

DISTRIBUTION DESIGN CATALOGUE Section 06

ST – Stays

HPC-1DC-07-0006-2014

For application to Horizon Power Electricity Distribution Networks

	Document Control			
Revision 5 Author	Name: Position:	Mondli Moyo Standards Engineer		
Reviewed	Name: Position:	Paul Savig Senior Standards Engineer		
Endorsed By	Name: Position:	Johnathan Choi Standards & Plant Manager		
Approved By	Name: Position:	Victor Cheng Manager Engineering and Project Services		
Date Created/Last Updated		August 2022		
Review Frequency **	Annually			
Next Review Date **	August 2023			

** Frequency period is dependent upon circumstances- maximum is 5 years from last issue, review, or revision whichever is the latest. If left blank, the default shall be 1 year unless otherwise specified.

Revision Control			
Revision Date Description			
1	15/03/2011	Original Horizon Power issue	
2	09/06/2014	Original Horizon Power issue	
3	12/07/2018	Eyebolt changed	
4	01/09/2019	Compatible Unit Updated	
5 29/08/2022 Note 2 updated			

STAKEHOLDERS The following positions shall be consulted if an update or review is required:	NOTIFICATION LIST The following positions shall be notified of any authorised change:
Assets Managers	Works Delivery Managers
Field Practices Coordinators	Logistics Manager
Asset Services Delivery Manager	

Document Title: Distribution Design Catalogue

Page 2 of 16

Issue Date: 30/09/2019

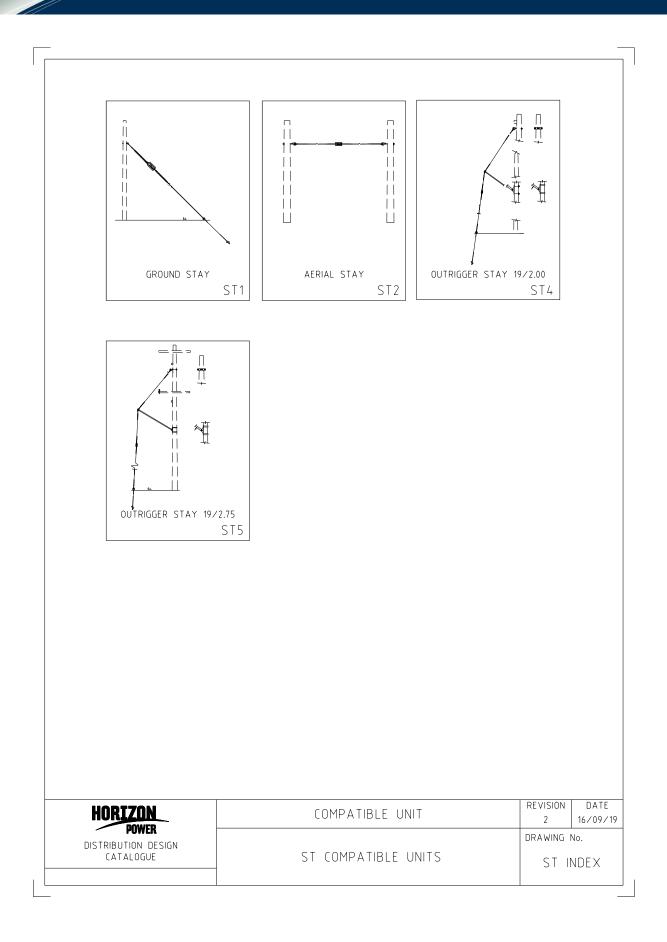
© Horizon Power Corporation – Document Number: HPC-1DC-07-0006-2014 Uncontrolled document when printed. Printed copy expires one week from print date. Refer to Document No. for current version.

STAYS LIST

CU	CU DESCRIPTION
<u>ST1_19/200</u>	Ground stay – 19/2.00 – Pole bolted
<u>ST1_19/200_C</u>	Ground stay – 19/2.00 – Pole clamped
<u>ST1_19/275</u>	Ground stay – 19/2.75 – Pole bolted
<u>ST1_19/275_C</u>	Ground stay – 19/2.75 – Pole clamped
<u>ST2_19/200</u>	Aerial stay – 19/2.00 – Pole bolted
<u>ST2 19/200 C</u>	Aerial stay – 19/2.00 – Pole clamped
<u>ST4</u>	Outrigger stay – 19/2.00 – Pole bolted
<u>ST4_C</u>	Outrigger stay – 19/2.00 – Pole clamped
<u>ST5</u>	Outrigger stay – 19/2.75 – Pole bolted
<u>ST5_C</u>	Outrigger stay – 19/2.75 – Pole clamped

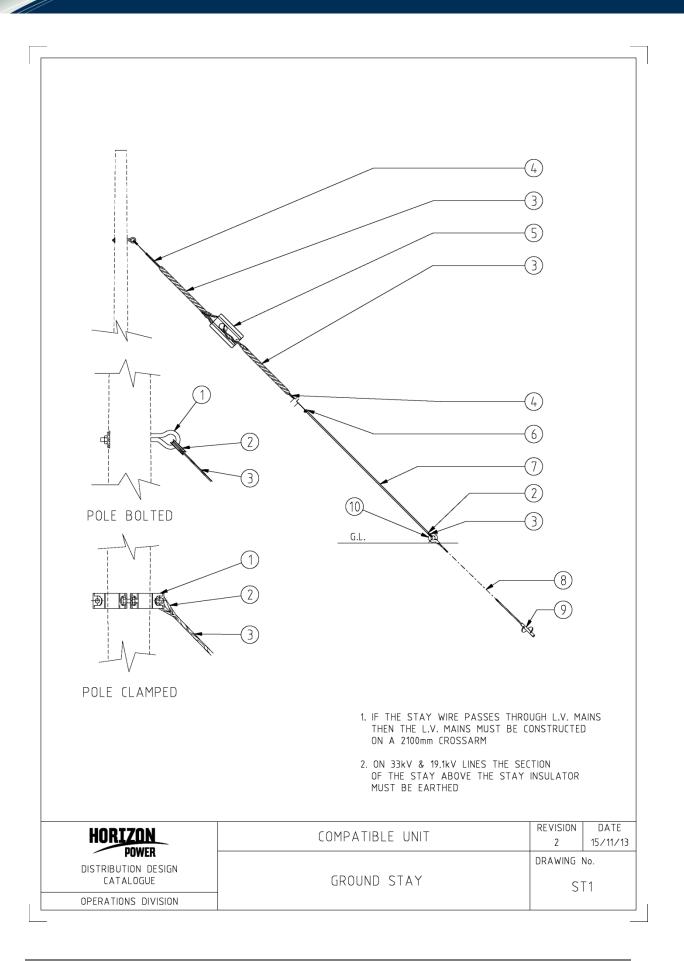


Note No.	DESCRIPTION
1	Stock item FM0900 only required for Pole clamped
2	Extra IA0053 (x1) and CF0664 (x2) required for all outrigger stays on wood poles (refer to R14/3)



Document Title: Distribution Design Catalogue Page 5 of 16 © Horizon Power Corporation – Document Number: HPC-1DC-07-0006-2014 Uncontrolled document when printed. Printed copy expires one week from print date. Refer to Document No. for current version.

Issue Date: 30/09/2019



Document Title: Distribution Design Catalogue Page 6 of 16 © Horizon Power Corporation – Document Number: HPC-1DC-07-0006-2014 Uncontrolled document when printed. Printed copy expires one week from print date. Refer to Document No. for current version.

Issue Date: 30/09/2019

CU	CU DESCRIPTION
ST1_19/200	Ground stay – 19/2.00 – Pole bolted

Item Number	Stock Number	DESCRIPTION	Q τy R qd	UNIT OF MEASURE	Remarks
1	AB6035	eyebolt 20 dia x 300 mm lg with nut and washers	1	ea	
2	OT0064	rope thimble 20 mm	2	ea	
3	CF0664	Helical termination steel 19/2.00	4	ea	
4	ES0062	stay wire 19/2.00, 15 m coil	1	coil	
5	IA0053	stay insulator	1	ea	
6	OG0351	10 mm saddle clamp wire rope	1	ea	
7	CG0005	UPVC stay protector	1	ea	
8	CA0151	rod anchor	1	ea	2.14 m
9	CA0027	screw anchor 200 mm	1	ea	
10	CA9050	thimble eye nut	1	ea	

CU	CU DESCRIPTION
ST1_19/200_C	Ground stay – 19/2.00 – Pole clamped

Item Number	Stock Number	DESCRIPTION	Q τy R QD	UNIT OF MEASURE	Remarks
1	CB3041	stay clamp with 4 x M20 bolts 65 mm lg, nuts and washers	1	set	
2	OT0064	rope thimble 20 mm	2	ea	
3	CF0664	Helical termination steel 19/2.00	4	ea	
4	ES0062	stay wire 19/2.00, 15 m coil	1	coil	
5	IA0053	stay insulator	1	ea	
6	OG0351	10 mm saddle clamp wire rope	1	ea	
7	CG0005	UPVC stay protector	1	ea	
8	CA0151	rod anchor	1	ea	2.14 m
9	CA0027	screw anchor 200 mm	1	ea	
10	CA9050	thimble eye nut	1	ea	

© Horizon Power Corporation – Document Number: HPC-1DC-07-0006-2014

CU	CU DESCRIPTION
ST1_19/275	Ground stay – 19/2.75 – Pole bolted

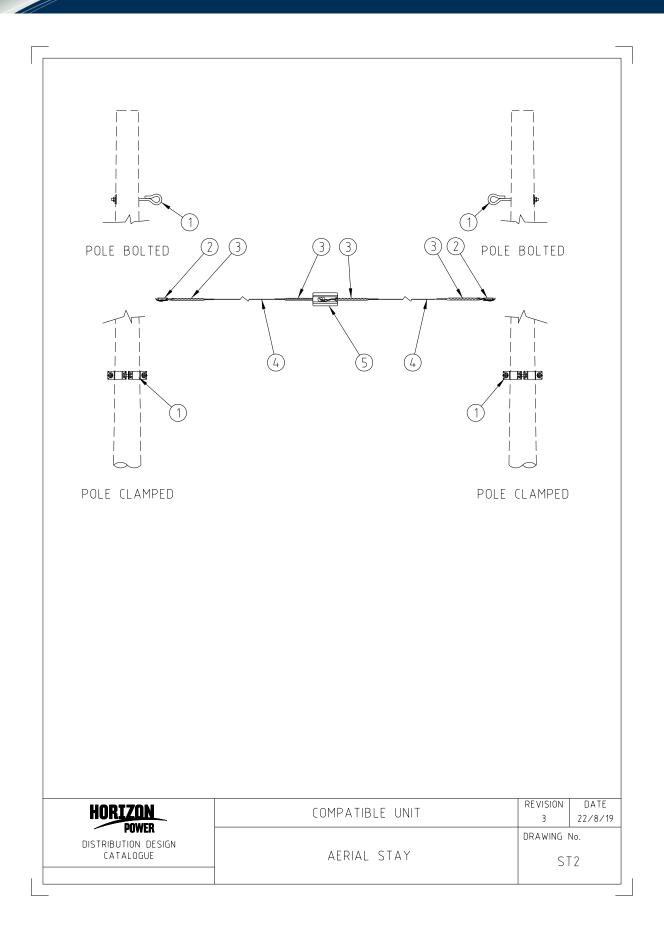
Item Number	Stock Number	DESCRIPTION	Q τy R QD	UNIT OF MEASURE	Remarks
1	AB6035	eyebolt 20 dia x 300 mm lg with nut and washers	1	ea	
2	OT0064	rope thimble 20 mm	2	ea	
3	CF0662	Helical termination steel 19/2.75	4	ea	
4	ES0061	stay wire 19/2.75, 15 m coil	1	coil	
5	IA0053	stay insulator	1	ea	
6	OG0352	12 mm saddle clamp wire rope	1	ea	
7	CG0005	UPVC stay protector	1	ea	
8	CA0151	Rod anchor	1	ea	2.14 m
9	CA0029	screw anchor 300 mm	1	ea	
10	CA9050	thimble eye nut	1	ea	

CU	CU DESCRIPTION
ST1_19/275_C	Ground stay – 19/2.75 – Pole clamped

Item Number	Stock Number	DESCRIPTION	Q τy R qd	UNIT OF MEASURE	Remarks
1	CB3041	stay clamp with 4 x M20 bolts 65 mm lg, nuts and washers	1	set	
2	OT0064	rope thimble 20 mm	2	ea	
3	CF0662	Helical termination steel 19/2.75	4	ea	
4	ES0061	stay wire 19/2.75, 15 m coil	1	coil	
5	IA0053	stay insulator	1	ea	
6	OG0352	12 mm saddle clamp wire rope	1	ea	
7	CG0005	UPVC stay protector	1	ea	
8	CA0151	rod anchor	1	ea	2.14 m
9	CA0029	screw anchor 300 mm	1	ea	
10	CA9050	thimble eye nut	1	ea	

© Horizon Power Corporation – Document Number: HPC-1DC-07-0006-2014





Document Title: Distribution Design Catalogue Page 9 of 16 © Horizon Power Corporation – Document Number: HPC-1DC-07-0006-2014 Uncontrolled document when printed. Printed copy expires one week from print date. Refer to Document No. for current version.

Issue Date: 30/09/2019

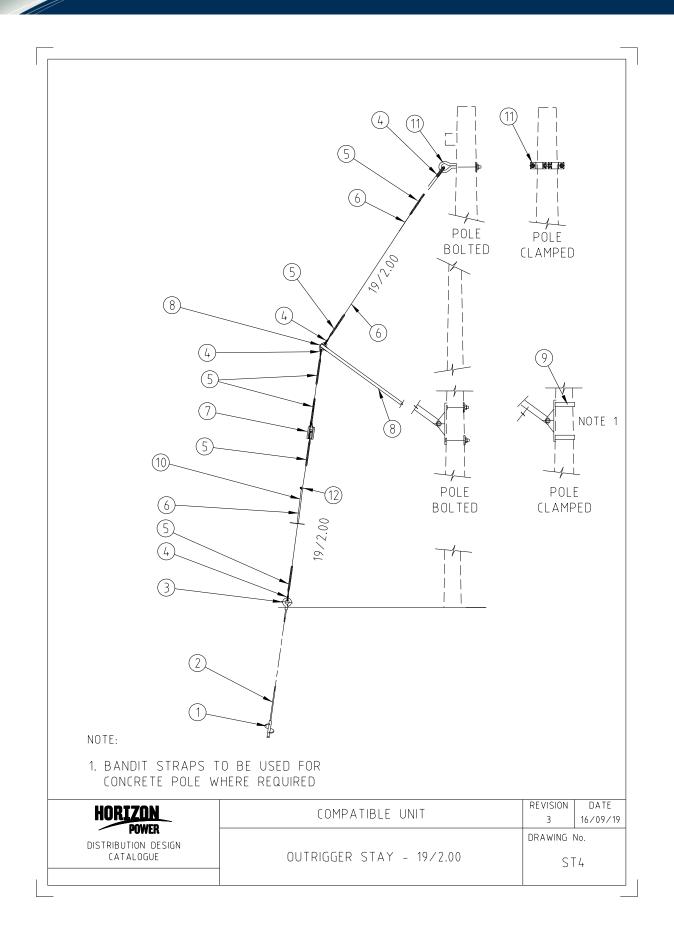
CU	CU DESCRIPTION
ST2_19/200	Aerial stay – 19/2.00 – Pole bolted

Item Number	Stock Number	DESCRIPTION	Q τy R qd	UNIT OF MEASURE	Remarks
1	AB6035	eyebolt 20 dia x 300 mm lg with nut and washers	2	ea	
2	OT0064	rope thimble 20 mm	2	ea	
3	CF0664	Helical termination steel 19/2.00	4	ea	
4	ES0062	stay wire 19/2.00, 15 m coil	1	coil	
5	IA0053	stay insulator	1	ea	

CU	CU DESCRIPTION
ST2_19/200_C	Aerial stay – 19/2.00 – Pole clamped

ITEM NUMBER	Stock Number	DESCRIPTION	Q τy Rqd	UNIT OF MEASURE	Remarks
1	CB3041	stay clamp with 4 x M20 bolts 65 mm lg, nuts and washers	2	set	
2	OT0064	rope thimble 20 mm	2	ea	
3	CF0664	Helical termination steel 19/2.00	4	ea	
4	ES0062	stay wire 19/2.00, 15 m coil	1	coil	
5	IA0053	stay insulator	1	ea	

© Horizon Power Corporation – Document Number: HPC-1DC-07-0006-2014



© Horizon Power Corporation – Document Number: HPC-1DC-07-0006-2014

Page 11 of 16

Issue Date: 30/09/2019

CU	CU DESCRIPTION
ST4	Outrigger stay – 19/2.00 - Pole bolted

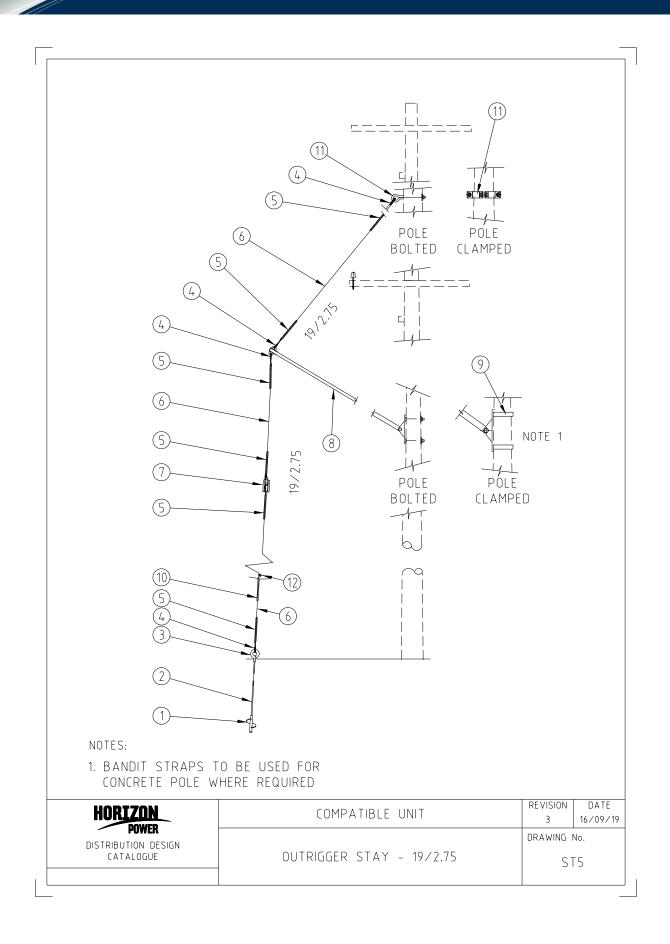
Item Number	Stock Number	DESCRIPTION	Q τy Rqd	UNIT OF MEASURE	Remarks
1	CA0027	screw anchor 200 mm	1	ea	
2	CA0151	rod anchor	1	ea	2.14 m
3	CA9050	thimble eye nut	1	ea	
4	OT0064	rope thimble 20 mm	4	ea	
5	CF0664	Helical termination steel 19/2.00	6	ea	Note 2
6	ES0062	stay wire 19/2.00, 15 m coil	1	coil	
7	IA0053	stay insulator	1	ea	Note 2
8	CB0476	outrigger bracket	1	ea	
10	CG0003	UPVC stay protector helical split style	1	ea	
11	AB6035	eyebolt 20 dia x 300 mm lg with nut and washers	1	ea	
12	OG0351	10 mm saddle clamp wire rope	1	ea	

CU	CU DESCRIPTION
ST4_C	Outrigger stay – 19/2.00 - Pole clamped

Item Number	Stock Number	DESCRIPTION	Q τy R QD	UNIT OF MEASURE	Remarks
1	CA0027	screw anchor 200 mm	1	ea	
2	CA0151	rod anchor	1	ea	2.14 m
3	CA9050	thimble eye nut	1	ea	
4	OT0064	rope thimble 20 mm	4	ea	
5	CF0664	Helical termination steel 19/2.00	6	ea	Note 2
6	ES0062	stay wire 19/2.00, 15 m coil	1	coil	
7	IA0053	stay insulator	1	ea	Note 2
8	CB0476	outrigger bracket	1	ea	
9	FM0900	clamp loop steel saddle mount 270 mm	2	ea	Note 1
10	CG0003	UPVC stay protector helical split style	1	ea	
11	CB3041	stay clamp with 4 x M20 bolts 65 mm lg, nuts and washers	1	set	
12	OG0351	10 mm saddle clamp wire rope	1	ea	

Page 12 of 16

© Horizon Power Corporation – Document Number: HPC-1DC-07-0006-2014



Issue Date: 30/09/2019

© Horizon Power Corporation – Document Number: HPC-1DC-07-0006-2014

Uncontrolled document when printed. Printed copy expires one week from print date. Refer to Document No. for current version.

Page 13 of 16

CU	CU DESCRIPTION
ST5	Outrigger stay – 19/2.75 - Pole bolted

Item Number	Stock Number	DESCRIPTION	Q τy R QD	UNIT OF MEASURE	Remarks
1	CA0029	screw anchor 300 mm	1	ea	
2	CA0151	rod anchor	1	ea	2.14 m
3	CA9050	thimble eye nut	1	ea	
4	OT0064	rope thimble 20 mm	4	ea	
5	CF0662	Helical termination steel 19/2.75	6	ea	Note 2
6	ES0061	stay wire 19/2.75, 15 m coil	1	coil	
7	IA0053	stay insulator	1	ea	Note 2
8	CB0476	outrigger bracket	1	ea	
10	CG0003	UPVC stay protector helical split style	1	ea	
11	AB6035	eyebolt 20 dia x 300 mm lg with nut and washers	1	ea	
12	OG0352	12 mm saddle clamp wire rope	1	ea	

CU	CU DESCRIPTION
ST5_C C	Dutrigger stay – 19/2.75 – Pole clamped

Item Number	Stock Number	DESCRIPTION	Q τy R QD	UNIT OF MEASURE	Remarks
1	CA0029	screw anchor 300 mm	1	ea	
2	CA0151	rod anchor	1	ea	2.14 m
3	CA9050	thimble eye nut	1	ea	
4	OT0064	rope thimble 20 mm	4	ea	
5	CF0662	Helical termination steel 19/2.75	6	ea	Note 2
6	ES0061	stay wire 19/2.75, 15 m coil	1	coil	
7	IA0053	stay insulator	1	ea	Note 2
8	CB0476	outrigger bracket	1	ea	
9	FM0900	clamp loop steel saddle mount 270 mm	2	ea	Note 1
10	CG0003	UPVC stay protector helical split style	1	ea	
11	CB3041	stay clamp with 4 x M20 bolts 65 mm lg, nuts and washers	1	set	
12	OG0352	12 mm saddle clamp wire rope	1	ea	

Page 14 of 16

Issue Date: 30/09/2019

© Horizon Power Corporation – Document Number: HPC-1DC-07-0006-2014

APPENDIX A – REVISION INFORMATION

(Informative) Horizon Power has endeavoured to provide standards of the highest quality and would appreciate notification if any errors are found or even queries raised.

Each Standard makes use of its own comment sheet which is maintained throughout the life of the standard, which lists all comments made by stakeholders regarding the standard.

The document **HPC-1DC-07-0006-COM CS# 2152796** can be used to record any errors or queries found in or pertaining to this standard, which can then be addressed whenever the standard gets reviewed.

Date	Rev No.	Notes	
01/09/2019	4	 CA0027 replaces CA0026 and CA0151 replaces CA0150 in lists: ST1_19/200 	
		 ST1_19/200_C ST4 ST4_C 	
		• CA0029 replaces CA0028 and CA0151 replaces CA0150 in lists:	
		 ST1_19/275 ST1_19/275_C ST5 ST5_C 	
		Include Note 1 and Note 2 in lists of ST4 and ST5	
		Remove Note 1 on Drawing ST2	
		Remove repeated wording (11,12.5m Poles) in all CU descriptions	
		Update ST Index drawing	
		Update Drawing and Drawing title of:	
		 ST4 ST5 	
12/07/2018	3	Index List CU Description	
		• (11, 12.5m Pole) added	
		(11, 12.5m Pole) added to all Lists	
		AB6035 replace AB6037 in lists ST1_19/200, ST1_19/275, ST2_19/200, ST4 & ST5 Pole Bolted	
21/01/2014	2	Index List CU Description	
		 Pole Bolted added to ST1_19/200, ST1_19/275, ST2_19/200, ST4 & ST5 Concrete pole changed to Pole Clamped on ST1_19/200_C, ST1_19/275_C, ST2_19/200_C, ST4_C & ST5_C 	
		ST Index Drawing	
		ST5 changed to reflect drawing ST5	
		ST1 Drawing	

Document Title: Distribution Design Catalogue Page 15 of 16

Issue Date: 30/09/2019

© Horizon Power Corporation – Document Number: HPC-1DC-07-0006-2014

Date	Rev No.	Notes	
		 Steel changed to Pole Bolted Concrete changed to Pole Clamped Item (3) added above stay insulator Item (2) added above thimble eye nut Ground line added Comment (installed over 3) removed 	
		 ST1 List Pole Bolted added to ST1_19/200, ST1_19/275 Concrete pole changed to Pole Clamped on ST1_19/200_C, ST1_19/275_C 	
		ST2 Drawing	
		 Steel changed to Pole Bolted Concrete changed to Pole Clamped 3000 dimension removed Poles now dashed 	
		ST2 List	
		 Pole Bolted added to ST2_19/200 Concrete pole changed to Pole Clamped on ST2_19/200_C 	
		ST4 Drawing	
		 Steel changed to Pole Bolted Concrete changed to Pole Clamped Item (4) added above thimble eye nut Comment (installed over 5) removed All dimensions removed Notes added (1-Bandit straps to be used) Poles now dashed Item (7) stay insulator moved to below outrigger 	
		ST4 &ST4_C Lists	
		Pole Bolted added to ST4Concrete pole changed to Pole Clamped on ST4_C	
		ST5 Drawing	
		 Steel changed to Pole Bolted Concrete changed to Pole Clamped Item (4) added above thimble eye nut Item (12) and (6) added above and below conduit Comment (installed over 5) removed All dimensions removed Notes added (1-Bandit straps to be used) Poles now dashed 	
		ST5 & ST5_C Lists	
		 Pole Bolted added to ST5 Concrete pole changed to Pole Clamped on ST5_C Item (12) OG0352 12 mm saddle clamp wire rope added to both lists 	
01/07/2009	1	Original Horizon Power issue	
	0	Western Power Supplied	
29/08/2022	5	Note 2 Updated	

Page 16 of 16

Issue Date: 30/09/2019

© Horizon Power Corporation – Document Number: HPC-1DC-07-0006-2014 Uncontrolled document when printed. Printed copy expires one week from print date. Refer to Document No. for current version.