

A

B

C

D

E

F

A

B

C

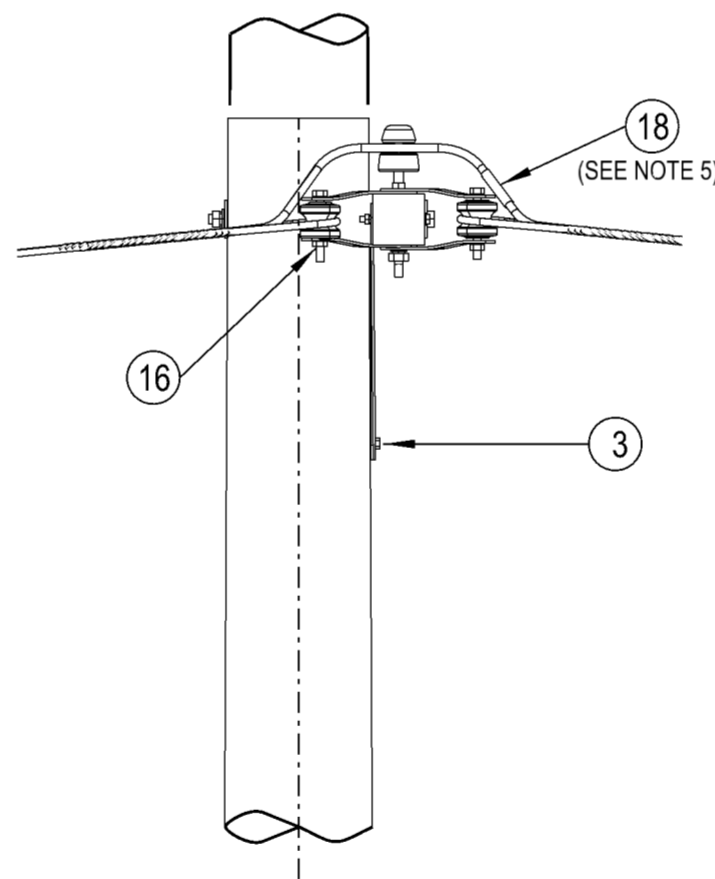
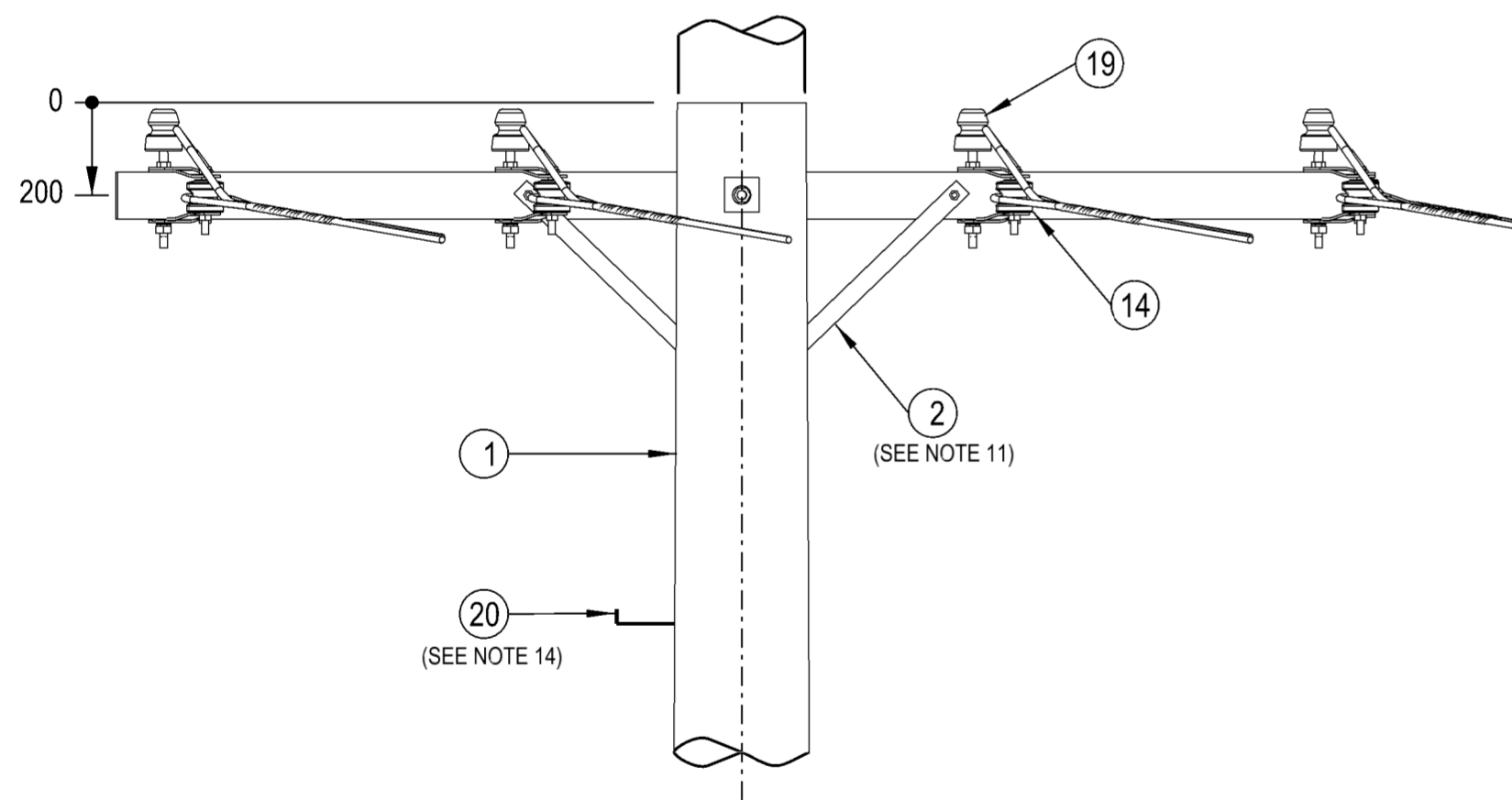
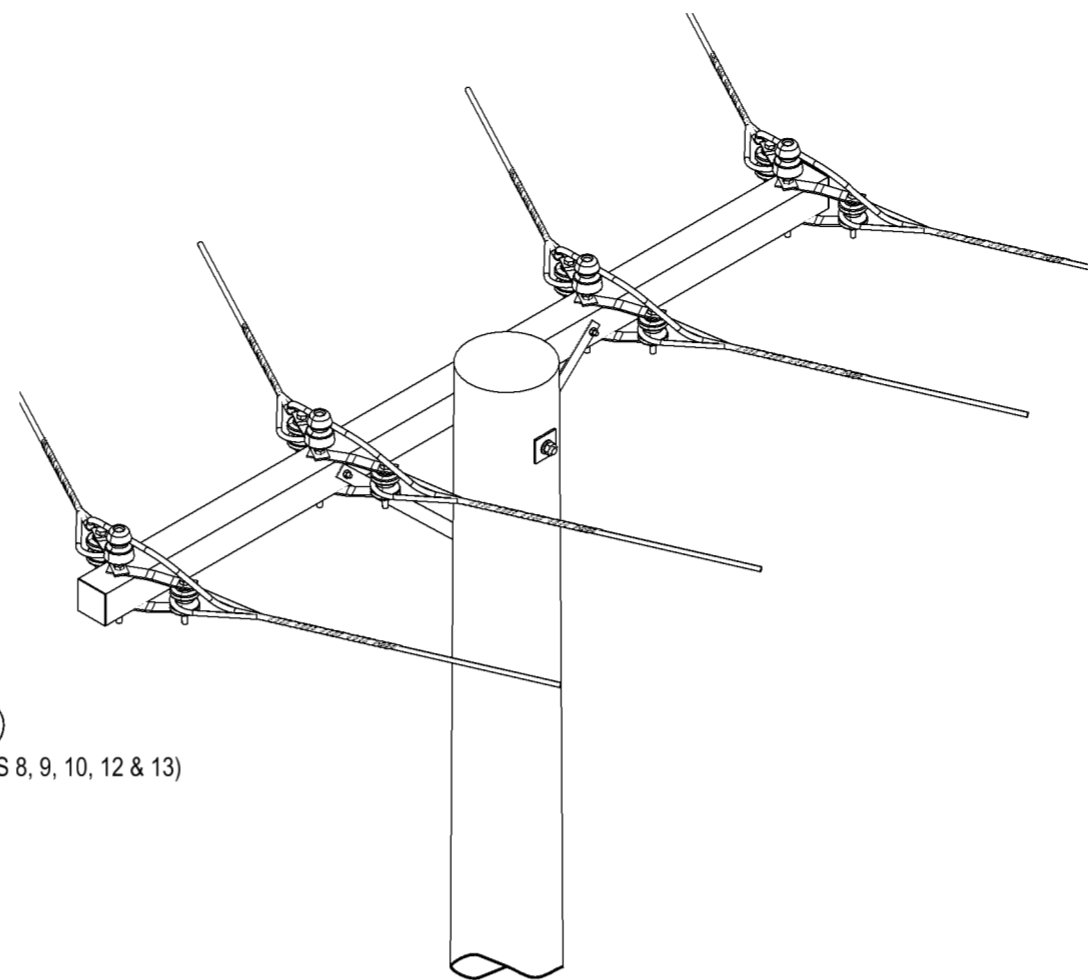
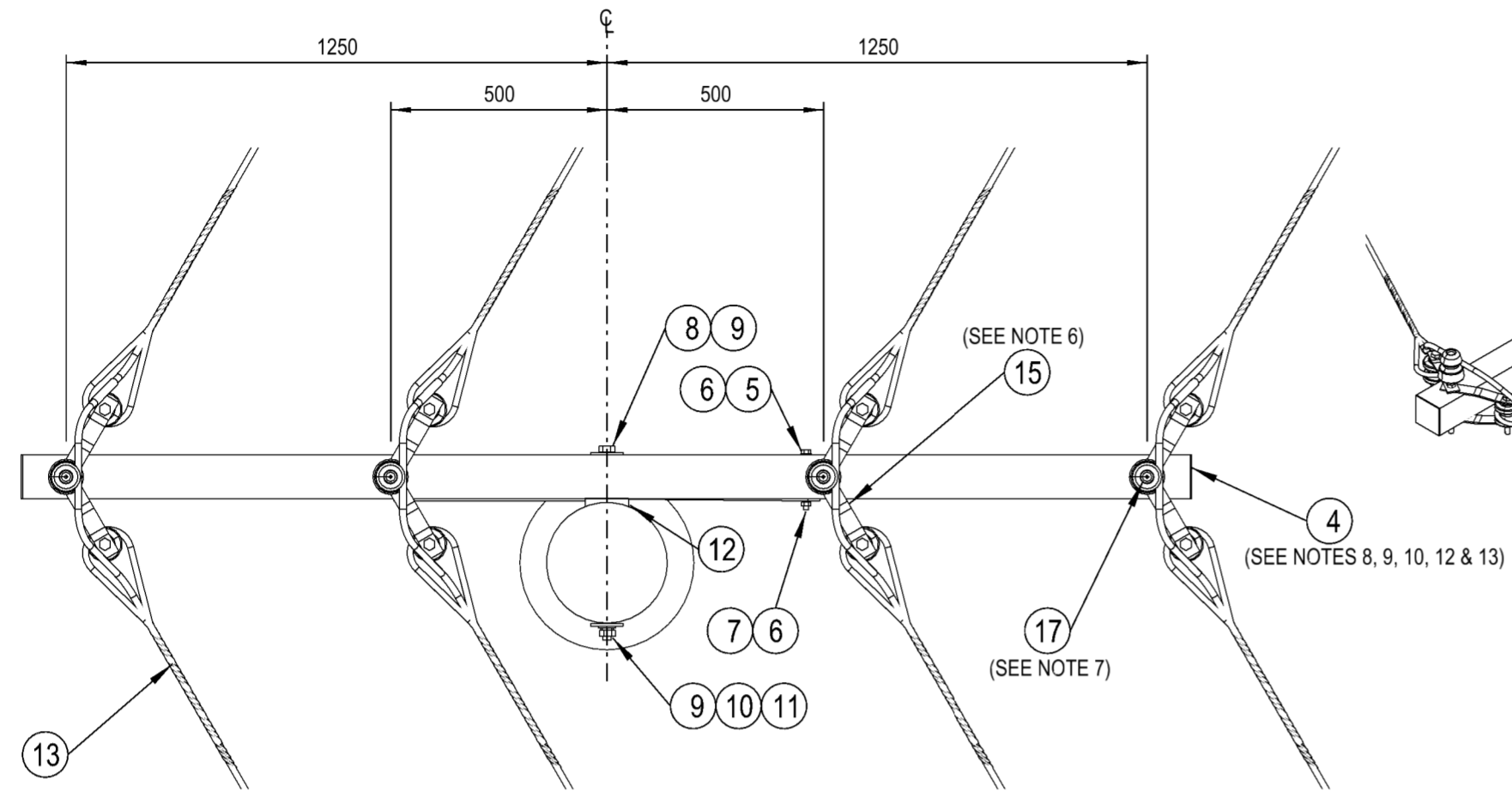
D

E

F

**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. CONDUCTOR SIZE.
  - e. CROSSARM SIZE AND BRACE REQUIREMENTS.
  - f. STAY REQUIREMENTS.
  - g. DEVIATION ANGLE.
2. THE MAXIMUM LINE DEVIATION ANGLE TO BE CONSTRUCTED ON THIS ARRANGEMENT IS TO BE DETERMINED BY THE LINE DESIGNER.
3. ALL BOLTS AND INSULATOR PINS PASSING THROUGH TIMBER ARE TO BE COATED WITH GRAPHITE GREASE.
4. POLES SHALL BE DRILLED, SCARFED AND DRESSED ON SITE. DRILLING AND SCARFING TO BE TREATED WITH APPROVED PRESERVATIVES.
5. NON-TENSION COMPRESSION SLEEVES TO BE USED WHEN REQUIRED TO JOIN CONDUCTORS.
6. THE SHACKLE STRAP IS TO BE FORMED TO SUIT THE CROSSARM AND INSULATOR.
7. IF THE CONDUCTOR DEVIATES AT THE INSULATOR, USE THE ANGLE TYPE CONDUCTOR TIE ARRANGEMENT. OTHERWISE, USE THE INTERMEDIATE TYPE CONDUCTOR TIE ARRANGEMENT AS SHOWN ON DRG: 514044.
8. COMPOSITE FIBRE CROSSARMS ARE TO BE USED AS THE PREFERRED OPTION UNDER NORMAL CIRCUMSTANCES.
9. A 2706mm COMPOSITE FIBRE CROSSARM IS TO BE USED AS THE DEFAULT CROSSARM. FOR NARROW FEEDER ALIGNMENTS, A SHORTER CROSSARM MAY BE CONSIDERED TO OVERCOME DESIGN AND SITE CONSTRAINTS.
10. ONLY THE 2706mm COMPOSITE FIBRE CROSSARM OPTION IS SHOWN ON THIS CONSTRUCTION DRAWING. REFER TO DRGS: 262732, 514373, 514374 & 15233 FOR DRILLING PATTERN OF ALTERNATE CROSSARMS.
11. THE 690mm CROSSARM BRACES ARE TO BE USED ON A 2706mm, 2106mm, 2700mm & 2100mm CROSSARM. THE 490mm CROSSARM BRACES ARE TO BE USED ON A 2406mm & 2400mm CROSSARM.
12. FOR DETAILS OF APPROVED ALTERNATE WAGNER COMPOSITE FIBRE CROSSARMS, REFER TO DRG: 265964.
13. WHEN SPECIFYING WAGNER COMPOSITE FIBRE CROSSARMS, A REVIEW OF ALL THE HARDWARE ATTACHED TO THE CROSSARM WILL BE REQUIRED.
14. POLE STEPS ARE TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF NS128.
15. REFER TO DESIGNER SAFETY REPORT D22/200897 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.



ITEM	DESCRIPTION	DRG. No	STOCK CODE	QTY
20	STEP - POLE, SCREW-IN (SEE NOTE 14)	250144	185198	A/R
19	INSULATOR - LV, (LPLV PATTERN 'B') & PIN ARRANGEMENT	513995		4
18	JOINT - NON TENSION, COMPRESSION (TO SUIT CONDUCTOR) (SEE NOTE 5)	514053		4
17	TIE - CONDUCTOR, LOW VOLTAGE, SUPPORT ARRANGEMENT (SEE NOTE 7)	514044		5m
16	BOLT & NUT - M16x130mm, HEX, GALVANISED	515466	46979	8
15	BRACKET - MOUNTING, SHACKLE, LV FLAT, GALVANISED (SEE NOTE 6)	514379	H17762	16
14	INSULATOR - SHACKLE, REEL, TYPE SH.LV2	514407	75812	8
13	DEADEND - PREFORMED, HELICAL (TO SUIT CONDUCTOR)	514098		8
12	BLOCK - GAIN, ALUMINIUM, 100mm		146274	1
11	WASHER - FLAT, M20, GALVANISED	518081	177986	1
10	WASHER - CONICAL, M20, GALVANISED	518082	H39655	1
9	WASHER - SQUARE, 75x75x6mm, GALVANISED (Ø22mm HOLE)	518081	H39231	2
8	BOLT & NUT - M20, HEX, GALVANISED (LENGTH TO SUIT POLE)	515466		1
7	WASHER - CONICAL, M12, GALVANISED (USE WITH HARDWOOD CROSSARMS)	518082	H39639	2
	WASHER - SPRING, M12, GALVANISED (USE WITH COMPOSITE FIBRE CROSSARMS)	518082	H12047	
6	WASHER - FLAT, M12, GALVANISED	518081	177982	4
	BOLT & NUT - M12x150mm, HEX, GALVANISED (USE WITH 2400mm CROSSARM)	515466	46847	
5	BOLT & NUT - M12x180mm, HEX, GALVANISED (USE WITH 2700mm & 2100mm CROSSARMS)	515466	46888	2
	BOLT & NUT - M12x130mm, HEX, GALVANISED (USE WITH 2706mm, 2406mm & 2106mm CROSSARMS)	515466	46805	
4	CROSSARM - 2400x125x100mm, TYPE LT3, HARDWOOD (SEE NOTES 8, 9, 10, 12 & 13)	15233	71746	1
	CROSSARM - 2100x150x100mm, TYPE I, HARDWOOD (SEE NOTES 8, 9, 10, 12 & 13)	514374	H23745	
	CROSSARM - 2700x150x100mm, TYPE E, HARDWOOD (SEE NOTES 8, 9, 10, 12 & 13)	514373	H23892	
	CROSSARM - 2106x102x102mm, TYPE 4, COMPOSITE FIBRE (SEE NOTES 8, 9, 10, 12 & 13)	262732	186774	
	CROSSARM - 2406x102x102mm, TYPE 5, COMPOSITE FIBRE (SEE NOTES 8, 9, 10, 12 & 13)	262732	186775	
3	SCREW - COACH, M12 x 100mm, GALVANISED		H40484	1
2	BRACE - CROSSARM, FLAT, TYPE L, 490mm, GALVANISED (SEE NOTE 11)	46	76745	2
	BRACE - CROSSARM, FLAT, 690mm, GALVANISED (SEE NOTE 11)	514385	H17738	
1	POLE - TIMBER (AS REQUIRED)	513988		1

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

CAD DRAWING DO NOT MANUALLY AMEND AMENDMENTS	
DWN: P.R.	
CHKD: P.J.	
APPD: G.F.	
DATE: 25/09/2024 NOTES & MATERIAL LIST AMENDED. ASSOCIATED DRAWING ADDED.	16
DWN: P.R.	
CHKD: P.J.	
APPD: G.F.	
DATE: 25/09/2024 WAGNER CROSSARM OPTION REMOVED FROM MATERIAL LIST. NOTES ADDED.	16

ASSOCIATED DRAWINGS	
COMPOSITE FIBRE CROSSARMS WAGNER SPECIFICATION	265964
2700mm CROSSARMS FOR LV, 11kV, 22kV AND 33kV CONSTRUCTION DETAILS	514373
COMPOSITE FIBRE CROSSARMS SPECIFICATION	262732
LV CONDUCTOR TIE & SUPPORT ARRANGEMENTS	514044
WOODEN CROSSARMS FOR 415V OVERHEAD MAINS	15233
WOODEN CROSSARMS FOR LV, 11kV & 33kV CONSTRUCTION DETAILS	514374

NETWORK STANDARD

145 NEWCASTLE RD WALLSEND, NSW 2287

SCALE	1:15	STANDARD CONSTRUCTION		
DESIGNED	-	LV THROUGH TERMINATION		
DRAWN	PETER SAUNDERS	CONSTRUCTION		
CHECKED	-	1-11		
APPROVED	ROBERT BREMELL	SIZE	DRAWING No	SHEET
DATE	19/04	A2	513904	1
PROJECT NUMBER	STD			AMD
PROJ/TRAK NUMBER	-			16