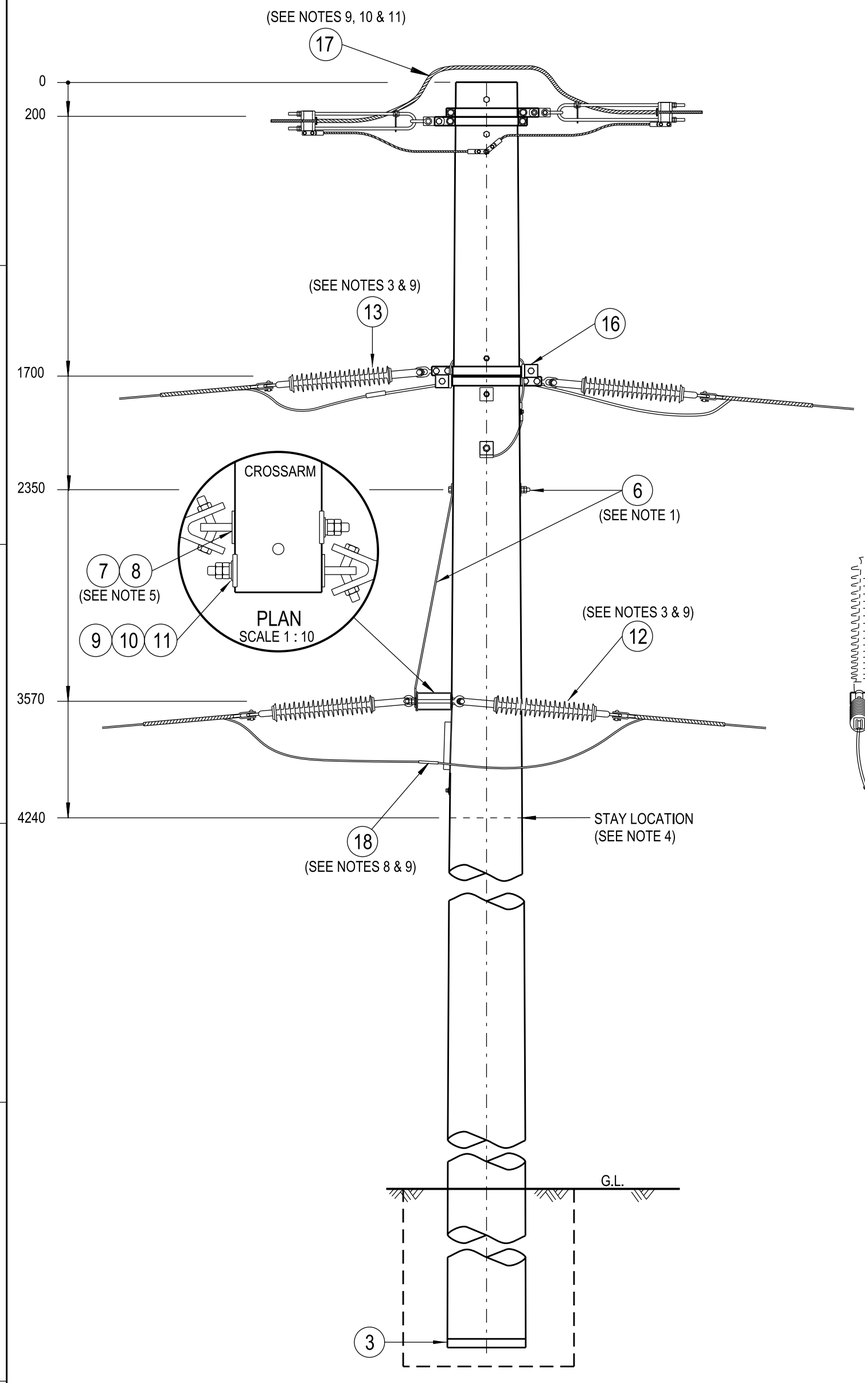

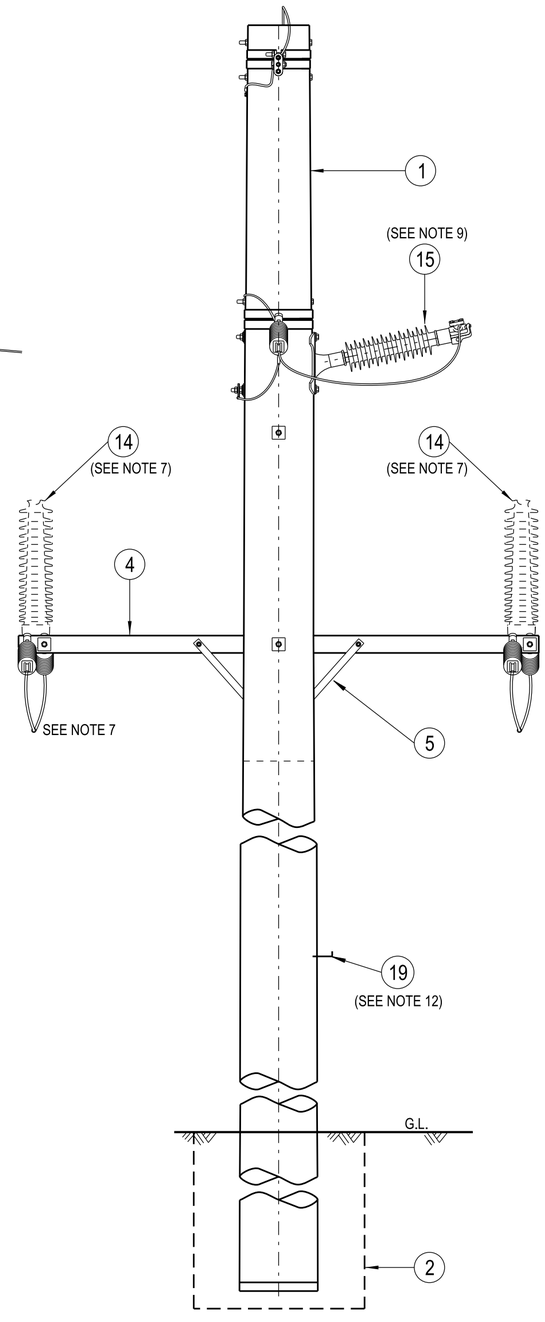

NOTE :

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 LOAD AND DEVIATION ALLOWABLE ON THE EYEBOLT IS TO BE DETERMINED FROM DRG: 520324.
6. THE MAXIMUM LINE DEVIATION FOR THIS STRUCTURE IS 80° WITH THE CROSSARM BISECTING THE LINE ANGLE.
7. 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.
8. NON TENSION COMPRESSION JOINTS TO BE USED WHEN REQUIRED TO JOIN CONDUCTORS.
9. ONLY THE SINGLE PHASE CONDUCTOR WITH OPGW THROUGH TERMINATION OVERHEAD EARTHWIRE OPTION IS SHOWN ON THIS CONSTRUCTION DRAWING.
10. 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.
11. WHEN USING THE OPGW THROUGH SPLICE BOX TERMINATION ARRANGEMENT, REFER TO DRAWING 565743 FOR SPLICE BOX AND COILED CABLE BRACKET MOUNTING DETAILS.
12. 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.
13. REFER TO DESIGNER SAFETY REPORT D20/325201 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.

ITEM	DESCRIPTION	DRG. No	QTY
19	STEP - POLE (SEE NOTE 12)	514084	A/R
18	JOINT - COMPRESSION, NON TENSION (TO SUIT DUAL CONDUCTOR) (SEE NOTES 8 & 9)	514053	6
	JOINT - COMPRESSION, NON TENSION (TO SUIT CONDUCTOR) (SEE NOTES 8 & 9)	514053	3
17	EARTHWIRE - TERMINATION, OVERHEAD, MOUNTING, ARRANGEMENT -2A (SEE NOTES 9 & 10)	519450	1
	OPGW - TERMINATION, CONDUCTOR, MOUNTING, ARRANGEMENT -2C (SEE NOTES 9, 10 & 11)	565747	
	OPGW - TERMINATION, CONDUCTOR, MOUNTING, ARRANGEMENT -2A (SEE NOTES 9 & 10)	565747	
16	BAND - POLE, MOUNTING AND BONDING, ARRANGEMENT -2	514158	1
15	INSULATOR - HORIZONTAL LINE POST, 66kV, DUAL CONDUCTOR, MOUNTING & BONDING, ARRANGEMENT -3 (SEE NOTE 9)	244699	1
	INSULATOR - HORIZONTAL LINE POST, 66kV, MOUNTING & BONDING, ARRANGEMENT -2a (SEE NOTE 9)	514161	
14	INSULATOR - POST, CROSSARM MOUNTING, ARRANGEMENT (SEE NOTE 7)	514165	2
13	INSULATOR - LONGROD, 66kV, DUAL CONDUCTOR, POLYMERIC STRING, ARRANGEMENT -3 (SEE NOTES 3 & 9)	244700	2
	INSULATOR - LONGROD, 66kV, POLYMERIC STRING, ARRANGEMENT -3 (SEE NOTES 3 & 9)	166231	
12	INSULATOR - LONGROD, 66kV, DUAL CONDUCTOR, POLYMERIC STRING, ARRANGEMENT -2 (SEE NOTES 3 & 9)	244700	4
	INSULATOR - LONGROD, 66kV, POLYMERIC STRING, ARRANGEMENT -2 (SEE NOTES 3 & 9)	166231	
11	WASHER - FLAT, M20, GALVANISED	518081	4
10	WASHER - SPRING, M20, GALVANISED	518082	4
9	WASHER - LIP, M24, GALVANISED	518081	4
8	WASHER - SQUARE, 75x75x6mm, GALVANISED (Ø22mm HOLE)	518081	4
7	EYEBOLT - M20x350mm, GALVANISED (SEE NOTE 5)	513653	4
6	STRAP - CROSSARM SUPPORT, INSTALLATION, ARRANGEMENT -1 (SEE NOTE 1)	520269	1
5	BRACE - CROSSARM, ANGLE, 740mm, TYPE H, GALVANISED (REPLACES 690mm BRACE S/C: H17738)	46	2
4	CROSSARM - MOUNTING ARRANGEMENT -1a (USE 3000x200x100x5mm RHS)	514176	1
3	EARTHING - CONCRETE/STEEL, SINGLE POLE, BUTT, ARRANGEMENT	520209	1
2	FOOTING - CONCRETE POLE, ARRANGEMENT (SEE NOTE 1)	512331	1
1	POLE - CONCRETE (AS REQUIRED)		1

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

CAD DRAWING
DO NOT MANUALLY AMEND

AMENDMENTS

11	DWN: PATRICIA RIOS	CHKED: PHIL JONES	DATE: 14/03/2007 DRAWING NUMBER UPDATED. STOCK CODES REMOVED. DISCS CHANGED TO LONGRODS. NOTES AMENDED.
12	APP'D by: STEPHEN CONNOR	DWN: GARY HUGHES	CHKED: PHILLIP JONES
			DATE: 05/11/2013 AUSGRID BORDER APPLIED. ITEM 5 DRG NUMBER AMENDED.
13	APP'D by: DOMINIC SHIELDS	DWN: PATRICIA RIOS	CHKED: PHILLIP JONES
			DATE: 24/08/2020 OHEW SHOWN AS OPGW. FITTING ARRANGEMENTS AMENDED. NOTES & MATERIAL LIST AMENDED.
	APP'D by: GLENN FORD		

ASSOCIATED DRAWINGS

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

NETWORK STANDARD
Ausgrid
145 NEWCASTLE RD WALLSEND, NSW 2287

SCALE	1.25
DESIGNED	-
DRAWN	PETER SAUNDERS
CHECKED	P.A.S
APPROVED	I.NICHOLS
DATE	10/08/93
PROJECT NUMBER	STD
PROJTRAK NUMBER	-

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

SIZE A2 | DRAWING No 514139 | SHEET 01 | AMD 13

20110901