



- NOTES:**
- ACTUAL OUTLINE DIMENSIONS MAY BE LESS THAN SHOWN ON THIS DRAWING.
 - INSULATORS SHOWN ARE INDICATIVE AND ARE SUBJECT TO CHANGE DEPENDING ON THE PROJECT.
 - FOR VERY LONG SPANS, 2 CROSSARMS MAY BE USED – ONE ON EACH SIDE OF POLES.
 - POLESET HEIGHT IS MEASURED FROM GROUNDLINE AT THE CENTRE OF THE STRUCTURE.
 - THE NOMINAL POLE LENGTH OF ESB 110 kV POLES RANGE FROM 16 m TO 24 m (CORRESPONDING ACTUAL POLE LENGTHS ARE 16.31 m AND 24.31 m) THE HEIGHT OF ESB POLESETS ABOVE GROUND (AS DEFINED IN NOTE 4) USING THESE POLES RANGE FROM 15.7 m TO 23 m. DEPENDING ON THE POLE LENGTH USED AND POLE EMBEDMENT DEPTH. IN SOME CASES (FOR EXAMPLE, WHERE THE LINE CROSSES BELOW ANOTHER LINE) POLES SHORTER THAN 16 m MAY BE USED.
 - FOUNDATION DETAILS WILL VARY DEPENDING ON THE GROUND CONDITIONS ENCOUNTERED. FOUNDATIONS WILL TYPICALLY BE DIRECTLY EMBEDDED TO DEPTHS RANGING FROM 2.3 m TO 3.3 m WITH 3 m LONG SLEEPERS USED BELOW GROUND. HOWEVER, IN POOR GROUND, PILES, IMPORTED BACKFILL, GROUND REINFORCEMENT AND/OR LARGER/DEEPER FOUNDATIONS MAY BE REQUIRED. WHERE STAYS ARE REQUIRED DUE TO POOR GROUND CONDITIONS, THE POLES MAY ONLY BE EMBEDDED 1.5 m AND SUPPORTED BY RAFTS.
 - THE LOWER VALUE IN THE RANGE OF POLESET HEIGHTS SHOWN ON THE DRAWING INDICATES THE MAXIMUM POSSIBLE HEIGHT ABOVE GROUND FOR THE SHORTEST ESB TRANSMISSION POLE. SIMILARLY, THE HIGHER VALUE IN THE SAME RANGE INDICATES THE MAXIMUM POSSIBLE HEIGHT ABOVE GROUND FOR THE LONGEST ESB TRANSMISSION POLE. THESE VALUES CONSIDER MAXIMUM TOLERANCES ON POLE LENGTH, MAXIMUM TOLERANCES ON POLE INSTALLATION, MINIMUM POSSIBLE POLE EMBEDMENT DEPTHS AND THE IMPACT OF SLOPING GROUND. WHERE MINIMUM TOLERANCES OF POLE LENGTH AND/OR INSTALLATION ARE CONSIDERED AND/OR WHERE POLES ARE INSTALLED WITH DEEPER EMBEDMENT DEPTHS ON FLAT GROUND, THE HEIGHT OF THE SHORTEST ESB POLE WILL BE LOWER THAN THE LOWER VALUE IN THE RANGE SHOWN ON THE DRAWING.
 - ON SLOPING GROUND, IN ORDER TO KEEP THE CROSSARM LEVEL, THE TWO POLES WILL BE EMBEDDED AT DIFFERENT DEPTHS AND/OR DIFFERENT POLE LENGTHS WILL BE USED FOR EACH POLE. IN SUCH CASES, THE HEIGHT ABOVE GROUND OF THE DOWNHILL POLE WILL BE HIGHER THAN THE POLESET HEIGHT DEFINED IN NOTE 4 AND THE HEIGHT ABOVE GROUND OF THE UPHILL POLE WILL BE LOWER THAN THE POLESET HEIGHT.
 - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

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	2 - HEIGHT DIMENSIONS AND NOTES UPDATED, FOUNDATION ADDED.		-	-	-	-	DRAWN A.Scally	PRODUCED A.Brandini	VERIFIED D.King	APPROVED P.Ennis	APPROVAL DATE 03/12/2024			
	1 - UPDATED CROSSARM CHANEL & POLE DIMENSIONS		AS	DC	DT	PE		CLIENT REF	TC206667		No. OF SHTS -	SIZE A3	SCALE 1/100	
	0 09/12/12 INITIAL ISSUE		AK	PE	FA	PE								
	Rev.		Date	Revision Description			Drn.	Prod.	Ver.	App.	Drawing Title			
Purpose of issue - Preliminary unless indicated Client Approval <input type="checkbox"/> Planning <input checked="" type="checkbox"/> Tender <input type="checkbox"/> Construction <input type="checkbox"/> As-built <input type="checkbox"/>											110 kV LINES OUTLINE DRAWING FOR PLANNING RL1, RL2 & RL3 SUSPENSION WOOD POLESET WITHOUT EARTHWIRE			
Client		ESB NETWORKS												
Project		Materials												
Contract		Production Unit Networks Engineering									Drawing Number PG567-D004-483-001-002			