



- 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.
 - DEVIATION ANGLE.
 - ASSESSED EARTHING REQUIREMENTS.
 - THE MAXIMUM LINE DEVIATION ANGLE TO BE CONSTRUCTED ON THIS ARRANGEMENT IS TO BE DETERMINED BY THE LINE DESIGNER.
 - LONGROD INSULATORS TO BE USED UNDER NORMAL CONDITIONS.
 - ONLY INSTALL THE LIGHTNING SPIRE WHEN AN OHEW HAS NOT BEEN INSTALLED. REFER TO OPTIONAL LIGHTNING SPIRE ARRANGEMENT FOR INSTALLATION DETAILS.
 - TO ATTACH EARTH CABLES TO THE GALVANISED STEEL DOWNROD AND OPERATING HANDLE, DRILL A Ø14mm HOLE SQUARE TO THE FACE AND REMOVE ALL BURRS. RE-COAT THE DRILLED SURFACE WITH AN ANTI-RUST PAINT SUCH AS GALMET.
 - MAINTAIN A SLACK LOOP OF EARTHING CABLE TO THE DOWNROD AND OPERATING HANDLE TO ENSURE CORRECT OPERATION IS NOT IMPEDED.
 - ATTACH EARTH COVER GUARD TO CONCRETE POLE USING A BUILDING CONSTRUCTION ADHESIVE SUCH AS LIQUID NAILS.
 - THE ABS OPERATING PAD IS A 1500x1000x100mm REINFORCED CONCRETE PAD WITH FALL AWAY FROM THE POLE TO THE SURROUNDING GROUND WHICH WILL BE INSTALLED USING:
 - CONTINUOUS F72 MESH REINFORCEMENT.
 - 25mm MINIMUM TOP COVER OF CONCRETE.
 - CONCRETE STRENGTH AT 28 DAYS TO BE A MINIMUM OF 20MPa.
 - FINISHED SURFACE TO BE NON-SLIP (WOOD TROWEL FINISH).
 - THE EARTHING CONNECTIONS ARE TO BE INSTALLED AS DETAILED.
 - IF THE LONGITUDINAL TENSION IN THE ATTACHED CONDUCTOR(S) IS LESS THAN 4450N, THE STABILISER BRACKET (DRG: 165683), AS SHOWN ON DRAWING 203729, SHOULD BE INSTALLED.
 - ONLY THE OPGW THROUGH TERMINATION OVERHEAD EARTHWIRE OPTION IS SHOWN ON THIS CONSTRUCTION DRAWING.
 - USE THE OPGW THROUGH TERMINATION ARRANGEMENT WHEN ERECTING AN UNBROKEN OPGW OVERHEAD EARTHWIRE. USE THE STANDARD EARTHWIRE TERMINATION ARRANGEMENT WHEN ERECTING A NON OPGW OVERHEAD EARTHWIRE.
 - WHEN USING THE OPGW THROUGH SPLICE BOX TERMINATION ARRANGEMENT, REFER TO DRAWING 565743 FOR SPLICE BOX AND COILED CABLE BRACKET MOUNTING DETAILS.
 - REFER TO DESIGNER SAFETY REPORT D20/334453 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.

ITEM	DESCRIPTION	DRG. No	STOCK CODE	QTY
43	LUG - COMPRESSION, MERCURY, 7/4.50 AAC (M16 HOLE)			1
42	WASHER - SQUARE, 50x50x6mm, GALVANISED (Ø22mm HOLE)	518081	H39265	2
41	SPIRE - LIGHTNING, POLE MOUNTED (SEE NOTE 4)	518894	H79251	1
40	WASHER - SPRING, M10, STAINLESS STEEL	518082	50120	12
39	WASHER - FLAT, M10, STAINLESS STEEL	518081	49411	24
38	NUT - M10, HEX, STAINLESS STEEL	515467	H39401	12
37	SCREW - SET, M10x30mm, HEX, STAINLESS STEEL	515467	45088	12
36	LUG - COMPRESSION (2xM10 HOLES) (TO SUIT CONDUCTOR)			6
35	PAD - ABS OPERATING (SEE NOTE 8)			A/R
34	ROD - EARTH, Ø15mm, COPPER CLAD STEEL		H31631	A/R
33	CONNECTOR - COMPRESSION, BURNDY STYLE YGHC26C26		177942	4
32	CLAMP - CABLE, ZINC PLATED STEEL WITH SANTOPRENE CUSHION			1
31	BOLT & NUT - M12x75mm, HEX, STAINLESS STEEL (SEE NOTE 5)	515467	H38954	1
30	LUG - COMPRESSION, 35mm ² , TINNED COPPER (M12 HOLE)		H20501	1
29	GUARD - EARTH COVER, 3m (CUT TO SIZE) (SEE NOTE 7)		157552	1
28	CABLE - 35mm ² , COPPER (1008/0.205), BLACK, PVC INSULATED (SEE NOTE 6)		60905	A/R
27	BOLT & NUT - M12x100mm, HEX, STAINLESS STEEL (SEE NOTE 5)			1
26	LUG - COMPRESSION, 70mm ² , TINNED COPPER (M12 HOLE)		74831	3
25	CABLE - 70mm ² , COPPER (2204/0.2), BLACK, RUBBER INSULATED (SEE NOTE 6)		60194	A/R
24	INSULATOR - HORIZONTAL LINE POST, 66kV, MOUNTING & BONDING, ARRANGEMENT -2	514161		3
23	BAND - POLE, MOUNTING AND BONDING, ARRANGEMENT -1	514158		3
22	INSULATOR - LONGROD, 66kV, POLYMERIC STRING, ARRANGEMENT -3 (SEE NOTE 3)	166231		3
21	INSULATOR - LONGROD, 66kV, POLYMERIC STRING, ARRANGEMENT -2 (SEE NOTE 3)	166231		3
20	WASHER - SPRING, M16, GALVANISED	518082	96149	2
19	WASHER - FLAT, M16, GALVANISED	518081	177984	4
18	BOLT & NUT - M16, HEX, GALVANISED (LENGTH TO SUIT POLE)	515466		2
17	WASHER - SPRING, M12, GALVANISED	518082	H12047	4
16	WASHER - FLAT, M12, GALVANISED	518081	177982	8
15	BOLT & NUT - M12, HEX, GALVANISED (LENGTH TO SUIT POLE)	515466		4
14	WASHER - SPRING, M20, GALVANISED	518082	175569	9
13	CLIP - OFFSET EARTHING (Ø22mm HOLE)	507734	H11708	3
12	WASHER - SQUARE, 75x75x6mm, GALVANISED (Ø22mm HOLE)	518081	H39231	18
11	BOLT & NUT - M20, HEX, GALVANISED (LENGTH TO SUIT POLE)	515466		9
10	SWITCH - AIR BREAK, 66kV, 1AD TURNER WITH OPERATING HANDLE & DOWN ROD (SEE NOTE 9)			1
9	EARTHWIRE - TERMINATION, OVERHEAD, MOUNTING, ARRANGEMENT -2A (SEE NOTES 10 & 11)	519450		
8	OPGW - TERMINATION, CONDUCTOR, MOUNTING, ARRANGEMENT -2C (SEE NOTES 10, 11 & 12)	565747		1
7	OPGW - TERMINATION, CONDUCTOR, MOUNTING, ARRANGEMENT -2A (SEE NOTES 10 & 11)	565747		
6	WASHER - SPRING, M12, STAINLESS STEEL	518082	143859	8
5	WASHER - FLAT, M12, STAINLESS STEEL	518081	49429	10
4	SCREW - SET, M12x25mm, STAINLESS STEEL	515467	44693	6
3	LUG - COMPRESSION, MERCURY, 7/4.50 AAC (M12 HOLE)	514053	H10257	4
2	CONDUCTOR - MERCURY, 7/4.50 AAC		H13433	2m
1	EARTHING - CONCRETE/STEEL, SINGLE POLE, BUTT, ARRANGEMENT	520209		1
	FOOTING - CONCRETE POLE, ARRANGEMENT (SEE NOTE 1)	512331		1
	POLE - CONCRETE (AS REQUIRED)			1

CAD DRAWING DO NOT MANUALLY AMEND AMENDMENTS DWN: PATRICIA RIOS CHKD: PHILIP JONES DATE: 11/02/2010 LIGHTNING SPIRE ARRANGEMENT REMOVED FROM POLE MATERIAL LIST (REVISED) APP'D BY: LEIGH DUNKLEY	DWN: PATRICIA RIOS CHKD: PHILIP JONES DATE: 02/01/2013 DRAWING BORDER UPDATED NOTES ADDED	APP'D BY: GLENN FORD DWN: PATRICIA RIOS CHKD: PHILIP JONES DATE: 10/09/2020 INSULATOR UPDATED NOTES & MATERIAL LIST AMENDED	APP'D BY: GLENN FORD
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ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE. DO NOT SCALE.

DESCRIPTION	DRG. No
OPGW CONDUCTOR SPLICE BOX & COILED CABLE BRACKET MOUNTING ARRANGEMENT	565743
SINGLE 66kV VERTICAL ABS WITH STABILISER BRACKET GENERAL ARRANGEMENT	203729
1AD SIDE BREAK SWITCH STABILISER BRACKET & BRACE	165683

NETWORK STANDARD
Ausgrid
 145 NEWCASTLE RD WALLSEND,
 NSW 2287

SCALE	1:50	STANDARD CONSTRUCTION SINGLE 66kV VERTICAL AIR BREAK SWITCH GENERAL ARRANGEMENT
DESIGNED	PHILLIP JONES	
DRAWN	PATRICIA RIOS	
CHECKED	PHILLIP JONES	
APPROVED	GLENN FORD	
DATE	18/12/09	
PROJECT NUMBER	STD	
PROJ TRAK NUMBER	-	
SIZE	DRAWING No	
A1	203726	
SHEET	01	
AMD	3	