
SECTION 11- STAYS

VERSION 1.1

SECTION 11 – STAYS

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11.1 General Notes


CAUTION : Printed document is uncontrolled.

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A	<p>NOTES</p> <p>1. EXISTING 7/2.75 STAYWIRE AND 16MM HARDWARE MAY BE RETAINED SUBJECT TO STRENGTH LIMITATIONS.</p> <p>2. MINIMUM CLEARANCES OF AERIAL STAYWIRES:</p> <p style="padding-left: 40px;">OVER ROADS: 5.5m OVER PRIVATE DRIVEWAYS: 4.6m OVER ALL OTHER: 3.0m</p> <p>3. MINIMUM CLEARANCES TO BE MAINTAINED IN ANY DIRECTION BETWEEN STAYWIRES AND OTHER CONDUCTORS ARE: TO LV CONDUCTORS: 230mm (ACTIVE), 150mm (NEUTRAL). TO 11kV OR 22kV CONDUCTORS: 460mm.</p> <p>4. RAKE OF STAYPOLE AND POLE BEING STAYED, TO BE APPROXIMATELY HALF POLE HEAD DIAMETER BEFORE TENSIONING UP.</p> <p>5. EYEBOLTS TO BE INSTALLED WITH EYE HARD ON POLE AND AT LEAST ONE FULL THREAD PROTRUDING THROUGH NUT OR EYE NUT.</p> <p>6. ITEM 2A STRAP TO BE DRILLED 18mm DIAMETER BOTH ENDS TO TAKE 16mm DIAMETER BOLTS. APPLY ZINC RICH SPRAY PAINT (COLD GALV).</p> <p>7. ITEM 105C RC ANCHOR BLOCK INSTALLED AS BREAST LOG NEED ONLY BE USED IN POOR HOLDING GROUND OR AS SHOWN IN D-OH1-0225-SD-001 FOR WOOD POLES.</p> <p>8. WHERE NECESSARY THE DISTANCE OF 3650mm IS TO BE INCREASED TO ENSURE THAT THE SECTION OF STAY WIRE BELOW THE STAY INSULATOR WILL NOT MAKE CONTACT WITH BARE HV OR LV CONDUCTORS SHOULD THE STAYWIRE BREAK AND FALL TOWARDS THE POLE. THE ADDITIONAL DISC INSULATOR IS TO BE INSTALLED AS SHOWN ON DRAWING D-OHC-L002-SD-001 WHERE THE STAYWIRE ON A WOOD POLE COULD BREAK AND CONTACT HV CONDUCTORS IN FALLING.</p> <p>9. STAYWIRES SHOULD NOT PASS OVER OR THROUGH THE OPERATING AREA ABOVE OPERATING PLATFORMS FROM THE FLOOR LEVEL TO A DISTANCE OF 2600mm FROM THE PLATFORM FLOOR. WHERE A STAY IS INSTALLED IN THIS AREA ON WOOD POLES, ADDITIONAL INSULATION MUST BE PROVIDED ON THE STAYWIRE AS SHOWN ON DRAWINGS D-OHC-L002-SD-001, D-OHC-L003-SD-001, AND D-OHC-L004-SD-001.</p> <p>10. LOCK NUTS SHALL BE INSTALLED ON ALL BOLTS PASSING THROUGH WOOD POLE. WASHERS SHALL BE INSTALLED ON BOTH SIDE OF BOLT. (BOLT IS SUPPLIED WITH ONE NUT & WASHER. LOCK NUT & OPPOSITE SIDE WASHER TO BE ORDERED SEPARATELY)</p>				
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EMF/PDF CREATION DATE 06/FEB/19

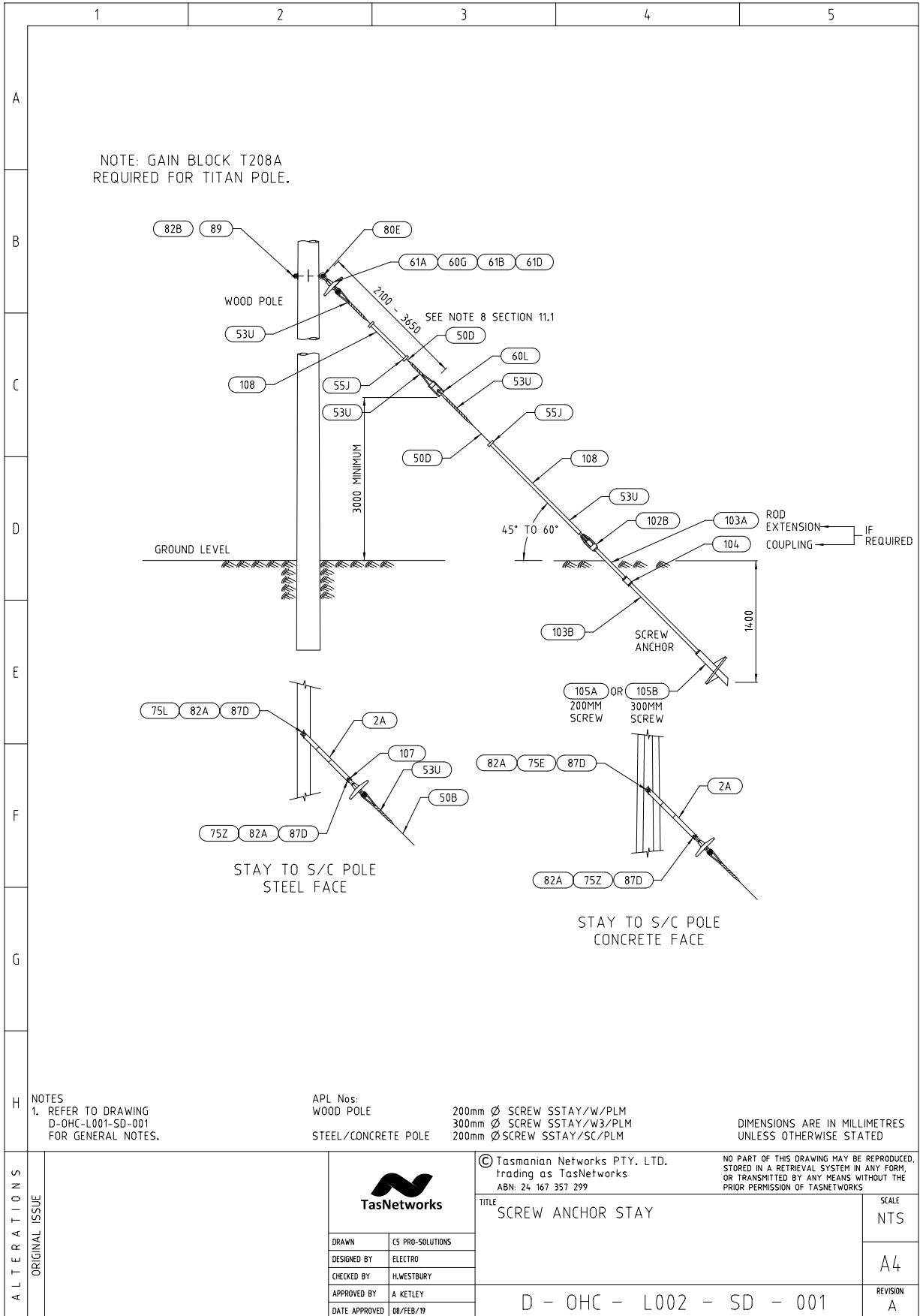
ALTERATIONS ORIGINAL ISSUE

BM DWG NO D - OHC - L001 - SD - 001
BM REV A

ALTERATIONS ORIGINAL ISSUE			© Tasmanian Networks PTY. LTD. trading as TasNetworks ABN: 24 167 357 299		NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM IN ANY FORM, OR TRANSMITTED BY ANY MEANS WITHOUT THE PRIOR PERMISSION OF TASNETWORKS		
	TITLE STAYS - GENERAL NOTES				SCALE NTS		
	DRAWN	CS PRO-SOLUTIONS		D - OHC - L001 - SD - 001		A4	
	DESIGNED BY	ELECTRO					
	CHECKED BY	H.WESTBURY					
APPROVED BY	A KETLEY						
DATE APPROVED	06/FEB/19				REVISION A		


DWG STATUS CONSTRUCTION

11.2 Screw Anchor Stay

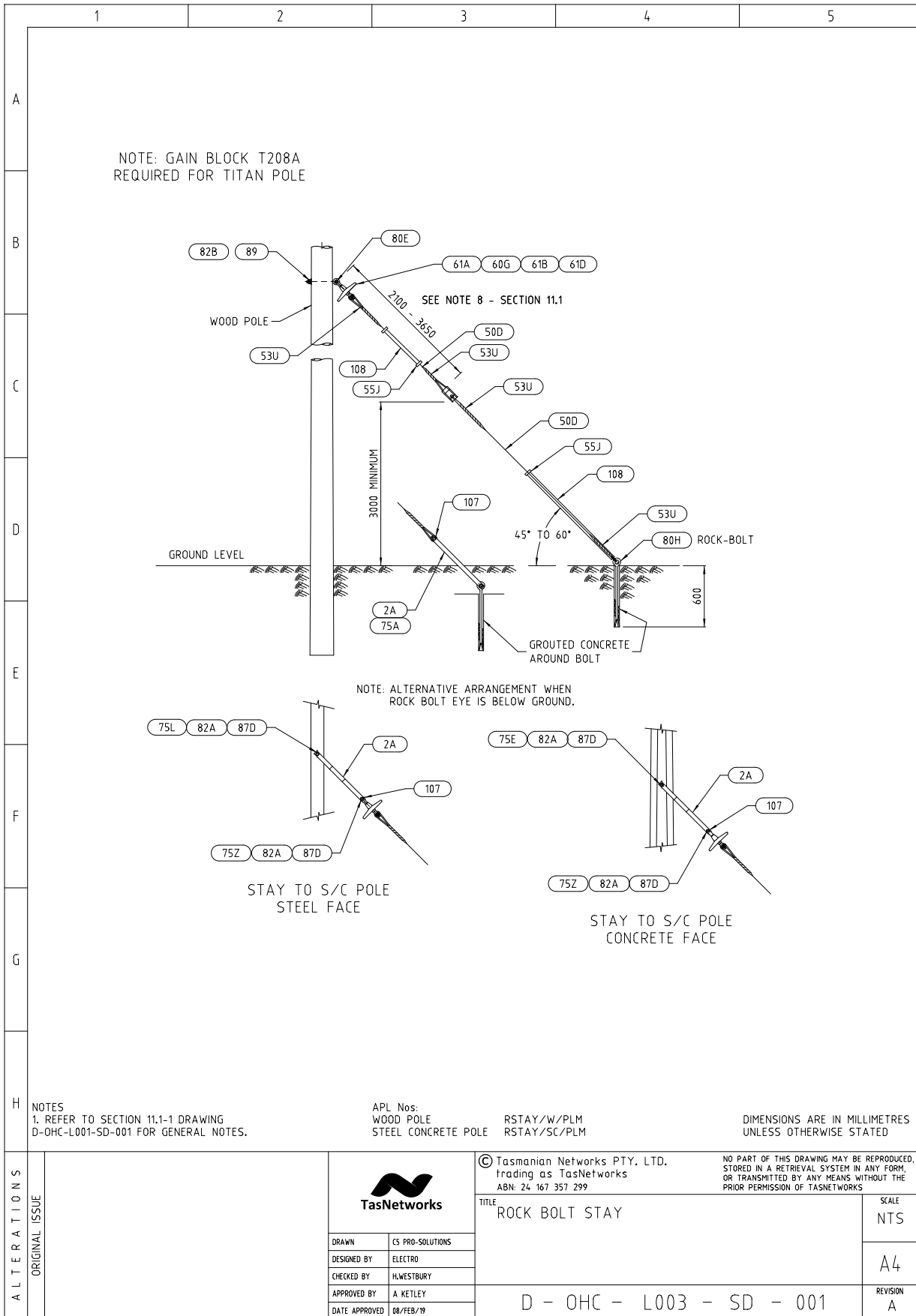


Screw Anchor Stay - Materials List


1	2	3	4	5			
A	SSTAY/W/PLM	S	108	325719	PROTECTOR,GUY SLIT PVC 25MM X 2000MM WH	2	
			103B	325844	ANCHOR,ROD SCREW 20MM X 2140MM M24 NUT	1	
			105A	325817	ANCHOR,GUY SINGLE HELIX 200MM X M24 ROD	1	
			50D	438920	WIRE ROPE,Strand 19/2.00 G1320 50m Coil	14	
			53U	148511	DEADEND,FULL TENSION 19/2.00 GAL.COND	4	
			B	55J	146857	CONNECTOR,CLAMP D SPLIT BOLT 95MM2 MAX	3
				60G	321260	INSULATOR,SUSPENSION 146MM DISC D70S	1
				60L	320403	INSULATOR,STRAIN GY3 LILING GUY-TYPE	1
				61A	322056	CLEVIS,ROD-END BALL 16MM 70KN MIN-FAIL	1
				61B	322386	CONNECTOR,ROD-END 16MM 80KN MIN-FAIL MCI	1
			C	61D	322090	CLIP,SECURITY 7.9MM S/STEEL 16B-WCLIP	1
				80E	37263	EYE BOLT,FORGED M20 X 375MM GAL C/W NUT	1
				82B	40442	NUT,HEX M20 THREAD GALANISED STEEL	1
				89	66803	WASHER,Flat Round M20 x 75mm Gal	1
			D	SSTAY/W3/PLM	S	108	325719
103B	325844	ANCHOR,ROD SCREW 20MM X 2140MM M24 NUT				1	
105B	325818	ANCHOR,GUY SINGLE HELIX 300MM X M24 ROD				1	
50D	438920	WIRE ROPE,Strand 19/2.00 G1320 50m Coil				14	
53U	148511	DEADEND,FULL TENSION 19/2.00 GAL.COND				4	
E	55J	146857				CONNECTOR,CLAMP D SPLIT BOLT 95MM2 MAX	3
	60G	321260				INSULATOR,SUSPENSION 146MM DISC D70S	1
	60L	320403				INSULATOR,STRAIN GY3 LILING GUY-TYPE	1
	61A	322056				CLEVIS,ROD-END BALL 16MM 70KN MIN-FAIL	1
	61B	322386				CONNECTOR,ROD-END 16MM 80KN MIN-FAIL MCI	1
F	61D	322090				CLIP,SECURITY 7.9MM S/STEEL 16B-WCLIP	1
	80E	37263				EYE BOLT,FORGED M20 X 375MM GAL C/W NUT	1
	82B	40442				NUT,HEX M20 THREAD GALANISED STEEL	1
	89	66803				WASHER,Flat Round M20 x 75mm Gal	1
G	SSTAY/SC/PLM	S				107	265216
			108	325719	PROTECTOR,GUY SLIT PVC 25MM X 2000MM WH	2	
			103B	325844	ANCHOR,ROD SCREW 20MM X 2140MM M24 NUT	1	
			105A	325817	ANCHOR,GUY SINGLE HELIX 200MM X M24 ROD	1	
			2A	323314	BRACE,CROSSARM 40 X 700 X 5MM THICK GAL	2	
			H	50D	438920	WIRE ROPE,Strand 19/2.00 G1320 50m Coil	14
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			61B	322386	CONNECTOR,ROD-END 16MM 80KN MIN-FAIL MCI	1	
			61D	322090	CLIP,SECURITY 7.9MM S/STEEL 16B-WCLIP	1	
			75E	32279	BOLT,HEX HEAD M16 X 180MM GAL. C/W NUT	1 (or AR)	
			75L	32286	BOLT,HEX HEAD M16 X 300MM GAL. C/W NUT	1 (or AR)	
75Z	32261	BOLT,HEX HEAD M16 X 45MM GAL. C/W NUT	1				
82A	40441	NUT,HEX M16 THREAD GALANISED STEEL	2				
T208A	323306	Gain Block 100mm	1				
87D	65616	WASHER,Flat Round M16 x 30mm Gal	2				

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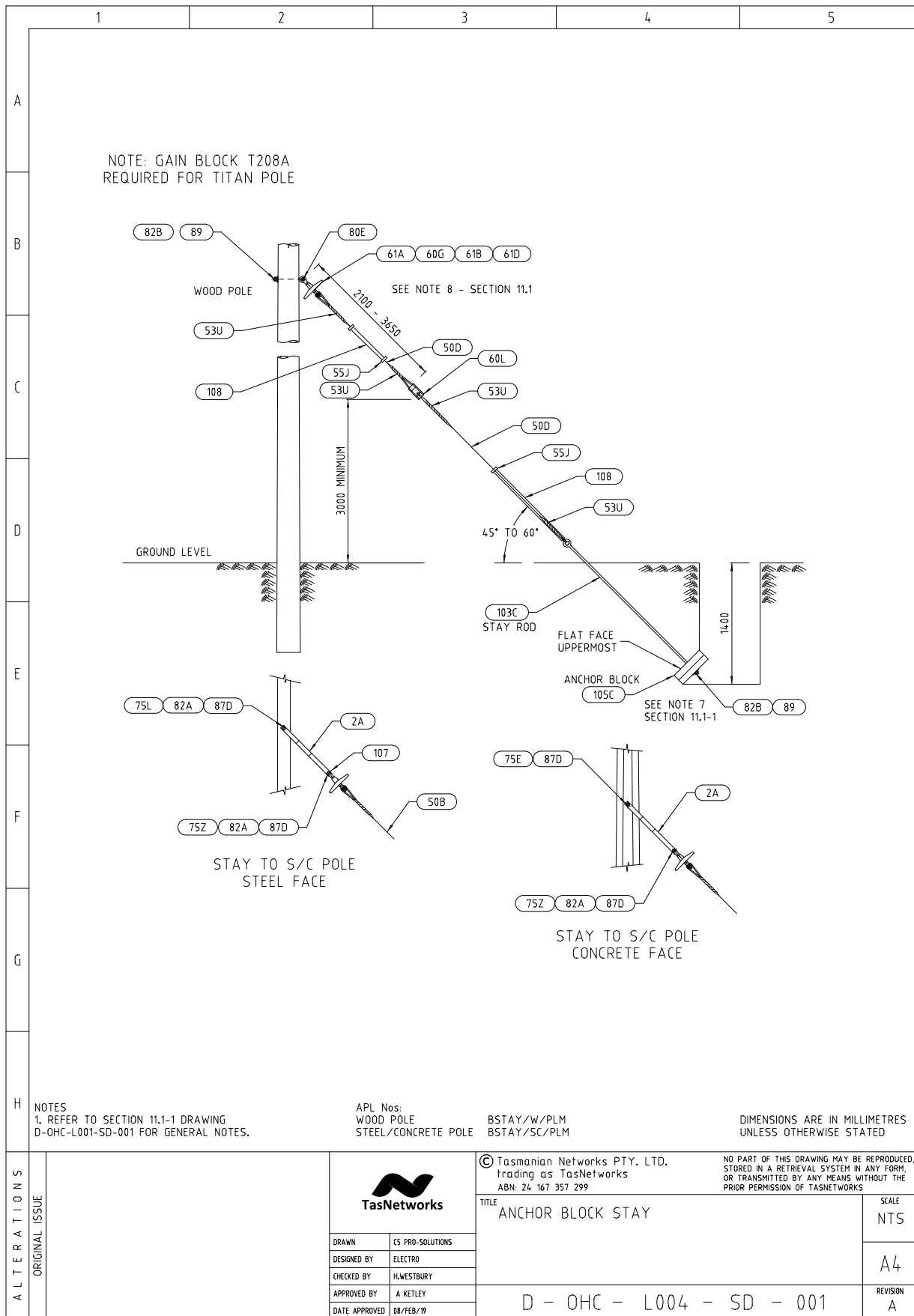
11.3 Rock Bolt Stay



Rock Bolt Stay - Materials List

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11.4 Anchor Block Stay




Anchor Block Stay - Materials List

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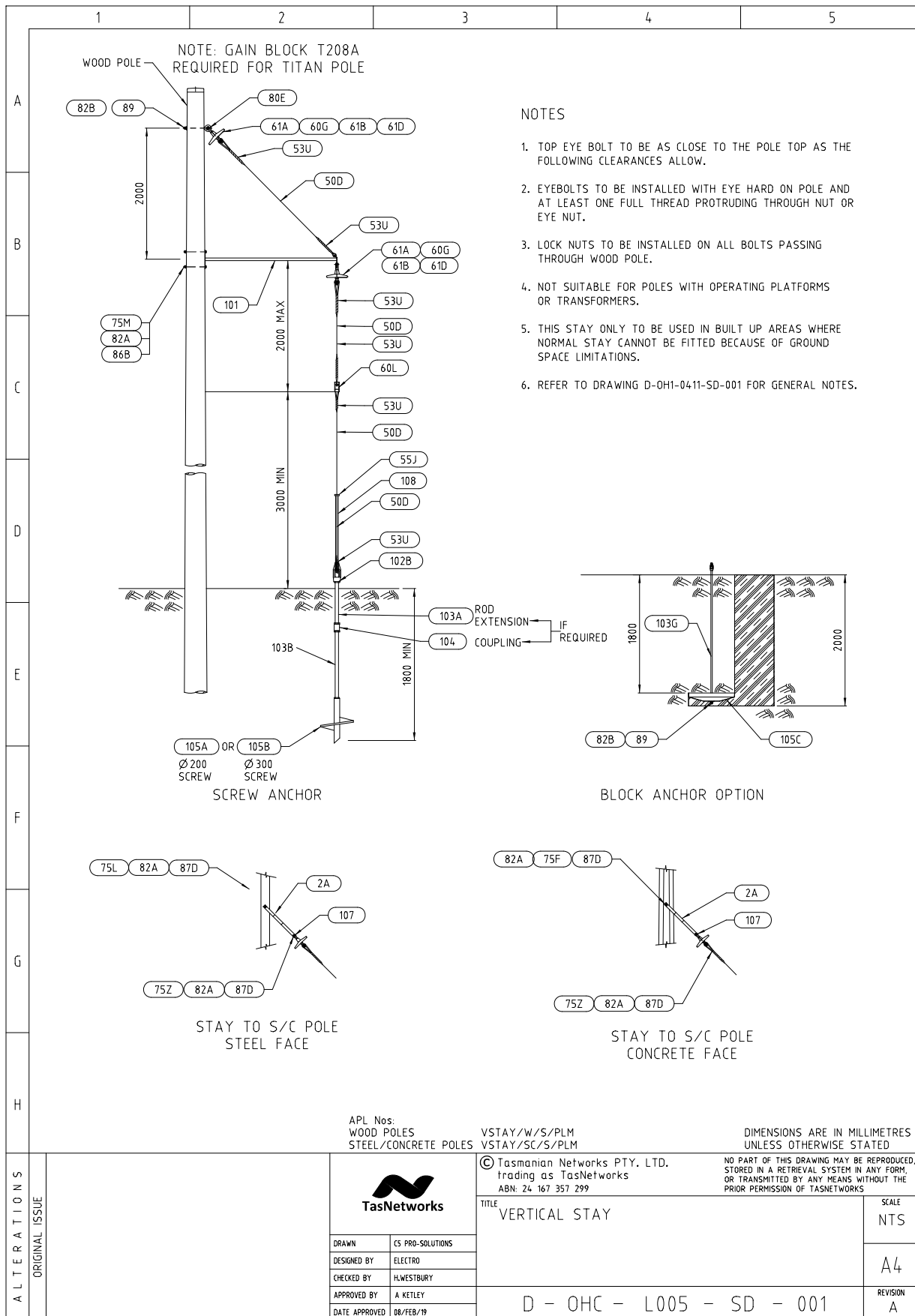
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		103C	325692	GUY ASSEMBLY,FORGED EYE M20 X2100MM	1
		105C	77506	BLOCK,PRECAST CONCRETE D-OH1-1.2/1 REV.2	1
		50D	438920	WIRE ROPE,Strand 19/2.00 G1320 50m Coil	14
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		61B	322386	CONNECTOR,ROD-END 16MM 80KN MIN-FAIL MCI	1
		61D	322090	CLIP,SECURITY 7.9MM S/STEEL 16B-WCLIP	1
		80E	37263	EYE BOLT,FORGED M20 X 375MM GAL C/W NUT	1
		82B	40442	NUT,HEX M20 THREAD GALANISED STEEL	2
BSTAY/SC/PLM	S	107	265216	THIMBLE,Wire Rope 16mm Gal.Steel	1
		108	325719	PROTECTOR,GUY SLIT PVC 25MM X 2000MM WH	2
		103C	325692	GUY ASSEMBLY,FORGED EYE M20 X2100MM	1
		105C	77506	BLOCK,PRECAST CONCRETE D-OH1-1.2/1 REV.2	1
		2A	323314	BRACE,CROSSARM 40 X 700 X 5MM THICK GAL	2
		50D	438920	WIRE ROPE,Strand 19/2.00 G1320 50m Coil	14
		53U	148511	DEADEND,FULL TENSION 19/2.00 GAL.COND	4
		55J	146857	CONNECTOR,CLAMP D SPLIT BOLT 95MM2 MAX	3
		60G	321260	INSULATOR,SUSPENSION 146MM DISC D70S	1
		60L	320403	INSULATOR,STRAIN GY3 LILING GUY-TYPE	1
		61A	322056	CLEVIS,ROD-END BALL 16MM 70KN MIN-FAIL	1
		61B	322386	CONNECTOR,ROD-END 16MM 80KN MIN-FAIL MCI	1
		61D	322090	CLIP,SECURITY 7.9MM S/STEEL 16B-WCLIP	1
		75E	32279	BOLT,HEX HEAD M16 X 180MM GAL. C/W NUT	1 (or AR)
		75L	32286	BOLT,HEX HEAD M16 X 300MM GAL. C/W NUT	1 (or AR)
		75Z	32261	BOLT,HEX HEAD M16 X 45MM GAL. C/W NUT	1
		82A	40441	NUT,HEX M16 THREAD GALANISED STEEL	2
		82B	40442	NUT,HEX M20 THREAD GALANISED STEEL	1
		86C	65159	WASHER,Flat Round M20 x 60mm Gal	1
87D	65616	WASHER,Flat Round M16 x 30mm Gal	2		
T208A	323306	Gain Block 100mm	1		

BM DWG NO

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		TITLE ANCHOR BLOCK STAY MATERIALS LIST			SCALE NTS
		DRAWN	ES PRO-SOLUTIONS		A4
		DESIGNED BY	ELECTRO		
		CHECKED BY	HLWESTBURY		
APPROVED BY	A KETLEY				
DATE APPROVED	08/FEB/19		REVISION A		


D - OHC - L004 - SD - 002

11.5 Vertical Stay

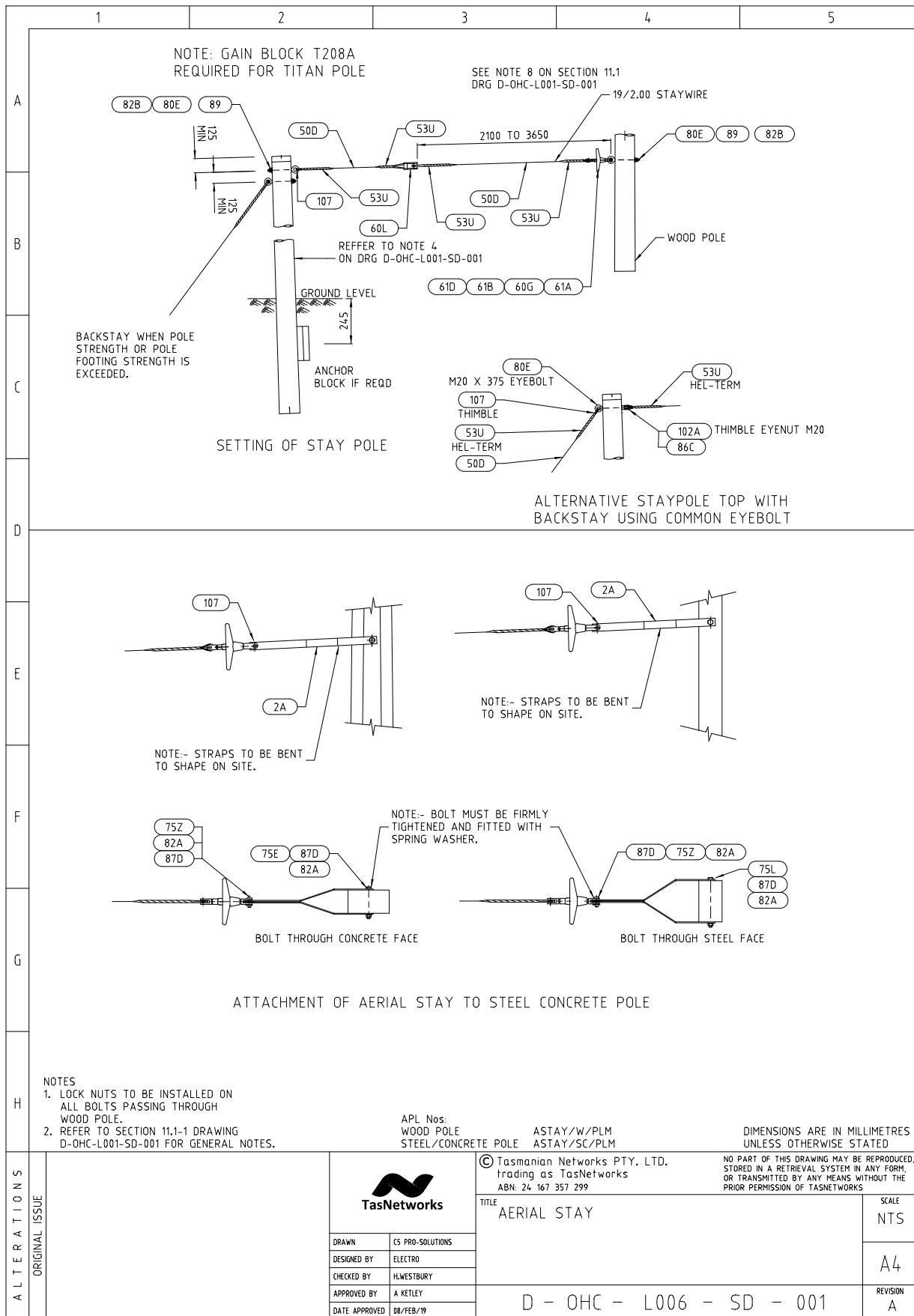


Vertical Stay - Materials List


1	2	3	4	5					
A									
B	VSTAY/W/S/PLM	S	89	66803	WASHER,Flat Round M20 x 75mm Gal	1			
			101	323379	SUPPORT,Stay40 x40 x2000mm Vertical	1			
			108	325719	PROTECTOR,GUY SLIT PVC 25MM X 2000MM WH	2			
			105A	325817	ANCHOR,GUY SINGLE HELIX 200MM X M24 ROD	1 (or AR)			
			105B	325818	ANCHOR,GUY SINGLE HELIX 300MM X M24 ROD	1 (or AR)			
			50D	438920	WIRE ROPE,Strand 19/2.00 G1320 50m Coil	14			
			53U	148511	DEADEND,FULL TENSION 19/2.00 GAL.COND	6			
			55J	146857	CONNECTOR,CLAMP D SPLIT BOLT 95MM2 MAX	1			
			60G	321260	INSULATOR,SUSPENSION 146MM DISC D70S	2			
			60L	320403	INSULATOR,STRAIN GY3 LILING GUY-TYPE	1			
			61A	322056	CLEVIS,ROD-END BALL 16MM 70KN MIN-FAIL	2			
			61B	322386	CONNECTOR,ROD-END 16MM 80KN MIN-FAIL MCI	2			
			61D	322090	CLIP,SECURITY 7.9MM S/STEEL 16B-WCLIP	2			
			75M	32287	BOLT,HEX HEAD M16 X 325MM GAL. C/W NUT	2			
			80E	37263	EYE BOLT,FORGED M20 X 375MM GAL C/W NUT	1			
			D			82A	40441	NUT,HEX M16 THREAD GALANISED STEEL	2
						82B	40442	NUT,HEX M20 THREAD GALANISED STEEL	1
						86B	65158	WASHER,Flat Round M16 x 50mm Gal	4
	325844	ANCHOR,ROD SCREW 20MM X 2140MM M24 NUT				1			
E	VSTAY/SC/S/PLM	S	101	323379	SUPPORT,Stay40 x40 x2000mm Vertical	1			
			107	265216	THIMBLE,Wire Rope 16mm Gal.Steel	1			
			108	325719	PROTECTOR,GUY SLIT PVC 25MM X 2000MM WH	2			
			105A	325817	ANCHOR,GUY SINGLE HELIX 200MM X M24 ROD	1 (or AR)			
			105B	325818	ANCHOR,GUY SINGLE HELIX 300MM X M24 ROD	1 (or AR)			
			2A	323314	BRACE,CROSSARM 40 X 700 X 5MM THICK GAL	2			
			50D	438920	WIRE ROPE,Strand 19/2.00 G1320 50m Coil	14			
			53U	148511	DEADEND,FULL TENSION 19/2.00 GAL.COND	6			
			55J	146857	CONNECTOR,CLAMP D SPLIT BOLT 95MM2 MAX	3			
			60G	321260	INSULATOR,SUSPENSION 146MM DISC D70S	2			
			60L	320403	INSULATOR,STRAIN GY3 LILING GUY-TYPE	1			
			61A	322056	CLEVIS,ROD-END BALL 16MM 70KN MIN-FAIL	2			
			61B	322386	CONNECTOR,ROD-END 16MM 80KN MIN-FAIL MCI	2			
			61D	322090	CLIP,SECURITY 7.9MM S/STEEL 16B-WCLIP	2			
			75L	32286	BOLT,HEX HEAD M16 X 300MM GAL. C/W NUT	3			
			75M	32287	BOLT,HEX HEAD M16 X 325MM GAL. C/W NUT	2			
			75Z	32261	BOLT,HEX HEAD M16 X 45MM GAL. C/W NUT	1			
			G			82A	40441	NUT,HEX M16 THREAD GALANISED STEEL	4
						86B	65158	WASHER,Flat Round M16 x 50mm Gal	4
						87D	65616	WASHER,Flat Round M16 x 30mm Gal	2
T208A	323306	Gain Block 100mm				1			
H									

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		TITLE VERTICAL STAYS MATERIALS LIST			SCALE NTS	
		DRAWN	CS PRO-SOLUTIONS			
		DESIGNED BY	ELECTRO			
		CHECKED BY	HLWESTBURY			
APPROVED BY	A KETLEY	D - OHC - L005 - SD - 002				
DATE APPROVED	08/FEB/19				REVISION A	

11.6 Aerial Stay



Aerial Stay - Materials List

		1	2	3	4	5	
EMF/PDF CREATION DATE ALTERATIONS ORIGINAL ISSUE	A						
	B	Unit Assembly	Store Type	Item Ref	Stock Item	Stock Item Description	Quantity
	C	ASTAY/W/PLM	S	89	66803	WASHER,Flat Round M20 x 75mm Gal	2
				50D	438920	WIRE ROPE,Strand 19/2.00 G1320 50m Coil	25
				53U	148511	DEADEND,FULL TENSION 19/2.00 GAL.COND	4
				60G	321260	INSULATOR,SUSPENSION 146MM DISC D70S	1
				60L	320403	INSULATOR,STRAIN GY3 LILING GUY-TYPE	1
				61A	322056	CLEVIS,ROD-END BALL 16MM 70KN MIN-FAIL	1
				61B	322386	CONNECTOR,ROD-END 16MM 80KN MIN-FAIL MCI	1
				61D	322090	CLIP,SECURITY 7.9MM S/STEEL 16B-WCLIP	1
				80E	37263	EYE BOLT,FORGED M20 X 375MM GAL C/W NUT	2
				82B	40442	NUT,HEX M20 THREAD GALANISED STEEL	2
	D	ASTAY/SC/PLM	S	107	265216	THIMBLE,Wire Rope 16mm Gal.Steel	2
				2A	323314	BRACE,CROSSARM 40 X 700 X 5MM THICK GAL	2
				50D	438920	WIRE ROPE,Strand 19/2.00 G1320 50m Coil	25
				53U	148511	DEADEND,FULL TENSION 19/2.00 GAL.COND	4
				60G	321260	INSULATOR,SUSPENSION 146MM DISC D70S	1
				60L	320403	INSULATOR,STRAIN GY3 LILING GUY-TYPE	1
				61A	322056	CLEVIS,ROD-END BALL 16MM 70KN MIN-FAIL	1
				61B	322386	CONNECTOR,ROD-END 16MM 80KN MIN-FAIL MCI	1
61D				322090	CLIP,SECURITY 7.9MM S/STEEL 16B-WCLIP	1	
75E				32279	BOLT,HEX HEAD M16 X 180MM GAL. C/W NUT	1 (or AR)	
E			75L	32286	BOLT,HEX HEAD M16 X 300MM GAL. C/W NUT	1 (or AR)	
			75Z	32261	BOLT,HEX HEAD M16 X 45MM GAL. C/W NUT	1	
			80E	37263	EYE BOLT,FORGED M20 X 375MM GAL C/W NUT	1	
			82A	40441	NUT,HEX M16 THREAD GALANISED STEEL	2	
			82B	40442	NUT,HEX M20 THREAD GALANISED STEEL	1	
			86C	65159	WASHER,Flat Round M20 x 60mm Gal	1	
F			87D	65616	WASHER,Flat Round M16 x 30mm Gal	2	
			T208A	323306	Gain Block 100mm	1	
G							
H							
				© Tasmanian Networks PTY. LTD. trading as TasNetworks ABN: 24 167 357 299		NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM IN ANY FORM, OR TRANSMITTED BY ANY MEANS WITHOUT THE PRIOR PERMISSION OF TASNETWORKS	
		DRAWN CS PRO-SOLUTIONS DESIGNED BY ELECTRO CHECKED BY HLWESTBURY APPROVED BY A KETLEY DATE APPROVED 08/FEB/19		TITLE AERIAL STAY MATERIALS LIST		SCALE NTS	
		D - OHC - L006 - SD - 002				REVISION A	

11.7 Stay Components

11.7.1 EyeBolts

CAUTION : Printed document is uncontrolled.

	1	2	3	4	5																
A																					
B																					
C	<p style="text-align: center;">ITEM 80 - STAY POLE BOLT ASSEMBLY EYE BOLT - FORGED</p> <p style="text-align: center;">MATERIAL: AS 1442 CS 1030 OR EQUIVALENT. SI No (SEE TABLE)</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>L</th> <th>SI No</th> </tr> </thead> <tbody> <tr> <td>280</td> <td>03.72.58</td> </tr> <tr> <td>300</td> <td>03.72.59</td> </tr> <tr> <td>325</td> <td>03.72.60</td> </tr> <tr> <td>350</td> <td>03.72.61</td> </tr> <tr> <td>375</td> <td>03.72.63</td> </tr> <tr> <td>400</td> <td>03.72.62</td> </tr> <tr> <td>600</td> <td>325442</td> </tr> </tbody> </table>					L	SI No	280	03.72.58	300	03.72.59	325	03.72.60	350	03.72.61	375	03.72.63	400	03.72.62	600	325442
L	SI No																				
280	03.72.58																				
300	03.72.59																				
325	03.72.60																				
350	03.72.61																				
375	03.72.63																				
400	03.72.62																				
600	325442																				
D	<p style="text-align: center;">WASHER MATERIAL: GMS</p>																				
E	<p style="text-align: center;">ITEM 107 - THIMBLE MATERIAL: GMS SI No 26.52.16</p>																				
F	<p style="text-align: center;">NOTES</p> <ol style="list-style-type: none"> 1. MATERIAL: EYE BOLTS TO BE FORGED OR FABRICATED FROM HOT ROLLED CARBON STEEL AS 1442/CS1030 OR EQUIVALENT. 2. THREADS: THE FORM OF THREAD SHALL BE ISO METRIC COARSE PITCH SERIES 8g CLASS FOR EXTERNAL THREADS TO AS 1275. 3. PROTECTIVE COATING: EYE BOLTS, NUTS, WASHERS AND THIMBLES TO BE HOT DIP GALVANIZED. THE MASS AND QUALITY OF COATING AND THE FINISH OF THE THREADS TO MEET THE REQUIREMENTS OF AS 1214. 4. MINIMUM FAILING LOAD: THE TENSILE FAILING LOAD OF THE EYE BOLTS TO BE NOT LESS THAN 98kN FOR THE DIAMETER 20 TYPE. 5. EYE BOLTS AND NUTS TO BE MARKED WITH 'M' IN ACCORDANCE WITH CLAUSE 7.4 (b) AS 1112 - 1980. 6. THIMBLE TO BE IN ACCORDANCE WITH AS 1138 TABLE 2. 7. EXTRA LARGE SERIES WASHER IN ACCORDANCE WITH AS 1237, TABLE A1. 																				
G	<p style="text-align: right;">DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED</p> <p style="text-align: right;">NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM IN ANY FORM, OR TRANSMITTED BY ANY MEANS WITHOUT THE PRIOR PERMISSION OF TASNETWORKS</p>																				
H																					
I			<p>© Tasmanian Networks PTY. LTD. trading as TasNetworks ABN: 24 167 357 299</p>		<p>SCALE NTS</p>																
J	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">DRAWN</td> <td style="width: 50%;">CS PRO-SOLUTIONS</td> </tr> <tr> <td>DESIGNED BY</td> <td>ELECTRO</td> </tr> <tr> <td>CHECKED BY</td> <td>H.WESTBURY</td> </tr> <tr> <td>APPROVED BY</td> <td>A.KETLEY</td> </tr> <tr> <td>DATE APPROVED</td> <td>08/FEB/19</td> </tr> </table>		DRAWN	CS PRO-SOLUTIONS	DESIGNED BY	ELECTRO	CHECKED BY	H.WESTBURY	APPROVED BY	A.KETLEY	DATE APPROVED	08/FEB/19	<p>TITLE</p> <p style="font-size: 1.2em;">STAY COMPONENTS EYEBOLTS</p>		<p>SCALE</p> <p style="font-size: 1.2em;">A4</p>						
DRAWN	CS PRO-SOLUTIONS																				
DESIGNED BY	ELECTRO																				
CHECKED BY	H.WESTBURY																				
APPROVED BY	A.KETLEY																				
DATE APPROVED	08/FEB/19																				
K	<p>DWG STATUS</p> <p style="font-size: 1.2em;">CONSTRUCTION</p>		<p>D - OHC - L007 - SD - 001</p>		<p>REVISION</p> <p style="font-size: 1.2em;">A</p>																

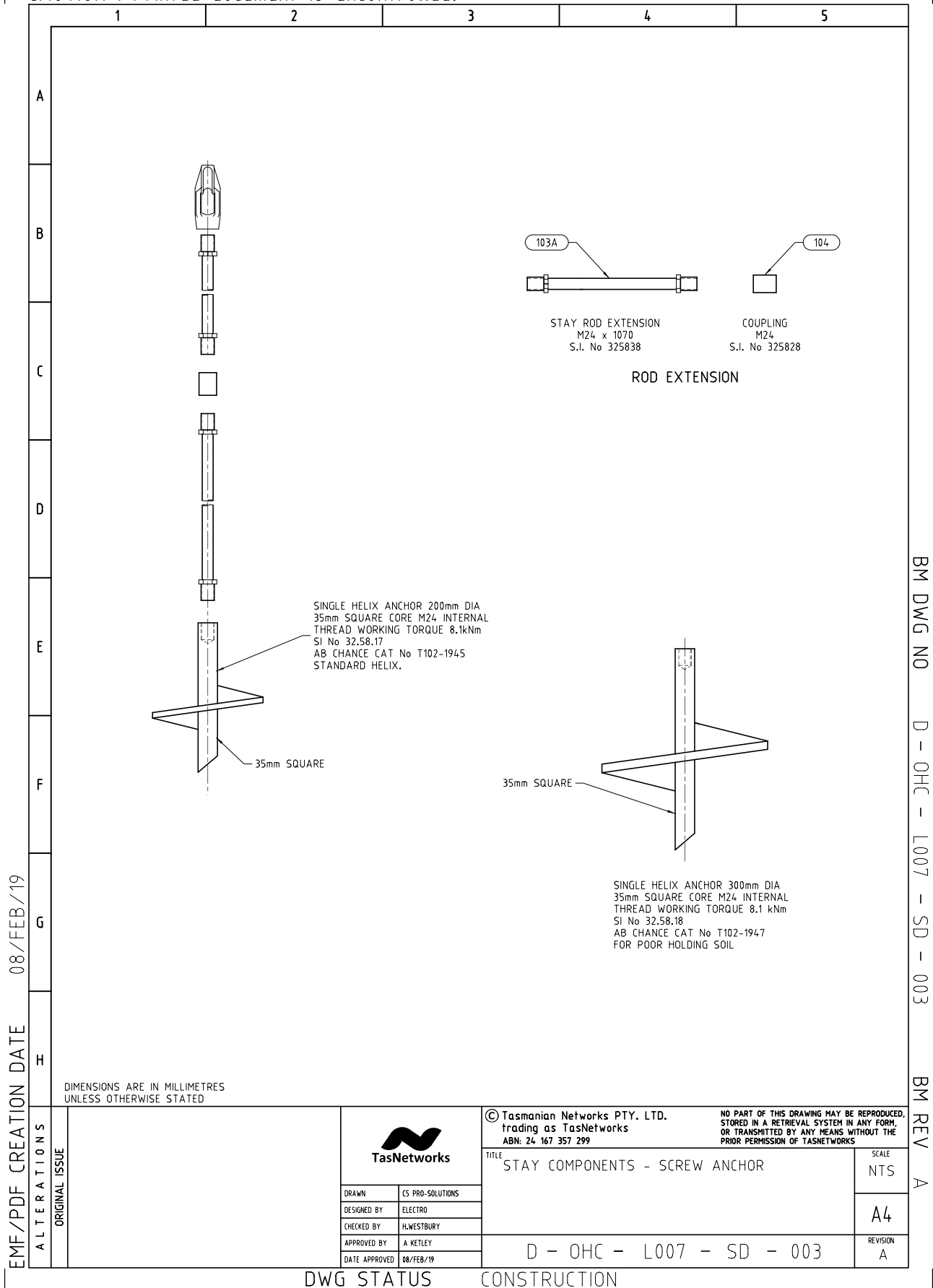
EMF/PDF CREATION DATE 08/FEB/19

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11.7.2 Screw Anchor


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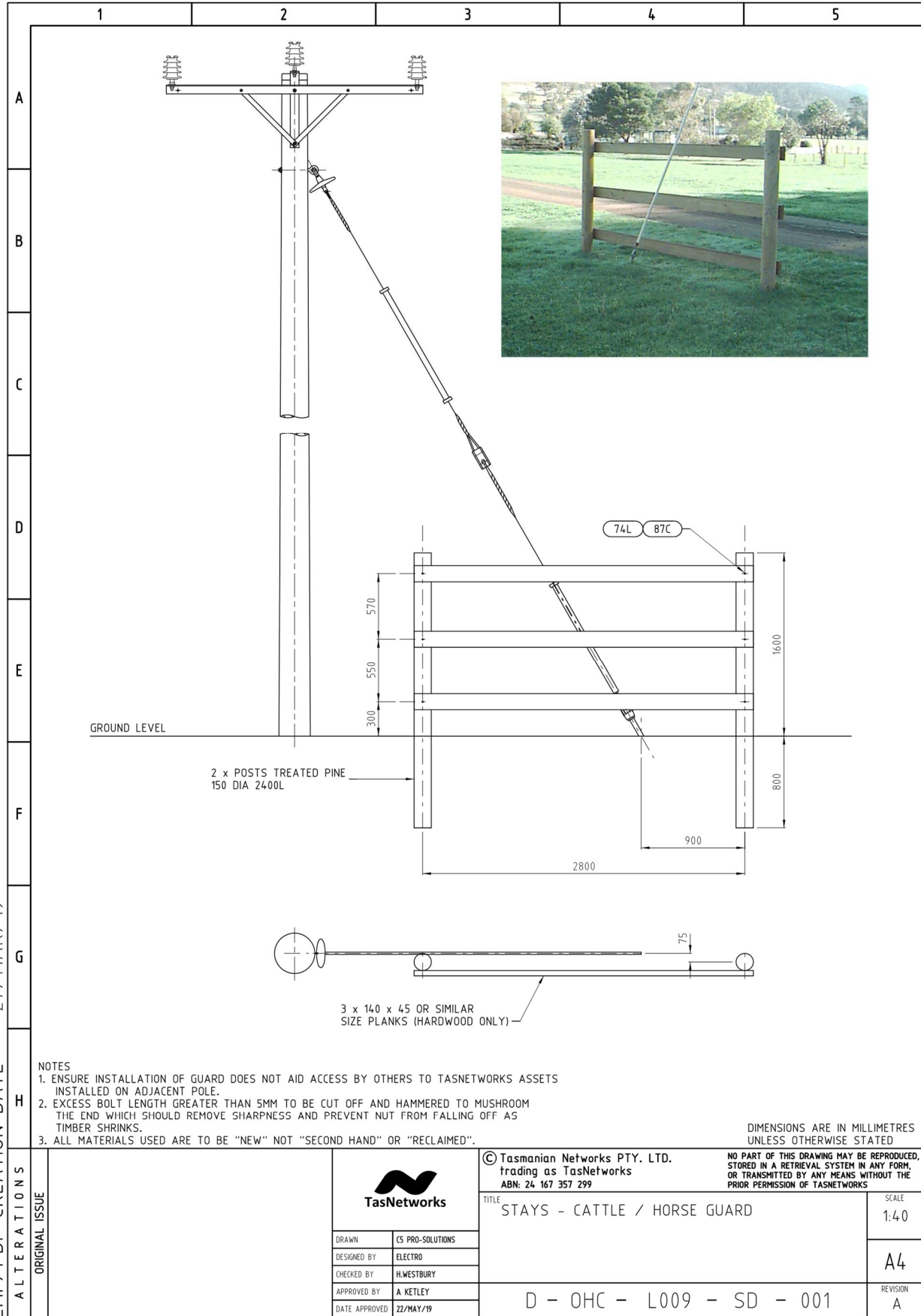
DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED

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		DRAWN	ES PRO-SOLUTIONS	TITLE STAY COMPONENTS - SCREW ANCHOR		SCALE NTS A4	
		DESIGNED BY	ELECTRO				
		CHECKED BY	H.WESTBURY				
		APPROVED BY	A KETLEY				
	DATE APPROVED	08/FEB/19	D - OHC - L007 - SD - 003		REVISION A		

DWG STATUS CONSTRUCTION

11.7.3 Cattle / Horse Guard

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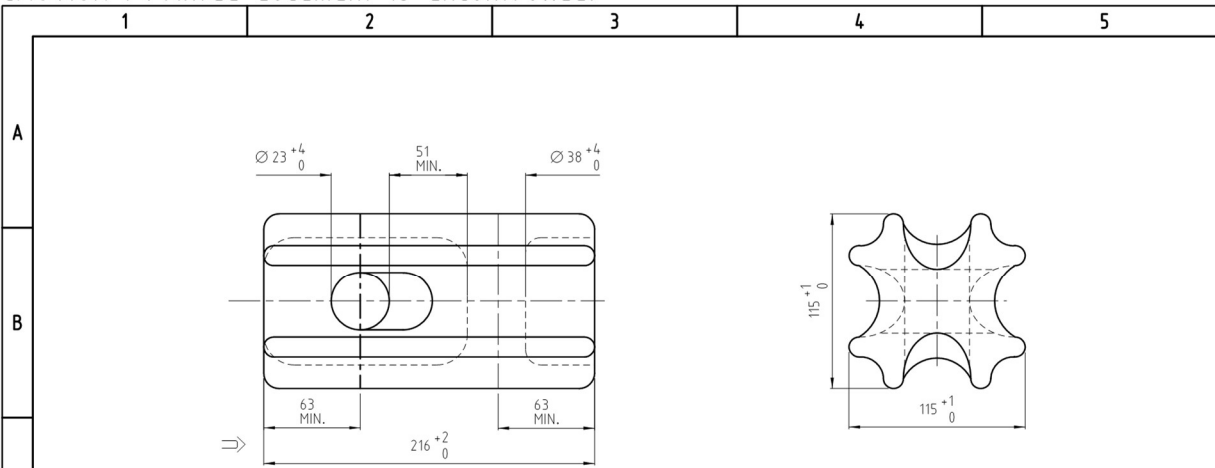
BM DWG NO D - OH1 - L009 - SD - 001

BM REV A

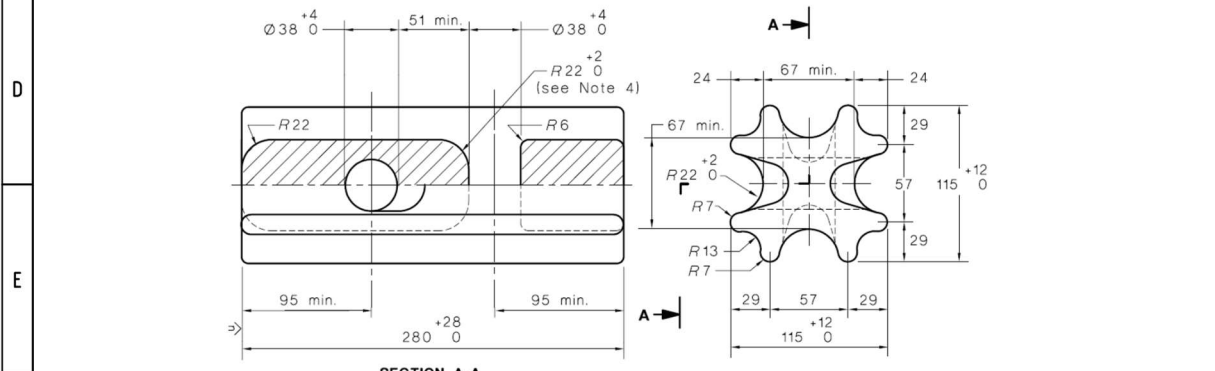
DWG STATUS CONSTRUCTION

11.7.4 Stay Insulators

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TYPE GY3
AS 3609 FIG. 4.3
S.I. No 32.04.03



SECTION A-A
TYPE GY4
AS 3609 FIG. 4.4

SINGLE INSULATOR MAX LINE VOLTAGE	GUY INSULATOR	STAY WIRE USED WITH INSULATOR	CORRESPONDING MINIMUM U.T.S OF INSULATOR (kN)
22kV	GY3	6 x 7/60.3 (U.T.S. - 180kN)	161
		6 x 7/69.9 (U.T.S. - 262kN)	133
		6 x 7/79.4 (U.T.S. - 321kN)	89
33kV	GY4		

MATERIAL: PORCELAIN TO BE IN ACCORDANCE WITH AS 3609.

STRENGTH: THE STRENGTH OF A GUY INSULATOR VARIES WITH THE FLEXIBILITY OF THE STAY WIRE WITH WHICH IT IS USED AND THEREFORE IT IS DESIRABLE TO TEST THE STRENGTH OF EACH TYPE OF GUY INSULATOR IN CONJUNCTION WITH THE STAY WIRE ADOPTED. BASED UPON TESTS, THE MINIMUM TENSILE STRENGTH OF THE INSULATORS WITH THE STAYS LISTED ARE AS SHOWN.

REFERENCE: THE INSULATORS SHOWN IN THIS DRAWING ARE OUTLINES OF DRAWINGS FROM AS 3609 AS. DRAWING NUMBERS ARE SHOWN WITH RESPECTIVE INSULATOR.

DIMENSIONS ARE IN MILLIMETRES
UNLESS OTHERWISE STATED

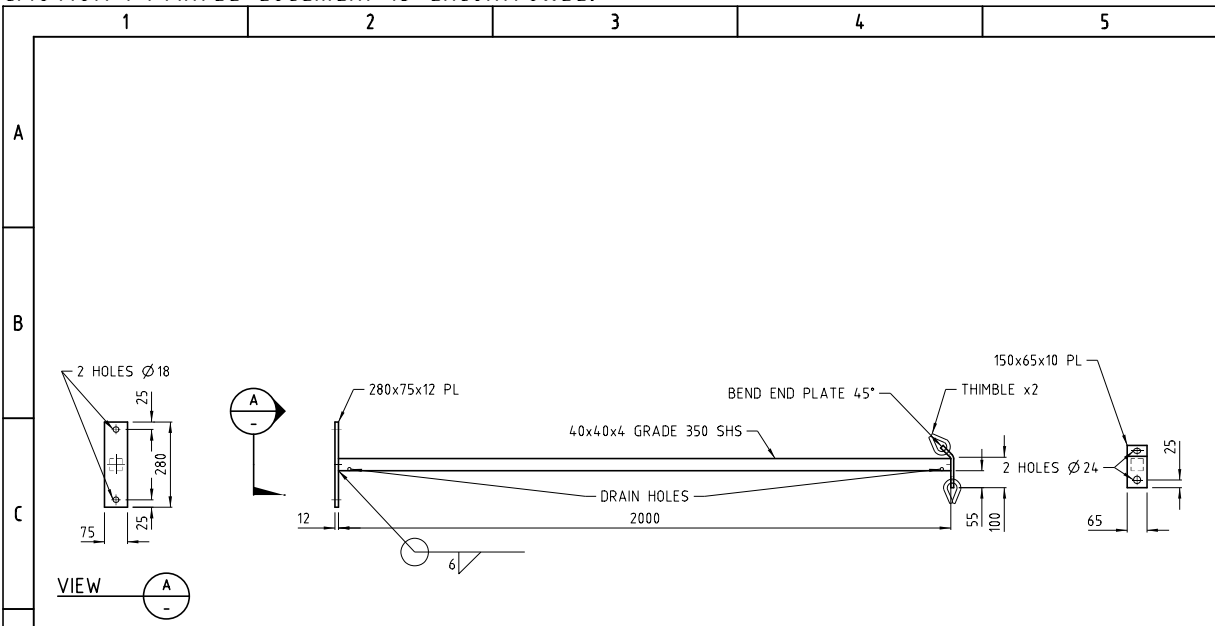
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	DRAWN: CS PRO-SOLUTIONS DESIGNED BY: ELECTRO CHECKED BY: H.WESTBURY APPROVED BY: A KETLEY DATE APPROVED: 08/FEB/19	TITLE: STAYS INSULATORS	SCALE: NTS A4
	DWG STATUS: CONSTRUCTION	D - OHC - L010 - SD - 001	REVISION: A
	ORIGINAL ISSUE		

11.7.5 Vertical Stay Strut Steelwork

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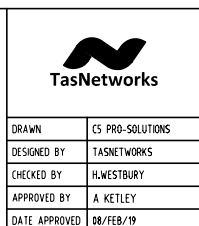


ITEM 101
 MARK 79 - STRUT VERTICAL STAY
 S.I. 32.33.79
 MATERIAL: 40 x 40 x 4 SHS GRADE 350 TO AS 1163
 75 x 12 FLAT BAR 280 LONG AND
 65 x 10 FLAT BAR 150 LONG TO AS/NZS 3679,1-300
 FINISH : HOT DIP GALVANIZE TO AS/NZS 4680
 NOTE: TO BE SUPPLIED WITH 2 GALVANISED THIMBLES
 TO AS1138 TABLE 2 (SIZE 14)
 SCALE 1:20

EMF/PDF CREATION DATE 08/FEB/19

ALTERATIONS ORIGINAL ISSUE

DESIGNED BY	TASNETWORKS
CHECKED BY	H.WESTBURY
APPROVED BY	A.KETLEY
DATE APPROVED	08/FEB/19



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TITLE STAYS VERTICAL STAY STRUT STEELWORK		SCALE AS INDICATED	A4
D - OHC - L011 - SD - 001		REVISION	A

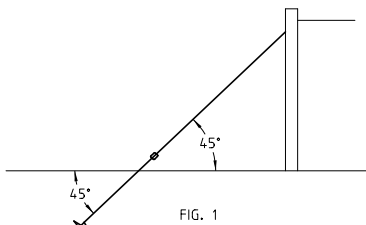
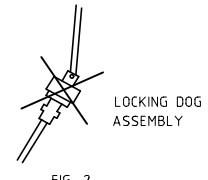

BM DWG NO D - OHC - L011 - SD - 001 BM REV A

DWG STATUS CONSTRUCTION

11.8 Installation Instructions for Screw Anchor

11.8.1 Installation Screw Anchor 1

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	1	2	3	4	5										
A	GENERAL														
B	<p>TASNETWORKS AT PRESENT INCORPORATES A SHEAR PIN TORQUE INDICATOR, THAT PHYSICALLY SHEARS A NUMBER OF PINS IN ITS POWER INSTALLED SCREW ANCHOR ASSEMBLY. BECAUSE OF THE MAINTENANCE PROBLEMS, AVAILABILITY OF PARTS AND RELIABILITY, THE SHEAR PIN PRESSURE GAUGE INDICATOR WILL BE PROGRESSIVELY REPLACED BY A SHEAR PIN PRESSURE GAUGE INDICATOR MOUNTED DIRECTLY IN FRONT OF THE BORER/ERECTOR OPERATOR.</p> <p>THIS PRESSURE GAUGE IS CONNECTED DIRECTLY TO THE HYDRAULIC LINE DRIVING THE STAFFA MOTOR. IT IS CALIBRATED FROM 1 TO 10 WHICH INDICATES THE NUMBER OF PINS SHEARED. TO SHEAR A PIN IS EQUIVALENT TO A PRESSURE OF APPROXIMATELY 1725Pa. THE PRESSURE GAUGE SHOULD BE CHECKED EVERY 12 MONTHS, BY THE MOTOR TRANSPORT DEPARTMENT, TO ENSURE ACCURACY.</p> <p>THE MAJOR ADVANTAGES OF THE PRESSURE GAUGE OVER THE TORQUE INDICATOR IS ITS ABILITY TO SHOW THE HOLDING STRENGTH OF THE ANCHOR THROUGH ITS ENTIRE PENETRATION DEPTH AS IT IS BEING INSTALLED AND ITS EASE OF APPLICATION. THE PRESSURE GAUGE ALSO INDICATES THE LIKELIHOOD OF INCREASED HOLDING STRENGTH AT A GREATER DEPTH.</p> <p>TWO METHODS OF INSTALLING SCREW ANCHORS WILL BE USED.</p> <ol style="list-style-type: none"> 1. THE SHEAR PIN TORQUE INDICATOR METHOD. 2. THE SHEAR PIN PRESSURE GAUGE METHOD. 														
C															
D	GUIDANCE FOR SCREW ANCHOR INSTALLATIONS														
E	<p>BOTH METHODS REQUIRE SIMILAR INSTALLATION TECHNIQUES:-</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  <p style="text-align: center;">FIG. 1</p> </div> <div style="width: 50%;"> <ol style="list-style-type: none"> 1. THE ANCHOR ROD TO BE INSTALLED MUST BE IN A DIRECT LINE WITH THE STAY WIRE, i.e. IF THE STAY IS AT 45° TO THE GROUND THEN THE ANCHOR MUST BE INSTALLED AT 45° .(FIG.1) 2. ALIGN THE DRIVING ASSEMBLY MAKING SURE THAT THE LOCKING DOG ASSEMBLY DOES NOT SAG THEREBY PUTTING UNDUE STRESS ON THE KELLY BAR.(FIG.2) 3. DURING THE INSTALLATION IT IS IMPORTANT THAT A CONSTANT DOWNWARD PRESSURE BE MAINTAINED. THIS PRESSURE SHOULD BE SUCH THAT FOR EACH COMPLETE TURN OF THE SCREW ANCHOR A PENETRATION OF 75mm IS OBTAINED. </div> </div>														
F															
G	 <p style="text-align: center;">FIG. 2</p>														
H															
I	<p><small>DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED</small></p>														
J	 <p>TasNetworks</p>		<p>© Tasmanian Networks PTY. LTD. trading as TasNetworks ABN: 24 167 357 299</p>		<p><small>NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM IN ANY FORM, OR TRANSMITTED BY ANY MEANS WITHOUT THE PRIOR PERMISSION OF TASNETWORKS</small></p>										
K	<table border="1"> <tr> <td>DRAWN</td> <td>CS PRO-SOLUTIONS</td> </tr> <tr> <td>DESIGNED BY</td> <td>ELECTRO</td> </tr> <tr> <td>CHECKED BY</td> <td>H.WESTBURY</td> </tr> <tr> <td>APPROVED BY</td> <td>A.KETLEY</td> </tr> <tr> <td>DATE APPROVED</td> <td>08/MAR/19</td> </tr> </table>		DRAWN	CS PRO-SOLUTIONS	DESIGNED BY	ELECTRO	CHECKED BY	H.WESTBURY	APPROVED BY	A.KETLEY	DATE APPROVED	08/MAR/19	<p>TITLE INSTALLATION INSTRUCTIONS FOR POWER INSTALLED SCREW ANCHOR</p>		<p>SCALE NTS</p>
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L	<p>D - OHC - L012 - SD - 001</p>			<p>REVISION A</p>											

EMF/PDF CREATION DATE 08/MAR/19

ALTERATIONS ORIGINAL ISSUE

BM DWG NO D - OHC - L012 - SD - 001 BM REV A

DWG STATUS CONSTRUCTION

11.8.2 Installation Screw Anchor 2

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- 4. THE STAFFA MOTOR SHOULD BE TURNING OVER AT JUST ABOVE IDLE SPEED, DO NOT OVER REV THE MOTOR AS THIS WILL CAUSE THE ANCHOR TO "CHURN" THE SOIL RATHER THAN PENETRATING IT THEREBY MAKING ANCHOR INSTALLATION SUSCEPTIBLE TO FAILURE. IT IS CRITICAL FOR THE SUCCESS OF THE INSTALLATION THAT THE PENETRATION RATE OF 75mm PER REVOLUTION IS MAINTAINED ESPECIALLY FOR THE LAST 600mm.
- 5. THE ANCHOR ROD IS TO BE INSTALLED TO A MINIMUM DEPTH OF 1700mm WITH A MINIMUM HEIGHT OF THE THIMBLE EYE NUT ABOVE GROUND LEVEL OF 100mm.(FIG.3)

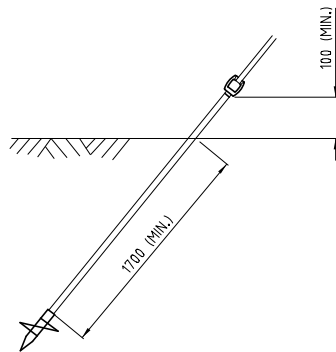


FIG. 3

- 6. IF ADEQUATE HOLDING STRENGTH CAN NOT BE ACHIEVED WITH THE STANDARD 200mm SINGLE HELIX ANCHOR AND ONE ANCHOR ROD, SEVERAL OPTIONS ARE AVAILABLE.
 - (a) INCREASE THE PENETRATION DEPTH BY ADDING AN EXTENSION ROD. THIS METHOD SHOULD ONLY BE CONSIDERED IF THE SUBSTRATA IS THOUGHT TO BE DENSER THAN THE SURFACE SOIL.
 - (b) USE THE 300mm SINGLE HELIX ANCHOR WHERE THE SUBSOIL HAS POOR HOLDING CAPACITY DOWN TO THE 3 METRE LEVEL. AN INCREASE OF APPROXIMATELY 20KN IN HOLDING STRENGTH CAN BE EXPECTED COMPARED WITH A 200mm SINGLE HELIX ANCHOR IN THE SAME SOIL. THE 300mm SINGLE HELIX ANCHOR INSTALLED IN POOR SOIL WILL NORMALLY PROVIDE ADEQUATE HOLDING STRENGTH FOR STANDARD 19/2.00 GROUND STAY.
- 7. WHEN THE INSTALLATION TORQUE EXCEEDS 10 PINS A CONCRETE ANCHOR BLOCK STAY SYSTEM SHOULD BE INSTALLED AS IT WILL BE EXTREMELY DOUBTFUL IF A POWER INSTALLED SCREW ANCHOR CAN BE INSTALLED TO THE REQUIRED MINIMUM DEPTH.

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TITLE
INSTALLATION INSTRUCTIONS FOR
POWER INSTALLED SCREW ANCHOR

SCALE
NTS

A4

REVISION
A

DRAWN	CS PRO-SOLUTIONS
DESIGNED BY	ELECTRO
CHECKED BY	H.WESTBURY
APPROVED BY	A KETLEY
DATE APPROVED	08/MAR/19

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DWG STATUS CONSTRUCTION

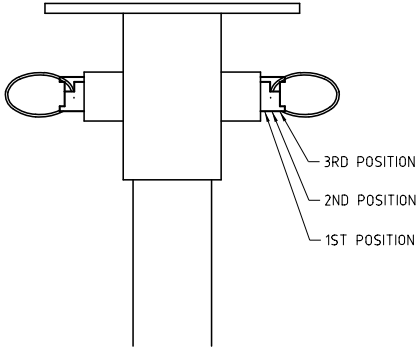
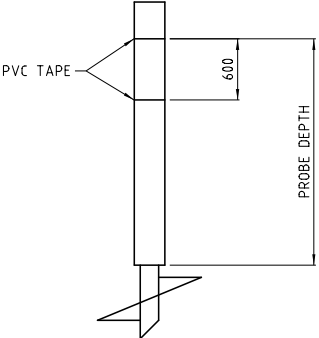

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11.8.3 Installation Screw Anchor 3

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	1	2	3	4	5										
A	INSTALLATION PROCEDURE														
B			<ol style="list-style-type: none"> 1. LOCATE THE KELLY BAR ADAPTER AND LOCKING DOG ASSEMBLY ON THE KELLY BAR AND INSERT RETAINING PIN. 2. PULL THE RINGS ON THE LOCKING DOGS OUT TO THE THIRD POSITION. INSERT DRIVE END WRENCH INTO THE LOCKING DOGS AND RELEASE LOCKING DOGS TO THE SECOND POSITION.(FIG.4) 3. SCREW ANCHOR ROD INTO ANCHOR HELIX,TIGHTEN SECURELY. 4. FIT ANCHOR ASSEMBLY INTO THE DRIVING WRENCH. RELEASE LOCKING DOGS TO FIRST POSITION, ENSURE THAT THE ANCHOR ASSEMBLY IS FULLY ENGAGED. 5. COMMENCE THE INSTALLATION. AS THE ANCHOR APPROACHES THE LAST 600mm OF PENETRATION, NOTE THE PRESSURE/TORQUE GAUGE READING, A STEADY PENETRATION RATE OF 75mm PER REVOLUTION MUST BE MAINTAINED WITHOUT SLIPPAGE. IT IS IMPORTANT THAT THE TORQUE REACHES THE VALUE NOMINATED ON THE WORKS PLAN, IF SLIPPAGE OCCURS, CONSIDER USING <ul style="list-style-type: none"> - A LARGER DIAMETER SCREW - AN EXTENSION ROD TO REACH DOWN TO FIRMER SOIL LAYERS - USE OF A BLOCK ANCHOR 												
C	FIG. 4														
D	TEST INSTALLATION														
E	<p>IF THERE IS DOUBT AT THE BEGINNING OF THE INSTALLATION AS TO THE HOLDING STRENGTH OF THE SOIL THEN A TEST INSTALLATION MAY BE REQUIRED. USING A 200mm SINGLE HELIX INSTALL AN ANCHOR VERTICALLY, THE LOCATION OF THIS ANCHOR IS TO BE ONE METRE TO THE SIDE OF THE STAY INSTALLATION. THE DRIVE END WRENCH SHOULD BE MARKED WITH PVC TAPE AT A DISTANCE EQUIVALENT TO THE PROBE DEPTH, (REFER TO THE TABLE BELOW) AND AT A DISTANCE 600mm LESS THAN THE PROBE DEPTH, THIS IS TO ENABLE THE OPERATOR TO TAKE READINGS OVER THE LAST 600mm OF PENETRATION. (FIG.5)</p>														
F			<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>TYPE OF STAY</th> <th>VERTICAL DEPTH OF PROBE mm</th> </tr> </thead> <tbody> <tr> <td>45°</td> <td>1300</td> </tr> <tr> <td>45° WITH EXTENSION</td> <td>2100</td> </tr> <tr> <td>60°</td> <td>1600</td> </tr> <tr> <td>60° WITH EXTENSION</td> <td>2500</td> </tr> </tbody> </table>			TYPE OF STAY	VERTICAL DEPTH OF PROBE mm	45°	1300	45° WITH EXTENSION	2100	60°	1600	60° WITH EXTENSION	2500
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