

- NOTES:
- CT BUS ZONE TURNS RATIO
400kV 1/2400
132kV 1/2400
 - STATION BATTERY VOLTAGE: 220V DC.

400kV						
BAY	DESCRIPTION	STAGE 1 2022	STAGE 2	STAGE 3	STAGE 4	
FEEDER 1	ACACIA 2	✓				
FEEDER 2	ACACIA 1	✓				
FEEDER 3	STIKLAND 1	✓				
FEEDER 4	STERREKUS 1	✓				
FEEDER 5	ANMERLIG 1	✓				
FEEDER 6	ANMERLIG 2	✓				
FEEDER 7	INTERCONNECTING FEEDER 1	✓				
FEEDER 8	INTERCONNECTING FEEDER 2 (TRFR 13 FUT)	✓				

400kV GENERATOR TRANSFORMERS						
CB RATING	BAY	DESCRIPTION	STAGE 1 1977	STAGE 2	STAGE 3	STAGE 4
400 4000 63	GEN TRFR 1 (EXISTING)	1050MVA	✓			
400 4000 63	GEN TRFR 2 (EXISTING)	1050MVA	✓			

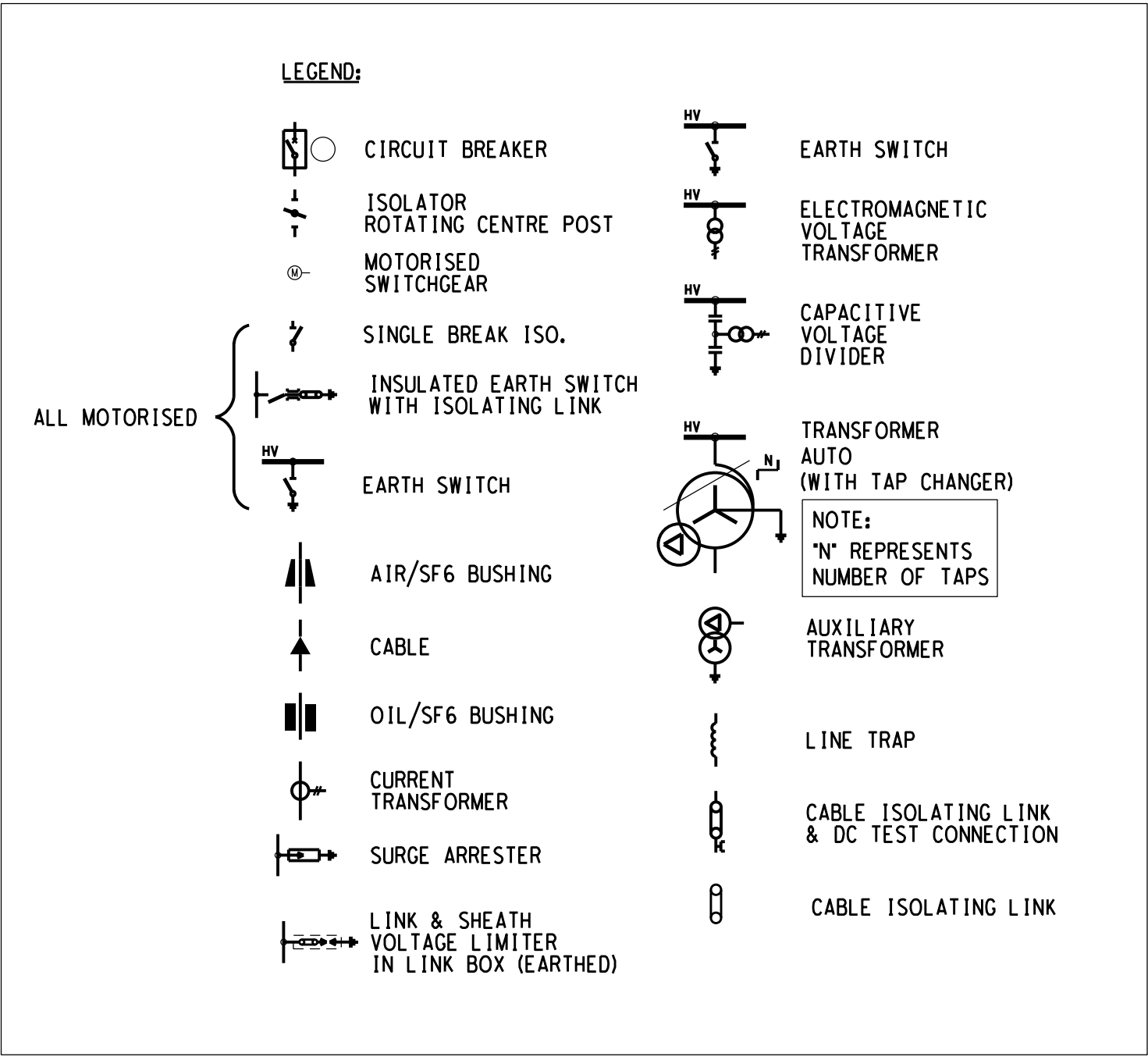
400/132kV TRANSFORMERS						
BAY	DESCRIPTION	STAGE 1 2022	STAGE 2	STAGE 3	STAGE 4	
TRANSFORMER 11	250MVA	✓				
TRANSFORMER 12	250MVA	✓				
TRANSFORMER 13	(FUTURE)					

400kV CIRCUIT BREAKERS							
C.B. RATING A kA	TYPE	DIA	BAY	DESCRIPTION	STAGE 1 2022	STAGE 2	STAGE 3
4000 50	-	GA	BAY 1, TIE BAY, BAY 2	FDR 1 & TRFR 11	✓		
4000 50	-	GB	BAY 1, TIE BAY, BAY 2	FDR 2 & FDR 3	✓		
4000 50	-	GC	BAY 1, BAY 2	GEN. TRFR 2	✓		
4000 50	-	GD	BAY 1, BAY 2	GEN. TRFR 1	✓		
4000 50	-	GE	BAY 1, TIE BAY, BAY 2	FDR 4 & FDR 5	✓		
4000 50	-	GF	BAY 1, TIE BAY, BAY 2	FDR 6 & TRFR 12	✓		
4000 50	-	GG	BAY 1, TIE BAY, BAY 2	FDR 7 & FDR 8	✓		

132kV						
BAY	DESCRIPTION	STAGE 1 2022	STAGE 2	STAGE 3	STAGE 4	
FEEDER 1	(FUTURE)					
FEEDER 2	(FUTURE)					
FEEDER 3	DASSEBERG 2	✓				
FEEDER 4	DASSEBERG 1	✓				
FEEDER 5	BLAUBERG 1	✓				
FEEDER 6	ANMERLIG 1 (EMERGENCY SUPPLY)	✓				
FEEDER 7	DUNE	✓				
FEEDER 8	(FUTURE)					

132/66kV TRANSFORMERS						
C.B. RATING	BAY	DESCRIPTION	STAGE 1 1977	STAGE 2	STAGE 3	STAGE 4
132 6,6	STATION TRFR 1 (EXISTING)	250MVA	✓			
132 6,6	STATION TRFR 2 (EXISTING)	250MVA	✓			

132kV CIRCUIT BREAKERS							
C.B. RATING	TYPE	DIA	BAY	DESCRIPTION	STAGE 1 2022	STAGE 2	STAGE 3
A	ka						
-	-	-	CA	FUTURE	FDR 1 (F) & FDR 2 (F)		
3150	40	-	CB	BAY 1, TIE BAY, BAY 2	FDR 3 & TRFR 11	✓	
3150	40	-	CC	BAY 1, TIE BAY, BAY 2	FDR 4 & FDR 5	✓	
3150	40	-	CD	BAY 1, BAY 2	STATION TRFR 2	✓	
3150	40	-	CE	BAY 1, TIE BAY, BAY 2	FDR 6 & STATION TRFR 1	✓	
3150	40	-	CF	BAY 1, TIE BAY, BAY 2	FDR 7 & TRFR 12	✓	
-	-	-	CG	FUTURE	FDR 8 (F) & TRFR 13 (F)		



2		FOLLOWING 132kV CIRCUIT BREAKERS: 1. 132/66kV CB (EXISTING) 2. 132/66kV CB (EXISTING) 3. 132/66kV CB (EXISTING) 4. 132/66kV CB (EXISTING) 5. 132/66kV CB (EXISTING) 6. 132/66kV CB (EXISTING) 7. 132/66kV CB (EXISTING) 8. 132/66kV CB (EXISTING) 9. 132/66kV CB (EXISTING) 10. 132/66kV CB (EXISTING) 11. 132/66kV CB (EXISTING) 12. 132/66kV CB (EXISTING) 13. 132/66kV CB (EXISTING) 14. 132/66kV CB (EXISTING) 15. 132/66kV CB (EXISTING) 16. 132/66kV CB (EXISTING) 17. 132/66kV CB (EXISTING) 18. 132/66kV CB (EXISTING) 19. 132/66kV CB (EXISTING) 20. 132/66kV CB (EXISTING) 21. 132/66kV CB (EXISTING) 22. 132/66kV CB (EXISTING)		20/05/2020		DT		KEY PLAN	
REV	DESCRIPTION	DRWN	CHKD	DATE	DATE	DATE	DATE	DATE	DATE
1	ORIGINAL DESIGN	C. THOMAS	M. PEPPER	24/01/2017	24/01/2017	24/01/2017	24/01/2017	24/01/2017	24/01/2017
2	REVISION: 132kV CIRCUIT BREAKERS	C. THOMAS	M. PEPPER	24/01/2017	24/01/2017	24/01/2017	24/01/2017	24/01/2017	24/01/2017
SUBSTATION DESIGN		SUBSTATION DESIGN		SUBSTATION DESIGN		SUBSTATION DESIGN		SUBSTATION DESIGN	
C. THOMAS		M. PEPPER		WESKUSFLEUR		Eskom Holdings SOC Ltd		Reg No 2002/015527/30	
DATE: 24/01/2017		DATE: 24/01/2017		WESKUSFLEUR		STATION ELECTRIC DIAGRAM		Wk011P01-SE-D6	
L. KOTZE		C. WOOD		0		2		0	
DATE: 24/01/2017		DATE: 24/01/2017		SCALE: ~		0		2	

DETAIL DESIGN
NOT FOR CONSTRUCTION
ORIGINAL DWG NO. 015527-30
CONCEPT DWG NO. Wk011P01-SE-SHT 1 & 2