



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. CROSSARM SIZE AND BRACE 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 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. THE SHACKLE STRAP IS TO BE FORMED TO SUIT THE CROSSARM AND INSULATOR.
6. THE MINIMUM LENGTH OF XLPE CABLE REQUIRED IS THE ABOVE GROUND POLE LENGTH TO THE CROSSARM KING BOLT PLUS 1.25m.
7. FOR UNDERGROUND CABLE TERMINATIONS OTHER THAN XLPE, REFER TO DRG: 514067.
8. COMPOSITE FIBRE CROSSARMS ARE TO BE USED AS THE PREFERRED OPTION UNDER NORMAL CIRCUMSTANCES.
9. A 2706mm COMPOSITE FIBRE CROSSARM IS TO BE USED AS THE DEFAULT CROSSARM. FOR NARROW FEEDER ALIGNMENTS, A SHORTER CROSSARM MAY BE CONSIDERED TO OVERCOME DESIGN AND SITE CONSTRAINTS.
10. ONLY THE 2706mm COMPOSITE FIBRE CROSSARM OPTION IS SHOWN ON THIS CONSTRUCTION DRAWING. REFER TO DRGS: 262732, 514373, 514374, 15233 & 237491 FOR DRILLING PATTERN OF ALTERNATE CROSSARMS.
11. THE 690mm CROSSARM BRACES ARE TO BE USED ON A 2706mm, 2106mm, 2700mm, 2100mm & 2750mm CROSSARM. THE 490mm CROSSARM BRACES ARE TO BE USED ON A 2406mm & 2400mm CROSSARM.
12. POLE STEPS ARE TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF NS128.
13. REFER TO DESIGNER SAFETY REPORT D22/200951 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.

29	STEP - POLE, SCREW-IN (SEE NOTE 12)	250144	185198	A/R
28	TIE - WIRE (TO SUIT CONDUCTOR)	514044		A/R
27	TAPE - INSULATION, SPLICING, 19mm, SELF BONDING, SCOTCH 23		H16237	A/R
26	CLAMP - TEE, TINNED BRASS (FOR COPPER TO ALUMINIUM)		H110304	4
	CLAMP - TEE (FOR ALUMINIUM TO ALUMINIUM)		H82677	
25	LUG - COMPRESSION (TO SUIT U/G CABLE)	520150		4
24	TUBING - HEATSHRINK, THICK WALL, MASTIC LINED	520718	H109611	A/R
23	TUBING - HEATSHRINK, THIN WALL, BLACK (TO SUIT U/G CABLE)	520718		A/R
22	GLOVE - HEATSHRINK, FOUR FINGER (TO SUIT U/G CABLE)	520718		1
21	SCREW - COACH, M12 x 90mm, GALVANISED		50443	A/R
20	SADDLE - POLE RADIUS (TO SUIT U/G CABLE)	513972		A/R
19	WASHER - FLAT, M16, GALVANISED	518081	177984	4
18	WASHER - CONICAL, M16, GALVANISED (USE WITH 2700mm, 2100mm & 2400mm CROSSARMS)	518082	H39647	4
	WASHER - SPRING, M16, GALVANISED (USE WITH 2706mm, 2406mm, 2106mm & 2750mm CROSSARMS)			
17	BOLT & NUT - M16x160mm, HEX., GALVANISED (USE WITH 2750mm CROSSARM)	515466	47043	4
	BOLT & NUT - M16x150mm, HEX., GALVANISED (USE WITH 2706mm, 2406mm, 2106mm, 2700mm, 2100mm & 2400mm CROSSARMS)	515466	175672	4
16	BOLT & NUT - M16x130mm, HEX., GALVANISED	515466	46979	4
15	BRACKET - MOUNTING, SHACKLE, LV FLAT, GALVANISED (SEE NOTE 5)	514379	H17762	8
14	INSULATOR - SHACKLE, REEL, TYPE SH.LV2	514407	75812	4
13	DEADEND - PREFORMED, HELICAL (TO SUIT CONDUCTOR)	514098		4
12	BLOCK - GAIN, ALUMINIUM, 125mm (USE WITH 2750mm CROSSARM)		146282	1
	BLOCK - GAIN, ALUMINIUM, 100mm (USE WITH 2706mm, 2406mm, 2106mm, 2700mm, 2100mm & 2400mm CROSSARMS)		146274	
11	WASHER - FLAT, M20, GALVANISED	518081	177986	1
10	WASHER - CONICAL, M20, GALVANISED	518082	H39655	1
9	WASHER - SQUARE, 75x75x6mm, GALVANISED (Ø22mm HOLE)	518081	H39231	2
8	BOLT & NUT - M20, HEX., GALVANISED (LENGTH TO SUIT POLE)	515466		1
7	WASHER - CONICAL, M12, GALVANISED (USE WITH 2700mm, 2400mm & 2100mm CROSSARMS)	518082	H39639	2
	WASHER - SPRING, M12, GALVANISED (USE WITH 2706mm, 2406mm, 2106mm & 2750mm CROSSARMS)	518082	H12047	
6	WASHER - FLAT, M12, GALVANISED	518081	177982	4
	BOLT & NUT - M12x150mm, HEX., GALVANISED (USE WITH 2400mm & 2750mm CROSSARMS)	515466	46847	
5	BOLT & NUT - M12x180mm, HEX., GALVANISED (USE WITH 2700mm & 2100mm CROSSARMS)	515466	46888	2
	BOLT & NUT - M12x130mm, HEX., GALVANISED (USE WITH 2706mm, 2406mm & 2106mm CROSSARMS)	515466	46805	
	CROSSARM - 2750x125x125mm, ITEM 1, COMPOSITE FIBRE (SEE NOTES 8, 9 & 10)	237491	183933	
	CROSSARM - 2400x125x100mm, TYPE LT3, HARDWOOD (SEE NOTES 8, 9 & 10)	15233	71746	
	CROSSARM - 2100x150x100mm, TYPE I, HARDWOOD (SEE NOTES 8, 9 & 10)	514374	H23745	
4	CROSSARM - 2700x150x100mm, TYPE E, HARDWOOD (SEE NOTES 8, 9 & 10)	514373	H23892	1
	CROSSARM - 2106x102x102mm, TYPE 4, COMPOSITE FIBRE (SEE NOTES 8, 9 & 10)	262732	186774	
	CROSSARM - 2406x102x102mm, TYPE 5, COMPOSITE FIBRE (SEE NOTES 8, 9 & 10)	262732	186775	
	CROSSARM - 2706x102x102mm, TYPE 6, COMPOSITE FIBRE (SEE NOTES 8, 9 & 10)	262732	186776	
3	SCREW - COACH, M12 x 100mm, GALVANISED		H40484	1
2	BRACE - CROSSARM, FLAT, TYPE L, 490mm, GALVANISED (SEE NOTE 11)	46	76745	2
	BRACE - CROSSARM, FLAT, 690mm, GALVANISED (SEE NOTE 11)	514385	H17738	
1	POLE - TIMBER (AS REQUIRED)	513988		1

ITEM	DESCRIPTION	DRG. No	STOCK CODE	QTY
------	-------------	---------	------------	-----

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. APPD: G.F.	DATE: 08/12/2023 NOTES & MATERIAL LIST AMENDED. ASSOCIATED DRAWING ADDED.
1	8

ASSOCIATED DRAWINGS	
COMPOSITE FIBRE CROSSARM MECHANICAL LOAD REQUIREMENTS	237491
2700mm CROSSARMS FOR LV, 11kV, 22kV AND 33kV CONSTRUCTION DETAILS	514373
COMPOSITE FIBRE CROSSARMS SPECIFICATION	262732
LV TERMINATION CONSTRUCTION & UG CABLE WITH TERMINATION BOX 1-104	514067
WOODEN CROSSARMS FOR 415V OVERHEAD MAINS	15233
WOODEN CROSSARMS FOR LV, 11kV & 33kV CONSTRUCTION DETAILS	514374

NETWORK STANDARD

145 NEWCASTLE RD WALLSEND, NSW 2287

SCALE	1:20	STANDARD CONSTRUCTION LV TERMINATION CONSTRUCTION AND UNDERGROUND CABLE WITH HEATSHRINK TERMINATION 1-105	SIZE	DRAWING No	SHEET	AMD
DESIGNED	P.D					
DRAWN	P.D					
CHECKED	T.L.B					
APPROVED	I.NICHOLS					
DATE	14/08/1997	514070	1	8		
PROJECT NUMBER	STD					
PROJTRAK NUMBER	-					