



- NOTES:
- EARTH ELECTRODES ARE TO BE PLACED DIRECTLY BELOW CENTERLINE OF OVERHEAD CONDUCTORS.
 - COMBINED EARTH ELECTRODES AND POLE FOOTING EARTH RESISTANCE TO BE 30 OHM MAX WHEN ALL MEN AND CMEN CONNECTIONS ARE REMOVED.
 - COMBINED EARTH GRID RESISTANCE IS TO BE 1 OHM MAX WHEN ALL MEN AND CMEN CONNECTIONS ARE MADE.
 - IF ABOVE VALUES CAN NOT BE ACHIEVED CONTACT THE PROJECT MANAGER.
 - THIS ARRANGEMENT IS TO BE USED WHERE SURFACE SOIL RESISTIVITY (TEST ELECTRODE SEPARATION IS 1 METRE) IS MORE THAN 200 OHM/M AND LESS THAN 350 OHM/M.
 - USE 4M OF 70SQMM YELLOW/GREEN INSULATED CABLE (ITEM 2)FROM EARTH BOLT ON THE POLE TO BARE COPPER 70SQMM EARTHING CABLE (ITEM 4). DISTANCE FROM BASE OF POLE TO CONNECTION POINT SHALL BE 1 METRE.
 - AS AN ALTERNATIVE TO DRIVING A EARTH ROD IN TO THE GROUND, A MINIMUM DIAMETER CAN BE BORED INTO THE GROUND TO A DEPTH OF 1.5 METERS. ITEM 4 SHALL BE LOWERED IN TO THE FULL DEPTH OF THIS HOLE. BACKFILLING IS TO BE AS PER NOTE 7 IN S01-02-03-13.
 - REFER TO S01-04-04-01 PWC PROCEDURE 'LINE/SERVICE POLE INSTALLATION - CIVIL WORKS' FOR THE REQUIREMENTS & INSTALLATION OF POLE CONCRETE FOUNDATIONS.
 - TWO INDEPENDENT EARTH CONNECTORS OR AN EXOTHERMIC EARTHING WELD MUST BE USED ON ALL NEW JOINTS AND TERMINATIONS. LEGACY POLE DESIGNS MAY REQUIRE ADDITIONAL EARTHING HOLES TO BE DRILLED TO ACHIEVE THIS DESIGN.
 - CONNECTIONS TO THE GROUNDING PLATE ARE TO BE 45NM AND TO THE STRUCTURE 70NM. DO NOT USE RATTLE GUN ON GROUNDING PLATE BOLT. ONLY USE TORQUE WRENCH OR YOU WILL STRIP THE BRASS BOLT. (ALL SURFACES TO BE CLEANED).

11	2	M12 BOLT & WASHER REPLACEMENT ONLY	505176	S01-01-05-10
10	2	GROUND BOND, EARTHING, PLATE 4M TAIL KIT	505168	S01-01-05-10
9	2	M12 GALV. STEEL SPRING WASHER	239616	S01-01-04-43
	2	M12 GALV. STEEL FLAT WASHER	400832	S01-01-04-43
	2	M12x40 GALV. STEEL BOLT & NUT	503669	S01-01-04-43
7	24	CONNECTOR, COMP., Cu, 'C' PROFILE, 70-70 SQ.MM	255786	S01-01-05-08
6	2	ANTI-THEFT EARTHING CABLE	505169	S01-01-05-10
5	30m	MARKER TAPE	6569	S02-01-08-05
4	40m	CONDUCTOR, BARE, COPPER, 70 SQ.MM	9803	S01-01-05-05
3	20	CONNECTOR, COMP., Cu, '6' PROFILE, 14 MM-70 SQ.MM	257394	S01-01-05-08
1	10	EARTH ROD, SS316, 14MM DIA.	414060	S01-01-05-01
ITEM	QTY.	DESCRIPTION	ITEM NUMBER	DRAWING REF.

MATERIAL SCHEDULE

14	RELOCATED EARTHING CONNECTION POINTS TO THE POLE UPDATED ITEM 6 & ADDED ITEM 10,11. UPDATED NOTES ADDED 11.ADDED DETAIL 3	C.C.	AUG'25	B.B.	B.V.
13	CORRECTED NUMBER IN NOTE 8 TO 15 METERS	B.B.	DEC'24	B.B.	B.V.
12	CORRECTED SPELLINGS, ADDED DWG REF FOR ITEMS 4 & 6. REMOVED NOTE 7 & ITEM 8 ADDED DOUBLE INDEPENDENT CONNECTIONS & NOTE 10.	A.N.	SEP'21	A.N.	B.V.
11	INCLUDE ITEM NUMBER FOR ITEM 8	C.C.	JAN'21	B.V.	B.C.
10	TITLEBLOCK & DRAWING NUMBERS FORMATTED	K.T.	JAN'19	C.C.	C.C.
9	ITEM 9 & 10 ADDED, NOTE 9 ADDED	K.T.	JUN'16	I.B.	B.C.
8	MATERIAL SCHEDULE UPDATED	A.T.	JAN'15	I.B.	B.C.
7	NOTES UPDATED, EARTH STAKE DEPTH ADDED GAL PIPE ADDED	C.M.	SEP'10	S.C.	S.C.
NO	DESCRIPTION	DRN	DATE	CKD	APPD
AMENDMENTS					



DES	M. BOCK	POWER STANDARD DRAWING			
DRN	A. SCHMID	EARTHING GENERAL ARRANGEMENT - TYPE 2 EARTHING ELECTRODES			
CKD	M. BOCK				
APPD	-				
SCALE	NTS				
ISSUED	AUG'03	A3	DRAWING NUMBER	S01-02-03-12	<div><div>14</div></div>
ALL DIM. IN mm					
DRAFTING STANDARD TO A S.1100		CAD PRODUCT - DO NOT AMEND MANUALLY			AMD