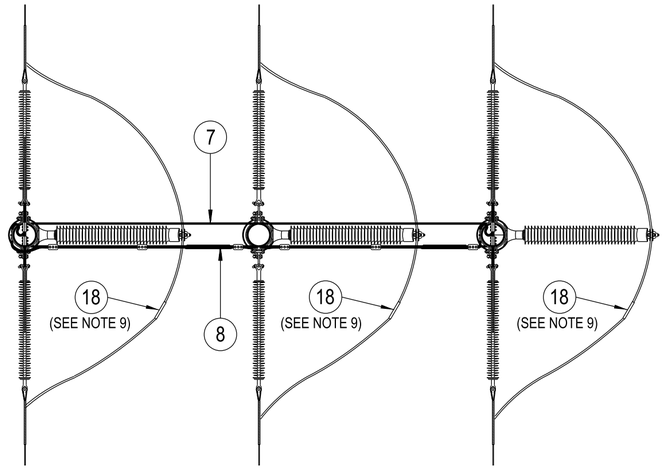

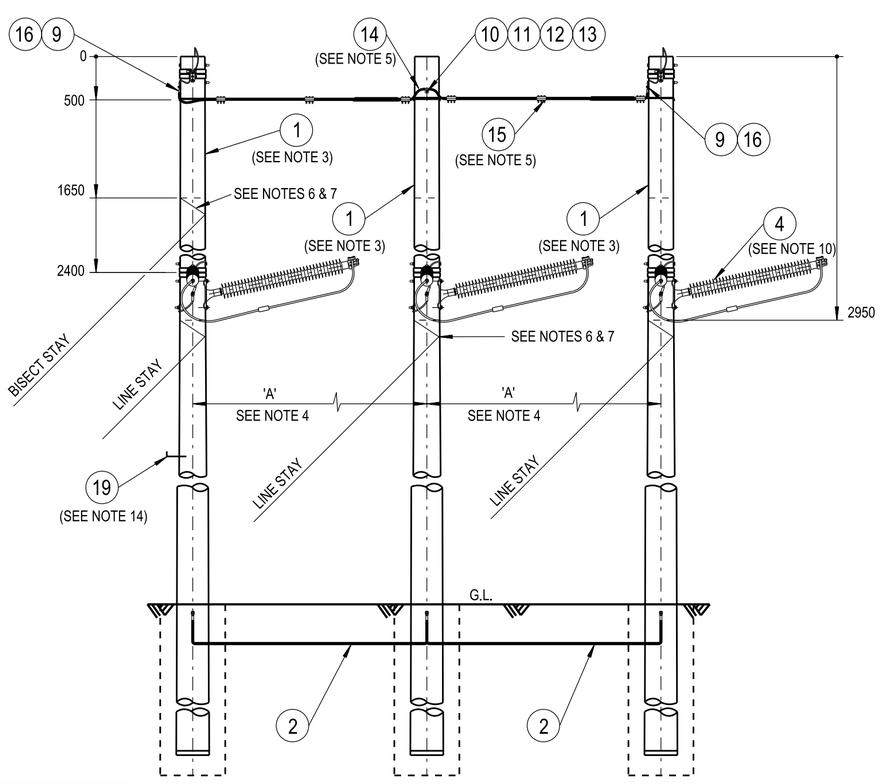

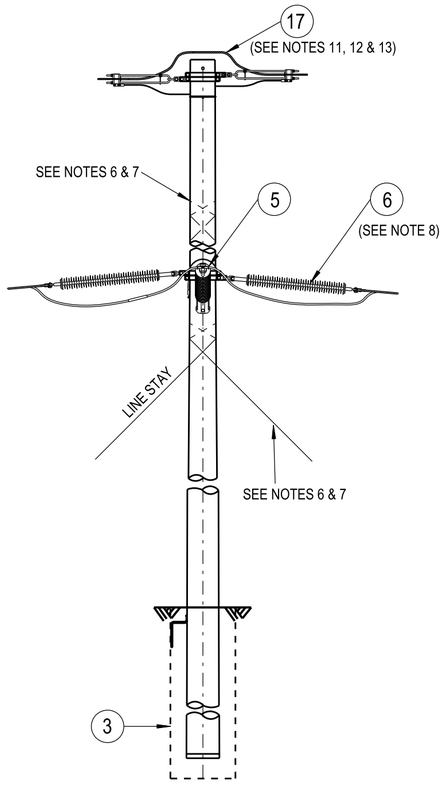

NOTES :

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 AND OVERHEAD EARTHWIRE SIZE.
   e. STAY REQUIREMENTS.
   f. DEVIATION ANGLE.
   g. ASSESSED EARTHING REQUIREMENTS.
   h. DESIGNED POLE CENTRE SEPARATION (DIMENSION 'A')
2. THIS STRUCTURE IS TO BE USED FOR LINE DEVIATION ANGLES LESS THAN 65°.
3. THE STRUCTURE SHALL BE ERECTED SO THAT THE POLES ARE VERTICAL,THE TOPS OF POLES ARE LEVEL AND THE POLE TOP STAY WIRE IS HORIZONTAL.
4. THE LINE DESIGNER IS TO SPECIFY THE POLE CENTRE SEPARATION (DIMENSION 'A') HAVING REGARD FOR THE MID SPAN CLEARANCE REQUIREMENTS AND THE LINE DEVIATION ANGLE. THE POLES ARE TO BE ERECTED WITH A MINIMUM POLE CENTRE SEPARATION OF 4400mm.
5. THE INTER-POLE EARTH BONDING LEAD IS TO BE CONTINUOUS AND ATTACHED TO THE STEEL POLE AND OHEW EARTHING SYSTEM AT THE HEAD OF EACH POLE. THE INTER-POLE EARTH BONDING LEAD IS TO ALSO ATTACH TO THE POLE TOP STAY WIRE USING PARALLEL GROOVE CLAMPS AS SHOWN.
6. THE LINE STAYS ARE DESIGNED TO HOLD THE INLINE TENSIONS AND NOT THE STRUCTURES RADIAL LOAD. IF THE RADIAL LOAD IS EXCESSIVE THEN A BISECT STAY MUST BE USED.
7. STAYS TO BE INSTALLED SO THAT THE STAYWIRE CLEARANCE FROM THE PHASE CONDUCTORS COMPLIES WITH THE STATUTORY REQUIREMENTS.
8. LONGROD INSULATORS TO BE USED UNDER NORMAL CONDITIONS.
9. NON-TENSION COMPRESSION JOINTS TO BE USED WHEN REQUIRED TO JOIN CONDUCTORS.
10. LINE POST INSULATORS ARE TO BE FITTED WHERE LINE DEVIATION IS LESS THAN 90°.
11. ONLY THE 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.

ITEM	DESCRIPTION	DRG.No.	QTY
19	STEP - POLE (SEE NOTE 14)	514084	A/R
18	JOINT - COMPRESSION, NON TENSION (TO SUIT CONDUCTOR) (SEE NOTE 9)	514053	3
17	EARTHWIRE - TERMINATION, OVERHEAD, MOUNTING, ARRANGEMENT -2A (SEE NOTES 11 & 12)	519450	2
	OPGW - TERMINATION, CONDUCTOR, MOUNTING, ARRANGEMENT -2C (SEE NOTES 11, 12 & 13)	565747	
	OPGW - TERMINATION, CONDUCTOR, MOUNTING, ARRANGEMENT -2A (SEE NOTES 11 & 12)	565747	
16	BOLT - M12x40mm, STAINLESS STEEL (REPLACES M12x25mm)	515467	2
15	CLAMP - PARALLEL GROOVE, 3-BOLT	514099	6
14	CONDUCTOR - MERCURY, 7/4.5 AAC (S/C: H13433)		15m
13	CLIP - OFFSET EARTHING (Ø14mm HOLE)	507734	1
12	WASHER - SPRING, M12, STAINLESS STEEL	518082	1
11	WASHER - FLAT, M12, STAINLESS STEEL	518081	1
10	SCREW - SET, M12x25mm, STAINLESS STEEL	515467	1
9	LUG - COMPRESSION, MERCURY, 7/4.5 AAC (Ø14mm HOLE)	514053	2
8	SPLICE - FULL TENSION, PREFORMED, FOR 19/2.00mm GALVANISED STEEL WIRE	514098	2
7	WIRE - STAY, 19/2.00mm, STEEL, GALVANISED (S/C: H10485)		26m
6	INSULATOR - LONGROD, 132kV, POLYMERIC STRING, ARRANGEMENT - 3 (SEE NOTE 8)	520314	6
5	BAND - POLE, MOUNTING & BONDING, ARRANGEMENT -2	514158	3
4	INSULATOR - HORIZONTAL LINE POST, 132kV, MOUNTING & BONDING, ARRANGEMENT - 2a	514161	3
3	FOOTING - STEEL POLE, CONCRETE, ARRANGEMENT (SEE NOTE 1)	178123	3
2	EARTHING - CONCRETE/STEEL, MULTIPLE POLE, BUTT, ARRANGEMENT	520210	2
1	POLE - STEEL (AS REQUIRED)		3

ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE. DO NOT SCALE

CAD DRAWING DO NOT MANUALLY AMEND

AMENDMENTS

OPGW CONDUCTOR SPLICE BOX & COILED CABLE BRACKET MTG ARRANGEMENT	565743

ASSOCIATED DRAWINGS

NETWORK STANDARD Ausgrid

145 NEWCASTLE RD WALLSEND, NSW 2287

SCALE	1:50
DESIGNED	PHILLIP JONES
DRAWN	PATRICIA RIOS
CHECKED	PHILLIP JONES
APPROVED	DOMINIC SHIELDS
DATE	06/03/18
PROJECT NUMBER	STD
PROJTRAK NUMBER	-

STANDARD CONSTRUCTION
132kV THREE POLE TERMINATION CONSTRUCTION
WITH TWIN OVERHEAD EARTHWIRE
SP-CB

SIZE	DRAWING No	SHEET	AMD
A2	236258	01	0

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