

PLAN

- NOTES:
1. ALL WORK TO BE DONE IN ACCORDANCE WITH SABS1200 LATEST REVISION.
 2. ALL LEVELS TO BE SET-OUT FROM BENCH INDICATED ON SHEET 2 WITH TOP OF FOUNDATION LEVELS.
 3. TOP OF EQUIPMENT FOUNDATIONS TO BE 150mm ABOVE TERRACE LEVEL.
 4. H.V. YARD TO HAVE A CLEAN, HARD, SOUND CRUSHED STONE OF A MIN 25mm NOMINAL SZL, 100mm THICK LAYER. THIS SHOULD APPLY AFTER INSTALLATION OF ALL EQUIPMENT AND CABLES.
 5. ALL FOUNDATION HD BOLTS TO BE ALIGNED FOR CASTING OF CONCRETE TO A TOLERANCE OF +2mm. FOUNDATION TOLERANCE TO BE IN ACCORDANCE WITH SABS1200 G6 GRADE II.
 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 BASELATES ONLY. GROUT MIX 2:1 ALL HD 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 II.
 10. EQUIPMENT NOT FITTED WITH DIA.25mm OR DIA.38mm CONNECTION PRONGS MUST BE FITTED WITH FINED DIA.25mm 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) WPE SURFACE AREA CLEAN WITH RAG AND IMMEDIATELY APPLY A FRESH LAYER OF NON OXIDE GREASE TO CLEAN SURFACE AREA.
 - d) FIT CLAMP TO CONDUCTOR PRONG OR CONDUCTOR AND TORQUE TO:
 - d.1) 8mm GALVANISED STEEL BOLTS - 15Nm.
 - d.2) 10mm GALVANISED STEEL BOLTS - 28Nm.
 - d.3) 12mm GALVANISED STEEL BOLTS - 45Nm.
 - d.4) 10mm S/STEEL BOLTS - 35Nm.
 - 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 - 35Nm.
 12. ALL CLAMPS FROM THE TRER LW 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 TRER SLUWAY.

EQUIPMENT SCHEDULE

ITEM No	DESCRIPTION	DRG NUMBER	QUANTITY

eskom

DATE: / /

DATE: / /

DATE: / /

DATE: / /

SCALE: N.T.S.

THIS DRAWING IS THE PROPERTY OF Eskom

DATE: 16/09/2016

SAR ELOFF

44kV SUBSTATION

GENERAL ARRANGEMENT

DATE: 13/03/2015

PROJECT NO.:

REV

REVISION DESCRIPTION

BY

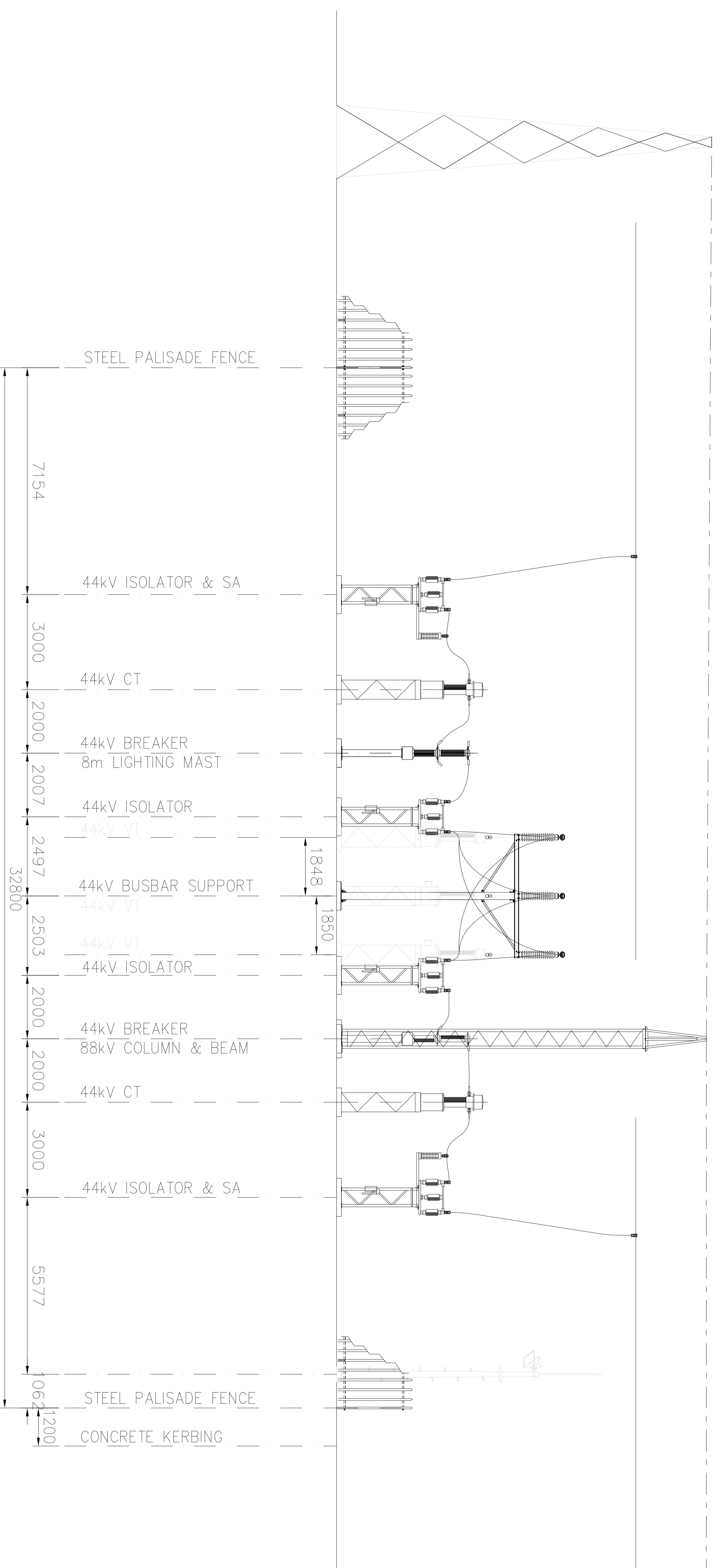
CHKD

DATE

SECTION & CLAMP LAYOUT	DATE
2-ET/15549	13/03/2015
2-ET/15549	13/03/2015
2-ET/15549	13/03/2015
2-ET/15549	13/03/2015
2-ET/15549	13/03/2015

DRG NO. REFERENCE DRAWINGS:

2-ET/15549(1) STATION ELECTRIC DIAGRAM



- NOTES:
1. ALL WORK TO BE DONE IN ACCORDANCE WITH SABS1200 LATEST REVISION.
 2. ALL LEVELS TO BE SET-OUT FROM BENCH INDICATED ON SHEET 2 WITH TOP OF FOUNDATION 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 ALIGNED FOR CASTING OF CONCRETE TO A TOLERANCE OF +2mm. FOUNDATION TOLERANCE TO BE IN ACCORDANCE WITH SABS200 (66 GRADE II).
 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 II.
 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.
 12. BRUSH NON OXIDE GREASE TO SURFACE AREA.
 13. WIRE SURFACE AREA CLEAN WITH RAG AND IMMEDIATELY APPLY A FRESH LAYER OF NON OXIDE GREASE TO CLEAN SURFACE AREA.
 14. FIT CLAMP TO CONNECTOR PRONG OR CONDUCTOR AND TORQUE TO:
 - d.1) 8mm GALVANISED STEEL BOLTS - 15Nm.
 - d.2) 10mm GALVANISED STEEL BOLTS - 28Nm.
 - 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.
 15. ALL CLAMPS FROM THE TRIP MV BUSHING TO THE HV SA TO BE TAPED FIRST WITH SOME PUTTY TAPE AND THEN COVERED WITH P23 TAPE.
 16. PLACE 3 x 150mm PVC PIPES 250mm C/C UNDER TRIP SLIPWAY.

1	44kV OUTDOOR EQUIPMENT ASSEMBLY	J.L.R.	CHKD	13/03/2015	PROJECT NO.
REV	REVISION DESCRIPTION	BY	CHKD	DATE	PROJECT NO.
Eskom					
SAR ELOFF					
44kV SUBSTATION					
SECTIONS AND CLAMP LAYOUT					
DATE	DATE	DATE	DATE	DATE	DATE
DRAWN	DATE	DATE	DATE	DATE	DATE
CHKD	DATE	DATE	DATE	DATE	DATE
SCALE : N 1 : S	PRJ: J.L.E. ROUX	SET	SHEET	REGION	
THIS DRAWING IS THE PROPERTY OF Eskom					
DATE: 16/09/2016					
2-ET/15549			6	1	

2-ET/15549	SECTION & CLAMP LAYOUT
2-ET/15549	GENERAL ARRANGEMENT
2-ET/15549	FOUNDATION/LAYOUT
2-ET/15549	LEVEL AND DRAINAGE LAYOUT
2-ET/15549	SITE PLAN
2-ET/15549	STATION ELECTRIC DIAGRAM
BIB. NO.	REFERENCE DRAWINGS