



- NOTES :**
- THE FOLLOWING INFORMATION IS OBTAINED FROM THE PROJECT DESIGN DRAWINGS:
 - POLE LENGTH AND STRENGTH.
 - SPECIAL FOUNDATION REQUIREMENTS.
 - POLE EMBEDMENT DEPTH.
 - PHASE CONDUCTOR AND OVERHEAD EARTHWIRE SIZE.
 - VARIATIONS TO STANDARD CROSSARM REQUIREMENTS.
 - STAY REQUIREMENTS.
 - DEVIATION ANGLE.
 - ASSESSED EARTHING REQUIREMENTS.
 - 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.
 - THE LOAD AND DEVIATION ALLOWABLE ON THE EYEBOLT IS TO BE DETERMINED FROM DRG: 520324.
 - LONGROD INSULATORS TO BE USED UNDER NORMAL CONDITIONS.
 - THE CROSSARM BRACE ATTACHMENT POINT ON A CONCRETE POLE IS TO BE AN M12 STAINLESS STEEL EARTH FERRULE.
 - THE OHEW IS TO BE BONDED TO AN M12 STAINLESS STEEL EARTH FERRULE ON THE CONCRETE POLE.
 - COMPOSITE FIBRE CROSSARMS ARE TO BE USED AS THE PREFERRED OPTION UNDER NORMAL CIRCUMSTANCES.
 - A 2706mm COMPOSITE FIBRE CROSSARM IS TO BE USED AS THE DEFAULT CROSSARM. A LONGER COMPOSITE FIBRE CROSSARM IS TO BE USED WHERE ADDITIONAL MID SPAN SEPARATION IS REQUIRED. A STEEL CROSSARM IS TO BE USED WHEN THE MAXIMUM LOAD OF THE ALTERNATE CROSSARMS IS EXCEEDED.
 - ONLY THE 2706mm COMPOSITE FIBRE CROSSARM OPTION IS SHOWN ON THIS CONSTRUCTION DRAWING. REFER TO DRGS: 262732 & 514377 FOR DRILLING PATTERN OF ALTERNATE CROSSARMS.
 - FOR DETAILS OF APPROVED ALTERNATE WAGNER COMPOSITE FIBRE CROSSARMS, REFER TO DRG: 265964.
 - ONLY THE SINGLE PHASE CONDUCTOR WITH OPGW SPLICE BOX TERMINATION OVERHEAD EARTHWIRE OPTION IS SHOWN ON THIS CONSTRUCTION DRAWING.
 - USE THE OPGW SPLICE BOX TERMINATION ARRANGEMENT WHEN ERECTING AN OPGW OVERHEAD EARTHWIRE. USE THE STANDARD EARTHWIRE TERMINATION ARRANGEMENT WHEN ERECTING A NON OPGW OVERHEAD EARTHWIRE.
 - 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.
 - REFER TO DESIGNER SAFETY REPORT D22/284023 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.

ITEM	DESCRIPTION	DRG. No	QTY
14	STEP - POLE (SEE NOTE 13)	514084	A/R
13	OPGW - SPLICE BOX & COILED CABLE BRACKET, CONDUCTOR, MOUNTING ARRANGEMENT (USE WITH OPGW OHEW OPTIONS ONLY)	565743	1
12	EARTHWIRE - TERMINATION, OVERHEAD, MOUNTING, ARRANGEMENT -2B (SEE NOTES 11 & 12)	519450	1
	OPGW - TERMINATION, CONDUCTOR, MOUNTING, ARRANGEMENT -2B (SEE NOTES 11 & 12)	565747	
11	INSULATOR - LONGROD, 33kV, DUAL CONDUCTOR, POLYMERIC STRING, ARRANGEMENT -3 (SEE NOTES 4 & 11)	250120	1
	INSULATOR - LONGROD, 33kV, POLYMERIC STRING, ARRANGEMENT -3 (SEE NOTES 4 & 11)	158754	
10	INSULATOR - LONGROD, 33kV, DUAL CONDUCTOR, POLYMERIC STRING, ARRANGEMENT -2 (SEE NOTES 4 & 11)	250120	2
	INSULATOR - LONGROD, 33kV, POLYMERIC STRING, ARRANGEMENT -2 (SEE NOTES 4 & 11)	158754	
9	BAND - POLE, MOUNTING & BONDING ARRANGEMENT -1	514158	1
8	WASHER - SQUARE, 75x75x6mm, GALVANISED (Ø22mm HOLE)	518081	2
7	WASHER - SPRING, M20, GALVANISED	518082	2
6	WASHER - LIP, M24, GALVANISED	518081	2
5	EYEBOLT - M20x200mm, GALVANISED (SEE NOTE 3)	513653	2
4	CROSSARM - MOUNTING ARRANGEMENT -1a (COMPOSITE FIBRE OR GALVANISED STEEL CROSSARM) (SEE NOTES 7, 8, 9 & 10)	514176	1
3	FOOTING - CONCRETE POLE, ARRANGEMENT (SEE NOTE 1)	512331	1
2	EARTHING - CONCRETE/STEEL, SINGLE POLE, BUTT, ARRANGEMENT	520209	1
1	POLE - CONCRETE (AS REQUIRED)		1

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

NO.	DESCRIPTION	DRG. No	QTY
1	COMPOSITE FIBRE CROSSARMS WAGNER SPECIFICATION	265964	
2	HV TERMINATION STEEL CROSSARM RHS CONSTRUCTION DETAILS	514377	
3	COMPOSITE FIBRE CROSSARMS SPECIFICATION	262732	
4	20mm EYEBOLT LOADING AND DEVIATION GRAPH	520324	

ASSOCIATED DRAWINGS

1	APPD: G.F.	DATE: 08/11/2022	MULTIPLE CROSSARM OPTION & FOUNDATION DETAILS ADDED. NOTES & MATERIAL LIST AMENDED. DUAL CONDUCTOR & OHEW OPTIONS ADDED.
2	APPD: G.F.	DATE: 23/07/2024	COMPOSITE CROSSARMS ADDED TO MATERIAL LIST. NOTES & DIMENSIONS AMENDED. SHEET SIZE CHANGED.

1	APPD: G.F.	DATE: 14/10/2013	AUSGRID BORDER APPLIED.
2	APPD: G.F.	DATE: 08/11/2022	MULTIPLE CROSSARM OPTION & FOUNDATION DETAILS ADDED. NOTES & MATERIAL LIST AMENDED. DUAL CONDUCTOR & OHEW OPTIONS ADDED.

<p>NETWORK STANDARD 145 NEWCASTLE RD WALLSEND, NSW 2287</p>	SCALE	1:25	STANDARD CONSTRUCTION 33kV DELTA TERMINATION CONSTRUCTION WITH OVERHEAD EARTHWIRE 4-25C/E
	DESIGNED	PHIL JONES	
	DRAWN	P.RIOS	
	CHECKED	PHIL JONES	
	APPROVED	STEPHEN CONNOR	
DATE	20/12/2007		
PROJECT NUMBER	STD		
PROJTRAK NUMBER	-		
SIZE	A2	DRAWING No	174243
SHEET	1	AMD	3