



NOTES :

1. THE FOLLOWING INFORMATION IS OBTAINED FROM THE PROJECT DESIGN DRAWINGS:
 - a. POLE LENGTH AND STRENGTH.
 - b. SPECIAL FOUNDATION REQUIREMENTS.
 - c. POLE EMBEDMENT DEPTH.
 - d. CONDUCTOR SIZE.
 - e. VARIATIONS TO STANDARD CROSSARM REQUIREMENTS.
 - f. STAY REQUIREMENTS.
 - g. DEVIATION ANGLE.
2. THE MAXIMUM LINE DEVIATION ANGLE TO BE CONSTRUCTED ON THIS ARRANGEMENT IS TO BE DETERMINED BY THE LINE DESIGNER.
3. ALL BOLTS AND INSULATOR PINS PASSING THROUGH TIMBER ARE TO BE COATED WITH GRAPHITE GREASE.
4. POLES SHALL BE DRILLED, SCARFED AND DRESSED ON SITE. DRILLING AND SCARFING TO BE TREATED WITH APPROVED PRESERVATIVES.
5. IF THE CONDUCTOR DEVIATES AT THE INSULATOR, USE THE ANGLE TYPE CONDUCTOR TIE ARRANGEMENT, OTHERWISE USE THE INTERMEDIATE TYPE CONDUCTOR TIE ARRANGEMENT AS SHOWN ON DRG: 514038.
6. USE THE 33/920 AERODYNAMIC PIN INSULATOR ARRANGEMENT WHERE THE CONSTRUCTION IS LOCATED WITHIN 1km OF THE COAST OR IN A VERY HIGH POLLUTION AREA.
7. WHEN DESIGNING UNDERBUILT CIRCUITS ON A 33kV STRUCTURE, THE POSSIBLE USE OF LIVE LINE WORKING PROCEDURES MUST BE CONSIDERED WHEN NOMINATING THE CIRCUIT SEPARATION TO ALLOW A MINIMUM CLEARANCE OF 2500mm IF REQUIRED.
8. POLE STEPS SHOULD ONLY BE INSTALLED ON POLES WHERE ACCESS FOR NORMAL MAINTENANCE VEHICLES CANNOT BE MAINTAINED FOR THE LIFE OF THE POLE. IF POLE STEPS ARE INSTALLED, THEY ARE TO COMPLY WITH THE REQUIREMENTS OF NETWORK STANDARD NS128.
9. REFER TO DESIGNER SAFETY REPORT D22/313471 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.

ITEM	DESCRIPTION	DRG. No	QTY
16	STEP - POLE, SCREW-IN (SEE NOTE 8)	250144	A/R
15	TIE - CONDUCTOR, HIGH VOLTAGE, SUPPORT ARRANGEMENT (SEE NOTE 5)	514038	4m
14	INSULATOR - 33kV, AERODYNAMIC, (33/920) AND PIN ARRANGEMENT (SEE NOTE 6)	514006	3
	INSULATOR - 33kV, AERODYNAMIC, (33/710) AND PIN ARRANGEMENT (SEE NOTE 6)	513998	
13	BLOCK - GAIN, ALUMINIUM, 100mm (S/C: 146274)		1
12	WASHER - FLAT, M20, GALVANISED	518081	1
11	WASHER - CONICAL, M20, GALVANISED	518082	1
10	WASHER - SQUARE, 75x75x6mm, GALVANISED (Ø22mm HOLE)	518081	2
9	BOLT & NUT - M20, HEX., GALVANISED (LENGTH TO SUIT POLE)	515466	1
8	WASHER - CONICAL, M12, GALVANISED	518082	1
7	WASHER - FLAT, M12, GALVANISED	518081	2
6	BOLT & NUT - M12x130mm, HEX., GALVANISED	515466	1
5	CROSSARM - 2700x100x100mm, TYPE B-2, HARDWOOD	514375	1
4	SCREW - COACH, M12 x 100mm, GALVANISED (S/C: H40484)		1
3	BRACE - CROSSARM, ANGLE, 1524x50x50x6mm, GALVANISED	514382	1
2	FOOTING - TIMBER POLE, ARRANGEMENT (SEE NOTE 1)	508726	1
1	POLE - TIMBER (AS REQUIRED)	513988	1

ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE. DO NOT SCALE.

CAD DRAWING
DO NOT MANUALLY AMEND
A M E N D M E N T S
DWN: P.R.
CHKD: P.J.
APP'D: G.F.
DATE: 03/11/2022
BRACE STRAP POSITION
CORRECTED. NOTES &
MATERIAL LIST AMENDED.
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NETWORK STANDARD
Ausgrid
145 NEWCASTLE RD WALLSEND,
NSW 2287

SCALE	1:25	STANDARD CONSTRUCTION 33kV OFFSET ARM CONSTRUCTION 4-2		
DESIGNED	-			
DRAWN	PETER SAUNDERS			
CHECKED	P.A.S			
APPROVED	R.BREMPELL			
DATE	15/03/1996	PROJECT NUMBER	STD	
PROJTRAK NUMBER	-	SIZE	A3	
		DRAWING No	514039	
		SHEET	1	
		AMD	5	