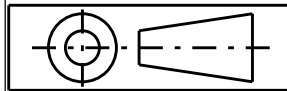


- NOTES :**
- THE FOLLOWING INFORMATION IS OBTAINED FROM THE CONSTRUCTION SCHEDULE :
    - POLE LENGTH AND STRENGTH.
    - SPECIAL FOUNDATION REQUIREMENTS.
    - POLE EMBEDMENT DEPTH.
    - PHASE CONDUCTOR AND OVERHEAD EARTH WIRE SIZE.
    - VARIATIONS TO STANDARD CROSSARM REQUIREMENTS.
    - STAY REQUIREMENTS.
    - DEVIATION ANGLE.
    - ASSESSED EARTHING REQUIREMENTS.
  - OVERHEAD EARTH WIRE BRACKET TO BE INSTALLED ON THE OUTSIDE FACE OF THE POLE AT ANGLE STRUCTURES.
  - ALL BOLTS AND INSULATOR PINS PASSING THROUGH TIMBER ARE TO BE COATED WITH GRAPHITE GREASE.
  - 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.
  - THE MAXIMUM LINE DEVIATION ANGLE TO BE CONSTRUCTED ON THIS ARRANGEMENT IS TO BE DETERMINED BY THE LINE DESIGNER.
  - 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 STAPLES AT INTERVALS OF NOT GREATER THAN 450mm. THE CONNECTION OF THE DOWN LEAD TO THE CROSSARM WILL BE BY AN EARTH CLIP. ONLY SUFFICIENT INSULATION WILL BE REMOVED FROM THE DOWN LEAD TO MAKE AN EFFICIENT TERMINATION.
  - 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 : 514038.
  - USE THE 33/920 AERODYNAMIC PIN INSULATOR ARRANGEMENT WHERE THE CONSTRUCTION IS LOCATED WITHIN 1km OF THE COAST OR IN A VERY HIGH POLLUTION AREA.
  - WHEN DESIGNING UNDERBUILT CIRCUITS ON A 33kV STRUCTURE, THE POSSIBLE USE OF LIVE LINE WORKING PROCEDURES MUST BE CONSIDERED WHEN NOMINATING THE CIRCUIT SEPARATION TO ALLOW A MINIMUM CLEARANCE OF 2500mm IF REQUIRED.

|    |   |        |    |
|----|---|--------|----|
| 17 | WASHER - CONICAL, M20, STAINLESS STEEL                          | 518082 | 2  |
| 16 | SUSPENSION - OHEW, ARRANGEMENT-1 (SEE NOTE 2)                   | 513974 | 1  |
| 15 | CROSSARM - 1350x100x100mm, TYPE D, HARDWOOD OR LAMINATED VENEER | 514375 | 1  |
| 14 | TIE - CONDUCTOR, HIGH VOLTAGE, SUPPORT ARRANGEMENT              | 514038 | 4m |
| 13 | INSULATOR - 33kV AERODYNAMIC, (33/920) & PIN ARRANGEMENT        | 514006 | 3  |
|    | INSULATOR - 33kV AERODYNAMIC, (33/710) & PIN ARRANGEMENT        | 513998 | 3  |
| 12 | DOWNLEAD - OHEW, POLE MOUNTING & BONDING ARR -4                 | 514145 | 2  |
| 11 | BLOCK - GAIN, ALUMINIUM, 100mm (S/C 146274)                     |        | 2  |
| 10 | WASHER - SQUARE, 75x75x6mm, GALVANISED (Ø22mm HOLE)             | 518081 | 4  |
| 9  | BOLT & NUT - M20, HEX., GALVANISED (LENGTH TO SUIT POLE)        | 515466 | 2  |
| 8  | WASHER - CONICAL, M12, STAINLESS STEEL                          | 518082 | 4  |
| 7  | WASHER - FLAT, M12, GALVANISED                                  | 518081 | 4  |
| 6  | BOLT & NUT - M12x130mm, HEX., GALVANISED                        | 515466 | 4  |
| 5  | CROSSARM - 2700x100x100mm, TYPE B, HARDWOOD OR LAMINATED VENEER | 514373 | 1  |
| 4  | SCREW - COACH, M12x100mm, GALVANISED ( S/C H40484)              |        | 2  |
| 3  | BRACE - CROSSARM, FLAT, 690mm, GALVANISED                       | 514385 | 4  |
| 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.

|  |  |                      |
|--|--|----------------------|
| CAD DRAWING<br>DO NOT MANUALLY AMEND<br>AMENDMENTS | DWN: PATRICIA RIOS                                 | APP'D by: GLENN FORD |
|  | CHKD: PHILLIP JONES                                |                      |
| 10   | DATE: 22/12/2010                                   | APP'D by: GLENN FORD |
|  | SECOND BRACE ADDED TO TOP CROSSARM. NOTES AMENDED. |                      |
| 11   | DATE: 17/10/2013                                   | APP'D by: GLENN FORD |
|  | AUSGRID BORDER APPLIED.                            |                      |

NETWORK STANDARD

145 NEWCASTLE ROAD  
WALLSEND NSW 2287  
PHONE: 02 4951 9388  
FAX: 02 4951 9389

|              |                |
|--------------|----------------|
| DESIGNED     | -              |
| DRAWN        | PETER SAUNDERS |
| CHECKED      | -              |
| AUTHORISED   | I.NICHOLS      |
| DATE         | 26/04/96       |
| SCALE        | 1:25           |
| MAP REF.     |                |
| LGA          |                |
| PROJECT No.  | STD            |
| PROJTRAK No. | -              |

|  |                             |
|--|-----------------------------|
| <b>STANDARD CONSTRUCTION<br/>33kV DELTA CONSTRUCTION WITH<br/>OVERHEAD EARTH WIRE<br/>4-8E</b> |                             |
| SIZE<br><b>A3</b>  | DRAWING No<br><b>513928</b> |
| SHEETS<br>01 of 1  | AMD.<br>11                  |