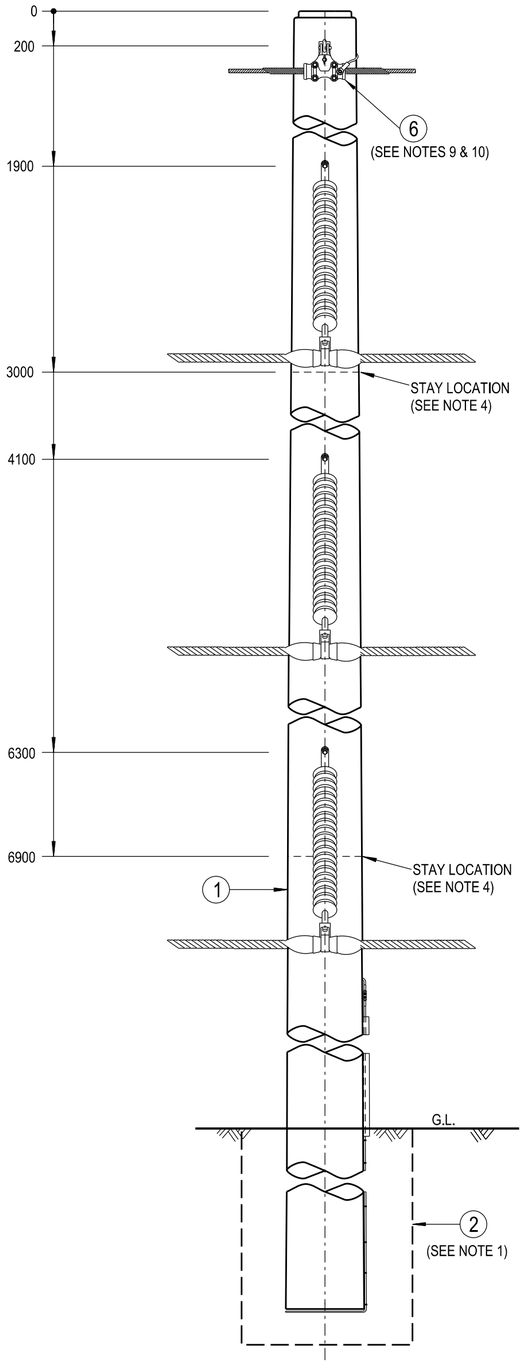

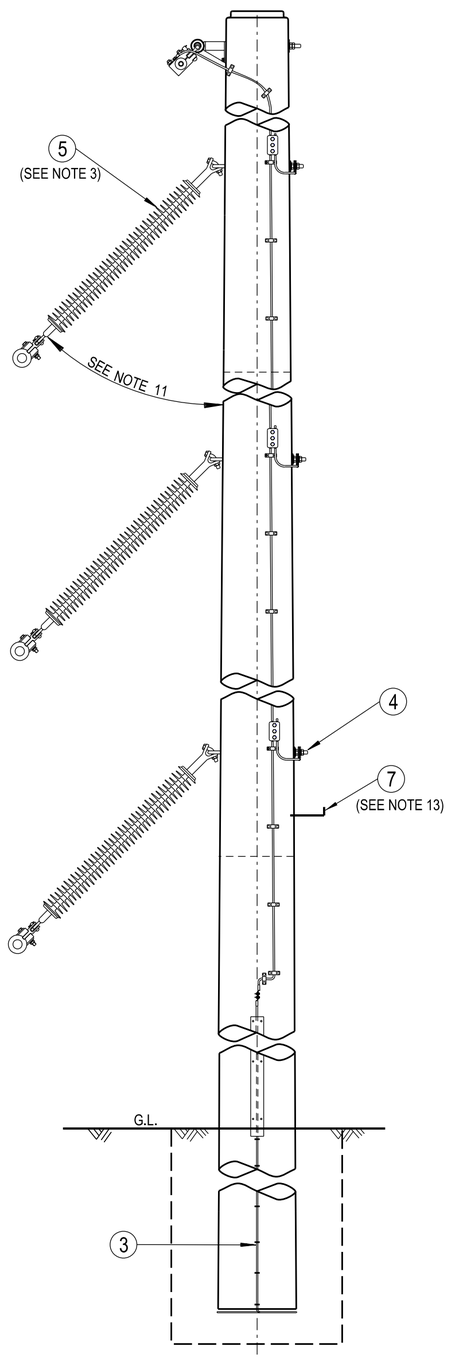

NOTES :

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 AND OVERHEAD EARTHWIRE 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 EARTHWIRE DOWN LEAD IS TO BE FIXED TO THE POLE SO AS TO GIVE THE MAXIMUM CLEARANCE TO THE NEAREST PHASE CONDUCTOR.
6. ALL BOLTS AND EYEBOLTS 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 DOUBLE SIDED GALVANISED STEEL SADDLES AT INTERVALS NOT GREATER THAN 450mm.
9. ONLY THE OPGW OVERHEAD EARTHWIRE OPTION IS SHOWN ON THIS CONSTRUCTION DRAWING.
10. USE THE OPGW SUSPENSION ARRANGEMENT WHEN ERECTING AN OPGW OVERHEAD EARTHWIRE.
    USE THE STANDARD EARTHWIRE SUSPENSION ARRANGEMENT WHEN ERECTING A NON OPGW OVERHEAD EARTHWIRE.
11. A MINIMUM INSULATOR RADIAL SWING ANGLE MUST BE MAINTAINED TO ENSURE THE MINIMUM 132kV PHASE TO EARTH CLEARANCE OF 1.3m IS OBSERVED.
12. EYEBOLTS TO BISECT THE ANGLE OF DEVIATION. THE LOAD AND DEVIATION ALLOWABLE ON THE EYEBOLT IS TO BE DETERMINED FROM DRG: 520324.
13. 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.
14. REFER TO DESIGNER SAFETY REPORT D25/156950 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.

ITEM	DESCRIPTION	DRG. No	QTY
7	STEP - POLE, SCREW-IN (SEE NOTE 13)	250144	A/R
6	EARTHWIRE - SUSPENSION, OVERHEAD, MOUNTING, ARRANGEMENT -1b (SEE NOTES 9 & 10)	514157	1
	OPGW - SUSPENSION, CONDUCTOR, MOUNTING, ARRANGEMENT -1b (SEE NOTES 9 & 10)	565744	
5	INSULATOR - LONGROD, 132kV, POLYMERIC STRING, ARRANGEMENT -1 (SEE NOTES 3)	520314	3
4	EARTHWIRE - OVERHEAD, DOWNLEAD, POLE HARDWARE, MOUNTING & BONDING, ARRANGEMENT -2	514145	3
3	EARTHING - ARRANGEMENT, TIMBER POLE STRUCTURE, TYPE SE-M5	508786	1
2	FOOTING - TIMBER POLE, ARRANGEMENT (SEE NOTE 1)	508726	1
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:	CHKED:	APP'D by:	DWN:	CHKD:	APP'D:	
DATE: 12/12/2017 DRAWING NUMBER UPDATED. DRAWING BORDER UPDATED. DISCS CHANGED TO LONGRODS. NOTES & MATERIAL LIST AMENDED. OPGW SHOWN.	PATRICIA RIOS	PHILLIP JONES	DOMINIC SHIELDS	P.R.	J.	G.F.	1
DATE: 15/07/2025 POLE STEPS, PG CLAMPS & SADDLES CHANGED. NOTES & MATERIAL LIST MODIFIED.							2

ASSOCIATED DRAWINGS

20mm EYEBOLT LOADING & DEVIATION GRAPH	520324

NETWORK STANDARD
Ausgrid
145 NEWCASTLE RD WALLSEND, NSW 2287

SCALE	1:25
DESIGNED	-
DRAWN	P.S.
CHECKED	P.A.S.
APPROVED	I.NICHOLS
DATE	29/07/94
PROJECT NUMBER	STD
PROJTRAK NUMBER	

STANDARD CONSTRUCTION
132kV FLYING ANGLE CONSTRUCTION WITH OVERHEAD EARTHWIRE
6-210E

SIZE A2 | DRAWING No 514198 | SHEET 1 | AMD 2

20110901

514198-1.dgn 7/15/2025 4:42:15 PM