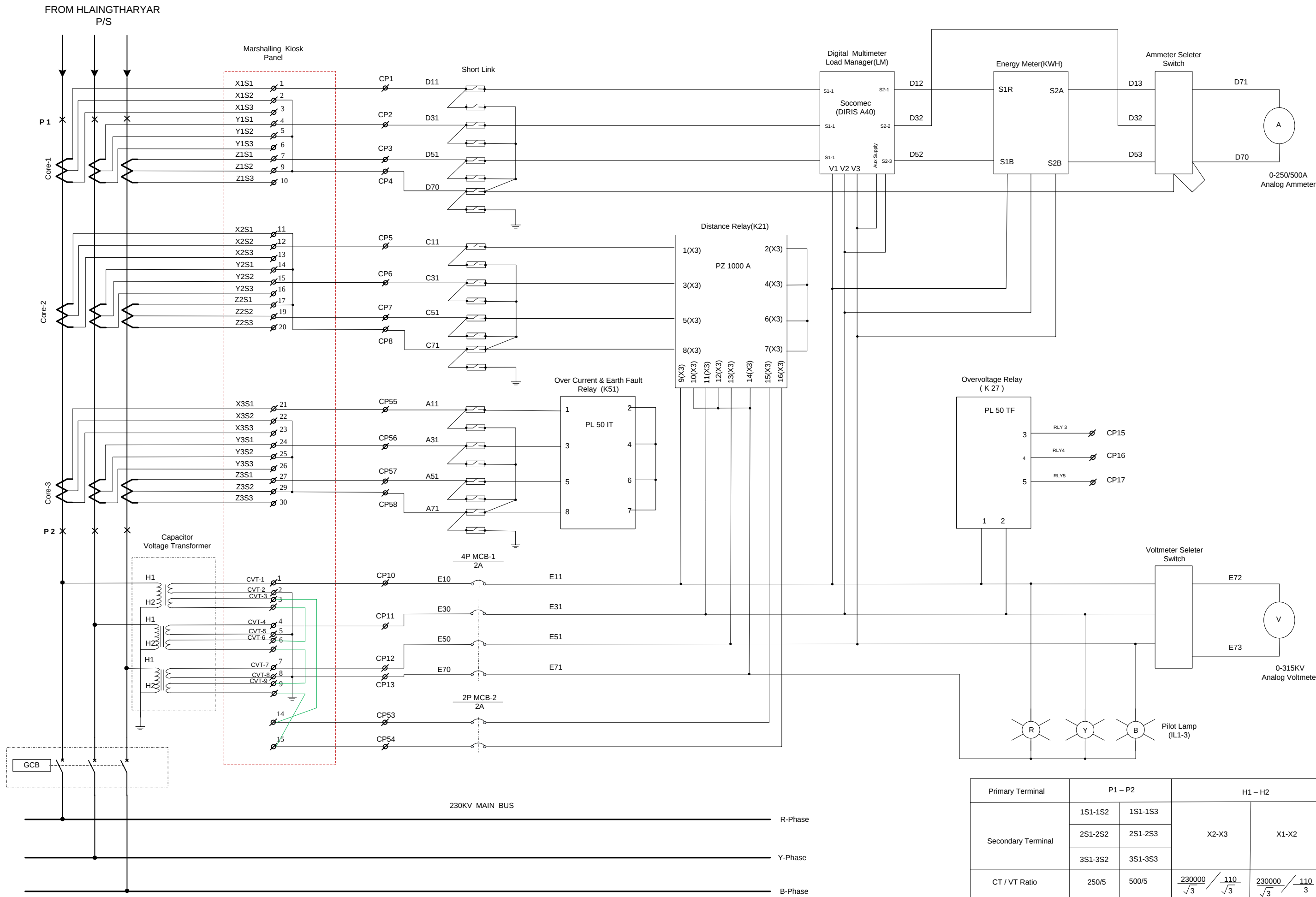
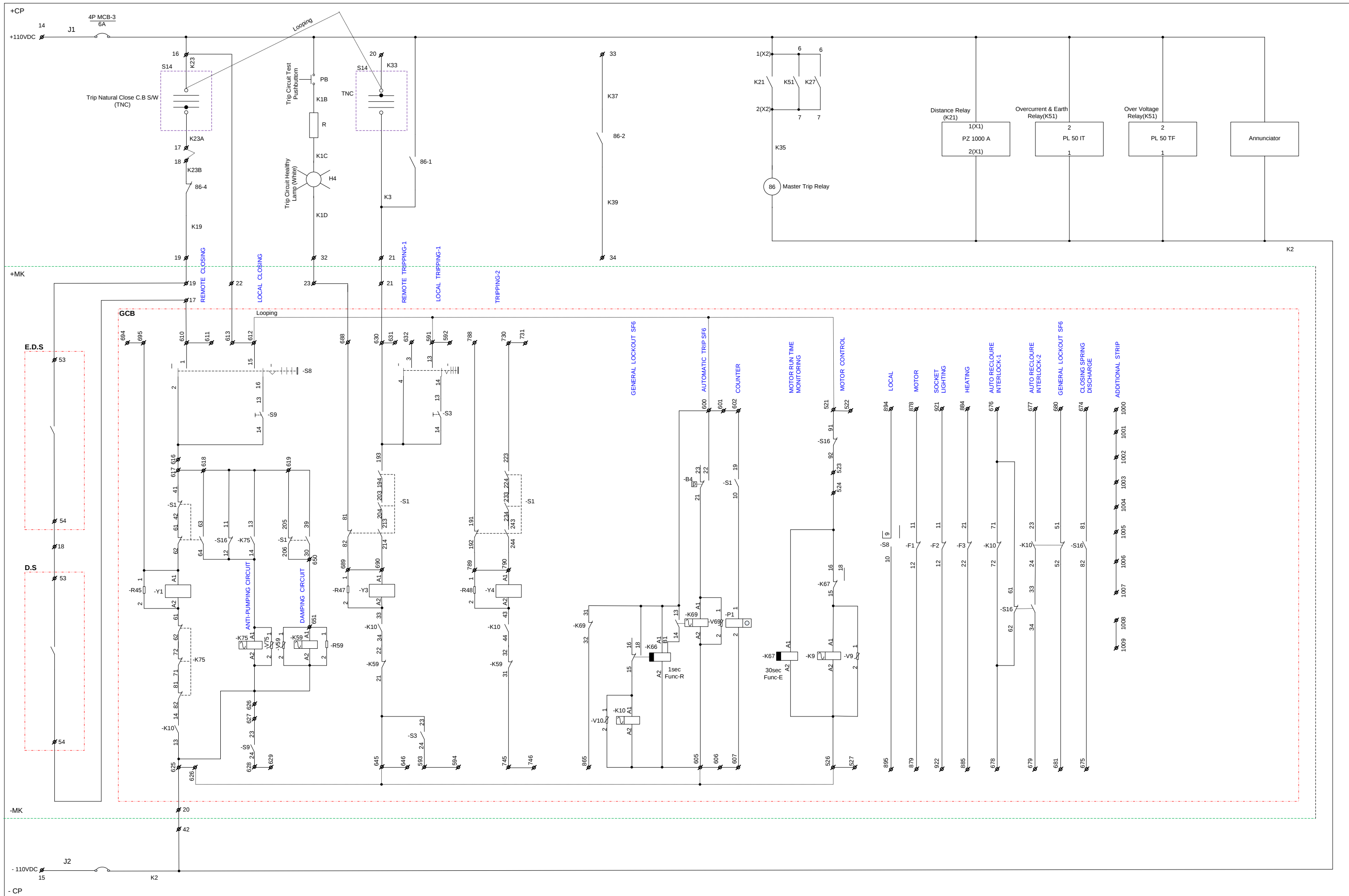
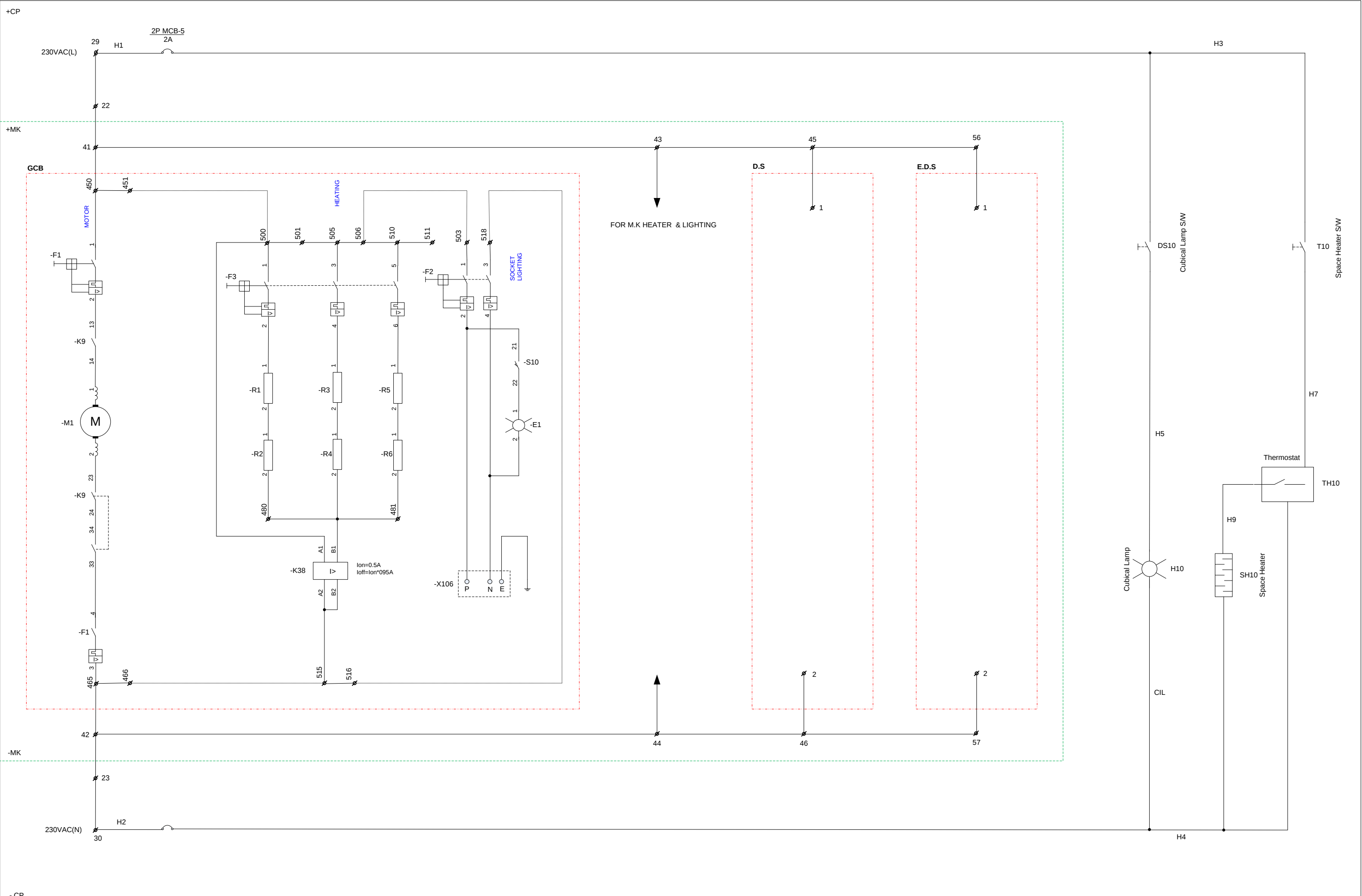




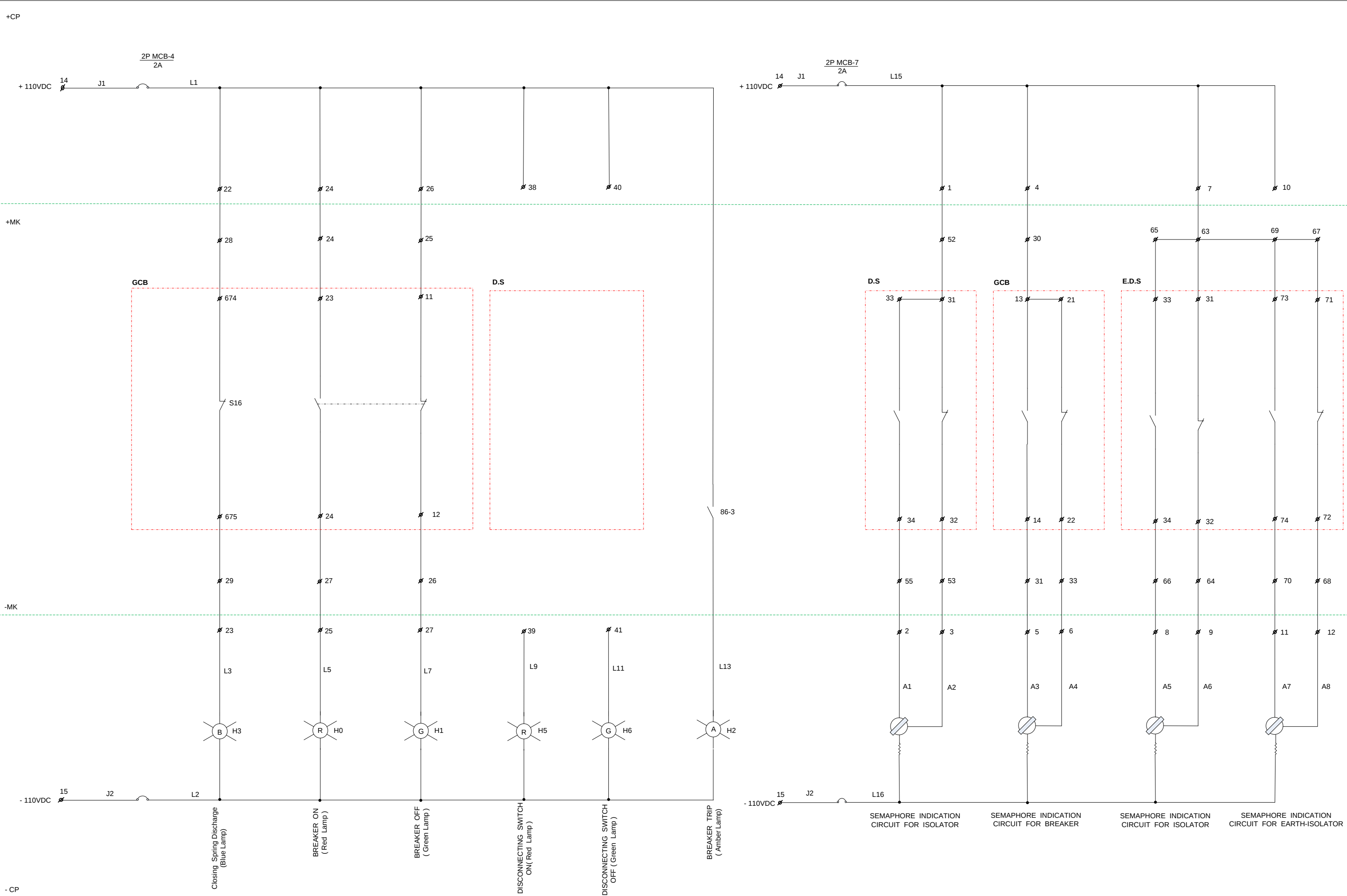
REV. NO.	DATE	DESCRIPTION	DRAWN	DESIGNED	CHECKED	APPROVED	230KV HLAINGTHARYAR INCOMING	TITLE	C.T & P.T CIRCUIT	
	9-2-2012		AYE MIN THU(A.E)	AYE MIN THU(A.E)	AYE MIN THU(A.E)		TEAM ARTECHE (SPAIN)	SCALE:	FILE NAME:	DRAWING NO.
									230KV BAYINTNAUNG PRIMARY SUB-STATION	1



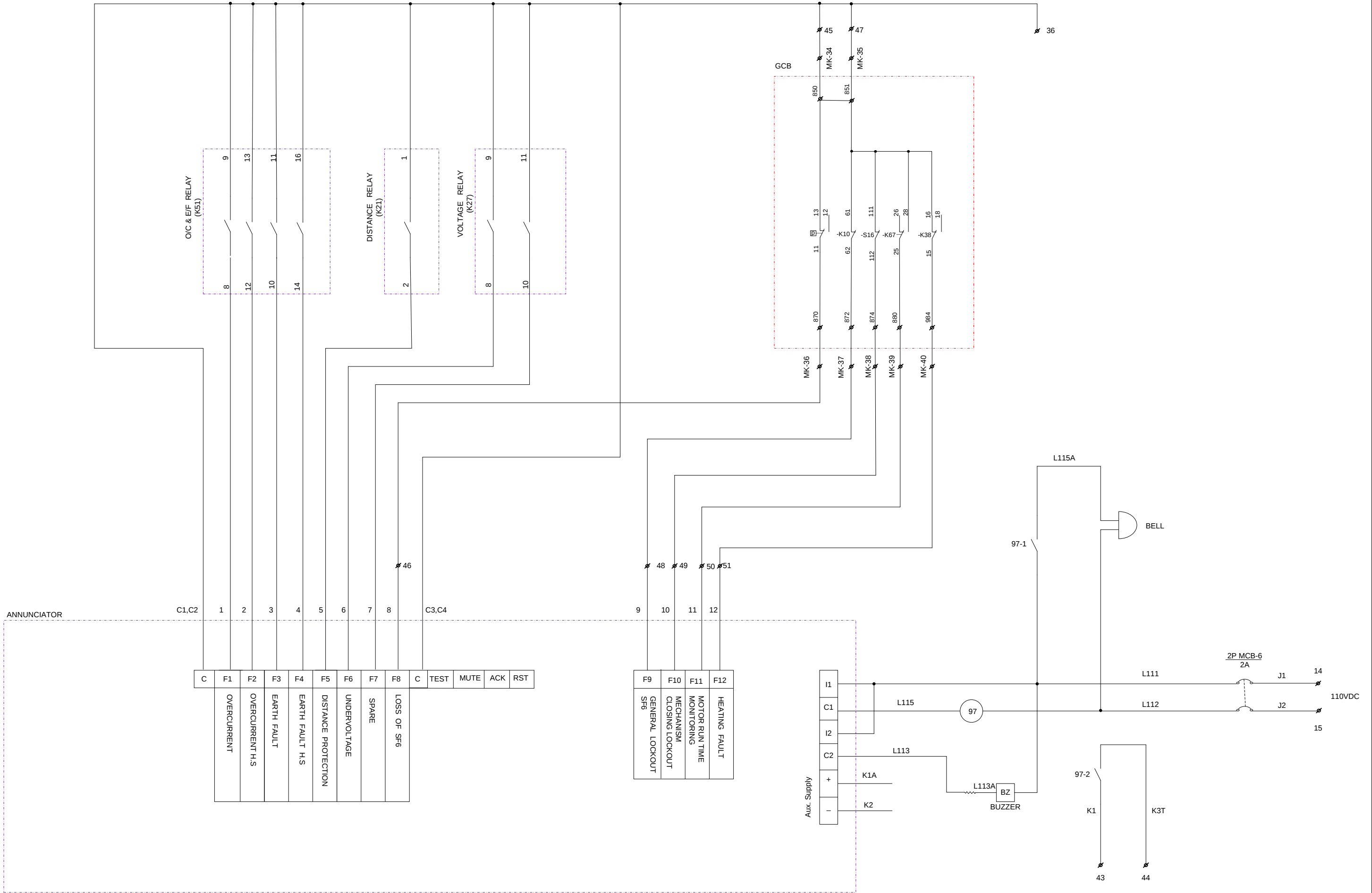
REV. NO.	DATE	DESCRIPTION	DRAWN	DESIGNED	CHECKED	APPROVED	230KV HLAINGTHARYAR INCOMING	TITLE C.B CLOSING & TRIPPING CIRCUIT		
	9-2-2012		AYE MIN THU(A.E)	AYE MIN THU(A.E)	AYE MIN THU(A.E)		TEAM ARTECHE (SPAIN)	SCALE:	FILE NAME: 230KV BAYINTNAUNG PRIMARY SUB-STATION	DRAWING NO. 2



REV. NO.	DATE	DESCRIPTION	DRAWN	DESIGNED	CHECKED	APPROVED	230KV HLAINGTHARYAR INCOMING			TITLE		
01	9-2-2012		AYE MIN THU(A.E)	AYE MIN THU(A.E)	AYE MIN THU(A.E)		TEAM ARTECHE (SPAIN)			SCALE:	FILE NAME:	DRAWING NO.
											230KV BAYINTNAUNG PRIMARY SUB-STATION	3



REV. NO.	DATE	DESCRIPTION	DRAWN	DESIGNED	CHECKED	APPROVED	230KV HLAINGTHARYAR INCOMING		TITLE		
	9-2-2012		AYE MIN THU(A.E)	AYE MIN THU(A.E)	AYE MIN THU(A.E)		TEAM ARTECHE (SPAIN)		SCALE:	FILE NAME:	DRAWING NO.
										230KV BAYINTNAUNG PRIMARY SUB-STATION	4



REV. NO.	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED	230KV HLAINGTHARYAR INCOMING	TITLE		
	9-2-2012		AYE MIN THU(A.E)	AYE MIN THU(A.E)	AYE MIN THU(A.E)	TEAM ARTECHE (SPAIN)	SCALE:	FILE NAME:	DRAWING NO.
								230KV BAYINTNAUNG PRIMARY SUB-STATION	5

CONTROL PANEL			
MK No.	CR Panel	Tag No.	Description
MK-1	1	D 11	C.T Metering
MK-4	2	D 31	
MK-7	3	D 51	
MK-9	4	D 70	
MK-21	5	C 11	C.T Protection
MK-24	6	C 31	
MK-27	7	C 51	
MK-29	8	C 71	
	9		Spare
MK-2/1	10	E 10	P.T (110V)
MK-5/4	11	E30	
MK-8/7	12	E 50	
MK-9/8	13	E 70	
-	14	J 1	110V DC Supply (From DC Panel)
-	15	J 2	
MK-22	16	K 23	Breaker Closing Circuit
MK-19	19	K 19	
	17	K 23A	Future Interlock
	18	K 23B	
	20	K 33	Breaker Tripping Circuit
MK-21	21	K 3	
MK-28	22	L 1	Spring Charge Indicator(Lamp)
MK-29	23	L 3	
MK-24	24	L 1	Breaker ON Indicator(lamp)
MK-27	25	L 5	
MK-25	26	L 1	Breaker OFF Indicator(lamp)
MK-26	27	L 7	
	28		Spare
-	29	H 1	230VAC Supply (From TT- 4 & N)
-	30	H 2	
	31		Spare
MK -23	32	K 1D	Trip Test
	33	K 37	Master Trip Relay NO
	34	K 39	
	35		Spare
	36	C 3	ANN Spare
	37		
	38	L 1	DS ON Indicator(lamp)
	39	L 9	
	40	L 1	DS OFF Indicator(lamp)
	41	L 11	
MK-20	42	K 2	110VDC (-)
	43	K 1	External Alarm
	44	K 3T	
MK-34	45	C 3	Loss of SF6
MK-36	46	8	
MK-35	47	C 2,C 4	General Lockout SF6
MK-37	48	9	
MK-38	49	10	Mechanism Closing Lockout
MK-39	50	11	Motor Runtime Monitoring
MK-40	51	12	Heating Fault
	52		Spare
MK-14	53	E 130	Transmission Protection
MK-15	54	E 170	
MK-11	55	A 11	Distance Protection
MK-14	56	A 31	
MK-17	57	A 51	
MK-19	58	A 71	

CONTROL PANEL			
MK No.	CR Panel	Tag No.	Description
MK-52	1	L 15	Semaphore Indicator for Isolator
MK-55	2	A 1	
MK-53	3	A 2	Semaphore Indicator for Breaker
MK-30	4	L 15	
MK-31	5	A 3	
MK-33	6	A 4	Semaphore Indicator for Isolator
MK-63	7	L 15	
MK-64/66	8	A 5	
MK-66/64	9	A 6	Semaphore Indicator for Earth Isolator
	10	L 15	
MK-67/70	11	A 7	
MK-68	12	A 8	230VAC Supply (From CR Panel 29-30)
To TR Panel	13	H 1	
	14	H 2	Under Voltage Relay
	15	RLY 3	
	16	RLY 4	
	17	RLY 5	
	18	Spare	
MK-50	19	J 1	110VDC Supply (From CR Panel 14-15)
MK-51	20	J 2	
	21		Spare
MK-41	22	H 1	230VAC Supply (From CR Panel 29-30)
MK-42	23	H 2	

DS CONTROL PANEL		
Description	DS No.	MK No.
230VAC Supply	1	MK 45
	2	MK 46
400VAC(3Ø) Supply	5	MK 47
	6	MK 48
-110VDC Supply	7	MK 4
	11	MK 51
	12	
	13	
+110VDC Supply	14	MK 74
	15	
+110VDC Supply	21	
-110VDC Supply	22	
NC Contact	31	MK 52
	32	MK 53
NO Contact	33	
	34	MK 55
NC Contact	35	
	36	
NO Contact	37	
	38	
NC Contact	39	
	40	
NO Contact	41	
	42	
NC Contact	43	
	44	
NC Contact	51	
	52	
NO Contact	53	MK 18
	54	MK 17

		DESCRIPTION	DRAWN		CHECKED	APPROVED	230KV HLAINGTHARYAR INCOMING	TITLE	TERMINATION		
	9-2-2012		AYE MIN THU(A.E)	AYE MIN THU(A.E)	AYE MIN THU(A.E)		TEAM ARTECHE (SPAIN)	SCALE:	FILE NAME:	DRAWING NO.	
									230KV BAYINTNAUNG PRIMARY SUB-STATION	7	

MARSHALLING KIOSK PANEL (X-1)		
CR Panel	MK Panel	Other Panel
CP 1	1	CT 1S 1
	2	CT 1S 2
	3	CT 1S 3
CP 2	4	CT 1S 1
	5	CT 1S 2
	6	CT 1S 3
CP 3	7	CT 1S 1
	8	
CP 4	9	CT 1S 2
	10	CT 1S 3
CP 55	11	CT 2S 1
	12	CT 2S 2
	13	CT 2S 3
CP 56	14	CT 2S 1
	15	CT 2S 2
	16	CT 2S 3
CP 57	17	CT 2S 1
	18	
CP 58	19	CT 2S 2
	20	CT 2S 3
CP 5	21	CT 3S 1
	22	CT 3S 2
	23	CT 3S 3
CP 6	24	CT 3S 1
	25	CT 3S 2
	26	CT 3S 3
CP 7	27	CT 3S 1
	28	
CP 8	29	CT 3S 2
	30	CT 3S 3

MARSHALLING KIOSK PANEL (X-2)		
CR Panel	MK Panel	Other Panel
CP 10	1	CVT 1
	2	CVT 2
	3	CVT 3
CP 11	4	CVT 4
	5	CVT 5
	6	CVT 6
CP 12	7	CVT 7
CP 13	8	CVT 8
	9	CVT 9
	10	

MARSHALLING KIOSK PANEL (X-2)			
CR Panel	Looping	MK Panel	Other Panel
		11	
		12	
		13	
CP 54/53		14	
CP 55/54		15	
		16	
DS 54		17	GCB 610
DS 53		18	DSE 54
CP 16/19		19	DSE 53
CP 19/42		20	GCB 625
CP 20/21		21	GCB 630
CP 21/16		22	GCB 645/613
CP 32		23	GCB 688
CP 24		24	GCB 10/ 23
CP 26		25	GCB 11
CP 27		26	GCB 12
CP 25		27	GCB 19/ 24
CP 22		28	GCB 674
CP 23		29	GCB 675
5/ CP 4		30	GCB 13
6/ CP 5		31	GCB 14
		32	
7/ CP 6		33	GCB 22
CP 3/ 45		34	GCB 850
CP 4/47		35	GCB 851
CP 8/46		36	GCB 870
CP 9/48		37	GCB 872
CP 10/49		38	GCB 874
CP 11/50		39	GCB 880
CP 12 /51		40	GCB 984
- / CP 22(H1)		41	GCB 450
- / CP 23(H2)		42	GCB 465
	From 41	43	MK Heater & Lighting
	From 42	44	
	From 43	45	LDS 1
	From 44	46	LDS 2
DS 5 (L1)	From MTR	47	LDS 5
DS 6 (L2)	From MTR	48	LDS 6
DS 7 (L3)	From MTR	49	LDS 7
DS 11/ CP 19(J1)		50	GCB 31
DS 14/ CP 20(J2)		51	LDS 11
DS 31 / CP 1		52	LDS 31
DS 32/ CP 3		53	LDS 32
		54	
DS 34/ CP 2		55	LDS 34
	From 45	56	DSE 1
	From 46	57	DSE 2
	From 47	58	DSE 5
	From 48	59	DSE 6
	From 49	60	DSE 7
	From 50	61	GCB 41
	From 51	62	DSE 11
DSE 31/ CP 47		63	7/DSE 31
DSE 33 / CP 9		64	8/DSE 32
		65	9/DSE 33
DSE 32 / CP 8		66	11/DSE 34
		67	12/DSE 71
DSE 71 / CP 12		68	DSE 72
		69	DSE 73
DSE 74 / CP 11		70	DSE 74

MARSHALLING KIOSK PANEL (X-2)			
CR Panel	Looping	MK Panel	Other Panel
		71	
		72	
		73	
GCB 32		74	DS 14
GCB 34		75	DSE 14
		76	
		77	
		78	
DSE 5	From 58	79	To DS of 230KVCapacitor Bank
DSE 6	From 59	80	
DSE 7	From 60	81	
		82	
GCB 31	From 61	83	
DSE 11	From 62	84	
		85	
		86	
		87	
		88	
		89	
		90	

		DESCRIPTION	DRAWN		CHECKED	APPROVED	230KV HLAINGTHARYAR INCOMING	TITLE			TERMINATION	
	9-2-2012		AYE MIN THU(A.E)	AYE MIN THU(A.E)	AYE MIN THU(A.E)		TEAM ARTECHE (SPAIN)	SCALE:	FILE NAME:		DRAWING NO.	
								230KV BAYINTNAUNG PRIMARY SUB-STATION		8		