

NOTES:

- AUGER DIAMETER TO BE USED SHOULD NOT BE GREATER THAN 150mm - BORE DEPTH IS 3m
- THEN TOP UP WITH EXISTING SOIL
- CONTACT WITH THE LOCAL GRID EARTH
- UNIT FOUNDATION.
- BUS BAR.
- EASEMENT.
- 9. REFER TO S02-02-06-34 FOR RMU FOUNDATION DETAILS. LABELLED "GRID" WITH CRITCHLEY TYPE LABELS.

	MATERIAL SCHEDULE							
	ITEM	QTY	(DESCRIPTION	ITEM NUMBER	DRG REF			
	1 AR		70sq.mm BARE COF	PPER CONDUCTOR.	9803	S01-01-05-05		
	3	AR	EARTH ROD, SS316	o, 14mm DIA	414060	S01-01-05-01		
	4	AR	COMPRESSION CON	NECTOR, "C" PROFILE , 70-70 sq.mm	255786	S01-01-05-08		
	5	AR	COMPRESSION CON	NECTOR, "6" PROFILE, 70 sq.mm	257394	S01-01-05-08		
	6	4	EARTHING COMPOL	IND.(BAG)	10876	-		
	7	4	EQUIPOTENTIAL EA GALVANISED, 4001	ARTHING MASONRY WIRE MESH, MM X 7.2MM DIA	288415	-		

DES	L. FUU		POWER	STANDARI	J DRAWIN
DRN	A.TAYLOR	EARTHING (GREENFIELD)			
CKD	B.CHEUNG				
APPD	B.CHEUNG				
SCALE	N.T.S.			LIAILS	
ISSUED	MAR'14	۸ Z	DRAWING NUMBER S02	C00 04	00 05 40
ALL DIM.	IN mm	AJ		202-04	2-05-12
DRAFTING STANDARD TO A.S.1100		CAD PRODUCT	- DO NOT AM	END MANUALLY	

1. MINIMUM EARTHING FOR RING MAIN UNIT CONSISTS OF FOUR EARTH ELECTRODES IN THE EASEMENT AND IF REQUIRED THREE EARTH ELECTRODES IN THE CABLE ENTRY TRENCH. 2. IN THE EASEMENT: FOUR BORE HOLES TO BE DRILLED AT CORNERS FOR EACH HOLE:

- EARTH ELECTRODE SHALL BE MADE FROM EITHER BARE 70 sg.mm COPPER CONDUCTOR OR 70 sg.mm BARE COPPER CONDUCTOR WITH AN EARTH STAKE ATTACHED VIA TWO PROFILE "6" COMPRESSION CONNECTOR BEFORE LOWERING THE STAKE INTO THE BORE HOLE. ATTACH THE 70 sg.mm COPPER CONDUCTOR TO THE EARTH GRID AS SHOWN IN DETAIL 1. BACKFILL BORE HOLE FIRST WITH WATERED SLURRY MIXTURE OF ONE BAG OF EARTHING COMPOUND (ITEM NUMBER 400915 REFER TO DWG \$02-01-05-02) AND SOIL AT 1:1 RATIO,

3. IF REQUIRED TO ACHIEVE EARTHING REQUIREMENT NOTE 1, THREE ADDITIONAL EARTH ELECTRODES ARE TO BE INSTALLED AT THE BOTTOM OF THE CABLE ENTRY TRENCH WITH A DISTANCE OF 6m BETWEEN ELECTRODES AND TO A DEPTH OF 3m. A HAMMER CAN BE USED TO DRIVE CONNECTED EARTH RODS INTO THE GROUND, OR ALTERNATIVELY THE EARTH ELECTRODES CAN BE AS PER NOTE 2. DO NOT LET ANY OTHER EARTHING SYSTEM MAKE

4. EQUIPOTENTIAL EARTH MESH OF 400mm WIDTH MINIMUM TO BE LAID ACROSS USING CONCRETE MESH CHAIRS AND CONNECTED TO FOUR EARTH ELECTRODES IN THE EASEMENT AS SHOWN BEFORE FORMING THE CONCRETE APRON FROM THE EASEMENT BOUNDARY TO THE RING MAIN

5 CABLE EARTH SCREENS TO BE CONNECTED TO EARTH BUS BAR IN FRONT OF ENCLOSURE. 6. M.E.N. EARTH (FROM DISTRIBUTION SYSTEM) MUST NOT BE BROUGHT INTO ELECTRICAL CONTACT WITH FOUNDATION SO THAT TESTING CAN CAN BE CARRIED OUT. M.E.N SHALL BE IN CONDUIT WHERE PASSING THROUGH SUBSTATION FOUNDATIONS. M.E.N. CONDUCTOR SHALL BE LABELLED "MEN" WITH CRITCHLY LABEL WHERE IT IS ATTACHED TO THE EARTH

7. TRAFFIC BOLLARDS, IF REQUIRED, SHALL BE CONNECTED TO PERIMETER EARTHING CONDUCTOR BY 70 sg.mm COPPER CONDUCTOR WHICH WILL BE SET INSIDE THE POST AND LUGGED OFF ONTO A BARRIER BOLT. BOLLARDS ONLY TO BE EARTHED IF LOCATED WITHIN

8. EARTH BUS BAR TO BE LOCATED IN THE FRONT OF THE RMU ENCLOSURE. EARTH BUS BAR SHALL BE 50x6 COPPER BAR WITH 16 HOLES 14mm IN DIAMETER SPACED 75mm APART AT CENTERS. ALL BOLTS SHALL BE M12 CLASS 8.8 STAINLESS STEEL TIGHTENED TO 35-40Nm.

10. WHERE THE LOCAL GRID EARTH IS CONNECTED TO THE EARTH BUS BAR IT SHALL BE

JG

ER MINEX

