

Module LNW(N)8

LNW North Route

Sectional Appendix Module 8

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LIST OF MODULE PAGES AND DATES

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1	07 October 2006
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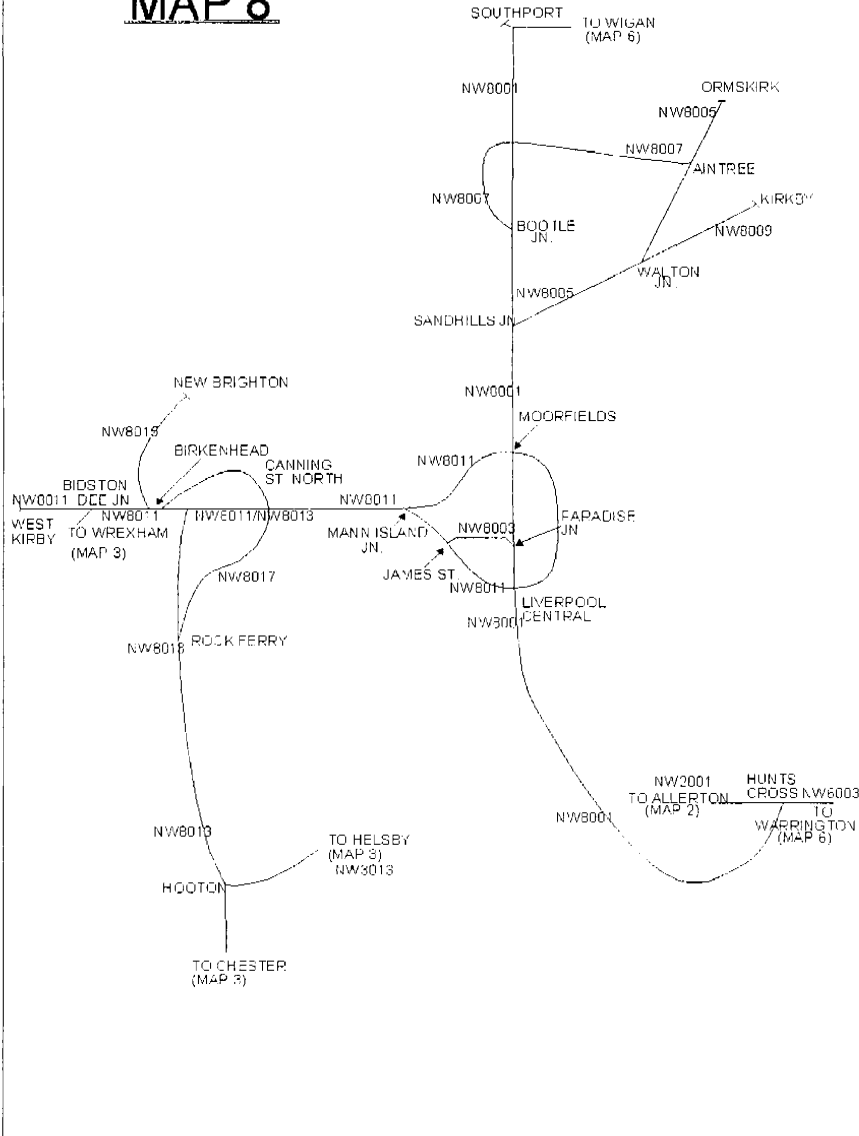
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MAPS

MAP 8



EXCEPTIONALLY POOR RAIL ADHESION

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NW8001 (HUNTS CROSS WEST JN. TO SOUTHPORT)

Location	Line(s) Affected	Mileage (Between)
Hunts Cross West Jn and Dingle Tunnel	Down Southport, Up Southport	6 m 00 ch to 2 m 00 ch
Marsh Lane Crossover and Duke Street LC	Down Southport, Up Southport	4 m 00 ch to 17 m 60 ch
Dated: 07/10/06		

NW8005 (SANDHILLS JN. TO ORMSKIRK)

Location	Line(s) Affected	Mileage (Between)
Walton Jn and Aughton Park	Down Ormskirk, Up Ormskirk	3 m 20 ch to 10 m 20 ch
Dated: 07/10/06		

NW8009 (WALTON JN. TO KIRKBY)

Location	Line(s) Affected	Mileage (Between)
Walton Jn and Kirkby	Down Kirkby, Up Kirkby	33 m 16 ch to 30 m 72 ch
Dated: 07/10/06		

NW8013 (CANNING STREET JN. TO HOOTON SOUTH JN.)

Location	Line(s) Affected	Mileage (Between)
Green Lane and Hooton North Jn	Down Chester, Up Chester	3 m 00 ch to 8 m 40 ch
Dated: 07/10/06		

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TABLE A DIAGRAMS

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LOR Seq. Line of Route Description
 NW8001 001 Hunts Cross West Jn. to Southport

ELR
 HXS1

Route
 LNW North

Last Updated
 07/10/06

Signalling & Remarks

TCB	Hunts Cross SB (HC) DC: Sandhills	NRN		CSR	
		017	41		

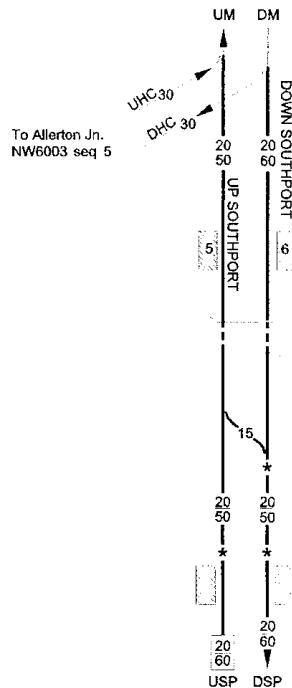
AC: Crewe (UM, DM & Chord Lines only)

Exceptional rail head conditions down and up main lines between 6m 0ch and 2m 0ch.
 UHC = up Hunts Cross chord
 DHC = down Hunts Cross chord

Platform Lengths: Liverpool South Parkway
 Platform 5
 130m (142 yards)
 Platform 6
 130m (142 yards)

USP=Up Southport
 DSP=Down Southport
 Platform Lengths: Cressington
 Up 128m (140 yards)
 Down 128m (140 yards)

Running lines & speed restrictions



Location

Mileage
 M Ch

Hunts Cross West Jn

6 11

LIVERPOOL SOUTH PARKWAY
 (Southport Lines)

5 47

Woolton Rd. Tunnel
 (57m/62yd)

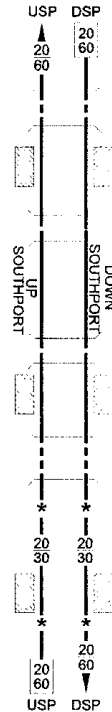
5 42
 to
 5 39

4 77 *

CRESSINGTON

4 60 *
 4 56

LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
NW8001	002	Hunts Cross West Jn. to Southport	HXS1	LNW North	07/10/06
Location	Mileage M Ch	Running lines & speed restrictions	Signalling & Remarks		
			TCB	Hunts Cross SB (HC) DC: Sandhills	NRN 017 CSR 41
Grassendale Tunnel (69m/76yd)	4 43 to 4 40				
AIGBURTH	3 78				
Fulwood Tunnel (183m/200yd)	3 23 to 3 14				
St. Michael's Tunnel (94m/103yd)	2 55 to 2 51				
ST. MICHAEL'S	2 48				
Dingle Tunnel (989m/1082yd)	2 32 to 1 63 1 62 *				
BRUNSWICK	1 43 1 31 *				



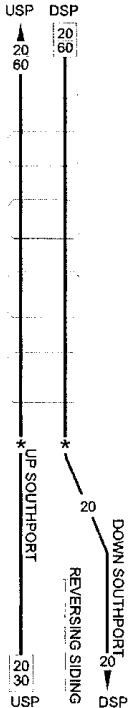
Platform Lengths: Aigburth
Up: 128m (140 yards)
Down: 128m (140 yards)

Exceptional rail head conditions down
and up main lines between
6m 0ch and 2m 0ch.

Platform Lengths: St. Michael's
Up: 130m (142 yards)
Down: 130m (142 yards)

Platform Lengths: Brunswick
Up: 132m (144 yards)
Down: 132m (144 yards)

USP = Up Southport
DSP = Down Southport

LOR	Seq.	Line of Route Description	ELR		Route	Last Updated
NW8001	003	Hunts Cross West Jn. to Southport	HXS1		LNW North	07/10/06
Location		Mileage M Ch	Running lines & speed restrictions		Signalling & Remarks	
					<div>TCB</div> <div>Hunts Cross SB (HC) DC: Sandhills</div> <div>Merseyrail SB (ML)</div> <div>Area channel change in the up direction from HC.108 and in the down direction from ML.21.</div> <div>AWS not provided between signals HC.107 and ML 35/37 inclusive (down) and signals ML 52 and HC.108 inclusive (up).</div> <div>USP=Up Southport DSP=Down Southport</div>	
St. James No.4 Tunnel (193m/211yd)	1 21 to 1 11				NRN 017	CSR 41
St. James No.3 Tunnel (140m/153yd)	1 10 to 1 04					
St. James No.2 Tunnel (157m/172yd)	1 02 to 0 74					
St. James No.1 Tunnel (169m/185yd)	0 72 to 0 64					CSR Up 41 CSR Down 39
Start/End of underground section	0 59 0 29 *					

LOR Seq. Line of Route Description			ELR		Route	Last Updated
NW8001 004 Hunts Cross West Jn. to Southport			HXS1 HXS2		LNW North	07/10/06
Location	Mileage M Ch	Running lines & speed restrictions	Signalling & Remarks			
Liverpool Central South Jn.	0 09 * 0 05 *	<p>USP RS DSP</p> <p>20 30 15 10 20 15 15 15 20 30 15 15</p> <p>1 2</p> <p>To Stock Interchange /Holding Line NW8003 seq 1</p> <p>USP DSP</p>	<div>TCB Merseyrail SB (ML) DC: Sandhills</div> <div>NRN 017 CSR 39</div>			
LIVERPOOL CENTRAL	0 02 37 13		<p>All lines shown on this page are underground.</p> <p>AWS not provided on this page RS=Reversing Siding</p> <p>Platform Lengths: Liverpool Central Platform 1 135m (148 yards) Platform 2 135m (148 yards)</p>			
Liverpool Central North Jn.	37 05					
Paradise Jn	37 00 * 36 71					
	36 49 *		<p>USP=Up Southport DSP=Down Southport</p>			

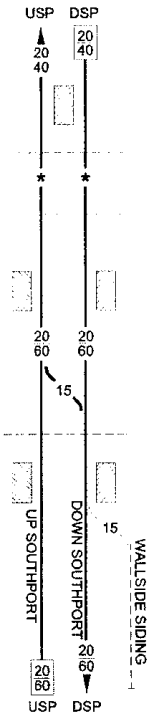
LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
NW8001	005	Hunts Cross West Jn. to Southport	HXS2	LNW North	07/10/06
Location	Mileage M Ch		Running lines & speed restrictions		
MOORFIELDS	36	45			
	36	40 *			
Leeds St. Portal Central Tunnel Start/End of Underground Section	36	17			
Leeds Street Jn.	35	72 *			

TCB	Mersayrail SB (ML) DC: Sandhills	NRN 017	CSR 39
AWS not provided on the Up Southport line from ML.52 inclusive and ML.37 (in the down direction) inclusive			
Platform Lengths: Moorfields Up: 128m (140 yards) Down: 128m (140 yards)			
AWS not provided on the Down Southport line to ML.35 inclusive.			
USP = Up Southport DSP = Down Southport			

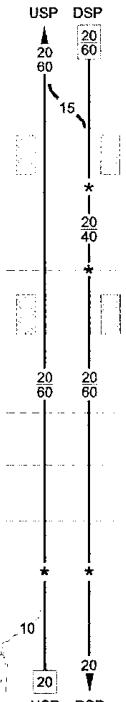
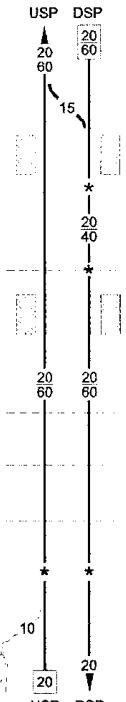
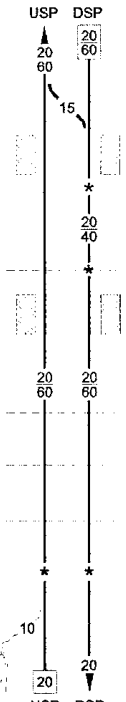
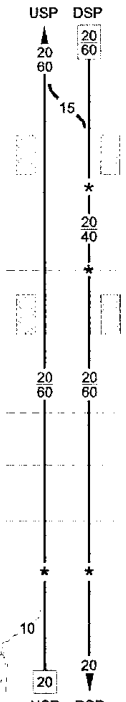
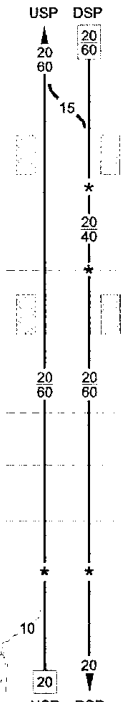
LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
NW8001	006	Hunts Cross West Jn. to Southport	HXS2 HXS3	LNW North	07/10/06
Location	Mileage M Ch	Running lines & speed restrictions	Signalling & Remarks		
SANDHILLS	35 03		TCB Merseyrail SB (ML) DC: Sandhills		
Merseyrail SB (ML)	35 00		NRN 017 CSR 39		
Sandhills Jn.	34 75 * 1 41		<p>USP = Up Southport DSP = Down Southport</p> <p>Platform Lengths: Sandhills Platform 1 129m (141 yards) Platform 2 130m (142 yards)</p>		

LOR	Seq	Line of Route Description	ELR	Route	Last Updated
NW8001	007	Hunts Cross West Jn. to Southport	HXS3 BSJ	LNW North	07/10/06
Location	Mileage M Ch	Running lines & speed restrictions	Signalling & Remarks		
BANK HALL	1 58 *		TCB Merseyrail SB (ML) DC: Sandhills (Down and up Southport lines only)		
	2 06		Platform Lengths: Bank Hall Up: (bi-di) 150m (164 yards) Down: 150m (164 yards)		
	2 17 *		OT applies on the 'Down & Up' Goods Line USP = Up Southport DSP = Down Southport		
Bootle Junction	2 39				
BOOTLE ORIEL ROAD	2 61		Platform Lengths: Bootle Oriel Road Up 129m (141 yards) Down 141m (154 yards)		

LOR	Seq	Line of Route Description	ELR	Route	Last Updated
NW8001	008	Hunts Cross West Jn. to Southport	HXS3	LNW North	07/10/06
Location	Mileage M Ch	Running lines & speed restrictions	Signalling & Remarks		
BOOTLE NEW STRAND			TCB Merseyrail SB (ML) DC: Sandhills (Down & up Southport lines only)		
	3 15		NRN 017 CSR 39		
	3 28 *				
Marsh Lane Crossover	3 52				
SEAFORTH & LITHERLAND	4 14		OT applies on the 'Down & Up' Goods Line Platform Lengths: Bootle New Strand Up 139m (152 yards) Down 151m (165 yards) Exceptional rail head conditions down and up main lines between 4m 0ch and 17m 60ch. USP = Up Southport DSP = Down Southport Platform Lengths: Seaforth and Litherland Up 127m (139 yards) Down 126m (138 yards)		
	5 04 *				

LOR	Seq.	Line of Route Description		ELR	Route	Last Updated					
NW8001	009	Hunts Cross West Jn. to Southport		HXS3	LNW North	07/10/06					
Location		Mileage M Ch	Running lines & speed restrictions		Signalling & Remarks						
					<table><tr><td>TCB</td><td>Merseyrail SB (ML) DC: Sandhills</td><td>NRN 017</td><td>CSR 39</td></tr></table> <p>Platform Lengths: Waterloo Up 122m (133 yards) Down 120m (131 yards)</p> <p>Platform Lengths: Blundellsands & Crosby Up 126m (138 yards) Down 134m (147 yards)</p> <p>Exceptional rail head conditions down and up main lines between 4m 0ch and 17m 60ch.</p> <p>Platform Lengths: Hall Road Up 126m (138 yards) Down 150m (164 yards)</p>			TCB	Merseyrail SB (ML) DC: Sandhills	NRN 017	CSR 39
TCB	Merseyrail SB (ML) DC: Sandhills	NRN 017	CSR 39								
WATERLOO		5 20									
Waterloo LC (CCTV)		5 39									
		5 41 *									
Brook Hall Rd LC (CCTV)		5 69									
BLUNDELLSANDS & CROSBY		6 28									
Hall Road LC (CCTV)		7 10									
HALL ROAD		7 14									

LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
NW8001	010	Hunts Cross West Jn. to Southport	HXS3	LNW North	07/10/06
Location	Mileage M Ch	Running lines & speed restrictions	Signalling & Remarks		
			TCB	Merseyrail SB (ML) DC: Sandhills	<div>NRN</div> <div>017</div> <div>CSR</div> <div>39</div>
HIGHTOWN	9 09		Platform Lengths: Hightown Up: 126m (138 yards) Down: 126m (138 yards)		
Hesketh L.C. (UWC)	9 61	T			
Eccles L.C. (CCTV)	10 79		Platform Lengths: Formby Up: 120m (131 yards) Down: 120m (131 yards)		
FORMBY	11 14				
	11 25		USP = Up Southport DSP = Down Southport		
Freshfield L.C (CCTV)	11 79		Exceptional rail head conditions down and up main lines between 4m 0ch and 17m 80ch.		
FRESHFIELD	12 03		Platform Lengths: Freshfield Up 142m (155 yards) Down 127m (139 yards)		
Fisherman Path L.C (UWC)	12 46	T			
Wheelchex (Ainsdale)	14 18				
AINSDALE	14 62		Platform Lengths: Ainsdale Up 123m (135 yards) Down 122m (133 yards)		
Ainsdale LC (CCTV)	14 87				

LOR	Seq	Line of Route Description	ELR	Route	Last Updated	
NW8001	011	Hunts Cross West Jn. to Southport	HXS3	LNW North	07/10/06	
Location		Mileage M Ch	Running lines & speed restrictions		Signalling & Remarks	
HILLSIDE		16 26			16 30 *	
		Crescent Rd LC (AHBC)			16 76 *	
		BIRKDALE		17 22		
		Birkdale LC (CCTV)	17 26			
		Aughton Rd LC (CCTV)	17 49			
		Duke Street LC (CCTV)	17 65			
		Portland St LC (CCTV)	18 00			
			18 05 *			
			Birkdale Sidings			
			USP DSP			

TCB	Merseyrail SB (ML) DC: Sandhills	NRN 017	CSR 39
Platform Lengths: Hillside Up: 137m (150 yards) Down: 137m (150 yards)			
USP = Up Southport DSP = Down Southport			
Platform Lengths: Birkdale Up 141m (154 yards) Down 130m (142 yards)			
Exceptional rail head conditions down and up main lines between 4m 0ch and 17m 60ch.			

LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
NW8001	012	Hunts Cross West Jn. to Southport	HXS3 WBS3	LNW North	07/10/06
Location	Mileage M Ch	Running lines & speed restrictions	Signalling & Remarks		
SOUTHPORT	18 19 *		TCB	Merseyrail SB (ML) DC: Sandhills	<div>NRN</div> <div>017</div> <div>CSR</div> <div>39</div>
	18 35		<p>Platform Lengths: Southport</p> <p>Platform 1 Permissive BAY 135m (148 yards)</p> <p>Platform 2 Permissive BAY 177m (194 yards)</p> <p>Platform 3 Permissive BAY 185m (202 yards)</p>		

LOR	Seq.	Line of Route Description	ELR
NW8003	001	Paradise Jn. to James Street (Stock Interchange/Holding line)	SIL
Location	Mileage M Ch	Running lines & speed restrictions	
Paradise Jn	36 71 0 32		
Derby Square Jn	0 46		
JAMES STREET	0 53 (2 05) (2 08) *		
Mann Island Jn	0 69 * 2 21		

Route	Last Updated
LNW North	07/10/06
Signalling & Remarks	
TCB	Merseyrail SB (ML) DC: Sandhills
	NRN 017 CSR 39
AWS not provided on this page	
All lines shown on this page are Underground.	
Area channel change at James St. Stn. platform 2.	
Platform Lengths: James Street Platform 2: 129m (141 yards)	
	Up CSR 39 Down CSR 40

LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
NW8005	001	Sandhills Jn. to Ormskirk	SJO1	LNW North	07/10/06
Location	Mileage M Ch	Running lines & speed restrictions	Signalling & Remarks		
Sandhills Jn	34 75 *	<p>To Sandhills NW8001 seq 6</p> <p>USP DSP</p> <p>20 45 20 45</p> <p>20 35 20 35</p> <p>20 35 20 35</p> <p>To Bootle Junction NW8001 seq 6</p> <p>15 15</p> <p>20 50 20 50</p> <p>Kirkdale Maintenance Depot</p> <p>15</p> <p>UP ORMSKIRK DOWN ORMSKIRK</p> <p>20 60 20 60</p> <p>UO DO</p>			<p>TCB Merseyrail SB (ML) DC: Sandhills</p> <p>NRN CSR 017 39</p> <p>USP=Up Southport DSP=Down Southport</p> <p>Platform Lengths: Kirkdale Up 130m (142 yards) Down 127m (139 yards)</p> <p>UO=Up Ormskirk DO=Down Ormskirk</p>
	34 58 *				
	34 52 *				
Kirkdale South Junction	34 48				
	34 19 *				
KIRKDALE	34 14				
Kirkdale North Junction	34 03				

LOR	Seq.	Line of Route Description	ELR		Route	Last Updated			
NW8005	002	Sandhills Jn. to Ormskirk	SJO1	SJO2	LNW North	07/10/06			
Location	Mileage M Ch	Running lines & speed restrictions			Signalling & Remarks				
					TCB	Merseyrail SB (ML) DC: Sandhills			
					<table><tr><th>NRN</th><th>CSR</th></tr><tr><td>017</td><td>39</td></tr></table>	NRN	CSR	017	39
NRN	CSR								
017	39								
Kirkdale No.2 Tunnel (192m/210yd)	33 71 to 33 60				UO=Up Ormskirk DO=Down Ormskirk UK=Up Kirkby DK=Down Kirkby				
Kirkdale No.1 Tunnel (454m/497yd)	33 56 to 33 33								
Walton Jn	33 16 3 20				Exceptional rail head conditions down and up main lines between 3m 20ch and 10m 20ch.				
	3 31 *								
WALTON	3 45				Platform Lengths: Walton Up 169m (185 yards) Down 140m (153 yards)				
	3 58 *								
ORRELL PARK	3 75				Platform lengths: Orrell Park Up: 147m (161 yards) Down: 147m (161 yards)				

LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
NW8005	003	Sandhills Jn. to Ormskirk	SJO2	LNW North	07/10/06
Location	Mileage M Ch	Running lines & speed restrictions	Signalling & Remarks		
Aintree Emergency GF	4 62		TCB Mersayrail SB (ML) DC: Sandhills		
AINTREE	4 68		Platform Lengths: Aintree Up 161m (176 yards) Down 117m (128 yards)		
OLD ROAN	5 10		Exceptional rail head conditions down and up main lines between 3m 20ch and 10m 20ch. UO = Up Ormskirk DO = Down Ormskirk		
	5 62		Platform Lengths: Old Roan Up 128m (140 yards) Down 129m (141 yards)		
	7 13				
Magull L.C. (CCTV)	7 25		Platform Lengths: Maghull Up 153m (167 yards) Down 142m (155 yards)		
MAGHULL	7 29				

LOR	Seq	Line of Route Description	ELR	Route	Last Updated
NW8005	004	Sandhills Jn. to Ormskirk	SJO2	LNW North	07/10/06
Location	Mileage M Ch	Running lines & speed restrictions	Signalling & Remarks		
			TCB	Merseyrail SB (ML) DC: Sandhills	NRN 017 CSR 39
		<p>UO DO</p> <p>20 20</p> <p>60 60</p> <p>15</p> <p>DOWN ORMSKIRK</p> <p>UP ORMSKIRK</p> <p>15</p> <p>To Rufford NW7007 seq 2</p>	<p>UO = Up Ormskirk DO = Down Ormskirk</p> <p>Platform Lengths: Town Green Up 127m (139yards) Down 134m (147yards)</p> <p>Platform Lengths: Aughton Park Up 130m (142 yards) Down 129m (141 yards)</p> <p>Exceptional rail head conditions down and up main lines between 3m 20ch and 10m 20ch.</p> <p>Platform Lengths: Ormskirk Up & Down 112m (122 yards)</p>		
TOWN GREEN	9 79				
	10 08				
AUGHTON PARK	10 78				
	12 01				
ORMSKIRK	12 13				

LOR	Seq.	Line of Route Description	ELR		Route	Last Updated
NW8007	001	Bootle Jn. to Aintree Emergency G.F.	HXS	NMM	LNW North	07/10/06
Location	Mileage M Ch	Running lines & speed restrictions			Signalling & Remarks	
Bootle Junction	2 34				OT	Merseyrail SB (ML)
	2 39					
	2 45 *					
	(2 61)					
(BOOTLE ORIEL ROAD)					DC: Sandhills on Down Southport & Up Southport lines only.	
(BOOTLE NEW STRAND)	(3 14)				UB=Up Bootle DB=Down Bootle	
	3 52					
	34 40					

LOR	Seq.	Line of Route Description	ELR		Route	Last Updated
NW8007	002	Bootle Jn. to Aintree Emergency G.F.	NMB	AFL	LNW North	07/10/06
Location	Mileage M Ch		Running lines & speed restrictions		Signalling & Remarks	
					OT Merseyrail SB (ML) <div> NRN 017 CSR 39 </div> <p>DC: Sandhills (Down & up Ormskirk line only)</p> <p>'D&U'G='Down & up' goods 1 Applies to class 60 locomotives only 2 Applies to all other trains.</p>	
	34	20 *				
	34	00 *				
Aintree West L.C. (UWC)	32	65 *				
	32	42 *				
	0	00				
Aintree Emergency GF	0	33 *				
	4	62 *				
AINTREE	4	69				

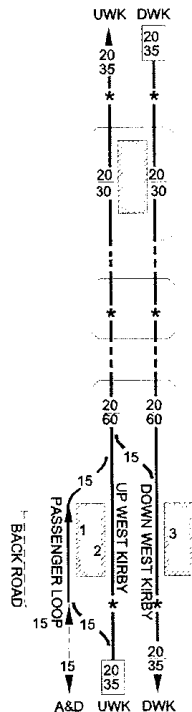
LOR	Seq.	Line of Route Description	ELR	Route	Last Updated	
NW8009	001	Walton Jn. to Kirkby	WJK	LNW North	07/10/06	
Location	Mileage M Ch	Running lines & speed restrictions	Signalling & Remarks			
Walton Jn	33 16 *	<p>To Kirkdale NW8005 seq 2</p> <p>To Ormskirk NW8005 seq 2</p> <p>To Rainford NW6015 seq 2</p>	TCB	Merseyrail SB (ML) DC: Sandhills	NRN 017	CSR 39
	33 00 *		DO=Down Ormskirk UO=Up Ormskirk			
			Exceptional rail head conditions down and up main lines between 33m 16ch and 30m 72ch.			
RICE LANE	32 60 *		Platform Lengths: Rice Lane Up 128m (140 yards) Down 140m (153 yards)			
FAZAKERLEY	32 54 *					
Fazakerley L.C. (UWC)	31 31		Platform Lengths: Fazakerley Up 128m (140 yards) Down 140m (153 yards)			
	31 16 [T]					
	30 77 *					
	30 72 *					
	29 48 *					
KIRKBY	29 41		Platform Lengths: Kirkby Permissive BAY 126m (138 yards)			

LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
NW8011	001	Mann Island Jn. to West Kirby (Via Loop)	MIR1	LNW North	07/10/06
Location	Mileage M Ch	Running lines & speed restrictions	Signalling & Remarks		
			TCB	Merseyrail SB (ML) DC: Sandhills	NRN 017 CSR 40
Mann Island Jn	0 00		<p>AWS not provided on this page</p> <p>All lines on this page are underground</p> <p>DWK=Down West Kirby UWK=Up West Kirby</p> <p>Platform Lengths: James Street Platform 1 129m (141 yards)</p> <p>Platform Lengths: Moorfields 128m (140 yards)</p> <p>Platform Lengths: Liverpool Lime Street 128m (140 yards)</p>		
JAMES STREET	0 16 *				
MOORFIELDS	0 39				
LIVERPOOL LIME STREET	1 06				

LOR	Seq.	Line of Route Description	ELR		Route	Last Updated
NW8011	002	Mann Island Jn. to West Kirby (Via Loop)	MIR1	MIR2	LNW North	07/10/06
Location	Mileage M Ch	Running lines & speed restrictions	Signalling & Remarks			
LIVERPOOL CENTRAL	1 48		TCB Merseyrail SB (ML) DC: Sandhills			
JAMES STREET	2 05 (0 53) 2 08 *		AWS not provided on this page () mileage applies to West Kirby All lines on this page are under-ground L=Loop Platform Lengths: James Street Platform 2 129m (141 yards) Platform 3 129m (141 yards)			
Mann Island Jn	0 69 *					

LOR	Seq.	Line of Route Description	ELR		Route	Last Updated
NW8011	003	Mann Island Jn. to West Kirby (Via Loop)	MIR2	CWK1	LNW North	07/10/06
Location		Mileage M Ch	Running lines & speed restrictions		Signalling & Remarks	
					TCB	Merseyrail SB (ML) DC: Sandhills
						NRN 017 CSR 40
Canning Street Junction		1 60 *			<p>AWS not provided on this page. All lines on this page are under- ground with the exception of Conway Park station. See local instructions.</p> <p>Platform Lengths: Hamilton Square Platform 1 123m (135 yards) Platform 3 128m (140 yards)</p> <p>Platform Lengths: Conway Park Up: 127m (139 yards) Down: 127m (139 yards)</p>	
HAMILTON SQUARE		1 67				
Hamilton Square Jn		1 72 *				
		2 09 *				
CONWAY PARK		2 24				

LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
NW8011	004	Mann Island Jn. to West Kirby (Via Loop)	CWK1 CWK2	LNW North	07/10/06
Location	Mileage M Ch	Running lines & speed restrictions	Signalling & Remarks		
			TCB	Merseyrail SB (ML) DC: Sandhills	NRN 017 CSR 40
Mersey Tunnel	2 64 *				
	2 69				
BIRKENHEAD PARK	3 05				
Cavendish Street Tunnel (69m/75yd)	3 15 to 3 19				
Corporation Road Tunnel (56m/64yd)	3 25 *				
	3 45 to 3 48				
BIRKENHEAD NORTH	3 75				
	4 00 *				



AWS not provided between Mann Island Junction and Birkenhead Park

Platform Lengths: Birkenhead Park
Up 129m (141 yards)
Down 121m (132 yards)

Platform Lengths: Birkenhead North
Platform 1 Permissive PP-C
111m (121 yards)
Platform 2 Permissive PP-C
127m (139 yards)
Platform 3
124m (136 yards)

Passenger Loop 6 coaches
Back Road 237m (777ft)

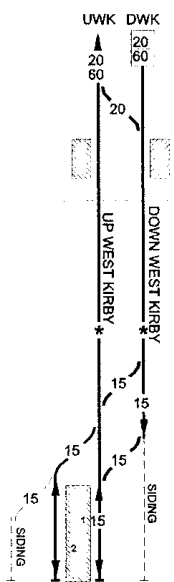
A&D = Arrival & Departure line

LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
NW8011	005	Mann Island Jn. to West Kirby (Via Loop)	CWK2 CWK3	LNW North	07/10/06
Location	Mileage M Ch	Running lines & speed restrictions	Signalling & Remarks		
Birkenhead North TMD	4 22 *		<div>TCB Merseyrail SB (ML) DC: Sandhills</div> <div>NRN 017 CSR 40</div>		
Bidston East Jn	4 40		<div>A&D=Arrival and Departure line</div> <div>U&D TS=Up & down through siding</div> <div>DNB=Down New Brighton UNB=Up New Brighton</div>		

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LNW North Route Sectional Appendix Module LNW(N,

LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
NW8011	007	Mann Island Jn. to West Kirby (Via Loop)	CWK3	LNW North	07/10/06
Location	Mileage M Ch	Running lines & speed restrictions	Signalling & Remarks		
MORETON	6 29		TCB	Merseyrail SB (ML) DC: Sandhills	<div>NRN</div> <div>017</div> <div>CSR</div> <div>40</div>
Carr Lane L.C. (UWC)	7 53		Platform Lengths: Moreton Up: 127m (139 yards) Down: 126m (138 yards)		
MEOLS	8 11		Platform Lengths: Meols Up: 127m (139 yards) Down: 126m (138 yards)		
Tolans L.C. (UWC)	8 43				
Carlton Lane L.C. (UWC)	8 59				
Sandringham Avenue L.C. (UWC)	8 66				
	8 67 *				
MANOR ROAD	8 71		Platform Lengths: Manor Road Up: 128m (140 yards) Down: 128m (140 yards)		
Elm Grove L.C. (UWC)	9 00				
Melrose Avenue L.C. (UWC)	9 05				
	9 07 *				

LOR	Seq.	Line of Route Description	ELR	Route	Last Updated			
NW8011	008	Mann Island Jn. to West Kirby (Via Loop)	CWK3	LNW North	07/10/06			
Location		Mileage M Ch	Running lines & speed restrictions		Signalling & Remarks			
HOYLAKE		9 27			TCB	Mersayrail SB (ML) DC: Sandhills	NRN 017	CSR 40
Hoylake LC (CCTV)		9 31			Platform Lengths: Hoylake Up 126m (138 yards) Down 127m (139 yards)			
		10 14 *						
WEST KIRBY		10 46			Platform Lengths: West Kirby Platform 1 Permissive BAY 128m (140 yards) Platform 2 Permissive BAY 125m (137 yards)			

LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
NW8013	001	Canning Street Jn. to Hooton South Jn.	MIR2	LNW North	07/10/06
Location	Mileage M Ch	Running lines & speed restrictions	Signalling & Remarks		
			TCB	Merseyrail SB (ML) DC: Sandhills	NRN 017 CSR 40
Canning Street Junction	1 60 *		AWS not provided on this page Line is underground to Birkenhead Central		
HAMILTON SQUARE	1 67		Platform Lengths: Hamilton Square Platform 1 123m (135 yards) Platform 2 118m (129 yards)		
Hamilton Square Jn	1 72 *				
Mersey Tunnel	2 24 *		Platform Lengths: Birkenhead Central Platform 1 144m (157 yards) Platform 2 127m (139 yards)		
BIRKENHEAD CENTRAL	2 30 2 34 *		UC=Up Chester DC=Down Chester		

LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
NW8013	002	Canning Street Jn. to Hooton South Jn.	MIR2 CRR2	LNW North	07/10/06
Location	Mileage M Ch	Running lines & speed restrictions	Signalling & Remarks		
			TCB	Merseyrail SB (ML) DC: Sandhills	NRN 017 CSR 40
Hinderton Field Tunnel (454m/497yd)	2 39 2 48 * 2 49 * to 2 61		AWS not provided between top of page and Rock Ferry		
GREEN LANE	2 64		Platform lengths: Green Lane Up 127m (139 yards) Down 126m (138 yards)		
Green Lane Tunnel (54m/59yd)	2 66 to 2 69		Exceptional rail head conditions down and up main lines between 3m 0ch and 8m 40ch.		
Rock Ferry North Jn	3 27		DUCS= Down & up Canning Street (line out of use)		
ROCK FERRY	3 42 * 13 43		Platform Lengths: Rock Ferry Platform 1 134m (147 yards) Platform 2 134m (147 yards) Platform 3 Permissive BAY 129m (141 yards) Platform 4 Permissive BAY 129m (141 yards)		

LOR	Seq.	Line of Route Description	ELR	Route	Last Updated							
NW8013	003	Canning Street Jn. to Hooton South Jn.	CRR2	LNW North	07/10/06							
Location	Mileage M Ch	Running lines & speed restrictions	Signalling & Remarks									
			<table><tr><td>TCB</td><td>Merseyrail SB (ML) DC: Sandhills</td><td><table><tr><th>NRN</th><th>CSR</th></tr><tr><td>017</td><td>40</td></tr></table></td></tr></table> <p>Platform Lengths: Bebington Up 128m (140 yards) Down 128m (140 yards)</p> <p>Platform Lengths: Port Sunlight Up 131m (143 yards) Down 129m (141 yards)</p> <p>Exceptional rail head conditions down and up main lines between 3m 0ch and 8m 40ch.</p> <p>Platform Lengths: Spital Up 151m (165 yards) Down 153m (167 yards)</p> <p>Platform Lengths: Bromborough Rake Up 128m (140 yards) Down 127m (139 yards)</p> <p>Area channel change at Bromborough Rake Station.</p> <p>Hooton SB (HN)</p>			TCB	Merseyrail SB (ML) DC: Sandhills	<table><tr><th>NRN</th><th>CSR</th></tr><tr><td>017</td><td>40</td></tr></table>	NRN	CSR	017	40
TCB	Merseyrail SB (ML) DC: Sandhills	<table><tr><th>NRN</th><th>CSR</th></tr><tr><td>017</td><td>40</td></tr></table>	NRN	CSR	017	40						
NRN	CSR											
017	40											
Rock Ferry South Jn.	13 30											
BEBINGTON	12 36											
PORT SUNLIGHT	11 61											
	11 42											
SPITAL	11 16											
BROMBOROUGH RAKE	10 38		<table><tr><td>Up</td><td>CSR 40</td></tr><tr><td>Down</td><td>CSR 38</td></tr></table>			Up	CSR 40	Down	CSR 38			
Up	CSR 40											
Down	CSR 38											

LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
NW8013	004	Canning Street Jn. to Hooton South Jn.	CRR3 CRR1	LNW North	07/10/06
Location	Mileage M Ch	Running lines & speed restrictions	Signalling & Remarks		
BROMBOROUGH	9 71	<p>UC DC</p> <p>60 60</p> <p>20 20</p> <p>15 15</p> <p>25 25</p> <p>15 15</p> <p>25 25</p> <p>60 60</p> <p>UC DC</p> <p>Run-round siding</p> <p>To Capenhurst NW3011 seq 2</p> <p>To Ellesmere Port NW3015 seq 1</p>	<p>TCB Hooton SB (HN) DC: Sandhills</p> <p>NRN 017 CSR 38</p>		
EASTHAM RAKE	8 68		<p>Platform Lengths: Bromborough</p> <p>Up: 130m (142 yards)</p> <p>Down: 130m (142 yards)</p>		
Hooton North Jn.	8 17		<p>Platform Lengths: Eastham Rake</p> <p>Up: 131m (143 yards)</p> <p>Down: 131m (143 yards)</p>		
HOOTON	8 08		<p>Exceptional rail head conditions down and up main lines between 3m 0ch and 8m 40ch.</p>		
Hooton SB (HN)	7 72 *		<p>Platform Lengths: Hooton</p> <p>Platform 1 Permissive BAY 116m (127 yards)</p> <p>Platform 2 151m (165 yards)</p> <p>Platform 3 151m (165 yards)</p>		
Hooton South Jn	7 68 0 02				

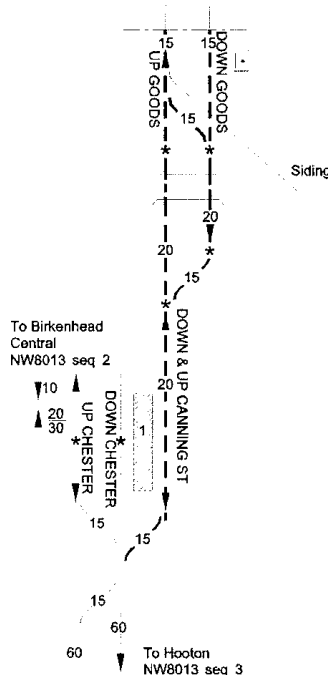
LNW North Route Sectional Appendix Module LNW(N)

LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
NW8015	001	Bidston East Jn. to New Brighton (New Brighton lines)	CWK3 BEN	LNW North	07/10/06
Location		Mileage M Ch	Running lines & speed restrictions		Signalling & Remarks
Bidston East Jn		4 40	<div><div><div>To Birkenhead North NW8011 seq 5</div><div>20 60</div><div>20 60</div><div>15</div><div>20 25</div><div>20 30</div><div>20 45</div><div>20 40</div><div>20 45</div><div>20 45</div><div>20 45</div><div>20 45</div><div>UNB</div></div><div><div>DWK</div><div>UWK</div><div>To Bldston NW8011 seq 5</div><div>20 25</div><div>20 30</div><div>20 45</div><div>20 40</div><div>20 45</div><div>20 45</div><div>20 45</div><div>DNB</div></div></div>		<div>TCB</div> <div>Merseyrail SB (ML) DC: Sandhills</div> <div><div>NRN</div><div>CSR</div><div>017</div><div>40</div></div>
		4 44 *			UWK=Up West Kirby DWK=Down West Kirby
		4 70 *			
		5 04 *			
		5 16 *			
WALLASEY VILLAGE		5 48			Platform Lengths: Wallasey Village Up 129m (141 yards) Down 128m (140 yards)

LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
NW8015	002	Bidston East Jn. to New Brighton (New Brighton lines)	BEN	LNW North	07/10/06
Location	Mileage M Ch	Running lines & speed restrictions	Signalling & Remarks		
WALLASEY GROVE RD	5 73		<div>TCB</div> <div>Merseyrail SB (ML) DC: Sandhills</div> <div>NRN 017 CSR 40</div>		
	7 04 *		Platform Lengths: Wallasey Grove Rd Up: 127m (139 yards) Down: 127m (139 yards)		
NEW BRIGHTON	7 18		Platform Lengths: New Brighton Platform 1 Permissive BAY 120m (131 yards) Platform 2 Permissive BAY 126m (138 yards)		

LNW North Route Sectional Appendix Module LNWN)6

LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
NW8017	001	Canning Street North to Rock Ferry South Jn.	CCS1 CCS2	LNW North	07/10/06
Location		Mileage M Ch	Running lines & speed restrictions		Signalling & Remarks
					<div> <div>NRN</div> <div>CSR</div> </div> <div> <div>OT</div> <div>Canning Street North SB</div> <div>017</div> <div>40</div> </div>
Network Rail Boundary		15 40			
Canning Street North SB		15 29			
		15 26			
Haymarket Tunnel (127m/139yd)		15 00 *			
		14 64			
		to			
		14 58			
Rock Ferry North Jn		13 59			
					OT(S) applies on down goods and up goods between Canning Street North box and Rock Ferry (Merseyrail box)
					Down and up goods lines out of use.
					DC: Sandhills (Down & up Chester lines only)
					TCB Merseyrail SB(ML)
(ROCK FERRY)		(13 43)			
Rock Ferry South Jn.		13 30			



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SPECIAL WORKING ARRANGEMENTS

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NW8005- SANDHILLS JN. TO ORMSKIRK	49

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NW8001 (HUNTS CROSS WEST JN. TO SOUTHPORT)

From	To	Type of Train	Line(s)	Remarks
Sandhills Reversing Siding	Kirkdale Depot	Coaching stock	Down and up Southport/Down and up Ormskirk	Propelling of dead EMU's authorised
Sandhills Reversing Siding	Kirkdale Depot	Freight	Down and up Southport/Down and up Ormskirk	Propelling authorised for trains up to 70m (231 ft) in length with a brake van leading Dated: 07/10/06

NW8005 (SANDHILLS JN. TO ORMSKIRK)

From	To	Type of Train	Line(s)	Remarks
Kirkdale Depot	Sandhills Reversing Siding	Coaching stock	Up Ormskirk/Up Southport	Propelling of dead EMU's authorised
Kirkdale Depot	Sandhills Reversing Siding	Freight	Up Ormskirk/Up Southport	Propelling authorised for trains up to 70m (231 ft) in length with a brake van leading Dated: 07/10/06

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ROUTE CLEARANCE

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LNW NORTH**GENERAL NOTES**

Table D shows route clearance information for Network Rail London North Western (North) route controlled lines and is divided into five separate table as follows:

- D1 Diesel Multiple Units.
- D2 Electric Multiple Units.
- D3 Locomotive Hauled Coaching Stock, including HST.
- D4 Locomotives, including the route availability (RA) index of each route.
- D5 Freight Vehicles, including the RA index of each route and any authorities for heavy axle weight vehicles.

Tables D1 - D4

These tables consist of the list of lines as shown in Table A and a series of columns for each type of vehicle. The following codes are used to identify which vehicle types are permitted on each route:

Authority Code	Meaning
Y	The vehicle type is permitted without restriction.
N	The vehicle type is prohibited.
R*	The vehicle type is permitted subject to the restriction(s) shown in the Notes & Restrictions column.
E	Indicates that an electric traction unit may be hauled over a non-electrified line with pantograph(s) lowered.

Where authority is shown for passenger carrying vehicles to run on non-passenger lines, this does not mean that authority is given for loaded passenger trains to run.

Table D5

This table consists of the list of lines as shown in Table A, the RA index of each route, any general authorities for heavy axle weight vehicles, the gauge of the route and other route restrictions. (Temporary or vehicle specific heavy axle weight authorities are not shown.)

The gauge of the route is shown as one of the following:

- standard locomotive gauge indicated by a forward-slash symbol, (i.e. /),
- W6A (W6) – meaning clear to W6A Gauge,
- W7 – meaning clear to W6A Exception Gauge for 8ft. containers,
- W8 – meaning clear to W6A Exception Gauge for 8ft 6in containers,
- W9 – meaning clear to SB1C gauge.
- W10 – meaning clear for 9ft. 6in. high x2.5m. wide containers on selected wagons
- W12 – meaning clear to W12 composite swept envelope

Additional restrictions or clearances may also be shown as notes in the Notes & Restrictions column.

The 'Heavy Axle Weight Vehicles' column indicates whether a vehicle which exceeds the RA index of the route may be conveyed, and if so under what conditions:

Authority Code	Meaning
Y	There are no particular restrictions for vehicles that exceed the RA of the route, and form RT3973HAW can be produced on this basis. 25.5 tonne axle weight vehicles in use on the network as of April 1998 are not restricted. (Note that this information does not include vehicles which may have individual restrictions placed upon them.)
N	Vehicles that exceed the RA of the route must not run without the authority of the Territory Structures Assessment Engineer. If authority is given a vehicle specific form RT3973HAW can be produced.
R*	Vehicles which exceed the RA of the route can run subject to the particular restriction(s) identified, and form RT3973HAW can be produced on this basis. 25.5 tonne axle weight vehicles in use on the network as of April 1998 are not restricted. (Note that this information does not include vehicles which may have individual restrictions placed upon them.)
--	No request to run vehicles that exceed the RA of the route has previously been made and any request to do so must be referred to the Territory Structures Assessment Engineer. 25.5 tonne axle weight vehicles may be able to run following assessment.

Restricted Vehicles

Vehicles identified below can not run without reference to the Territory Structures Assessment Engineer, who will identify any restrictions that apply to that particular vehicle over a specified route in accordance with the Route Availability Group Standard:

- Coil Strip Wagon BN001A

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Table D1 - Route clearance of diesel multiple unit trains

To be read in conjunction with General Notes.

Class 221 trains

The sections of route indicated by the letter 'T' in the 'Route Availability Table' pages, indicate where Class 221 trains are permitted to operate with the Tilt system operational and TASS system configured to authorise tilt and supervise speed. Details of the lines where TASS Balises are provided are published in the Table A pages of this Appendix. Full details of clearances and restrictions are published in the relevant Network Rail Acceptance Panel (NRAP) certificates for Service Operation.

Line of route	Line of Route / Sector Description	DMU	14X	150	153	155	156	158	170	175	185	220 / 221	Notes
NW8001	Hunts Cross West Junction - Southport	R	N	N	N	N	N	N	N	N	N	N	R Prohibited Hunts Cross West Jn. - Sandhills.
NW8003	Paradise Junction - James Street (Stock Interchange/Holding line)	N	N	N	N	N	N	N	N	N	N	N	
NW8005	Sandhills Junction - Ormskirk	Y	N	N	N	N	N	N	N	N	N	N	
NW8007	Bootle Junction - Aintree Emergency G.F.	N	N	N	N	N	N	N	N	N	N	N	
NW8009	Walton Junction - Kirkby	Y	N	N	N	N	N	N	N	N	N	N	
NW8011	Mann Island Junction - West Kirby (via Loop)	R	N	N	N	N	N	N	N	N	N	N	R Prohibited Mann Island Jn. - Birkenhead North.
NW8013	Canning Street Junction - Hooton South Junction	R	R	R	N	N	N	N	N	N	N	N	R Prohibited Canning Street Jn. - Rock Ferry
NW8015	Bidston East Junction - New Brighton (New Brighton lines)	Y	N	N	N	N	N	N	N	N	N	N	
NW8017	Canning St. North - Rock Ferry South Jn.	N	N	N	N	N	N	N	N	N	N	N	

Table D2 - Route clearance of electric multiple unit trains

To be read in conjunction with General Notes.

Class 390 trains

The sections of route indicated by the letter 'T' in the 'Route Availability Table' pages, indicate where Class 390 trains are permitted to operate with the Tilt system operational and TASS system configured to authorise tilt and supervise speed. Details of the lines where TASS Balises are provided are published in the Table A pages of this Appendix. Full details of clearances and restrictions are published in the relevant Network Rail Acceptance Panel (NRAP) certificates for Service Operation.

Line of route	Line of Route / Sector Description	312	317	321 / 322	323	325	350	390	507 / 508	Notes
NW8001	Hunts Cross West Junction - Southport	N	N	N	N	N	N	N	Y	
NW8003	Paradise Junction - James Street (Stock Interchange/Holding line)	N	N	N	N	N	N	N	Y	
NW8005	Sandhills Junction - Ormskirk	N	N	N	N	N	N	N	Y	
NW8007	Bootle Junction - Aintree Emergency G.F.	N	N	N	N	N	N	N	N	
NW8009	Walton Junction - Kirkby	N	N	N	N	N	N	N	Y	
NW8011	Mann Island Junction - West Kirby (via Loop)	N	N	N	N	N	N	N	Y	
NW8013	Canning Street Junction - Hooton South Junction	N	N	N	N	R	N	N	Y	R Permitted loco-hauled Rock Ferry - Hooton South Jn. only.
NW8015	Bidston East Junction - New Brighton (New Brighton lines)	N	N	N	N	N	N	N	Y	
NW8017	Canning St. North - Rock Ferry South Jn.	N	N	N	N	N	N	N	N	

Table D3 - Route clearance of coaching stock

To be read in conjunction with General Notes.

Line of Route	Line of Route / Sector Description	MK I	MK II	MK III	MK IV	253/254 HST	Notes
NW8001	Hunts Cross West Junction - Southport	R	R	N	N	N	R Prohibited Hunts Cross West Jn. - Sandhills (exclusive).
NW8003	Paradise Junction - James Street (Stock Interchange/Holding line)	N	N	N	N	N	
NW8005	Sandhills Junction - Ormskirk	Y	Y	N	N	N	
NW8007	Bootle Junction - Aintree Emergency G.F.	N	N	N	N	N	
NW8009	Walton Junction - Kirkby	Y	Y	N	N	N	
NW8011	Mann Island Junction - West Kirby (via Loop)	R	R	N	N	N	R Prohibited Mann Island Jn. - Birkenhead Park.
NW8013	Canning Street Junction - Hooton South Junction	R	R	N	N	N	R Prohibited Canning Street Jn. - Rock Ferry.
NW8015	Bidston East Junction - New Brighton (New Brighton lines)	Y	Y	N	N	N	
NW8017	Canning St. North - Rock Ferry South Jn.	N	N	N	N	N	

Table D4A - Route clearance of Diesel locomotives Classes 08 to 33

To be read in conjunction with General Notes.

Line of Route	Line of Route / Sector Description	RA	08/09	20	20/3	31/1	31/4/5	33	Notes
NW8001	Hunts Cross West Junction - Southport	8	R	R	R	R	R	R	R Not permitted on underground section 0m 59ch - 36m 17ch except for Class 08, which is permitted if the DC current is isolated. Br.11 and Br.12 – light locomotives and loco-hauled trains must not pass on these bridges (2m 71ch – 2m 76ch).
NW8003	Paradise Junction - James Street (Stock Interchange/Holding line)	8	R	N	N	N	N	N	R Permitted only if the DC current is isolated.
NW8005	Sandhills Junction - Ormskirk	8 R	Y	Y	Y	Y	Y	Y	R This line is RA7 between Sandhills Jn. and Walton Jn.
NW8007	Bootle Junction - Aintree Emergency G.F.	7 R	Y	Y	Y	Y	Y	Y	R This line is RA8 at Bootle Jn. - 3m 52ch.
NW8009	Walton Junction - Kirkby	8	Y	Y	Y	Y	Y	Y	
NW8011	Mann Island Junction - West Kirby (via Loop)	8	R1	R2	R2	R2	R2	R2	R1 Permitted only if the DC current is isolated. R2 Not permitted Mann Island Jn. - 2m 69ch (east of Birkenhead Park).
NW8013	Canning Street Junction - Hooton South Junction	8	R1	R2	R2	R2	R2	R2	R1 Permitted only if the DC current is isolated. R2 Not permitted Canning St. Jn. - 2m 24ch (east of Birkenhead Central).
NW8015	Bidston East Junction - New Brighton (New Brighton lines)	6	R	R	R	R	R	R	R Br.19 – light locomotives and loco-hauled trains must not pass on the bridge (6m 50ch – 6m 52ch)
NW8017	Canning St. North - Rock Ferry South Jn.	8	Y	Y	Y	Y	Y	Y	

Table D4B - Route clearance of locomotives Classes 37 to 59

To be read in conjunction with General Notes.

Line of Route	Line of Route / Sector Description	RA	37/ 0/3/4 /5	37/ 7/9	47/ 0/3/7 /9	47/ 4/6	55	56	57	58	59/0/ 1/2	Notes
NW8001	Hunts Cross West Junction - Southport	8	R1	R1	R1	R1	N	R1	R1 R2	R1	R1	R1 Not permitted on underground section (0m 59ch - 36m 17ch). Br.11 and Br.12 – light locomotives and loco-hauled trains must not pass on these bridges (2m 71ch – 2m 76ch) R2 Class 57/3 only authorised.
NW8003	Paradise Junction - James Street (Stock Interchange / Holding line)	8	N	N	N	N	N	N	N	N	N	
NW8005	Sandhills Jn. - Walton Jn.	7	Y	Y	Y	Y	N	Y	R	Y	Y	R Class 57/3 only authorised.
NW8005	Walton Jn. - Ormskirk	8	Y	Y	Y	Y	N	Y	R	Y	Y	R Class 57/3 only authorised.
NW8007	Bootle Junction - Aintree Emergency G.F.	7 R	Y	Y	Y	Y	Y	Y	Y	Y	Y	R This line is RA8 at Bootle Jn. - 3m 52ch.
NW8009	Walton Junction - Kirkby	8	Y	Y	Y	Y	N	Y	R	Y	Y	R Class 57/3 only permitted.
NW8011	Mann Island Junction - West Kirby (via Loop)	8	R1	R1	R1	R1	N	R1	R1 R2	R1	R1	R1 Not permitted Mann Island Jn. - 2m 69ch (east of Birkenhead Park). R2 Class 57/3 only permitted.
NW8013	Canning Street Junction - Hooton South Junction	8	R1	R1	R1	R1	N	R1	R1 R2	R1	R1	R1 Not permitted Canning St. Jn. - 2m 24ch (east of Birkenhead Central). R2 Class 57/3 only permitted.

Table D4B - Route clearance of locomotives Classes 37 to 59 – Continued

To be read in conjunction with General Notes.

Line of Route	Line of Route / Sector Description	RA	37/ 0/3/4 /5	37/ 7/9	47/ 0/3/7 /9	47/ 4/6	55	56	57	58	59/0/ 1/2	Notes
NW8015	Bidston East Junction - New Brighton (New Brighton lines)	6	R1	N	R1	N	N	N	R1 R2	N	N	R1 Br.19 – light locomotives and loco-hauled trains must not pass on the bridge (6m 50ch – 6m 52ch) R2 Class 57/3 only permitted.
NW8017	Canning St. North - Rock Ferry South Jn.	8	Y	Y	Y	Y	Y	Y	Y	Y	Y	

Table D4C - Route clearance of locomotives Classes 60 to 92

To be read in conjunction with General Notes.

Line of Route	Line of Route / Sector Description	RA	60	66	67	73	86	87	90	91	92	Notes
NW8001	Hunts Cross West Junction - Southport	8	R	R	R	Y	N	N	N	N	N	R Not permitted on underground section (0m 59ch - 36m 17ch). Br.11 & Br.12 - light locomotives and loco-hauled trains must not pass on the bridges (2m 71ch - 2m 76ch)
NW8003	Paradise Junction - James Street (Stock Interchange / Holding line)	8	N	N	N	Y	N	N	N	N	N	
NW8005	Sandhills Junction - Walton Jn	7	N	Y	N	Y	N	N	N	N	N	
NW8005	Walton Jn. - Ormskirk	8	Y	Y	Y	Y	N	N	N	N	N	
NW8007	Bootle Junction - Aintree Emergency G.F.	7 R1	R2	Y	R3	Y	N	N	N	N	N	R1 This line is RA8 between Bootle Jn. and 3m 52ch. R2 10mph over Br.1 and Br.16 (34m 00ch - 34m 20ch). R3 Permitted Bootle Jn. - 3m 52ch only
NW8009	Walton Junction - Kirkby	8	Y	Y	Y	Y	N	N	N	N	N	
NW8011	Mann Island Junction - West Kirby (via Loop)	8	R	R	R	Y	N	N	N	N	N	R Not permitted Mann Island Jn. - 2m 69ch (east of Birkenhead Park).
NW8013	Canning Street Junction - Hooton South Junction	8	R	R	R	Y	N	N	N	N	N	R Not permitted Canning St. Jn. - 2m 24ch (east of Birkenhead Central).
NW8015	Bidston East Junction - New Brighton (New Brighton lines)	6	N	R	N	R	N	N	N	N	N	R Br.19 - light locomotives and loco-hauled trains must not pass on the bridge (6m 50ch - 6m 52ch).
NW8017	Canning St. North - Rock Ferry South Jn.	8	Y	Y	Y	Y	N	N	N	N	N	

Table D5 - Route clearance of freight vehicles

To be read in conjunction with General Notes.

Line of Route	Line of Route / Sector Description	RA	Gauge of Route	Heavy Axle Weight Vehicles	Notes
NW8001	Hunts Cross West Jn. - Southport	8	/	--	ELR: HXS1 – HXS2 – HXS3: vehicles which exceed the RA of the line may be permitted for engineering train purposes only, subject to special dispensation being granted by the Territory Structures Assessment Engineer.
NW8003	Paradise Jn. - James Street (Stock Interchange/Holding line)	8	/	Y	
NW8005	Sandhills Jn. – Ormskirk	8 R	/	--	R This line is RA7 between Sandhills Jn. and Walton Jn.
NW8007	Bootle Jn. - Aintree Emergency G.F.	7 R	/	Y	R This line is RA8 at Bootle Jn. - 3m 52ch.
NW8009	Walton Jn. – Kirkby	8	/	Y	
NW8011	Mann Island Jn. - West Kirby (via Loop)	8	/	Y	
NW8013	Canning St Jn. - Hooton South Jn.	8	/	Y	
NW8015	Bidston East Jn. – New Brighton (New Brighton lines)	6	/	R	R BEN Br.19 (6m 50ch - 6m 52ch) vehicles which exceed the RA of the line must not pass other loco hauled trains on the bridge.
NW8017	Canning Street North - Rock Ferry South Jn.	8	/	Y	

LOCAL INSTRUCTIONS

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NW8001 - HUNTS CROSS WEST JN. TO SOUTHPORT LIVERPOOL SOUTH PARKWAY

Down direction trains which stop at Liverpool South Parkway platform 6, must not depart from the platform if signal HC.99 is at Danger. In this circumstance, the driver should contact the signaller via the CSR system or by using the telephone provided.

Dated: 07/10/06

NW8001 - HUNTS CROSS WEST JN. TO SOUTHPORT LIVERPOOL SOUTH PARKWAY To LIVERPOOL CENTRAL

Rule Book Module P1. When single line working is introduced over the up Southport line between Liverpool Central South Junction and Liverpool South Parkway, a handsignaller must be provided opposite signal ML.21. References in *Rule Book Module P1, Section 3, Clause 3.5.a), Section 6, Clause 6.2.a) and Section 9, Clause 9.2* to the signal protecting the crossover where trains travelling in the wrong direction return to the proper line, should be read as meaning signal ML.21.

Dated: 07/10/06

NW8001 - HUNTS CROSS WEST JN. TO SOUTHPORT ST. MICHAEL'S To LIVERPOOL CENTRAL

Rule Book Module S5, Part B, Section 1, Clause 1.1. If a train is detained at signal HC.105 and the telephone at the signal has failed and CSR is not available, the driver must try to speak to the signaller from the telephone at St. Michael's station.

If a train is detained at signal HC.106 and the telephone at the signal has failed and CSR is not available, the driver must pass the signal at danger in accordance with the arrangements shown in *Rule Book Module S5, Part B, Section 2* but must stop at the entrance to Dingle Tunnel and try to speak to the signaller from the telephone at the entrance to the tunnel. If it is still not possible to communicate with the signaller, the driver must ensure that Dingle Tunnel is clear before continuing the movement in accordance with rule book requirements.

Dated: 07/10/06

NW8001 - HUNTS CROSS WEST JN. TO SOUTHPORT LIVERPOOL CENTRAL

Drivers of 6-car trains must bring their trains to a stand with the driving cab adjacent to the 6-car 'Stop' board.

Dated: 07/10/06

NW8001 - HUNTS CROSS WEST JN. TO SOUTHPORT SANDHILLS

Stabling in the neck. The driver of an on-track machine which is to be stabled in the neck at the Liverpool end of the station, must advise the signaller at Merseyrail IECC, by telephone, when the machine is inside clear of signal ML.1022.

Dated: 07/10/06

NW8001 - HUNTS CROSS WEST JN. TO SOUTHPORT FRESHFIELD To AINSDALE

Wheel Impact Load Detector (Wheelchex). This equipment analyses the dynamic wheel loads produced by each passing train. The data obtained may result in an alarm being received in Network Rail control, Merseyrail. A wheelchex system is installed on the Down Southport line between Freshfield and Ainsdale at 14 miles 18 chains. If an alarm is received from the detector, the train will be stopped by signals and the Driver may be instructed by the Signaller to proceed at reduced speed to a location where the train can be taken out of service.

Dated: 07/10/06

NW8005 - SANDHILLS JN. TO ORMSKIRK**Aintree Emergency G.F.**

Only engineers trains may use the connection, worked from Aintree EGF, between the Bootle Junction to Aintree siding single line and the down Ormskirk line. A possession of the single line and the down Ormskirk line must also be taken before the connection can be used.

When not in use, the key to the security gate between the EGF and the down Ormskirk line is kept in Merseyrail IECC. The PICOP must collect the key personally when the connection is to be used. The PICOP must ensure that the gate is secured across the connection before giving up the possession and returning the key to Merseyrail IECC. Each time the key is taken from and returned to Merseyrail IECC, the PICOP must countersign the signaller's entry in the Train Register/Occurrence Book.

Dated: 07/10/06**NW8007 - BOOTLE JN. TO AINTREE EMERGENCY G.F.****Bootle Junction To Aintree Emergency GF**

Aintree West level crossing. Trains must stop at the 'Stop' boards located 23 metres (25 yards) from the crossing. Drivers must sound the horn and ensure that the crossing is clear before proceeding.

Dated: 07/10/06**NW8011 - MANN ISLAND JN. TO WEST KIRBY (VIA LOOP)****JAMES STREET**

When a train is stabled in the stabling siding, all handbrakes must be applied and scotches must be placed under the wheels on the side of the train away from the conductor rail. When not in use, the scotches are kept in the manhole adjacent to the telephone at the station end of the siding.

Dated: 07/10/06**NW8011 - MANN ISLAND JN. TO WEST KIRBY (VIA LOOP)****CONWAY PARK**

Working Instructions for D.C. Electrified Lines In The Liverpool Area, Section F. All instructions applicable to the Mersey section must be applied through Conway Park station.

Dated: 07/10/06**NW8011 - MANN ISLAND JN. TO WEST KIRBY (VIA LOOP)****BIRKENHEAD NORTH To Bidston East Jn**

Birkenhead North TMD depot. The signaller at Merseyrail IECC will advise the person in charge (PIC) at Birkenhead North depot shunters cabin of the description of a train which requires to enter the 'arrival and departure' line, washer road or 'up & down' through siding. The PIC must operate the appropriate slot control to the 'Off' position provided no conflicting movement is being made.

The PIC must advise the signaller at Merseyrail IECC of the description of a train which requires to leave the depot.

The washer road must only be used by empty passenger-carrying coaching stock trains, requiring to go through the wash plant. All other trains must be routed via the 'up and down' through siding.

Wallasey Bridge Road level crossing. The person in charge (PIC) at Birkenhead North TMD depot shunters cabin must be asked for authority for a down train to approach Wallasey Bridge Road LC. This authority must not be given unless the PIC can meet the train on its arrival at the crossing. After giving authority for a down train to approach, or when an up train is ready to proceed to the docks, the PIC must go to the crossing and, when the train approaches, must close the gates to road traffic. After the train has passed over the crossing, the PIC must reopen the gates to road traffic. The Goods line to the docks is currently out of use. The Goods line to the docks is currently out of use.

Dated: 07/10/06

NW8013 - CANNING STREET JN. TO HOOTON SOUTH JN. BIRKENHEAD CENTRAL

Rule Book Module S2, Section 3, Clause 3.1. During engineering operations, passenger trains may start in the down direction from the up platform at Birkenhead Central station on the authority of position light signal ML.1759. A person in charge of platform must be appointed to ensure that signal ML.1759 is showing a proceed aspect before giving the guard authority to start the train.

Dated: 07/10/06

NW8017 - CANNING STREET NORTH TO ROCK FERRY SOUTH JN. Canning Street North SB

Birkenhead Docks

Regulations for working over Mersey Docks & Harbour Company lines. Traincrews must keep a sharp lookout when propelling vehicles.

All trains or vehicles must exhibit a white light in front and a red light in rear between sunset and sunrise and during fog or falling snow.

Trains of vehicles must not stand foul of any bridge or level crossing or the approach to any bridge or level crossing, except if necessary for safety.

Trains arriving at Birkenhead going to the various depots must be worked with the locomotive in front until they reach the depot, when it may be placed at the rear to dispose of the train, which work will be classified as shunting operations.

During shunting operations, the shunter must always be in a position to see that the line is clear in order to give effective warning to pedestrians and others, and to give signals to the driver.

Vehicles may be propelled on the MD&H Company's Estate from point to point, in which case the shunter must ride in a runner or other vehicle in front of the train in order to carry out the instructions in the previous paragraph. This will not apply where vehicles are shunted from the main line into a siding, nor when disposing of trains at depots, as in these cases the shunters must be on the ground. Each shunter must carry a whistle or shunting horn and the standard shunting codes must be used.

Drivers must stop short of each road crossing on the MD&H Company's Estate and not proceed until the driver considers it is safe to do so.

Dated: 07/10/06

NW8017 - CANNING STREET NORTH TO ROCK FERRY SOUTH JN. Canning Street North SB To ROCK FERRY

The train staff for the section of line between Canning Street North and Rock Ferry is kept in the Area Operations Manager's office at Mercury Court, Liverpool. No movement can be made on to the down or up Canning Street line at Canning Street North or Rock Ferry without the authority of the Network Rail Area Operations Manager, Liverpool.

Dated: 07/10/06

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