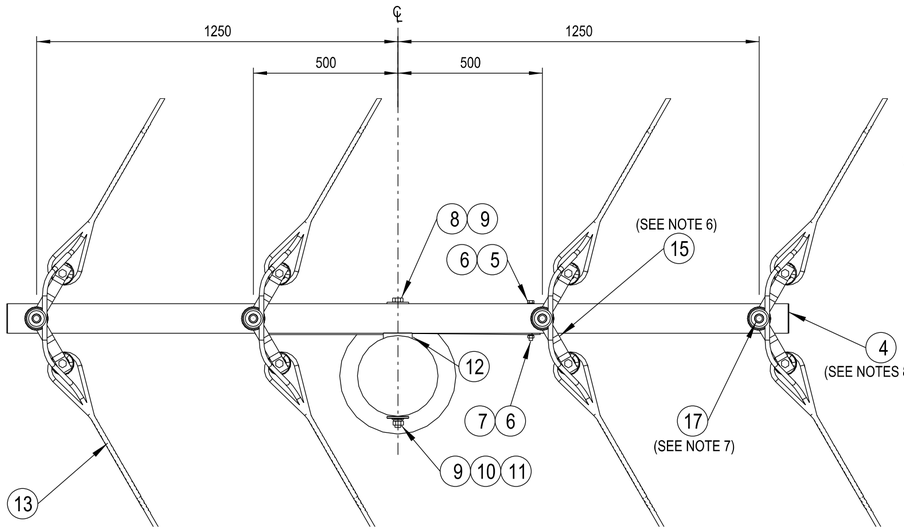
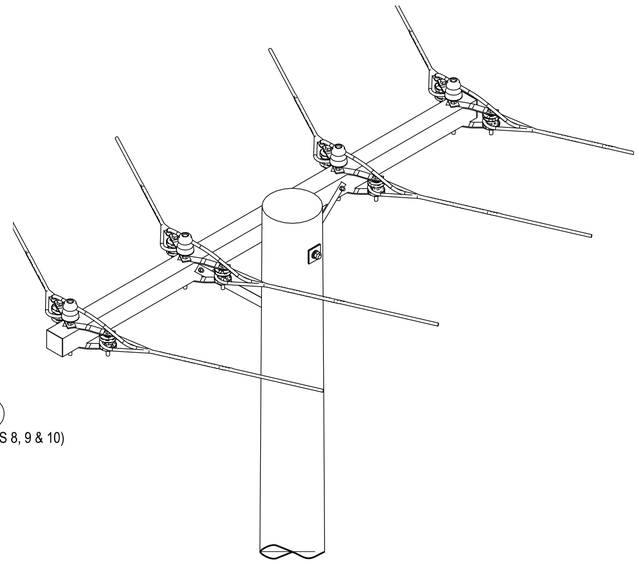
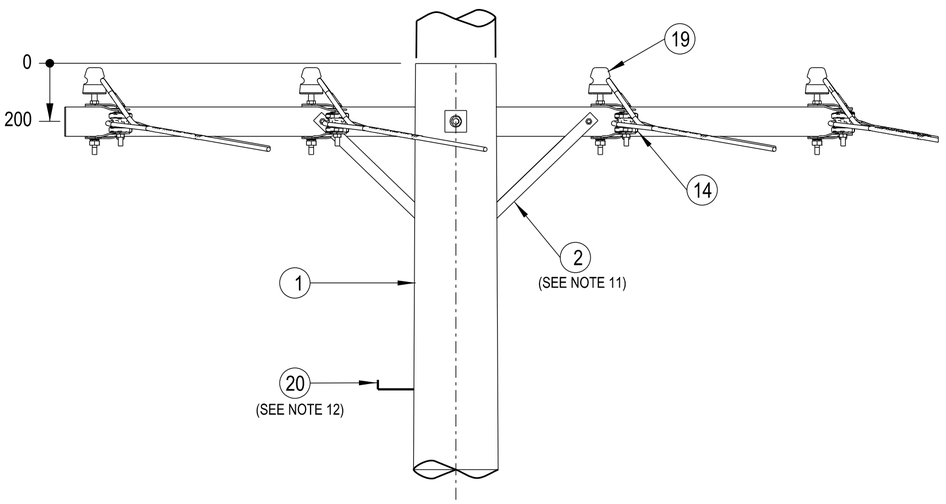
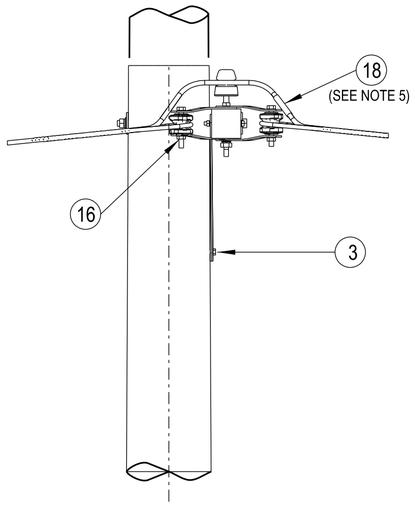


## NOTES :

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. THE MAXIMUM LINE DEVIATION ANGLE TO BE CONSTRUCTED ON THIS ARRANGEMENT IS TO BE DETERMINED BY THE LINE DESIGNER.
3. ALL BOLTS AND INSULATOR PINS PASSING THROUGH TIMBER ARE TO BE COATED WITH GRAPHITE GREASE.
4. POLES SHALL BE DRILLED, SCARFED AND DRESSED ON SITE. DRILLING AND SCARFING TO BE TREATED WITH APPROVED PRESERVATIVES.
5. NON-TENSION COMPRESSION SLEEVES TO BE USED WHEN REQUIRED TO JOIN CONDUCTORS.
6. THE SHACKLE STRAP IS TO BE FORMED TO SUIT THE CROSSARM AND INSULATOR.
7. 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.
8. COMPOSITE FIBRE CROSSARMS ARE TO BE USED AS THE PREFERED OPTION UNDER NORMAL CIRCUMSTANCES.
9. 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.
10. 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.
11. 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.
12. POLE STEPS ARE TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF NS128.
13. REFER TO DESIGNER SAFETY REPORT D22/200897 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.




| ITEM | DESCRIPTION | DRG. No | STOCK CODE | QTY |
|---|---|---|---|---|
| 20 | STEP - POLE, SCREW-IN (SEE NOTE 12) | 250144 | 185198 | A/R |
| 19 | INSULATOR - LV, (LPLV PATTERN 'B') & PIN ARRANGEMENT | 513995 | | 4 |
| 18 | JOINT - NON TENSION, COMPRESSION (TO SUIT CONDUCTOR) (SEE NOTE 5) | 514053 | | 4 |
| 17 | TIE - CONDUCTOR, LOW VOLTAGE, SUPPORT ARRANGEMENT (SEE NOTE 7) | 514044 | | 5m |
| 16 | BOLT & NUT - M16x130mm, HEX., GALVANISED | 515466 | 46979 | 8 |
| 15 | BRACKET - MOUNTING, SHACKLE, LV FLAT, GALVANISED (SEE NOTE 6) | 514379 | H17762 | 16 |
| 14 | INSULATOR - SHACKLE, REEL, TYPE SH.LV2 | 514407 | 75812 | 8 |
| 13 | DEADEND - PREFORMED, HELICAL (TO SUIT CONDUCTOR) | 514098 | | 8 |
| 12 | BLOCK - GAIN, ALUMINIUM, 125mm (USE WITH 2750mm CROSSARM) | | 146282 | 1 |
| | BLOCK - GAIN, ALUMINIUM, 100mm (USE WITH 2706mm, 2406mm, 2106mm, 2700mm, 2100mm & 2400mm CROSSARMS) | | 146274 | |
| 11 | WASHER - FLAT, M20, GALVANISED | 518081 | 177986 | 1 |
| 10 | WASHER - CONICAL, M20, GALVANISED | 518082 | H39655 | 1 |
| 9 | WASHER - SQUARE, 75x75x6mm, GALVANISED (Ø22mm HOLE) | 518081 | H39231 | 2 |
| 8 | BOLT & NUT - M20, HEX., GALVANISED (LENGTH TO SUIT POLE) | 515466 | | 1 |
| 7 | WASHER - CONICAL, M12, GALVANISED (USE WITH 2700mm, 2400mm & 2100mm CROSSARMS) | 518082 | H39639 | 2 |
| | WASHER - SPRING, M12, GALVANISED (USE WITH 2706mm, 2406mm, 2106mm & 2750mm CROSSARMS) | 518082 | H12047 | |
| 6 | WASHER - FLAT, M12, GALVANISED | 518081 | 177982 | 4 |
| 5 | BOLT & NUT - M12x150mm, HEX., GALVANISED (USE WITH 2400mm & 2750mm CROSSARMS) | 515466 | 46847 | 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 | |
| 4 | CROSSARM - 2750x125x125mm, ITEM 1, COMPOSITE FIBRE (SEE NOTES 8, 9 & 10) | 237491 | 183933 | 1 |
| | CROSSARM - 2400x125x100mm, TYPE LT3, HARDWOOD (SEE NOTES 8, 9 & 10) | 15233 | 71746 | |
| | CROSSARM - 2100x150x100mm, TYPE I, HARDWOOD (SEE NOTES 8, 9 & 10) | 514374 | H23745 | |
| | CROSSARM - 2700x150x100mm, TYPE E, HARDWOOD (SEE NOTES 8, 9 & 10) | 514373 | H23892 | |
| | CROSSARM - 2106x102x102mm, TYPE 4, COMPOSITE FIBRE (SEE NOTES 8, 9 & 10) | 262732 | 186774 | |
| | CROSSARM - 2406x102x102mm, TYPE 5, COMPOSITE FIBRE (SEE NOTES 8, 9 & 10) | 262732 | 186775 | |
| | CROSSARM - 2706x102x102mm, TYPE 6, COMPOSITE FIBRE (SEE NOTES 8, 9 & 10) | 262732 | 186776 | |
| 3 | SCREW - COACH, M12 x 100mm, GALVANISED | | H40484 | 1 |
| 2 | BRACE - CROSSARM, FLAT, TYPE L, 490mm, GALVANISED (SEE NOTE 11) | 46 | 76745 | 2 |
| | BRACE - CROSSARM, FLAT, 690mm, GALVANISED (SEE NOTE 11) | 514385 | H17738 | |
| 1 | POLE - TIMBER (AS REQUIRED) | 513988 | | 1 |

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

CAD DRAWING DO NOT MANUALLY AMEND

AMENDMENTS

DWN: P.R.

CHKD: P.J.

APP'D: G.F.

15 DATE: 08/12/2023 NOTES & MATERIAL LIST AMENDED, ASSOCIATED DRAWING ADDED.

| 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 |
| LV CONDUCTOR TIE & SUPPORT ARRANGEMENTS | 514044 |
| WOODEN CROSSARMS FOR 415V OVERHEAD MAINS | 15233 |
| WOODEN CROSSARMS FOR LV, 11kV & 33kV CONSTRUCTION DETAILS | 514374 |

NETWORK STANDARD Ausgrid

145 NEWCASTLE RD WALLSEND, NSW 2287

| | |
|---|---|
| SCALE | 1:15 |
| DESIGNED | - |
| DRAWN | PETER SAUNDERS |
| CHECKED | - |
| APPROVED | ROBERT BREMMELL |
| DATE | 19/04 |
| PROJECT NUMBER | STD |
| PROJTRAK NUMBER | - |

# STANDARD CONSTRUCTION
# LV THROUGH TERMINATION CONSTRUCTION
# 1-11

SIZE A2 | DRAWING No 513904 | SHEET 1 | AMD 15

20110901

513904-1.dgn 12/8/2023 8:02:37 AM