



INSPECTION DEPARTMENT

North main tower
expansion joint . MW.3.
DATE: 21014.10.12.

◀Inspection Record Sheet:- Mainspan . 2014.10.12.. PLATE MW3.		
Subject :- Demag plate set removal	Location. North west main tower. MW 3.	
Pre & Post removal Dimensional Checks		
Pre-removal Checks		
Task	Yes	No
* Record top side clearance gaps as identified on survey sht 2 of 4	✓	
* Mismatch between adjacent plates, rocker MW 2 – N. 4 mm S. 4 mm	✓	
rocker MW 4 - N. 3 mm. S. 0 mm	✓	
Slide plate No. 1 MW 2 - 3 mm Centre	✓	
Slide plate No.1 MW 4 - 3 mm Centre	✓	
Tongue plate MW 2 – N 11 mm .S.8mm	✓	
Tongue plate MW 4 – N 10 mm S.8 mm	✓	
* Spring lengths:- rocker plate:- 150mm	✓	
* Spring lengths:- tongue plate:- east. 82 mm West. 82mm	✓	
Mismatch between adjacent plates Main span end trimmer & rocker plate:- east.12 mm west. 8mm	✓	
Post Removal Checks		
Task	Yes	No
Slide plate cam radius:- As per drawing		✓
* Bush wall thickness: (5) mm (6) mm (7) mm (8) mm		
(9) mm (10) mm (11) mm (12) mm (13) mm (14) mm . Refer to page 3		
*Radius girder wear plate thickness:- As per drawing.		✓
* Tongue plate radius length:- As per drawing.		✓
* Tongue plate end thickness:- Worn to nothing	✓	
Remedial & Completion Checks		
Task	Yes	No
* Top side clearance gaps (complete sheet 3 of 4)	✓	
* Pins and bushes replaced:- No pins or bushes replaced .		✓
*Springs and pins replaced:- Yes. Tongue springs & Rocker spring..	✓	
* Spring lengths:- rocker plate:- 150 mm		
*Spring lengths:- tongue plate:- East. 82 mm West. 82 mm		
* Complete comment sheet 4 of 4 (if required)		
Inspected by: .	Date: 2014.10.12.	

Note. :

Spring sizes. Rocker 150 mm. Tongue plate E & W 82mm

Pre- removal. : Rocker plate spring. = 139 mm. Tongue plate springs (E) 71mm (W) 71mm

Post - removal. : Rocker plate spring. = 139 mm. Tongue plate springs (E) 71mm (W) 71mm

Springs compressed by required 11 mm. on replacement of plates.

Post removal slide plate cam radius bush wall thickness. Please refer to sheet No 3. For all sizes.

*** Slide plate cam radius recorded n/ shift 2009.01.16. as 3.785 Metres***



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Pre-removal Dimensional Checks	

N/T 0mm Bitumen Plate 0 mm N/T

48 mm 48mm

NORTH.

EAST

End of
Tongue
Plate

SOUTH.

Inspected by:	
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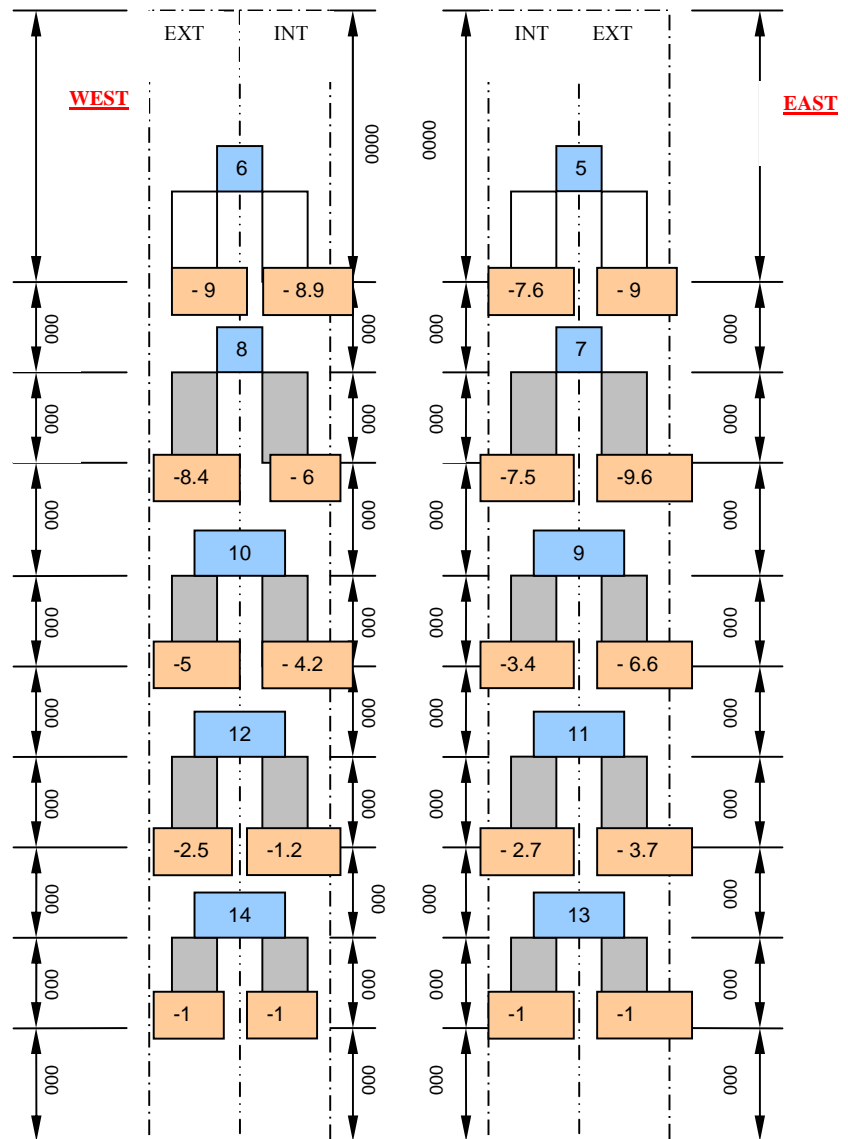
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Subject:- Demag Plate Set Removal

Location:- North west main tower. Mw.3.

Pin No.		Internal Dia.	External Dia.
Bush Thkns	5	39mm	39mm
	Top	4mm	4mm
	Bottom	4mm	4mm
	North	4mm	4mm
	South	4mm	4mm
Pin No.		Internal Dia.	External Dia.
Bush Thkns	6	39mm	39mm
	Top	3mm	4mm
	Bottom	3mm	4mm
	North	3mm	4mm
	South	mm	4mm
Pin No.		Internal Dia.	External Dia.
Bush Thkns	7	39mm	39mm
	Top	3mm	2mm
	Bottom	3mm	2mm
	North	3mm	2mm
	South	3mm	2mm
Pin No.		Internal Dia.	External Dia.
Bush Thkns	8	39mm	39mm
	Top	3mm	4mm
	Bottom	3mm	3mm
	North	3mm	4mm
	South	3mm	2mm
Pin No.		Internal Dia.	External Dia.
Bush Thkns	9	39mm	39mm
	Top	2mm	2mm
	Bottom	2mm	2mm
	North	1mm	2mm
	South	2mm	1mm
Pin No.		Internal Dia.	External Dia.
Bush Thkns	10	39mm	39mm
	Top	2mm	2mm
	Bottom	2mm	0mm
	North	1mm	2mm
	South	2mm	1mm
Pin No.		Internal Dia.	External Dia.
Bush Thkns	11	39mm	39mm
	Top	2mm	1mm
	Bottom	2mm	2mm
	North	0mm	2mm
	South	N/T	0mm
Pin No.		Internal Dia.	External Dia.
Bush Thkns	12	39mm	39mm
	Top	0mm	2mm
	Bottom	2mm	0mm
	North	0mm	0mm
	South	2mm	0mm

Pin No.		Internal Dia.	External Dia.
13		39mm	39mm
Bush Thkns	Top	1mm	0mm
	Bottom	1mm	0mm
	North	0mm	0mm
	South	1mm	0mm
Pin No.		Internal Dia.	External Dia.
14		39mm	39mm
Bush Thkns	Top	1mm	0mm
	Bottom	1mm	1mm
	North	0mm	1mm
	South	1mm	0mm



Radius girder wear down locations and Depression sizes are shown in mm.



DENOTES DEPTH OF WEAR



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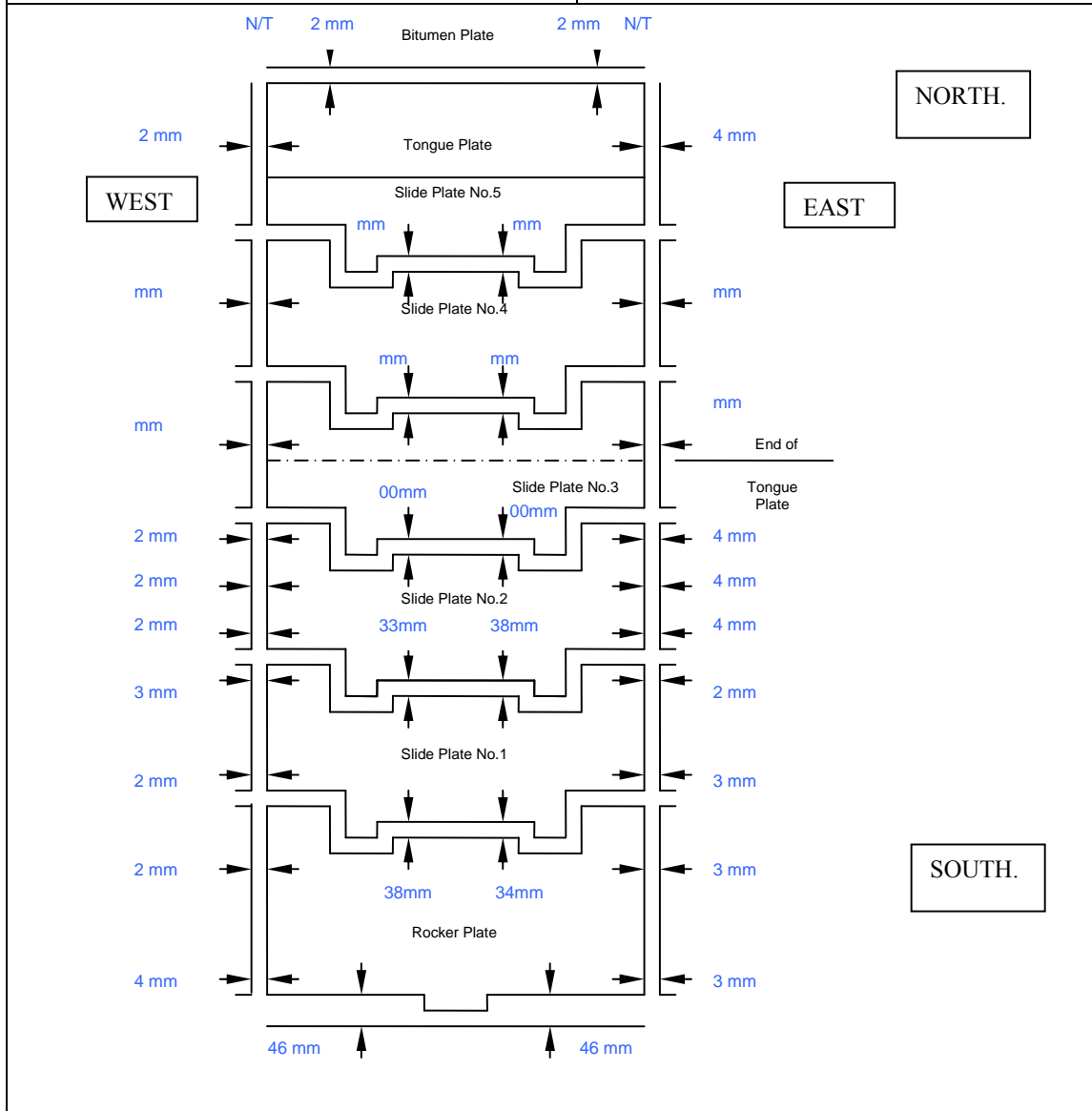
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Inspection Record Sheet:-

Subject :- Demag plate set removal

Post Inspection Dimensional Checks

Location: North main tower expansion joint
. MW 3.



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Note. : Radius arm wear-down measurements on plate MW 3. Recorded by Mr. Steven Jones.
Of Atkins , consultants.

Bridge Inspector G.Elliott.



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