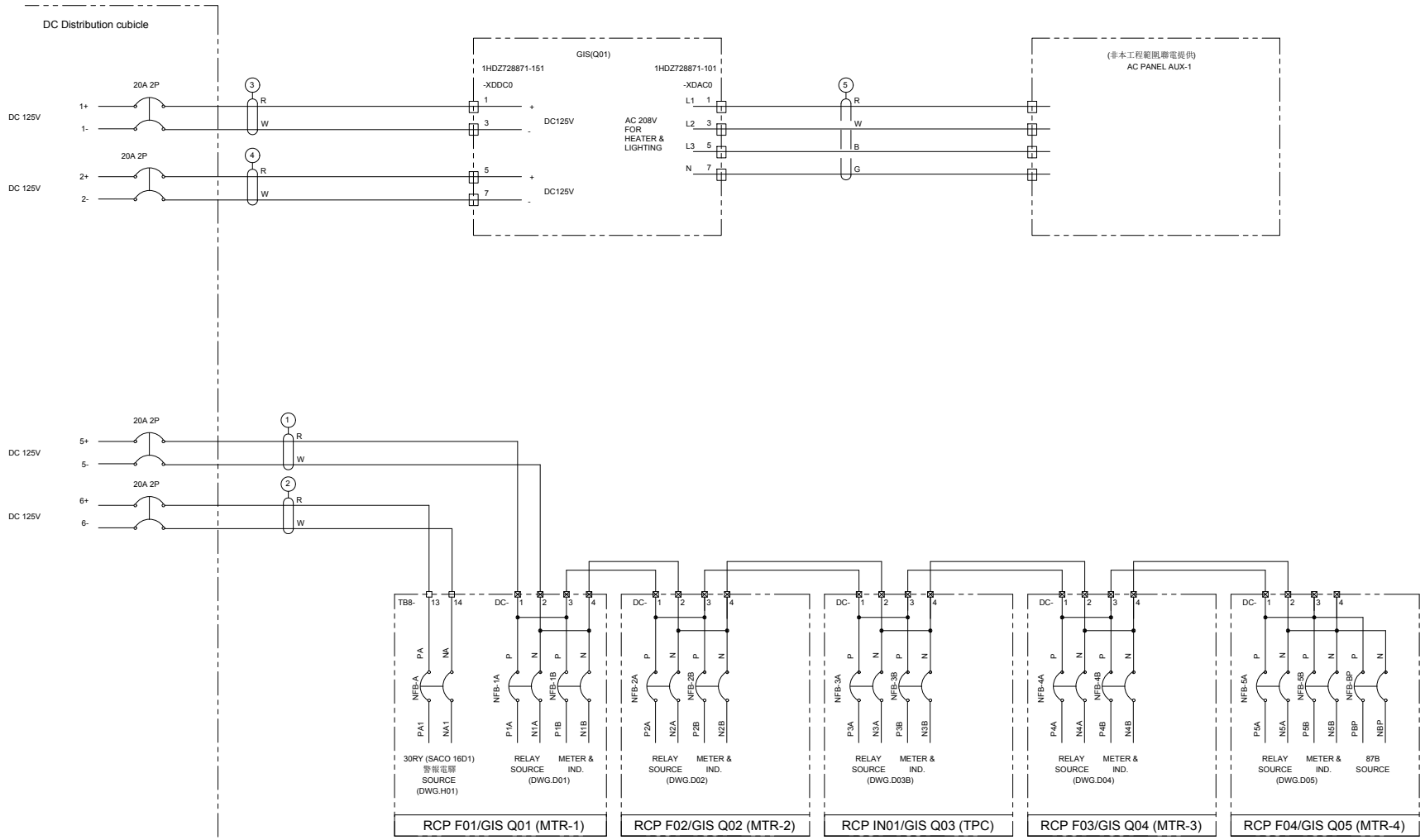
1. "MOF" 需可活線調整 TAP 。
2. 電纜終端介面採IEC 60859 標準設計。
3. 本案屬民營再生能源發電廠，承商須依台電「再生能源發電系統即時運轉資料提供及傳送方式原則」辦理即時運轉資料傳送，資料傳送之通訊協定及資料型式，應符合台電台西D/S 變電所端之設備介面。
4. 責任分界點(CB盤)設置保護電驛說明 : 依台電再生能源發電系統併聯技術要點, 併接於台電公司特高壓系統者，其責任分界點或電源引接點至少應有下列保護電驛

IEEE 代號	PHASE	備註
50/51	3	相間過電流電驛，附瞬時及具正常反時(Normal Inverse)特性。
50N/51N	1	接地過電流電驛，附瞬時及具正常反時(Normal Inverse)特性。
59Vo	1	接地過電壓電驛，附延時特性。
27/59	3	低電壓電驛/過電壓電驛，附延時特性。
81H/L	1	高低頻率電驛，附延時特性。
87L/B	3	線路差流電驛/匯流排電驛。
67	3	相間方向性過電流電驛，應具正常反時(Normal Inverse)特性。
32	3	逆送電力電驛；本案有逆送電力，免裝。

註： 開關編號暫編，待台電區處提供開關編號。

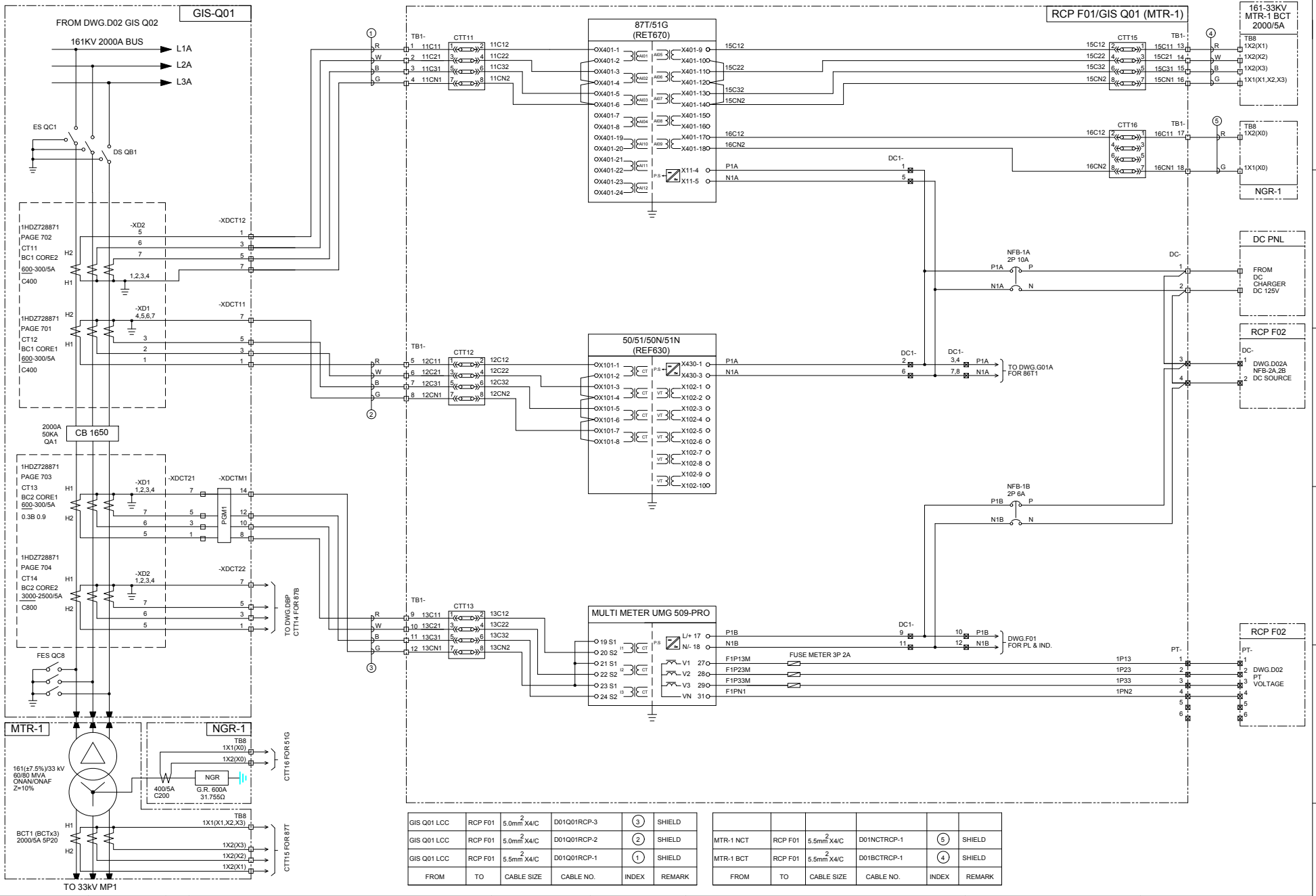
5. 碩力G/S 地網接地電阻值 R < 1Ω (責任施工)。
6. 承包商須依台電需求提供相關訊號、控制及監控點位,等，並將相關資訊蒐集至「台西D/S SS電驛室」既有資訊未端設備(RTU)，相關衍伸費用已含於工程總價, 不另計價。
7. 本案加入台電系統後，部分情境將發生線路超載, 承包商須配合台電要求裝設特殊保護設備或過載保護電驛，包括但不限於下列情境，相關衍伸費用已含於工程總價, 不另計價。
(a) 北港~台西線停用，本案加入後雲林~雲高西分~台西線將過載。
(b) 雲林~雲高西分~台西T接點停用，本案加入後北港~台西線將過載。
8. 本圖提及之 [ ] 為模組式集合電錶內含多功能轉換器，主要功能為核對計費使用，故須採用高階計費電錶，承包商須獨立提送本產品型錄及相關文件, 待業主核可後方可裝設。
9. 本案採用之線路差動電驛(87L) , 須具三端差動功能。

			Project	VENA ENERGY 161KV GIS S/S PROJECT	Approved by	Date	Title	Doc. des.	DWG. NO. VENA-C01	
For Approval	2021-09-08	C			Jeff Lu	2021-06-18	SINGLE LINE DIAGRAM			
For Approval	2021-09-06	B			Checked by	Date		Resp. dept.	Scale	Lang.
For Approval	2021-08-17	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. ～



FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK
AC PANEL	GIS Q01	5.5mm² X4/C	C02ACPGIS-1	5	
DC PANEL	GIS Q01	5.5mm² X4/C	C02DCPGIS-2	4	
DC PANEL	GIS Q01	5.5mm² X4/C	C02DCPGIS-1	3	
DC PANEL	RCP F01	5.5mm² X4/C	C02DCPRCP-2	2	
DC PANEL	RCP F01	5.5mm² X4/C	C02DCPRCP-1	1	

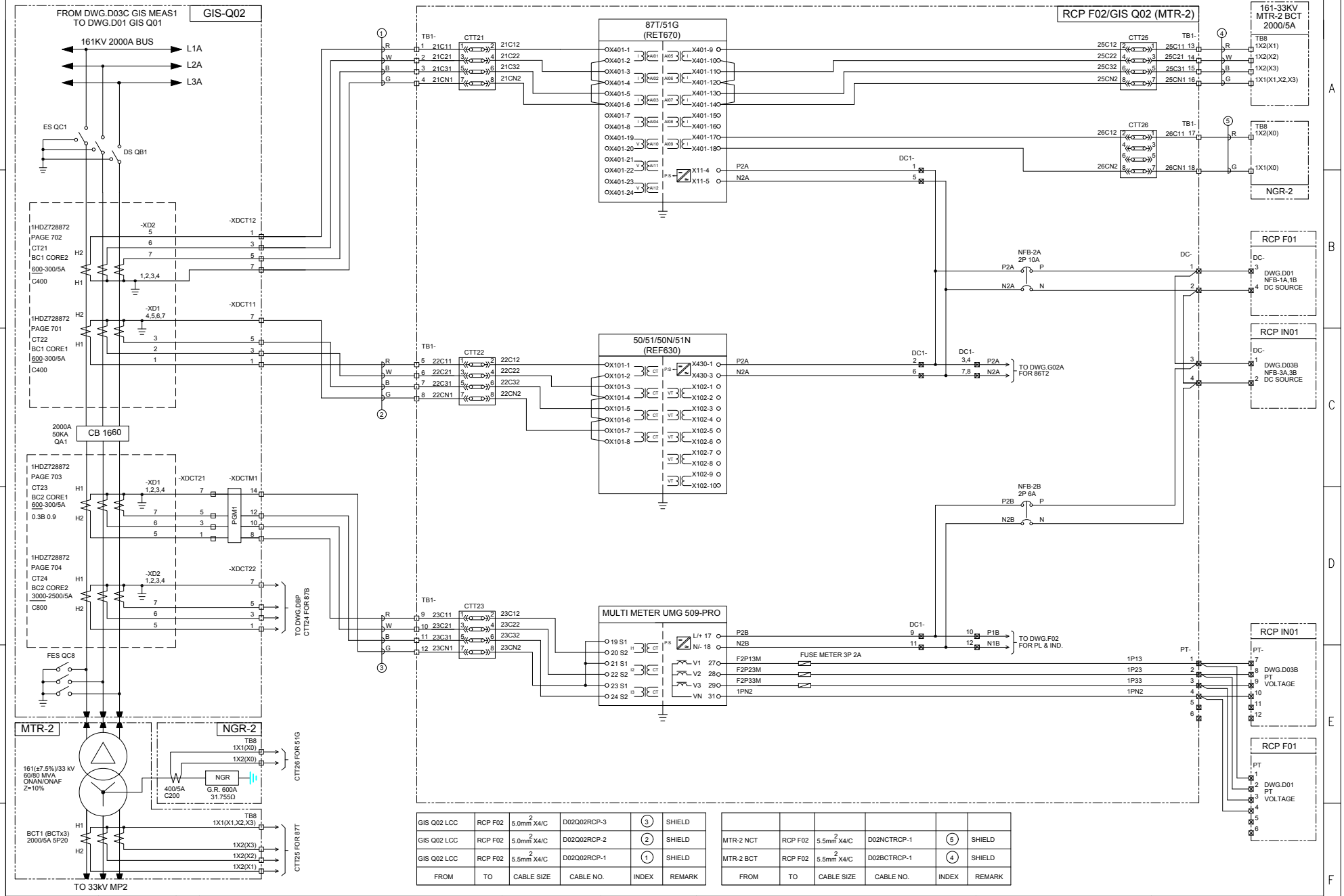
For Approval	2021-09-08	C	Project	VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title DC POWER SUPPLY DIAGRAM	Doc. des.	DWG. NO. VENA-C02
For Approval	2021-09-06	B			Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale / Lang.
For Approval	2021-08-17	A	Customer 韋能台西		Prepared by Chuan Hua	Date 2021-06-18	台灣日立電網股份有限公司	Doc. No.	Sheet 1
Issued for	Date	Rev.	Derived fm	Replaces					Cont. ～



GIS Q01 LCC	RCP F01	5.0mm² X4/C	D01Q01RCP-3	3	SHIELD
GIS Q01 LCC	RCP F01	5.0mm² X4/C	D01Q01RCP-2	2	SHIELD
GIS Q01 LCC	RCP F01	5.5mm² X4/C	D01Q01RCP-1	1	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

MTR-1 NCT	RCP F01	5.5mm² X4/C	D01NCTRCP-1	5	SHIELD
MTR-1 BCT	RCP F01	5.5mm² X4/C	D01BCTRCP-1	4	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

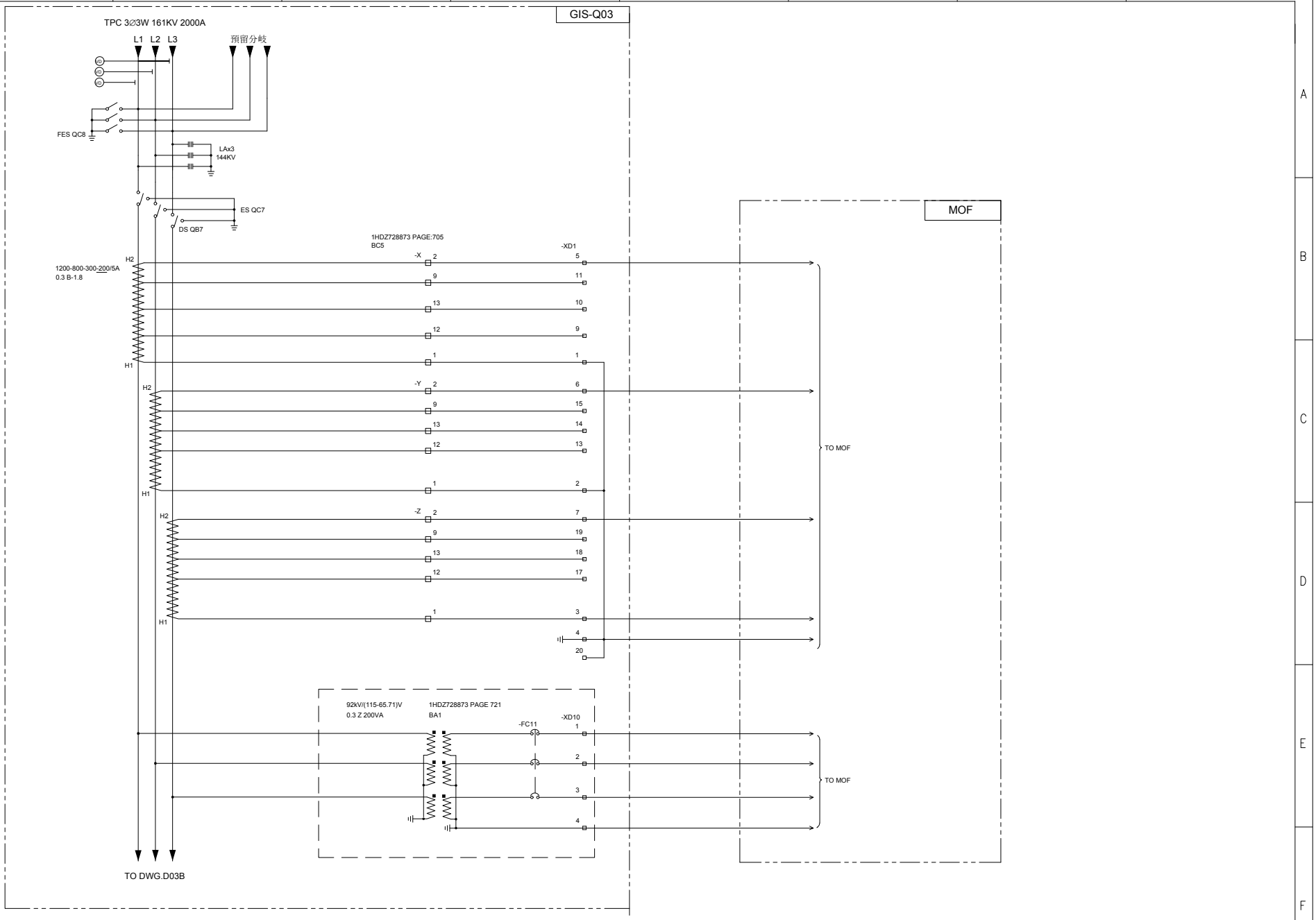
For Approval	2021-09-08	C	Project	VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title GIS Q01 CT & RCP F01 PROTECTION RELAY CIRCUIT DIAGRAM	Doc. des.	DWG. NO. VENA-D01
For Approval	2021-09-06	B			Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale / Lang.
For Approval	2021-08-17	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.	Sheet 1
Issued for	Date	Rev.	Derived fm	Replaces					Cont. ～



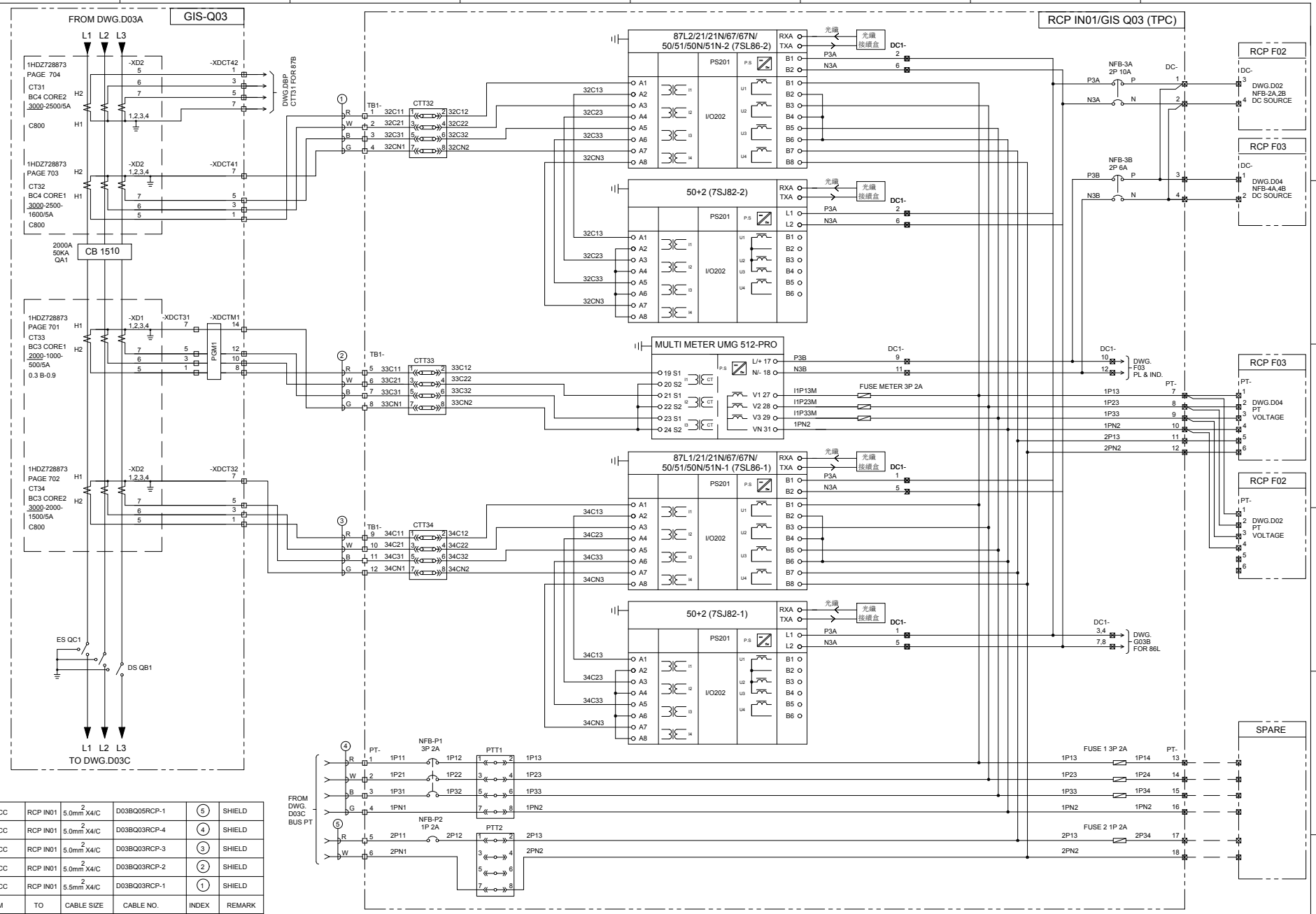
GIS Q02 LCC	RCP F02	5.0mm² X4/C	D02Q02RCP-3	3	SHIELD
GIS Q02 LCC	RCP F02	5.0mm² X4/C	D02Q02RCP-2	2	SHIELD
GIS Q02 LCC	RCP F02	5.5mm² X4/C	D02Q02RCP-1	1	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

MTR-2 NCT	RCP F02	5.5mm² X4/C	D02NCTRCP-1	5	SHIELD
MTR-2 BCT	RCP F02	5.5mm² X4/C	D02BCTRCP-1	4	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

For Approval	2021-09-08	C	Project	VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title GIS Q02 CT & RCP F02 PROTECTION RELAY CIRCUIT DIAGRAM	Doc. des.	DWG. NO. VENA-D02
For Approval	2021-09-06	B			Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale / Lang.
For Approval	2021-08-17	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.	Sheet 1
Issued for	Date	Rev.	Derived fm	Replaces					Cont. ～



			Project		Approved by	Date	Title	Doc. des.	DWG. NO.
For Approval	2021-09-08	C	VENA ENERGY		Jeff Lu	2021-06-18	GIS Q03 MOF CT & PT CIRCUIT DIAGRAM		VENA- D03A
For Approval	2021-09-06	B	161KV GIS S/S PROJECT		Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale / Lang.
For Approval	2021-08-17	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.	Sheet 1
Issued for	Date	Rev.	Derived fm	Replaces					Cont. ～



GIS Q05 LCC	RCP IN01	5.0mm² X4/C	D03BQ05RCP-1	5	SHIELD
GIS Q03 LCC	RCP IN01	5.0mm² X4/C	D03BQ03RCP-4	4	SHIELD
GIS Q03 LCC	RCP IN01	5.0mm² X4/C	D03BQ03RCP-3	3	SHIELD
GIS Q03 LCC	RCP IN01	5.0mm² X4/C	D03BQ03RCP-2	2	SHIELD
GIS Q03 LCC	RCP IN01	5.5mm² X4/C	D03BQ03RCP-1	1	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

Issued for	Date	Rev.	Project	Approved by	Date	Title	Doc. des.	DWG. NO.
For Approval	2021-09-08	C	VENA ENERGY 161KV GIS S/S PROJECT	Jeff Lu	2021-06-18	GIS Q03 CT & RCP IN01 PROTECTION RELAY CIRCUIT DIAGRAM		VENA-D03B
For Approval	2021-09-06	B		Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale / Lang.
For Approval	2021-08-17	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.	Sheet 1 / Cont. ～
			Derived fm / Replaces					

GIS-Q05

GIS-Q03

FROM DWG.D03B

L1 L2 L3

1HDZ728873-706
BC11 CORE 1 :
600/5A
CL:0.3 B-1.8

1HDZ728873-707
BC12 CORE 1 :
600/5A
CL:0.3 B-1.8

TO MOF

1HDZ728873-724
BA13 : 92 kV/115-65.71 V CL:0.3Z

1HDZ728873-725
BA12 : 92 kV/115-65.71 V CL:0.3Z

FC11 FC12 -XD10 115V 65.71V

FES
QC11

1HDZ728873-722,723
BA11 : 161 kV/$\sqrt{3}$: 115/$\sqrt{3}$ -115/3

-XDVTM1 -XDVTM1 -XDVT211 -FCVT11 -XDVT212 -FCVT12

DWG.D03B
BUS PT

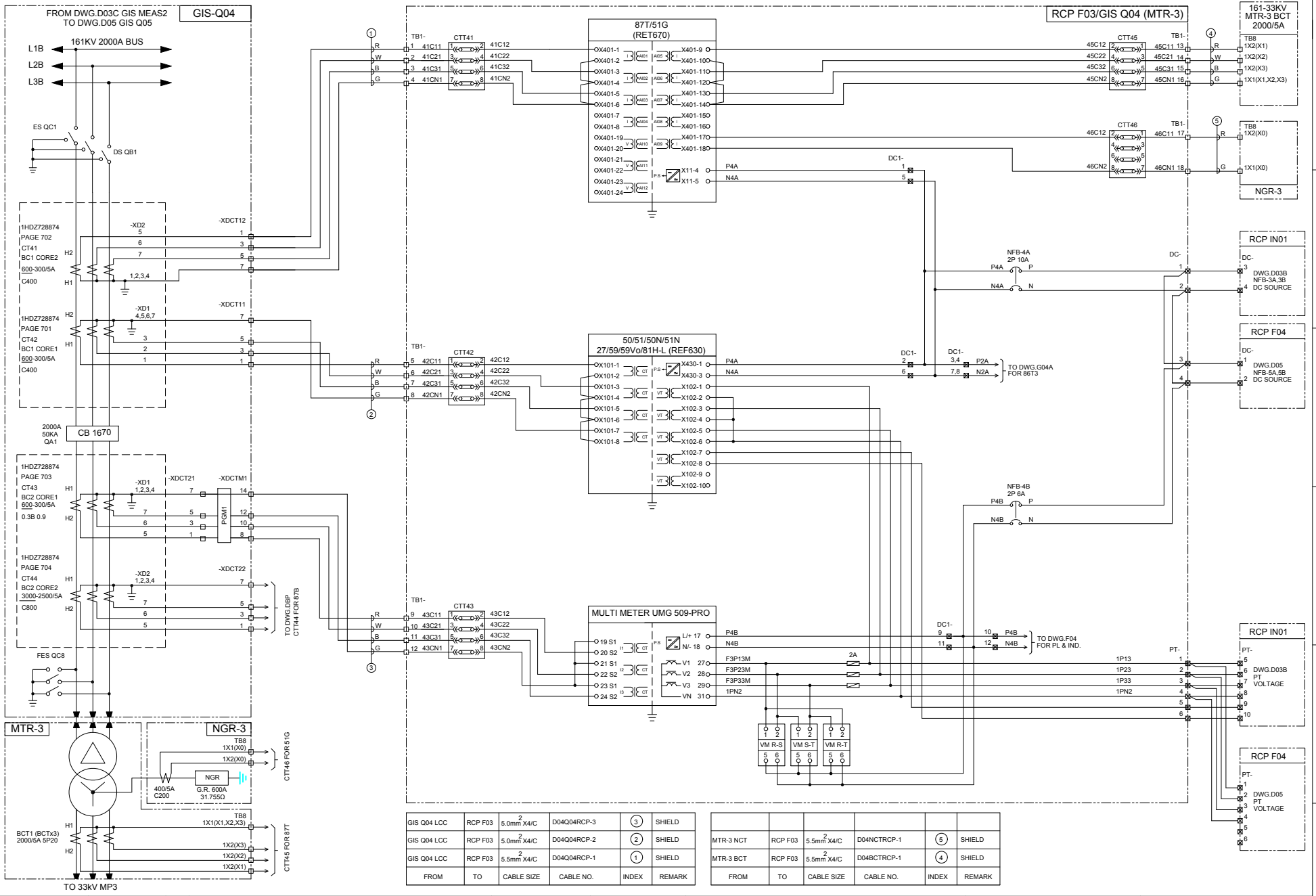
L1A L2A L3A

DWG.D02
GIS Q02

L1B L2B L3B

DWG.D04
GIS Q04

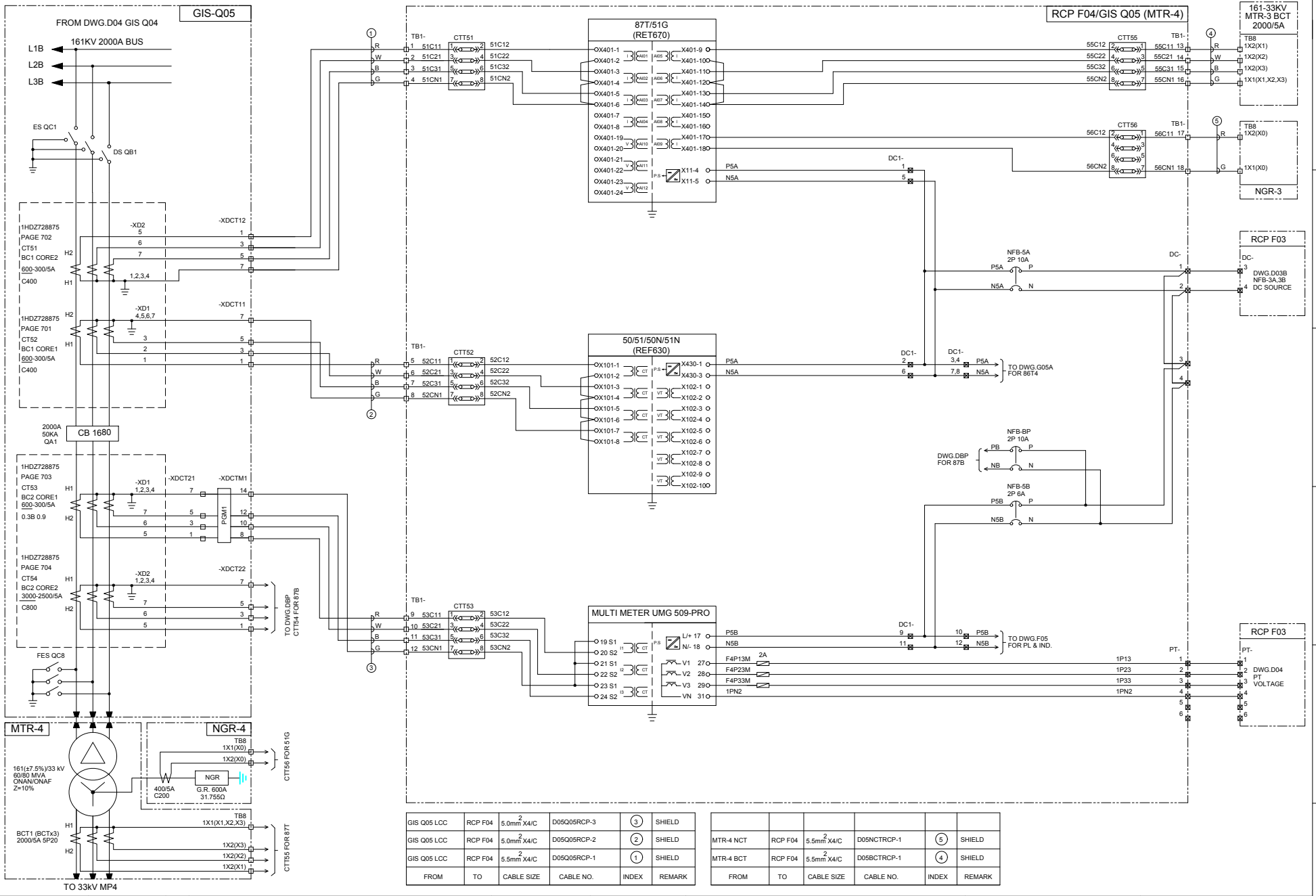
			Project	Approved by	Date	Title	Doc. des.	DWG. NO.
For Approval	2021-09-08	C	VENA ENERGY 161KV GIS S/S PROJECT	Jeff Lu	2021-06-18	GIS Q03 MOF CT / PT / BUS PT CIRCUIT DIAGRAM		VENA-D03C
For Approval	2021-09-06	B		Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale / Lang.
For Approval	2021-08-17	A	Customer 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.	Sheet 1 Cont. ～
Issued for	Date	Rev.	Derived fm / Replaces					



GIS Q04 LCC	RCP F03	5.0mm² X4/C	D04Q04RCP-3	③	SHIELD
GIS Q04 LCC	RCP F03	5.0mm² X4/C	D04Q04RCP-2	②	SHIELD
GIS Q04 LCC	RCP F03	5.5mm² X4/C	D04Q04RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

MTR-3 NCT	RCP F03	5.5mm² X4/C	D04NCTRCP-1	⑤	SHIELD
MTR-3 BCT	RCP F03	5.5mm² X4/C	D04BCTRCP-1	④	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

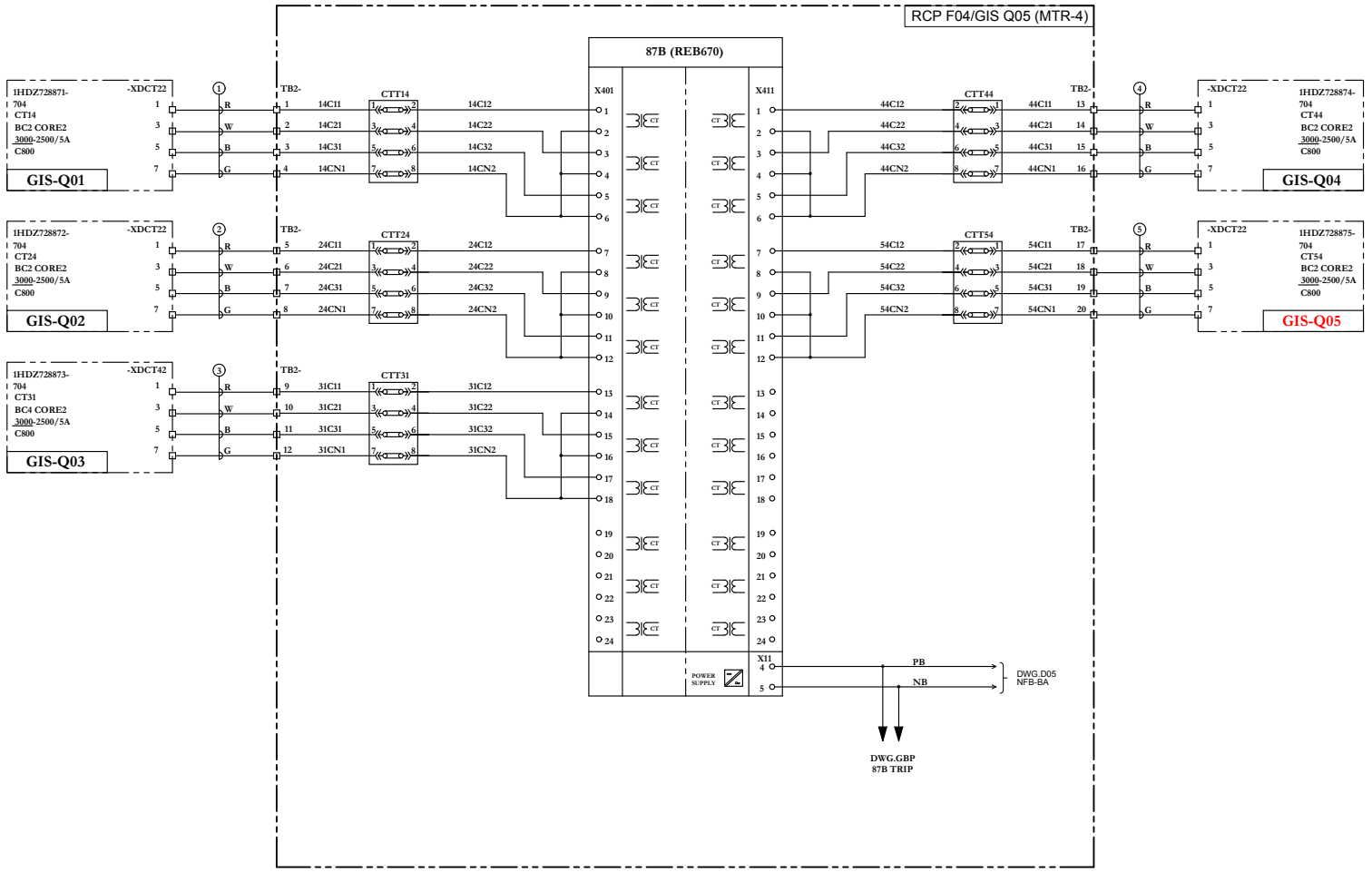
For Approval	2021-09-08	C	Project	VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title GIS Q05 CT & RCP F04 PROTECTION RELAY CIRCUIT DIAGRAM	Doc. des.	DWG. NO. VENA-D04
For Approval	2021-09-06	B			Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale / Lang.
For Approval	2021-08-17	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.	Sheet 1
Issued for	Date	Rev.	Derived fm	Replaces					Cont. ～



GIS Q05 LCC	RCP F04	5.0mm² X4/C	D05Q05RCP-3	3	SHIELD
GIS Q05 LCC	RCP F04	5.0mm² X4/C	D05Q05RCP-2	2	SHIELD
GIS Q05 LCC	RCP F04	5.5mm² X4/C	D05Q05RCP-1	1	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

MTR-4 NCT	RCP F04	5.5mm² X4/C	D05NCTRCP-1	5	SHIELD
MTR-4 BCT	RCP F04	5.5mm² X4/C	D05BCTRCP-1	4	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

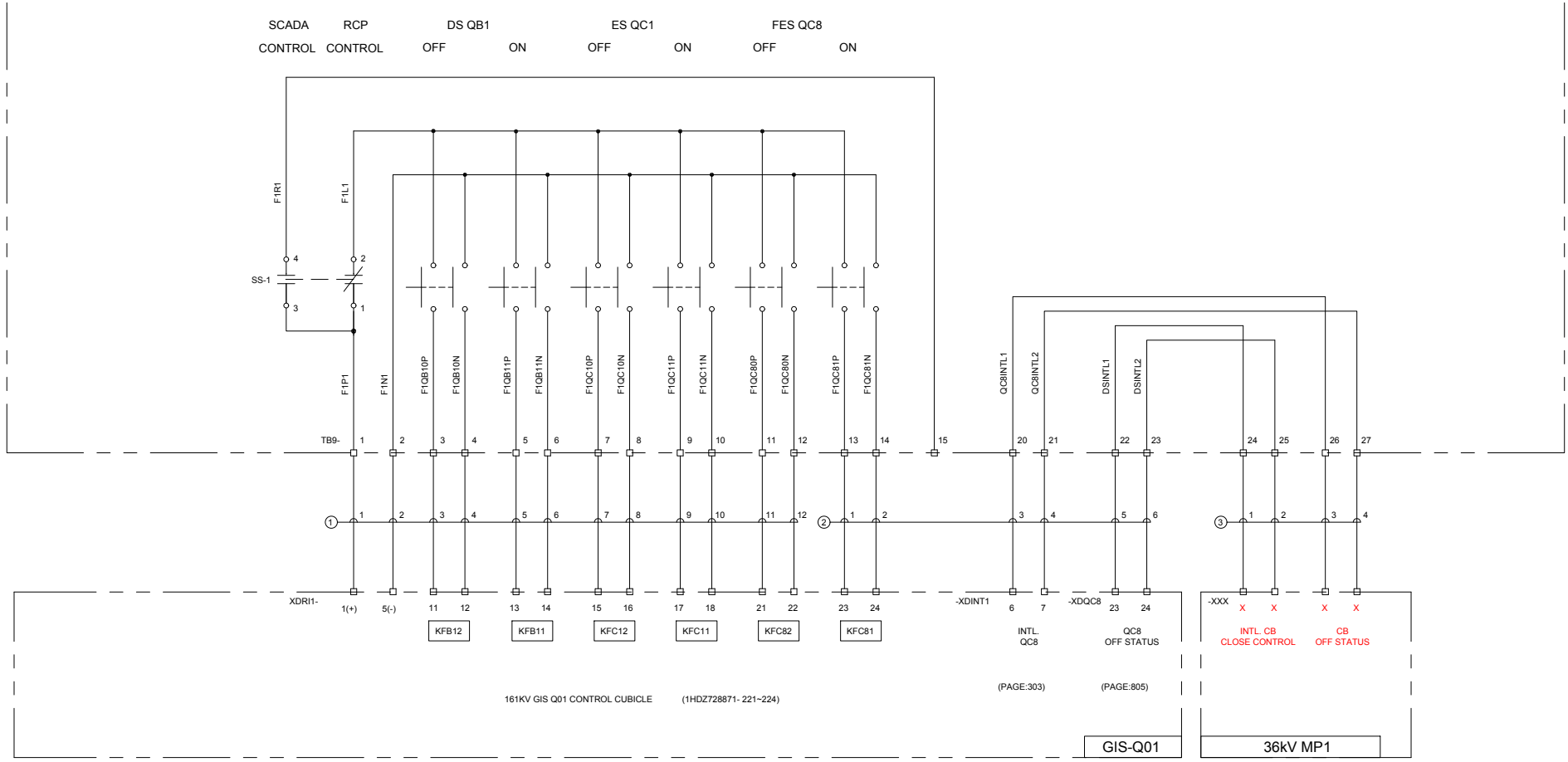
For Approval	2021-09-08	C	Project	VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title GIS Q05 CT & RCP F04 PROTECTION RELAY CIRCUIT DIAGRAM	Doc. des.	DWG. NO. VENA-D05
For Approval	2021-09-06	B			Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale / Lang.
For Approval	2021-08-17	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.	Sheet 1
Issued for	Date	Rev.	Derived fm	Replaces					Cont. ～



FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK
GIS Q05 LCC	RCP	5.5mm² X4/C	DBPQ05RCP-1	5	SHIELD
GIS Q04 LCC	RCP	5.5mm² X4/C	DBPQ04RCP-1	4	SHIELD
GIS Q03 LCC	RCP	5.5mm² X4/C	DBPQ03RCP-1	3	SHIELD
GIS Q02 LCC	RCP	5.0mm² X4/C	DBPQ02RCP-1	2	SHIELD
GIS Q01 LCC	RCP	5.5mm² X4/C	DBPQ01RCP-1	1	SHIELD

For Approval	2021-09-08	C	Project VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title 87B PROTECTION RELAY CIRCUIT DIAGRAM	Doc. des. / DWG. NO. VENA-DBP
For Approval	2021-09-06	B		Checked by Jeff Lu	Date 2021-06-18		Resp. dept. / Scale / Lang.
For Approval	2021-08-17	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. / Sheet 1 / Cont. ～
Issued for	Date	Rev.	Derived fm / Replaces				

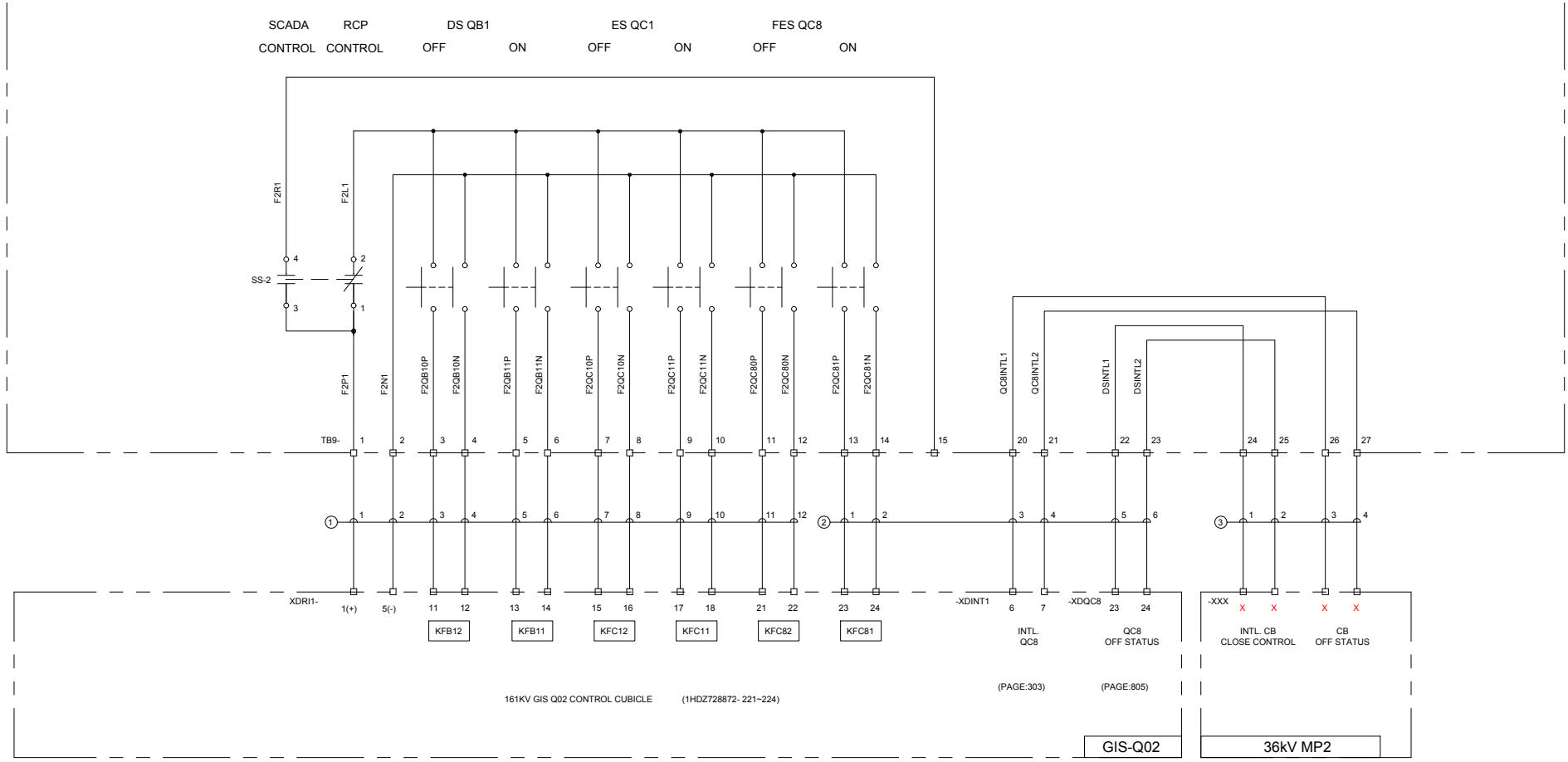
RCP F01/GIS Q01 (MTR-1)



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

For Approval	2021-09-08	C	Project	VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title GIS Q01 DS & ES ON-OFF CONTROL DIAGRAM FOR RCP F01	Doc. des.	DWG. NO. VENA-E01	
For Approval	2021-09-06	B			Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale	Lang.
For Approval	2021-08-17	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.		Sheet 1
Issued for	Date	Rev.	Derived fm	Replaces						Cont. ～

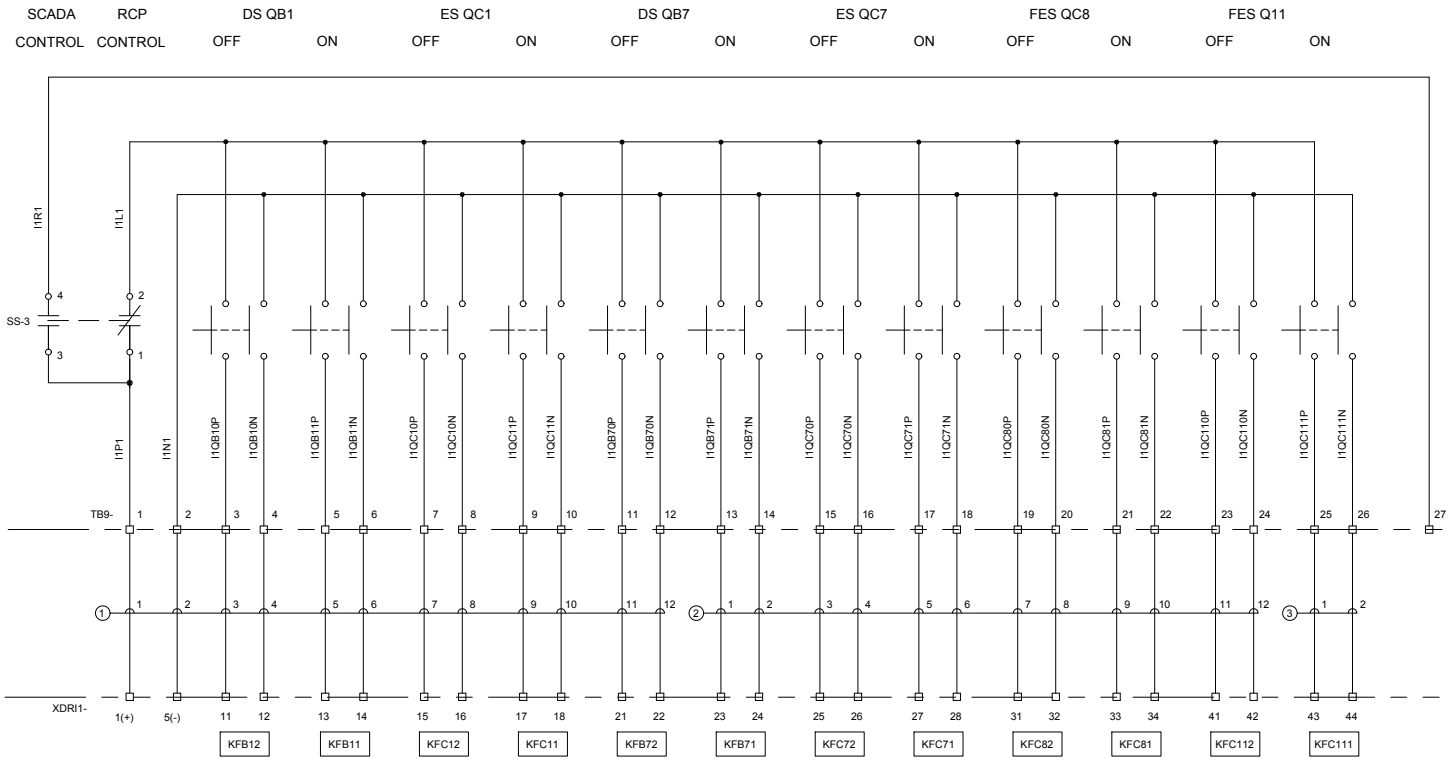
RCP F02/GIS Q02 (MTR-2)



36kV MP2	RCP	2 2.0mm X12/C	E02MVPRCP-1	③	SHIELD
GIS Q02 LCC	RCP	2 2.0mm X12/C	E02Q02RCP-2	②	SHIELD
GIS Q02 LCC	RCP	2 2.0mm X12/C	E02Q02RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

For Approval	2021-09-08	C	Project	VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title GIS Q02 DS & ES ON-OFF CONTROL DIAGRAM FOR RCP F02	Doc. des.	DWG. NO. VENA-E02	
For Approval	2021-09-06	B			Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale	Lang.
For Approval	2021-08-17	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.		Sheet 1
Issued for	Date	Rev.	Derived fm	Replaces						Cont. ～

RCP IN01/GIS Q03 (TPC)

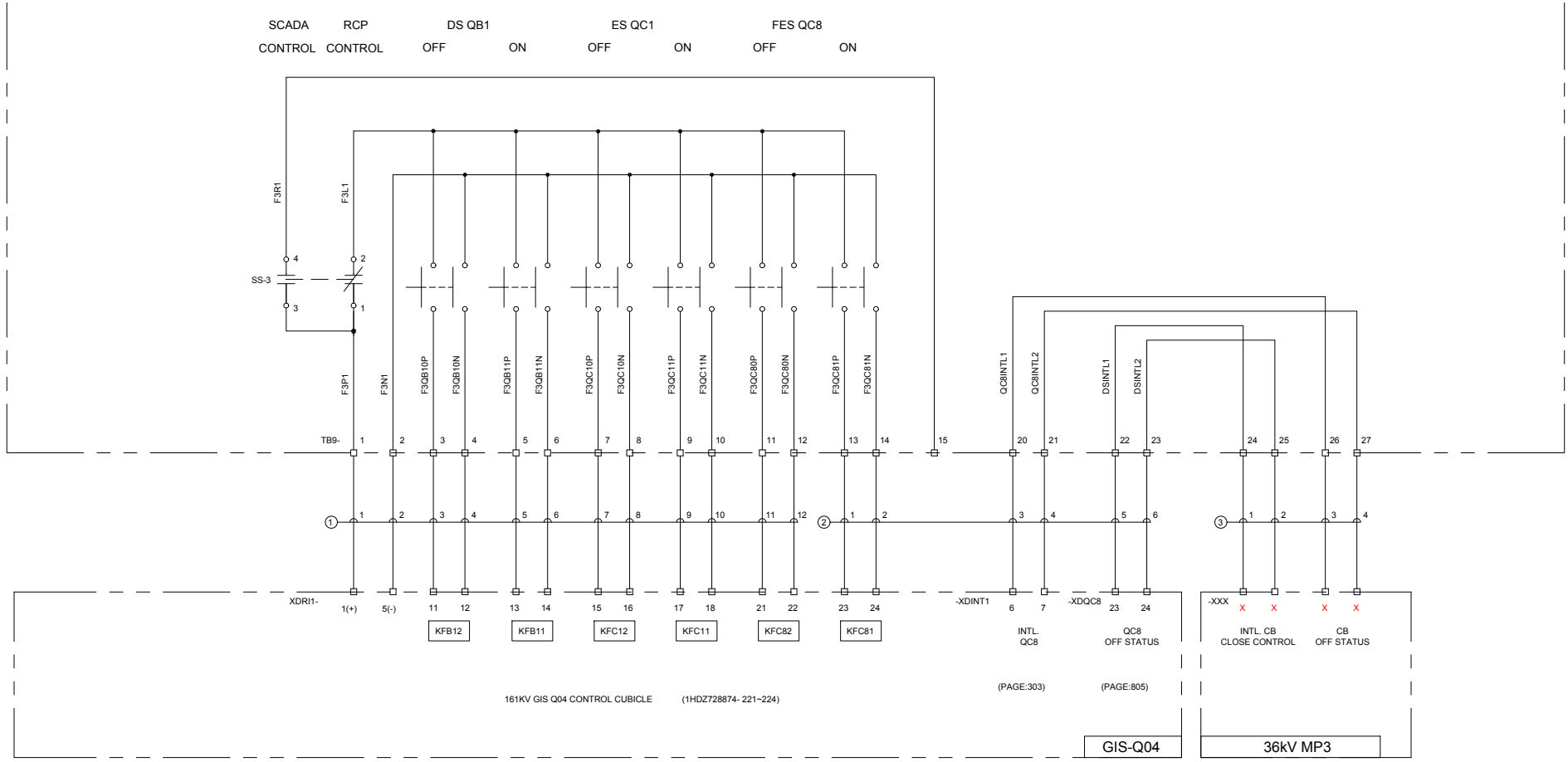


GIS-Q03

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

For Approval	2021-09-08	C	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	
For Approval	2021-09-06	B			Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale	Lang.
For Approval	2021-08-17	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.		Sheet 1
Issued for	Date	Rev.	Derived fm	Replaces						Cont. ～

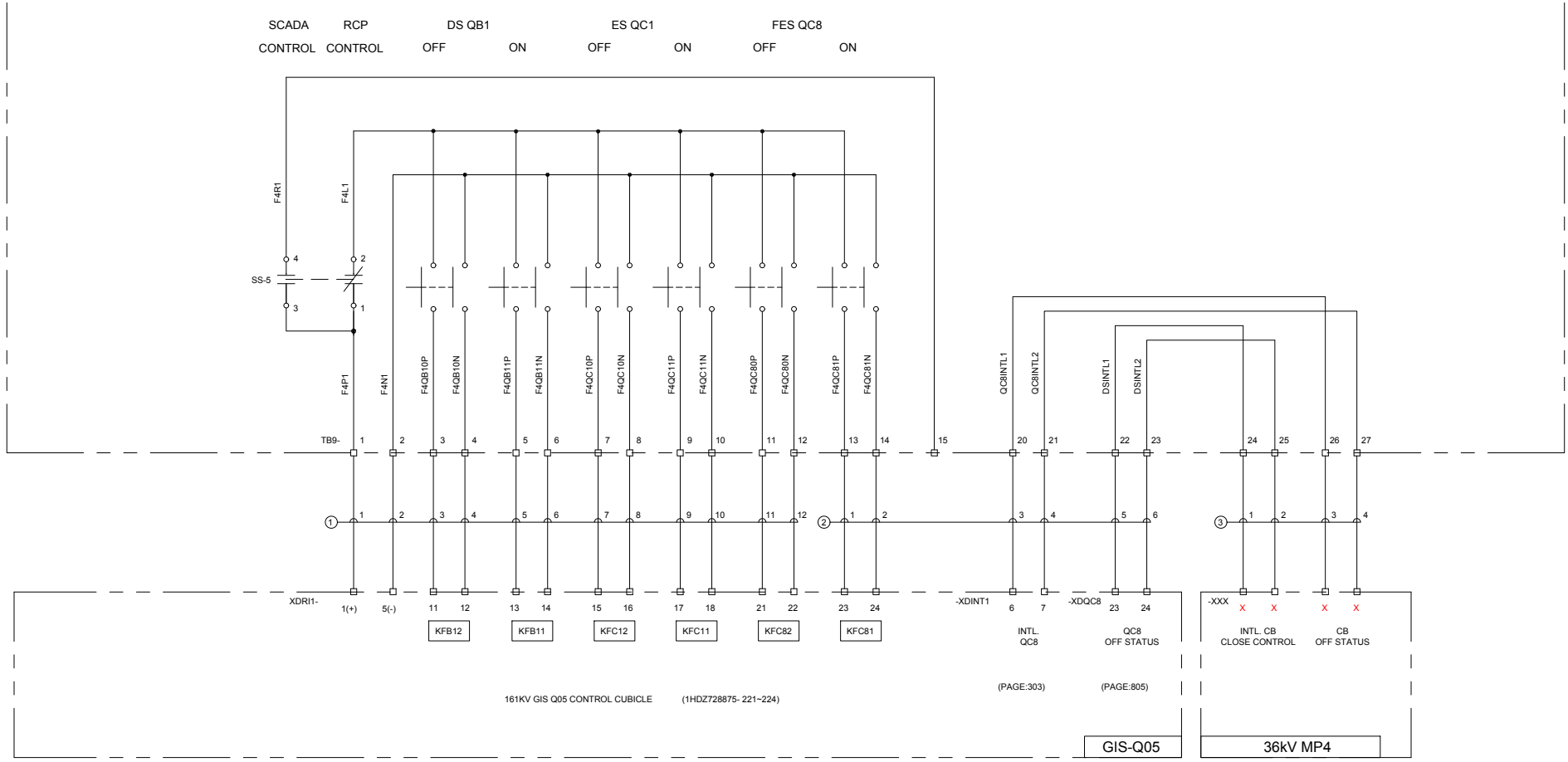
RCP F03/GIS Q04 (MTR-3)



36kV MP3	RCP	2 2.0mm X12/C	E04MVPRCP-1	③	SHIELD
GIS Q04 LCC	RCP	2 2.0mm X12/C	E04Q04RCP-2	②	SHIELD
GIS Q04 LCC	RCP	2 2.0mm X12/C	E04Q04RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

For Approval	2021-09-08	C	Project	VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title GIS Q04 DS & ES ON-OFF CONTROL DIAGRAM FOR RCP F03	Doc. des.	DWG. NO. VENA-E04	
For Approval	2021-09-06	B			Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale	Lang.
For Approval	2021-08-17	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.		Sheet 1
Issued for	Date	Rev.	Derived fm	Replaces						Cont. ～

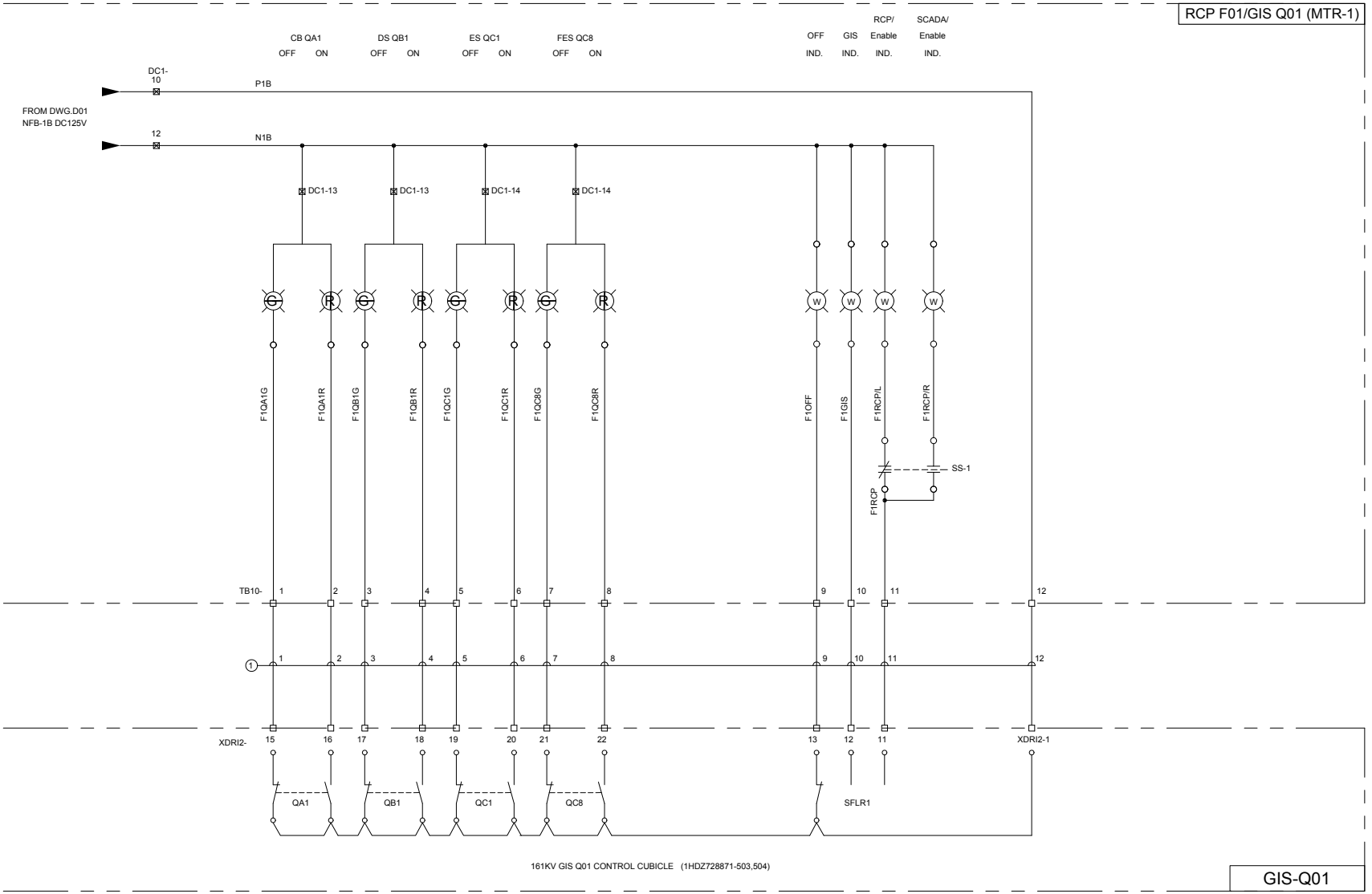
RCP F04/GIS Q05 (MTR-4)



FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK
36kV MP4	RCP	2.0mm² X12/C	E05MVPRCP-1	③	SHIELD
GIS Q05 LCC	RCP	2.0mm² X12/C	E05Q05RCP-2	②	SHIELD
GIS Q05 LCC	RCP	2.0mm² X12/C	E05Q05RCP-1	①	SHIELD

For Approval	2021-09-08	C	Project	VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title GIS Q05 DS & ES ON-OFF CONTROL DIAGRAM FOR RCP F04	Doc. des.	DWG. NO. VENA-E05	
For Approval	2021-09-06	B			Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale	Lang.
For Approval	2021-08-17	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.		Sheet 1
Issued for	Date	Rev.	Derived fm	Replaces						Cont. ～

RCP F01/GIS Q01 (MTR-1)

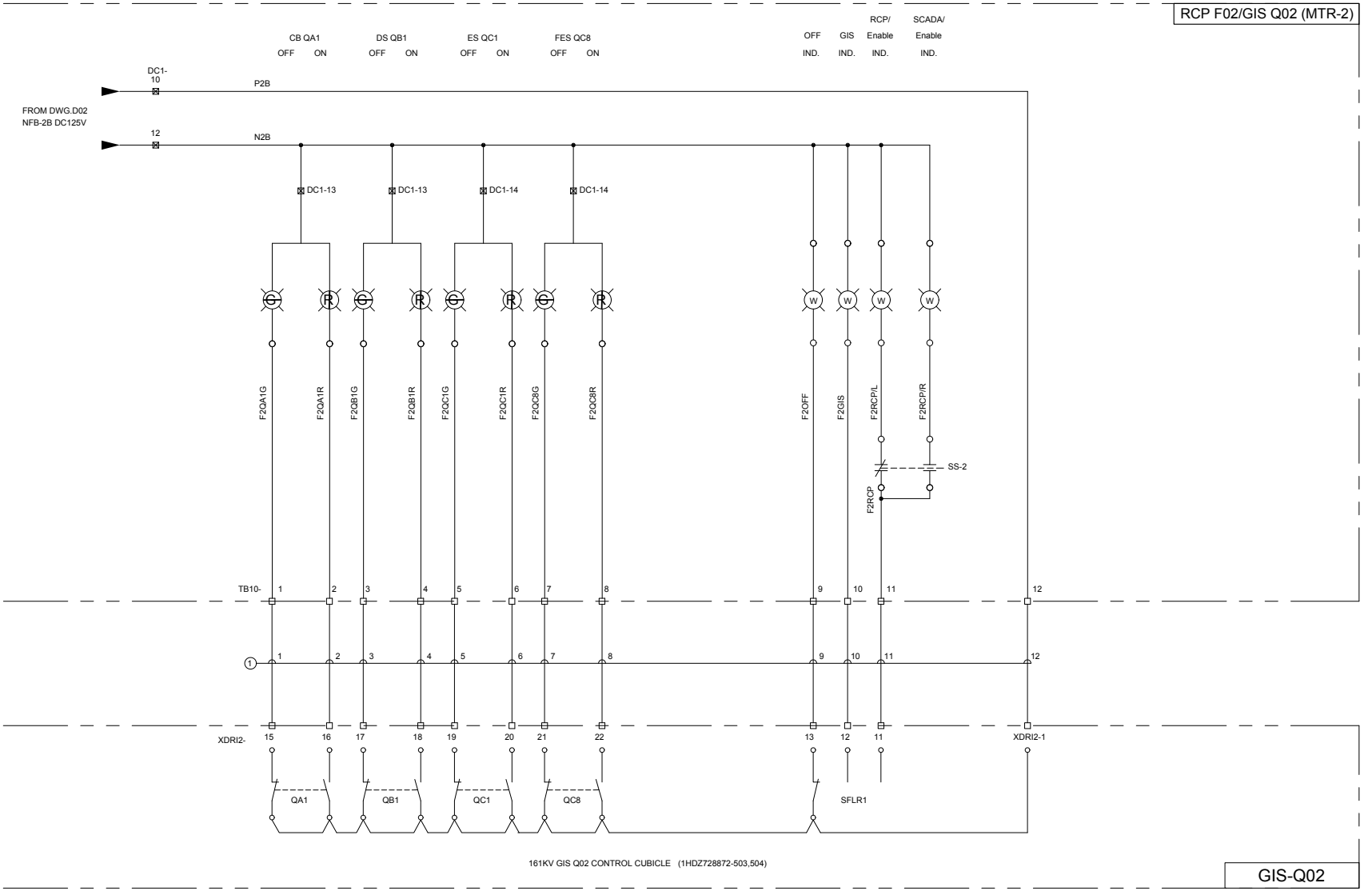


GIS-Q01

GIS Q01 LCC	RCP	2.0mm² X16/C	F01Q01RCP-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 Q01 CB & DS & ES ON-OFF STATUS INDICATION FOR RCP F01	Doc. des.	DWG. NO. VENA- F01	
For Approval	2021-09-08	C			Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale	Lang.
For Approval	2021-09-06	B			Prepared by Chuan Hua	Date 2021-06-18	台灣日立電網股份有限公司	Doc. No.		Sheet 1
For Approval	2021-08-17	A	Customer 韋能台西							Cont. ～
Issued for	Date	Rev.	Derived fm	Replaces						

RCP F02/GIS Q02 (MTR-2)

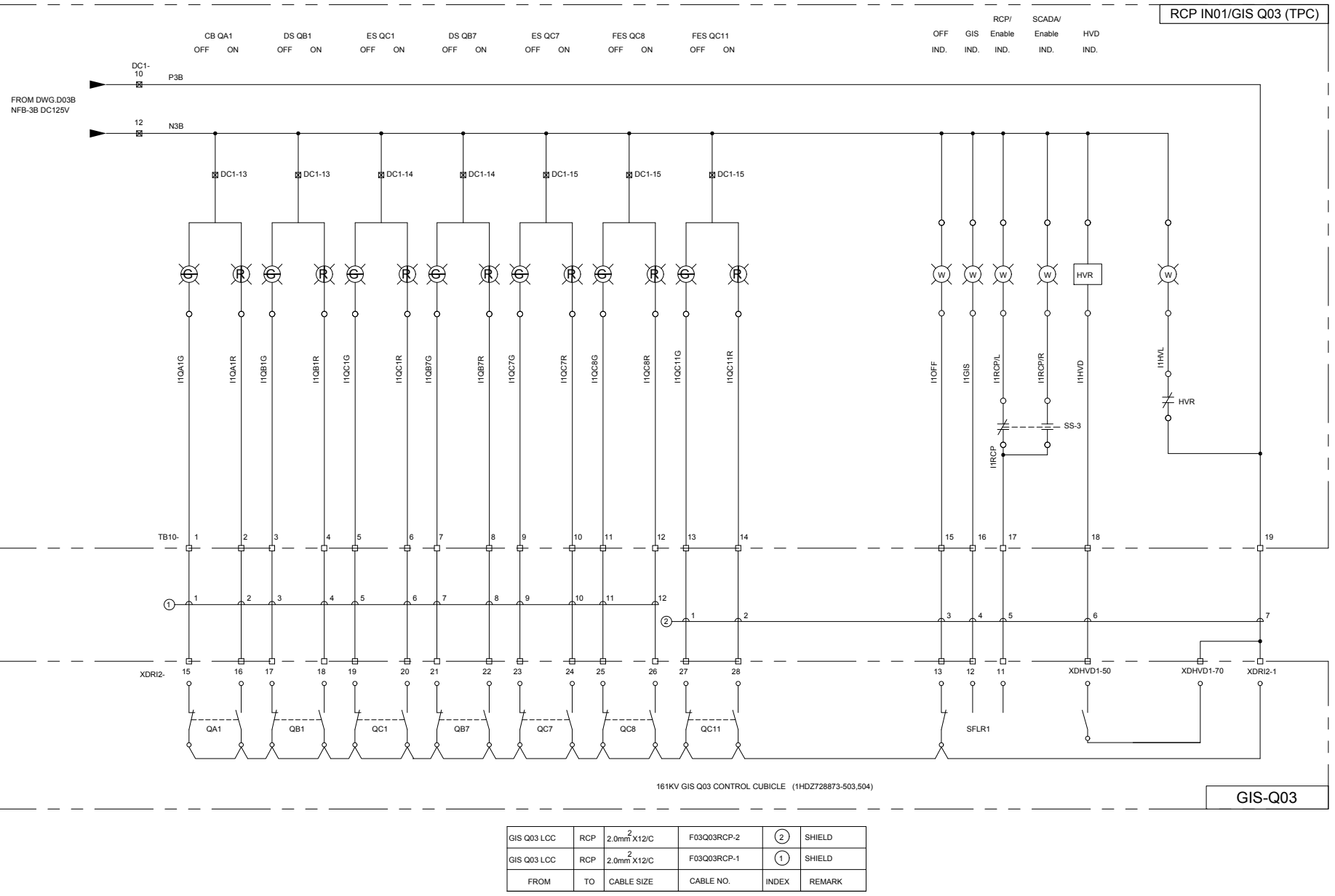


GIS-Q02

GIS Q02 LCC	RCP	2.0mm² X16/C	F02Q02RCP-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 Q02 CB & DS & ES ON-OFF STATUS INDICATION FOR RCP F02	Doc. des.	DWG. NO. VENA- F02	
For Approval	2021-09-08	C			Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale	Lang.
For Approval	2021-09-06	B			Prepared by Chuan Hua	Date 2021-06-18	台灣日立電網股份有限公司	Doc. No.		Sheet 1
For Approval	2021-08-17	A	Customer 韋能台西							Cont. ～
Issued for	Date	Rev.	Derived fm	Replaces						

RCP IN01/GIS Q03 (TPC)



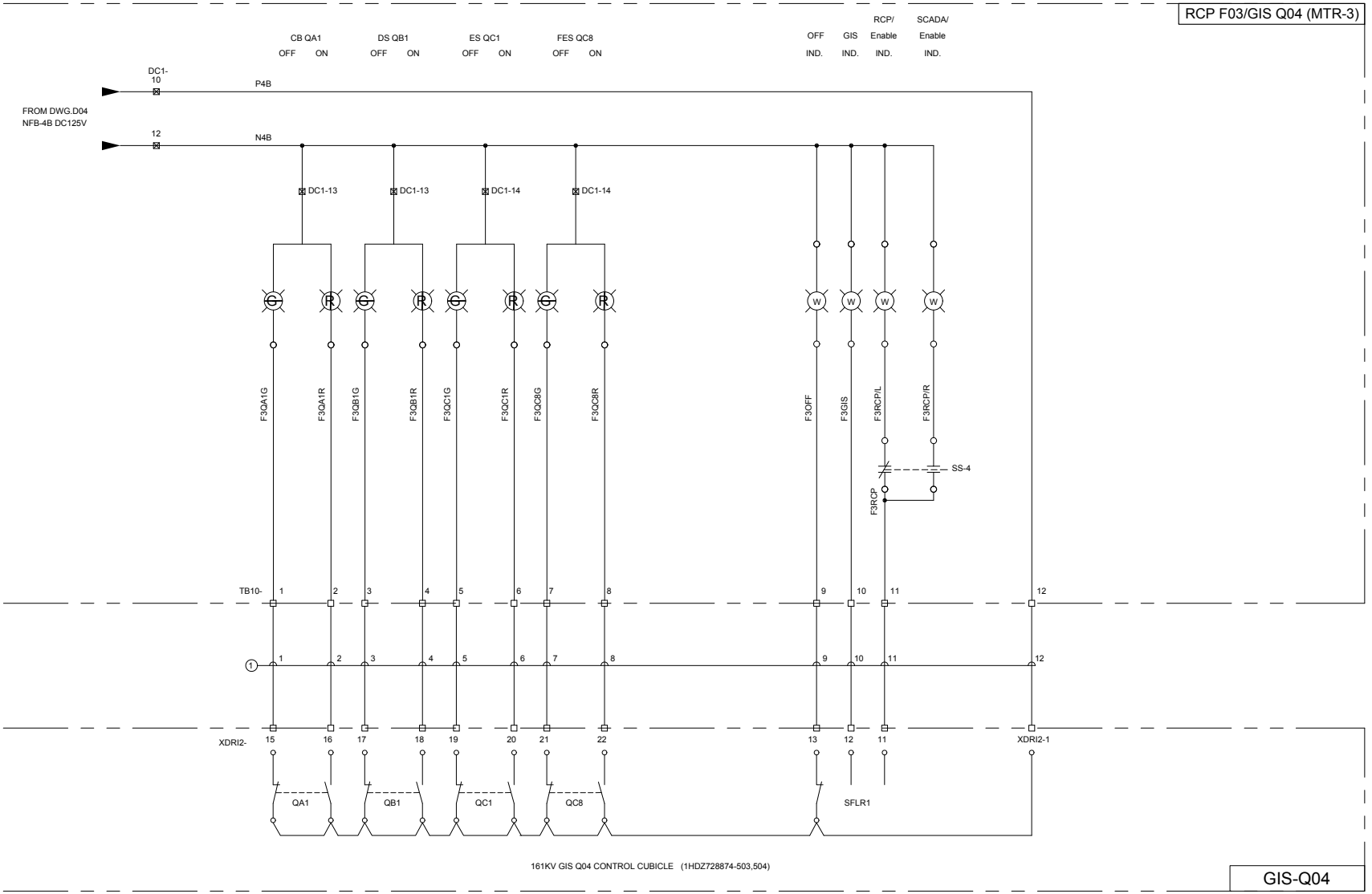
161KV GIS Q03 CONTROL CUBICLE (1HDZ728873-503,504)

GIS-Q03

GIS Q03 LCC	RCP	2.0mm² X12/C	F03Q03RCP-2	②	SHIELD
GIS Q03 LCC	RCP	2.0mm² X12/C	F03Q03RCP-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 CB & DS & ES ON-OFF STATUS INDICATION FOR RCP IN01	Doc. des.	DWG. NO. VENA-F03
For Approval	2021-09-08	C			Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale / Lang.
For Approval	2021-09-06	B			Prepared by Chuan Hua	Date 2021-06-18	台灣日立電網股份有限公司	Doc. No.	Sheet 1
For Approval	2021-08-17	A	Customer 韋能台西						Cont. ～
Issued for	Date	Rev.	Derived fm	Replaces					

RCP F03/GIS Q04 (MTR-3)

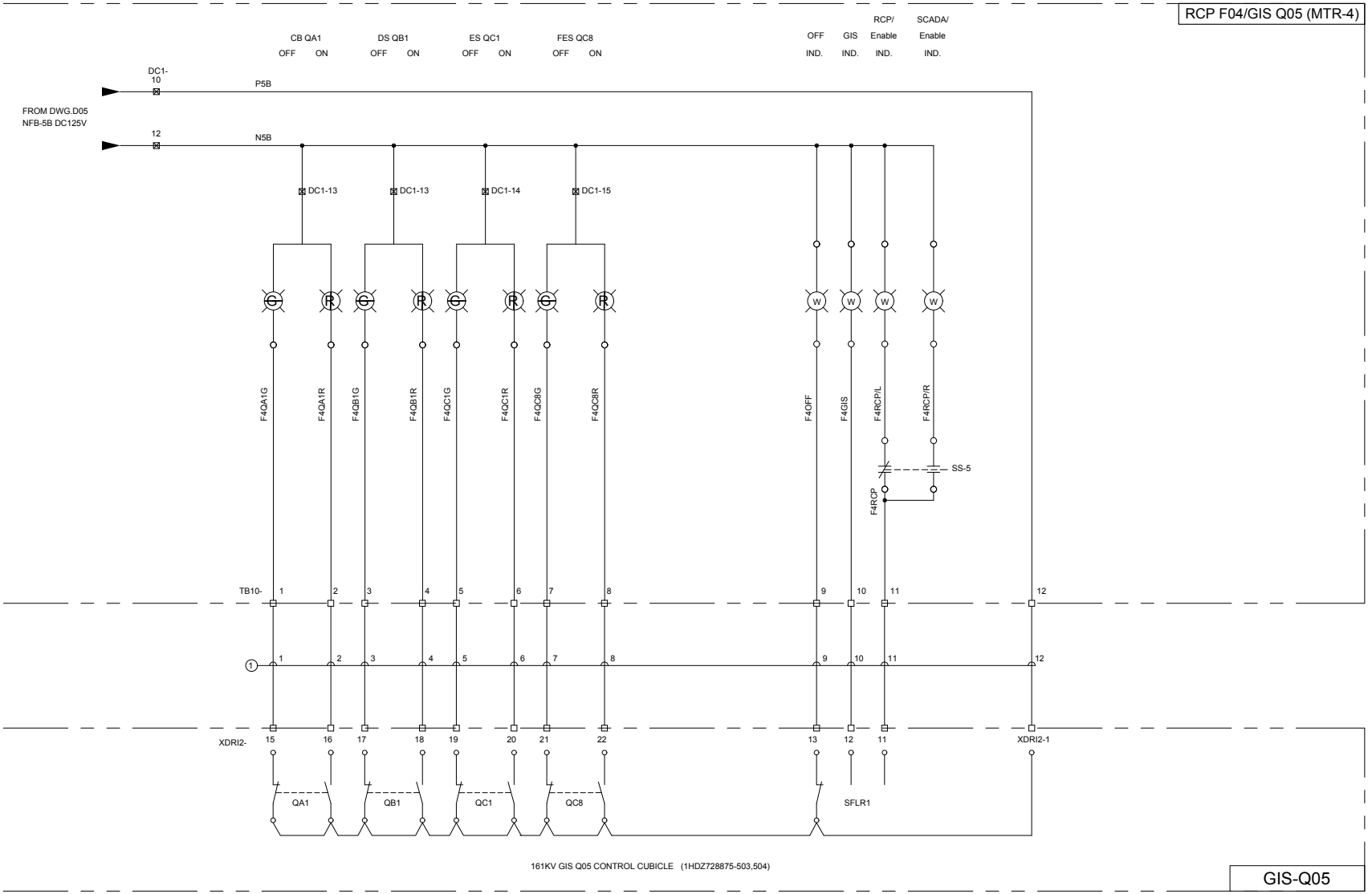


GIS-Q04

GIS Q04 LCC	RCP	2.0mm² X16/C	F04Q04RCP-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 Q04 CB & DS & ES ON-OFF STATUS INDICATION FOR RCP F03	Doc. des.	DWG. NO. VENA- F04	
For Approval	2021-09-08	C			Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale	Lang.
For Approval	2021-09-06	B			Prepared by Chuan Hua	Date 2021-06-18	台灣日立電網股份有限公司	Doc. No.		Sheet 1
For Approval	2021-08-17	A	Customer 韋能台西							Cont. ～
Issued for	Date	Rev.	Derived fm	Replaces						

RCP F04/GIS Q05 (MTR-4)



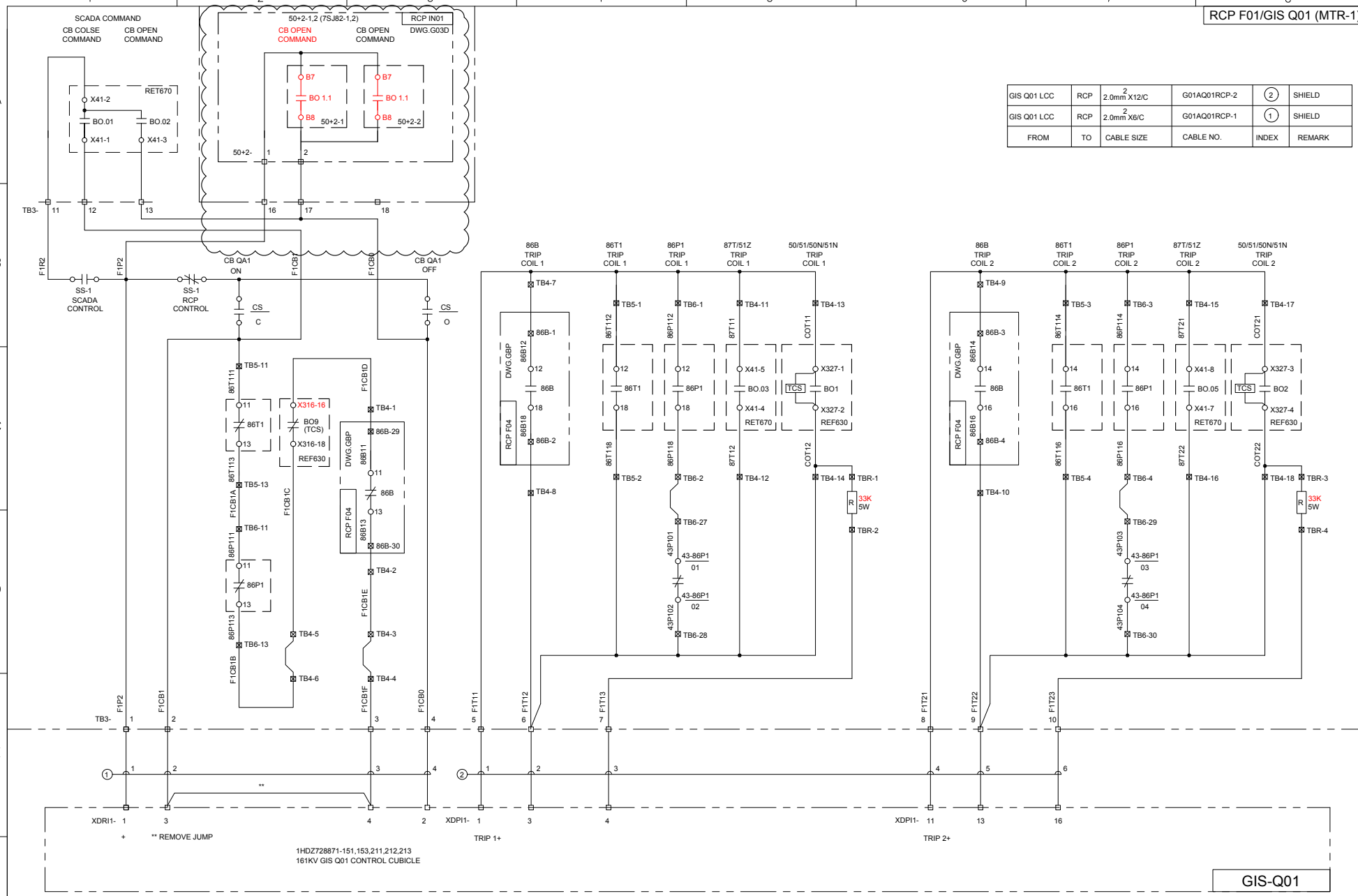
GIS-Q05

GIS Q05 LCC	RCP	2.0mm² X16/C	F05Q05RCP-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 Q05 CB & DS & ES ON-OFF STATUS INDICATION FOR RCP F04	Doc. des.	DWG. NO. VENA- F05	
For Approval	2021-09-08	C			Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale	Lang.
For Approval	2021-09-06	B			Prepared by Chuan Hua	Date 2021-06-18	台灣日立電網股份有限公司	Doc. No.		Sheet 1
For Approval	2021-08-17	A	Customer 韋能台西							Cont. ～
Issued for	Date	Rev.	Derived fm	Replaces						

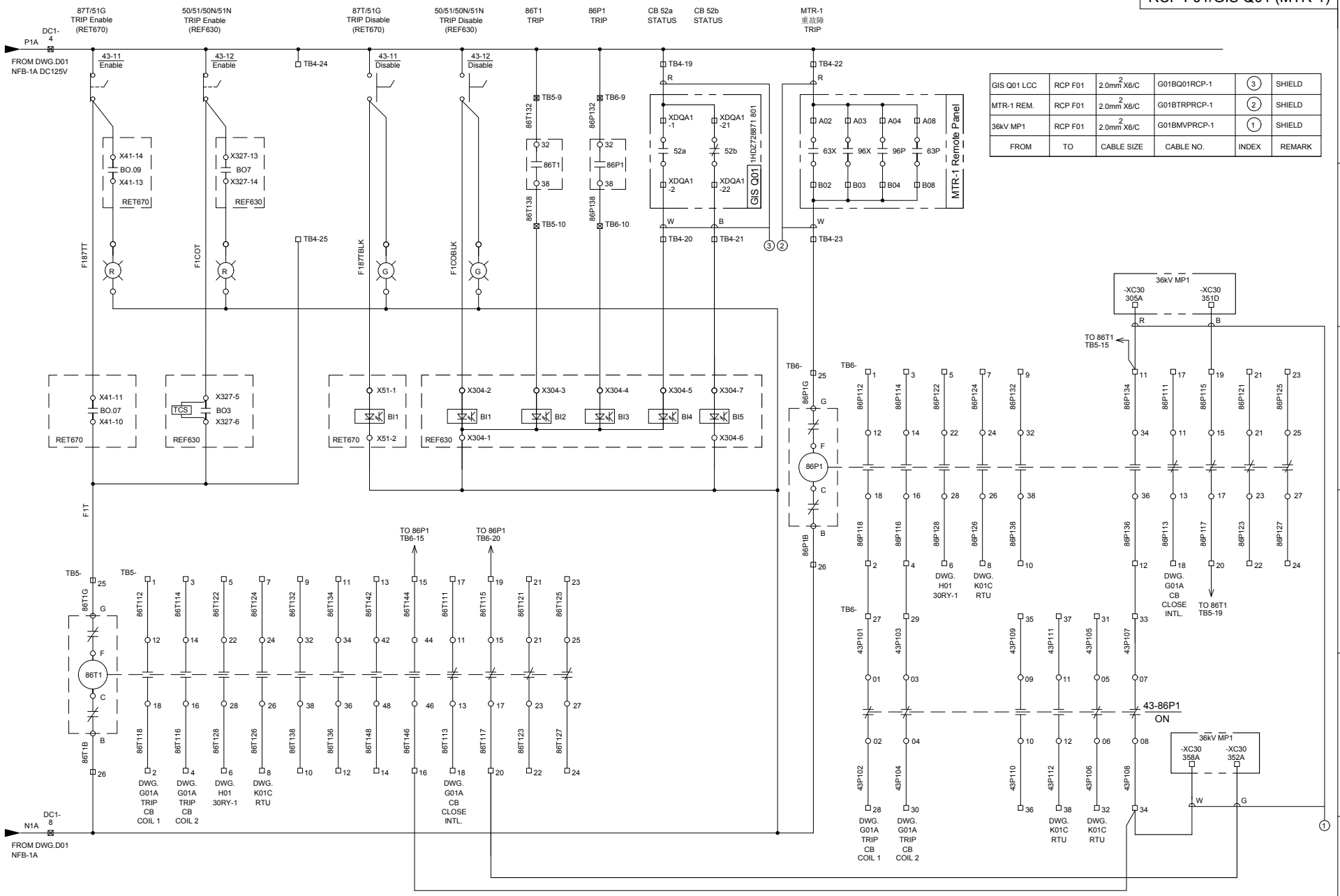
RCP F01/GIS Q01 (MTR-1)

FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK
GIS Q01 LCC	RCP	2 2.0mm² X12/C	G01AQ01RCP-2	(2)	SHIELD
GIS Q01 LCC	RCP	2 2.0mm² X6/C	G01AQ01RCP-1	(1)	SHIELD



			Project	Approved by	Date	Title	Doc. des.	DWG. NO.
For Approval	2021-09-08	C	VENA ENERGY 161KV GIS S/S PROJECT	Jeff Lu	2021-06-18	GIS Q01 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (1)		VENA- G01A
For Approval	2021-09-06	B		Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale / Lang.
For Approval	2021-08-17	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.	Sheet 1
Issued for	Date	Rev.	Derived fm / Replaces					Cont. ～

RCP F01/GIS Q01 (MTR-1)

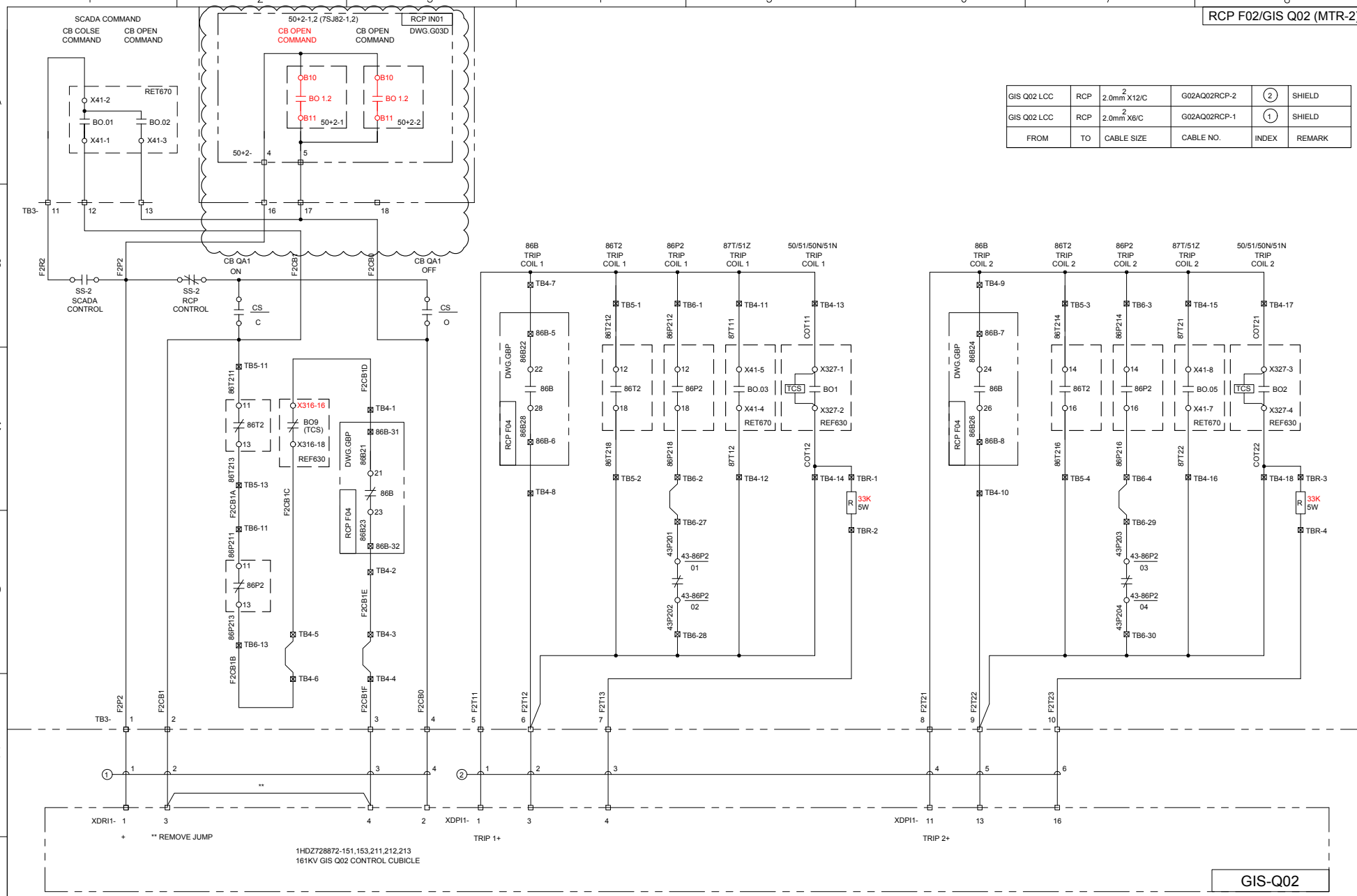


GIS Q01 LCC	RCP F01	2.0mm² X6/C	G01BQ01RCP-1	3	SHIELD
MTR-1 REM.	RCP F01	2.0mm² X6/C	G01BTRPRCP-1	2	SHIELD
36kV MP1	RCP F01	2.0mm² X6/C	G01BMVPRCP-1	1	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

For Approval	2021-09-08	C	Project	VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title GIS Q01 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (2)	Doc. des.	DWG. NO. VENA- G01B
For Approval	2021-09-06	B			Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale / Lang.
For Approval	2021-08-17	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.	Sheet 1
Issued for	Date	Rev.	Derived fm	Replaces					Cont. ～

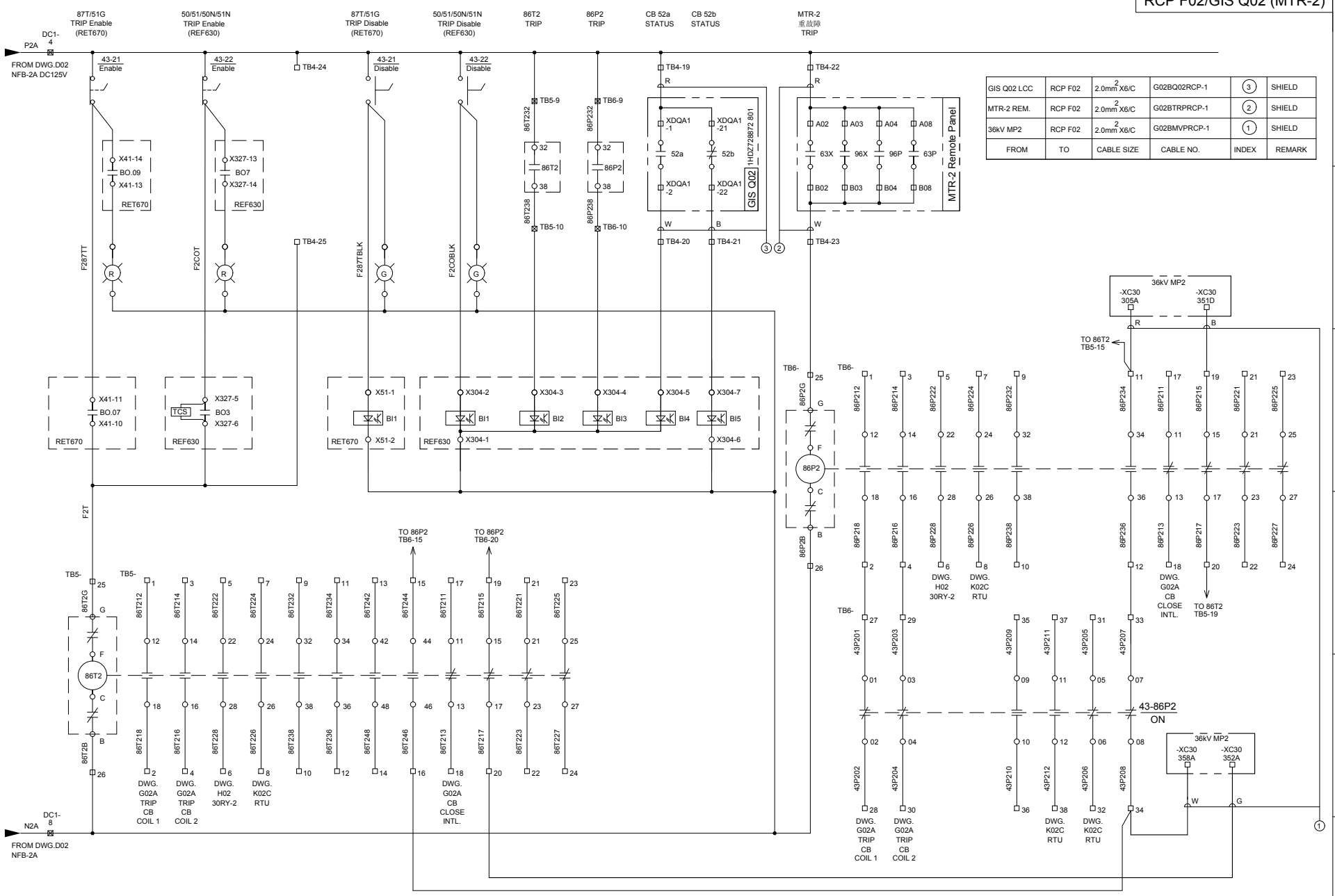
RCP F02/GIS Q02 (MTR-2)

FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK
GIS Q02 LCC	RCP	2 2.0mm² X12/C	G02AQ02RCP-2	(2)	SHIELD
GIS Q02 LCC	RCP	2 2.0mm² X6/C	G02AQ02RCP-1	(1)	SHIELD



			Project		Approved by	Date	Title	Doc. des.	DWG. NO.
For Approval	2021-09-08	C	VENA ENERGY		Jeff Lu	2021-06-18	GIS Q02 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (1)		VENA- G02A
For Approval	2021-09-06	B	161KV GIS S/S PROJECT		Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale / Lang.
For Approval	2021-08-17	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.	Sheet 1
Issued for	Date	Rev.	Derived fm	Replaces					Cont. ～

RCP F02/GIS Q02 (MTR-2)

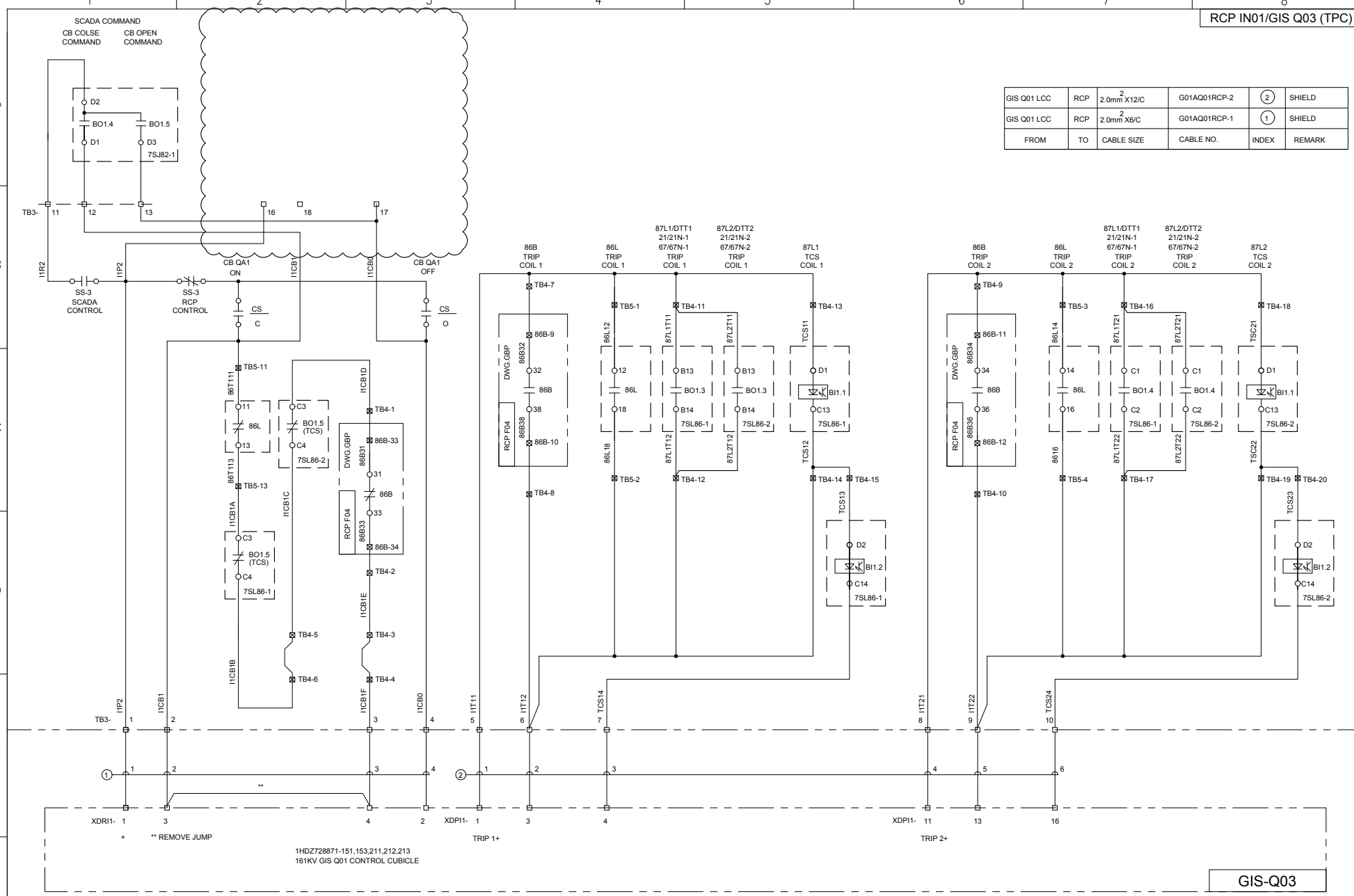


GIS Q02 LCC	RCP F02	2.0mm² X6/C	G02BQ02RCP-1	3	SHIELD
MTR-2 REM.	RCP F02	2.0mm² X6/C	G02BTRPRCP-1	2	SHIELD
36kV MP2	RCP F02	2.0mm² X6/C	G02BMVPRCP-1	1	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

			Project	VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title GIS Q02 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (2)	Doc. des.	DWG. NO. VENA- G02B
For Approval	2021-09-08	C			Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale / Lang.
For Approval	2021-09-06	B			Prepared by Chuan Hua	Date 2021-06-18	台灣日立電網股份有限公司	Doc. No.	Sheet 1
For Approval	2021-08-17	A	Customer 韋能台西						Cont. ～
Issued for	Date	Rev.	Derived fm	Replaces					

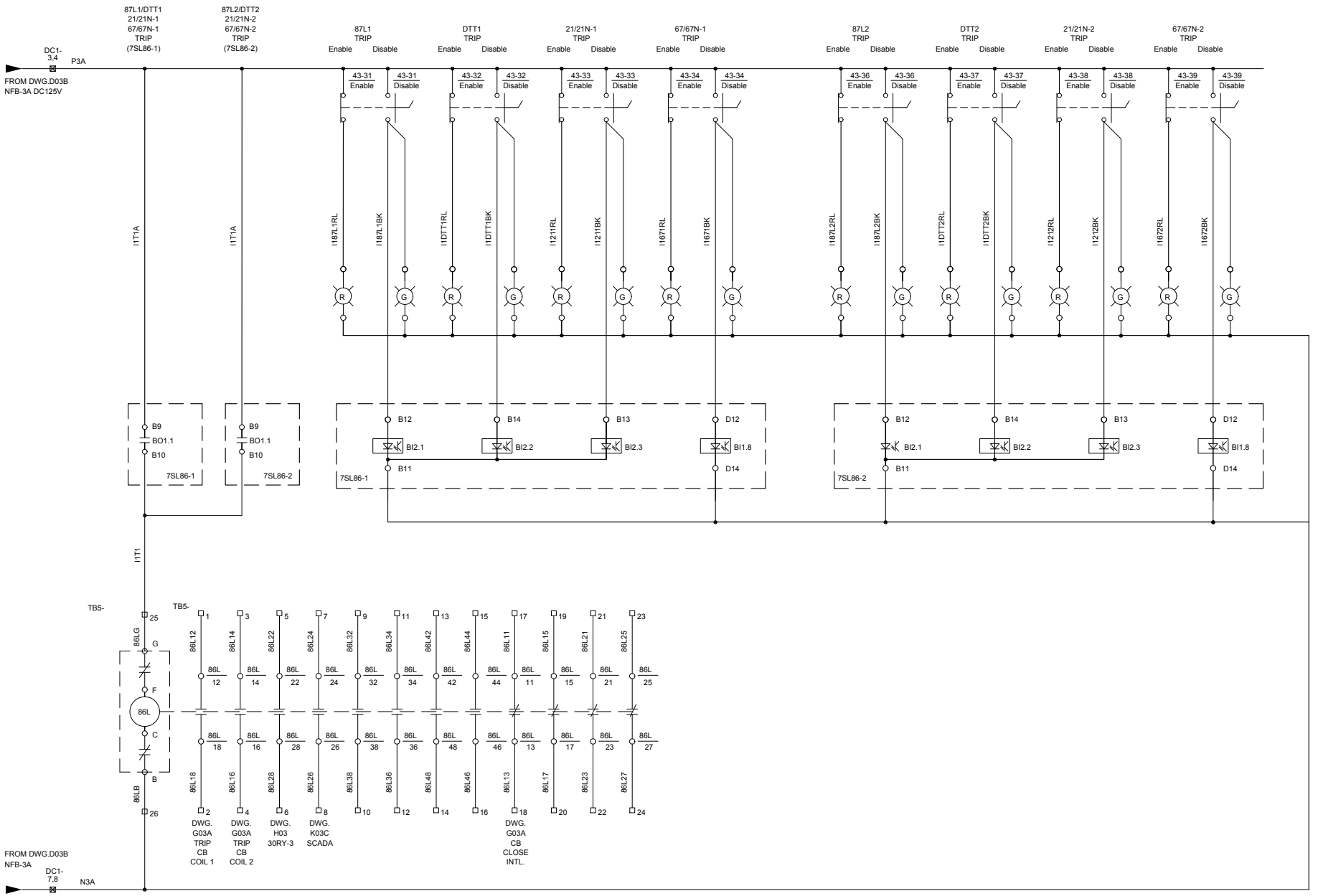
RCP IN01/GIS Q03 (TPC)

FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK
GIS Q01 LCC	RCP	$2.0mm^2$ X12/C	G01AQ01RCP-2	(2)	SHIELD
GIS Q01 LCC	RCP	$2.0mm^2$ X6/C	G01AQ01RCP-1	(1)	SHIELD



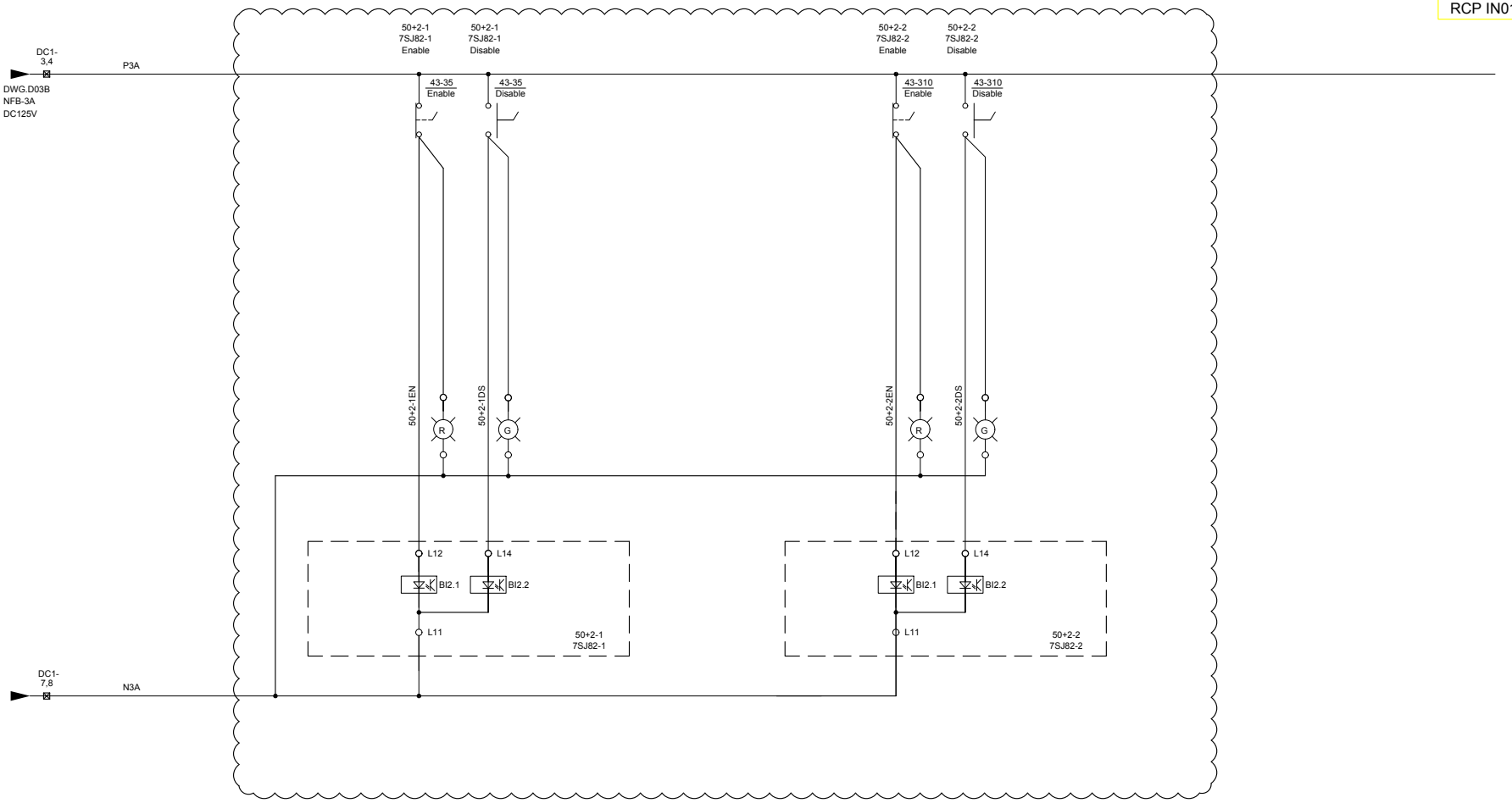
			Project		Approved by	Date	Title	Doc. des.	DWG. NO.
For Approval	2021-09-08	C	VENA ENERGY		Jeff Lu	2021-06-18	GIS Q03 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (1)		VENA- G03A
For Approval	2021-09-06	B	161KV GIS S/S PROJECT		Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale / Lang.
For Approval	2021-08-17	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.	Sheet 1
Issued for	Date	Rev.	Derived fm	Replaces					Cont. ～

RCP IN01/GIS Q03 (TPC)



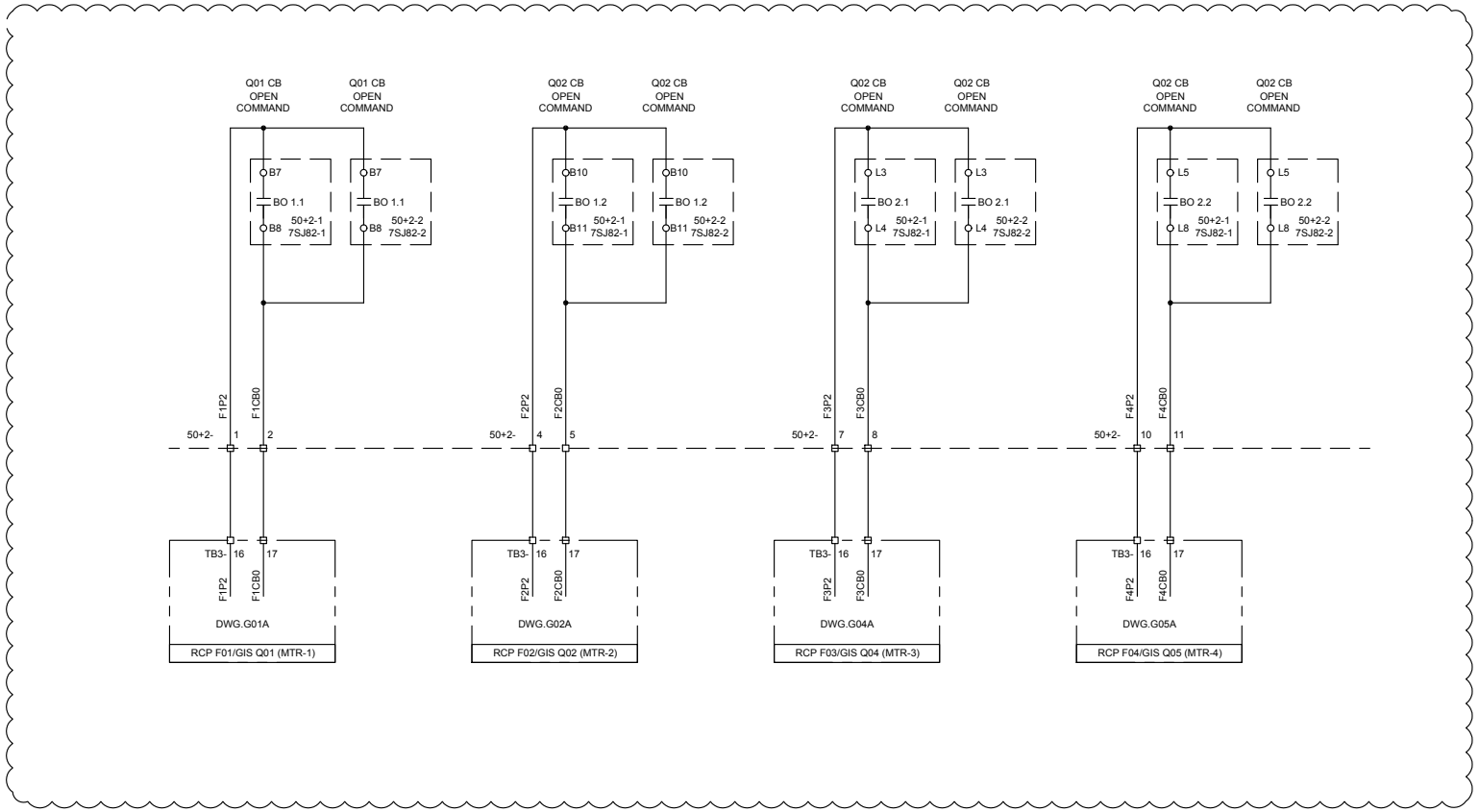
			Project VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title GIS Q03 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (2)	Doc. des.	DWG. NO. VENA-G03B
For Approval	2021-09-08	C		Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale / Lang.
For Approval	2021-09-06	B		Prepared by Chuan Hua	Date 2021-06-18	台灣日立電網股份有限公司	Doc. No.	Sheet 1
For Approval	2021-08-17	A	Customer 韋能台西					Cont. ～
Issued for	Date	Rev.	Derived fm / Replaces					

RCP IN01/GIS Q03 (TPC)



			Project VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title 50+2-1,2 CB ON-OFF COMMAND CONTROL CIRCUIT DIAGRAM (1)	Doc. des.	DWG. NO. VENA-G03C
For Approval	2021-09-08	C		Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale / Lang.
For Approval	2021-09-06	B		Prepared by Chuan Hua	Date 2021-06-18	台灣日立電網股份有限公司	Doc. No.	Sheet 1
For Approval	2021-08-17	A	Customer 韋能台西					Cont. ～
Issued for	Date	Rev.	Derived fm / Replaces					

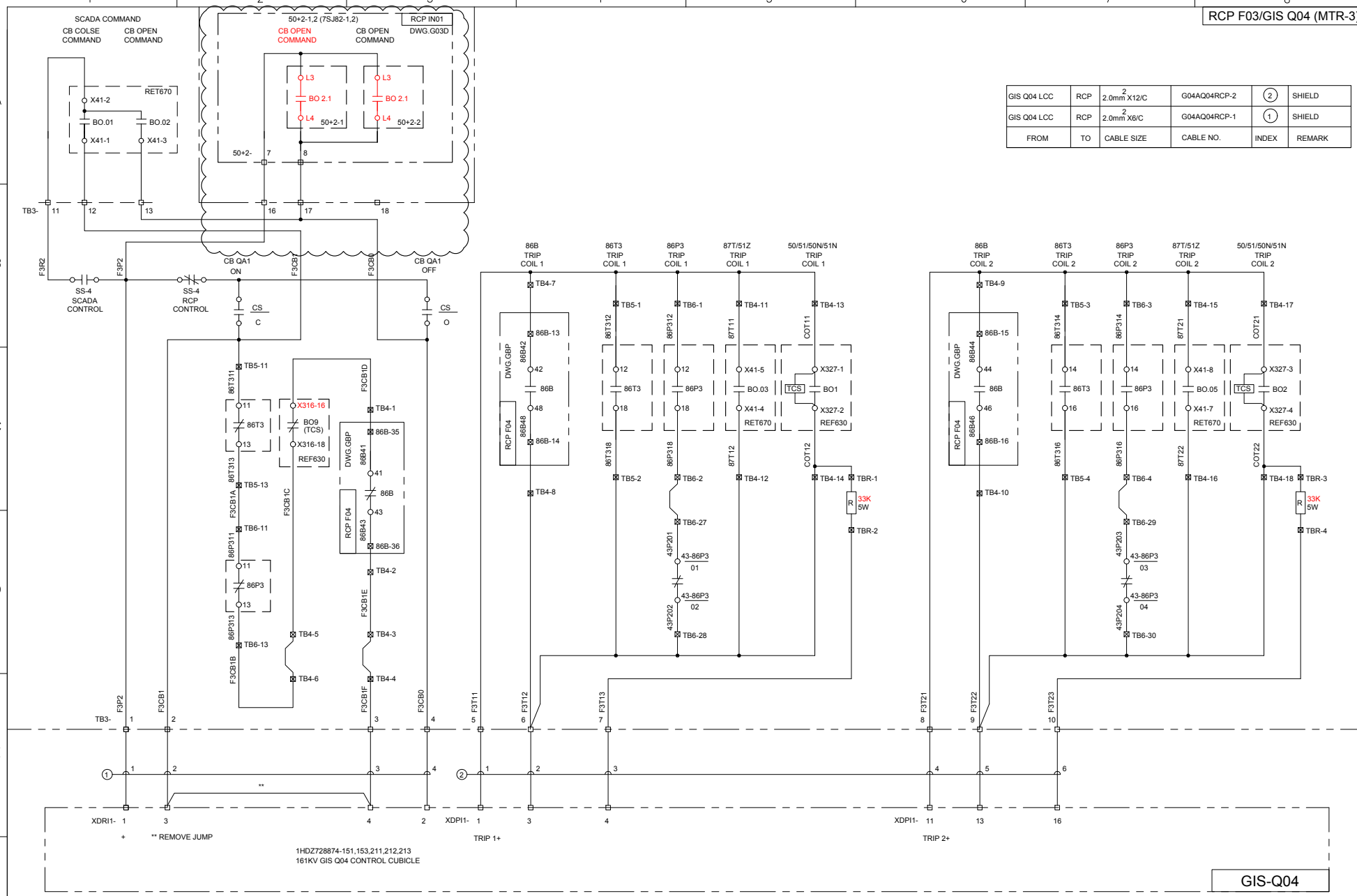
RCP IN01/GIS Q03 (TPC)



			Project	VENA ENERGY	Approved by Jeff Lu	Date 2021-06-18	Title	Doc. des.	DWG. NO. VENA-G03D
For Approval	2021-09-08	C		161KV GIS S/S PROJECT	Checked by Jeff Lu	Date 2021-06-18	50+2-1,2 CB ON-OFF COMMAND CONTROL CIRCUIT DIAGRAM (2)	Resp. dept.	Scale / Lang.
For Approval	2021-09-06	B							
For Approval	2021-08-17	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.	Sheet 1 / Cont. ～
Issued for	Date	Rev.	Derived fm	Replaces					

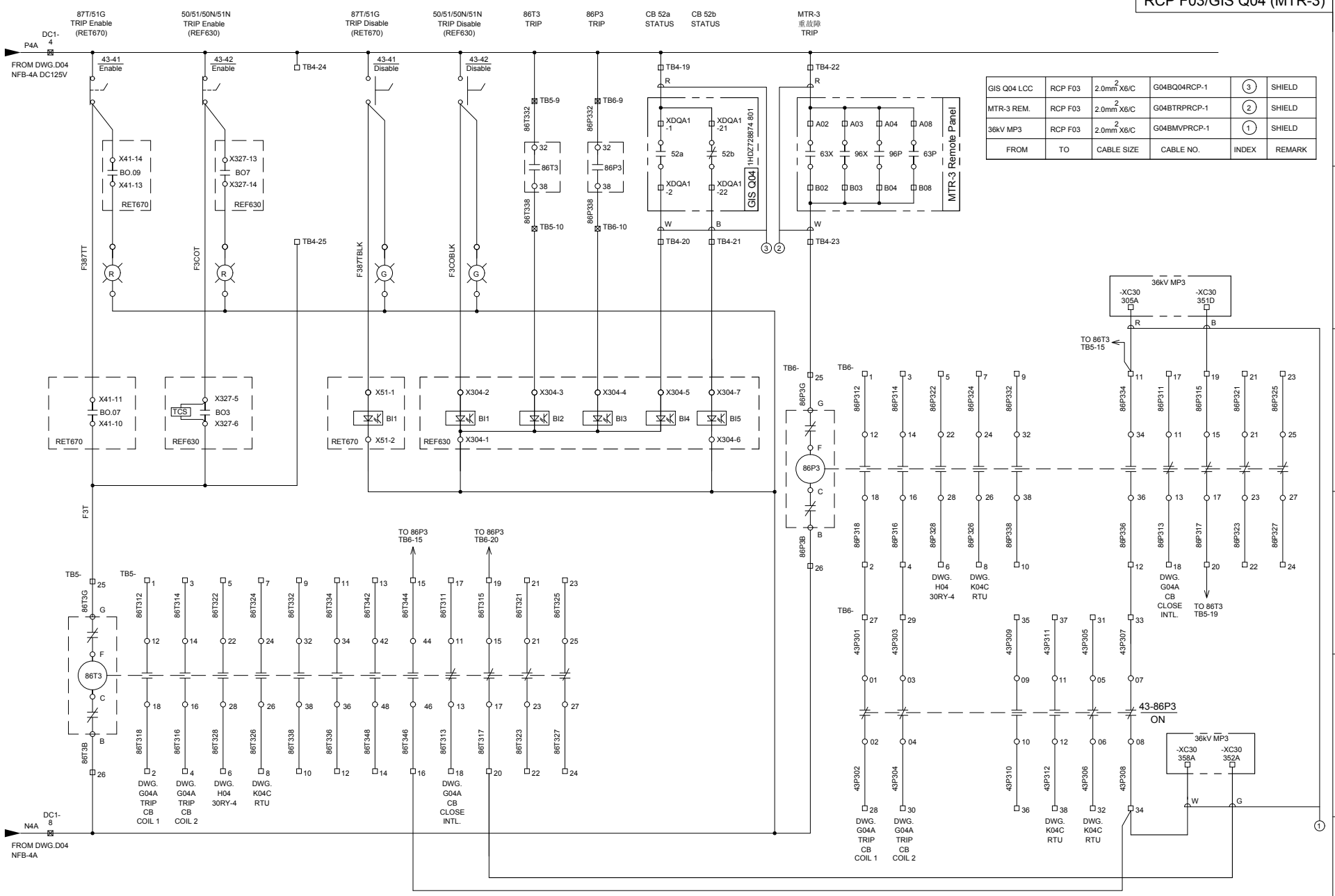
RCP F03/GIS Q04 (MTR-3)

FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK
GIS Q04 LCC	RCP	2 2.0mm X12/C	G04AQ04RCP-2	(2)	SHIELD
GIS Q04 LCC	RCP	2 2.0mm X6/C	G04AQ04RCP-1	(1)	SHIELD



			Project	Approved by	Date	Title	Doc. des.	DWG. NO.
For Approval	2021-09-08	C	VENA ENERGY 161KV GIS S/S PROJECT	Jeff Lu	2021-06-18	GIS Q04 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (1)		VENA- G04A
For Approval	2021-09-06	B		Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale / Lang.
For Approval	2021-08-17	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.	Sheet 1 / Cont. ～
Issued for	Date	Rev.	Derived fm / Replaces					

RCP F03/GIS Q04 (MTR-3)

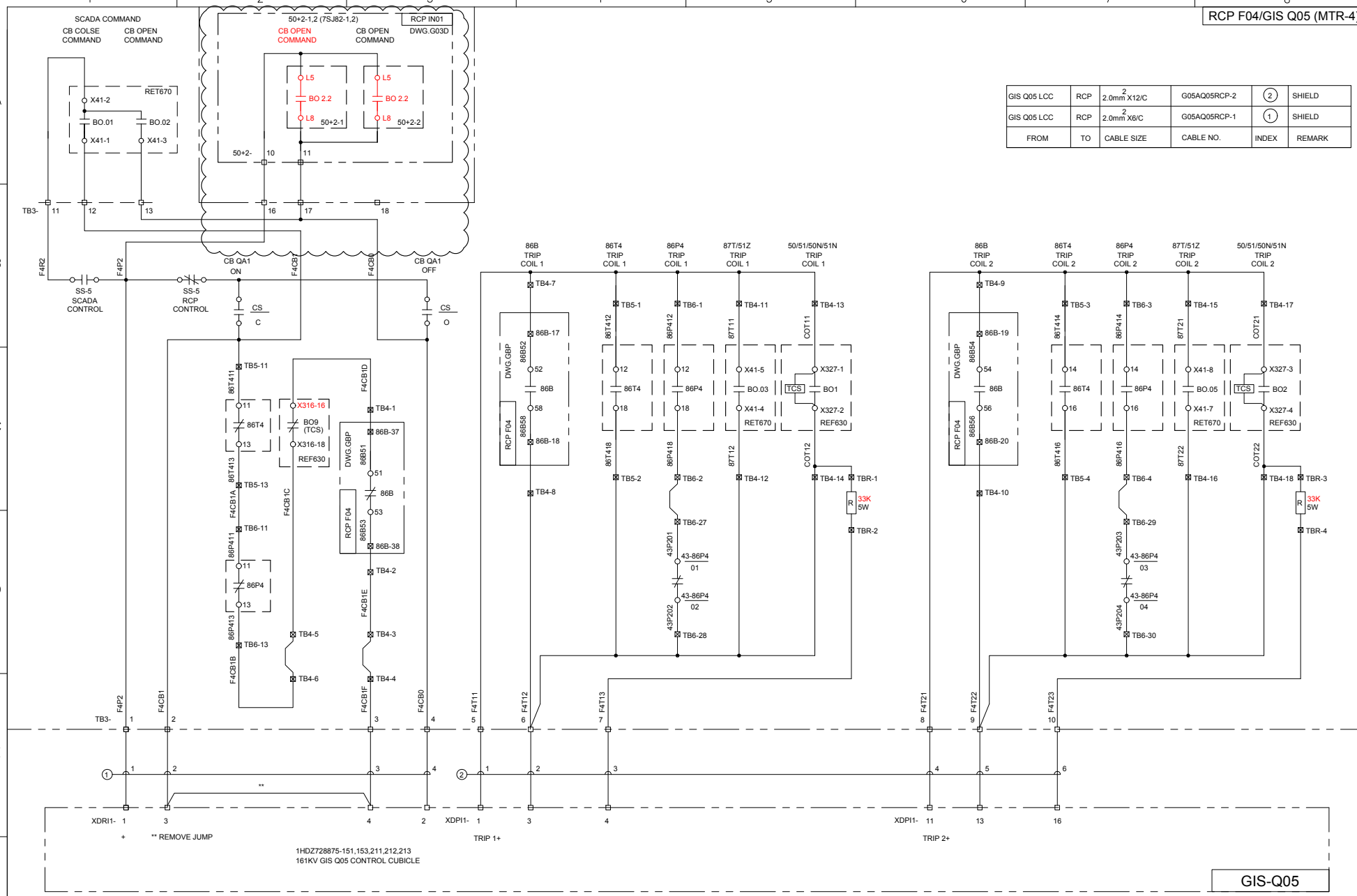


GIS Q04 LCC	RCP F03	2.0mm² X6/C	G04BQ04RCP-1	3	SHIELD
MTR-3 REM.	RCP F03	2.0mm² X6/C	G04BTRPRCP-1	2	SHIELD
36kV MP3	RCP F03	2.0mm² X6/C	G04BMVPRCP-1	1	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

			Project	VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title GIS Q04 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (2)	Doc. des.	DWG. NO. VENA- G04B
For Approval	2021-09-08	C			Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale / Lang.
For Approval	2021-09-06	B			Prepared by Chuan Hua	Date 2021-06-18	台灣日立電網股份有限公司	Doc. No.	Sheet 1
For Approval	2021-08-17	A	Customer 韋能台西						Cont. ～
Issued for	Date	Rev.	Derived fm	Replaces					

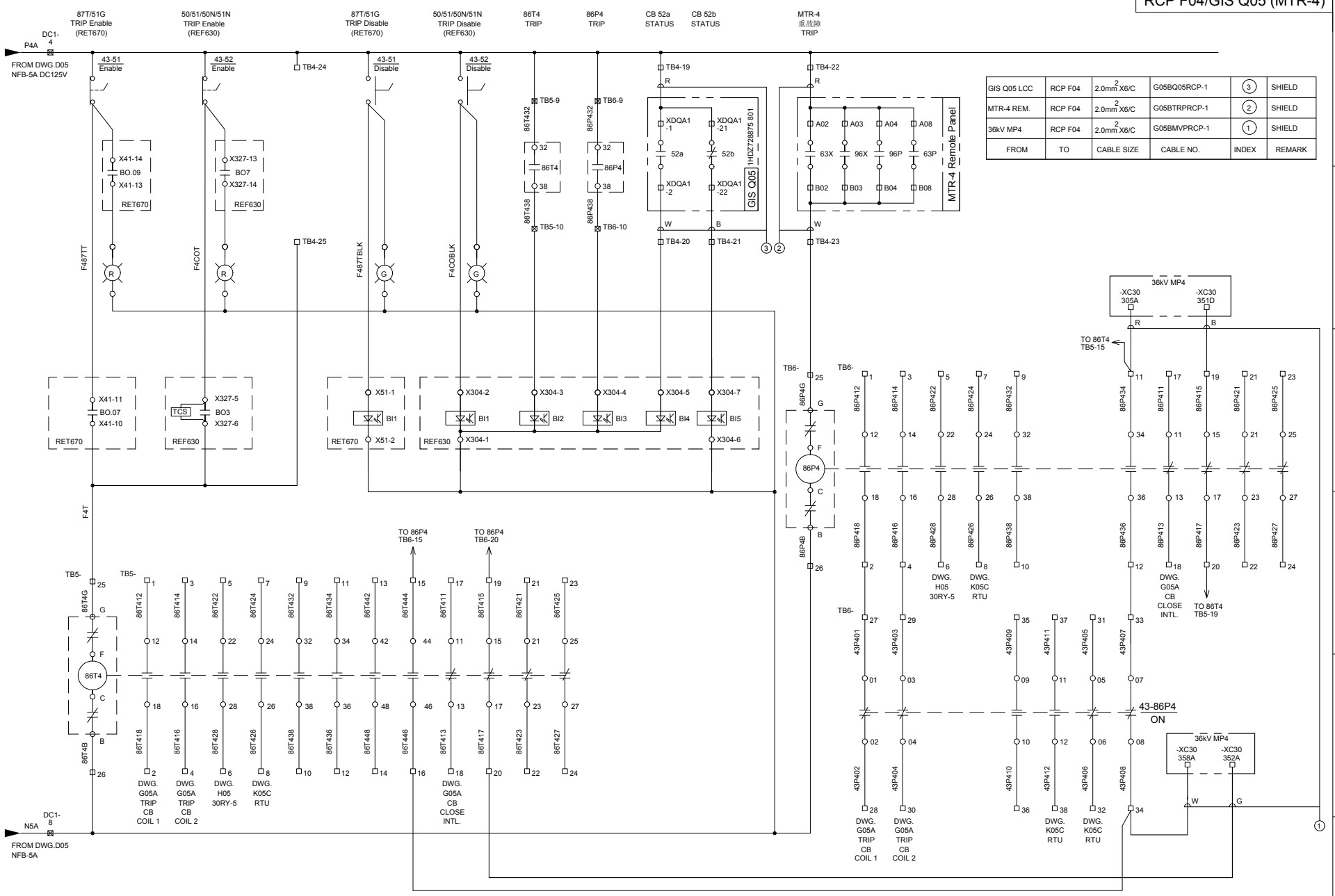
RCP F04/GIS Q05 (MTR-4)

FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK
GIS Q05 LCC	RCP	2.0mm² X12/C	G05AQ05RCP-2	(2)	SHIELD
GIS Q05 LCC	RCP	2.0mm² X6/C	G05AQ05RCP-1	(1)	SHIELD



			Project	Approved by	Date	Title	Doc. des.	DWG. NO.
For Approval	2021-09-08	C	VENA ENERGY 161KV GIS S/S PROJECT	Jeff Lu	2021-06-18	GIS Q05 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (1)		VENA- G05A
For Approval	2021-09-06	B		Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale / Lang.
For Approval	2021-08-17	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.	Sheet 1
Issued for	Date	Rev.	Derived fm / Replaces					Cont. ～

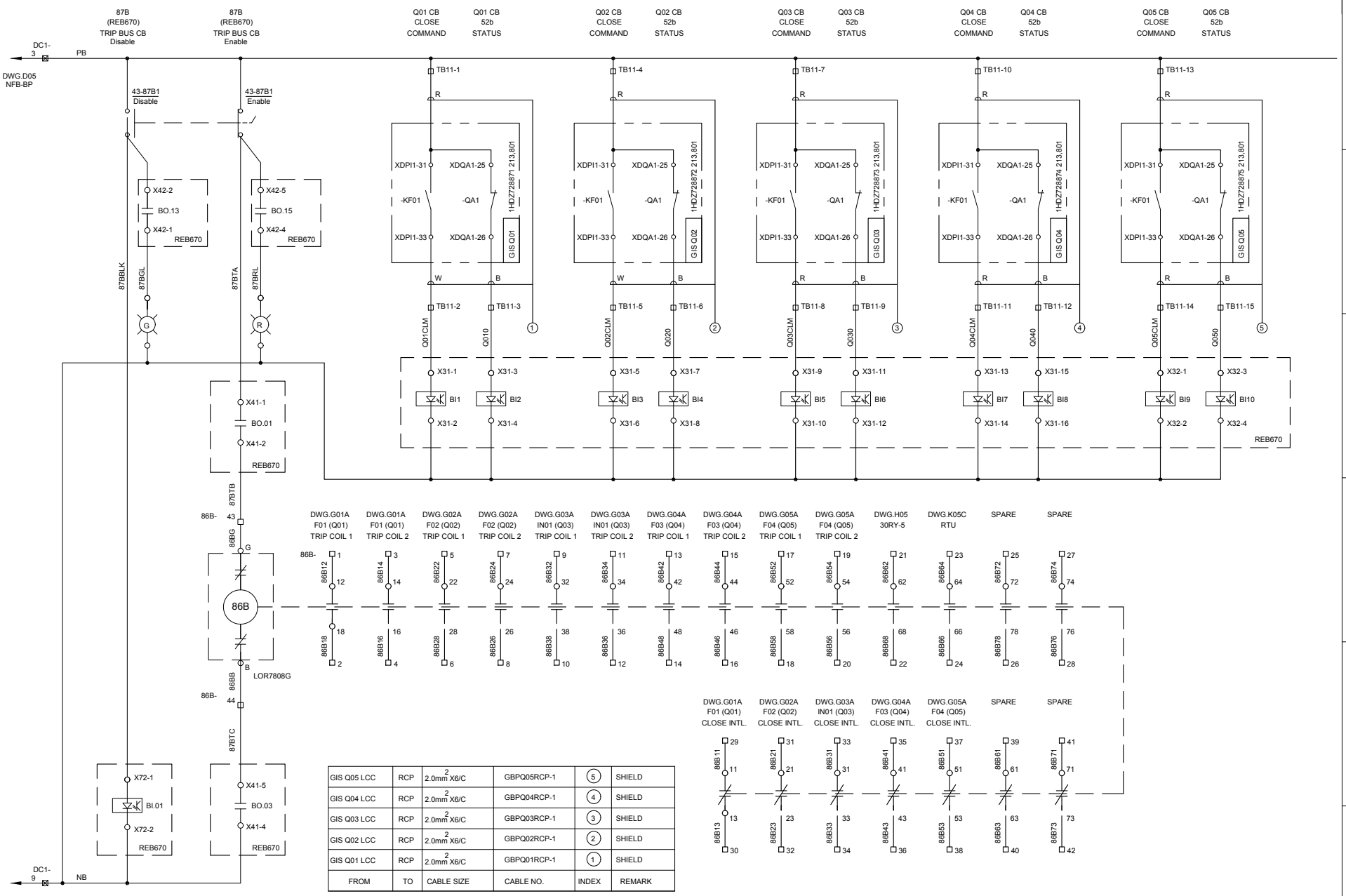
RCP F04/GIS Q05 (MTR-4)



GIS Q05 LCC	RCP F04	2.0mm² X6/C	G05BQ05RCP-1	3	SHIELD
MTR-4 REM.	RCP F04	2.0mm² X6/C	G05BTRPRCP-1	2	SHIELD
36kV MP4	RCP F04	2.0mm² X6/C	G05BMVPRCP-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 Q05 CB ON-OFF & TRIP CONTROL CIRCUIT DIAGRAM (2)	Doc. des.	DWG. NO. VENA- G05B
For Approval	2021-09-08	C			Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale / Lang.
For Approval	2021-09-06	B			Prepared by Chuan Hua	Date 2021-06-18	台灣日立電網股份有限公司	Doc. No.	Sheet 1
For Approval	2021-08-17	A	Customer 韋能台西						Cont. ～
Issued for	Date	Rev.	Derived fm	Replaces					

RCP F04/GIS Q05 (MTR-4)



FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK
GIS Q05 LCC	RCP	2.0mm² X6/C	GBPQ05RCP-1	5	SHIELD
GIS Q04 LCC	RCP	2.0mm² X6/C	GBPQ04RCP-1	4	SHIELD
GIS Q03 LCC	RCP	2.0mm² X6/C	GBPQ03RCP-1	3	SHIELD
GIS Q02 LCC	RCP	2.0mm² X6/C	GBPQ02RCP-1	2	SHIELD
GIS Q01 LCC	RCP	2.0mm² X6/C	GBPQ01RCP-1	1	SHIELD

Issued for	Date	Rev.	Derived fm	Replaces
For Approval	2021-09-08	C		
For Approval	2021-09-06	B		
For Approval	2021-08-17	A		

Project: VENA ENERGY
161KV GIS S/S PROJECT
Customer 韋能台西

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: 87B PROTECTION RELAY TRIP CIRCUIT DIAGRAM

台灣日立電網股份有限公司

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

RCP F01/GIS Q01 (MTR-1)

GIS Q01 LCC	RCP	2 2.0mm² X4/C	H01Q01RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

DC PANEL
NFB-A 2P 6A
PA1
NA1
BZ
PA
NA
TB8-13
TB8-14
DC 125V SOURCE

RB
B1
B2
BZ
RB
RB
A11
A12
A22
A23
A24

RCP F02
TB8-10
TB8-11
TB8-12
PA1
NA1
BZ
TO DWG.H02 FOR 30RY-2

RF1 1ARF1 — RET670 X11-3 IRF X11-2 — TBA-15 — RELAY RET670 FAULT ALARM
RF2 1ARF2 — REF630 X329-3 IRF X329-2 — TBA-16 — RELAY REF630 FAULT ALARM
RF4 1ARF4 — TBA-18 R -XDRI3 11 -XDRI3 1 W TBA-17 — GIS Q01 COLLECT ALARM
-XDRI3:11~26 SHORT 1HDZ728871 P.541,542
GIS-Q01

87T TRIP	TBA-1	RET670 X42-2 BO.13 X42-1	1A49	A49	A61 — 1A61 — 5 RF1 9 — RET670 RELAY FAULT ALARM
51G TRIP		BO.14 X42-3	1A50	A50	A62 — 1A62 — 5 RF2 9 — REF630 RELAY FAULT ALARM
50/51/50N/51N TRIP	TBA-2	REF630 X327-7 BO4 X327-8	1A51	A51	A63 — 1A63 — TBA-10 — TBA-5
SPARE	TBA-3		1A52	A52	A64 — 1A64 — TBA-11
86T1 TRIP	TB5-5	86T122 22 86T1 28 86T128	1A53	A53	A65 — 1A65 — TBA-12 — TBA-6
86P1 TRIP	TB6-5	86P122 22 86P1 28 86P128	1A54	A54	A66 — 1A66 — TBA-13
SPARE	TBA-4		1A55	A55	A67 — 1A67 — TBA-14
SPARE			1A56	A56	A68 — 1A68 — 5 RF4 9 — GIS Q01 FAULT ALARM
			1ACOM	A60	A72 — 1ACOM

30RY-1
(SACO 16D1)

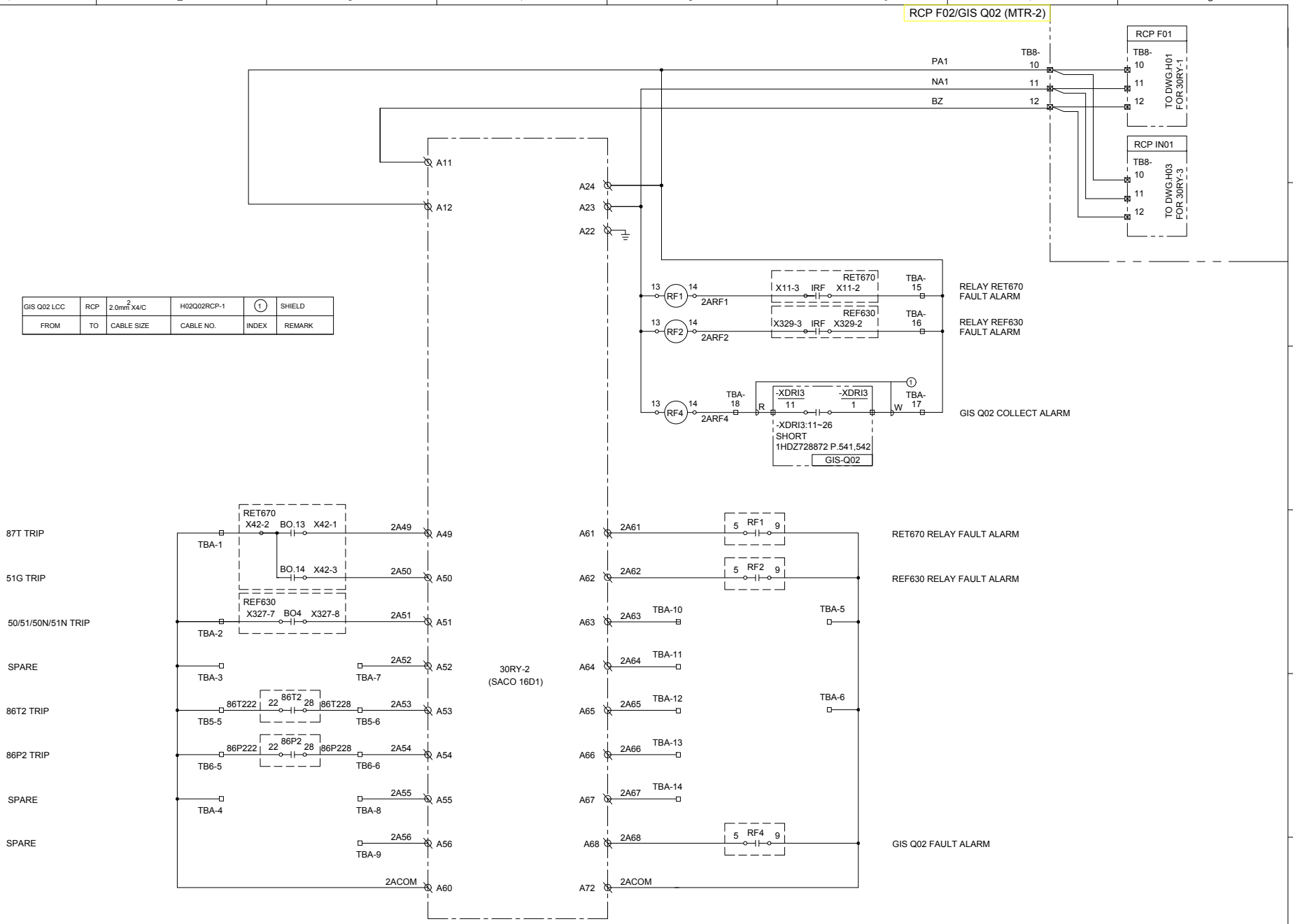
TBA-7
TBA-8
TBA-9
TB5-6
TB6-6

For Approval	2021-09-08	C	Project	VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18
For Approval	2021-09-06	B			Checked by Jeff Lu	Date 2021-06-18
For Approval	2021-08-17	A	Customer 韋能台西		Prepared by Chuan Hua	Date 2021-06-18
Issued for	Date	Rev.	Derived fm	Replaces		

Title: ALARM SYSTEM 30RY-1 WIRING DIAGRAM FOR RCP F01

台灣日立電網股份有限公司

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



For Approval	2021-09-08	C	Project VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title ALARM SYSTEM 30RY-2 WIRING DIAGRAM FOR RCP F02	Doc. des. / DWG. NO. VENA-H02
For Approval	2021-09-06	B		Checked by Jeff Lu	Date 2021-06-18		Resp. dept. / Scale / Lang.
For Approval	2021-08-17	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. / Sheet 1 / Cont. ～
Issued for	Date	Rev.	Derived fm / Replaces				

RCP IN01/GIS Q03 (TPC)

GIS Q03 LCC	RCP	2 2.0mm X4/C	H03Q03RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

PA1 — BZ — A11 — A12

RCP F02: TB8-10 PA1, TB8-11 NA1, TB8-12 BZ — TO DWG.H02 FOR 30RY-2

RCP F03: TB8-10 PA1, TB8-11 NA1, TB8-12 BZ — TO DWG.H04 FOR 30RY-4

A24 / A23 / A22

RF1 (3ARF1)	7SL86-1 B7 IRF B10	TBA-14	RELAY 7SL86-1 FAULT ALARM
RF2 (3ARF2)	7SL86-2 B7 IRF B10	TBA-14	RELAY 7SL86-2 FAULT ALARM
RF3 (3ARF3)	7SJ82-1 L7 IRF L10	TBA-15	RELAY 7SJ82-1 FAULT ALARM
RF4 (3ARF4)	7SJ82-2 L7 IRF L10	TBA-15	RELAY 7SJ83-2 FAULT ALARM
RF5 (3ARF5)	TBA-18 R -XDRI3 11 -XDRI3 1 W TBA-17		GIS Q03 COLLECT ALARM

-XDRI3:11~26 SHORT
1HDZ728873 P.541,542
GIS-Q03

A61	3A61	5 RF1 9	7SL86-1 RELAY FAULT ALARM
		5 RF3 9	7SJ82-1 RELAY FAULT ALARM
A62	3A62 TBA-8	7SL86-1 C10 BO1.6 C7	87L1 COMM. FAULT ALARM
		7SJ82-1 B14 BO1.3 B13	50+2-1 COMM. FAULT ALARM
A62	3A62	5 RF2 9	7SL86-2 RELAY FAULT ALARM
		5 RF4 9	7SJ82-2 RELAY FAULT ALARM
A63	3A63 TBA-9	7SL86-2 C10 BO1.6 C7	87L2 COMM. FAULT ALARM
		7SJ82-2 B14 BO1.3 B13	50+2-2 COMM. FAULT ALARM
A64	3A64 TBA-10	TBA-5	
A65	3A65 TBA-11		
A66	3A66 TBA-12		SPARE
A67	3A67 TBA-13	TBA-6	SPARE
A68	3A68	5 RF5 9	GIS Q03 FAULT ALARM
A72	3ACOM		

30RY-1 (SACO 16D1)

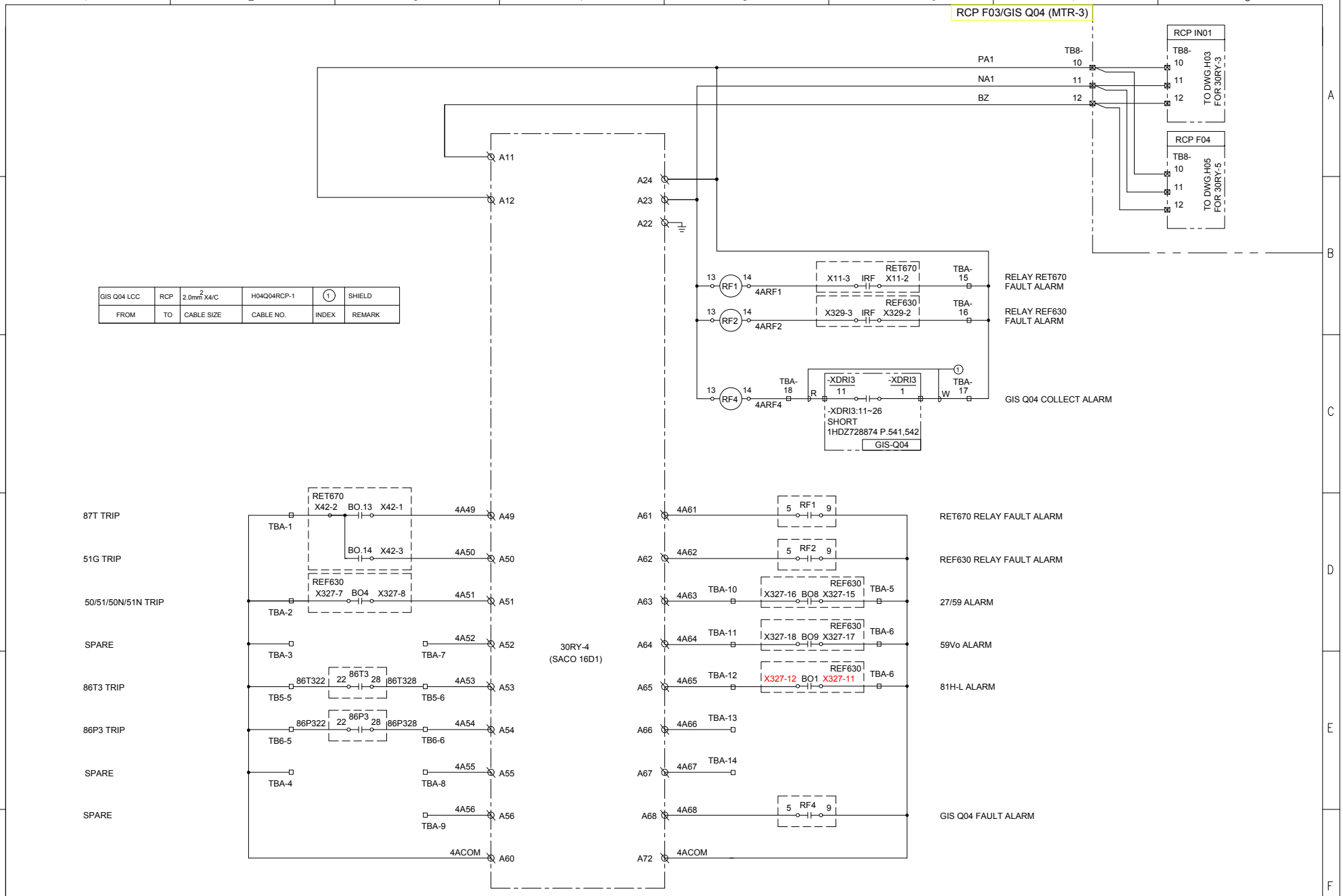
87L1 TRIP	TBA-1	7SL86-1 B11 BO1.2 B12	3A49	A49
DTT1 TRIP	TBA-1	B3 BO2.1 B4	3A50	A50
21/21N-1 TRIP	TBA-2	B5 BO2.2 B8	3A51	A51
86L TRIP	TB5-5 86L22	86L 22 28	86L28 TB5-6 3A52	A52
87L2 TRIP	TBA-2	7SL86-2 B11 BO1.2 B12	3A53	A53
DTT2 TRIP	TBA-3	B3 BO2.1 B4	3A54	A54
21/21N-2 TRIP	TBA-3	B5 BO2.2 B8	3A55	A55
SPARE	TBA-4	TBA-7	3A56	A56
			3ACOM	A60

				Project	VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18
For Approval	2021-09-08	C				Checked by Jeff Lu	Date 2021-06-18
For Approval	2021-09-06	B		Customer 韋能台西		Prepared by Chuan Hua	Date 2021-06-18
For Approval	2021-08-17	A		Derived fm	Replaces	台灣日立電網股份有限公司	
Issued for	Date	Rev.					

Title: ALARM SYSTEM 30RY-3 WIRING DIAGRAM FOR RCP IN01

Doc. des. | Resp. dept. | Doc. No.

DWG. NO. VENA-H03 | Scale | Lang. | Sheet 1 | Cont. ～



			Project	VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title ALARM SYSTEM 30RY-4 WIRING DIAGRAM FOR RCP F03	Doc. des.	DWG. NO. VENA-H04
For Approval	2021-09-08	C			Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale	Lang.
For Approval	2021-09-06	B			Prepared by Chuan Hua	Date 2021-06-18	台灣日立電網股份有限公司	Doc. No.		Sheet 1
For Approval	2021-08-17	A	Customer 韋能台西							Cont. ～
Issued for	Date	Rev.	Derived fm	Replaces						

RCP F04/GIS Q05 (MTR-4)

RCP F03

TB8-10 PA1 → RCP F03 TB8-10
TB8-11 NA1 → RCP F03 TB8-11
TB8-12 BZ → RCP F03 TB8-12
TO DWG.H04 FOR 30RY-4

GIS Q05 LCC	RCP	2.0mm² X4/C	H05Q05RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

A11
A12
A24
A23
A22

RF1 13/14 5ARF1 — RET670 X11-3 IRF X11-2 — TBA-15 — RELAY RET670 FAULT ALARM
RF2 13/14 5ARF2 — REF630 X329-3 IRF X329-2 — TBA-15 — RELAY REF630 FAULT ALARM
RF3 13/14 5ARF3 — REB670 X11-3 IRF X11-2 — TBA-16 — RELAY REB670 FAULT ALARM
RF4 13/14 5ARF4 — TBA-18 R — -XDRI3 11 / -XDRI3 1 — W TBA-17 — GIS Q05 COLLECT ALARM

-XDRI3:11~26
SHORT
1HDZ728875 P.541,542
GIS-Q05

87T TRIP	RET670 X42-2 BO.13 X42-1	TBA-1	5A49	A49
51G TRIP	RET670 BO.14 X42-3		5A50	A50
50/51/50N/51N TRIP	REF630 X327-7 BO4 X327-8	TBA-2	5A51	A51
87B TRIP	REB670 X41-8 BO5 X41-7	TBA-3	5A52	A52
86T4 TRIP	86T422 22 86T4 28 86T428	TB5-5 / TB5-6	5A53	A53
86P4 TRIP	86P422 22 86P4 28 86P428	TB6-5 / TB6-6	5A54	A54
86B TRIP	86B62 62 86B 68 86B68	86B-21 / 86B-22	5A55	A55
SPARE		TBA-4 / TBA-9	5A56	A56
			5ACOM	A60

30RY-5
(SACO 16D1)

A61	5A61	5 RF1 9	TBA-11	TBA-5
A62	5A62	5 RF2 9	TBA-12	
A63	5A63	5 RF3 9	TBA-13	TBA-6
A64	5A64		TBA-14	
A65	5A65			
A66	5A66			
A67	5A67			
A68	5A68	5 RF4 9		
A72	5ACOM			

RET670 RELAY FAULT ALARM
REF630 RELAY FAULT ALARM
REB670 RELAY FAULT ALARM
GIS Q05 FAULT ALARM

			Project	VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title ALARM SYSTEM 30RY-5 WIRING DIAGRAM FOR RCP F04	Doc. des.	DWG. NO. VENA-H05
For Approval	2021-09-08	C			Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale	Lang.
For Approval	2021-09-06	B			Prepared by Chuan Hua	Date 2021-06-18	台灣日立電網股份有限公司	Doc. No.		Sheet 1
For Approval	2021-08-17	A	Customer 韋能台西							Cont. ～
Issued for	Date	Rev.	Derived fm	Replaces						

30RY-1 (F01)

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

30RY-2 (F02)

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

			Project VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title ALARM SYSTEM WINDOWS DIAGRAM FOR RCP F01 & RCP F02	Doc. des.	DWG. NO. VENA-101
For Approval	2021-09-08	C		Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale / Lang.
For Approval	2021-08-17	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.	Sheet 1
Issued for	Date	Rev.	Derived fm / Replaces					Cont. ～

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 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title ALARM SYSTEM WINDOWS DIAGRAM FOR RCP IN01	Doc. des.	DWG. NO. VENA- I02	
For Approval	2021-09-08	C		Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale	Lang.
For Approval	2021-09-06	B							
For Approval	2021-08-17	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.		Sheet 1
Issued for	Date	Rev.	Derived fm / Replaces						Cont. ～

30RY-4 (F03)

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
BUS 81H-L ALARM 13	14	15	161KV GIS Q04 FAULT ALARM 16

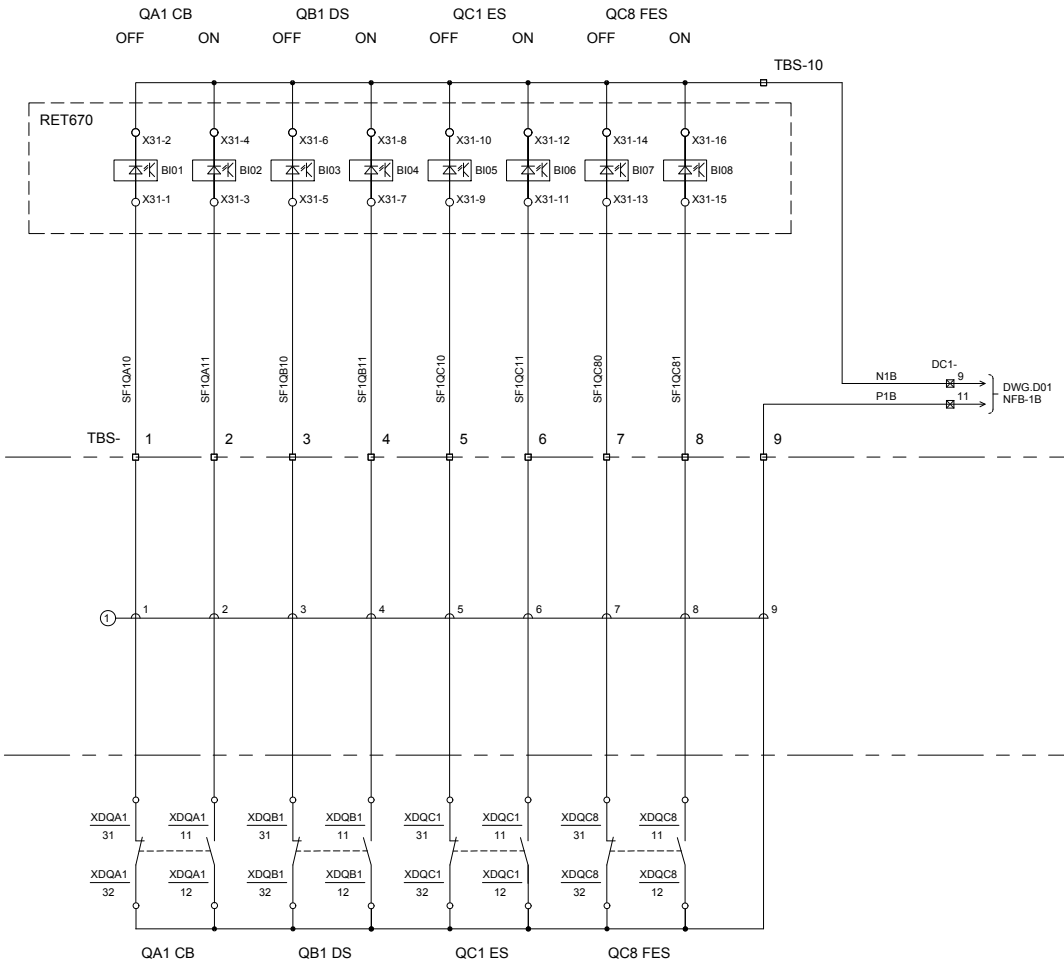
30RY-5 (F04)

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

			Project	VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title ALARM SYSTEM WINDOWS DIAGRAM FOR RCP F03 & RCP F04	Doc. des.	DWG. NO. VENA-103
For Approval	2021-09-08	C			Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale / Lang.
For Approval	2021-09-06	B	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.	Sheet 1
For Approval	2021-08-17	A	Derived fm	Replaces					Cont. ～
Issued for	Date	Rev.							

RCP F01/GIS Q01 (MTR-1)

GIS Q01 CB & DS & ES ON-OFF STATUS CIRCUIT DIAGRAM FOR SCADA SYSTEM



161KV GIS Q01 CONTROL PANEL(1HDZ728871 801~804)

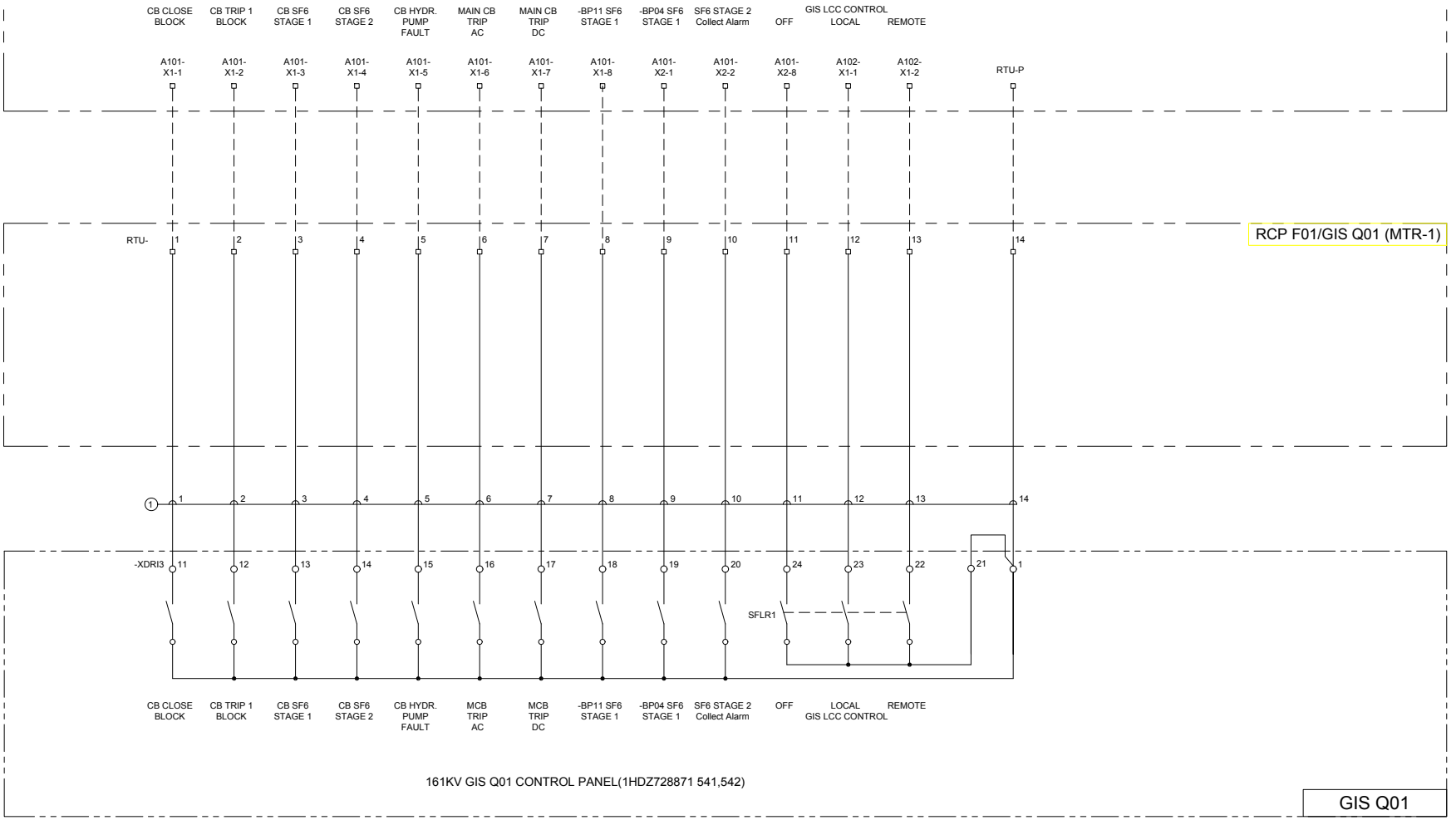
GIS-Q01

GIS Q01 LCC	RCP	2.0mm² X12/C	K01AQ01RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

For Approval	2021-09-08	C	Project VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title GIS Q01 CB & DS & ES ON-OFF STATUS FOR SCADA	Doc. des.	DWG. NO. VENA-K01A
For Approval	2021-09-06	B		Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale / Lang.
For Approval	2021-08-17	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.	Sheet 1
Issued for	Date	Rev.	Derived fm / Replaces					Cont. ～

GIS Q01 ALARM STATUS CIRCUIT DIAGRAM FOR RTU SYSTEM

(非本工程範圍)



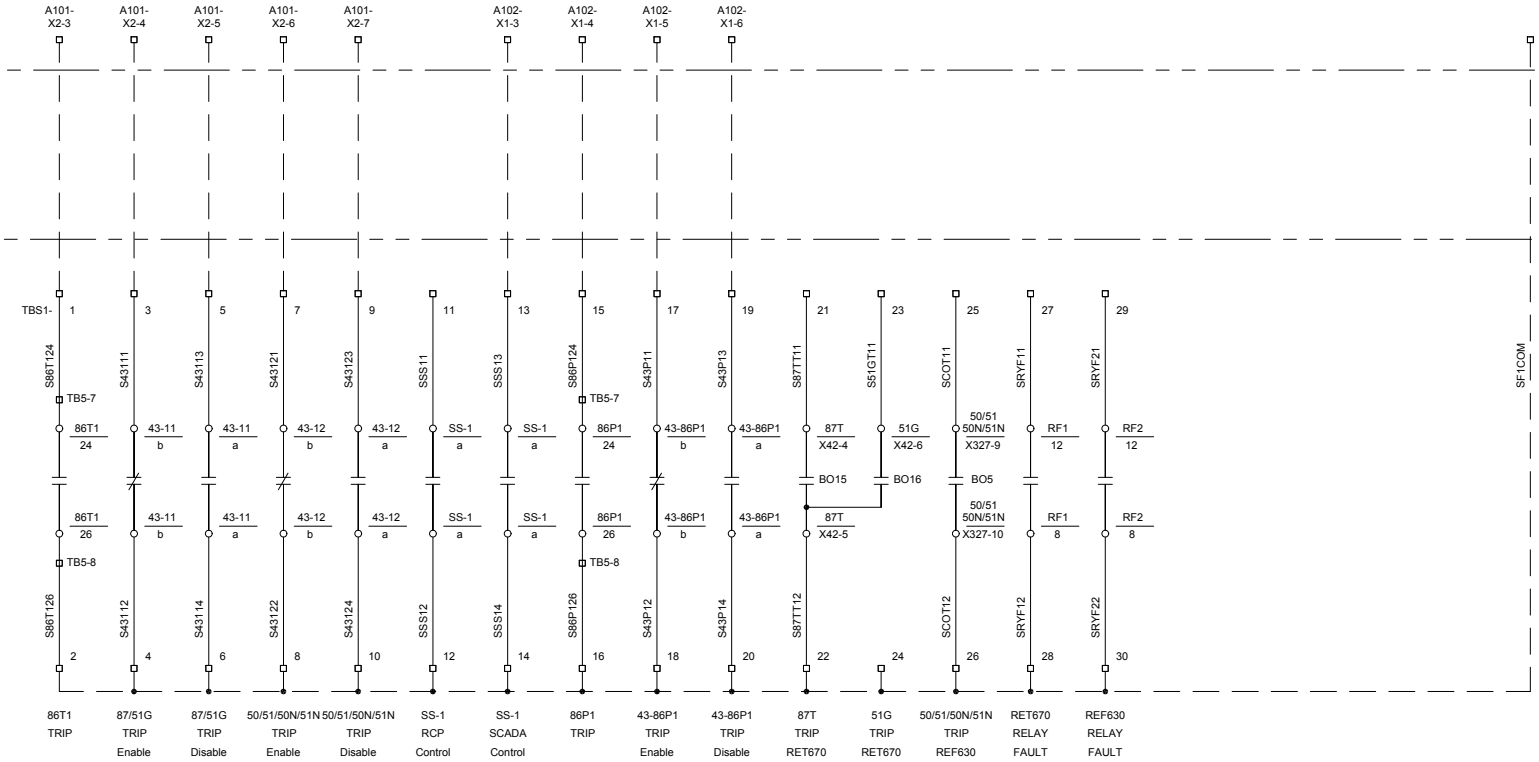
161KV GIS Q01 CONTROL PANEL(1HDZ728871 541,542)

GIS Q01

GIS Q01 LCC	RCP	2.0mm² X16/C	K01BQ01RCP-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 Q01 ALARM STATUS FOR RTU	Doc. des. / DWG. NO. VENA-K01B
For Approval	2021-09-08	C			Checked by Jeff Lu	Date 2021-06-18		Resp. dept. / Scale / Lang.
For Approval	2021-09-06	B			Prepared by Chuan Hua	Date 2021-06-18	台灣日立電網股份有限公司	Doc. No. / Sheet 1
For Approval	2021-08-17	A	Customer 韋能台西					Cont. ～
Issued for	Date	Rev.	Derived fm	Replaces				

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

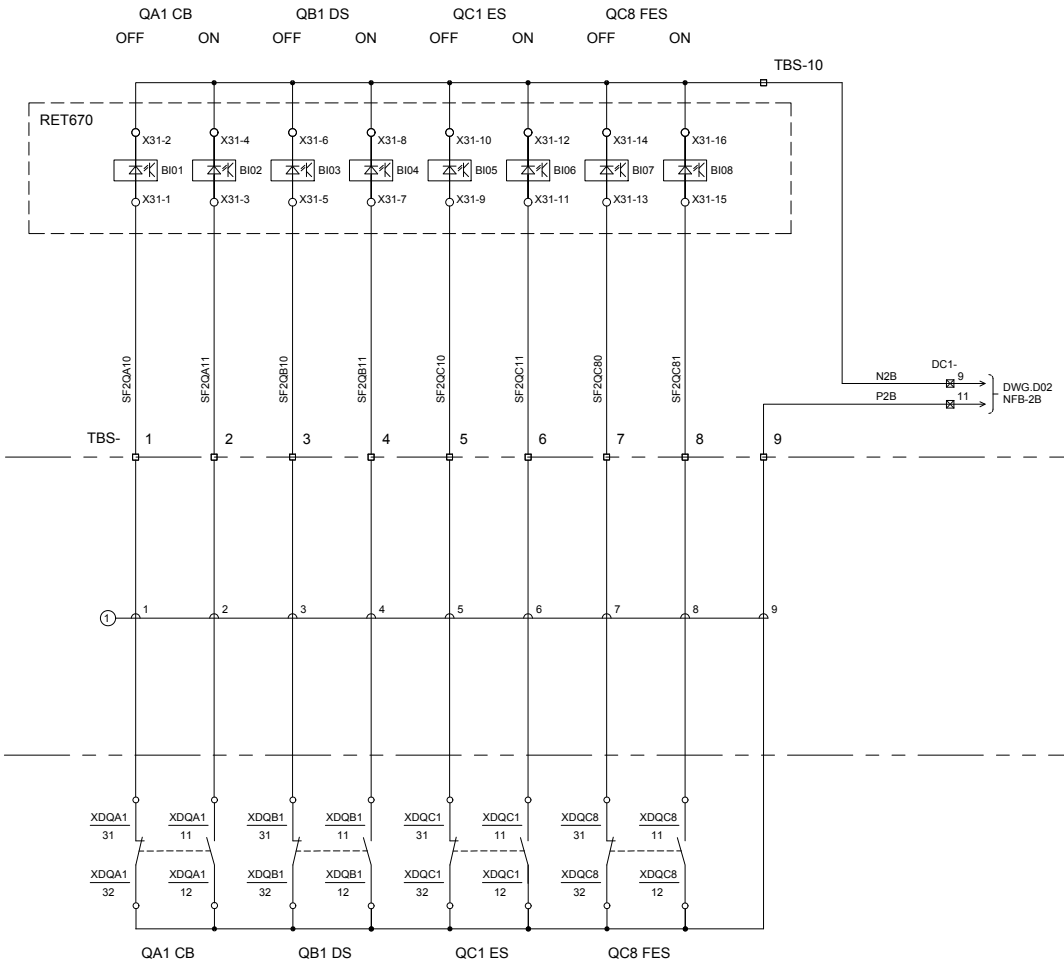


RCP F01/GIS Q01 (MTR-1)

			Project VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title RCP F01 PROTECTION RELAY & 43 STATUS FOR RTU	Doc. des.	DWG. NO. VENA-K01C	
For Approval	2021-09-08	C		Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale	Lang.
For Approval	2021-09-06	B		Prepared by Chuan Hua	Date 2021-06-18	台灣日立電網股份有限公司	Doc. No.		Sheet 1
For Approval	2021-08-17	A	Customer 韋能台西						Cont. ～
Issued for	Date	Rev.	Derived fm	Replaces					

RCP F02/GIS Q02 (MTR-2)

161KV GIS Q02 CB & DS & ES ON-OFF STATUS CIRCUIT DIAGRAM FOR SCADA SYSTEM



161KV GIS Q02 CONTROL PANEL(1HDZ728872 801~804)

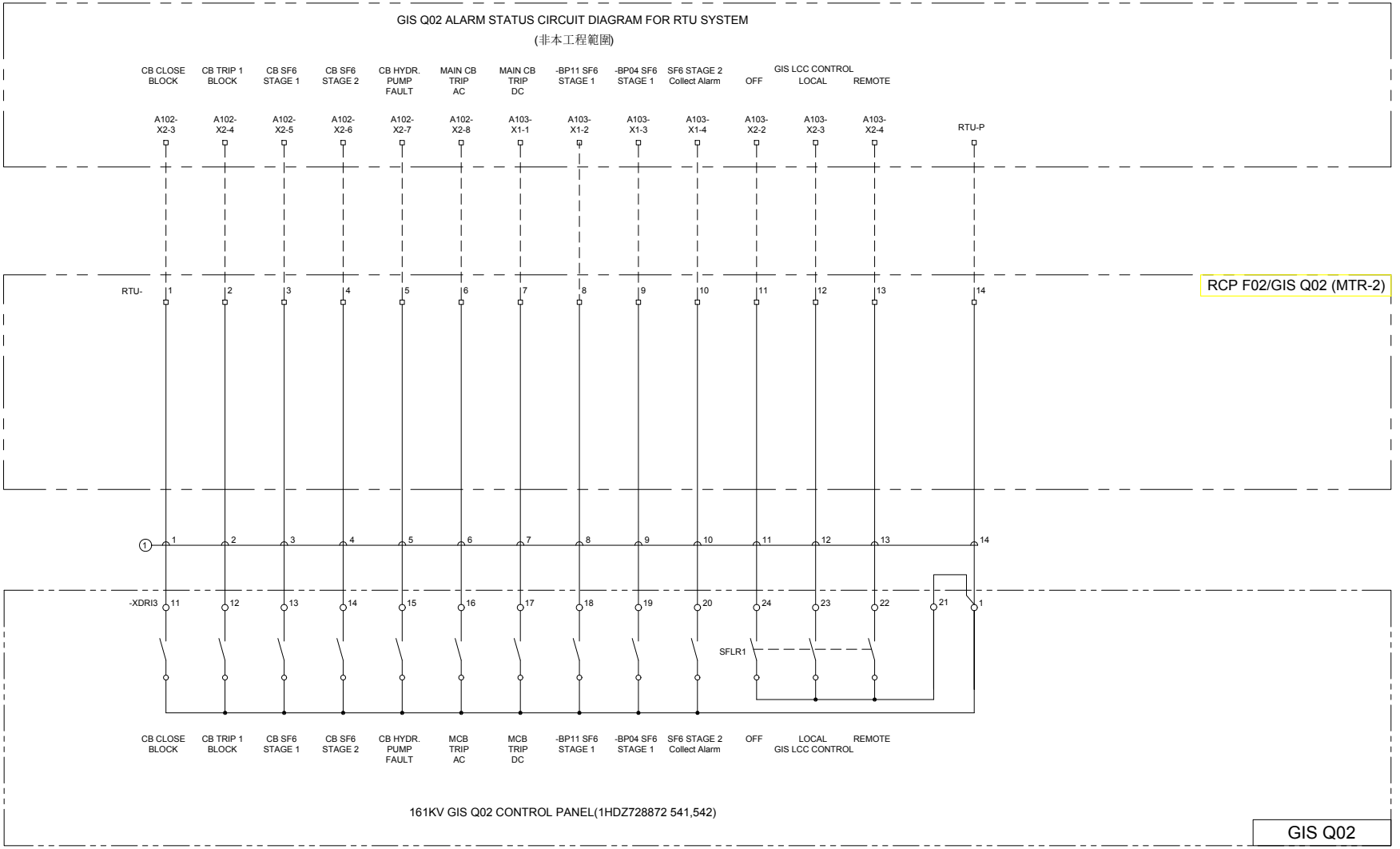
GIS-Q02

GIS Q02 LCC	RCP	2.0mm² X12/C	K02AQ02RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

For Approval	2021-09-08	C	Project VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title GIS Q02 CB & DS & ES ON-OFF STATUS FOR SCADA	Doc. des.	DWG. NO. VENA-K02A
For Approval	2021-09-06	B		Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale / Lang.
For Approval	2021-08-17	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.	Sheet 1 / Cont. ～
Issued for	Date	Rev.	Derived fm / Replaces					

GIS Q02 ALARM STATUS CIRCUIT DIAGRAM FOR RTU SYSTEM

(非本工程範圍)

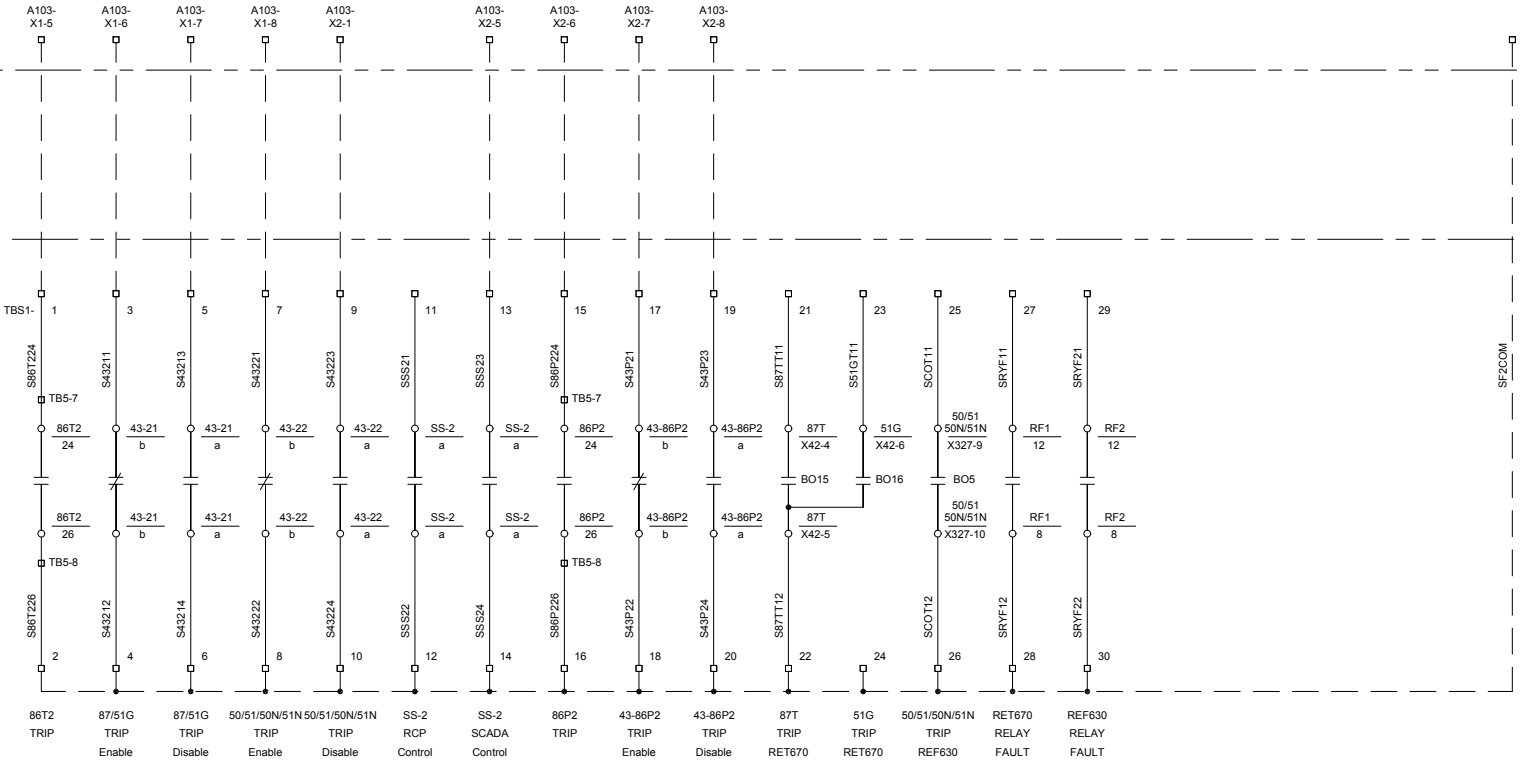


GIS Q02 LCC	RCP	2.0mm² X16/C	K02BQ02RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

			Project	VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title GIS Q02 ALARM STATUS FOR RTU
For Approval	2021-09-08	C					
For Approval	2021-09-06	B			Checked by Jeff Lu	Date 2021-06-18	
For Approval	2021-08-17	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
Issued for	Date	Rev.	Derived fm	Replaces			

Doc. des.	DWG. NO. VENA-K02B	
Resp. dept.	Scale	Lang.
Doc. No.		Sheet 1
		Cont. ～

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

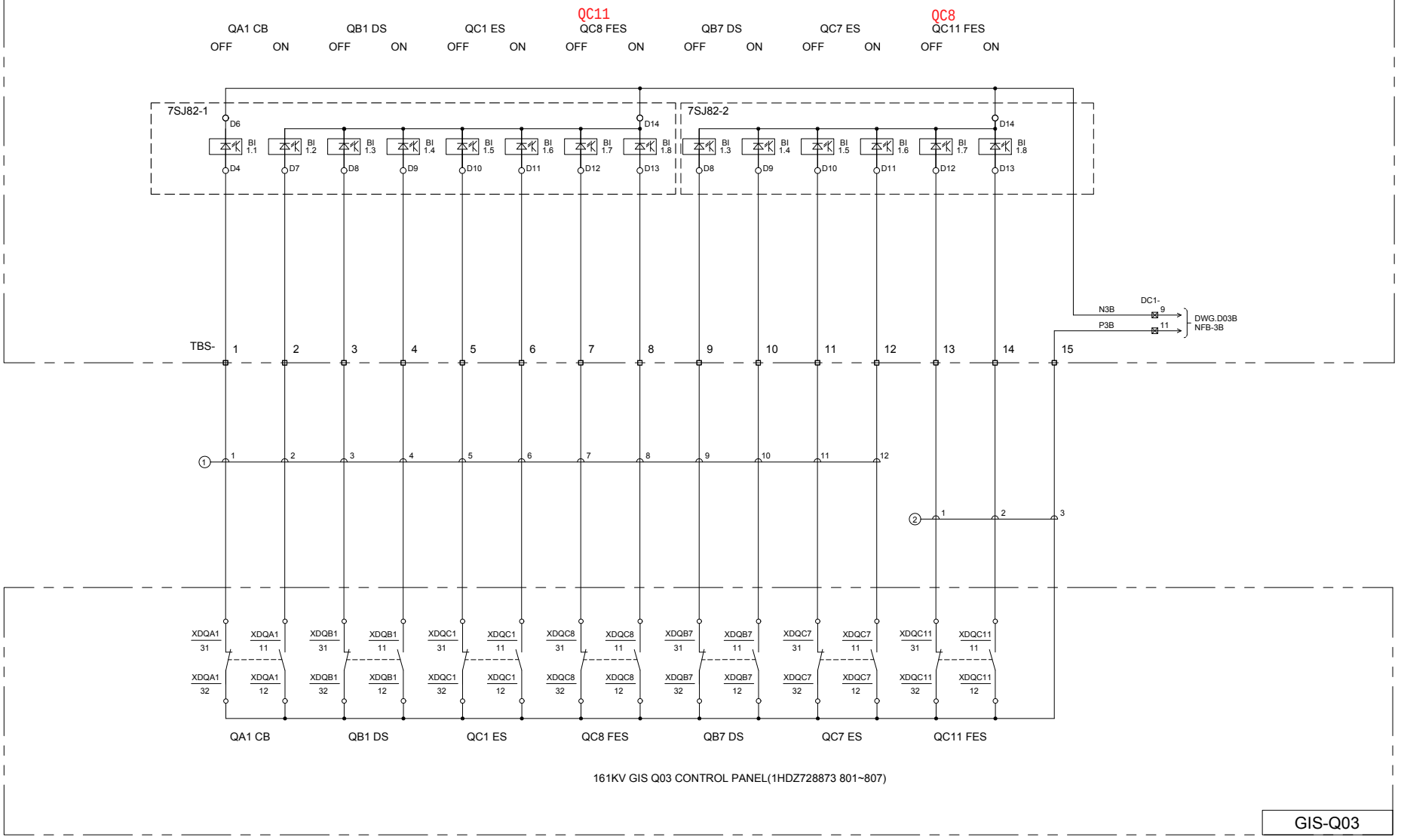


RCP F02/GIS Q02 (MTR-2)

			Project VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title RCP F02 PROTECTION RELAY & 43 STATUS FOR RTU	Doc. des.	DWG. NO. VENA-K02C	
For Approval	2021-09-08	C		Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale	Lang.
For Approval	2021-09-06	B		Prepared by Chuan Hua	Date 2021-06-18	台灣日立電網股份有限公司	Doc. No.		Sheet 1
For Approval	2021-08-17	A	Customer 韋能台西						Cont. ～
Issued for	Date	Rev.	Derived fm	Replaces					

RCP IN01/GIS Q03 (TPC)

161KV GIS Q03 CB & DS & ES ON-OFF STATUS CIRCUIT DIAGRAM FOR SCADA SYSTEM



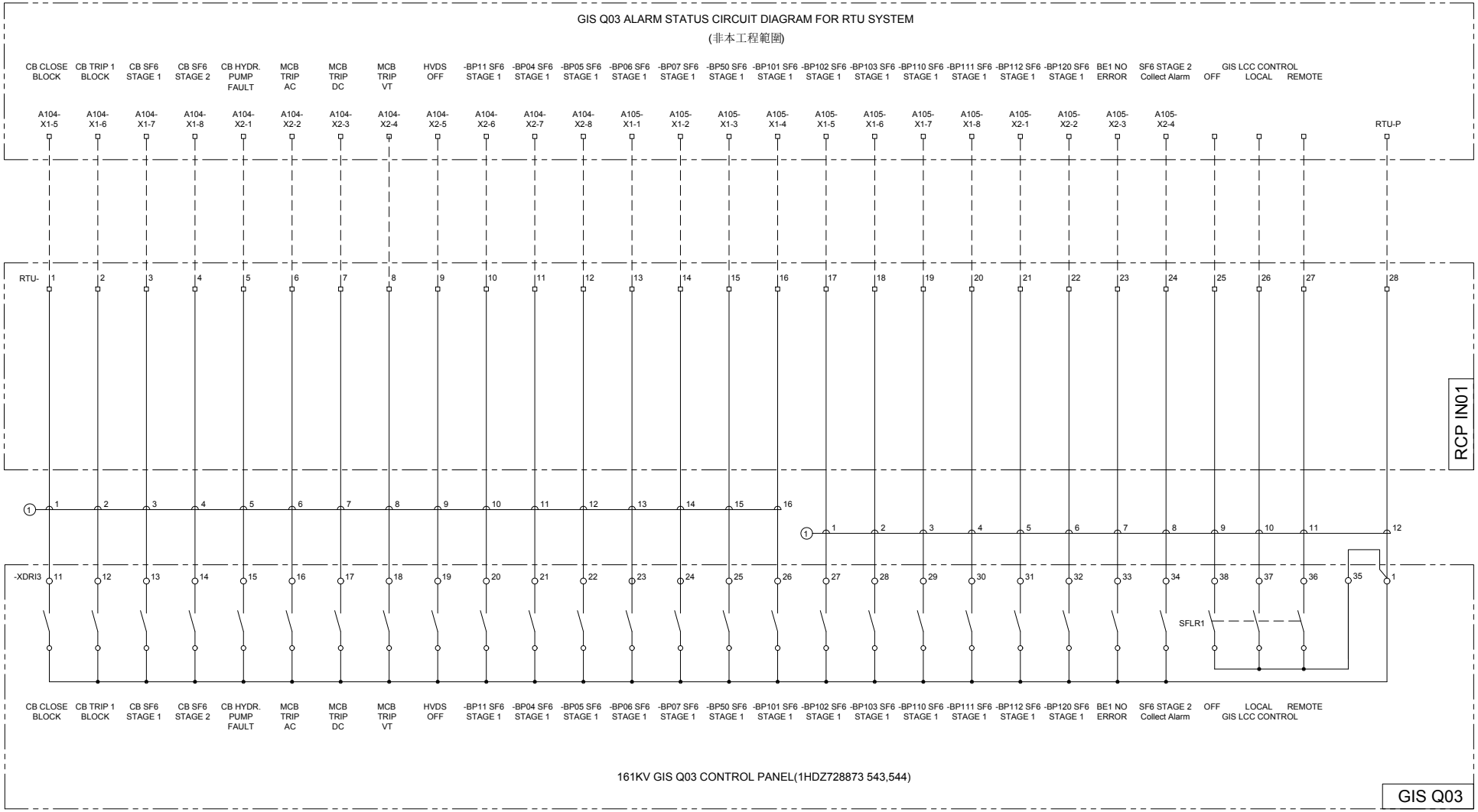
GIS-Q03

GIS Q03 LCC	RCP	2.0mm² X12/C	K03AQ03RCP-2	②	SHIELD
GIS Q03 LCC	RCP	2.0mm² X12/C	K03AQ03RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

For Approval	2021-09-08	C	Project VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title GIS Q03 CB & DS & ES ON-OFF STATUS FOR SCADA	Doc. des. / DWG. NO. VENA-K03A
For Approval	2021-09-06	B		Checked by Jeff Lu	Date 2021-06-18		Resp. dept. / Scale / Lang.
For Approval	2021-08-17	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. / Sheet 1 / Cont. ～
Issued for	Date	Rev.	Derived fm / Replaces				

GIS Q03 ALARM STATUS CIRCUIT DIAGRAM FOR RTU SYSTEM

(非本工程範圍)

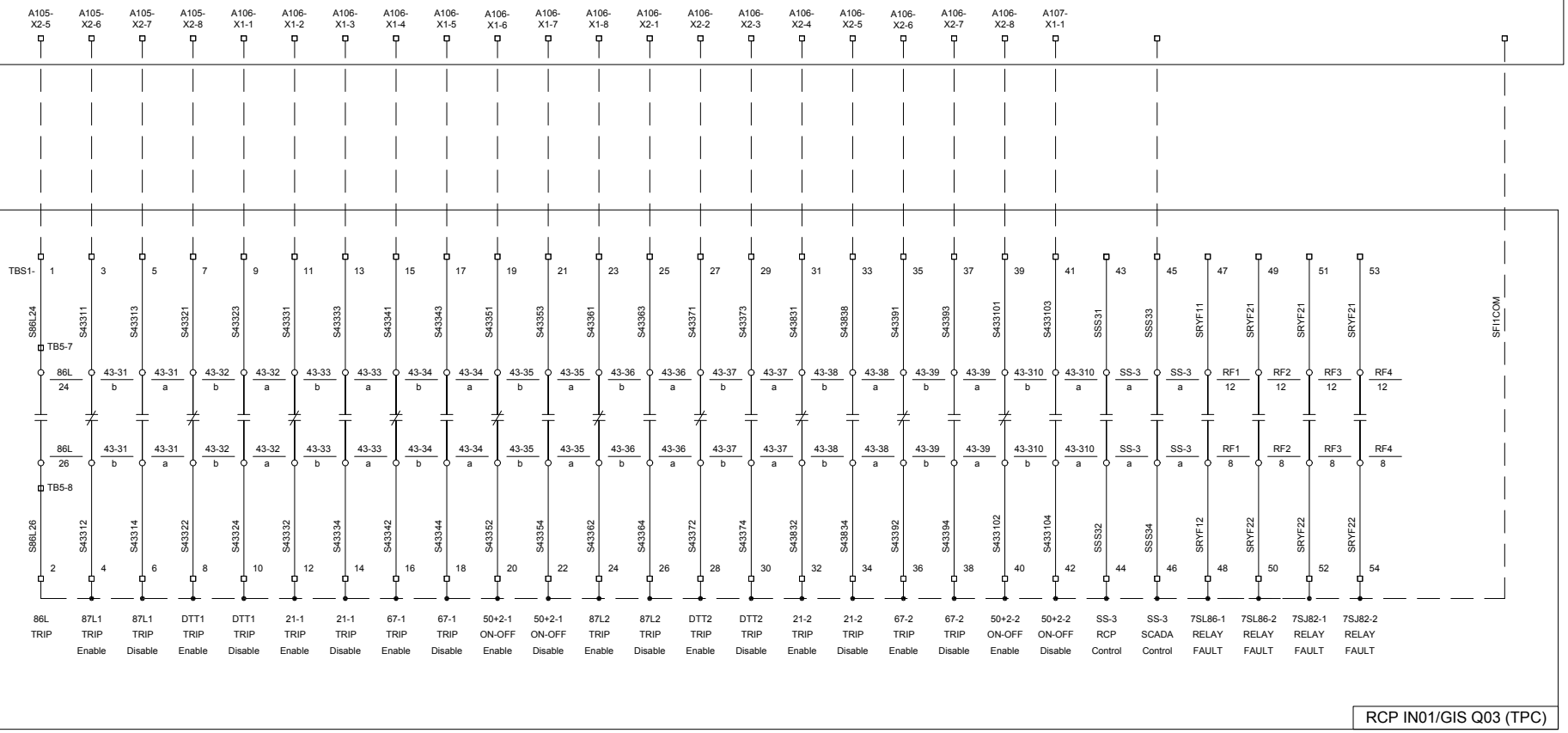


GIS Q03 LCC	RCP	2 2.0mm X16/C	K03BQ03RCP-2	①	SHIELD
GIS Q03 LCC	RCP	2 2.0mm X16/C	K03BQ03RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

			Project	VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title GIS Q03 ALARM STATUS FOR RTU
For Approval	2021-09-08	C					
For Approval	2021-09-06	B			Checked by Jeff Lu	Date 2021-06-18	
For Approval	2021-08-17	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
Issued for	Date	Rev.	Derived fm	Replaces			

Doc. des.	DWG. NO. VENA-K03B	
Resp. dept.	Scale	Lang.
Doc. No.		Sheet 1
		Cont. ～

RCP IN01 PROTECTION RELAY & 43 STATUS CIRCUIT DIAGRAM FOR RTU SYSTEM
(非本工程範圍)

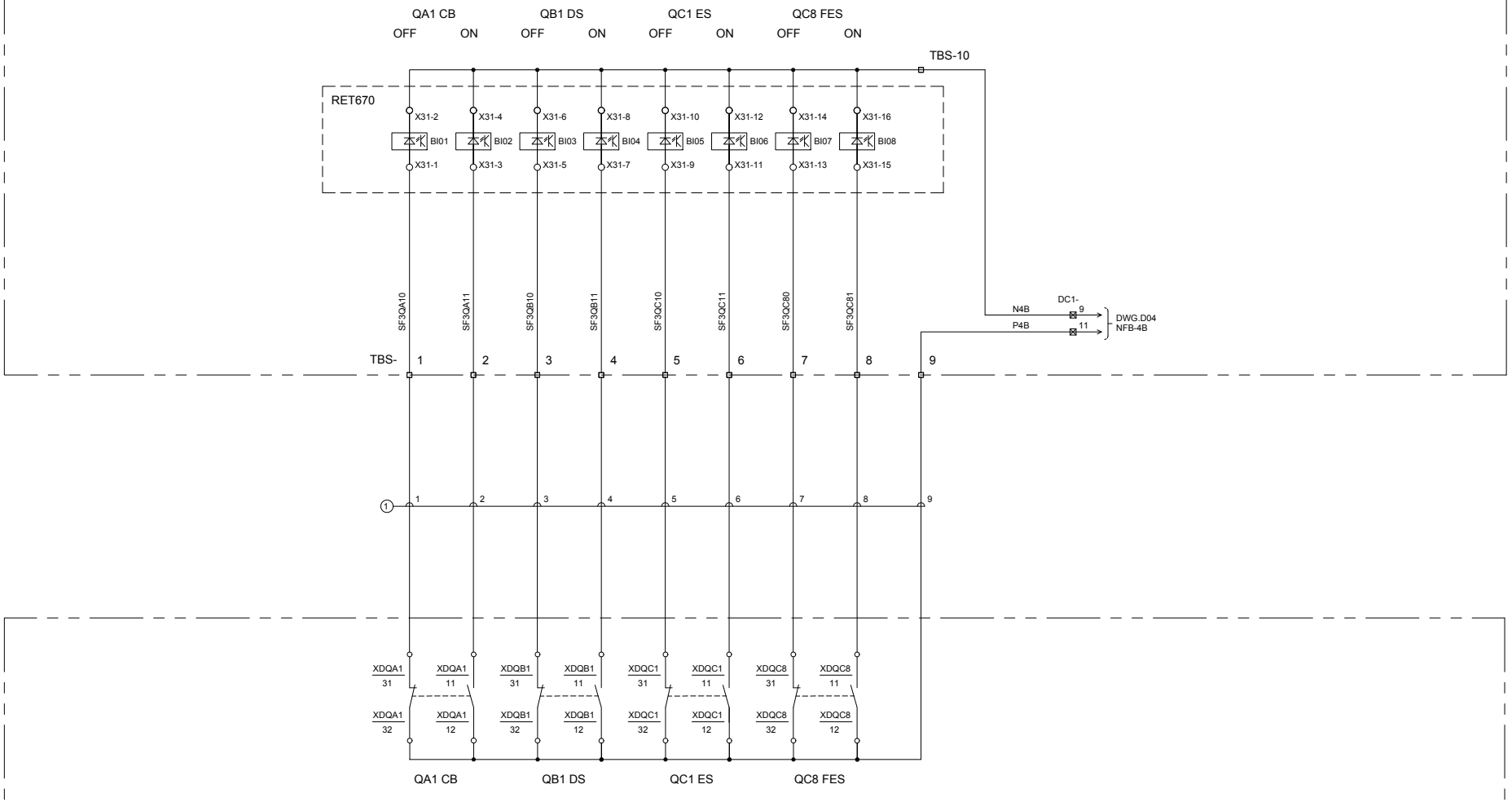


RCP IN01/GIS Q03 (TPC)

For Approval	2021-09-08	C	Project VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title RCP IN01 PROTECTION RELAY & 43 STATUS FOR RTU	Doc. des.	DWG. NO. VENA-K03C
For Approval	2021-09-06	B		Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale / Lang.
For Approval	2021-08-17	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.	Sheet 1
Issued for	Date	Rev.	Derived fm / Replaces					Cont. ～

RCP F03/GIS Q04 (MTR-3)

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



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

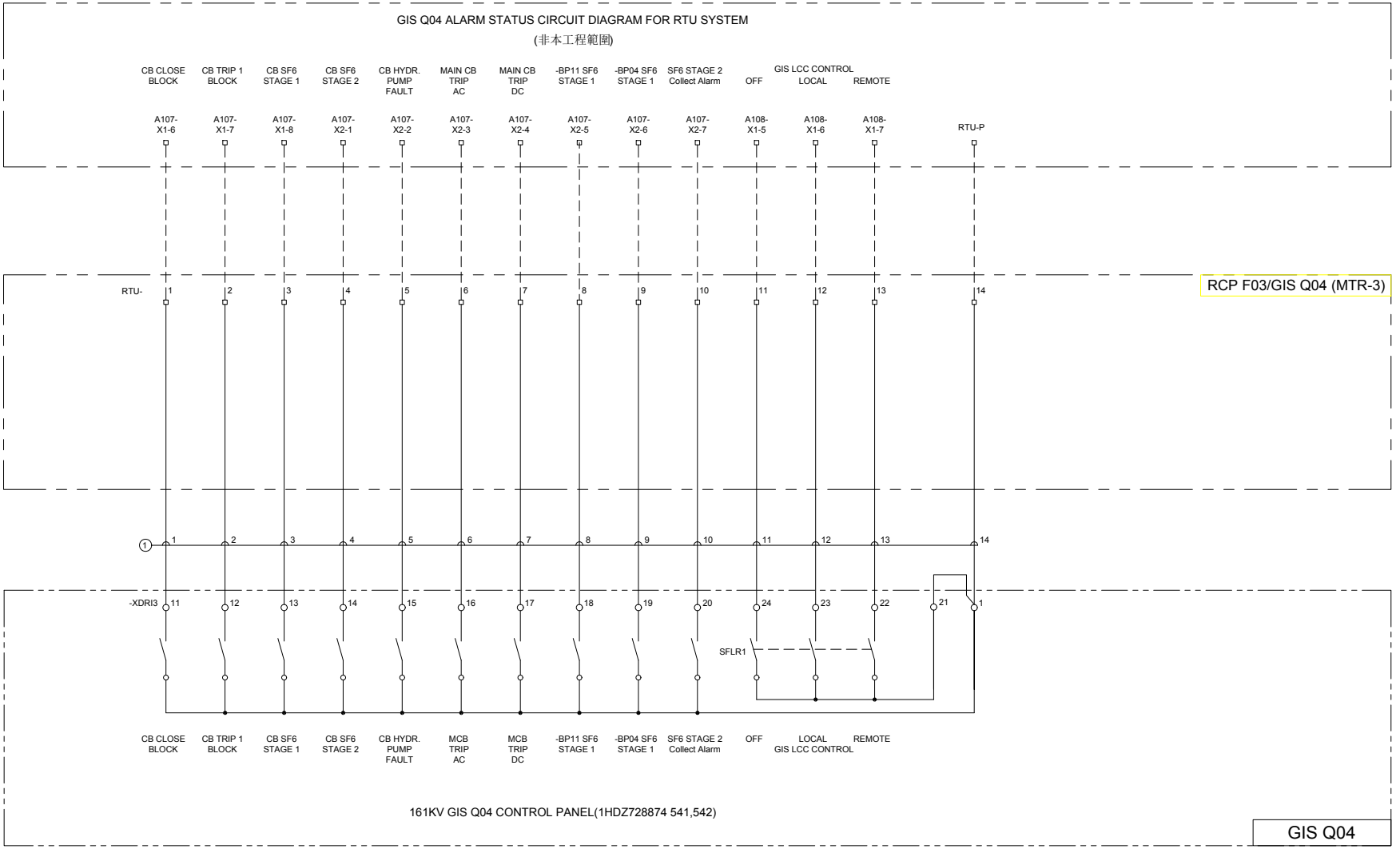
GIS-Q04

GIS Q04 LCC	RCP	2.0mm² X12/C	K04AQ04RCP-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 Q04 CB & DS & ES ON-OFF STATUS FOR SCADA	Doc. des. / DWG. NO. VENA-K04A
For Approval	2021-09-08	C			Checked by Jeff Lu	Date 2021-06-18		Resp. dept. / Scale / Lang.
For Approval	2021-09-06	B			Prepared by Chuan Hua	Date 2021-06-18	台灣日立電網股份有限公司	Doc. No. / Sheet 1
For Approval	2021-08-17	A	Customer 韋能台西					Cont. ～
Issued for	Date	Rev.	Derived fm	Replaces				

GIS Q04 ALARM STATUS CIRCUIT DIAGRAM FOR RTU SYSTEM

(非本工程範圍)



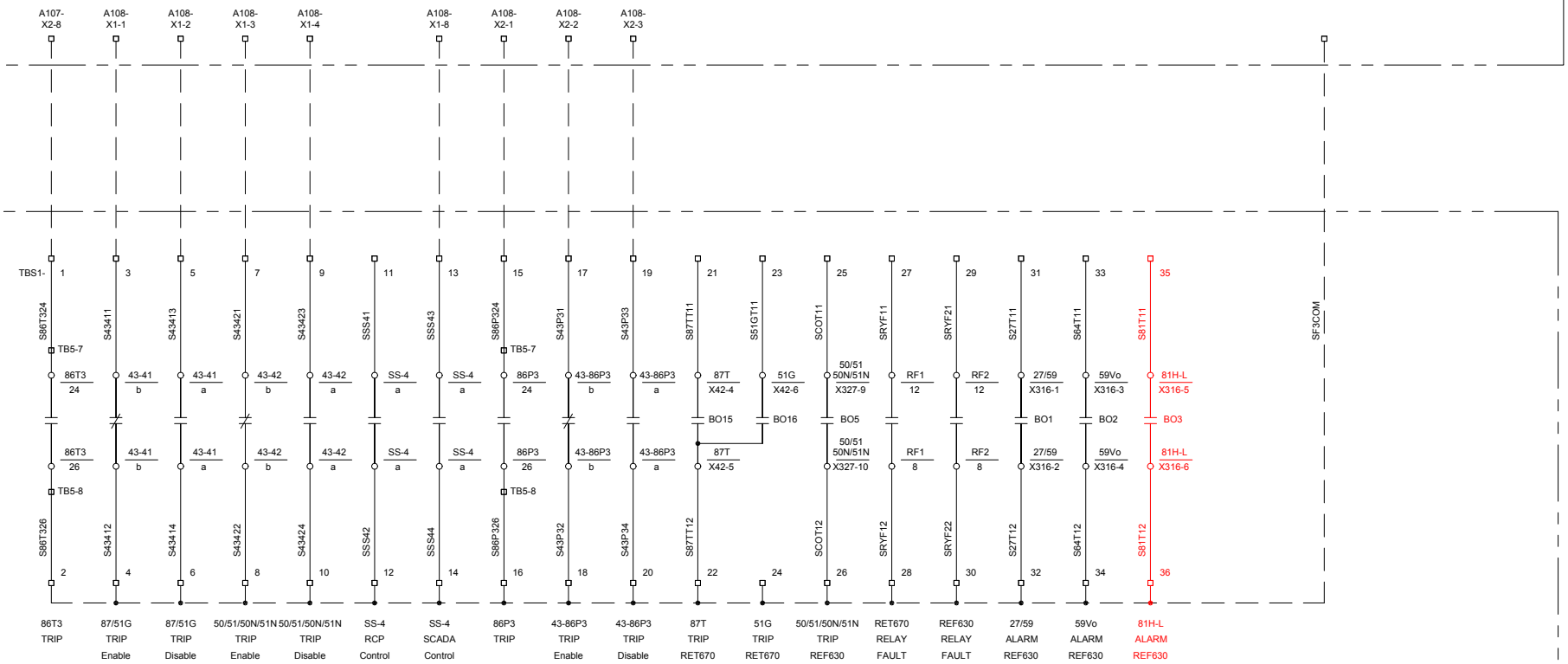
161KV GIS Q04 CONTROL PANEL(1HDZ728874 541,542)

GIS Q04

GIS Q04 LCC	RCP	2.0mm² X16/C	K04BQ04RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

For Approval	2021-09-08	C	Project VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title GIS Q04 ALARM STATUS FOR RTU	Doc. des. / DWG. NO. VENA-K04B
For Approval	2021-09-06	B		Checked by Jeff Lu	Date 2021-06-18		Resp. dept. / Scale / Lang.
For Approval	2021-08-17	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. / Sheet 1 / Cont. ～
Issued for	Date	Rev.	Derived fm / Replaces				

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

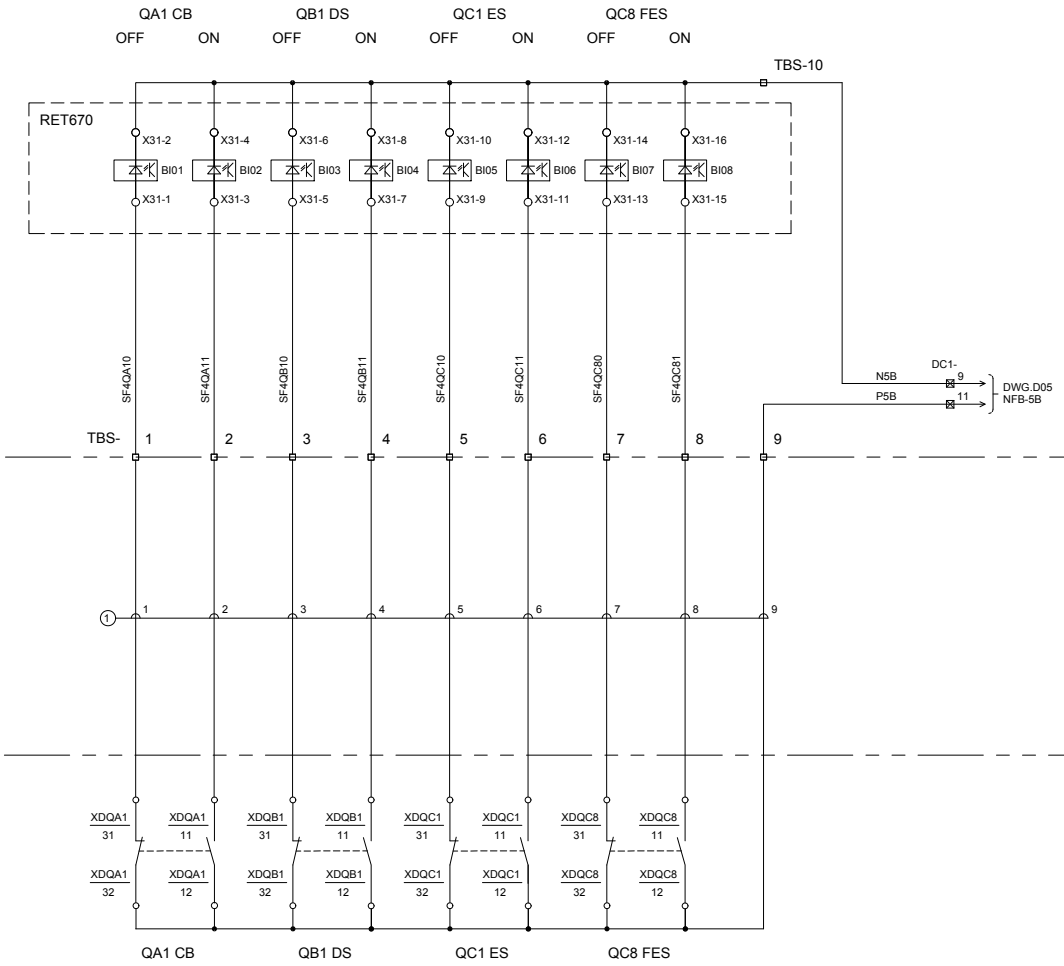


RCP F03/GIS Q04 (MTR-3)

			Project VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title RCP F03 PROTECTION RELAY & 43 STATUS FOR RTU	Doc. des.	DWG. NO. VENA-K04C	
For Approval	2021-09-08	C		Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale	Lang.
For Approval	2021-09-06	B		Prepared by Chuan Hua	Date 2021-06-18	台灣日立電網股份有限公司	Doc. No.		Sheet 1
For Approval	2021-08-17	A	Customer 韋能台西						Cont. ～
Issued for	Date	Rev.	Derived fm / Replaces						

RCP F04/GIS Q05 (MTR-4)

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



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

GIS-Q05

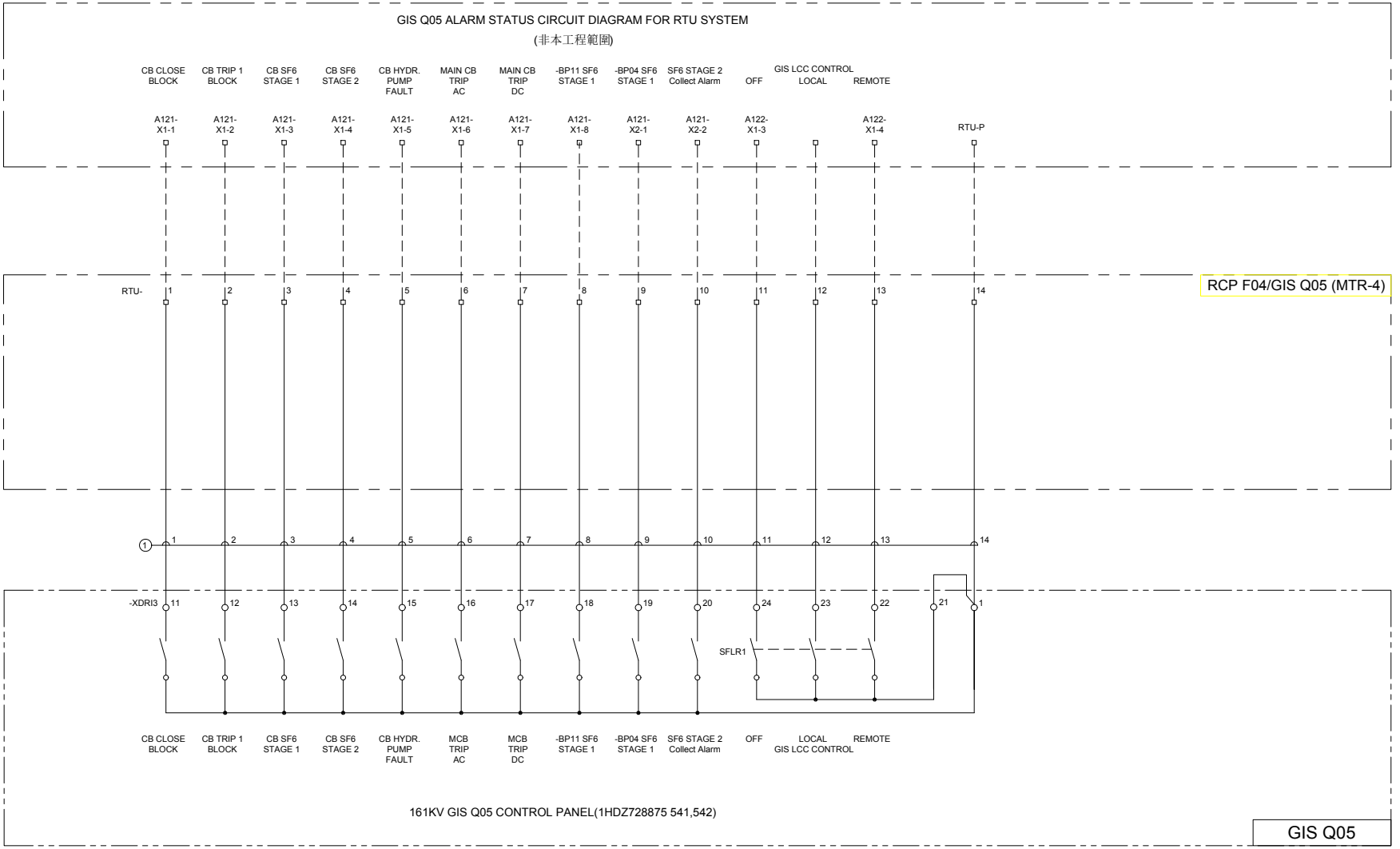
GIS Q05 LCC	RCP	2.0mm² X12/C	K05AQ05RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

			Project	VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title GIS Q05 CB & DS & ES ON-OFF STATUS FOR SCADA
For Approval	2021-09-08	C			Checked by Jeff Lu	Date 2021-06-18	
For Approval	2021-09-06	B			Prepared by Chuan Hua	Date 2021-06-18	台灣日立電網股份有限公司
For Approval	2021-08-17	A	Customer 韋能台西				
Issued for	Date	Rev.	Derived fm	Replaces			

Doc. des.	DWG. NO. VENA-K05A		
Resp. dept.	Scale	Lang.	
Doc. No.		Sheet 1	
		Cont. ～	

GIS Q05 ALARM STATUS CIRCUIT DIAGRAM FOR RTU SYSTEM

(非本工程範圍)



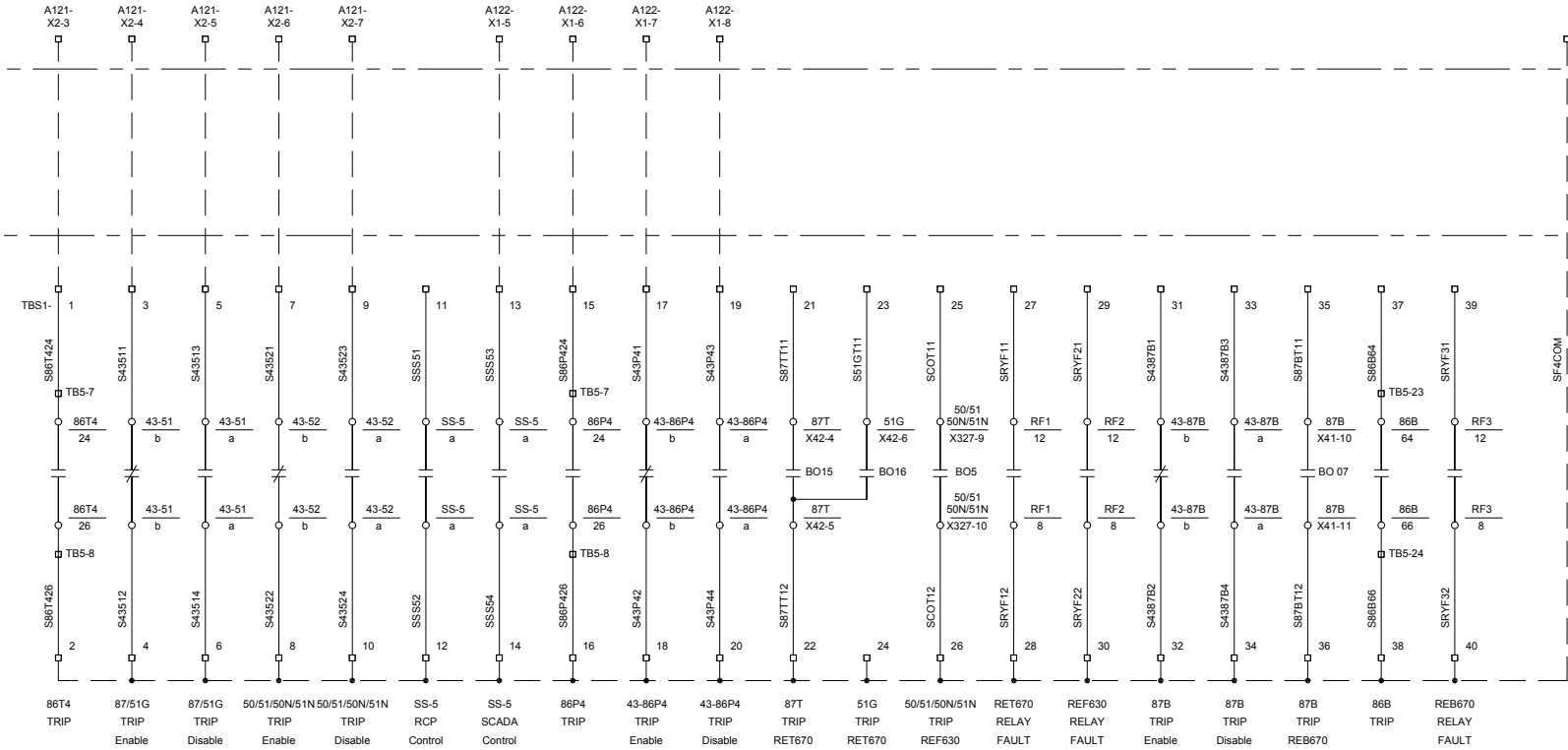
161KV GIS Q05 CONTROL PANEL(1HDZ728875 541,542)

GIS Q05

GIS Q05 LCC	RCP	2.0mm² X16/C	K05BQ05RCP-1	①	SHIELD
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

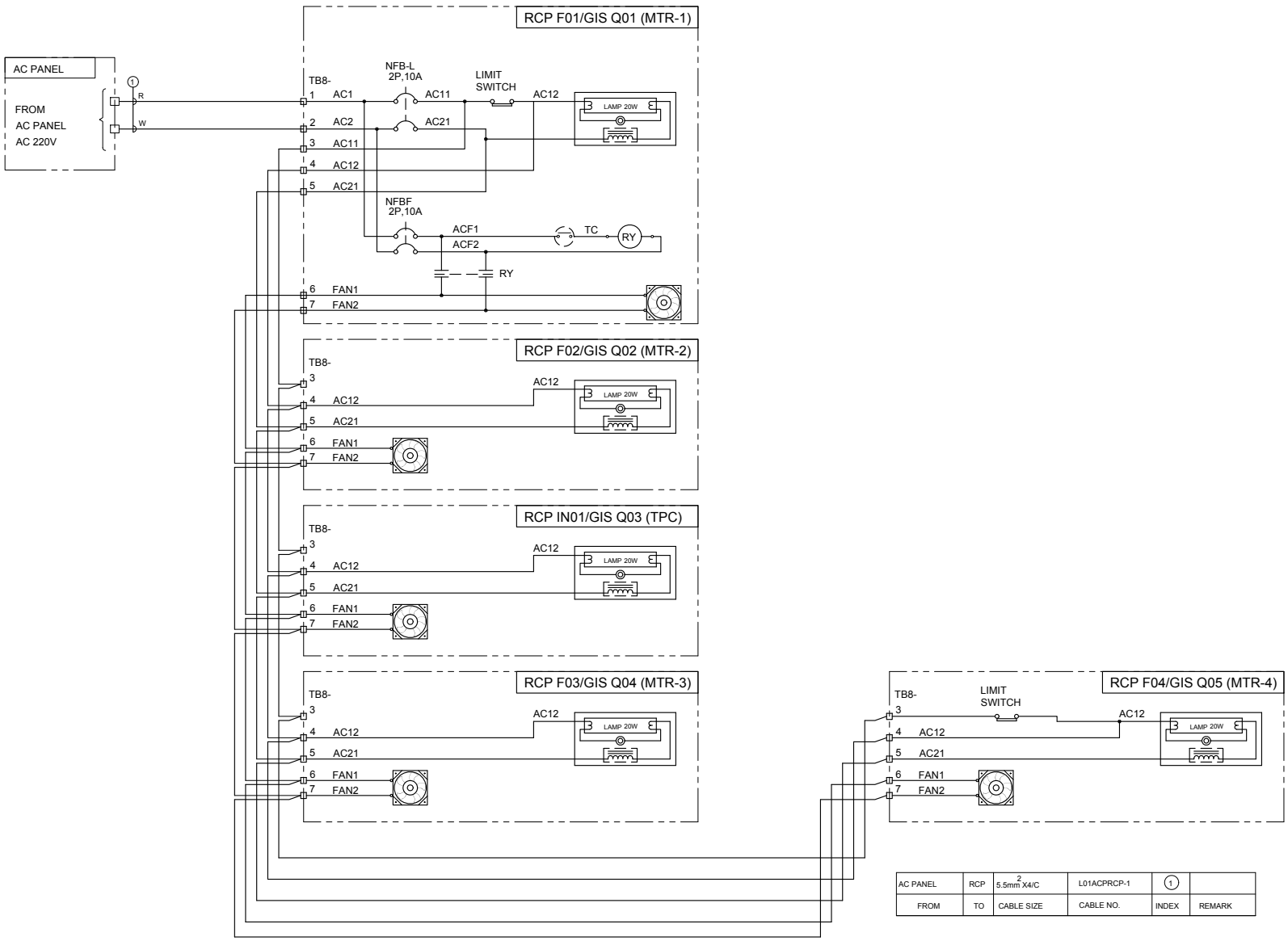
For Approval	2021-09-08	C	Project VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title GIS Q05 ALARM STATUS FOR RTU	Doc. des. / DWG. NO. VENA-K05B
For Approval	2021-09-06	B		Checked by Jeff Lu	Date 2021-06-18		Resp. dept. / Scale / Lang.
For Approval	2021-08-17	A	Customer 韋能台西	Prepared by Chuan Hua	Date 2021-06-18	台灣日立電網股份有限公司	Doc. No. / Sheet 1 / Cont. ～
Issued for	Date	Rev.	Derived fm / Replaces				

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 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title RCP F04 PROTECTION RELAY & 43 STATUS FOR RTU	Doc. des.	DWG. NO. VENA-K05C	
For Approval	2021-09-08	C		Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale	Lang.
For Approval	2021-09-06	B		Prepared by Chuan Hua	Date 2021-06-18	台灣日立電網股份有限公司	Doc. No.		Sheet 1
For Approval	2021-08-17	A	Customer 韋能台西						Cont. ～
Issued for	Date	Rev.	Derived fm / Replaces						



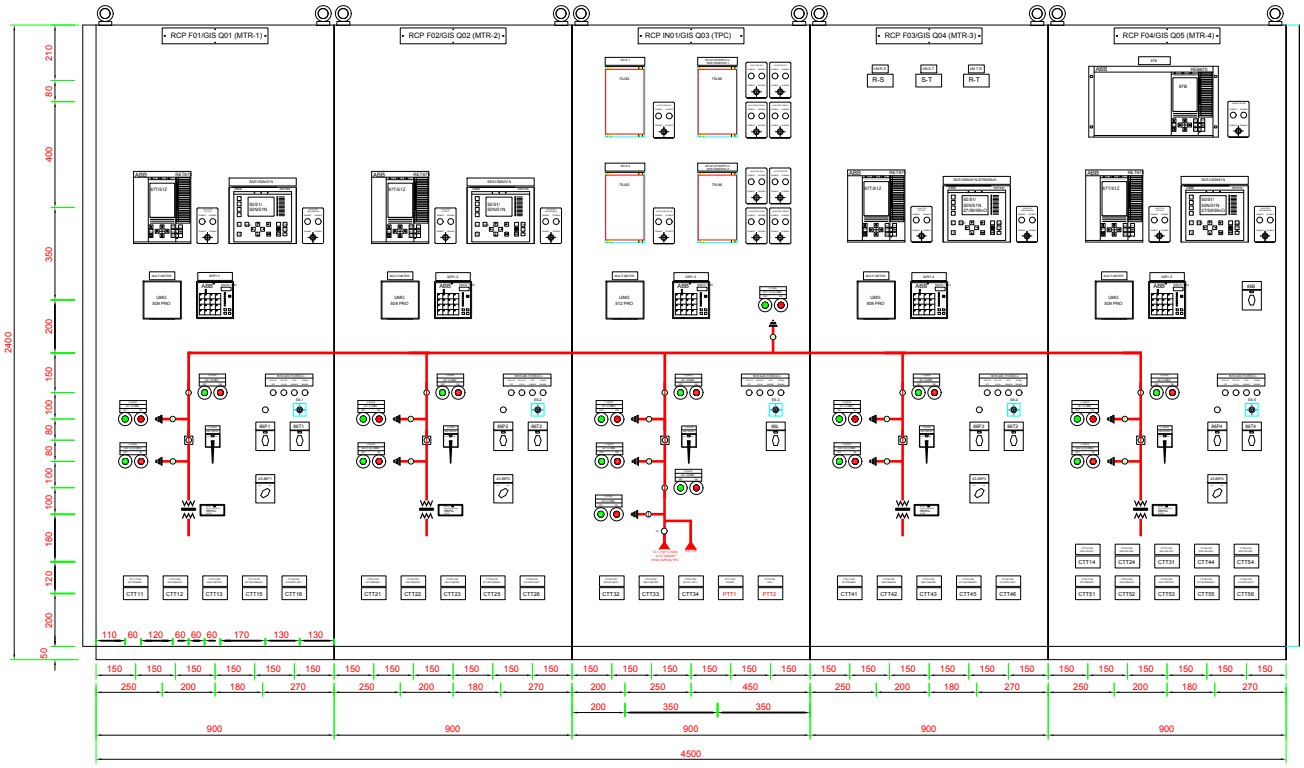
AC PANEL	RCP	5.5mm² X4/C	L01ACPRCP-1	①	
FROM	TO	CABLE SIZE	CABLE NO.	INDEX	REMARK

For Approval	2021-09-08	C	Project VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title LIGHTING WIRING DIAGRAM	Doc. des. / DWG. NO. VENA-L01
For Approval	2021-09-06	B		Checked by Jeff Lu	Date 2021-06-18		Resp. dept. / Scale / Lang.
For Approval	2021-08-17	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. / Sheet 1 / Cont. ～
Issued for	Date	Rev.	Derived fm / Replaces				

RELAY CONTROL PANEL SPECIFICATION

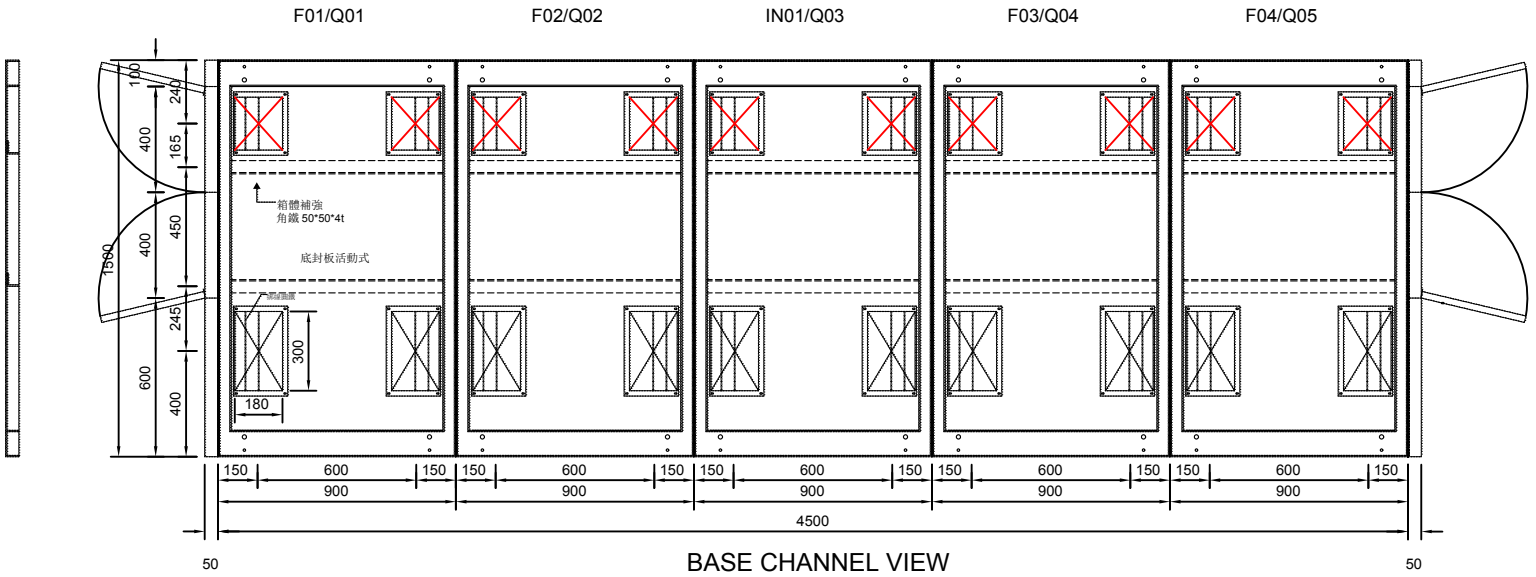
ITEM	EQUIPMENTS	DESCRIPTION	BRAND	TYPE	RCP F01	RCP F02	RCP IN01	RCP F03	RCP F04							SUB TOTAL
1	87L	LINE DIFFERENTIAL RELAY	Siemens	7SL86			2									2
2	67/67N	DIRECTIONAL OVER CURRENT RELAY														
3	50+2		Siemens	7SJ82			2									2
4	87B	BUS DIFFERENTIAL RELAY	ABB	REB670 19"*1					1							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 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title MATERIAL LIST	Doc. des.	DWG. NO. VENA-M01
For Approval	2021-09-08	C						
For Approval	2021-09-06	B		Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale / Lang.
For Approval	2021-08-17	A	Customer 韋能台西					
Issued for	Date	Rev.	Derived fm / Replaces	Prepared by Chuan Hua	Date 2021-06-18	台灣日立電網股份有限公司	Doc. No.	Sheet 1 / Cont. ～

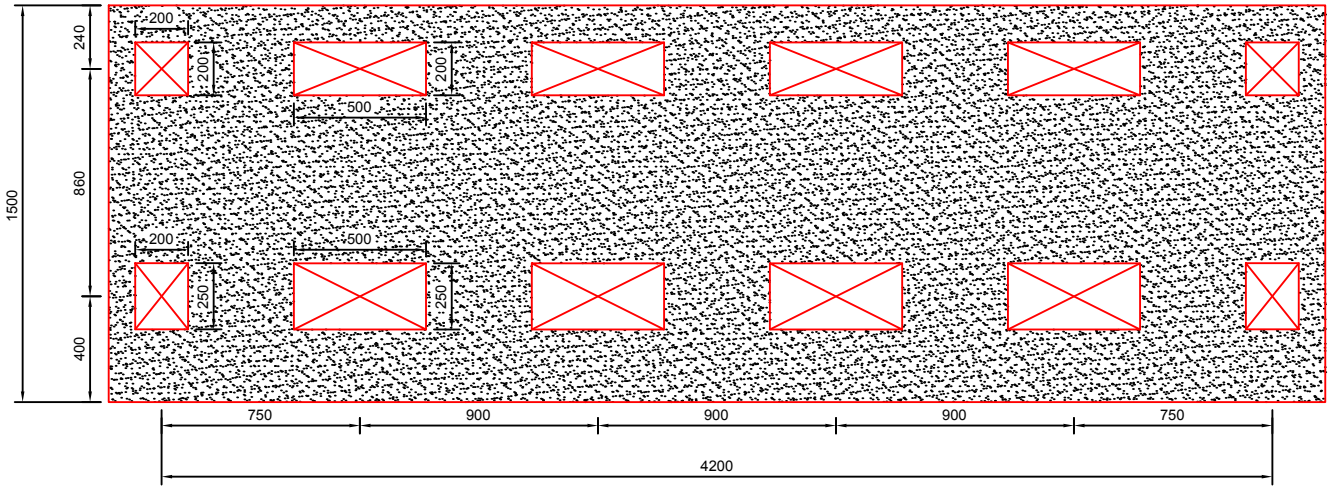


FRONT VIEW

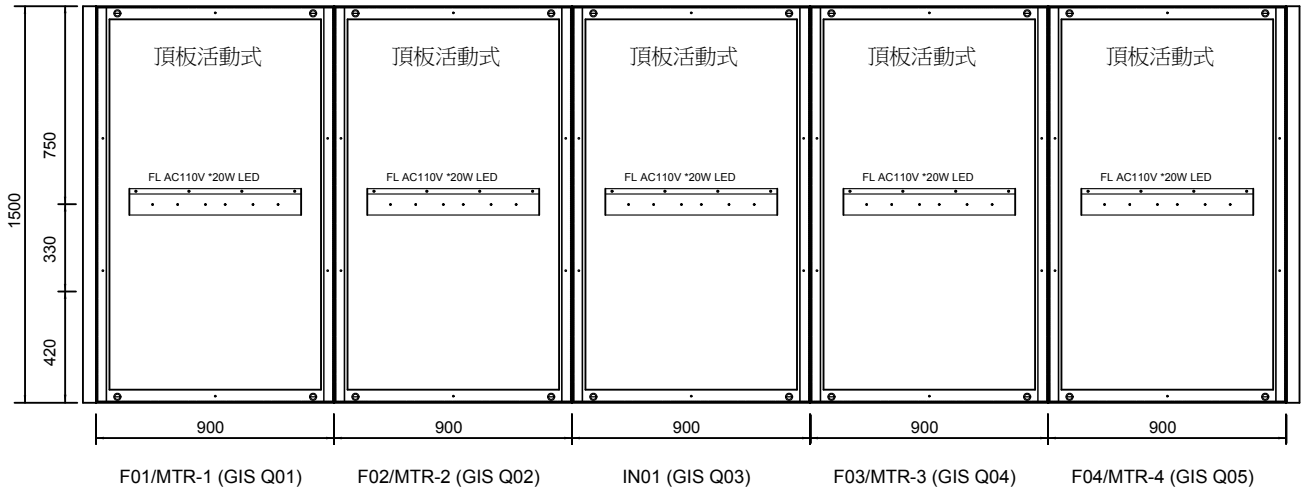
			Project VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title 161KV CONTROL PANEL FRONT VIEW	Doc. des.	DWG. NO. VENA- P01
For Approval	2021-09-08	C		Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale / Lang.
For Approval	2021-08-17	B		Prepared by Chuan Hua	Date 2021-06-18	台灣日立電網股份有限公司	Doc. No.	Sheet 1
For Approval	2021-08-17	A	Customer 韋能台西					Cont. ～
Issued for	Date	Rev.	Derived fm / Replaces					



BASE CHANNEL VIEW

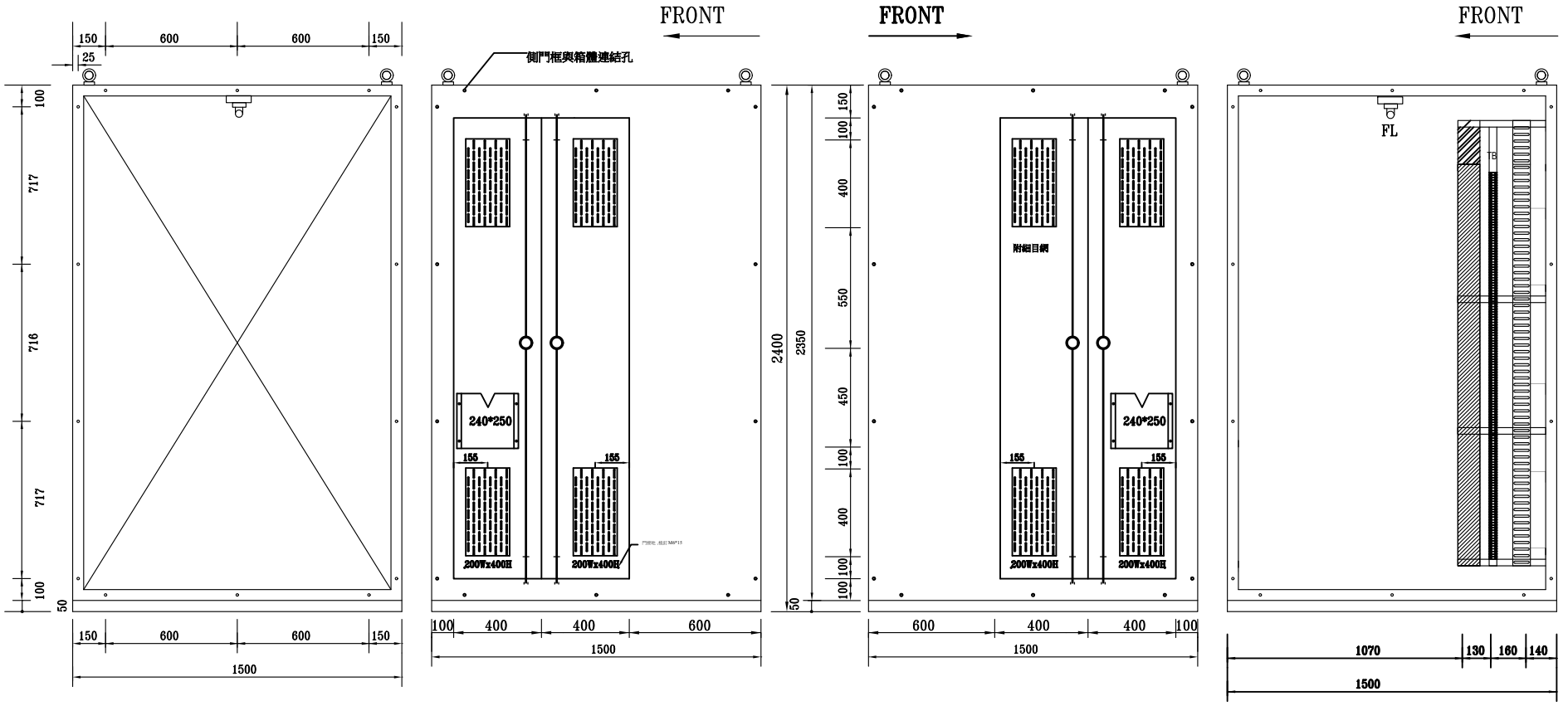


			Project VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title 161KV CONTROL PANEL BASE CHANNEL VIEW	Doc. des.	DWG. NO. VENA- P02
For Approval	2021-09-08	C						
For Approval	2021-09-06	B		Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale / Lang.
For Approval	2021-08-17	A	Customer 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.	Sheet 1
Issued for	Date	Rev.	Derived fm / Replaces					Cont. ～



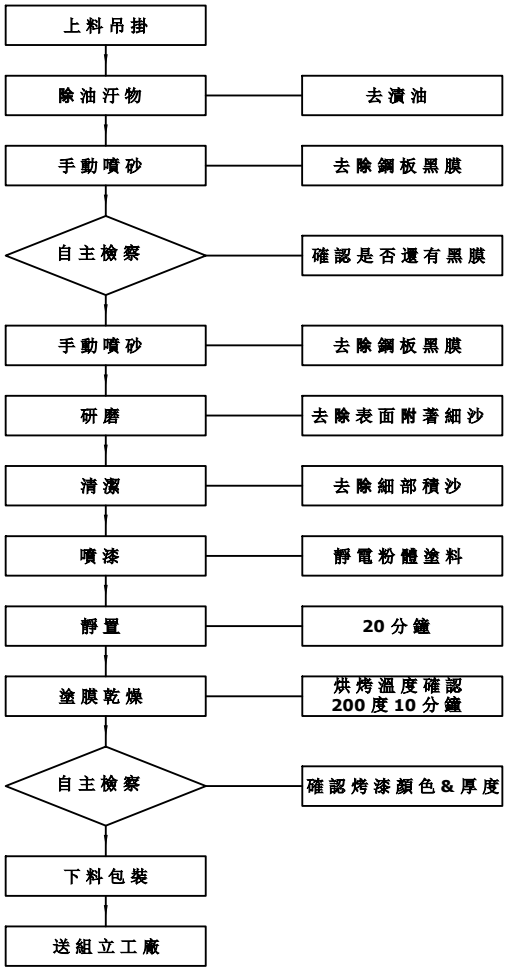
TOP CHANNEL VIEW

			Project VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title 161KV CONTROL PANEL TOP CHANNEL VIEW	Doc. des.	DWG. NO. VENA- P03
For Approval	2021-09-08	C		Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale / Lang.
For Approval	2021-08-17	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.	Sheet 1
Issued for	Date	Rev.	Derived fm / Replaces					Cont. ～



			Project	VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title **161KV CONRTOL PANEL SIDE VIEW**	Doc. des.	DWG. NO. VENA- P04
For Approval	2021-09-08	C			Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale / Lang.
For Approval	2021-09-06	B			Prepared by Chuan Hua	Date 2021-06-18	台灣日立電網股份有限公司	Doc. No.	Sheet 1
For Approval	2021-08-17	A	Customer 韋能台西						Cont. ～
Issued for	Date	Rev.	Derived fm	Replaces					

配電盤塗裝流程



			Project	VENA ENERGY	Approved by Jeff Lu	Date 2021-06-18	Title	Doc. des.	DWG. NO. VENA-Q01
For Approval	2021-09-08	C		161KV GIS S/S PROJECT			電驛及控制盤製裝規範(一)		
For Approval	2021-09-06	B			Checked by Jeff Lu	Date 2021-06-18		Resp. dept.	Scale / Lang.
For Approval	2021-08-17	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.	Sheet 1
Issued for	Date	Rev.	Derived fm	Replaces					Cont. ～

線徑及顏色(僅盤內部份)			
種　類		線 徑	線 色
		標 準	標 準
CT二次側回路		10AWG	黑 色
PT二次側回路		12AWG	紅 色
交流控制回路		14AWG	黃 色
直流控制回路		14AWG	藍 色
接地線	CT PT二次側	10AWG	綠 色
	儀表設備	14AWG	綠 色

☒ 模擬母線顏色	
電 壓	顏 色
345KV	橙 色
161KV	紅 色
69KV	藍 色
34.5KV	棕 色
22KV	粉紅色
11KV	白 色
接 地	黃底黑線條

相序/極性排列			
種 類		標 準	其 他
交流	由左至右	R-S-T-N	
	由上至下	R-S-T-N	
	由前至後	R-S-T-N	
直流	由左至右	P-N	
	由上至下	P-N	
	由前至後	P-N	

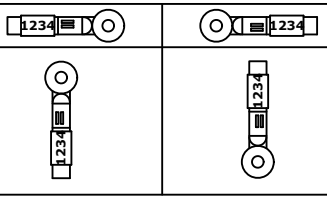
終 端 處 理 方 式	
CT PT二次側回路	絕緣端子
控制線路	絕緣端子

電線種類	PVC絞線

控制及操作電壓	
斷路器控制電路	☒ DC 125V
加熱器及日光燈及散熱風扇	☒ AC 220V

端 子 型 式		
CT二次側回路	☒	☒
PT二次側回路	☒	☒
控制回路	☒	☒

線號排列方向



☒ 記號表示被選擇使用項目

			Project	VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title 電驛及控制盤製裝規範(二)	Doc. des.
For Approval	2021-09-08	C			Checked by Jeff Lu	Date 2021-06-18		Resp. dept.
For Approval	2021-09-06	B	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.
For Approval	2021-08-17	A	Derived fm	Replaces				
Issued for	Date	Rev.						

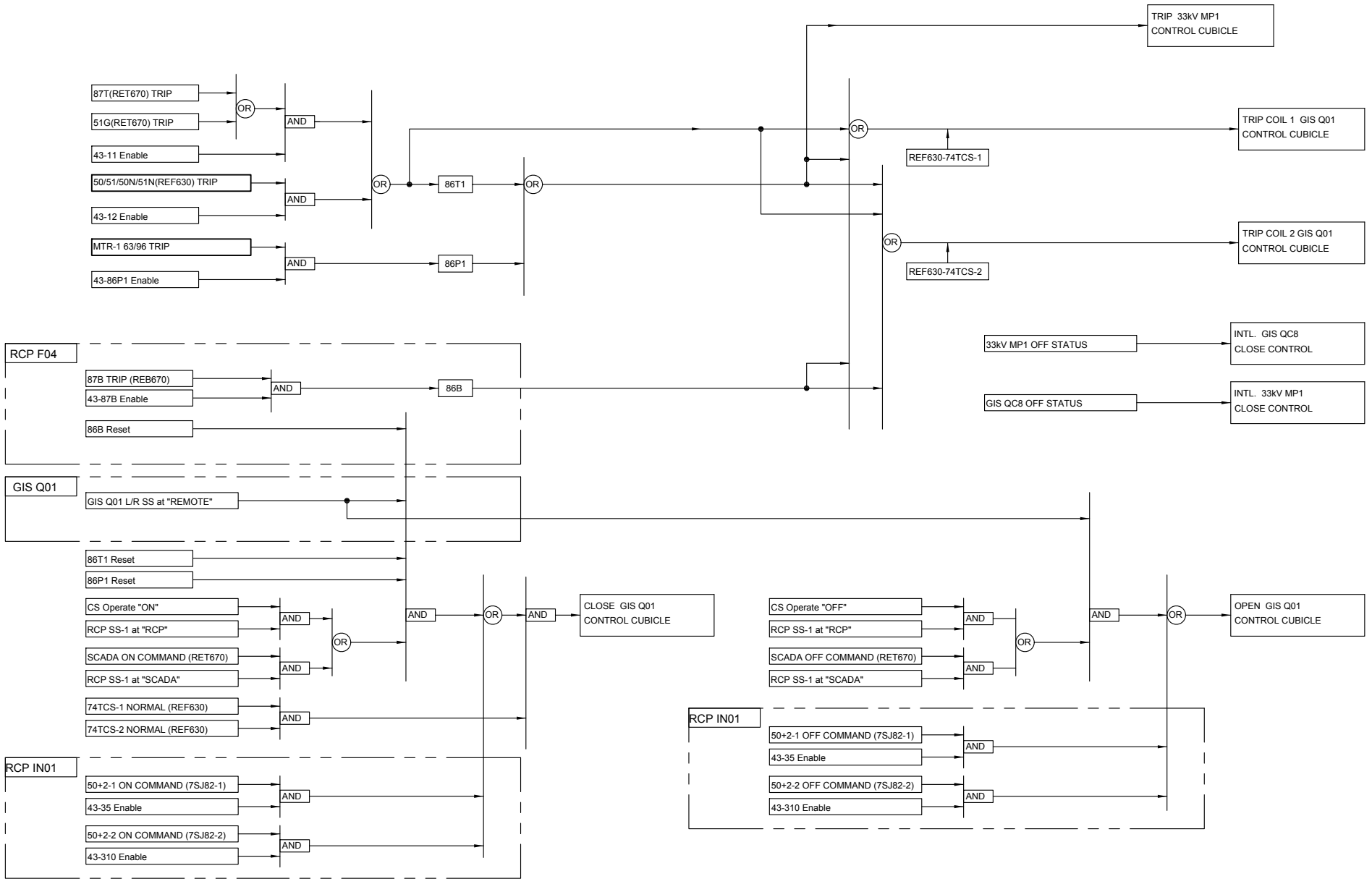
DWG. NO. VENA-Q02	
Scale	Lang.
	Sheet 1
	Cont. ～

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	☐	台灣油漆公會 NO.
相對濕度	最高90%		☒	RAL7035 垂紋漆 國邦790-49780H
高度	海拔1000公尺以下	內部顏色	☐	台灣油漆公會 NO.
安裝地點	☒ 屋內 ☐ 屋外		☒	RAL7035 垂紋漆 國邦790-49780H
電纜進出方式	☒ 底部 ☐ 頂部	塗料材質	☒	環氧/聚脂/填充料/色料/添加劑
盤 體 構 造		盤 體 材 質		
前面	☐ 門 ☒ 板式	前板/後門板	☒	鋼板 (SPHC) 3.2mm
後面	☒ 門 ☐ 背板	側板	☒	鋼板 (SPHC) 2.3mm
側面	☐ 側板 ☐ 側門 ☒ 板式	底板	☒	鋼板 (SPHC) 2.3mm
底部	☒ 底板 ☐ 放空	頂板	☒	鋼板 (SPHC) 2.3mm
頂部	☒ 頂板 ☐ 屋頂	主骨架	☒	角鋼 (ss41) L50*50*5t
保護構造	☒ 一般型 ☐ 防塵型 ☐防滴型	基礎座	☒	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	☒	壓克力，白底黑字
		盤 體 重 量		
		單一盤體重量		約500kg

☒ 記號表示被選擇使用項目

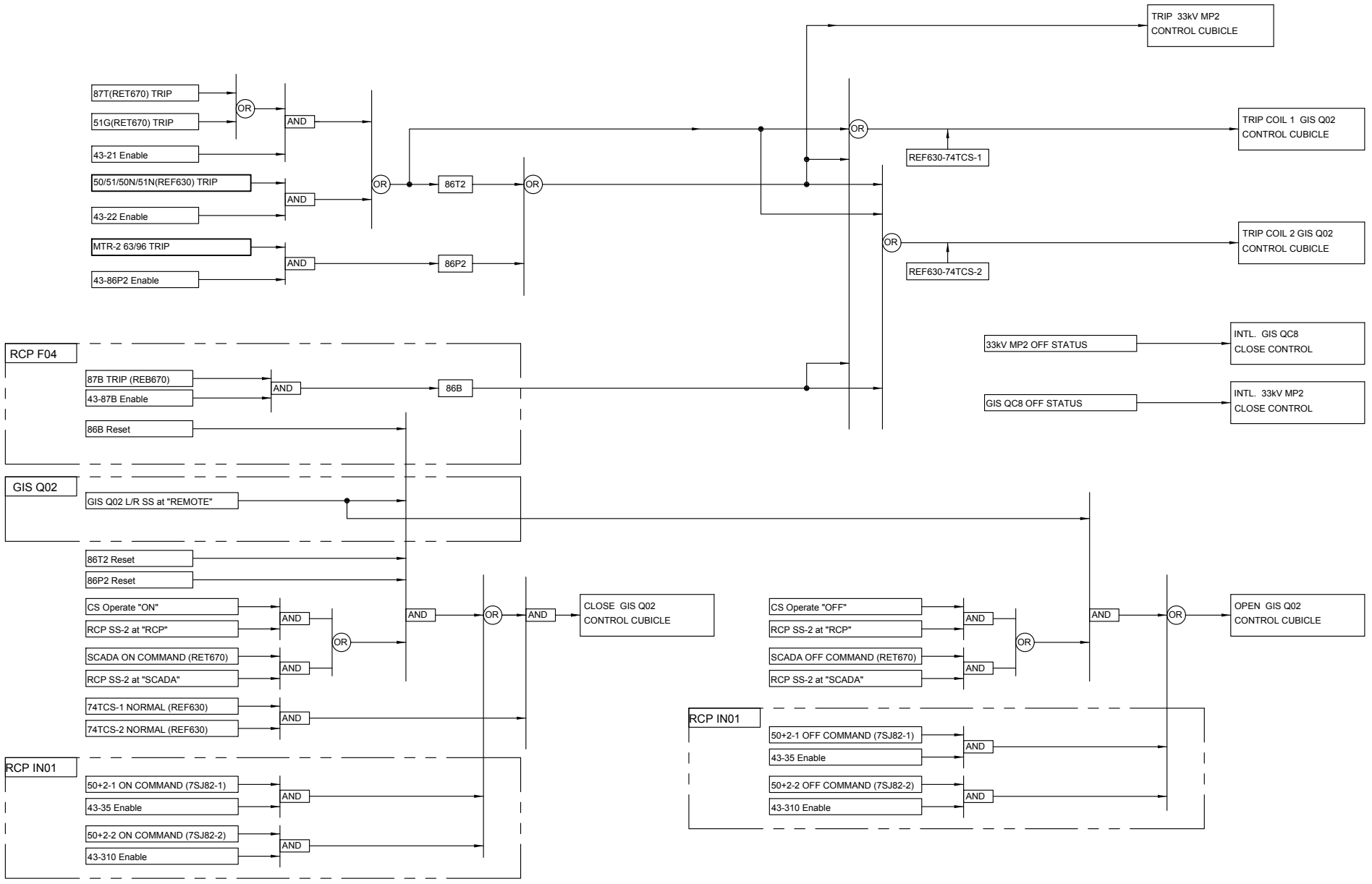
			Project	VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title 電驛及控制盤製裝規範(三)	Doc. des.	DWG. NO. VENA-Q03
For Approval	2021-09-08	C						Resp. dept.	Scale / Lang.
For Approval	2021-09-06	B			Checked by Jeff Lu	Date 2021-06-18			
For Approval	2021-08-17	A	Customer 韋能台西		Prepared by Chuan Hua	Date 2021-06-18	台灣日立電網股份有限公司	Doc. No.	Sheet 1 / Cont. ～
Issued for	Date	Rev.	Derived fm	Replaces					

RCP F01 (Q01Bay) TRIP/CLOSE/OPEN LOGICAL DIAGRAM



			Project	VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title TRIP LOGICAL DIAGRAM FOR F01 FEEDER	Doc. des. / DWG. NO. VENA- X01
For Approval	2021-09-08	C			Checked by Jeff Lu	Date 2021-06-18		Resp. dept. / Scale / Lang.
For Approval	2021-09-06	B			Prepared by Chuan Hua	Date 2021-06-18	台灣日立電網股份有限公司	Doc. No. / Sheet 1
For Approval	2021-08-17	A	Customer 韋能台西					Cont. ～
Issued for	Date	Rev.	Derived fm	Replaces				

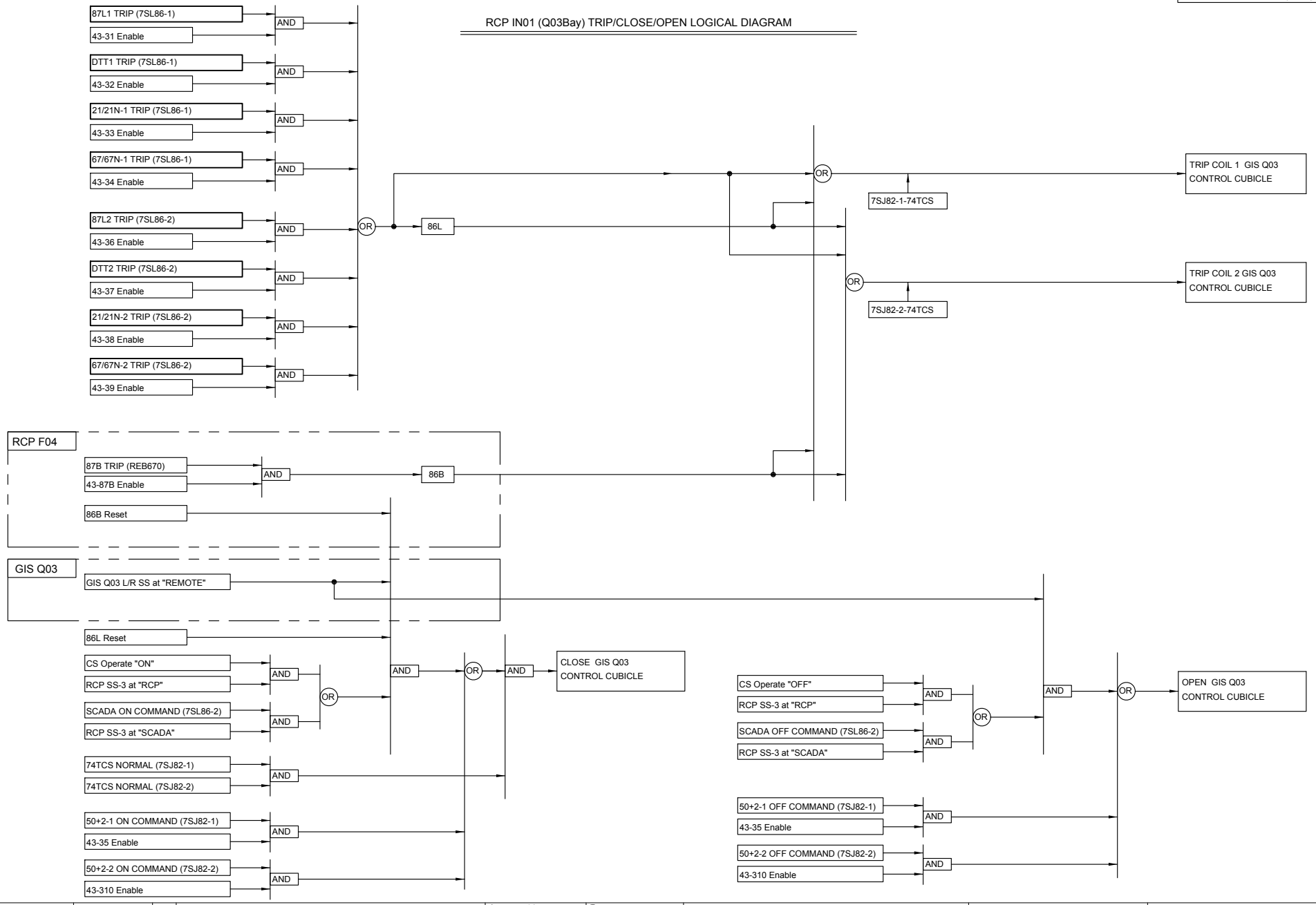
RCP F02 (Q02Bay) TRIP/CLOSE/OPEN LOGICAL DIAGRAM



			Project VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title TRIP LOGICAL DIAGRAM FOR F02 FEEDER	Doc. des. / DWG. NO. VENA- X02
For Approval	2021-09-08	C		Checked by Jeff Lu	Date 2021-06-18		Resp. dept. / Scale / Lang.
For Approval	2021-09-06	B		Prepared by Chuan Hua	Date 2021-06-18	台灣日立電網股份有限公司	Doc. No. / Sheet 1
For Approval	2021-08-17	A	Customer 韋能台西				Cont. ～
Issued for	Date	Rev.	Derived fm / Replaces				

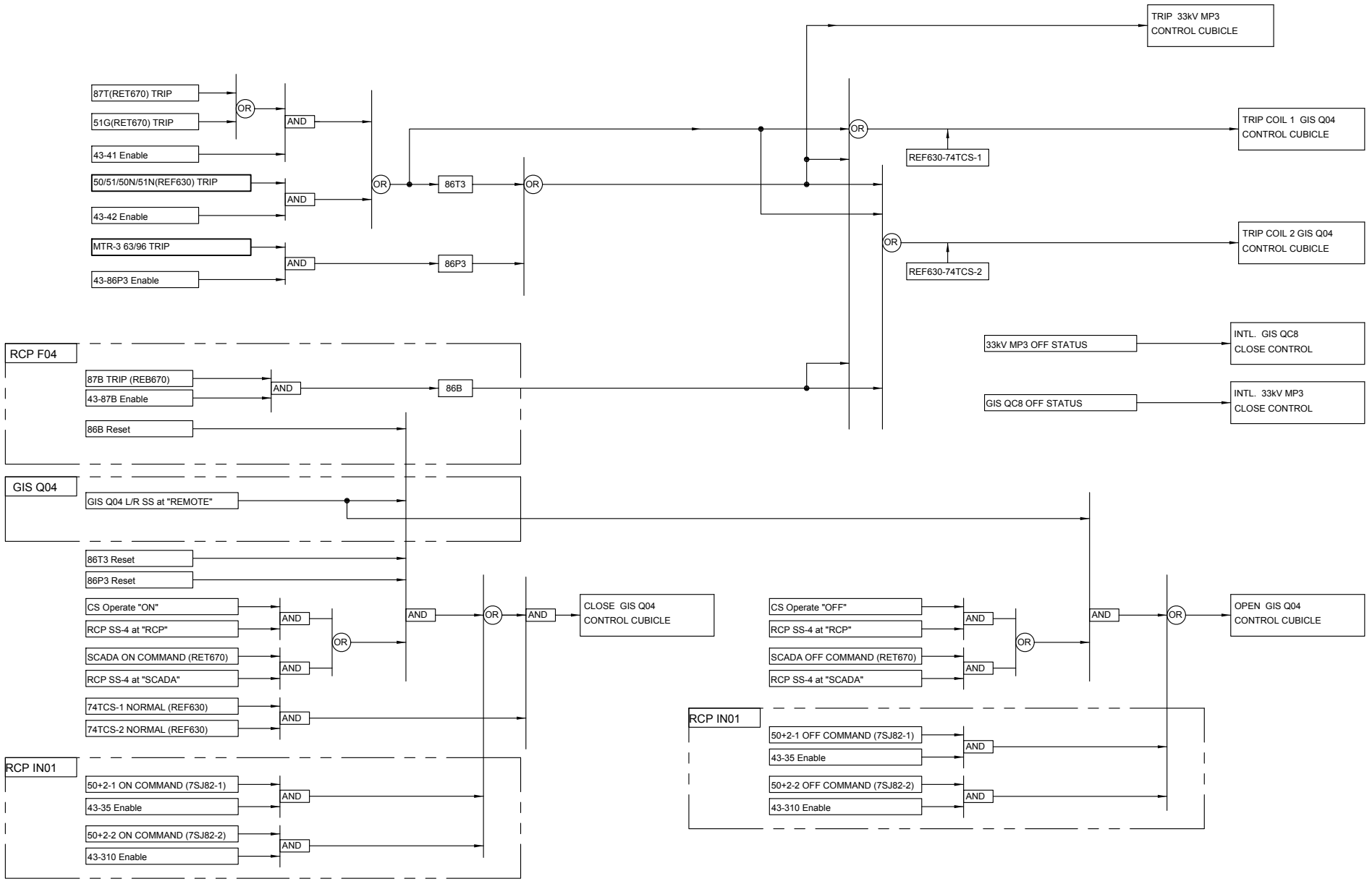
RCP IN01/GIS Q03 (TPC)

RCP IN01 (Q03Bay) TRIP/CLOSE/OPEN LOGICAL DIAGRAM



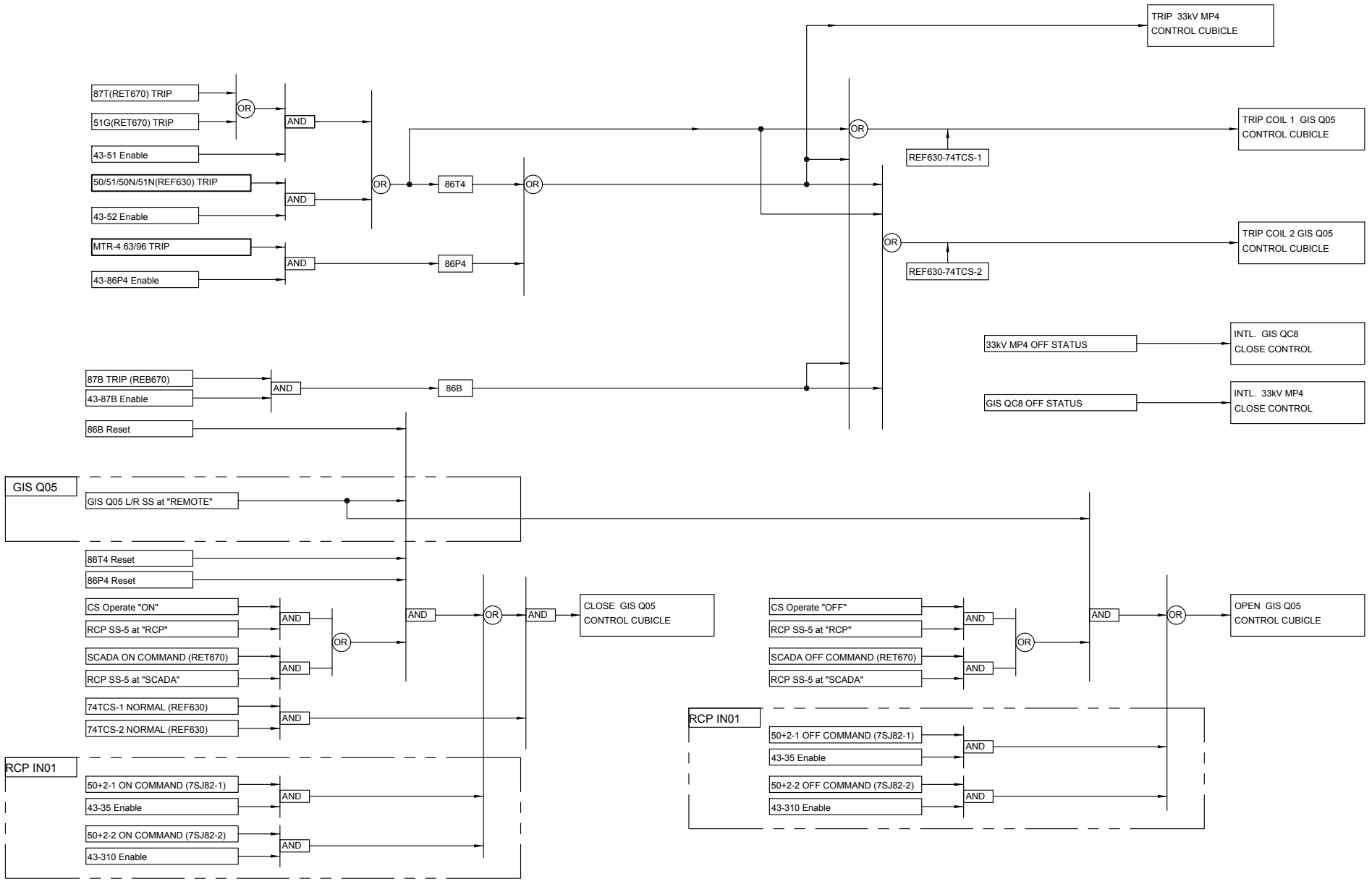
			Project	VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title TRIP LOGICAL DIAGRAM FOR IN01 FEEDER	Doc. des. / DWG. NO. VENA- X03
For Approval	2021-09-08	C			Checked by Jeff Lu	Date 2021-06-18		Resp. dept. / Scale / Lang.
For Approval	2021-09-06	B			Prepared by Chuan Hua	Date 2021-06-18	台灣日立電網股份有限公司	Doc. No. / Sheet 1
For Approval	2021-08-17	A	Customer 韋能台西					Cont. ～
Issued for	Date	Rev.	Derived fm	Replaces				

RCP F03 (Q04Bay) TRIP/CLOSE/OPEN LOGICAL DIAGRAM



			Project VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title TRIP LOGICAL DIAGRAM FOR F03 FEEDER	Doc. des. / DWG. NO. VENA- X04
For Approval	2021-09-08	C		Checked by Jeff Lu	Date 2021-06-18		Resp. dept. / Scale / Lang.
For Approval	2021-09-06	B		Prepared by Chuan Hua	Date 2021-06-18	台灣日立電網股份有限公司	Doc. No. / Sheet 1
For Approval	2021-08-17	A	Customer 韋能台西				Cont. ～
Issued for	Date	Rev.	Derived fm / Replaces				

RCP F04 (Q05Bay) TRIP/CLOSE/OPEN LOGICAL DIAGRAM



			Project VENA ENERGY 161KV GIS S/S PROJECT	Approved by Jeff Lu	Date 2021-06-18	Title TRIP LOGICAL DIAGRAM FOR F04 FEEDER	Doc. des. / DWG. NO. VENA- X05
For Approval	2021-09-08	C		Checked by Jeff Lu	Date 2021-06-18		Resp. dept. / Scale / Lang.
For Approval	2021-09-06	B		Prepared by Chuan Hua	Date 2021-06-18	台灣日立電網股份有限公司	Doc. No. / Sheet 1
For Approval	2021-08-17	A	Customer 韋能台西				Cont. ～
Issued for	Date	Rev.	Derived fm / Replaces				