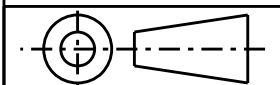


- NOTES :**
- THE FOLLOWING INFORMATION IS OBTAINED FROM THE PROJECT DESIGN DRAWINGS :
    - POLE LENGTH AND STRENGTH.
    - SPECIAL FOUNDATION REQUIREMENTS.
    - POLE EMBEDMENT DEPTH.
    - PHASE CONDUCTOR AND OVERHEAD EARTHWIRE SIZE.
    - STAY REQUIREMENTS.
    - DEVIATION ANGLE.
    - ASSESSED EARTHING REQUIREMENTS.
  - THE MAXIMUM LINE DEVIATION ANGLE TO BE CONSTRUCTED ON THIS ARRANGEMENT IS TO BE DETERMINED BY THE LINE DESIGNER.
  - LONGROD INSULATORS TO BE USED UNDER NORMAL CONDITIONS.
  - STAYS TO BE INSTALLED SO THAT THE STAY WIRE CLEARANCE FROM THE PHASE CONDUCTORS COMPLIES WITH THE STATUTORY REQUIREMENTS.
  - THE OVERHEAD EARTHWIRE DOWN LEAD IS TO BE FIXED TO THE POLE SO AS TO GIVE THE MAXIMUM CLEARANCE TO THE NEAREST PHASE CONDUCTOR.
  - ALL BOLTS AND EYEBOLTS PASSING THROUGH TIMBER ARE TO BE COATED WITH GRAPHITE GREASE.
  - POLES SHALL BE DRILLED, SCARFED AND DRESSED ON SITE. DRILLING AND SCARFING TO BE TREATED WITH APPROVED PRESERVATIVES.
  - THE EARTHING DOWN LEAD IS TO BE FIXED TO THE POLE WITH DOUBLE SIDED GALVANISED STEEL SADDLES AT INTERVALS NOT GREATER THAN 450mm.
  - ONLY THE SINGLE PHASE CONDUCTOR WITH OPGW OVERHEAD EARTHWIRE OPTION IS SHOWN ON THIS CONSTRUCTION DRAWING.
  - USE THE OPGW SUSPENSION ARRANGEMENT WHEN ERECTING AN OPGW OVERHEAD EARTHWIRE.  
USE THE STANDARD EARTHWIRE SUSPENSION ARRANGEMENT WHEN ERECTING A NON OPGW OVERHEAD EARTHWIRE.
  - A MINIMUM INSULATOR RADIAL SWING ANGLE MUST BE MAINTAINED TO ENSURE THE MINIMUM 66kV PHASE TO EARTH CLEARANCE OF 690mm IS OBSERVED.
  - EYEBOLTS TO BISECT THE ANGLE OF DEVIATION. THE LOAD AND DEVIATION ALLOWABLE ON THE EYEBOLT IS TO BE DETERMINED FROM DRG: 520324.
  - 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.
  - REFER TO DESIGNER SAFETY REPORT D25/156617 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.


|      |   |         |     |
|------|---|---------|-----|
| 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, 66kV, DUAL CONDUCTOR, POLYMERIC STRING, ARRANGEMENT -1 (SEE NOTES 3 & 9) | 244700  | 3   |
|      | INSULATOR - LONGROD, 66kV, POLYMERIC STRING, ARRANGEMENT -1 (SEE NOTES 3 & 9)                 | 166231  |     |
| 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   |
| ITEM | DESCRIPTION   | DRG. No | QTY |



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

|                                      |            |                    |                     |   |                     |           |            |            |  |
|--------------------------------------|------------|--------------------|---------------------|---|---------------------|-----------|------------|------------|--|
| CAD DRAWING<br>DO NOT MANUALLY AMEND | AMENDMENTS | DWN: PATRICIA RIOS | CHKD: PHILLIP JONES | DATE: 23/08/2018<br>DRAWING NUMBER UPDATED.<br>STOCK CODES REMOVED.<br>DISCS CHANGED TO<br>LONGRODS. AUSGRID<br>BORDER APPLIED. DUAL<br>CONDUCTOR OPTION ADDED. | APPD BY: GLENN FORD | DWN: P.R. | CHKD: P.J. | APPD: G.F. | DATE: 15/07/2025<br>POLE STEPS, PG CLAMPS &<br>SADDLES CHANGED. NOTES<br>& MATERIAL LIST MODIFIED. |
| 1                                    |            |                    |                     |   |                     |           |            |            | 2  |

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|  |        |
| 20mm EYEBOLT LOADING & DEVIATION GRAPH | 520324 |
| ASSOCIATED DRAWINGS                    |        |

|   |                 |                |   |                      |            |          |
|---|-----------------|----------------|---|----------------------|------------|----------|
| <br>NETWORK STANDARD<br>145 NEWCASTLE RD WALLSEND,<br>NSW 2287 | SCALE           | 1:25           | STANDARD CONSTRUCTION<br>66kV FLYING ANGLE CONSTRUCTION<br>WITH OVERHEAD EARTHWIRE<br>5-160 E |                      |            |          |
|   | DESIGNED        | -              |   |                      |            |          |
|   | DRAWN           | PETER SAUNDERS |   |                      |            |          |
|   | CHECKED         | R.M            |   |                      |            |          |
|   | APPROVED        | D.GRIFFITHS    |   |                      |            |          |
|   | DATE            | 27/03/91       |   |                      |            |          |
|   | PROJECT NUMBER  | STD            |   |                      |            |          |
|   | PROJTRAK NUMBER | -              | SIZE<br>A2  | DRAWING No<br>514153 | SHEET<br>1 | AMD<br>2 |