



**NOTES :**

1. THE FOLLOWING INFORMATION IS OBTAINED FROM THE CONSTRUCTION SCHEDULE :
  - a. POLE LENGTH AND STRENGTH.
  - b. SPECIAL FOUNDATION REQUIREMENTS.
  - c. POLE EMBEDMENT DEPTH.
  - d. PHASE CONDUCTOR AND OVERHEAD EARTH WIRE SIZE.
  - e. VARIATIONS TO STANDARD CROSSARM REQUIREMENTS.
  - f. STAY REQUIREMENTS.
  - g. DEVIATION ANGLE.
  - h. ASSESSED EARTHING REQUIREMENTS.
2. 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.
3. THE MAXIMUM LINE DEVIATION ANGLE TO BE CONSTRUCTED ON THIS ARRANGEMENT IS TO BE DETERMINED BY THE LINE DESIGNER.
4. 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.
5. POLES SHALL BE DRILLED, SCARFED AND DRESSED ON SITE. DRILLING AND SCARFING TO BE TREATED WITH APPROVED PRESERVATIVES.
6. ALL BOLTS PASSING THROUGH TIMBER ARE TO BE COATED WITH GRAPHITE GREASE.
7. 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.

|   |   |        |   |
|---|---|--------|---|
| 5 | EARTHWIRE - OVERHEAD, SUSPENSION ARRANGEMENT -1b                          | 514157 | 1 |
| 4 | EARTHWIRE - OVERHEAD, DOWNLEAD HARDWARE MOUNTING & BONDING, ARR -4        | 514145 | 3 |
| 3 | INSULATOR - 66kV HORIZONTAL LINE POST, MOUNTING & BONDING ARRANGEMENT -1a | 514161 | 3 |
| 2 | EARTHING - ARRANGEMENT, TIMBER POLE STRUCTURE, TYPE SE-M5                 | 508786 | 1 |
| 1 | POLE - TIMBER (AS REQUIRED)   | 513988 | 1 |

| ITEM | DESCRIPTION | DRG. No | QTY |
|------|-------------|---------|-----|
|------|-------------|---------|-----|

CAD DRAWING  
DO NOT MANUALLY AMEND  
AMENDMENTS  
DWN: GARY HUGHES  
CHKD: GARRY CRAIG  
DATE: 15/10/2013  
AUSGRID BORDER APPLIED.  
APP'D by: GLENN FORD

NETWORK STANDARD  
**Ausgrid**  
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|              |                |
|--------------|----------------|
| DESIGNED     | PHIL JONES     |
| DRAWN        | PATRICIA RIOS  |
| CHECKED      | PHIL JONES     |
| AUTHORISED   | STEPHEN CONNOR |
| DATE         | 20/12/07       |
| SCALE        | 1:25           |
| MAP REF.     |                |
| LGA          |                |
| PROJECT No.  | STD            |
| PROJTRAK No. | STD            |

**STANDARD CONSTRUCTION  
33kV VERTICAL CONSTRUCTION  
WITH OVERHEAD EARTHWIRE  
4-240E**

|           |               |                |          |
|-----------|---------------|----------------|----------|
| SIZE      | DRAWING No    | SHEETS         | AMD.     |
| <b>A3</b> | <b>185419</b> | <b>01 of 1</b> | <b>1</b> |