

**TRENCH, RAMP, KIOSK AND SLEEVES DETAILS PERTAINING TO 0.54/390 (STANDARD CIVIL DETAILS)**

**LEGEND**

① DETAIL 15 (SINGLE CABLE TRENCH)  
 ② DETAIL 16 (DOUBLE CABLE TRENCH)  
 ③ DETAIL 19 (1 OFF)  
 ④ DETAIL 20 (1 OFF)  
 ⑤ DETAIL 21 (1 OFF)  
 ⑥ DETAIL 22 (1 OFF)  
 ⑦ DETAIL 23 (1 OFF)  
 ⑧ DETAIL 24 (1 OFF)  
 ⑨ DETAIL 25 (1 OFF)  
 ⑩ DETAIL 26 (1 OFF)  
 ⑪ DETAIL 27 (1 OFF)  
 ⑫ DETAIL 28 (1 OFF)  
 ⑬ DETAIL 29 (1 OFF)  
 ⑭ DETAIL 30 (1 OFF)  
 ⑮ DETAIL 31 (1 OFF)  
 ⑯ DETAIL 32 (1 OFF)  
 ⑰ DETAIL 33 (1 OFF)  
 ⑱ DETAIL 34 (1 OFF)

⑳ DETAIL 42 AND 43 (SLEEVE TYPES FOR EARTHING AND/OR CABLES 15 OFF)  
 ㉑ TRIPLE TRENCH RAMP: 1 OFF (TOTAL: 21 OFF)

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 ㉑ TRIPLE TRENCH RAMP: 1 OFF (TOTAL: 21 OFF)

**SCHEDULE OF MAIN BASES 132 kV YARD**

ITEM	MARK	TYPE	No OFF	DRG No 0.54/	REMARKS
COLUMN	C87-C98, C102-C127	NC9	38	3996	LOCATED ON THIS DRAWING
	C85, C86, C128, C129	NC1 (C75A1)	4	3989	
B/S SUPPORT	B5324-B5395	-	72	4319	
OP FLOOR LIGHT MAST	OLM19, OLM20	24m	2	4659	

**SCHEDULE OF MAIN BASES 400 kV YARD**

ITEM	MARK	TYPE	No OFF	DRG No 0.54/	REMARKS
COLUMN	C17, C18, C54-C51, C59-C63	NC1	22	3996	LOCATED ON THIS DRAWING
	C19, C20, C21, C24, C25, C30, C31, C38, C40, C41, C44, C46, C47	NC9	6 + 1	3996	
B/S SUPPORT	B501-B516, B5103-B5108, B5107-B5138, B5101-B5151	-	117	4726	
OP FLOOR LIGHT MAST	OLM10, OLM12, OLM13, OLM14, OLM16-OLM18	24m	9	4659	

**SCHEDULE FOR EQUIPMENT BASES 132 kV YARD**

TYPE	DRG No 0.54/	No OFF	REMARKS
MEDIUM EQUIP SUPP FOUNDATION (CT)		9	FOR LOCATION SEE BAY LAYOUT SCHEDULE MOO21P05-SE-E13 SHEETS 20, 31, 40
MEDIUM EQUIP SUPP FOUNDATION (CB)		6	
MEDIUM EQUIP SUPP FOUNDATION (ISOL)		6	
MEDIUM EQUIP SUPP FOUNDATION (PG ISOL)		9	
MEDIUM EQUIP SUPP FOUNDATION (VT)		3	
MEDIUM EQUIP SUPP FOUNDATION (ES)		2	
MEDIUM EQUIP SUPP FOUNDATION (PI)		16	
JUNCTION BOX FOUNDATION	4713 SHT 1	1	
JUNCTION BOX FOUNDATION	4713 SHT 5	1	
PLUG BOXES PB304	710	1	

**SCHEDULE FOR EQUIPMENT BASES 400 kV YARD**

TYPE	DRG No 0.54/	No OFF	REMARKS
LARGE EQUIP SUPP FOUNDATION	4368	12	FOR LOCATION SEE BAY LAYOUT SCHEDULE MOO21P05-SE-E13 SHEETS 3, 10, 16, 19
S/A & FIRE WALL FOUNDATION	4169	4	
MEDIUM EQUIP SUPP FOUNDATION (CB)		12	
MEDIUM EQUIP SUPP FOUNDATION (ISOL)		30	
MEDIUM EQUIP SUPP FOUNDATION (PG ISOL)		12	
MEDIUM EQUIP SUPP FOUNDATION (CVT)		3	
MEDIUM EQUIP SUPP FOUNDATION (ES)		3	
MEDIUM EQUIP SUPP FOUNDATION (PI)		30	
JUNCTION BOX FOUNDATION	4713 SHT 5	4	
JUNCTION BOX FOUNDATION	4713 SHT 6	1	
TDB	3568	1	
TRFR PLINTH 14	MOO21P05-SE-E41	1	
PLUG BOXES PB104	710	1	
FIRE EQUIP, KIOSK FEK1-FEK2	390 SHT 56	1	
AUXILIARY TRFR FOUNDATION	2089	1	
TERTIARY COLUMN FOUNDATION	316 SHT 1	2	

**SCHEDULE FOR EQUIPMENT BASES 400 kV YARD (PHASE I)**

TYPE	DRG No 0.54/	No OFF	REMARKS
CIRCUIT BREAKER	8279	6	GROUPED (SEE NOTES)
ISOLATOR FOUNDATION	8281	7	GROUPED (SEE NOTES)
PANTOGRAPH ISOLATOR FOUNDATION	5829	24	400kV PANTOGRAPHS
EARTH SWITCH FOUNDATION	6432	6	GROUPED (SEE NOTES)
LARGE EQUIP SUPP FOUNDATION	4368	18	CT
S/A & FIRE WALL FOUNDATION	4726	6	REACTOR FIREWALL & TRFR BAY S.A.
MEDIUM EQUIP SUPP FOUNDATION (PI)		35	FOR LOCATION SEE BAY LAYOUT SCHEDULE 0.18/191713
MEDIUM EQUIP SUPP FOUNDATION (L, T)		4	
MEDIUM EQUIP SUPP FOUNDATION (CVT)		12	
MEDIUM EQUIP SUPP FOUNDATION (SA)		12	
LABEL SUPPORT FOUNDATION	401	9	
JUNCTION BOX FOUNDATION	4713	7	
TRFR PLINTH 12	0.18/31687 SHT 1 & 2	2	
TRFR PLINTH 13	0.18/31688	1	
TRFR PLINTH FEEDER 21	0.18/31688	1	
TRFR PLINTH FEEDER 21	0.18/31688	1	
PLUG BOXES PB101 - 103	710	3	
FIRE EQUIP, KIOSK FEK1-FEK2	390 SHT 56	2	

**SCHEDULE FOR EQUIPMENT BASES 132 kV YARD (PHASE I)**

TYPE	DRG No 0.54/	No OFF	REMARKS
CIRCUIT BREAKER	7511	5	
ISOLATOR	7512	10	CONVENTIONAL & IN LINE
EARTH SWITCH	8293	6	GROUPED (SEE NOTES)
MEDIUM EQUIP SUPPORT (PAD TYPE)	4368	6	SA
		6	VT
JUNCTION BOX	4713	5	FOR LOCATION SEE BAY LAYOUT SCHEDULE 0.18/191713
PLUG BOXES PB301-303	710	3	

**SCHEDULE OF MAIN BASES 400 kV YARD (PHASE II)**

ITEM	MARK	TYPE	No OFF	DRG No 0.54/	REMARKS
COLUMN	C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C22, C23, C25, C26 & C28	NC2	15	3996	
	C15, C24, C27 AND (C16)	NC9	4	3996	
B/S SUPPORT	B519-B533, B573-B590, B597-B5102, B5127-B5144, B5151-B5156, B591-B596, B5145-B5150	-	63	4726	
FLOOD LIGHT	OLM 1	24m	1	4659	

**SCHEDULE OF MAIN BASES 132 kV YARD (PHASE I)**

ITEM	MARK	TYPE	No OFF	DRG No 0.54/	REMARKS
400kV COLUMN	C41, C44 & C47	NC9	3	3996	
132kV COLUMN	C32-C36, C40, C42, C43, C45, C46 & C50-C51	RC4	21	4316	
B/S SUPPORT	B5210-B5218, B5222-B5248, B5252-B5251, B5276-B5284, B5318-B5323, B5288-B5314, B5275-B5277, B5249-B5251, B5289-B5291, B5315-B5317	-	84	4319	
		-	12	7852	

**TRENCH DETAILS TO DRAWING 0.54/390**

- ① DETAIL 15
- ② DETAIL 19
- ③ DETAIL 22
- ④ DETAIL 22A
- ⑤ DETAIL 23A
- ⑥ DETAIL 21
- ⑦ REFER TO CONTROL BUILDING PLAN
- ⑧ DETAIL 76 & 0.54/4713 SHT 1
- ⑨ DETAIL 37
- ⑩ DETAIL 16
- ⑪ DETAIL 17
- ⑫ DETAIL 23
- ⑬ DETAIL 37
- ⑭ DETAIL 34A
- ⑮ DETAIL 24
- ⑯ DETAIL 24
- ⑰ DETAIL 34
- ⑱ DETAIL 34B

**SCHEDULE OF MAIN BASES TERTIARY BAYS (PHASE I)**

TYPE	DRG No 0.54/	No OFF	REMARKS
TERTIARY COLUMN FOUNDATION		316	4
AUXILIARY TRANSFORMER		2089	2
TRFR DISTRIBUTION BOARD		3568	2

**DISBUR EARTHING MATERIAL SCHEDULE**

ITEM	QUANTITY	UNIT
CRIMPET 0.54/393 SHEET 1 NOTE 5	1048	SHEET
CLAMP 0.54/393 SHEET C6	900	SHEET
# 10 Cu ROD	8500	# 10 Cu ROD

**MAIN EARTHING MATERIAL SCHEDULE**

ITEM	QUANTITY	UNIT
CRIMPET 0.54/393 SHEET 1 NOTE 5	950	SHEET
CLAMP 0.54/393 SHEET C6	450	SHEET
# 10 Cu ROD	10500	# 10 Cu ROD

- NOTES:**
- ALL CIVIL WORKS TO COMPLY WITH S.A.B.S 1200.
  - FOR STANDARD EARTHING SPEC SEE 0.54/393.
  - REFER TO 0.54/390 FOR STANDARD CIVIL DETAIL.
  - CABLE TRENCH SHOWN AS THUS:
  - FOR EQUIPMENT FOUNDATION LAYOUT SEE BAY LAYOUT SCHEDULE 0.37/5223
  - ARROW SHOWN ON BAY (E) THIS --- INDICATES ORIENTATION OF EQUIPMENT FOUNDATIONS WHEN LINED UP WITH SIMILAR ARROW ON BAY LAYOUT SCHEDULE.
  - REFER TO DRG 0.31/5200 FOR SECURITY FENCE SETTING OUT DIMENSIONS
  - FOUNDATIONS INDICATED AS BEING GROUPED TO BE IN ACCORDANCE WITH S.A.B.S 1200.
  - SEE BAY LAYOUT SCHEDULE 0.18/191713 FOR EARTHING OF EQUIPMENT
  - EARTHING MATERIAL TO BE CONFIRMED AFTER TERRACE CONSTRUCTION

**FINAL DESIGN FOR CONSTRUCTION**  
 ORIGINAL DRG #: 0.18/19711 REV 5  
 CONCEPT DRG #: N/A  
 DETAIL DRG #: MOO21P05-SE-D8 REV 1

<p>THIS IS DELETED TO ACCOMMODATE CHANGES TO THE BAY LAYOUT SCHEDULE. QUANTITY UPDATED ACCORDING TO LATEST COLUMN FOUNDATION NUMBERS UPDATED.</p>	<p>KEY PLAN          E3 STATION ELECTRIC          MOO21P05-SE-E5</p>
<p>APPROVED BY:          R Ramnarain          DATE: 15/08/2025</p>	<p>ESKOM HOLDINGS SOC LTD          Reg No 2002/015527/30</p>
<p>CREATED BY:          DATE: 15/08/2025</p>	<p><b>MOOKODI FOUNDATION AND TRENCH 400/132kV</b></p>
<p>DATE: 07/08/2025</p>	<p>SHEET NUMBER: 0          REVISION: 0</p>
<p>SCALE: 1:1000</p>	<p>MOO21P05-SE-E5</p>