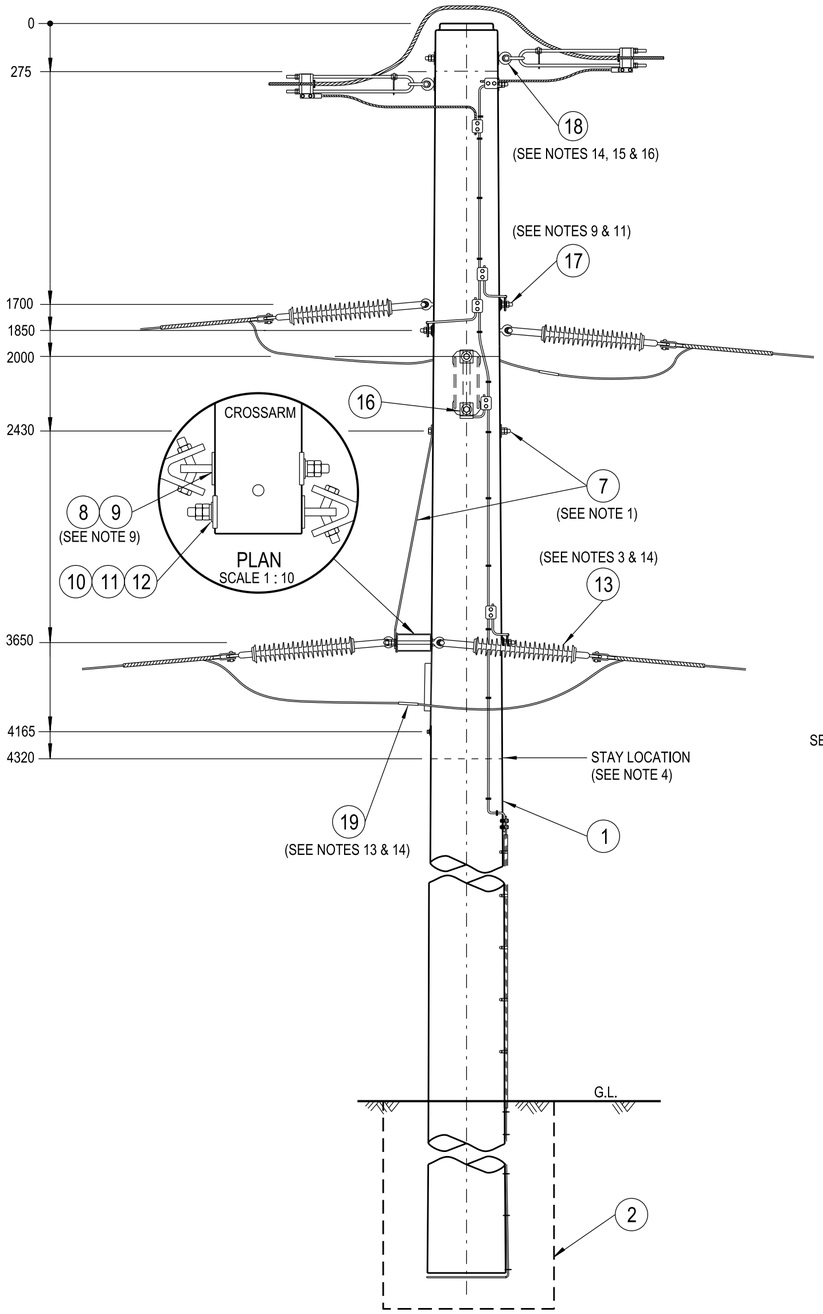

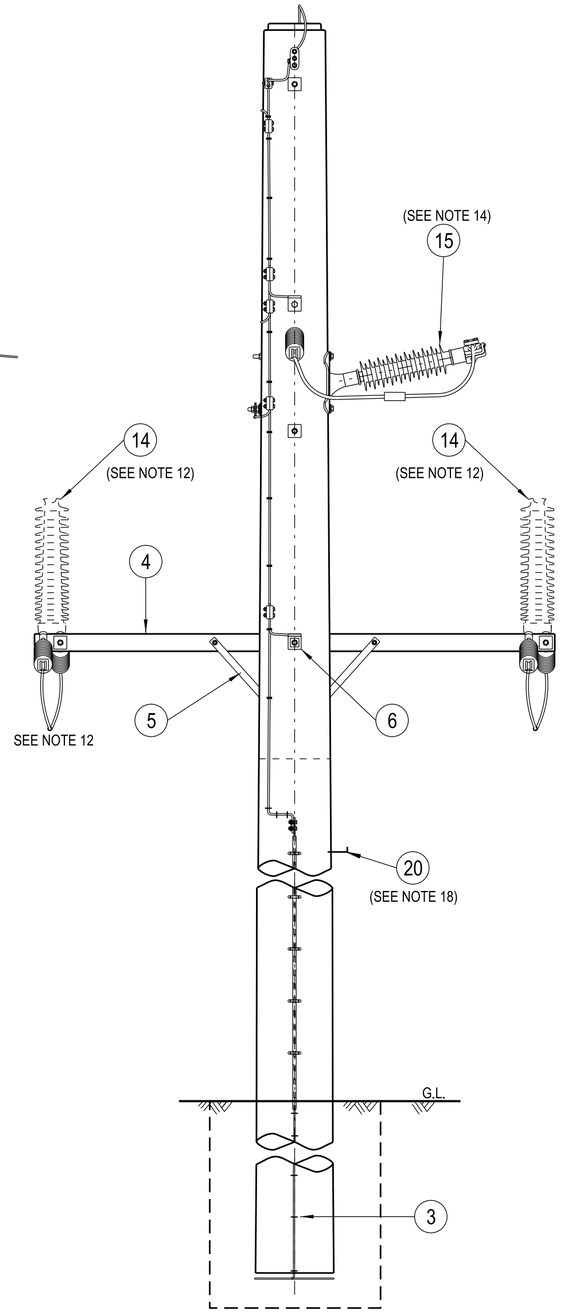

NOTE :

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.
   h. REQUIREMENTS FOR CROSSARM SUPPORT STRAP.
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 STAY WIRE CLEARANCE FROM THE PHASE CONDUCTORS COMPLIES WITH THE STATUTORY REQUIREMENTS.
5. 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.
6. ALL BOLTS AND EYEBOLTS 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. THE MAXIMUM LINE DEVIATION FOR THIS STRUCTURE IS 80° WITH THE CROSSARM BISECTING THE LINE ANGLE.
11. THE CENTRE PHASE EYEBOLTS ARE TO BE INSTALLED IN THE DIRECTION OF THE OVERHEAD CONDUCTORS.
12. THE PHASE CONDUCTORS TERMINATED ON THE CROSSARM MAY BE BRIDGED UNDER THE CROSSARM PROVIDED THAT :
    a. THE LINE IS SINGLE CIRCUIT OR STATUTORY CLEARANCES CAN BE MAINTAINED UNDER ALL OPERATING CONDITIONS.
    b. MINIMUM PHASE TO EARTH CLEARANCES OF 700mm CAN BE MAINTAINED.
    c. WHEN THE CONDITIONS IN (a) AND (b) ARE NOT MET, 'TIE TOP' POST INSULATORS ARE TO BE INSTALLED ON THE CROSSARM TO SUPPORT THE TAPPING CONDUCTORS.
13. NON TENSION COMPRESSION JOINTS TO BE USED WHEN REQUIRED TO JOIN CONDUCTORS.
14. ONLY THE SINGLE PHASE CONDUCTOR WITH OPGW THROUGH TERMINATION OVERHEAD EARTHWIRE OPTION IS SHOWN ON THIS CONSTRUCTION DRAWING.
15. 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.
16. WHEN USING THE OPGW THROUGH SPLICE BOX TERMINATION ARRANGEMENT, REFER TO DRAWING 565743 FOR SPLICE BOX AND COILED CABLE BRACKET MOUNTING DETAILS.
17. 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.
18. REFER TO DESIGNER SAFETY REPORT D20/324805 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.

ITEM	DESCRIPTION	DRG. No	QTY
20	STEP - POLE, SCREW-IN (SEE NOTE 18)	250144	A/R
19	JOINT - COMPRESSION, NON TENSION (TO SUIT DUAL CONDUCTOR) (SEE NOTES 13 & 14)	514053	6
	JOINT - COMPRESSION, NON TENSION (TO SUIT CONDUCTOR) (SEE NOTES 13 & 14)	514053	3
18	EARTHWIRE - TERMINATION, OVERHEAD, MOUNTING, ARRANGEMENT -1A (SEE NOTES 14 & 15)	519450	1
	OPGW - TERMINATION, CONDUCTOR, MOUNTING, ARRANGEMENT -1C (SEE NOTES 14, 15 & 16)	565747	
	OPGW - TERMINATION, CONDUCTOR, MOUNTING, ARRANGEMENT -1A (SEE NOTES 14 & 15)	565747	
17	EARTHWIRE - OVERHEAD, DOWNLEAD, POLE HARDWARE, MOUNTING & BONDING, ARRANGEMENT -2 (SEE NOTES 9 & 11)	514146	1
16	EARTHWIRE - OVERHEAD, DOWNLEAD, POLE HARDWARE, MOUNTING & BONDING, ARRANGEMENT -4	514145	1
15	INSULATOR - HORIZONTAL LINE POST, 66kV, DUAL CONDUCTOR, MOUNTING & BONDING, ARRANGEMENT -1 (SEE NOTE 14)	244699	1
	INSULATOR - HORIZONTAL LINE POST, 66kV, MOUNTING & BONDING, ARRANGEMENT -1 (SEE NOTE 14)	514161	
14	INSULATOR - POST, CROSSARM MOUNTING, ARRANGEMENT (SEE NOTE 12)	514165	2
13	INSULATOR - LONGROD, 66kV, DUAL CONDUCTOR, POLYMERIC STRING, ARRANGEMENT -2 (SEE NOTES 3 & 14)	244700	6
	INSULATOR - LONGROD, 66kV, POLYMERIC STRING, ARRANGEMENT -2 (SEE NOTES 3 & 14)	166231	
12	WASHER - FLAT, M20, GALVANISED	518081	4
11	WASHER - SPRING, M20, GALVANISED	518082	4
10	WASHER - LIP, M24, GALVANISED	518081	4
9	WASHER - SQUARE, 75x75x6mm, GALVANISED (Ø22mm HOLE)	518081	4
8	EYEBOLT - M20x350mm, GALVANISED (SEE NOTE 9)	513653	4
7	STRAP - CROSSARM SUPPORT, INSTALLATION, ARRANGEMENT -1 (SEE NOTE 1)	520269	1
6	EARTHWIRE - OVERHEAD, DOWNLEAD, POLE HARDWARE, MOUNTING & BONDING, ARRANGEMENT -3	514145	1
5	BRACE - CROSSARM, ANGLE, 740mm, TYPE H, GALVANISED (REPLACES 690mm BRACE S/C: H17738)	46	2
4	CROSSARM - MOUNTING ARRANGEMENT -1 (USE 3000x200x100x5mm RHS)	514176	1
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

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

CAD DRAWING
DO NOT MANUALLY AMEND

AMENDMENTS

B — DWN: P.S. CHKED: P.A.S.
DATE: 7-9-94
'Y' OFFSETS IN TABLE AMENDED.
AUTH'D by: P. SUMNER

C — DWN: P.S. CHKED:
DATE: 18-5-95
ITEM 4 ADDED AS REPLACEMENT, ITEM 7 ADDED AS REQUIRED, MATERIAL LIST NUMERICAL LISTING CHANGED.
AUTH'D by: P. SUMNER

4 — DWN: PATRICIA RIOS
CHKED: PHILLIP JONES
DATE: 24/08/2020
DRAWING NUMBER UPDATED. STOCK CODES REMOVED. DISCS CHANGED TO LONGRODS. INSULATORS UPDATED. NOTES & MATERIAL LIST AMENDED.
APP'D by: GLENN FORD

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

ASSOCIATED DRAWINGS

NETWORK STANDARD
Ausgrid
145 NEWCASTLE RD WALLSEND, NSW 2287

SCALE	1:25
DESIGNED	-
DRAWN	PETER SAUNDERS
CHECKED	P.A.S
APPROVED	I.NICHOLS
DATE	19/03/93
PROJECT NUMBER	STD
PROJTRAK NUMBER	-

STANDARD CONSTRUCTION 66kV DELTA TERMINATION CONSTRUCTION WITH OVERHEAD EARTHWIRE 5-148E

SIZE A2 | DRAWING No 520202 | SHEET 01 | AMD 4

20110901

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