



- NOTES :**
- THE FOLLOWING INFORMATION IS OBTAINED FROM THE PROJECT DESIGN DRAWINGS :
    - POLE LENGTH AND STRENGTH.
    - SPECIAL FOUNDATION REQUIREMENTS.
    - POLE EMBEDMENT DEPTH.
    - PHASE CONDUCTOR 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.
  - THE LOAD AND DEVIATION ALLOWABLE ON THE EYEBOLT IS TO BE DETERMINED FROM DRG : 520324.
  - 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.
  - LONGROD INSULATORS TO BE USED UNDER NORMAL CONDITIONS.
  - POLES SHALL BE DRILLED, SCARFED AND DRESSED ON SITE. DRILLING AND SCARFING TO BE TREATED WITH APPROVED PRESERVATIVES.
  - EYEBOLTS TO BE INSTALLED TO BISECT THE ANGLE OF DEVIATION.
  - THE MINIMUM INSULATOR RADIAL SWING ANGLE IS 35°, WHICH ENSURES THE MINIMUM PHASE TO EARTH CLEARANCE OF 380mm IS MAINTAINED.
  - ALL BOLTS PASSING THROUGH TIMBER ARE TO BE COATED WITH GRAPHITE GREASE.
  - STAYS TO BE INSTALLED SO THAT THE STAYWIRE CLEARANCE FROM THE PHASE CONDUCTORS COMPLIES WITH THE STATUTORY REQUIREMENTS.
  - ONLY THE SINGLE PHASE CONDUCTOR OPTION IS SHOWN ON THIS CONSTRUCTION DRAWING.
  - 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 NS135.

ITEM	DESCRIPTION	DRG. No	QTY
8	STEP - POLE, SCREW-IN (SEE NOTE 12)	250144	A/R
7	WASHER - SQUARE, 75x75x6mm, GALVANISED (Ø22mm HOLE)	518081	6
6	WASHER - FLAT, M20, GALVANISED	518081	3
5	WASHER - CONICAL, M20, GALVANISED	518082	3
4	EYEBOLT - M20, GALVANISED (LENGTH TO SUIT POLE)	513653	3
3	INSULATOR - LONGROD, 33kV, DUAL CONDUCTOR, STRING ARRANGEMENT -1A (SEE NOTES 5 & 11)	250120	3
	INSULATOR - LONGROD, 33kV, STRING ARRANGEMENT -1 (SEE NOTES 5 & 11)	158754	
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  
A M E N D M E N T S  
DWN: PATRICIA RIOS  
CHKD: PHILLIP JONES  
DATE: 09/04/2020  
AUSGRID BORDER APPLIED.  
NOTES & MATERIAL LIST  
UPDATED. ARRANGEMENT  
UPDATED.  
APP'D by: GLENN FORD

NETWORK STANDARD  
**Ausgrid**  
145 NEWCASTLE RD WALLSEND,  
NSW 2287

SCALE	1:25	STANDARD CONSTRUCTION 33kV VERTICAL ANGLE POLE CONSTRUCTION 4-34			
DESIGNED	-				
DRAWN	P.S				
CHECKED	-				
APPROVED	G SKINNER				
DATE	12/09/97				
PROJECT NUMBER	STD	SIZE	DRAWING No	SHEET	AMD
PROJTRAK NUMBER	-	A3	520409	01	3