



- 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.
 - ALL BOLTS PASSING THROUGH TIMBER ARE TO BE COATED WITH GRAPHITE GREASE.
 - THE MAXIMUM LINE DEVIATION ANGLE TO BE CONSTRUCTED ON THIS ARRANGEMENT IS TO BE DETERMINED BY THE LINE DESIGNER.
 - THE LOAD AND DEVIATION ALLOWABLE ON THE EYEBOLT IS TO BE DETERMINED FROM DRG: 520324.
 - 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.
 - THE MINIMUM DISTANCE BETWEEN THE LV CONDUCTORS AND THE TOP MOUNTING HOLE OF THE LINK/ISOLATING SWITCH BRACKET IS TO BE MAINTAINED AT 600mm FOR A SINGLE CIRCUIT AND 300mm FOR PARALLEL CIRCUITS.
 - WHEN THE POLE IS LOCATED NEAR THE PROPERTY BOUNDARY, THE FUSE/LINK SWITCH IS TO BE LOCATED ON THE ROAD SIDE OF THE POLE. WHEN THE POLE IS LOCATED NEAR THE KERB, THE FUSE/LINK SWITCH IS TO BE LOCATED ON THE PROPERTY SIDE OF THE POLE.
 - POLE STEPS ARE TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF NS128.
 - COMPOSITE FIBRE CROSSARMS ARE TO BE USED AS THE PREFERRED OPTION UNDER NORMAL CIRCUMSTANCES.
 - WHEN EXTENDING LV ABC FROM EXISTING LV OPEN WIRE CONDUCTORS, THE EXISTING CROSSARM MAY BE USED.
 - 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, 514374, 15233 & 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.
 - THE LV ABC FUSE/LINK DISCONNECTOR KIT WILL COMPRISE THE FOLLOWING COMPONENTS:
 - 3 x KGH 400 SINGLE POLE FUSE/LINK SWITCHES
 - 3 x 400A CONNECTING LINKS
 - 1 x UNIVERSAL POLE MOUNTING BRACKET
 - REFER TO DESIGNER SAFETY REPORT D20/250390 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.

ITEM	DESCRIPTION	DRG. No	STOCK CODE	SINGLE CABLE	PARALLEL CABLE	QTY
27	STEP - POLE, SCREW-IN (SEE NOTE 9)	250144	185198	A/R	A/R	
26	CONDUCTOR - OVERHEAD, TAPPINGS (TO SUIT CONDUCTOR SIZE)			4m	8m	
25	DISCONNECTOR - FUSE/LINK, LV ABC, KIT (SEE NOTES 7, 8 & 15)		185818	1	1	
24	LUG - COMPRESSION, BI-METALLIC, PRE-INSULATED (TO SUIT CONDUCTOR)	514053		6	12	
23	CAP - END, PUSH ON (TO SUIT 25mm ² LV ABC)		H109447	4	8	
	CAP - END, PUSH ON (TO SUIT 95mm ² & 150mm ² LV ABC)		H77222			
22	CONNECTOR - BI-METALLIC, SERVICE TAKE OFF, 25mm ² (COPPER MAINS)		H109694			
	CONNECTOR - ALUMINIUM, SERVICE TAKE OFF, 25mm ² (ALUMINIUM MAINS)		H109678			
	CONNECTOR - PRE-INSULATED TAP, 95-150mm ² (COPPER MAINS)		148387	4	8	
	CONNECTOR - INSULATION PIERCING, 95-150mm ² (ALUMINIUM MAINS)		73569			
21	CLAMP - TERMINATION (TO SUIT 2x25mm ² OR 4x25mm ² LV ABC)		H113464			
	CLAMP - TERMINATION (TO SUIT 2x95mm ² OR 4x95mm ² LV ABC)		176651	1	2	
	CLAMP - TERMINATION (TO SUIT 4x150mm ² LV ABC)		176652			
20	EYEBOLT - M20, GALVANISED (LENGTH TO SUIT POLE) (SEE NOTE 4)	513653		1	2	
19	WASHER - CONICAL, M16, GALVANISED (USE WITH 2700mm, 2100mm & 2400mm CROSSARMS)	518082	H39647			
	WASHER - SPRING, M16, GALVANISED (USE WITH 2706mm, 2406mm, 2106mm & 2750mm CROSSARMS)			4	4	
18	WASHER - FLAT, M16, GALVANISED	518081	177984	4	4	
17	BOLT & NUT - M16x160mm, HEX, GALVANISED (USE WITH 2750mm CROSSARM)	515466	47043			
	BOLT & NUT - M16x150mm, HEX, GALVANISED (USE WITH 2706mm, 2406mm, 2106mm, 2700mm, 2100mm & 2400mm CROSSARMS)	515466	175672	4	4	
16	BOLT & NUT - M16x130mm, HEX, GALVANISED	515466	46979	4	4	
15	BRACKET - MOUNTING, SHACKLE, LV FLAT, GALVANISED (SEE NOTE 6)	514379	H17762	8	8	
14	INSULATOR - SHACKLE, REEL, TYPE SH LV2	514407	75812	4	4	
13	DEADEND - PREFORMED, HELICAL (TO SUIT CONDUCTOR)	514098		4	4	
12	BLOCK - GAIN, ALUMINIUM, 125mm (USE WITH 2750mm CROSSARM)		146282	1	1	
	BLOCK - GAIN, ALUMINIUM, 100mm (USE WITH 2706mm, 2406mm, 2106mm, 2700mm, 2100mm & 2400mm CROSSARMS)		146274			
11	WASHER - FLAT, M20, GALVANISED	518081	177986	2	3	
10	WASHER - CONICAL, M20, GALVANISED	518082	H39655	2	3	
9	WASHER - SQUARE, 75x75x6mm, GALVANISED (Ø22mm HOLE)	518081	H39231	4	6	
8	BOLT & NUT - M20, HEX, GALVANISED (LENGTH TO SUIT POLE)	515466		1	1	
7	WASHER - CONICAL, M12, GALVANISED (USE WITH 2700mm, 2400mm & 2100mm CROSSARMS)	518082	H39639			
	WASHER - SPRING, M12, GALVANISED (USE WITH 2706mm, 2406mm, 2106mm & 2750mm CROSSARMS)	518082	H12047	2	2	
6	WASHER - FLAT, M12, GALVANISED	518081	177982	4	4	
	BOLT & NUT - M12x150mm, HEX, GALVANISED (USE WITH 2400mm & 2750mm CROSSARMS)	515466	46847			
	BOLT & NUT - M12x180mm, HEX, GALVANISED (USE WITH 2700mm & 2100mm CROSSARMS)	515466	46888	2	2	
	BOLT & NUT - M12x130mm, HEX, GALVANISED (USE WITH 2706mm, 2406mm & 2106mm CROSSARMS)	515466	46805			
4	CROSSARM - 2750x125x125mm, ITEM 1, COMPOSITE FIBRE (SEE NOTES 10, 11, 12 & 13)	237491	183933			
	CROSSARM - 2400x125x100mm, TYPE L13, HARDWOOD (SEE NOTES 10, 11, 12 & 13)	15233	71746			
	CROSSARM - 2100x150x100mm, TYPE I, HARDWOOD (SEE NOTES 10, 11, 12 & 13)	514374	H23745			
	CROSSARM - 2700x150x100mm, TYPE E, HARDWOOD (SEE NOTES 10, 11, 12 & 13)	514373	H23892	1	1	
	CROSSARM - 2106x102x102mm, TYPE 4, COMPOSITE FIBRE (SEE NOTES 10, 11, 12 & 13)	262732	186774			
	CROSSARM - 2406x102x102mm, TYPE 5, COMPOSITE FIBRE (SEE NOTES 10, 11, 12 & 13)	262732	186775			
	CROSSARM - 2706x102x102mm, TYPE 6, COMPOSITE FIBRE (SEE NOTES 10, 11, 12 & 13)	262732	186776			
3	SCREW - COACH, M12 x 100mm, GALVANISED		H40484	4	4	
2	BRACE - CROSSARM, FLAT, TYPE L, 490mm, GALVANISED (SEE NOTE 14)	46	76745			
	BRACE - CROSSARM, FLAT, 690mm, GALVANISED (SEE NOTE 14)	514385	H17738	2	2	
1	POLE - TIMBER (AS REQUIRED)	513988		1	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.
APPD: G.F.
DATE: 08/12/2023
NOTES & MATERIAL LIST
AMENDED, ASSOCIATED
DRAWING ADDED.
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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
2100mm CROSSARMS FOR LV, 11kV & 33kV CONSTRUCTION DETAILS	514374
WOODEN CROSSARMS FOR 415V OVERHEAD MAINS	15233
20mm EYEBOLT LOADING AND DEVIATION GRAPH	520324

NETWORK STANDARD
Ausgrid
145 NEWCASTLE RD WALLSEND,
NSW 2287

SCALE	1:15	STANDARD CONSTRUCTION LV OPEN WIRE TO ABC THROUGH TERMINATION CONSTRUCTION WITH LINKS 1-89			
DESIGNED	PHILLIP JONES				
DRAWN	PATRICIA RIOS				
CHECKED	PHILLIP JONES				
APPROVED	GLENN FORD				
DATE	21/08/2009				
PROJECT NUMBER	STD				
PROJ/TRAK NUMBER	-	SIZE	DRAWING No	SHEET	AMD
		A2	206623	1	8