

#22/66kV YARD REFERENCE DRAWINGS

- 112/100 KEY PLAN
- 112/101 STATION ELECTRIC DIAGRAM
- 112/102 H D BOLT SCHEDULE
- 112/103 REINFORCEMENT SCHEDULE
- 112/104 FOUNDATION TRENCH & EARTH MAT LAYOUT
- 112/105 STEELWORK MARKING PLAN
- 112/106 10 MVA 66/22kV TRFR BAY LAYOUT
- 112/107 66kV FOR 1 & TRFR BAY LAYOUT
- 112/108 REACTOR 1/TRFR 11
- 112/109 22kV FOR 1 BAY LAYOUT
- 112/110 22kV V1 BAY LAYOUT

| TENSION PER CONDUCTOR | | |
|---------------------------------------|--|-----|
| 400-kV BUSBAR (2 CONDUCTORS / Ø) | | 8kN |
| 400-kV STRINGER (2 CONDUCTORS / Ø) | | 4kN |
| 50-kV BUSBAR (1 CONDUCTOR / Ø) | | 8kN |
| 50-kV STRINGER (1 CONDUCTOR / Ø) | | 2kN |
| EARTHWIRE | | 2kN |
| TRACTION UNDERPASS (2 CONDUCTORS / Ø) | | 4kN |
| 22kV TRFR FEEDER (1 CONDUCTOR / Ø) | | 6kN |

| BUSBAR CONDUCTOR SIZE | |
|-----------------------|----------------------|
| 400kV BUSBARS | 2x800mm ² |
| 132kV BUSBARS | 2x800mm ² |

NOTE:
 FT - FLOODLIGHT TOWER
 TK - TELEPHONE KIOSK
 FEK - FIRE EQUIPMENT KIOSK
 OLM - OVERHEAD LIGHTING MAST

FOR DIRECTION OF ISOLATOR BLADE OPENING & EARTH SWITCH POSITIONS SEE DRG 0.12/5573

CO ORDINATES & CONTOURS TAKEN FROM 0.12/5393 (CONTOURS AT 1m INTERVALS)

INDICATES 24m FLOODLIGHT MAST

DETAILED DESIGN NOT FOR CONSTRUCTION

| REV | REVISION DESCRIPTION | BY | CHKD | AUTH | DATE | 0.12/5571 REFERENCE DRAWINGS |
|-----|--|------|--------|----------|------------|--|
| 9 | 400V BUSBAR EXTENDED BY 3 BAYS. 400/120V TRFR 12 BAY. 120V BUSBAR, 120V FEEDERS 1, 2 & 3 AND 120V BUS COMPILER & BUSES | LA | PA | RR | 27/06/2004 | 6267 FLOODLIGHT LAYOUT 5608 CAP BANK MVA ARRGT 5672 CAP BANK MVA ARRGT 5673 BAY SCHEDULE 5674 SECURITY FENCE |
| 8 | EARTHWIRE LAYOUT ADDED AND FENCE SHOWN AROUND BUSBAR REACTOR 1 | E.G. | P.C.B. | J.A. | 01/06/2007 | 5675 FOUNDATION LAYOUT 5676 TERRACE, ROAD & DRAINAGE 5677 STATION ELECTRICAL DIAGRAM |
| 7 | PRELIMINARY STATUS REVISED SCHEDULES UPDATED. | C.B. | L.WILL | A.J.S.C. | 07/02/2006 | 5678 STEELWORK MARKING PLAN 5679 CONTOUR PLAN |
| 6 | REVISION ON CAD TITLE BLOCK UPDATED. ALL PREVIOUS REVISIONS INCLUDING 400V TRACTION FOR 8 UNDERPASS ADDED. YARD EXTENDED. TRFR 11 BAY COUPLED. | C.B. | L.WILL | A.J.S.C. | 07/09/2004 | 5680 CONTOUR PLAN |

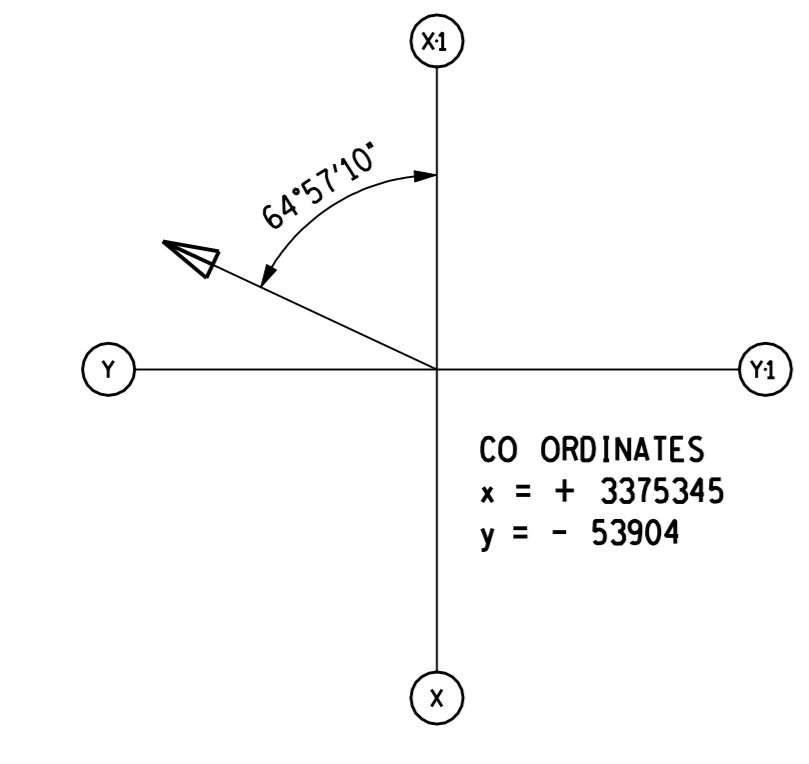
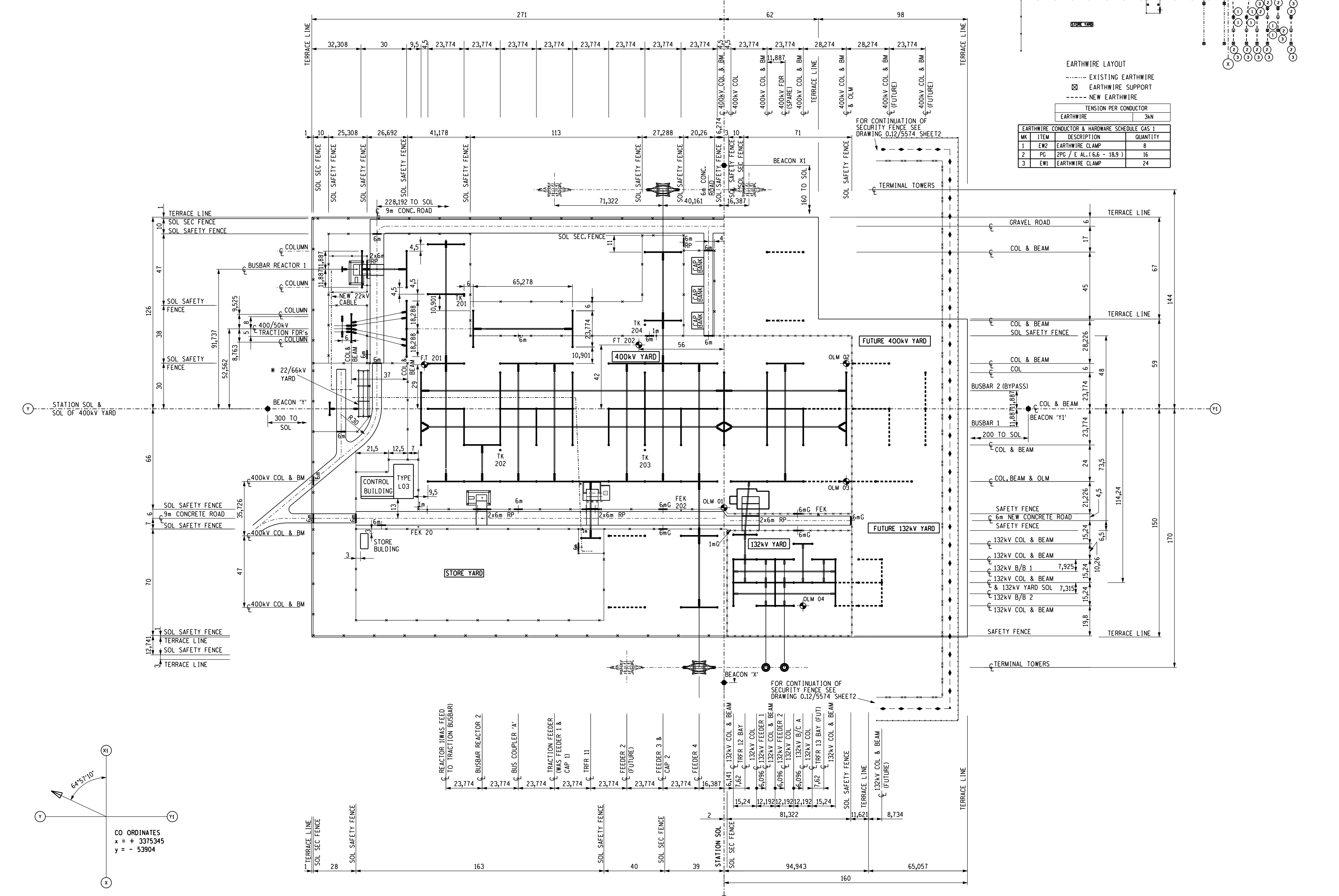
APPROVED BY: P. PEARCE DATE: 26/06/2016
 CHECKED BY: R.J.C. DATE: 26/06/2016
 DRAWN BY: Z. FOJAL DATE: 17/02/2016
 SCALE: 1:1000

ESKOM HOLDINGS LIMITED
 REG. NO. 2002/015521/06

HELIOS
 KEY PLAN

0.12/5571

SHEET NUMBER: 9



| ITEM | DESCRIPTION | QUANTITY |
|------|---|----------|
| 1 | REACTOR 1 (MVA FEED TO TRACTION BUSBAR) | 1 |
| 2 | BUSBAR REACTOR 2 | 1 |
| 3 | BUS COMPILER 'A' | 1 |
| 4 | TRACTION FEEDER (MVA FEEDER 1 & CAP 1) | 1 |
| 5 | TRFR 11 | 1 |
| 6 | FEEDER 2 (FUTURE) | 1 |
| 7 | FEEDER 3 & CAP 2 | 1 |
| 8 | FEEDER 4 | 1 |
| 9 | 132kV COL & BEAM | 16,141 |
| 10 | TRFR 12 BAY | 7,62 |
| 11 | 132kV COL | 16,096 |
| 12 | 132kV FEEDER 1 | 16,096 |
| 13 | 132kV COL & BEAM | 16,096 |
| 14 | 132kV COL | 16,096 |
| 15 | 132kV B/C A | 7,62 |
| 16 | 132kV COL | 16,096 |
| 17 | TRFR 13 BAY (FUT) | 7,62 |
| 18 | 132kV COL & BEAM | 16,096 |
| 19 | 132kV COL & BEAM | 16,096 |
| 20 | 132kV COL & BEAM | 16,096 |
| 21 | 132kV COL & BEAM | 16,096 |
| 22 | 132kV COL & BEAM | 16,096 |
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| 97 | 132kV COL & BEAM | 16,096 |
| 98 | 132kV COL & BEAM | 16,096 |
| 99 | 132kV COL & BEAM | 16,096 |
| 100 | 132kV COL & BEAM | 16,096 |