



- 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 FOR DRILLING PATTERN OF ALTERNATE CROSSARMS.
 - THE 690mm CROSSARM BRACES ARE TO BE USED ON A 2706mm, 2106mm, 2700mm & 2100mm 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
 - FOR DETAILS OF APPROVED ALTERNATE WAGNER COMPOSITE FIBRE CROSSARMS, REFER TO DRG: 265964.
 - WHEN SPECIFYING WAGNER COMPOSITE FIBRE CROSSARMS, A REVIEW OF ALL THE HARDWARE ATTACHED TO THE CROSSARM WILL BE REQUIRED.
 - REFER TO DESIGNER SAFETY REPORT D20/250390 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.

ITEM	DESCRIPTION	DRG. No	STOCK CODE	SINGLE CABLE QTY	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	4	8
	CONNECTOR - ALUMINIUM, SERVICE TAKE OFF, 25mm ² (ALUMINIUM MAINS)		H109678		
	CONNECTOR - PRE-INSULATED TAP, 95-150mm ² (COPPER MAINS)		148387		
21	CLAMP - TERMINATION (TO SUIT 2x25mm ² OR 4x25mm ² LV ABC)		H113464	1	2
	CLAMP - TERMINATION (TO SUIT 2x95mm ² OR 4x95mm ² LV ABC)		176651		
	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 HARDWOOD CROSSARMS)	518082	H39647	4	4
	WASHER - SPRING, M16, GALVANISED (USE WITH COMPOSITE FIBRE CROSSARMS)				
18	WASHER - FLAT, M16, GALVANISED	518081	177984	4	4
17	BOLT & NUT - M16x150mm, HEX., GALVANISED	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, 100mm		146274	1	1
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 HARDWOOD CROSSARMS)	518082	H39639	2	2
	WASHER - SPRING, M12, GALVANISED (USE WITH COMPOSITE FIBRE CROSSARMS)	518082	H12047		
6	WASHER - FLAT, M12, GALVANISED	518081	177982	4	4
5	BOLT & NUT - M12x150mm, HEX., GALVANISED (USE WITH 2400mm CROSSARM)	515466	46847	2	2
	BOLT & NUT - M12x180mm, HEX., GALVANISED (USE WITH 2700mm & 2100mm CROSSARMS)	515466	46888		
	BOLT & NUT - M12x130mm, HEX., GALVANISED (USE WITH 2706mm, 2406mm & 2106mm CROSSARMS)	515466	46805		
	CROSSARM - 2400x125x100mm, TYPE L3, HARDWOOD (SEE NOTES 10, 11, 12, 13, 16 & 17)	15233	71746		
4	CROSSARM - 2100x150x100mm, TYPE I, HARDWOOD (SEE NOTES 10, 11, 12, 13, 16 & 17)	514374	H23745	1	1
	CROSSARM - 2700x150x100mm, TYPE E, HARDWOOD (SEE NOTES 10, 11, 12, 13, 16 & 17)	514373	H23892		
	CROSSARM - 2106x102x102mm, TYPE 4, COMPOSITE FIBRE (SEE NOTES 10, 11, 12, 13, 16 & 17)	262732	186774		
	CROSSARM - 2406x102x102mm, TYPE 5, COMPOSITE FIBRE (SEE NOTES 10, 11, 12, 13, 16 & 17)	262732	186775		
3	CROSSARM - 2706x102x102mm, TYPE 6, COMPOSITE FIBRE (SEE NOTES 10, 11, 12, 13, 16 & 17)	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	2	2
1	BRACE - CROSSARM, FLAT, 690mm, GALVANISED (SEE NOTE 14)	514385	H17738		
1	POLE - TIMBER (AS REQUIRED)	513988		1	1

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

CAD DRAWING DO NOT MANUALLY AMEND	
AMENDMENTS	
DWN: P.R.	
CHKD: P.J.	
APPD: G.F.	
DATE: 25/09/2024	
NOTES & MATERIAL LIST AMENDED, ASSOCIATED DRAWING ADDED.	9
DWN: P.R.	
CHKD: P.J.	
APPD: G.F.	
DATE: 25/09/2024	
WAGNER CROSSARM OPTION REMOVED FROM MATERIAL LIST, NOTES ADDED.	9

ASSOCIATED DRAWINGS	
COMPOSITE FIBRE CROSSARMS WAGNER SPECIFICATION	265964
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

145 NEWCASTLE RD WALLSEND, NSW 2287

SCALE	1:15	STANDARD CONSTRUCTION LV OPEN WIRE TO ABC THROUGH TERMINATION CONSTRUCTION WITH LINKS 1-89	SIZE A2	DRAWING No 206623	SHEET 1	AMD 9
DESIGNED	PHILLIP JONES					
DRAWN	PATRICIA RIOS					
CHECKED	PHILLIP JONES					
APPROVED	GLENN FORD					
DATE	2 ⁸ /2009					
PROJECT NUMBER	STD					
PROJ/TRAK NUMBER	-					