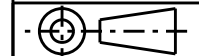


NOTES :

- THE FOLLOWING INFORMATION IS OBTAINED FROM THE PROJECT DESIGN DRAWINGS:
 - POLE LENGTH AND STRENGTH.
 - SPECIAL FOUNDATION REQUIREMENTS.
 - POLE EMBEDMENT DEPTH.
 - CONDUCTOR SIZE.
 - CROSSARM SIZE.
 - STAY REQUIREMENTS.
 - DEVIATION ANGLE.
- THE MAXIMUM LINE DEVIATION ANGLE TO BE CONSTRUCTED ON THIS ARRANGEMENT IS TO BE DETERMINED BY THE LINE DESIGNER.
- POLE STEPS ARE TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF NS128.
- IN AREAS WHERE THE 11kV NETWORK CANNOT BE WORKED ON USING LIVE LINE TECHNIQUES, UNDERBUILT CIRCUITS SHALL BE INSTALLED WITH A MINIMUM CLEARANCE OF 1200mm. IN AREAS WHERE THE 11kV NETWORK CAN BE WORKED ON USING LIVE LINE TECHNIQUES, UNDERBUILT CIRCUITS SHALL BE INSTALLED WITH A MINIMUM CLEARANCE OF 2500mm.
- ALL BOLTS AND INSULATOR PINS PASSING THROUGH TIMBER ARE TO BE COATED WITH GRAPHITE GREASE.
- 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.
- TO MAINTAIN THE INTEGRITY OF A COVERED SYSTEM, IT IS ESSENTIAL THAT ALL STRIPPED AND PUNCTURED INSULATION IS CONTAINED WITHIN THE APPROPRIATE INSULATING COVER.
- CCT CONDUCTOR INSULATION SHALL ONLY BE REMOVED BY THE USE OF AN APPROVED CCT CONDUCTOR STRIPPING TOOL.
- A 2100mm CROSSARM IS TO BE USED AS THE DEFAULT TERMINATION CROSSARM. A 3070mm COMPOSITE FIBRE OR 3000mm STEEL CROSSARM IS TO BE USED WHEN THE MAXIMUM LOAD OF A TIMBER CROSSARM IS EXCEEDED.
- ONLY THE 2100mm TERMINATION CROSSARM OPTION IS SHOWN ON THIS CONSTRUCTION DRAWING. REFER TO DRGS: 514377 & 237491 FOR DRILLING PATTERN OF ALTERNATE CROSSARMS.
- SURGE ARRESTERS ARE TO BE INSTALLED ON AN OVERHEAD CCT CONDUCTOR SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF NS126. IF A SURGE ARRESTER IS TO BE INSTALLED ON THIS CONSTRUCTION, IT IS TO BE INSTALLED AS PER THE RELEVANT ARRANGEMENT SPECIFIED ON DRG: 177151.
- REFER TO DESIGNER SAFETY REPORT D25/137025 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.

34	STEP - POLE, SCREW-IN (SEE NOTE 3)	250144	185198	A/R
33	COVER - PARALLEL, GROOVE CLAMP		144576	3
32	CLAMP - PARALLEL GROOVE, 2-BOLT		62414	3
31	COVER - STRAIN CLAMP		144543	3
	CLAMP - CONDUCTOR STRAIN, FOR CCT180		176313	
30	CLAMP - CONDUCTOR STRAIN, FOR CCT120		144527	3
	CLAMP - CONDUCTOR STRAIN, FOR CCT80		144535	
29	INSULATOR - STRAIN ROD		144550	3
28	LINK - SAG, 70kN (PLP PART No. CTSLEW-070-1)		PURCHASE	3
	WIRE - TIE, PREFORMED, INSULATED, CCT180		176312	
27	WIRE - TIE, PREFORMED, INSULATED, CCT120		144600	4
	WIRE - TIE, PREFORMED, INSULATED, CCT80		144618	
26	WASHER - CONICAL, M16, GALVANISED	518082	H39647	4
25	WASHER - SQUARE, 50x50x6mm, GALVANISED (Ø18mm HOLE)	518081	H39257	3
24	INSULATOR - PIN POST, LONG STUD		145052	4
23	BRACKET - POLE TOP, GALVANISED	514380	H17314	1
	BLOCK - GAIN, ALUMINIUM, 125mm (USE WITH 3070mm TERMINATION CROSSARM)		146282	
22	BLOCK - GAIN, ALUMINIUM, 100mm (USE WITH 2100mm & 3000mm TERMINATION CROSSARMS)		146274	1
21	BLOCK - GAIN, ALUMINIUM, 100mm (USE WITH 2100mm CROSSARM)		146274	1
20	WASHER - FLAT, M20, GALVANISED (USE WITH 2100mm TERMINATION CROSSARM)	518081	177986	2
19	WASHER - FLAT, M20, GALVANISED	518081	177986	2
	WASHER - SQUARE, 75x75x6mm, GALVANISED (Ø22mm HOLE) (USE WITH 3070mm TERMINATION CROSSARM)	518081	H39231	
18	WASHER - LIP, M24, GALVANISED (USE WITH 2100mm & 3000mm TERMINATION CROSSARMS)	518081	176912	2
	WASHER - SPRING, M20, GALVANISED (USE WITH 3000mm & 3070mm TERMINATION CROSSARMS)	518082	175569	
17	WASHER - CONICAL, M20, GALVANISED (USE WITH 2100mm TERMINATION CROSSARM)	518082	H39655	2
16	EYEBOLT - M20x200mm, GALVANISED (SEE NOTE 6)	513653	H37881	2
15	EYEBOLT - M20, GALVANISED (LENGTH TO SUIT POLE) (SEE NOTE 6)	513653		1
	WASHER - SPRING, M12, GALVANISED (USE WITH 3000mm & 3070mm TERMINATION CROSSARMS)	518082	H12047	
14	WASHER - CONICAL, M12, GALVANISED (USE WITH 2100mm TERMINATION CROSSARM)	518082	H39639	2
	BOLT & NUT - M12x150mm, HEX., GALVANISED (USE WITH 3070mm TERMINATION CROSSARM)	515466	46847	
13	BOLT & NUT - M12x180mm, HEX., GALVANISED (USE WITH 2100mm & 3000mm TERMINATION CROSSARMS)	515466	46888	2
	CROSSARM - 3070x125x125mm, ITEM 3, COMPOSITE FIBRE (SEE NOTES 10 & 11)	237491	183935	
12	CROSSARM - 3000x150x100x5mm, RHS, GALVANISED (SEE NOTES 10 & 11)	514377	H23787	1
	CROSSARM - 2100x150x100mm, TYPE H, HARDWOOD (SEE NOTES 10 & 11)	514374	H23745	
11	SCREW - COACH, M12x100mm, GALVANISED		H40484	1
10	WASHER - CONICAL, M20, GALVANISED	518082	H39655	2
9	WASHER - SQUARE, 75x75x6mm, GALVANISED (Ø22mm HOLE)	518081	H39231	5
8	BOLT & NUT - M20, HEX., GALVANISED (LENGTH TO SUIT POLE)	515466		1
7	WASHER - CONICAL, M12, GALVANISED	518082	H39639	3
6	WASHER - FLAT, M12, GALVANISED	518081	177982	9
5	BOLT & NUT - M12x130mm, HEX., GALVANISED	515466	46805	2
4	CROSSARM - 2100x100x100mm, TYPE B, HARDWOOD	514374	H23680	1
3	BOLT & NUT - M12, HEX., GALVANISED (LENGTH TO SUIT POLE)	515466		1
2	BRACE - CROSSARM, FLAT, 690mm, GALVANISED	514385	H17738	4
1	POLE - TIMBER (AS REQUIRED)	513988		1

ITEM	DESCRIPTION	DRG. No	STOCK CODE	QTY
SCALE	1:15	STANDARD CONSTRUCTION 11kV TEE OFF CONSTRUCTION 2-14 CCT		
DESIGNED	PHILLIP JONES			
DRAWN	PATRICIA RIOS			
CHECKED	PHILLIP JONES			
APPROVED	STEPHEN CONNOR			
DATE	06/12/2006			
PROJECT NUMBER	STD			
TRIM REF NUMBER	-	SIZE A2	DRAWING No 174964	SHEET 1
				REV 3



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

CAD DRAWING DO NOT MANUALLY AMEND	AMENDMENTS	DWN: PATRICIA RIOS	CHKD: PHIL JONES	DATE: 03/09/2007	NOTE 4. AMENDED.	APP'D by STEPHEN CONNOR	DWN: PATRICIA RIOS	CHKD: PHILLIP JONES	DATE: 16/08/2019	M20 WASHER ADDED. NOTES & MATERIAL LIST UPDATED. SHEET SIZE CHANGED.	APP'D by: GLENN FORD	DWN: P.R.	CHKD: P.J.	APPD: G.F.	DATE: 15/05/2025	NOTES & MATERIAL LIST AMENDED.
1																

11kV SURGE ARRESTER ARRANGEMENTS	177151
COMPOSITE FIBRE CROSSARM MECHANICAL LOAD REQUIREMENTS	237491
HV TERMINATION STEEL CROSSARM CONSTRUCTION DETAILS	514377
20mm EYEBOLT LOADING & DEVIATION GRAPH	520324
ASSOCIATED DRAWINGS	

NETWORK STANDARD

Ausgrid

42 HONEYSUCKLE DRIVE,
NEWCASTLE WEST NSW 2300