



- NOTES :**
- THE FOLLOWING INFORMATION IS OBTAINED FROM THE PROJECT DESIGN DRAWINGS:
 - POLE LENGTH AND STRENGTH.
 - SPECIAL FOUNDATION REQUIREMENTS.
 - POLE EMBEDMENT DEPTH.
 - CONDUCTOR SIZE.
 - CROSSARM SIZE AND BRACE REQUIREMENTS.
 - STAY REQUIREMENTS.
 - DEVIATION ANGLE.
 - THE MAXIMUM LINE DEVIATION ANGLE TO BE CONSTRUCTED ON THIS ARRANGEMENT IS TO BE DETERMINED BY THE LINE DESIGNER.
 - ALL BOLTS AND INSULATOR PINS PASSING THROUGH TIMBER ARE TO BE COATED WITH GRAPHITE GREASE.
 - POLES SHALL BE DRILLED, SCARFED AND DRESSED ON SITE. DRILLING AND SCARFING TO BE TREATED WITH APPROVED PRESERVATIVES.
 - THE SHACKLE STRAP IS TO BE FORMED TO SUIT THE CROSSARM AND INSULATOR.
 - 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: 514044.
 - COMPOSITE FIBRE CROSSARMS ARE TO BE USED AS THE PREFERRED OPTION UNDER NORMAL CIRCUMSTANCES.
 - 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.
 - ONLY THE 2706mm COMPOSITE FIBRE CROSSARM OPTION IS SHOWN ON THIS CONSTRUCTION DRAWING. REFER TO DRGS: 262732, 514373, 15233, 514374 & 237491 FOR DRILLING PATTERN OF ALTERNATE CROSSARMS.
 - 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.
 - BI-METALLIC PARALLEL GROOVE CLAMPS ARE NOT TO BE INSTALLED ON TENSIONED CONDUCTORS. IF JOINING ALUMINIUM AND COPPER CONDUCTOR, A PARALLEL GROOVE CLAMP AND CONDUCTOR TAIL TO SUIT THE TENSIONED CONDUCTOR MATERIAL IS TO BE INSTALLED. THE ALUMINIUM AND COPPER CONDUCTORS ARE JOINED WITH A BI-METALLIC COMPRESSION LINK INSTALLED IN THE NON-TENSIONED CONDUCTOR TAPPING.
 - POLE STEPS ARE TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF NS128.
 - REFER TO DESIGNER SAFETY REPORT D22/200930 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.

ITEM	DESCRIPTION	DRG. No	STOCK CODE	QTY
27	STEP - POLE, SCREW-IN (SEE NOTE 12)	250144	185198	A/R
26	LINK - BI-METALLIC, COMPRESSION (TO SUIT CONDUCTORS) (SEE NOTE 11)	514053		4
25	INSULATOR - LV, (LPLV PATTERN 'B') & PIN ARRANGEMENT	513995		5
24	TIE - CONDUCTOR, LOW VOLTAGE, SUPPORT ARRANGEMENT (SEE NOTE 6)	514044		6m
23	CLAMP - PARALLEL GROOVE (TO SUIT CONDUCTOR) (SEE NOTE 11)	514099		4
22	BOLT & NUT - M12x130mm, HEX, GALVANISED	515466	46805	2
21	CROSSARM - 2100x100x100mm, TYPE A, HARDWOOD (SEE NOTES 7, 8 & 9)	514374	H23818	1
	CROSSARM - 2400x100x75mm, TYPE L3, HARDWOOD (SEE NOTES 7, 8 & 9)	15233	89912	
	CROSSARM - 2700x100x100mm, TYPE D, HARDWOOD (SEE NOTES 7, 8 & 9)	514373	H23868	
	CROSSARM - 2106x102x102mm, TYPE 1, COMPOSITE FIBRE (SEE NOTES 7, 8 & 9)	262732	186771	
	CROSSARM - 2406x102x102mm, TYPE 2, COMPOSITE FIBRE (SEE NOTES 7, 8 & 9)	262732	186772	
20	DEADEND - PREFORMED, HELICAL (TO SUIT CONDUCTOR)	514098		4
	BOLT & NUT - M16x130mm, HEX, GALVANISED	515466	46979	4
19	INSULATOR - SHACKLE, REEL, TYPE SH LV2	514407	75812	4
18	BRACKET - MOUNTING, SHACKLE, LV FLAT, GALVANISED (SEE NOTE 5)	514379	H17762	8
17	WASHER - FLAT, M16, GALVANISED	518081	177984	3
16	WASHER - CONICAL, M16, GALVANISED (USE WITH 2700mm, 2100mm & 2400mm CROSSARMS)	518082	H39647	3
	WASHER - SPRING, M16, GALVANISED (USE WITH 2706mm, 2406mm, 2106mm & 2750mm CROSSARMS)	518082	H12047	
15	BOLT & NUT - M16x160mm, HEX, GALVANISED (USE WITH 2750mm CROSSARM)	515466	47043	3
	BOLT & NUT - M16x150mm, HEX, GALVANISED (USE WITH 2706mm, 2406mm, 2106mm, 2700mm, 2100mm & 2400mm CROSSARMS)	515466	175672	
14	BLOCK - GAIN, ALUMINIUM, 125mm (USE WITH 2750mm TERMINATION CROSSARM)		146282	1
	BLOCK - GAIN, ALUMINIUM, 100mm (USE WITH 2706mm, 2406mm, 2106mm, 2700mm, 2100mm & 2400mm TERMINATION CROSSARMS)		146274	
13	BLOCK - GAIN, ALUMINIUM, 100mm (USE WITH INTERMEDIATE CROSSARM)		146274	1
	WASHER - FLAT, M20, GALVANISED	518081	177986	
12	WASHER - CONICAL, M20, GALVANISED	518082	H39655	2
11	WASHER - SQUARE, 75x75x6mm, GALVANISED (Ø22mm HOLE)	518081	H39231	4
10	BOLT & NUT - M20, HEX, GALVANISED (LENGTH TO SUIT POLE)	515466		2
9	WASHER - CONICAL, M12, GALVANISED (USE WITH 2700mm, 2400mm & 2100mm CROSSARMS)	518082	H39639	4
	WASHER - SPRING, M12, GALVANISED (USE WITH 2706mm, 2406mm, 2106mm & 2750mm CROSSARMS)	518082	H12047	
8	WASHER - FLAT, M12, GALVANISED	518081	177982	8
	BOLT & NUT - M12x150mm, HEX, GALVANISED (USE WITH 2400mm & 2750mm CROSSARMS)	515466	46847	
7	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	
6	CROSSARM - 2750x125x125mm, ITEM 1, COMPOSITE FIBRE (SEE NOTES 7, 8 & 9)	237491	183933	1
	CROSSARM - 2400x125x100mm, TYPE L3, HARDWOOD (SEE NOTES 7, 8 & 9)	15233	71746	
	CROSSARM - 2100x150x100mm, TYPE L, HARDWOOD (SEE NOTES 7, 8 & 9)	514374	H23745	
	CROSSARM - 2700x150x100mm, TYPE E, HARDWOOD (SEE NOTES 7, 8 & 9)	514373	H23892	
	CROSSARM - 2106x102x102mm, TYPE 4, COMPOSITE FIBRE (SEE NOTES 7, 8 & 9)	262732	186774	
5	CROSSARM - 2406x102x102mm, TYPE 5, COMPOSITE FIBRE (SEE NOTES 7, 8 & 9)	262732	186775	1
	CROSSARM - 2706x102x102mm, TYPE 6, COMPOSITE FIBRE (SEE NOTES 7, 8 & 9)	262732	186776	
4	SCREW - COACH, M12 x 100mm, GALVANISED		H40484	2
	BRACE - CROSSARM, FLAT, TYPE L, 490mm, GALVANISED (SEE NOTE 10)	46	76745	
3	BRACE - CROSSARM, FLAT, 690mm, GALVANISED (SEE NOTE 10)	514385	H17738	1
	POLE - TIMBER (AS REQUIRED)	513988		

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

CAD DRAWING DO NOT MANUALLY AMEND AMENDMENTS	DATE: 08/12/2023 NOTES & MATERIAL LIST AMENDED, ASSOCIATED DRAWING ADDED.
DWN: P.R.	APPD: G.F.
CHKD: P.J.	13

ITEM	DESCRIPTION	DRG. No	STOCK CODE	QTY
COMPOSITE FIBRE CROSSARM MECHANICAL LOAD REQUIREMENTS	237491			
2700mm CROSSARMS FOR LV, 11kV, 22kV & 33kV CONSTRUCTION DETAILS	514373			
COMPOSITE FIBRE CROSSARMS SPECIFICATION	262732			
LV CONDUCTOR TIE & SUPPORT ARRANGEMENTS	514044			
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 TEE OFF CONSTRUCTION 1-14
DESIGNED	-	
DRAWN	PETER SAUNDERS	
CHECKED	-	
APPROVED	ROBERT BREMMELL	PROJECT NUMBER STD
DATE	15/03/1996	
PROJ/TRAK NUMBER	-	SIZE A2
		DRAWING No 513906
		SHEET 1
		AMD 13