

1

2

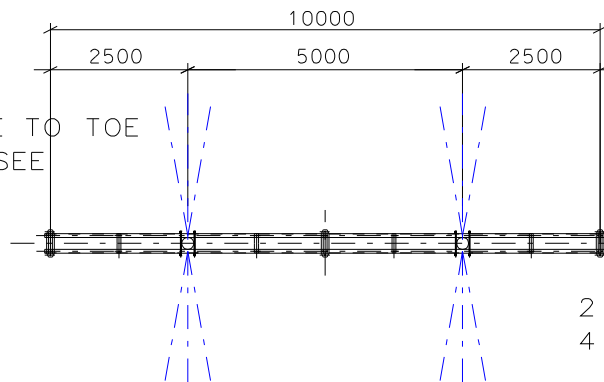
3

4

A

A

200 x 75 PFC
CHANNELS TOE TO TOE
FOR DETAILS SEE
SHEET 2



120 kN CROSS ARM
CAPACITY

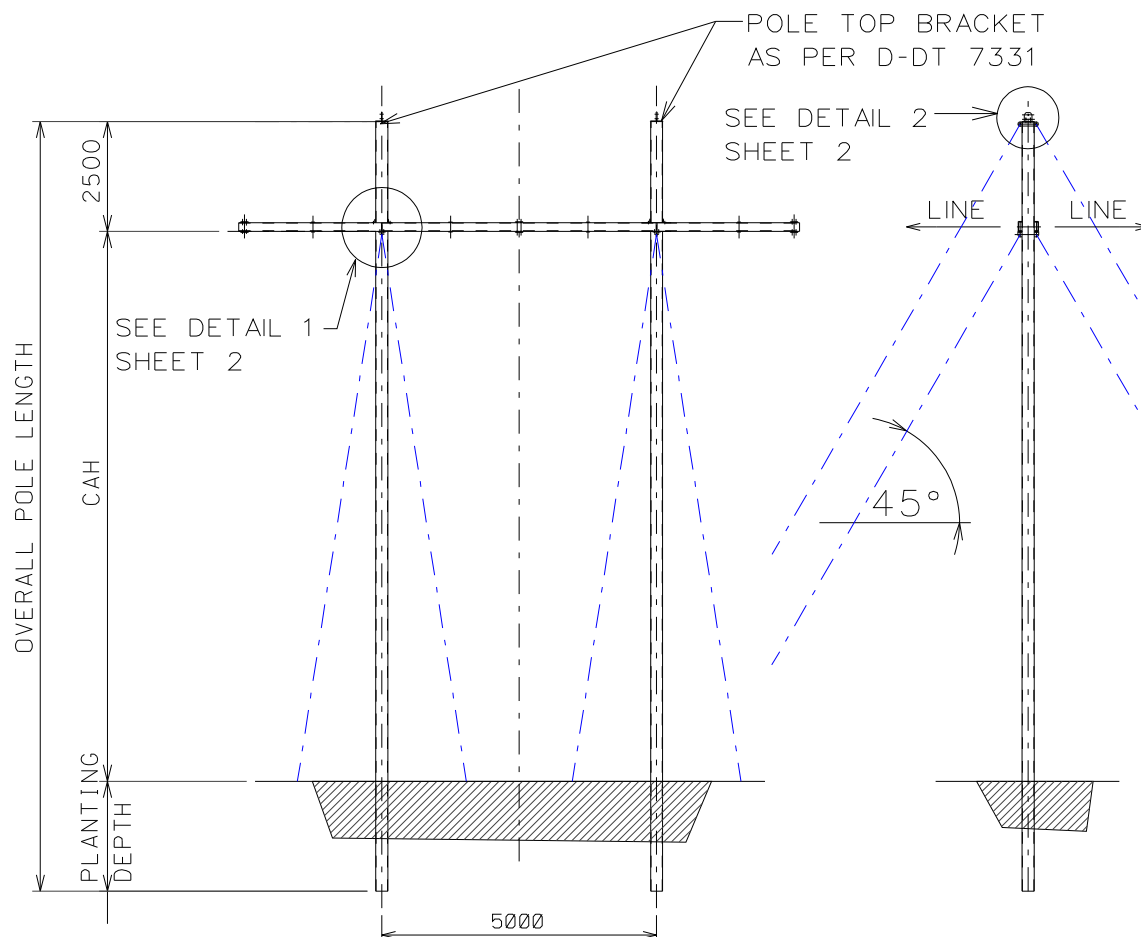
SEE DETAIL 3
SHEET 2

2 SHIELD WIRE STAYS
4 CROSS ARM STAYS SPLAYED

PLAN ON CROSS ARM

B

B



C

C

D

D

E

E

DETAILS OF IN LINE STRAIN STRUCTURE

1	RETICULATION REMOVED FROM TITLE BLOCK	N.M.	P.A.T.	P.A.T.	31.01.2010	
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AUTH: A BEKKER

DATE: SEPT 2004

CHKD: RAB

DATE: SEPT 2004

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DATE: SEPT 2004

DISTRIBUTION TECHNOLOGY
SUB-TRANSMISSION LINES

132kV H-POLE STRUCTURES - 10m XARM
IN LINE STRAIN STRUCTURE 70-120kN RANGE

D-DT 7812

SET SHEET REVISION

3

1

1

F

F

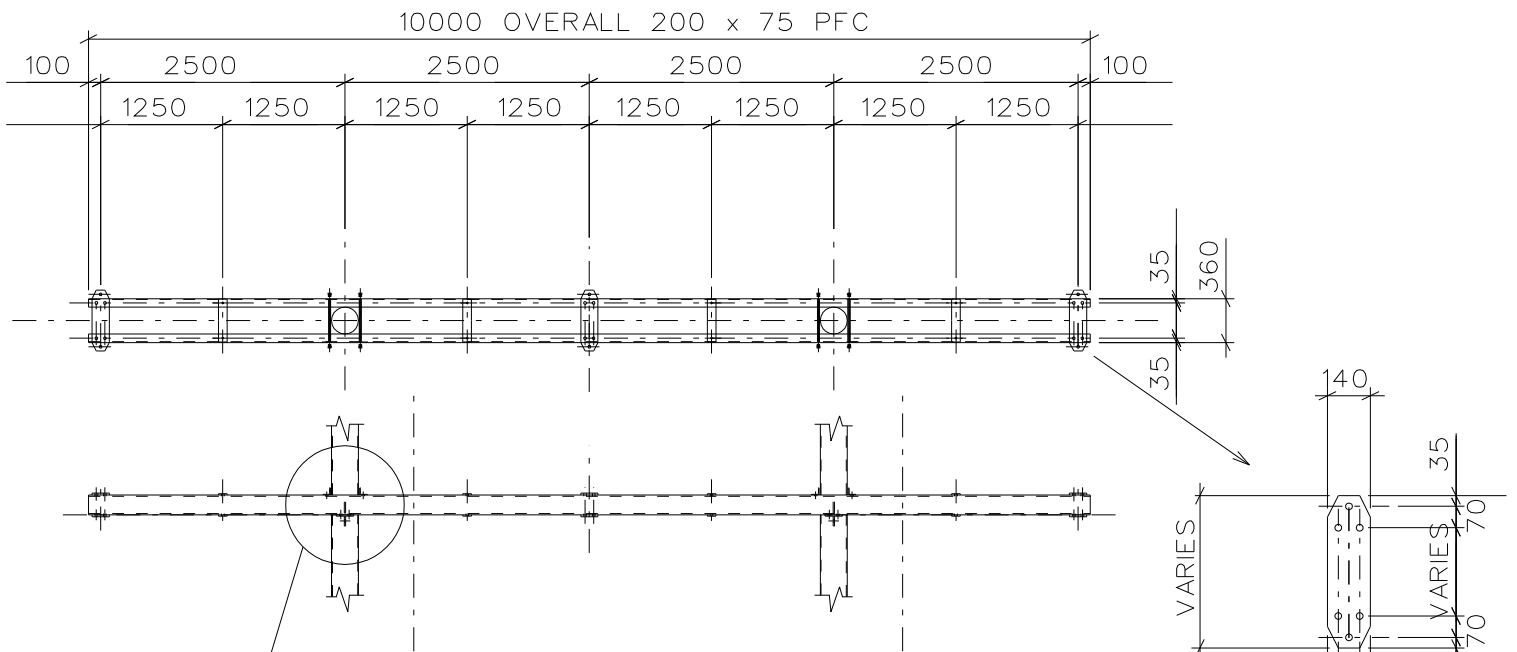
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2

3

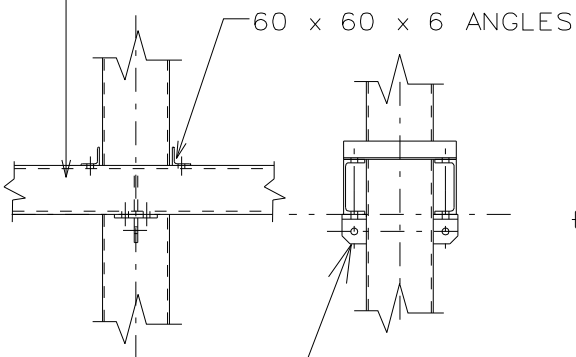
4

A4L

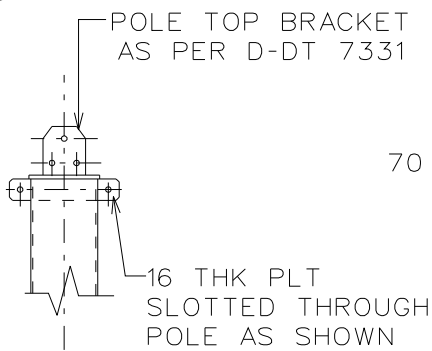


DETAILS OF CROSS ARM

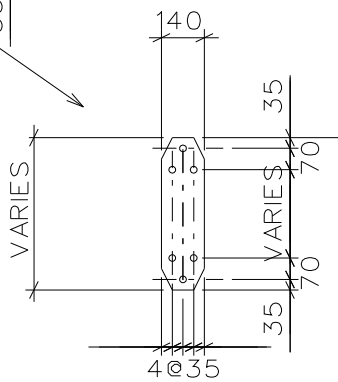
200 x 75 PFC
WITH 8THK
STIFFS



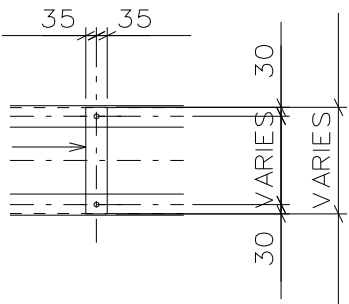
DETAIL 1



DETAIL 2



DETAIL 3



DETAIL OF
TIE PLATES

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DATE: SEPT 2004						
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DATE: SEPT 2004						



DISTRIBUTION TECHNOLOGY
SUB-TRANSMISSION LINES

132kV H-POLE STRUCTURES - 10m XARM
IN LINE STRAN STRUCTURE 70-120kN RANGE

D-DT 7812

3

2

1

1		2		3		4	
A		B		C		D	
E		F		G		H	
DESIGN CRITERIA:		ALL STEEL GRADE 300W		ALL BOLTS GRADE 8.8 BOLTS		POLES AND CROSS ARMS TO BE SUPPLIED WITH FIXING BOLTS	
POLES USED FOR H-POLE		OVERALL HEIGHT	PLANTING DEPTH	CROSS ARM ATT HEIGHT AGL	SHIELD WIRE ATT HEIGHT AGL	CONDUCTOR ATT HEIGHT AGL	
219 x 4,5 THK CHS		15.1	2.0	10.6	13.1	10.6	
219 x 4,5 THK CHS		16.1	2.0	11.6	14.1	11.6	
219 x 4,5 THK CHS		17.1	2.0	12.6	15.1	12.6	
219 x 6,0 THK CHS		18.2	2.0	13.7	16.2	13.7	
219 x 6,0 THK CHS		19.2	2.0	14.7	17.2	14.7	
324 x 4,5 THK CHS		20.1	2.0	15.6	18.1	15.6	
70 - 120kN UTS CONDUCTORS		POLES USED FOR H-POLE		WIND SPAN	WEIGHT SPAN	ELECTRICAL SPAN	
15.1		350		455	460		
16.1		350		455	460		
17.1		350		455	460		
18.2		350		455	460		
19.2		350		455	460		
20.1		350		455	460		
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DATE: SEPT 2004		IN LINE STRAN STRUCTURE 70-120kN RANGE		3		3	
DRAWN: SLR		D-DT 7812		3		1	
DATE: SEPT 2004		1		2		3	
1		2		3		4	