



- 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 STAYWIRE 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 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. EYEBOLTS ARE TO BE INSTALLED IN THE DIRECTION OF THE OVERHEAD CONDUCTORS.
 11. LINE POST INSULATORS ARE TO BE FITTED WHERE LINE DEVIATION IS LESS THAN 90°.
 12. NON-TENSION COMPRESSION JOINTS TO BE USED WHEN REQUIRED TO JOIN PHASE CONDUCTORS.
 13. ONLY THE OPGW THROUGH TERMINATION OVERHEAD EARTHWIRE OPTION IS SHOWN ON THIS CONSTRUCTION DRAWING.
 14. USE THE OPGW THROUGH TERMINATION ARRANGEMENT WHEN ERECTING AN UNBROKEN OPGW OVERHEAD EARTHWIRE.
USE THE OPGW THROUGH SPLICE BOX TERMINATION ARRANGEMENT WHEN BREAKING AN OPGW OVERHEAD EARTHWIRE.
USE THE STANDARD EARTHWIRE TERMINATION ARRANGEMENT WHEN ERECTING A NON OPGW OVERHEAD EARTHWIRE.
 15. WHEN USING THE OPGW THROUGH SPLICE BOX TERMINATION ARRANGEMENT, REFER TO DRG : 565743 FOR SPLICE BOX AND COILED CABLE BRACKET MOUNTING DETAILS.
 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 NS135.

| 10 | STEP - POLE (SEE NOTE 16) | 517698 | A/R |
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| 9 | JOINT - COMPRESSION, NON TENSION (TO SUIT CONDUCTOR) (SEE NOTE 12) | 514053 | 3 |
| 8 | EARTHWIRE - TERMINATION, OVERHEAD, MOUNTING, ARRANGEMENT -1A (SEE NOTES 13 & 14) | 519450 | 1 |
| | OPGW - TERMINATION, CONDUCTOR, MOUNTING, ARRANGEMENT -1C (SEE NOTES 13, 14 & 15) | 565747 | |
| | OPGW - TERMINATION, CONDUCTOR, MOUNTING, ARRANGEMENT -1A (SEE NOTES 13 & 14) | 565747 | |
| 7 | EARTHWIRE - OVERHEAD, DOWN LEAD, POLE HARDWARE, MOUNTING & BONDING, ARRANGEMENT -2 | 514145 | 6 |
| 6 | INSULATOR - LONGROD, 132kV, POLYMERIC STRING, ARRANGEMENT -2 (SEE NOTE 3) | 520314 | 6 |
| 5 | EARTHWIRE - OVERHEAD, DOWN LEAD, POLE HARDWARE, MOUNTING & BONDING, ARRANGEMENT -4 | 514145 | 3 |
| 4 | INSULATOR - HORIZONTAL LINE POST, 132kV, MOUNTING & BONDING, ARRANGEMENT -1 | 514161 | 3 |
| 3 | FOOTING - TIMBER POLE, ARRANGEMENT (SEE NOTE 1) | 508726 | 1 |
| 2 | EARTHING - ARRANGEMENT, TIMBER POLE STRUCTURE, TYPE SE-M5 | 508786 | 1 |
| 1 | POLE - TIMBER (AS REQUIRED) | 513988 | 1 |
| ITEM | DESCRIPTION | DRG. No | QTY |

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

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|---|---------------------------|------------------|---|
| CAD DRAWING DO NOT MANUALLY AMEND A M E N D M E N T S | DWN: PATRICIA RIOS | DATE: 14/11/2011 | APP'D: GLENN FORD |
| DWN: PATRICIA RIOS | CHKD: PHILLIP JONES | DATE: 08/12/2017 | NOTES & MATERIAL LIST AMENDED. INSULATORS UPDATED. OPGW OPTION SHOWN. |
| CHKD: PHILLIP JONES | APP'D by: DOMINIC SHIELDS | | |
| APP'D: GLENN FORD | | | |

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| OPGW CONDUCTOR SPLICE BOX & COILED CABLE BRACKET MTG ARRANGEMENT | 565743 |
| 20mm EYEBOLT LOADING & DEVIATION GRAPH | 520324 |
| ASSOCIATED DRAWINGS | |

NETWORK STANDARD

 145 NEWCASTLE RD WALLSEND,
 NSW 2287

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|-----------------|-----------|---|
| SCALE | 1:25 | STANDARD CONSTRUCTIONS 132kV VERTICAL TERMINATION CONSTRUCTION WITH OVERHEAD EARTHWIRE 6-220E |
| DESIGNED | - | |
| DRAWN | P.S. | |
| CHECKED | P.A.S. | |
| APPROVED | I.NICHOLS | |
| DATE | 29/07/94 | |
| PROJECT NUMBER | STD | |
| PROJTRAK NUMBER | - | |
| SIZE | A2 | DRAWING No |
| | | 514199 |
| SHEET | 01 | |
| AMD | 2 | |