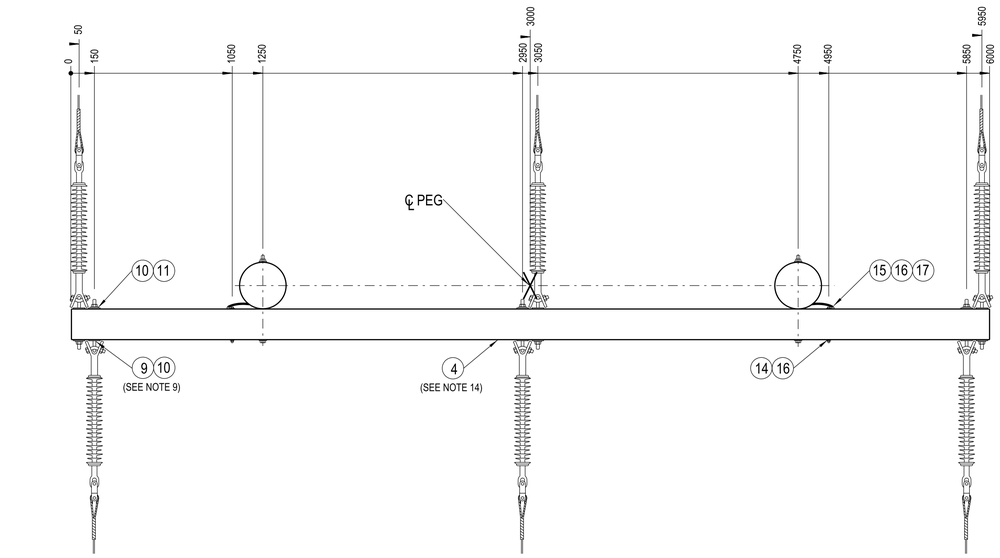

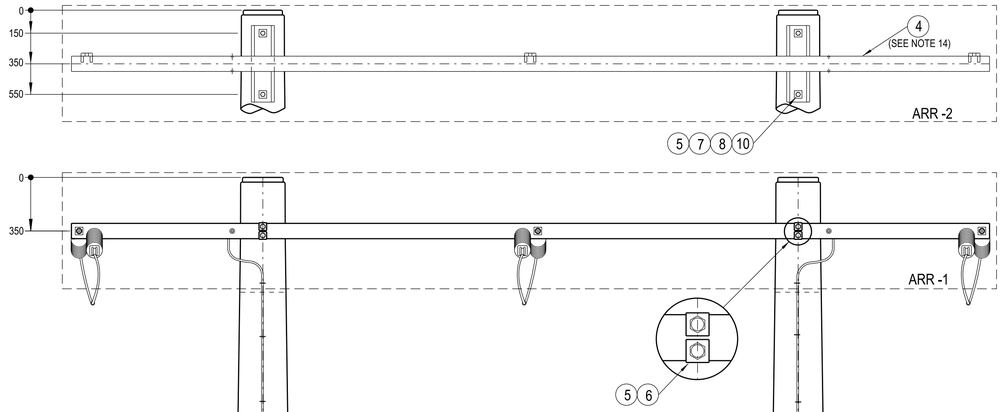

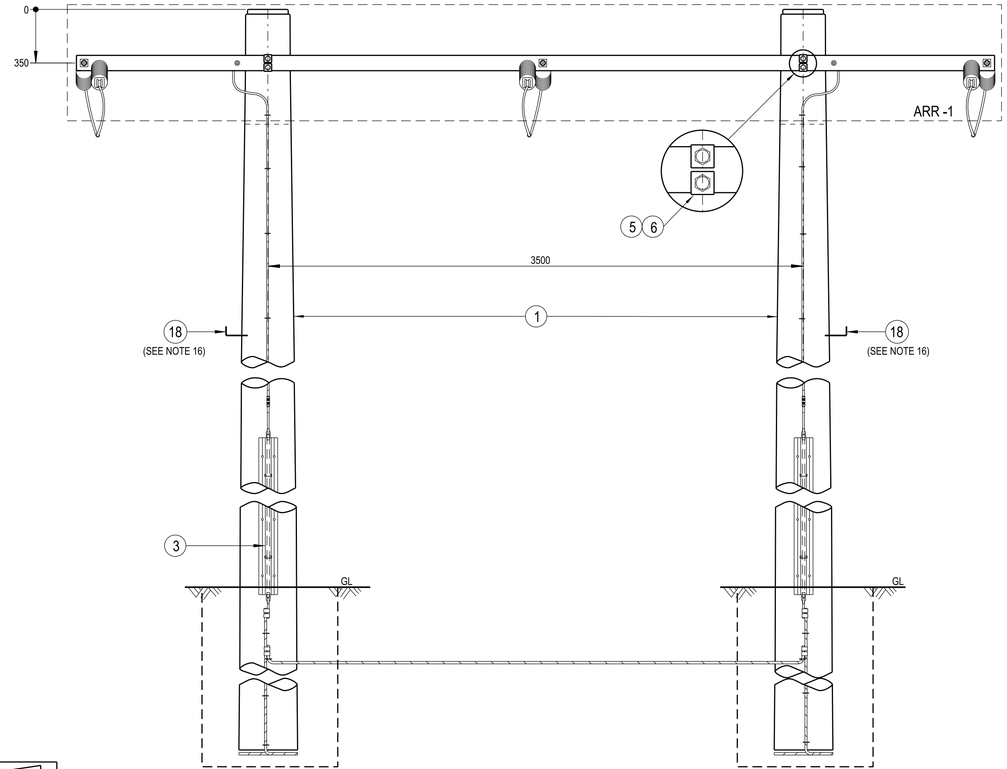

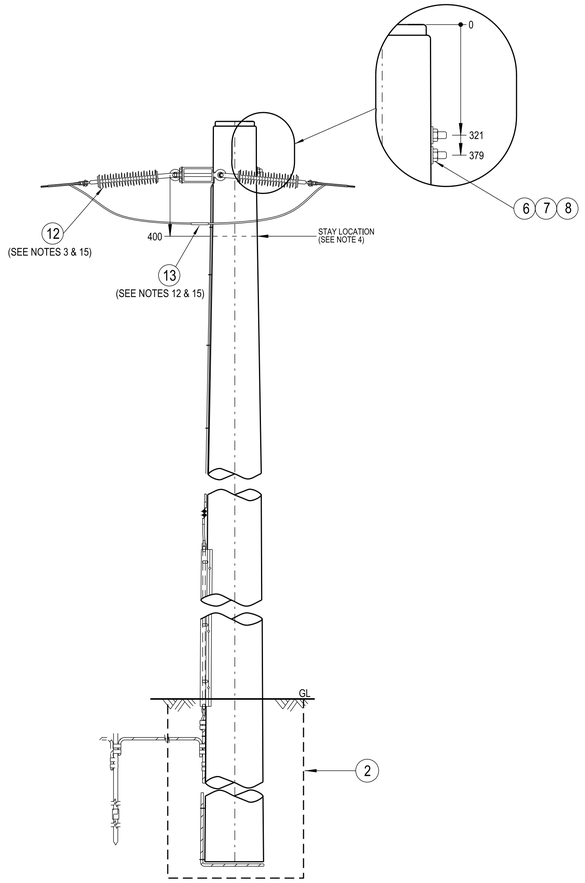

NOTES :

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. PHASE CONDUCTOR SIZE.
   e. STAY REQUIREMENTS.
   f. DEVIATION ANGLE.
   g. ASSESSED EARTHING REQUIREMENTS.
2. THE MAXIMUM LINE DEVIATION ANGLE TO BE CONSTRUCTED ON THIS ARRANGEMENT IS TO BE DETERMINED BY THE LINE DESIGNER.
3. LONGROD INSULATORS TO BE USED UNDER NORMAL CONDITIONS.
4. STAYS TO BE INSTALLED SO THAT THE STAY WIRE CLEARANCE FROM THE PHASE CONDUCTORS COMPLIES WITH THE STATUTORY REQUIREMENTS.
5. THE OVERHEAD EARTH WIRE DOWN LEAD IS TO BE FIXED TO THE POLE SO AS TO GIVE THE MAXIMUM CLEARANCE TO THE NEAREST PHASE CONDUCTOR.
6. ALL BOLTS PASSING THROUGH TIMBER ARE TO BE COATED WITH GRAPHITE GREASE.
7. POLES SHALL BE DRILLED, SCARFED AND DRESSED ON SITE. DRILLING AND SCARFING TO BE TREATED WITH APPROVED PRESERVATIVES.
8. THE EARTHING DOWN LEAD IS TO BE FIXED TO THE POLE WITH STAPLES AT INTERVALS NOT GREATER THAN 450mm. ONLY SUFFICIENT INSULATION IS TO BE REMOVED FROM THE DOWN LEAD TO MAKE AN EFFECTIVE CONNECTION TO THE POLE HARDWARE.
9. THE LOAD AND DEVIATION ALLOWABLE ON THE EYEBOLT IS TO BE DETERMINED FROM DRG: 520324.
10. THE MAXIMUM LINE DEVIATION FOR THIS STRUCTURE IS 80° WITH THE CROSSARM BISECTING THE LINE ANGLE.
11. THE STRUCTURE SHALL BE ERECTED SO THE POLES ARE VERTICAL, AND THE CROSSARM MOUNTED HORIZONTAL.
12. NON TENSION COMPRESSION JOINTS TO BE USED WHEN REQUIRED TO JOIN CONDUCTORS.
13. THE CONDUCTOR TAPPINGS ARE TO BE INSTALLED TO ENSURE A MINIMUM PHASE TO EARTH CLEARANCE OF 700mm IS MAINTAINED.
14. ARRANGEMENT 2 IS TO BE USED WHEN THE MAXIMUM LOAD OF THE EYEBOLTS IN ARRANGEMENT 1 IS EXCEEDED.
15. ONLY THE SINGLE PHASE CONDUCTOR OPTION IS SHOWN ON THIS CONSTRUCTION DRAWING.
16. POLE STEPS SHOULD ONLY BE INSTALLED ON POLES WHERE ACCESS FOR NORMAL MAINTENANCE VEHICLES CANNOT BE MAINTAINED FOR THE LIFE OF THE POLE. IF POLE STEPS ARE INSTALLED, THEY ARE TO COMPLY WITH THE REQUIREMENTS OF NETWORK STANDARD NS128.
17. REFER TO DESIGNER SAFETY REPORT D20/322255 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.

ITEM	DESCRIPTION	DRG. No	ARR-1 QTY	ARR-2 QTY
18	STEP - POLE, SCREW-IN (SEE NOTE 16)	250144	A/R	A/R
17	WASHER - SPRING, M12, GALVANISED	518082	2	2
16	WASHER - FLAT, M12, GALVANISED	518081	4	4
15	LUG - EARTHWIRE BONDING, TINNED BRASS (Ø14mm HOLE)	13978	2	2
14	BOLT & NUT - M12x240mm, HEX., GALVANISED	515466	2	2
13	JOINT - COMPRESSION, NON TENSION (TO SUIT DUAL CONDUCTOR) (SEE NOTES 12 & 15)	514053	6	6
	JOINT - COMPRESSION, NON TENSION (TO SUIT CONDUCTOR) (SEE NOTES 12 & 15)	514053	3	3
12	INSULATOR - LONGROD, 66kV, DUAL CONDUCTOR, POLYMERIC STRING, ARRANGEMENT -5 (SEE NOTES 3 & 15)	244700		6
	INSULATOR - LONGROD, 66kV, DUAL CONDUCTOR, POLYMERIC STRING, ARRANGEMENT -2 (SEE NOTES 3 & 15)	244700	6	
	INSULATOR - LONGROD, 66kV, POLYMERIC STRING, ARRANGEMENT -5 (SEE NOTES 3 & 15)	166231		6
	INSULATOR - LONGROD, 66kV, POLYMERIC STRING, ARRANGEMENT -2 (SEE NOTES 3 & 15)	166231	6	
11	WASHER - SPRING, M20, GALVANISED	518082	6	
10	WASHER - SQUARE, 75x75x6mm, GALVANISED (Ø22mm HOLE)	518081	12	8
9	EYEBOLT - M20x350mm, GALVANISED (SEE NOTE 9)	513653	6	
8	WASHER - FLAT, M20, GALVANISED	518081	4	4
7	WASHER - CONICAL, M20, GALVANISED	518082	4	4
6	WASHER - SQUARE, 50x50x6mm, GALVANISED (Ø22mm HOLE)	518081	8	
5	BOLT & NUT - M20, HEX., GALVANISED (LENGTH TO SUIT POLE)	515466	4	4
4	CROSSARM - 'H' POLE ALTERNATE TERMINATION, 6000x200x100x9mm, RHS, GALVANISED (SEE NOTE 14)	563058		1
	CROSSARM - 'H' POLE TERMINATION, 6000x200x100x9mm, RHS, GALVANISED (SEE NOTE 14)	514378	1	
3	EARTHING - ARRANGEMENT, MULTIPLE TIMBER POLE STRUCTURE	520225	1	1
2	FOOTING - TIMBER POLE, ARRANGEMENT (SEE NOTE 1)	508726	2	2
1	POLE - TIMBER (AS REQUIRED)	513988	2	2

DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE. DO NOT SCALE.

CAD DRAWING DO NOT MANUALLY AMEND

AMENDMENTS

8 DWN: PATRICIA RIOS | CHKD: PHILLIP JONES | DATE: 17/08/2020 | AUSGRID BORDER APPLIED. SHEET SIZE CHANGED. INSULATORS & OHEW AMENDED. NOTES, TITLE & MATERIAL LIST UPDATED. | APPD by: GLENN FORD

ASSOCIATED DRAWINGS

20mm EYEBOLT LOADING & DEVIATION GRAPH	520324

NETWORK STANDARD

Ausgrid

145 NEWCASTLE RD WALLSEND, NSW 2287

SCALE	1:20
DESIGNED	-
DRAWN	PETER SAUNDERS
CHECKED	-
APPROVED	R.BREMMELL
DATE	05/12/95
PROJECT NUMBER	STD
PROJTRAK NUMBER	-

STANDARD CONSTRUCTION 66kV H POLE TERMINATION CONSTRUCTION 5-21

SIZE A1 | DRAWING No 511786 | SHEET 01 | AMD 8

20110901