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# SECTION 8 - COMMUNICATIONS

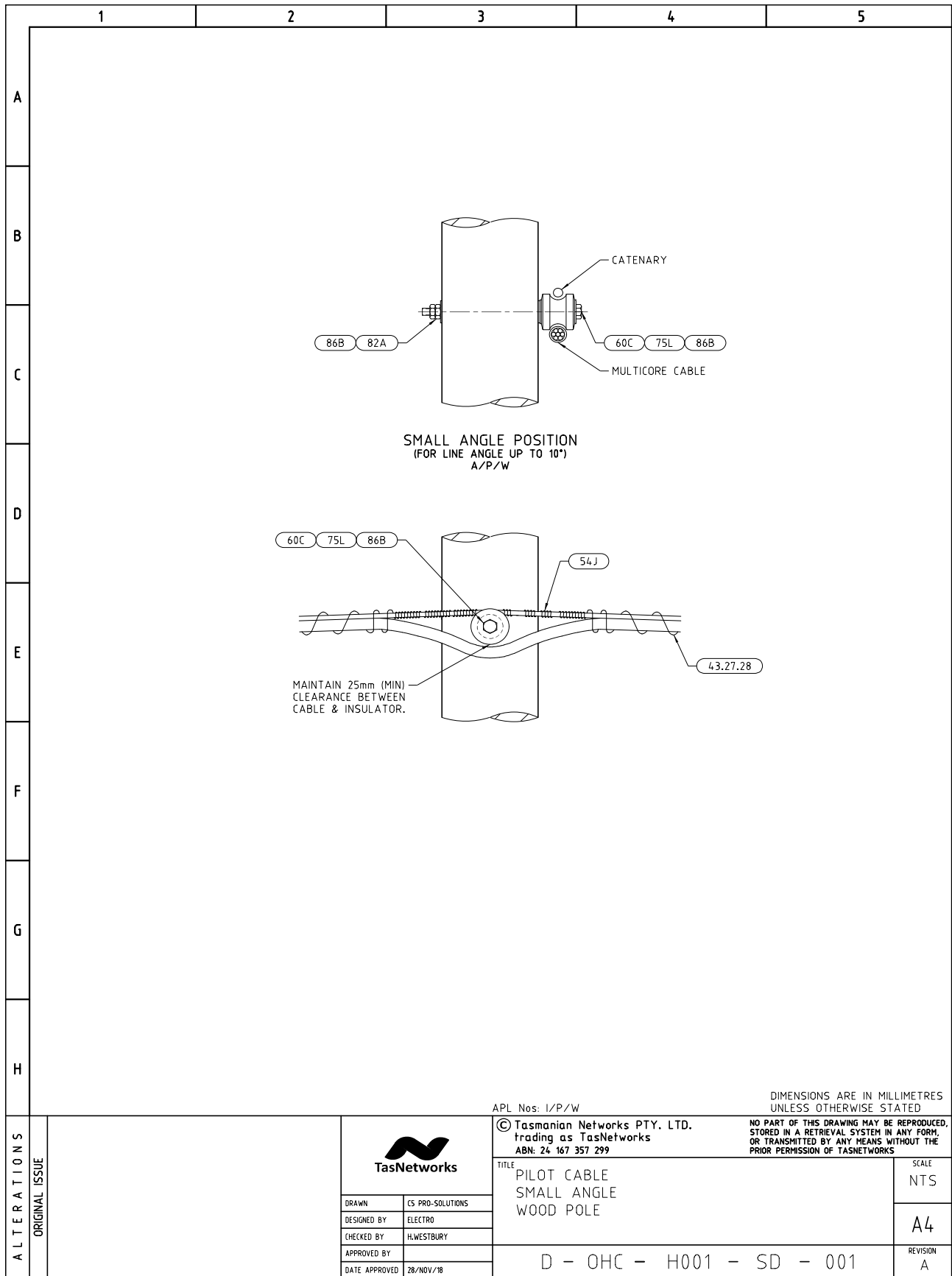
VERSION 2.0




## SECTION 8 – COMMUNICATIONS

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### 8.1 Pilot Cable – Intermediate – Wood Pole

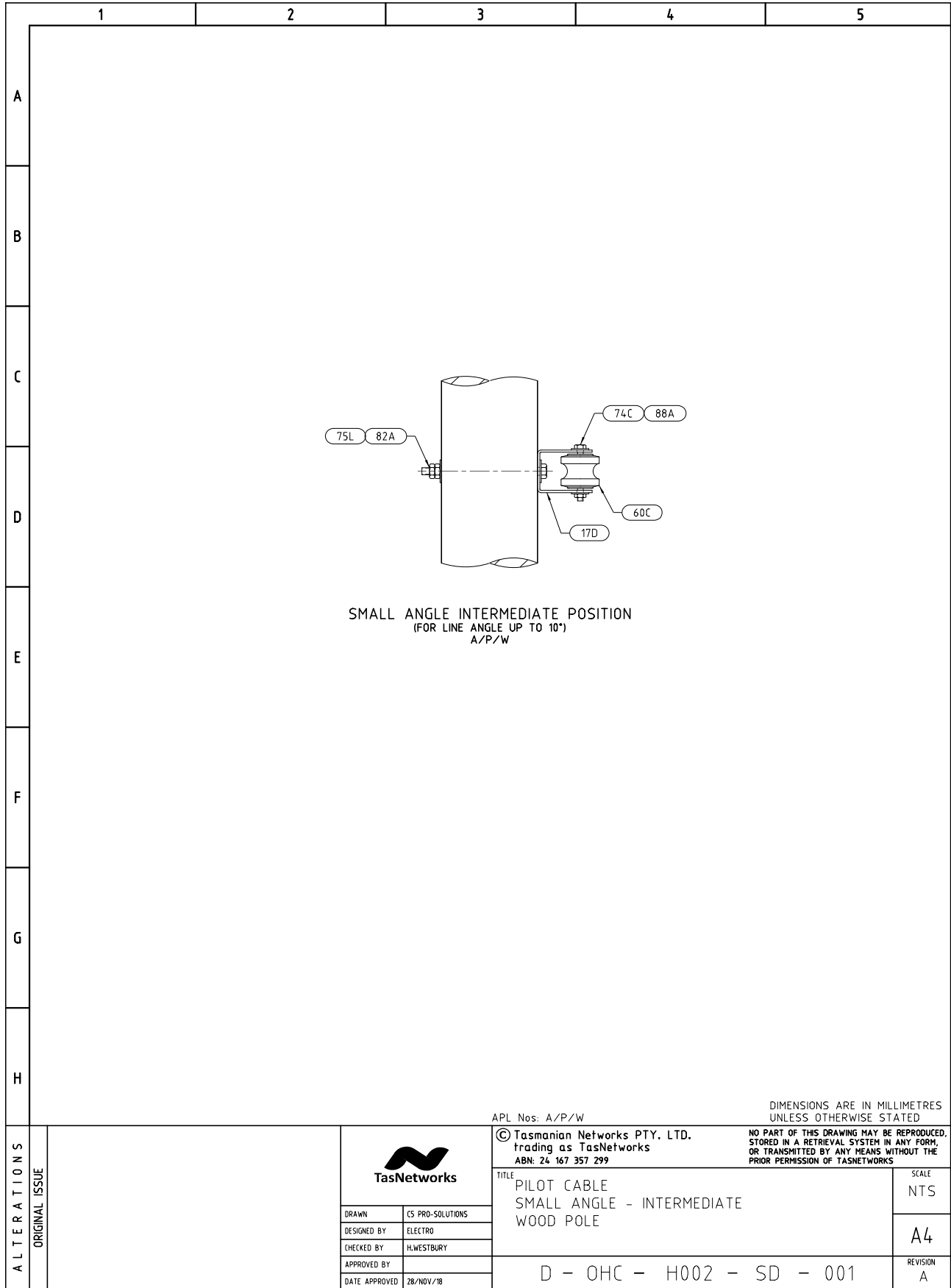


Pilot Cable – Intermediate – Wood Pole – Materials List


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				TITLE PILOT CABLE SMALL ANGLE WOOD POLE																															
				SCALE NTS																															
				REVISION A																															
				D - OHC - H001 - SD - 002																															

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## 8.2 Pilot Cable – Small Angle – Wood Pole

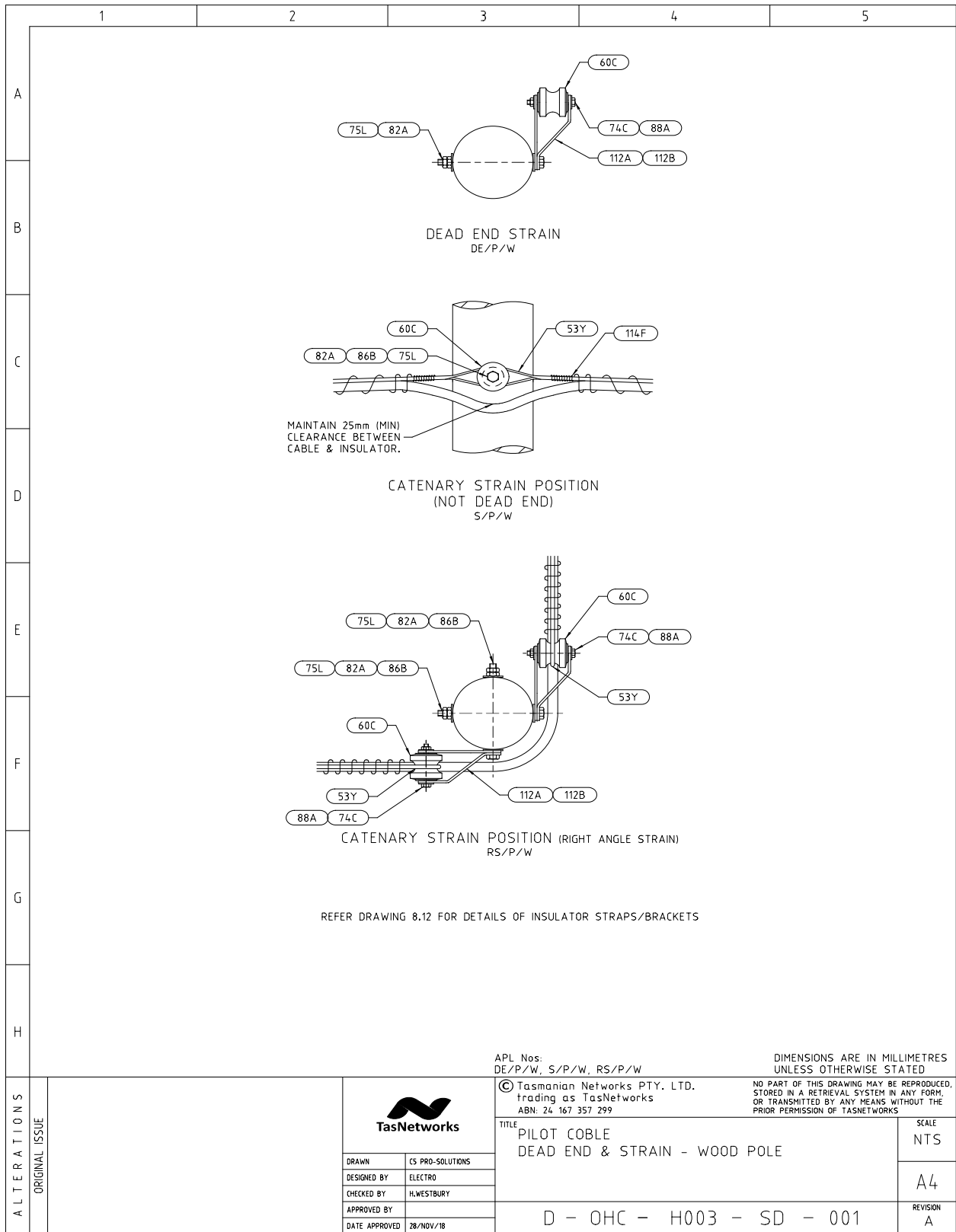


Pilot Cable – Small Angle – Wood Pole – Materials List

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A	<table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">APL</th> <th style="width: 10%;">QTY</th> <th style="width: 10%;">ITEM</th> <th style="width: 10%;">STOCK CODE</th> <th style="width: 50%;">DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>A/P/W</td> <td>1</td> <td>60C</td> <td>321117</td> <td>SHLV REEL INSULATOR</td> </tr> <tr> <td></td> <td>1</td> <td>75L</td> <td>32286</td> <td>M16x300 BOLT</td> </tr> <tr> <td></td> <td>1</td> <td>86B</td> <td>65158</td> <td>M16 ELS WASHER</td> </tr> <tr> <td></td> <td>2</td> <td>82A</td> <td>40441</td> <td>M16 NUT</td> </tr> <tr> <td></td> <td>1</td> <td>17D</td> <td>323357</td> <td>U.BRACKET 40x5x110</td> </tr> <tr> <td></td> <td>1</td> <td>54J</td> <td>146540</td> <td>CONDUCTOR SIDE TIE, HELICAL 3/2.75</td> </tr> </tbody> </table>					APL	QTY	ITEM	STOCK CODE	DESCRIPTION	A/P/W	1	60C	321117	SHLV REEL INSULATOR		1	75L	32286	M16x300 BOLT		1	86B	65158	M16 ELS WASHER		2	82A	40441	M16 NUT		1	17D	323357	U.BRACKET 40x5x110		1	54J	146540	CONDUCTOR SIDE TIE, HELICAL 3/2.75
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		DESIGNED BY ELECTRO																																						
		CHECKED BY H.WESTBURY																																						
		APPROVED BY _____																																						
		DATE APPROVED 28/NOV/18																																						

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### 8.3 Pilot Cable – Dead End & Strain – Wood Pole



APL Nos:  
DE/P/W, S/P/W, RS/P/W

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CHECKED BY	H.WESTBURY
APPROVED BY	
DATE APPROVED	28/NOV/18

TITLE  
PILOT COBLE  
DEAD END & STRAIN - WOOD POLE

SCALE  
NTS

D - OHC - H003 - SD - 001

A4

REVISION  
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Pilot Cable – Dead End & Strain – Wood Pole – Materials List

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ALTERATIONS	ORIGINAL ISSUE			© Tasmanian Networks PTY. LTD. trading as TasNetworks ABN: 24 167 357 299	
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		DRAWN CS PRD-SOLUTIONS DESIGNED BY ELECTRO CHECKED BY RLWESTBURY APPROVED BY DATE APPROVED 28/NOV/18		SCALE NTS A4 REVISION A	
		D - OHC - H003 - SD - 002			


APL	QTY	ITEM	STOCK CODE	DESCRIPTION
DE/P/W	1	75L	32286	M16x300 BOLT
	2	82A	40441	M16 NUT
	1	86B	65158	M16 WASHER ELS
	1	60C	321117	SHLV2 LV REEL INSULATOR
	1	112A		SHACKLE STRAP
	1	112B		SHACKLE STRAP
	1	74C	32221	M12x100 BOLT
	1	88A	66412	M12 WASHER TOWER
	1			M12 NUT
S/P/W	1	60C	321117	SHLV2 LV REEL INSULATOR
	1	75L	32286	M16x300 BOLT
	1	86B	65158	M16 WASHER ELS
	1	82A	40441	M16 NUT
	2	53Y	148506	CONDUCTOR HELICAL TERMINATION STEEL 7/2.75
RS/P/W	2	75L	32286	M16x300 BOLT
	4	82A	40441	M16 NUT
	2	86B	65158	M16 WASHER ELS
	2	60C	321117	SHLV2 LV REEL INSULATOR
	2	112A		SHACKLE STRAP
	2	112B		SHACKLE STRAP
	2	74C	32221	M12x100 BOLT
	2	88A	66412	M12 WASHER TOWER
2			M12 NUT	

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### 8.4 Pilot Cable – Junction Box & Notes – Wood Pole

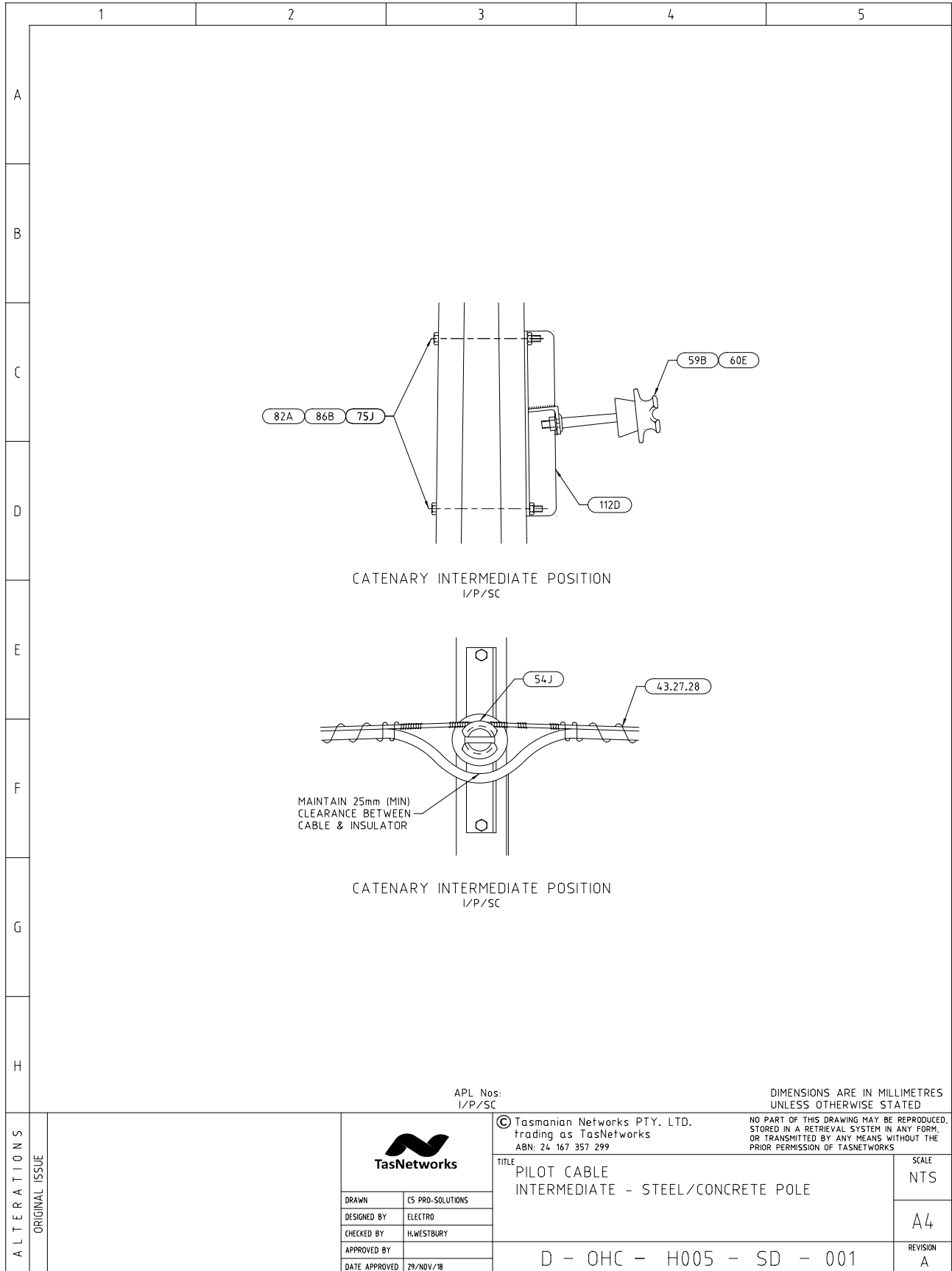
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A	<p>NOTES:</p> <ol style="list-style-type: none"> <li>1. PILOT CABLE TO BE SECTIONALISED AT 1000m INTERVALS IN A JUNCTION BOX ATTACHED TO POLE. CABLE TO BE STRAIGHT THROUGH JOINTED BETWEEN JUNCTION BOXES. JOINTS TO BE AT POLE POSITIONS WHERE POSSIBLE.</li> <li>2. CATENARY WIRE (7/2.75 SC/GZ) TO BE EARTHED AT APPROXIMATELY 500m INTERVALS WITH 19/1.53 (PVC INSULATED) CABLE. EARTH WIRE TO BE DISCONTINUOUS CLOSE TO SUBSTATION. EARTH WIRES TO BE PROTECTED WITH PVC CONDUIT FOR 2m FROM GROUND AT POLE BASE. CATENARY EARTHS TO BE AT LEAST 0.6m FROM ALL OTHER EARTHING SYSTEMS ON POLES. INSULATED WIRE TO BE RUN GROUND TO ELECTRODE LOCATED AT LEAST 2m FROM HV/SC POLE ALONG LINE FOOTING RESISTANCE TO BE LESS THAN OHMS.</li> <li>3. PILOT SCREEN TO BE DISCONTINUOUS AT MID-POINT OF RUN. SCREEN TO BE EARTHED AT SUBSTATION ENDS ONLY. MID POINT INSULATION TO WITHSTAND MIN 5kV FOR 5 SECS. SCREEN EARTH TO BE AT LEAST 0.6m FROM ALL OTHER EARTHING SYSTEMS ON POLE AND TO HAVE FOOTING RESISTANCE LESS THAN 30 OHMS. REMOTE EARTH AS FOR CATENARY EARTH ON HV/SC POLE.</li> <li>4. AT ALL TIMES CATENARY AND WRAPPING WIRES AS WELL AS PILOT CABLE ARE TO BE KEPT AS FAR AS POSSIBLE FROM POLE STEEL.</li> <li>5. REFER DRAWINGS 8.10 AND 8.11 FOR DETAILS OF JUNCTION BOX AND STEELWORK.</li> </ol>				
B					
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A	<p style="text-align: center;">JUNCTION BOX POSITION (INTERMEDIATE) JB/P/W</p>				
B	<p>APL Nos: JB/P/W</p> <p style="text-align: right;">DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED</p>				
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D				<p>TITLE CATENARY ARRANGEMENTS PILOT CABLE JUNCTION BOX &amp; NOTES - WOOD POLE</p>	
E	DRAWN	CS PRO-SOLUTIONS		SCALE NTS	
F	DESIGNED BY	ELECTRO		A4	
G	CHECKED BY	H.WESTBURY		REVISION A	
H	APPROVED BY			D - OHC - H004 - SD - 001	
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Pilot Cable – Junction Box & Notes – Wood Pole – Materials List


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### 8.5 Pilot Cable – Intermediate – Steel / Concrete Pole

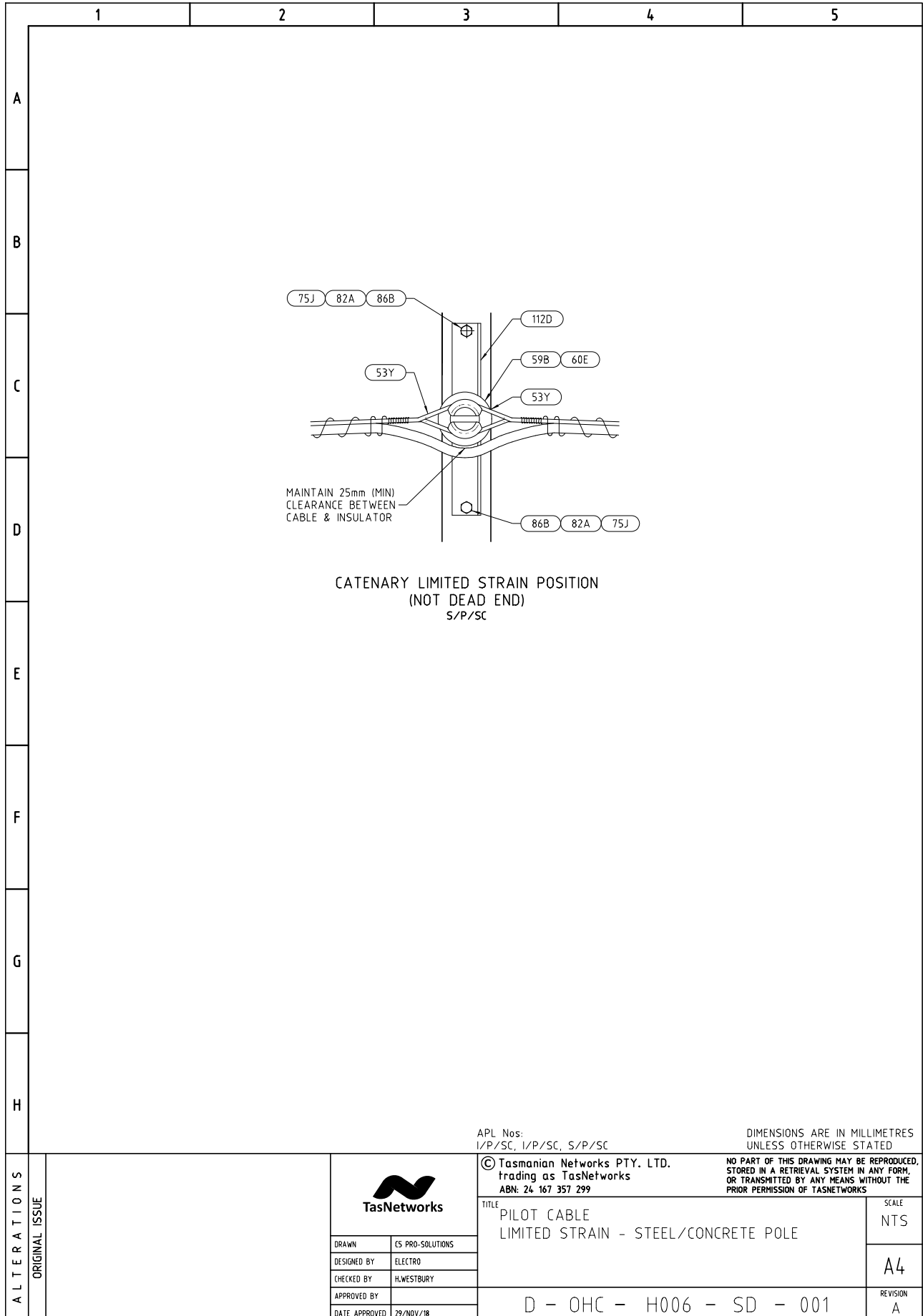


Pilot Cable – Intermediate – Steel / Concrete Pole – Materials List


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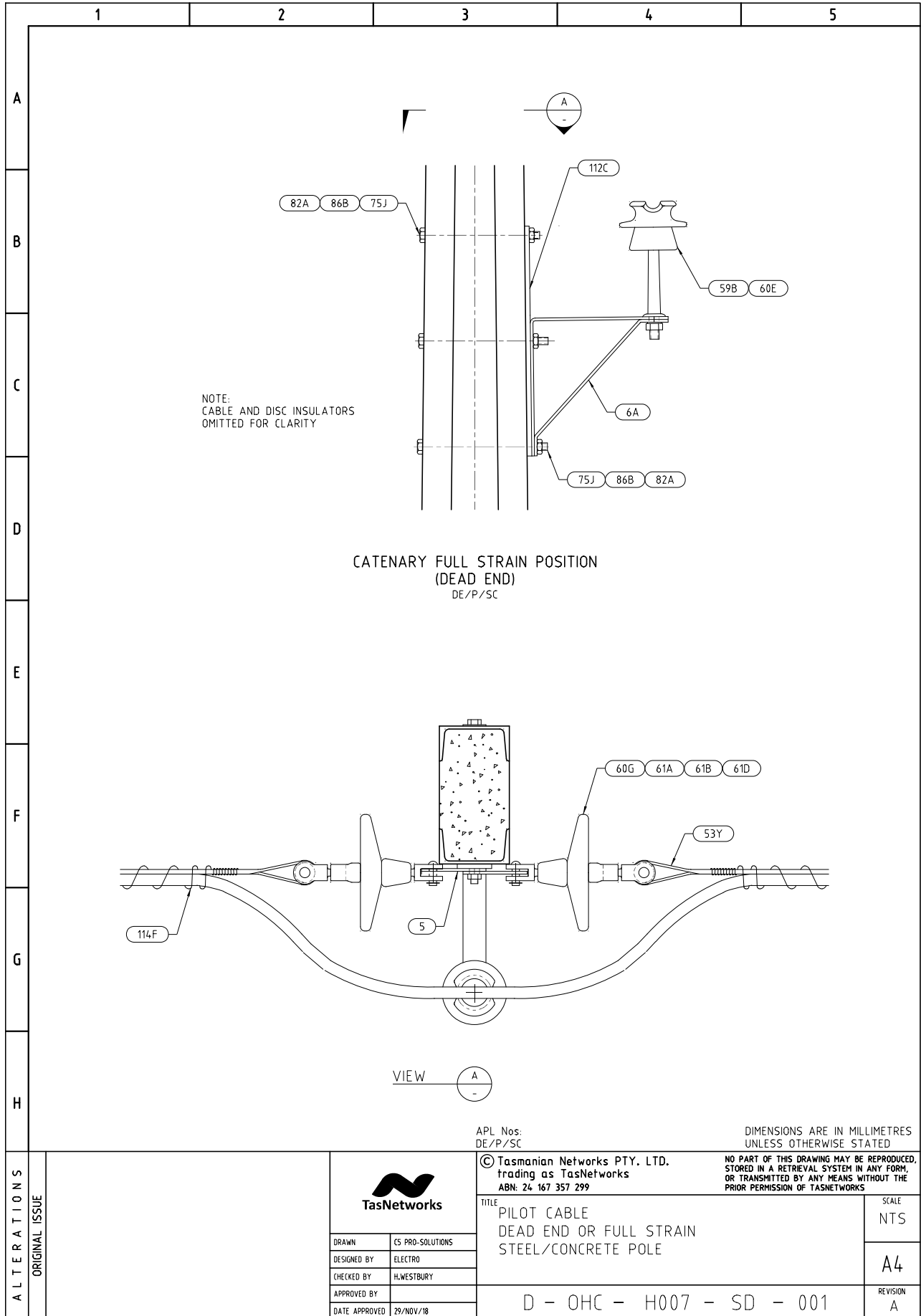
### 8.6 Pilot Cable – Limited Strain – Steel / Concrete Pole



Pilot Cable – Limited Strain – Steel / Concrete Pole – Materials List


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			DRAWN CS PRO-SOLUTIONS DESIGNED BY ELECTRO CHECKED BY H.WESTBURY APPROVED BY DATE APPROVED 29/NOV/18		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 PILOT CABLE LIMITED STRAIN - STEEL CONCRETE POLE		SCALE NTS																																								
			D - OHC - H006 - SD - 002		REVISION A																																								

### 8.7 Pilot Cable – Dead End & Full Strain –Steel / Concrete Pole

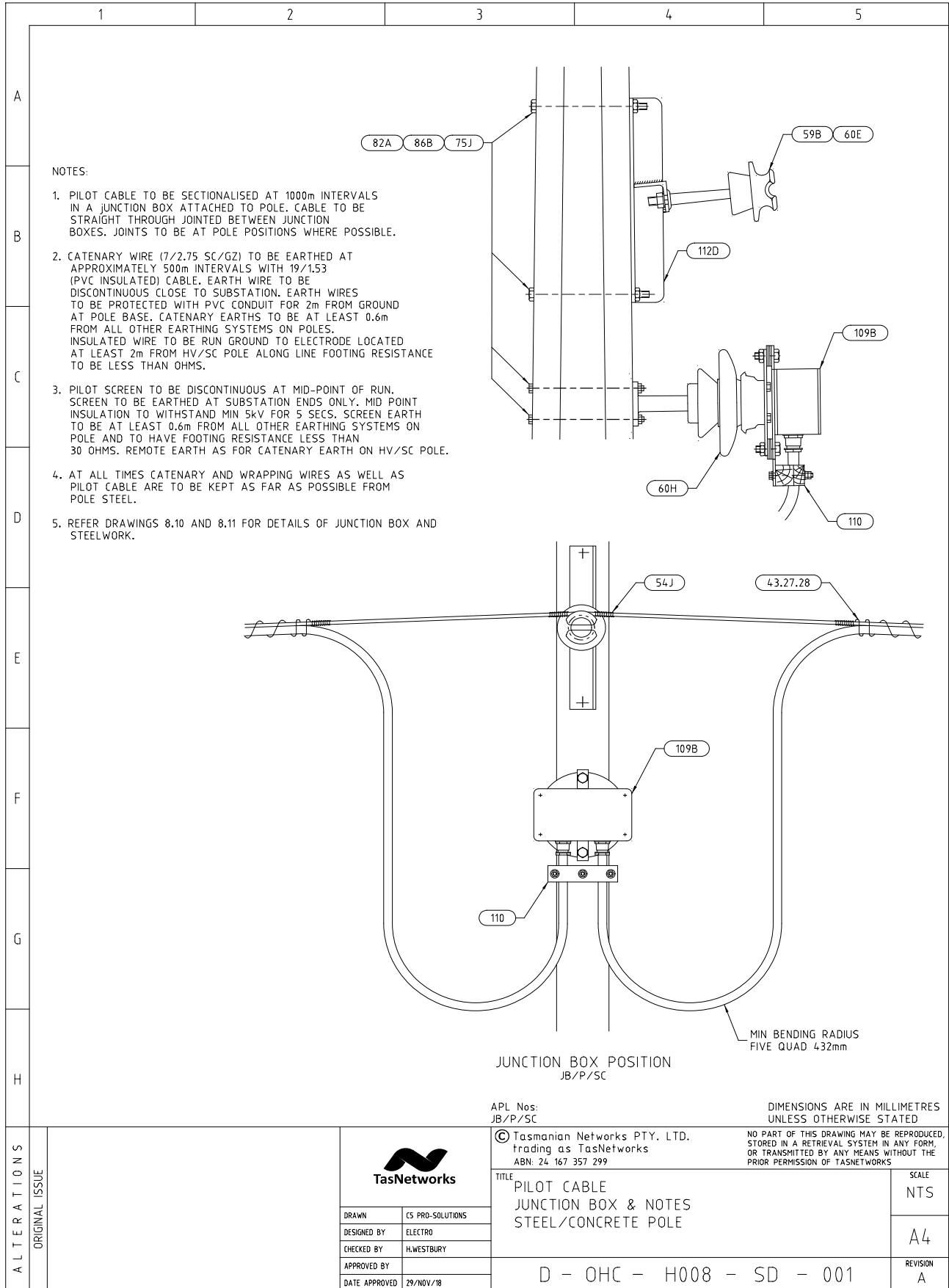





Pilot Cable – Dead End & Full Strain – Steel / Concrete Pole – Materials List

	1	2	3	4	5	
A						
B						
C						
D						
E						
F						
G						
H						
ALTERATIONS ORIGINAL ISSUE	APL		QTY	ITEM	STOCK CODE	DESCRIPTION
	DE/P/SC		1	112C		INSULATOR BRACKET FOR STEEL/CONCRETE POLE
			1	6A	323315	INSULATOR BRACKET 50x6x300
			3	75J	32284	M16x260 BOLT
			3	82A	40441	M16 NUT
			3	86B	65158	M16 WASHER ELS
			2	53Y	148506	CONDUCTOR HELICAL TERMINATION STEEL 7/2.75 SC/GZ
			1	5	323312	SPACING PLATE 50x6x140
			2	60G	321260	INSULATOR, DISC TYPE (PORCELAIN)
			2	61A	322056	BALL CLEVIS AND PIN
		2	61B	322386	SOCKET TERMINATION	
		2	61D	322090	KINK PIN	
		1	59B		INSULATOR PIN STALK	
		1	60E	320531	TYPE ALP 22kV PORCELAIN INSULATOR	
DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED						
					© 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: H.WESTBURY APPROVED BY: DATE APPROVED: 29/NOV/18		TITLE PILOT CABLE DEAD END OR FULL STRAIN STEEL/CONCRETE POLE	SCALE NTS  A4  REVISION A
			D - OHC - H007 - SD - 002			

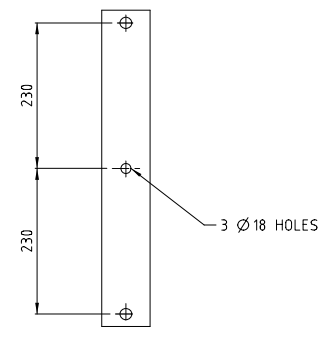
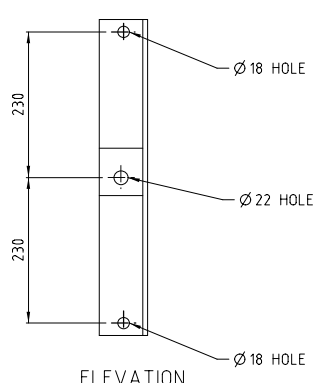

### 8.8 Pilot Cable – Junction Box & Notes – Steel / Concrete



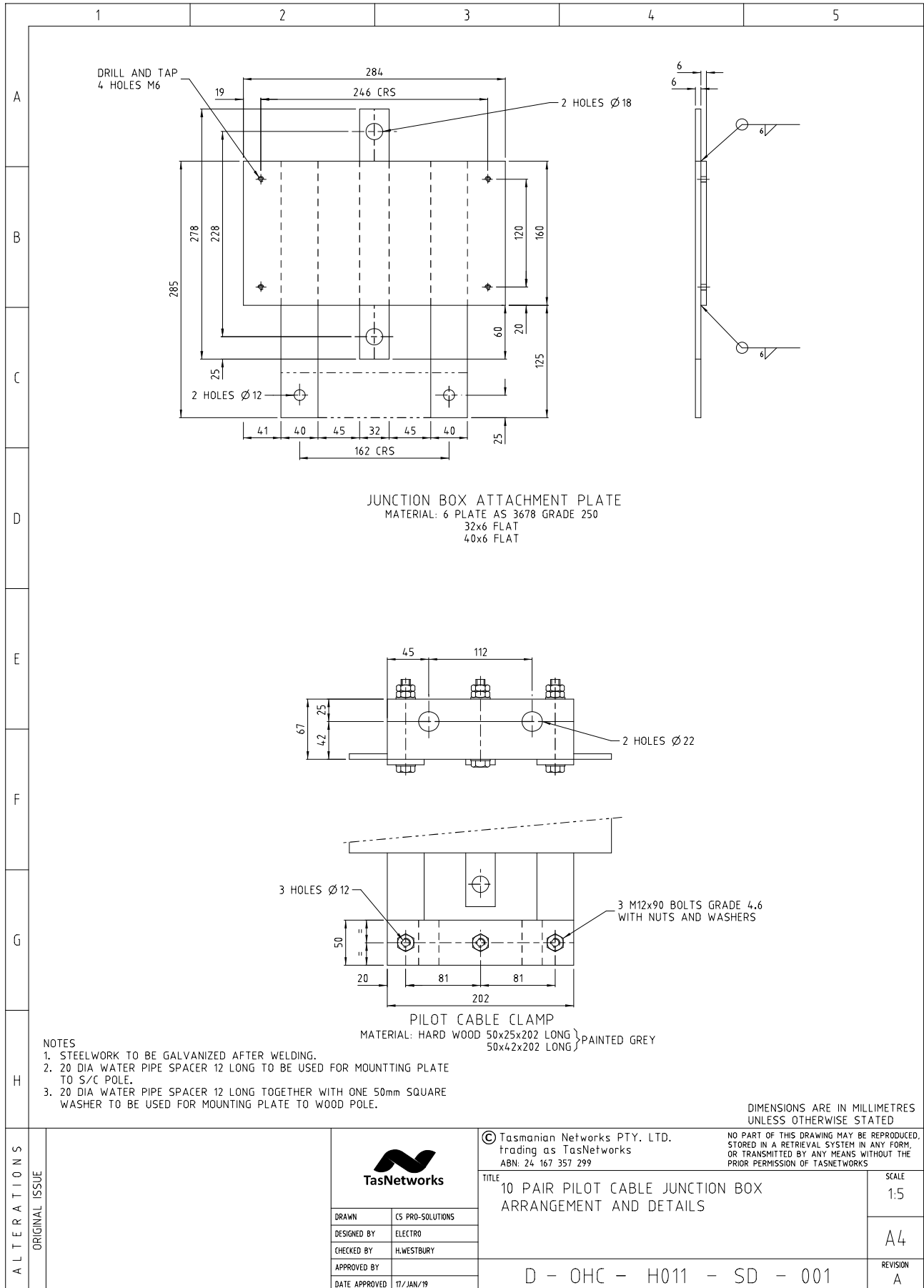
Pilot Cable – Junction Box & Notes – Steel / Concrete Pole – Materials List

	1	2	3	4	5																																														
A																																																			
B																																																			
C	<table border="1"> <thead> <tr> <th>APL</th> <th>QTY</th> <th>ITEM</th> <th>STOCK CODE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td rowspan="10">JB/P/SC</td> <td>4</td> <td>75J</td> <td>32284</td> <td>M16x260 BOLT</td> </tr> <tr> <td>4</td> <td>82A</td> <td>40441</td> <td>M16 NUT</td> </tr> <tr> <td>4</td> <td>86B</td> <td>65158</td> <td>M16 WASHER ELS</td> </tr> <tr> <td>1</td> <td>59B</td> <td></td> <td>INSULATOR PIN STALK</td> </tr> <tr> <td>1</td> <td>60E</td> <td>320531</td> <td>TYPE ALP 22kv PORCELAIN INSULATOR</td> </tr> <tr> <td>1</td> <td>54J</td> <td>146540</td> <td>CONDUCTOR SIDE TIE, HELICAL, 3/2.75</td> </tr> <tr> <td>1</td> <td>112D</td> <td></td> <td>INSULATOR BRACKET FOR S/C POLE</td> </tr> <tr> <td>1</td> <td>60H</td> <td>320735</td> <td>STAND OFF INSULATOR 22kv</td> </tr> <tr> <td>1</td> <td>109B</td> <td></td> <td>PC JUNCTION BOX</td> </tr> <tr> <td>1</td> <td>110</td> <td></td> <td>PC JUNCTION BOX MOUNTING BRACKET</td> </tr> </tbody> </table>					APL	QTY	ITEM	STOCK CODE	DESCRIPTION	JB/P/SC	4	75J	32284	M16x260 BOLT	4	82A	40441	M16 NUT	4	86B	65158	M16 WASHER ELS	1	59B		INSULATOR PIN STALK	1	60E	320531	TYPE ALP 22kv PORCELAIN INSULATOR	1	54J	146540	CONDUCTOR SIDE TIE, HELICAL, 3/2.75	1	112D		INSULATOR BRACKET FOR S/C POLE	1	60H	320735	STAND OFF INSULATOR 22kv	1	109B		PC JUNCTION BOX	1	110		PC JUNCTION BOX MOUNTING BRACKET
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H																																																			
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 PILOT CABLE JUNCTION BOX - STEEL/CONCRETE POLE		SCALE NTS																																													
				D - OHC - H008 - SD - 002		REVISION A																																													
		DRAWN CS PRO-SOLUTIONS	DESIGNED BY ELECTRO	CHECKED BY H.WESTBURY	APPROVED BY _____																																														
		DATE APPROVED 29/NOV/18																																																	

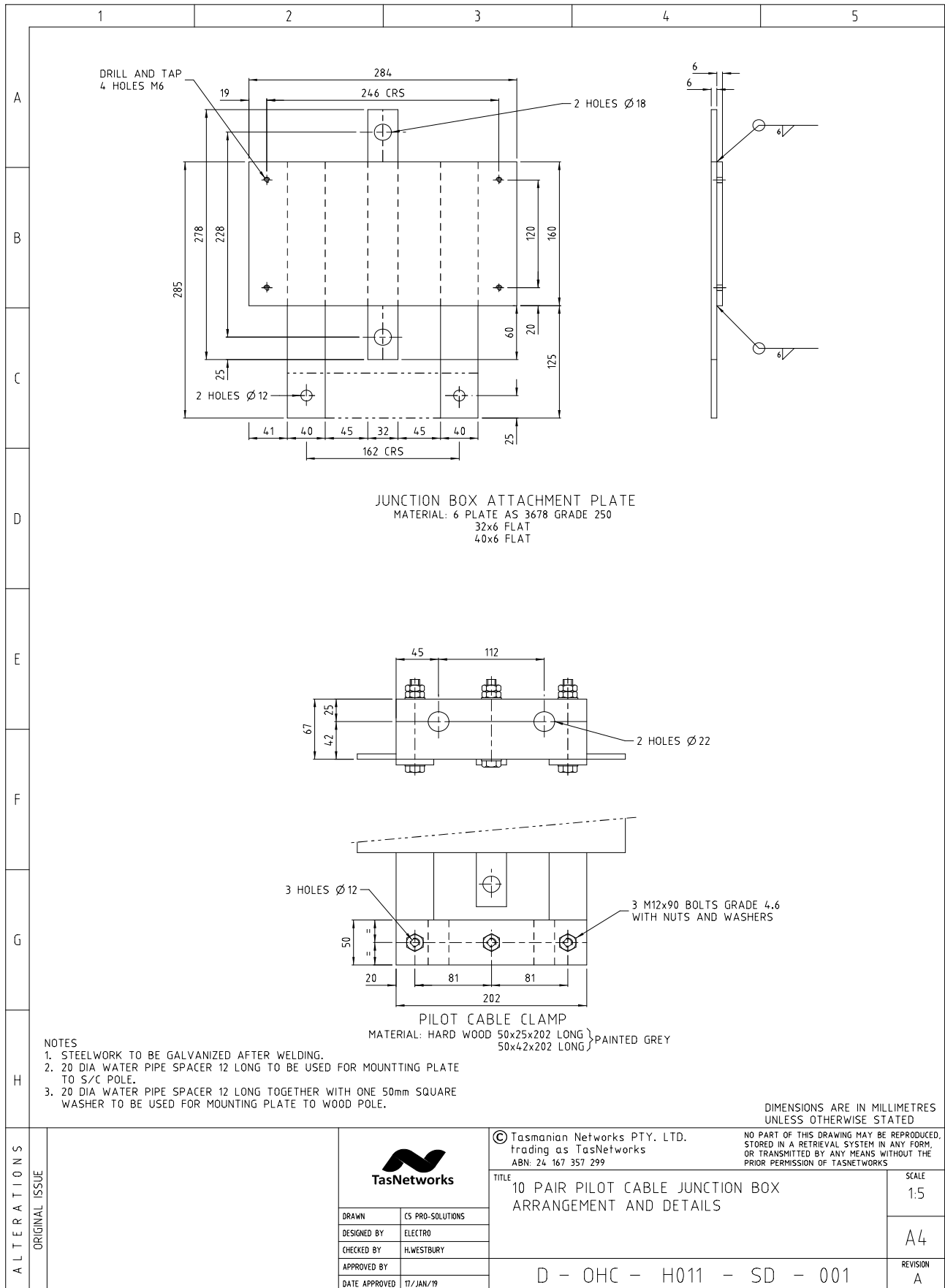
### 8.9 Pilot Cable Support Steelwork for Steel Poles

	1	2	3	4	5		
A							
B							
C							
D	<p>ITEM 112C - POLE BRACKET</p> <p>MATERIAL: M.S. FLAT 75 x 10 TO AS/NZS 3679.1</p> <p>STUD &amp; NUT M16 THREAD TO AS 1111</p> <p>FINISH: HOT DIP GALVANISED TO AS/NZS 4680</p>			OBSOLETE			
E							
F							
G							
H	<p>ITEM 112D - CATENARY INSULATOR BRACKET</p> <p>MATERIAL: 75 x 75 x 8 M.S. ANGLE TO AS/NZS 3679.1</p> <p>FINISH: HOT DIP GALVANISED TO AS/NZS 4680</p>			OBSOLETE			
ALTERNATIONS			© 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		
ORIGINAL ISSUE			TITLE PILOT CABLE SUPPORT STEELWORK FOR S/C POLES		SCALE NTS		
			DRAWN	CS PRO-SOLUTIONS	D - OHC - H009 - SD - 001		SCALE A4
			DESIGNED BY	ELECTRO			REVISION
			CHECKED BY	HLWESTBURY			A
	APPROVED BY		A				
	DATE APPROVED	17/JAN/19					

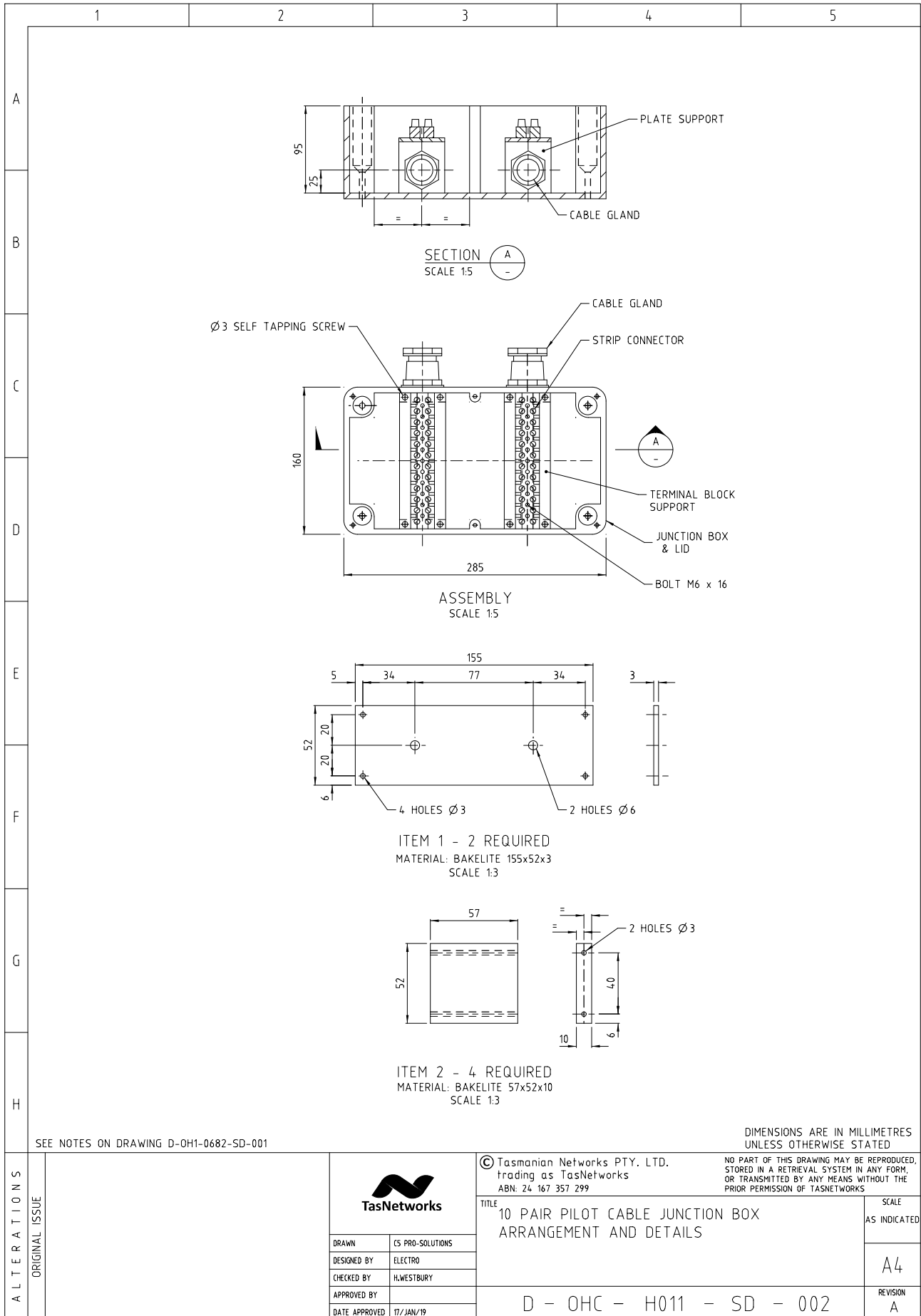
### 8.10 Junction Box Mounting Plate Steelwork Details



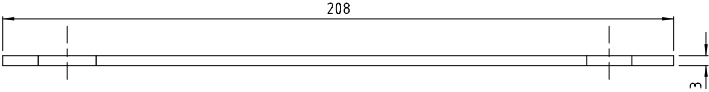
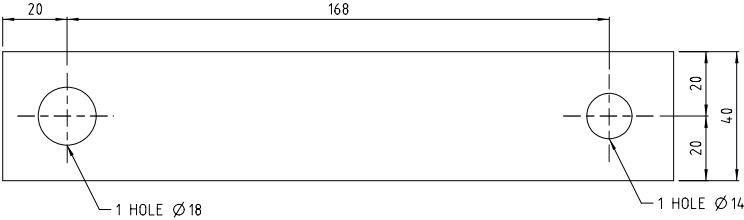
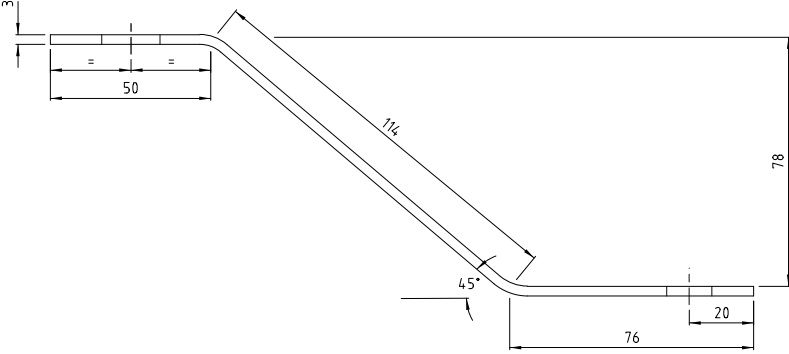
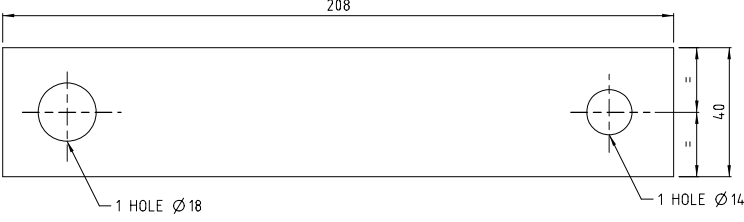

### 8.11 10 Pair Pilot Cable Junction Box Arrangements and Details



# Pair Pilot Cable Junction Box Arrangements and Details



### 8.12 Insulator Straps / Brackets

	1	2	3	4	5	
A						
B						
C	<p>ITEM 3 INSULATOR STRAP - 1 REQUIRED MATERIAL: 40x3 FLAT 208 LONG</p>					
D						
E						
F						
G	<p>ITEM 4 INSULATOR BRACKET - 1 REQUIRED MATERIAL: 40x3 FLAT</p>					
H	<p>NOTES</p> <ol style="list-style-type: none"> <li>ITEM 5 TO BE FIXED TO ITEM 1 WITH 'ARALDITE'.</li> <li>32mm CONDUIT THREAD TO BE CUT THROUGH ITEMS 1 AND 5 AFTER ASSEMBLY FOR WATERPROOF CABLE GLANDS.</li> <li>ITEMS 8 AND 9 TO BE HOT DIP GALVANISED TO AS 1650.</li> </ol>					
DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED						
ALTERATIONS	ORIGINAL ISSUE			© Tasmanian Networks PTY. LTD. trading as TasNetworks ABN: 24 167 357 299		
		DRAWN	CS PRO-SOLUTIONS	TITLE INSULATOR STRAPS/BRACKETS		
		DESIGNED BY	ELECTRO			SCALE 1:2
		CHECKED BY	H.WESTBURY			A4
		APPROVED BY				REVISION A
	DATE APPROVED	17/JAN/19	D - OHC - H012 - SD - 001			