

STAGE 2: 400kV
BUSBAR EXTENDED,
DIAMETER GC
ADDED, FERRUM FOR
BAY EQUIPPED

STAGE 1: 400kV
DIAMETER GB
EXTENDED, ARIES
FDR BAY EQUIPPED

NOTES:

1. OPERATIONAL FLOODLIGHTING ELECTRICAL INSTALLATION WORK SHALL BE IN ACCORDANCE WITH:
 - 1.1. TECHNICAL SPECIFICATION
 - 1.2. SANS 10142
 - 1.3. SANS 10198
2. POWER CABLES SHALL FOLLOW CABLE ROUTE AS SHOWN. WHEN LEAVING THE CABLE TRENCHES, THE CABLE SHALL PASS BELOW THE TRENCH WALL FOUNDATION
3. POWER CABLES FOLLOWING ROUTES OUTSIDE THE CABLE TRENCHES SHALL BE BURIED AT A MINIMUM OF 500mm BELOW THE FINISHED TERRACE LEVEL
4. ROUTE MARKERS SHALL BE USED TO INDICATE ROUTE DEVIATIONS FOR BURIED CABLES IN ACCORDANCE WITH DRG 0.00/1286. POSITION INDICATED BY \textcircled{M}
5. POWER CABLES SHALL BE LABELLED IN ACCORDANCE WITH DRG 0.00/1290. CABLE NUMBERS ARE INDICATED ON DRAWING & IN CABLE SCHEDULE
6. POWER CABLES SHALL FOLLOW CABLE TRENCHES INSIDE CONTROL BUILDING
7. 400/230V AC DB1 LOCATION & SIZE NOT TO SCALE
8. REFER TO FOUNDATION, TRENCH & EARTHMAT LAYOUT FOR THE EXACT LOCATION OF OPERATIONAL FLOODLIGHTING MASTS
9. 400/230V AC DB1 SHALL BE EARTHED USING A 10mm DIAMETER BARE COPPER EARTH WIRE. THIS EARTH WIRE SHALL BE CONNECTED TO THE EXISTING EARTH CONDUCTOR WITHIN THE CABLE TRENCHES INSIDE THE CONTROL BUILDING
10. FOR DETAILS OF FLOODLIGHT MAST AND FOUNDATION REFER TO DRAWINGS 0.54/4658 AND 0.54/4659 RESPECTIVELY.

CABLE SCHEDULE FOR OPERATIONAL F/LIGHTING LV RETICULATION					
CABLE No	CABLE TYPE	FROM	TO	ESTIMATED LENGTH (m)	ACTUAL LENGTH (m)
DB1.LJB1	BVX4HCV	DB1	LJB1	220	
LJB1.OLM05	BVX4HCV	LJB1	OLM05	20	
LJB1.OLM06	BVX4HCV	LJB1	OLM06	100	
DB1.LJB2	BVX4HCV	DB1	LJB2	170	
LJB2.OLM03	BVX4HCV	LJB2	OLM03	20	
LJB2.LJB3	BVX4HCV	LJB2	LJB3	40	
LJB3.OLM04	BVX4HCV	LJB3	OLM04	50	
LJB3.LJB4	BVX4HCV	LJB3	LJB4	60	
LJB4.OLM01	BVX4HCV	LJB4	OLM01	50	
LJB4.OLM02	BVX4HCV	LJB4	OLM02	50	
DB1.LJB5	BVX4HCV	DB1	LJB5	120	
LJB5.OLM07	BVX4HCV	LJB5	OLM07	20	
LJB5.OLM08	BVX4HCV	LJB5	OLM08	130	

LEGEND

- \odot - 24m MAST
- - CABLE TAG DETAIL
- \textcircled{M} - CABLE ROUTE MARKER
- OLMXX - MAST NUMBER
- XXXX.XXXX - CABLE ROUTE NUMBER
- LJBX - IP68 'PRATLEY' TYPE CABLE JUNCTION BOX IN TRENCH

REV	REVISION DESCRIPTION	DRAWN	CHKD	AUTH	DATE	REFERENCE DRAWINGS
APPROVED BY						Eskom Holdings SOC Ltd Reg No 2002/015527/30
DATE 18/09/2023						
CHECKED BY						UPINGTON MTS OPERATIONAL FLOODLIGHTING CABLE ROUTE AND MAST LOCATION LAYOUT
DATE 18/09/2023						
DRAWN BY						SHEET NUMBER 1
DATE 18/09/2023						
SCALE	SOLP21P05-SE-E44					REVISION 0