

EQUIPMENT SCHEDULE - Rev7					
ITEM	DESCRIPTION	DRWNO	SAP	UNIT	QTY
ISO 1	ISOL 22kV 2500A 25kA CROB H/O	D-DT-6154	0012904	ea	1
BKR(B)	BKR K105K 22kV 1250A 20kA	D-DT-6252	0170218	ea	1
IS/C	ISOL 22kV 2500A 25kA CROB H/O	D-DT-6154	0012904	ea	1
	CABLE COVER PVC ORG/BLK 450Wx300m	D-DT-6813	0171426	m	1400
	CABLE 11kV 3C 300S50.CU EUK3UC0	D-DT-6801	0184296	m	1400

EXISTING EQUIPMENT SCHEDULE			
MARK	DESCRIPTION	DRAWING NUMBER	COMMENTS
IS101, IS108	132kV LINE ISOL & SA	D-DT-4622 SH1	
IS105, IS106	132kV BUSBAR/BUS-SECTION ISOLATORS	D-DT-4623 SH1	
IS102-IS104, IS107-IS109, IS110	132kV ISOLATORS - CENTPEDE	D-DT-4623 SH1	
CB101-CB106	132kV CIRCUIT BREAKERS	D-DT-4618 SH1	
CT101-CT106	132kV CURRENT TRFRS	D-DT-4631 SH1	
VT101-VT102	132kV VOLTAGE TRFRS	D-DT-4636 SH1	
TB1, TB2	132kV LINE TERMINAL BLOCKS	2-WT/1279 SH6	
T1-T4	20 MVA 132/11kV TRFRS	D-DT-4601	
NE1-2,4	11kV NEC/NER/AUX	D-DT-4613	
BRS-8	22kV TRFR CIRCUIT BREAKERS	D-DT-4619	
BRS-20	22kV LINE CIRCUIT BREAKERS WITH 11kV SA	D-DT-4753 SH2	
ISR-11	22kV ISOLATORS - BULL	D-DT-4626 SH1	
IS12-16	22kV ISOLATORS - TWIN BULL	D-DT-4626 SH2	* SEE NOTE 9
VT3-6	11kV VOLTAGE TRFRS	D-DT-4643	
CAT-8	11kV CABLE SUPPORTS - BULL	D-DT-4649	
CAS-16	11kV CABLE SUPPORTS - HORNET	D-DT-4647	
CI-48	22kV BOX STRUCTURE COLUMNS & DETAIL	D-DT-5223	
	22kV BOX STRUCTURE WITH 11kV FOR BAY	D-DT-4356 SH2	* SEE NOTE 9
		D-DT-4757	
LW1	8m LIGHTING MASTS - 3 LUMIN	D-DT-5051 SH11-5	
LM2-3	8m LIGHTING MAST W/ 3 LUMIN	D-DT-5051 SH11-5	
LM1-9, LM12-13	8m LIGHTING MASTS - 2 LUMIN	D-DT-4798 SH2	
LM10-11	8m LIGHTING MASTS - 4 LUMIN	D-DT-4798 SH4	

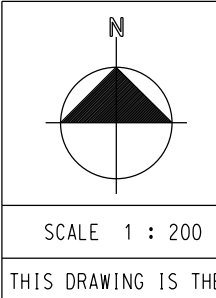
EQUIPMENT SCHEDULE - REV 8		
MARK	DESCRIPTION	DRAWING NUMBER
LT101	LINE TERMINAL SUPPORT	D-DT/4645
IS116	132kV LINE ISOL & SA	D-DT/4627
IS113, IS116-1S118	132kV ISOLATORS	D-DT/4623
IS111, IS112, IS114, IS115	132kV BUSBAR/BUS-SECTION ISOLATORS	D-DT/4630
CB107, CB109	132kV CIRCUIT BREAKERS	D-DT/4618
CB108	132kV CIRCUIT BREAKERS	D-DT/4618
CT107-CT109	132kV CURRENT TRFRS	D-DT/4631
VT103	132kV VOLTAGE TRFRS	D-DT/4638
CI09-T14	132kV COLUMN	0.54/336/337C
B109, B110, B112, B113	132kV BEAM (15240)	0.54/336/337B
B108, B111, B114	132kV BEAM (15000)	0.54/336/337B
TS, T6	20 MVA 132/22kV TRFRS	D-DT/4603
NORT1, NORT2	22kV NEC/NER/AUX	D-DT/4614
SRC1, SRC2	22kV CROSSING SUPPORT	2-E1/1500242
KBT, KBA	22kV KIOSK BREAKER 1250A 20kA	D-DT/4619
KB2, KB3, KB5	22kV KIOSK BREAKER WITH SA 1250A 20kA	D-DT/4753
IS201- IS210	22kV ISOLATOR 2500A 20kA	D-DT/4626
IS206, IS207	22kV SECTION ISOLATOR 2500A 20kA	D-DT/4626
B1203-B1204-B1205	22kV BYPASS ISOLATOR 400A 12kV	D-DT/4750
VT201, VT202	22kV VOLTAGE TRFR	D-DT/4640
BC1-BC17	22kV BOX STRUCTURE COLUMNS & DETAIL - TWIN BULL	D-DT/4752
LM14	21m LIGHTING MASTS - 1 LUMIN	D-DT-4798 SH1
LM15-16	21m LIGHTING MASTS - 4 LUMIN	D-DT-4798 SH4
LM17	21m LIGHTING MASTS - 3 LUMIN	D-DT-4798 SH3
	CONTROL ROOM	2-E1/1490A

- NOTES:
1. ALL WORK TO BE DONE IN ACCORDANCE WITH SABS200 LATEST REVISION.
 2. ALL LEVELS TO BE SET-OUT FROM BENCH INDICATED ON SHEET 2 WITH 3. TOP OF EQUIPMENT FOUNDATIONS TO BE 150mm ABOVE TERRACE LEVEL.
 3. TOP OF FOUNDATION LEVELS.
 4. H.V. YARD TO HAVE A CLEAN, HARD, SOUND CRUSHED STONE OF A MIN 25mm NOMINAL SIZE, 100mm THICK LAYER, THIS SHOULD APPLY AFTER INSTALLATION OF ALL EQUIPMENT AND CABLES.
 5. ALL FOUNDATION H.D.BOLTS TO BE ALLIGNED FOR CASTING OF CONCRETE TO A TOLERANCE OF +2mm; FOUNDATION TOLERANCE TO BE IN ACCORDANCE WITH SABS2000 06 GRADE 11.
 6. DEPTH OF EQUIPMENT FOUNDATIONS TO BE NOT LESS THAN SHOWN ON DETAILS DRAWING AND NOT LESS THAN 300mm IN NATURAL GROUND.
 7. ALL TOP EDGES OF CONCRETE ABOVE G.L. TO HAVE 25mm CHAMFER AT 45°.
 8. ALL FOUNDATIONS TO HAVE 25mm GROUT UNDER BASEPLATES ONLY. GROUT MIX 2:1. ALL H.D.BOLTS ARE SUPPLIED WITH 2 NUTS AND 2 WASHERS. GROUT MUST BE A FEATHERED FINISH TO ALLOW WATER TO RUN FREE FROM THE BASEPLATE.
 9. STRUCTURE SHALL BE ERECTED, ALIGNED, SQUARED, PLUMBED AND LEVELLED TO AN ACCURACY SPECIFIED IN SABS 1200 H 6.2.2.C12 - CLASS 11.
 10. EQUIPMENT NOT FITTED WITH DIA.26mm OR DIA.38mm CONNECTION PRONGS MUST BE FITTED WITH TINNED DIA.26mm OR DIA.38mm BRASS PRONGS DRILLED AND TAPED TO APPROPRIATE SIZES.
 11. ALL SURFACE AREAS OF CONDUCTOR OR CONTACT AREA OF CONNECTION CLAMPS MUST BE TREATED AS DESCRIBED PRIOR TO MAKING A CLAMPED OR CRIMPED CONNECTION.
a) APPLY THIN LAYER OF NON OXIDE GREASE TO SURFACE AREA.
b) BRUSH NON OXIDE GREASED AREA THOROUGHLY WITH A CLEAN BRUSH.
c) WIPE SURFACE AREA CLEAN WITH RAG AND IMMEDIATELY APPLY A FRESH LAYER OF NON OXIDE GREASE TO CLEAN SURFACE AREA.
d) FIT CLAMP TO CONNECTOR PRONG OR CONDUCTOR AND TORQUE TO:
d.1) 8mm GALVANISED STEEL BOLTS - 15Nm.
d.2) 10mm GALVANISED STEEL BOLTS - 26Nm.
d.3) 12mm GALVANISED STEEL BOLTS - 45Nm.
d.4) 8mm S/STEEL BOLTS - 20Nm.
d.5) 10mm S/STEEL BOLTS - 35Nm.
d.6) 12mm S/STEEL BOLTS - 60Nm.
d.7) 8mm ALUMINIUM BOLTS - 10Nm.
d.8) 10mm ALUMINIUM BOLTS - 21Nm.
d.9) 12mm ALUMINIUM BOLTS - 36Nm.
12. ALL CLAMPS FROM THE TRFR MV BUSHING TO THE 11kV SA TO BE TAPED FIRST WITH SOME PUTTY TAPE AND THEN COVERED WITH P23 TAPE.
13. PLACE 3 x 150mm PVC PIPES 250mm C/C UNDER TRFR SLIPWAY.

2-WT/1279A10 CONTROL ROOM (NEW)
2-WT/1279B9 DRAINAGE LAYOUT
2-WT/1279B8 TRFR PL INTH
2-WT/1279A7 SECT DRWG CLAMP LAYOUT
2-WT/1279A6 CABLE WINDER BLOCK
2-WT/1279A5 RELAY ROOM (EXIST)
2-WT/1279A4 FOUNDATION/GEAR/HAUT LAYOUT
2-WT/1279A3 SITE PLAN
2-WT/1279A1 STATION ELECTRIC DIAGRAM
DRG NO. REFERENCE DRAWINGS

10	132kV LINE ISOL & SURGE ARRESTOR	N/A	D/P				
9	22kV FIDRS ARRANGEMENT REVISED, SCHEDULE INFO UPDATED	N/A					
8	22kV FIDRS EXTENDED, 132kV BUSBAR EXTENDED, 132kV TRFR EXTENDED, 132kV TRFR EXTENDED, 132kV TRFR EXTENDED	N/A					
7	11kV KLT FOR ADDED	N/A					
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE		

ASSET CREATION - MENLYN			
BABELGI			
132-22kV & 132-11kV SUBSTATION			
GENERAL ARRANGEMENT			
DX-4005	202	0	10



THIS DRAWING HAS BEEN CREATED ON A C.A.D. SYSTEM AND ANY AMENDMENT TO THE DRAWING MUST BE EFFECTED ONLY ON THE SAME C.A.D. SYSTEM. THE C.A.D. REFERENCE NUMBER IS DX-4005-202-0 Rev10.dgn

