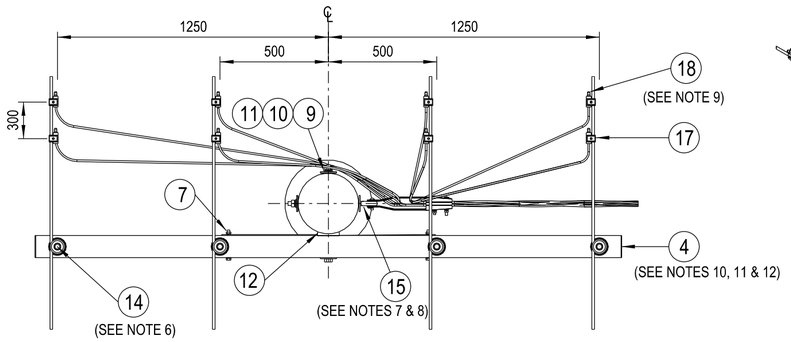

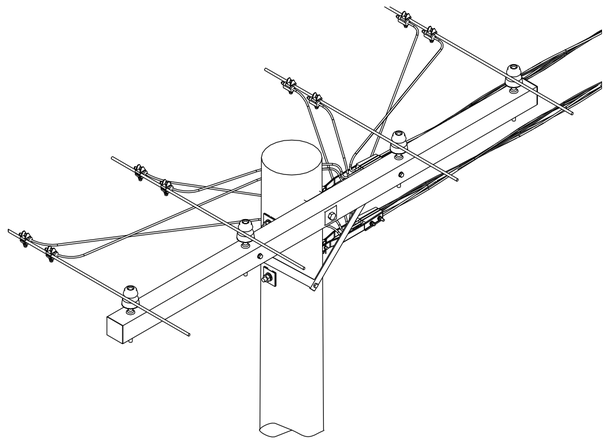

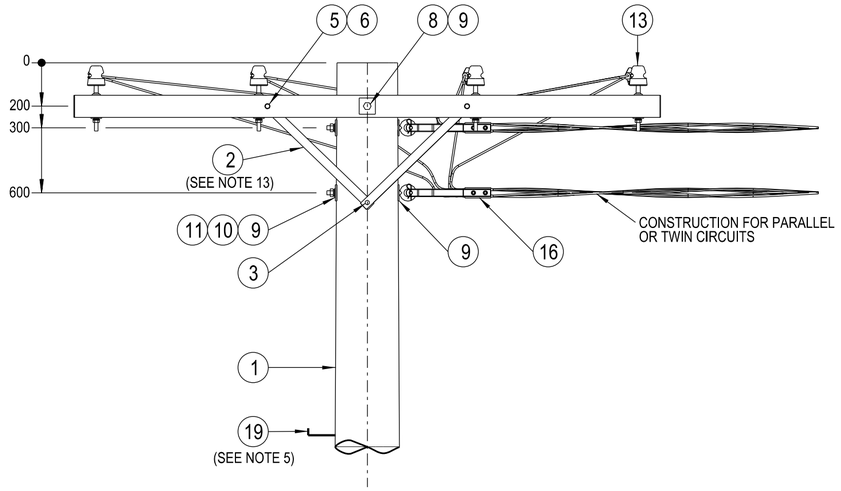

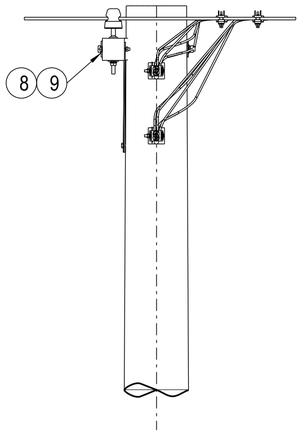

NOTES :

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. ALL BOLTS AND INSULATOR PINS PASSING THROUGH TIMBER ARE TO BE COATED WITH GRAPHITE GREASE.
3. THE MAXIMUM LINE DEVIATION ANGLE TO BE CONSTRUCTED ON THIS ARRANGEMENT IS TO BE DETERMINED BY THE LINE DESIGNER.
4. POLES SHALL BE DRILLED, SCARFED AND DRESSED ON SITE. DRILLING AND SCARFING TO BE TREATED WITH APPROVED PRESERVATIVES.
5. POLE STEPS ARE TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF NS128.
6. 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.
7. THE LOAD AND DEVIATION ALLOWABLE ON THE EYEBOLT IS TO BE DETERMINED FROM DRG: 520324.
8. EYEBOLTS ARE TO BE INSTALLED IN THE DIRECTION OF THE OVERHEAD CONDUCTORS.
9. INSTALL PUSH ON END CAPS ON THE TEE OFF CABLE CORES.
10. COMPOSITE FIBRE CROSSARMS ARE TO BE USED AS THE PREFERED OPTION UNDER NORMAL CIRCUMSTANCES.
11. 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.
12. 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.
13. 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.
14. REFER TO DESIGNER SAFETY REPORT D23/224649 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.

ITEM	DESCRIPTION	DRG. No	STOCK CODE	QUANTITY SINGLE CABLE	QUANTITY PARALLEL CABLE
19	STEP - POLE, SCREW-IN (SEE NOTE 5)	250144	185198	A/R	A/R
18	CAP - END, PUSH ON (TO SUIT 25mm² LV ABC) (SEE NOTE 9)		H109447	4	8
	CAP - END, PUSH ON (TO SUIT 95mm² & 150mm² LV ABC) (SEE NOTE 9)		H77222		
17	CONNECTOR - BI-METALLIC, SERVICE TAKE OFF, 25mm² (COPPER MAINS)		H109694	4	8
	CONNECTOR - ALUMINIUM, SERVICE TAKE OFF, 25mm² (ALUMINIUM MAINS)		H109678		
	CONNECTOR - PRE-INSULATED TAP, 95-150mm² (COPPER MAINS)		148387		
	CONNECTOR - INSULATION PIERCING, 95-150mm² (ALUMINIUM MAINS)		73569		
16	CLAMP - TERMINATION (TO SUIT 2x25mm² OR 4x25mm² LV ABC)		H113464	1	2
	CLAMP - TERMINATION (TO SUIT 2x95mm² OR 4x95mm² LV ABC)		176651		
	CLAMP - TERMINATION (TO SUIT 4x150mm² LV ABC)		176652		
15	EYEBOLT - M20, GALVANISED (LENGTH TO SUIT POLE) (SEE NOTES 7 & 8)	513653		1	2
14	TIE - CONDUCTOR, LOW VOLTAGE, SUPPORT ARRANGEMENT (SEE NOTE 6)	514044		5m	5m
13	INSULATOR - LV, (LPLV PATTERN 'B') & PIN ARRANGEMENT	513995		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 2700mm, 2400mm & 2100mm CROSSARMS)	518082	H39639	2	2
	WASHER - SPRING, M12, GALVANISED (USE WITH 2706mm, 2406mm & 2106mm CROSSARMS)	518082	H12047		
6	WASHER - FLAT, M12, GALVANISED	518081	177982	4	4
5	BOLT & NUT - M12x130mm, HEX., GALVANISED	515466	46805	2	2
4	CROSSARM - 2100x100x100mm, TYPE A, HARDWOOD (SEE NOTES 10, 11 & 12)	514374	H23818	1	1
	CROSSARM - 2400x100x75mm, TYPE L3, HARDWOOD (SEE NOTES 10, 11 & 12)	15233	89912		
	CROSSARM - 2700x100x100mm, TYPE D, HARDWOOD (SEE NOTES 10, 11 & 12)	514373	H23868		
	CROSSARM - 2106x102x102mm, TYPE 1, COMPOSITE FIBRE (SEE NOTES 10, 11 & 12)	262732	186771		
	CROSSARM - 2406x102x102mm, TYPE 2, COMPOSITE FIBRE (SEE NOTES 10, 11 & 12)	262732	186772		
	CROSSARM - 2706x102x102mm, TYPE 3, COMPOSITE FIBRE (SEE NOTES 10, 11 & 12)	262732	186773		
3	SCREW - COACH, M12 x 100mm, GALVANISED		H40484	1	1
2	BRACE - CROSSARM, FLAT, TYPE L, 490mm, GALVANISED (SEE NOTE 13)	46	76745	2	2
	BRACE - CROSSARM, FLAT, 690mm, GALVANISED (SEE NOTE 13)	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

4
DWN: PATRICIA RIOS
CHKD: PHILLIP JONES
DATE: 12/03/2020
ITEM 19 ADDED. MATERIAL LIST & NOTES AMENDED. REFERENCE TO TIMBER POLE ADDED.
APP'D by: GLENN FORD

5
DWN: P.R.
CHKD: P.J.
APP'D: G.F.
DATE: 14/11/2023
COMPOSITE CROSSARMS ADDED TO MATERIAL LIST. NOTES & DIMENSIONS AMENDED.

ASSOCIATED DRAWINGS

WOODEN CROSSARMS FOR 415V OVERHEAD MAINS	15233
2100mm CROSSARMS FOR LV, 11kV & 33kV CONSTRUCTION DETAILS	514374
2700mm CROSSARMS FOR LV, 11kV, 22kV AND 33kV CONSTRUCTION DETAILS	514373
COMPOSITE FIBRE CROSSARMS SPECIFICATION	262732
20mm EYEBOLT LOADING & DEVIATION GRAPH	520324
LV CONDUCTOR TIE & SUPPORT ARRANGEMENTS	514044

NETWORK STANDARD
Ausgrid
145 NEWCASTLE RD WALLSEND, NSW 2287

SCALE	1:20
DESIGNED	PHILLIP JONES
DRAWN	PATRICIA RIOS
CHECKED	PHILLIP JONES
APPROVED	GLENN FORD
DATE	21/08/09
PROJECT NUMBER	NET-STD
PROJTRAK NUMBER	STD

STANDARD CONSTRUCTION
LV HORIZONTAL PIN CONSTRUCTION WITH LV ABC TEE OFF CONSTRUCTION
1-84

SIZE A2 | DRAWING No 206624 | SHEET 01 | AMD 5

20110901

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