



NOTES:

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 SIZE.
 - e. STAY REQUIREMENTS.
 - f. DEVIATION ANGLE.
 - g. ASSESSED EARTHING REQUIREMENTS.
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 STRUCTURE SHALL BE ERECTED SO THE POLES ARE VERTICAL, AND THE CROSSARM MOUNTED HORIZONTAL.
8. NON TENSION COMPRESSION JOINTS TO BE USED WHEN REQUIRED TO JOIN CONDUCTORS.
9. THE CONDUCTOR TAPPINGS ARE TO BE INSTALLED TO ENSURE A MINIMUM PHASE TO EARTH CLEARANCE OF 700mm IS MAINTAINED.
10. ARRANGEMENT 2 IS TO BE USED WHEN THE MAXIMUM LOAD OF THE EYEBOLTS IN ARRANGEMENT 1 IS EXCEEDED.
11. ONLY THE SINGLE PHASE CONDUCTOR WITH OPGW THROUGH TERMINATION OVERHEAD EARTHWIRE OPTION IS SHOWN ON THIS CONSTRUCTION DRAWING.
12. 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.
13. WHEN USING THE OPGW THROUGH SPLICE BOX TERMINATION ARRANGEMENT, REFER TO DRAWING 565743 FOR SPLICE BOX AND COILED CABLE BRACKET MOUNTING DETAILS.
14. 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.
15. REFER TO DESIGNER SAFETY REPORT D20/322822 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.

ITEM	DESCRIPTION	DRG. No	ARR-1 QTY	ARR-2 QTY
22	STEP - POLE (SEE NOTE 14)	514084	A/R	A/R
21	EARTHWIRE - TERMINATION, OVERHEAD, MOUNTING, ARRANGEMENT -2A (SEE NOTES 11 & 12)	519450		
	OPGW - TERMINATION, CONDUCTOR, MOUNTING, ARRANGEMENT -2C (SEE NOTES 11, 12 & 13)	565747	2	2
	OPGW - TERMINATION, CONDUCTOR, MOUNTING, ARRANGEMENT -2A (SEE NOTES 11 & 12)	565747		
20	WASHER - SPRING, M12, STAINLESS STEEL	518082	2	2
19	WASHER - FLAT, M12, STAINLESS STEEL	518081	2	2
18	SCREW - SET, M12x25mm, STAINLESS STEEL	515467	2	2
17	LUG - COMPRESSION, MERCURY, 7/4.50 AAC	514053	2	2
16	CONDUCTOR - MERCURY, 7/4.50 AAC		1.5m	1.5m
15	WASHER - SPRING, M12, GALVANISED	518082	2	2
14	WASHER - FLAT, M12, GALVANISED	518081	4	4
13	CLIP - OFFSET EARTHING (Ø14mm HOLE)	507734	2	2
12	BOLT & NUT - M12x240mm, HEX., GALVANISED	515466	2	2
11	JOINT - COMPRESSION, NON TENSION (TO SUIT DUAL CONDUCTOR) (SEE NOTES 8 & 11)	514053	6	6
	JOINT - COMPRESSION, NON TENSION (TO SUIT CONDUCTOR) (SEE NOTES 8 & 11)	514053	3	3
10	INSULATOR - LONGROD, 66kV, DUAL CONDUCTOR, POLYMERIC STRING, ARRANGEMENT -5 (SEE NOTES 3 & 11)	244700		6
	INSULATOR - LONGROD, 66kV, DUAL CONDUCTOR, POLYMERIC STRING, ARRANGEMENT -2 (SEE NOTES 3 & 11)	244700	6	
	INSULATOR - LONGROD, 66kV, POLYMERIC STRING, ARRANGEMENT -5 (SEE NOTES 3 & 11)	166231		6
	INSULATOR - LONGROD, 66kV, POLYMERIC STRING, ARRANGEMENT -2 (SEE NOTES 3 & 11)	166231	6	
9	WASHER - SQUARE, 75x75x6mm, GALVANISED (Ø22mm HOLE)	518081	12	8
8	EYEBOLT - M20x350mm, GALVANISED (SEE NOTE 5)	513653	6	
7	WASHER - SPRING, M20, GALVANISED	518082	10	4
6	WASHER - SQUARE, 50x50x6mm, GALVANISED (Ø22mm HOLE)	518081	8	
5	BOLT & NUT - M20, HEX., GALVANISED (LENGTH TO SUIT POLE)	515466	4	4
4	CROSSARM - 'H' POLE ALTERNATE TERMINATION, 6000x200x100x9mm, RHS, GALVANISED (SEE NOTE 10)	563058		1
	CROSSARM - 'H' POLE TERMINATION, 6000x200x100x9mm, RHS, GALVANISED (SEE NOTE 10)	514378	1	
3	EARTHING - CONCRETE/STEEL, MULTIPLE POLE, STRUCTURE, BUTT, ARRANGEMENT	520210	1	1
2	FOOTING - CONCRETE POLE, ARRANGEMENT (SEE NOTE 1)	512331	2	2
1	POLE - CONCRETE (AS REQUIRED)		2	2

CAD DRAWING
DO NOT MANUALLY AMEND
A. H. E. M. E. N. T. S.
B. D. W. N.: P. S. C. H. E. D.: P. A. S.
DATE: 30/07/08
ALTERNATE CROSSARM ADDED.
AUTHOR: G. S. K. I. N. N. E. R.
C. H. E. K. E. D.: P. S. C. H. E. D.
DATE: 08/07/08
PHASE ATTACH CENTERS
ADDED, NEW ASSOCIATED
DRGS ADDED, DRG NO.
CHANGED TO 500,000 SERIES.
AUTHOR: G. S. K. I. N. N. E. R.
D. W. N.: P. A. T. R. I. C. I. A. R. I. O. S.
C. H. E. K. E. D.: P. H. I. L. I. P. J. O. N. E. S.
DATE: 13/02/2006
STOCK CODES REMOVED.
DISC INSULATORS
CHANGED TO POLYMERIC
LONGRODS.
AUTHOR: S. T. E. P. H. E. N. C. O. N. I. G. O. R.
D. W. N.: P. A. T. R. I. C. I. A. R. I. O. S.
C. H. E. K. E. D.: P. H. I. L. I. P. J. O. N. E. S.
DATE: 19/08/2020
AUSGRID BORDER APPLIED.
INSULATORS TO BE LONGROD.
INSULATORS TO BE POLYMERIC.
AMENDED NOTES, TITLE &
MATERIAL LIST UPDATED.
APPD by: GLENN FORD

DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE. DO NOT SCALE.

ITEM	DESCRIPTION	DRG. No	ARR-1 QTY	ARR-2 QTY
10	OPGW CONDUCTOR SPLICE BOX & COILED CABLE BRACKET MOUNTING ARRANGEMENT	565743		
11	20mm EYEBOLT LOADING & DEVIATION GRAPH	520324		

ASSOCIATED DRAWINGS

NETWORK STANDARD

145 NEWCASTLE RD WALLSEND, NSW 2287

SCALE	1:20	STANDARD CONSTRUCTION 66kV H POLE TERMINATION CONSTRUCTION WITH OVERHEAD EARTHWIRE 5-21C/E	
DESIGNED	-		
DRAWN	PETER SAUNDERS		
CHECKED	-		
APPROVED	G SKINNER	SIZE DRAWING No A1 520412	
DATE	11/12/97		
PROJECT NUMBER	STD	SHEET	01
PROJ TRAK NUMBER	-	AMD	5