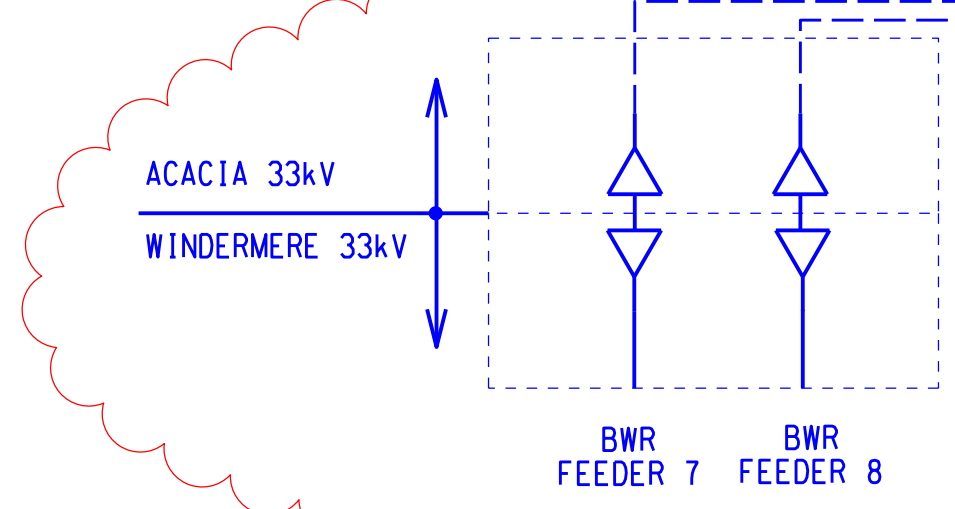
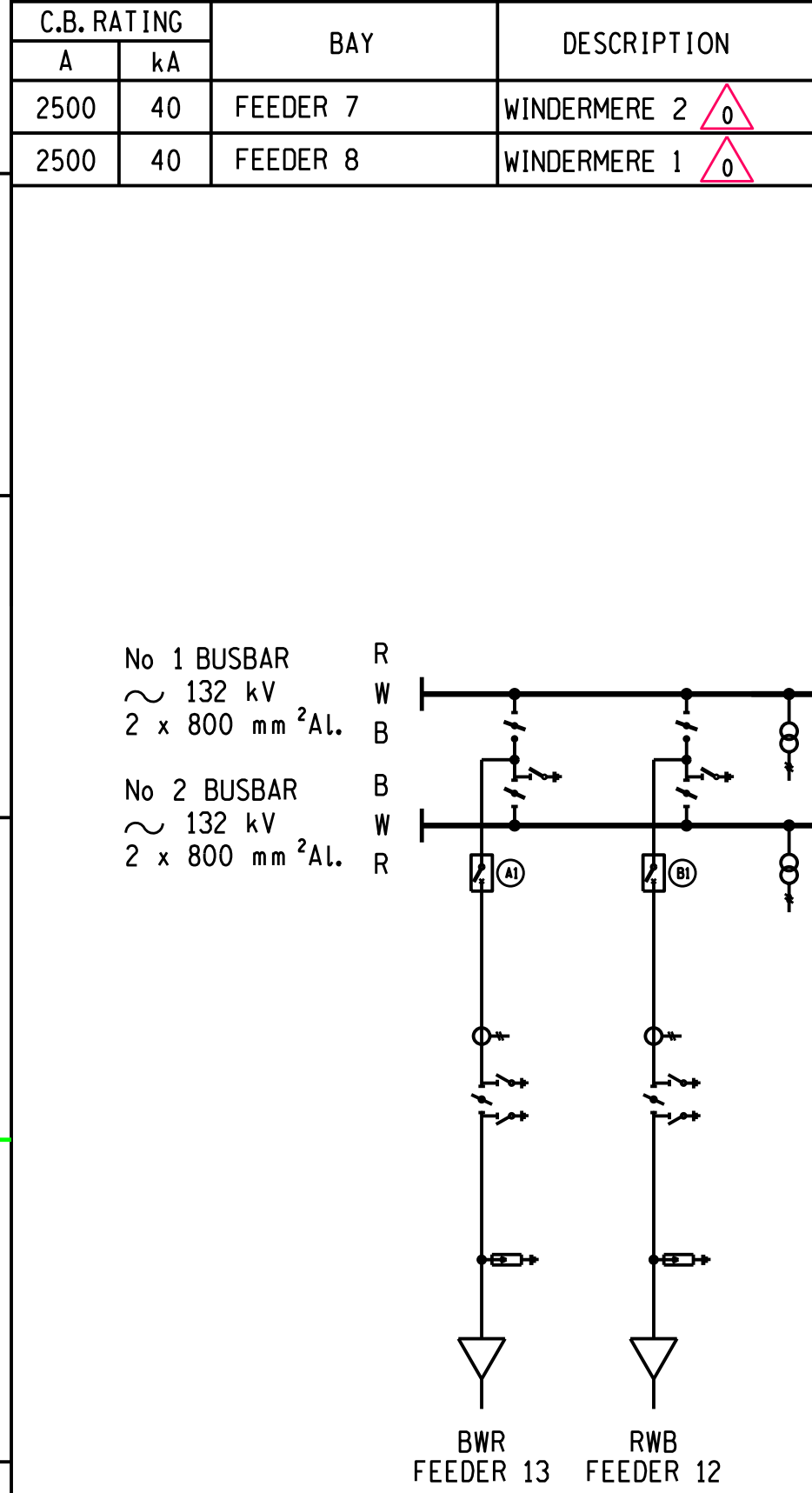
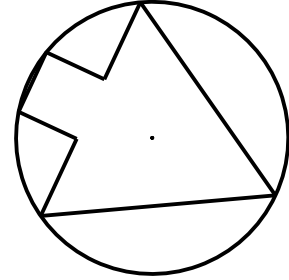


400 - kV				
C.B. RATING	A	kA	BAY	DESCRIPTION
2500	31,5		FEEDER 1	PHILIPPI 1
2500	31,5		FEEDER 2	PHILIPPI 2
2500	31,5		FEEDER 3	MULDERSVLEI 1
2500	31,5		FEEDER 4	KOEBERG 1
			FEEDER 5	MONTAGUE GARDENS 1 (FUTURE)
			FEEDER 6	MONTAGUE GARDENS 2 (FUTURE)
3150	50		FEEDER 7	KOEBERG 2
2500	31,5		BUS COUPLER 'A'	
3150	50		BUS COUPLER 'B'	
3150	50		BUSBAR 2	BUS SECTION 1
				✓

66 - kV				
C.B. RATING	A	kA	BAY	DESCRIPTION
2500	31,5		TRFR. 7	(WAS FEEDER 1)
2500	31,5		TRFR. 8	
2500	31,5		FEEDER 1	SPARE (PLATTEKLOOF 1)
			FEEDER 2	SPARE WAS S.R.P.S. 2
1600	20		FEEDER 3	GRENS 2
1600	20		FEEDER 4	GRENS 1
2500	31,5		FEEDER 5	ASCOT 1
2500	31,5		FEEDER 6	ASCOT 2
2500	31,5		BUS COUPLER	

33 - kV				
C.B. RATING	A	kA	BAY	DESCRIPTION
2500	40		FEEDER 7	WINDERMERE 2
2500	40		FEEDER 8	WINDERMERE 1

132 - kV				
C.B. RATING	A	kA	BAY	DESCRIPTION
3150	40		FEEDER 1	(NEW TRFR. 13)
3150	40		FEEDER 2	MONTAGUE GARDENS 2
3150	40		FEEDER 3	PLATTEKLOOF 2
3150	40		FEEDER 4	MONTAGUE GARDENS 1
3150	40		FEEDER 5	PLATTEKLOOF 1
3150	40		FEEDER 6	TAFELBAAI 1
3150	40		FEEDER 7	TAFELBAAI 2
3150	40		FEEDER 8	ACACIA - P/S GEN
3150	40		FEEDER 9	KOEBERG 2
3150	40		FEEDER 10	CARBON 1
3150	40		FEEDER 11	CARBON 2
3150	40		FEEDER 12	RICHMOND ESTATE 1
3150	40		FEEDER 13	RICHMOND ESTATE 2
3150	40		CAP. BANK 1	
3150	40		CAP. BANK 2	
3150	40		CAP. BANK 3	
3150	40		No. 1 BUS SECTION 1	✓
3150	40		BUS COUPLER 'A'	
3150	40		BUS COUPLER 'B'	✓
3150	40		No. 2 BUS SECTION 1	✓



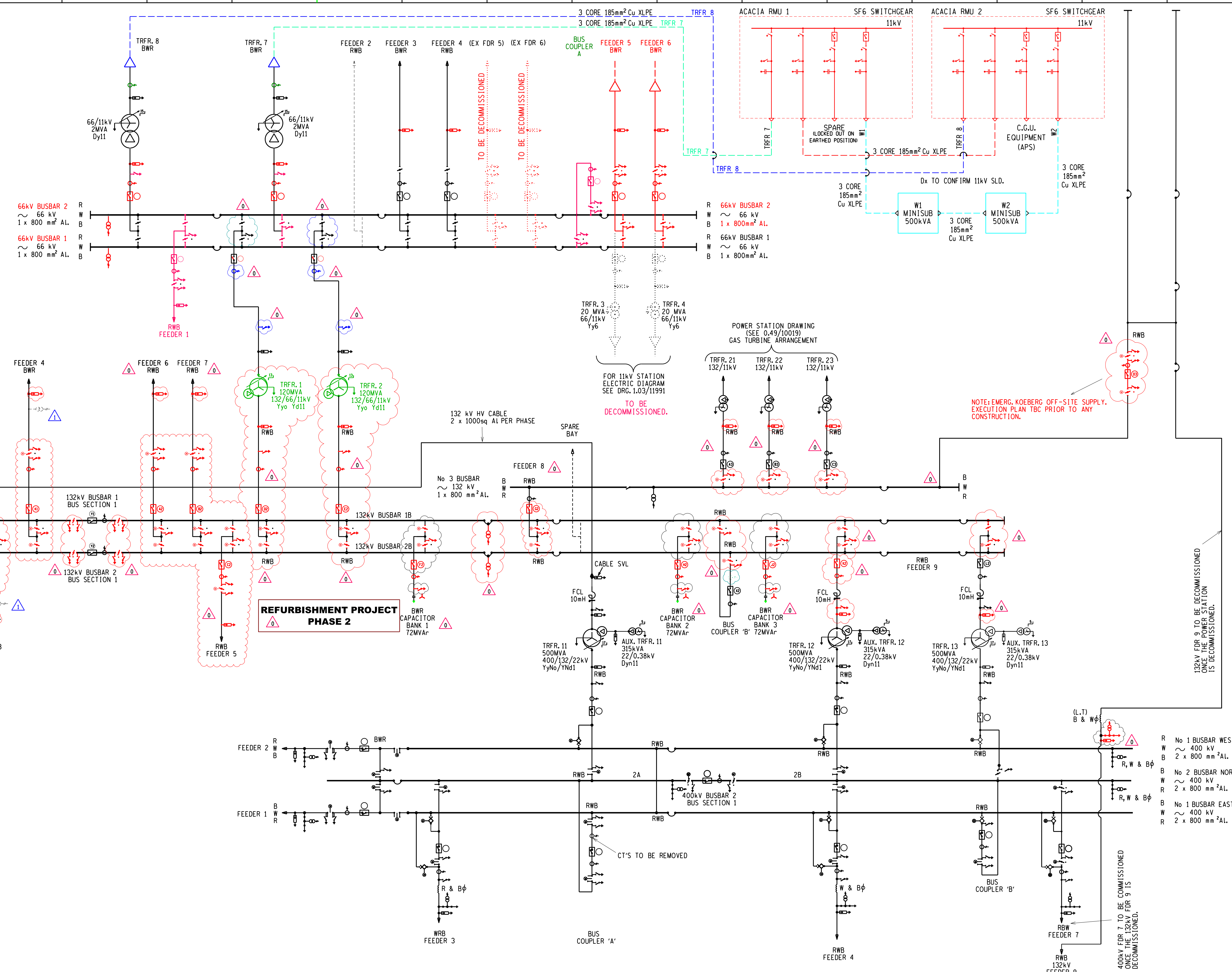
400/132 kV TRANSFORMERS				
C.B. RATING	kV	A	kA	DESCRIPTION
400	2500	31,5		TRANSFORMER 11
132	2500	31,5		TRANSFORMER 12
400	2500	31,5		TRANSFORMER 13
132	2500	31,5		TRANSFORMER 14
400	2500	31,5		TRANSFORMER 15
132	2500	31,5		TRANSFORMER 16
400	2500	31,5		TRANSFORMER 17
132	2500	31,5		TRANSFORMER 18
				✓

132/66 kV TRANSFORMERS				
C.B. RATING	kV	A	kA	DESCRIPTION
132	3150	40		TRANSFORMER 1
66	1250	21,9		TRANSFORMER 2
132	3150	40		TRANSFORMER 3
66	1250	21,9		TRANSFORMER 4

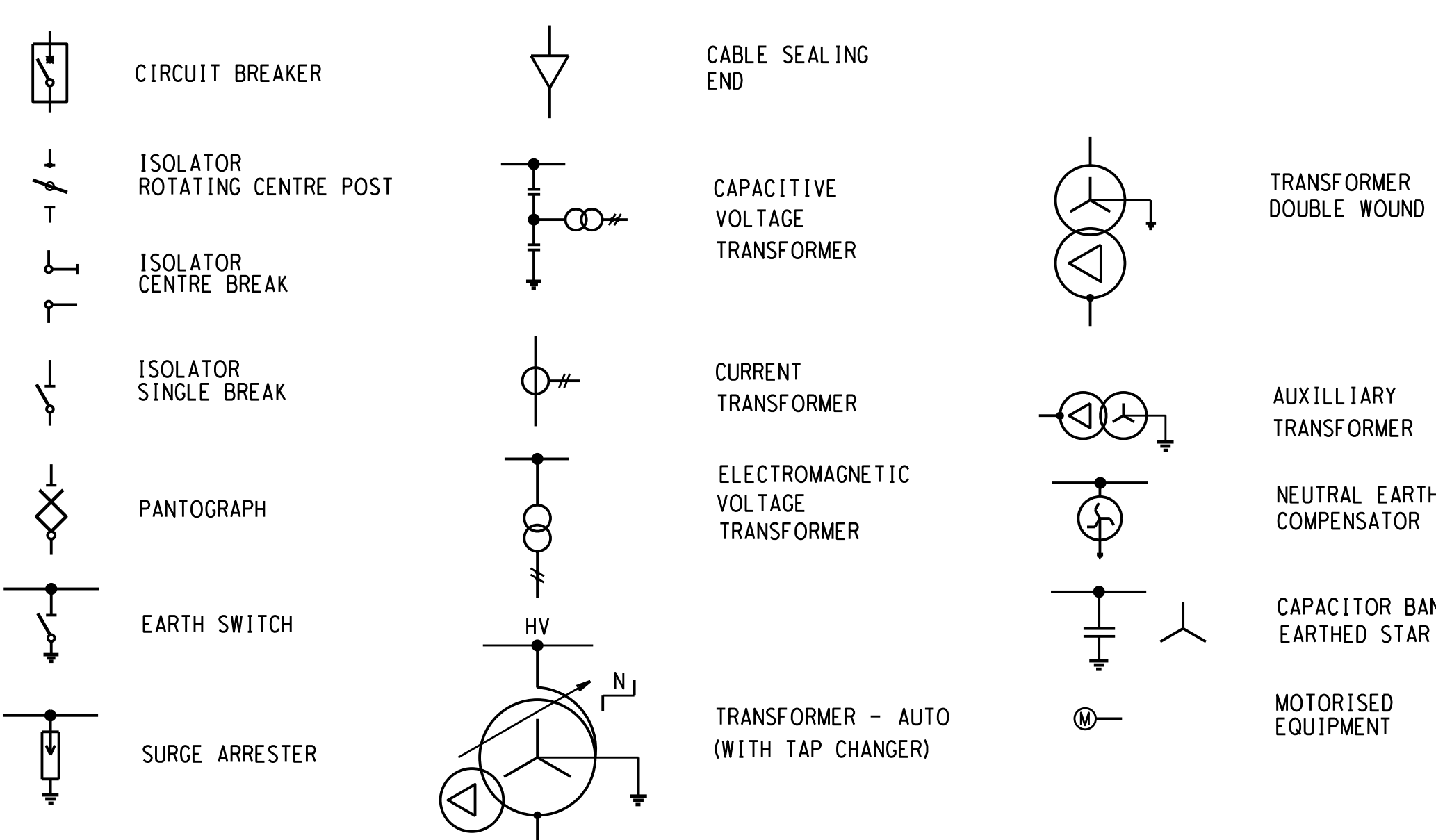
132/11 kV TRANSFORMERS				
C.B. RATING	kV	A	kA	DESCRIPTION
132	3150	40		TRANSFORMER 21
132	3150	40		TRANSFORMER 22
132	3150	40		TRANSFORMER 23

132/33 kV TRANSFORMERS				
C.B. RATING	kV	A	kA	DESCRIPTION
132	3150	40		TRANSFORMER 5
33	2500	25		TRANSFORMER 6
132	3150	40		TRANSFORMER 7
33	2500	25		TRANSFORMER 8

66/11 kV TRANSFORMERS				
C.B. RATING	kV	A	kA	DESCRIPTION
66	2500	31,5		TRANSFORMER 3
11	-	-	-	TRANSFORMER 4
66	2500	31,5		TRANSFORMER 7
11	-	-	-	TRANSFORMER 8
66	1200	21,9		TRANSFORMER 9
11	-	-	-	TRANSFORMER 10
66	2500	31,5		TRANSFORMER 11
11	-	-	-	TRANSFORMER 12



LEGEND



NOTES

- C.T. BUS ZONE TURNS RATIO
400kV 1/1600
132kV 1/1200
- STATION BATTERY VOLTAGE 110V D.C.
- ISOLATOR BLADES OPENING SHOWN GEOGRAPHICALLY CORRECT.
- * ISOLATOR BLADES REMOVED.

FINAL DESIGN FOR CONSTRUCTION
ORIGINAL DWG #: 0.037224 REV 39
CONCEPT DWG #: N/A
DETAIL DWG #: WAc09P04-SE-D6-B REV 0

1		REV 0 REINSTATED 33kV FEEDER 7 & 8 UPDATED 132kV HV CABLES SHOWN 132kV FEEDS 2,3 & 4 TFS REMOVED				18/06/2021			
2		132kV EQUIPMENT RELOCATED 132kV FEEDER 1 & 2 RELOCATED TRFR 5 & 6 LINE BANNED WITH 33kV FOR 7 & 8.				18/06/2021			
0		REVISION DESCRIPTION				DT-B		REV PLAN	
SUBSTATION DESIGN DESIGNED BY: SHIVERN SINGH, CHECKED BY: MARK PEPPER, DATE: 18/06/2021		SUBSTATION DESIGN DESIGNED BY: SHIVERN SINGH, CHECKED BY: MARK PEPPER, DATE: 18/06/2021				DATE: 18/06/2021, TIME: 14:00, DRAWN BY: SHIVERN SINGH, CHECKED BY: MARK PEPPER, DATE: 18/06/2021			
DATE: 18/06/2021		DATE: 18/06/2021				DATE: 18/06/2021, TIME: 14:00, DRAWN BY: SHIVERN SINGH, CHECKED BY: MARK PEPPER, DATE: 18/06/2021			
SECONDARY PLAN DESIGN ORIGIN		GERTRUDE TSHIKOTA				DATE: 18/06/2021, TIME: 14:00, DRAWN BY: SHIVERN SINGH, CHECKED BY: MARK PEPPER, DATE: 18/06/2021			
DATE: 18/06/2021		DATE: 18/06/2021				DATE: 18/06/2021, TIME: 14:00, DRAWN BY: SHIVERN SINGH, CHECKED BY: MARK PEPPER, DATE: 18/06/2021			
SCALE: 1:1		WAc09P04-SE-E3-B				SHEET NUMBER: 0			
						REVISION: 1			