

Thames Valley Signalling Centre
Reading Station Area
Redevelopment
Stage F

Version 1 – 15/12/12



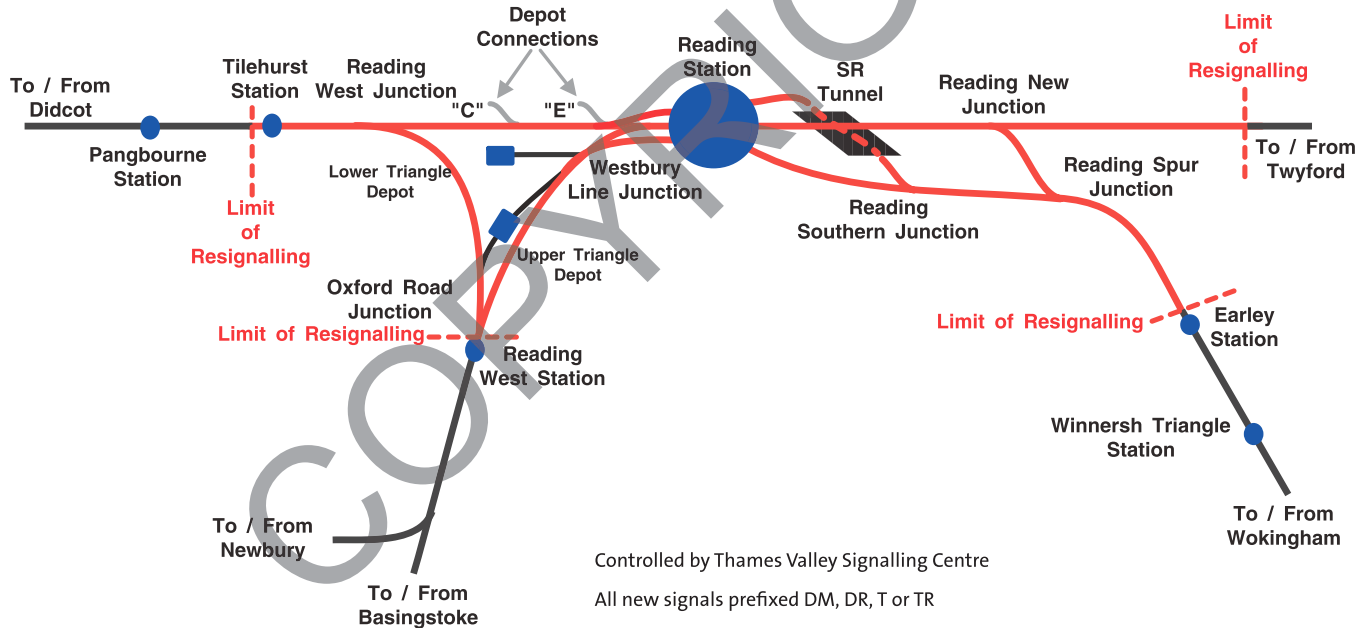


Thames Valley Signalling Centre Reading Station Area Redevelopment Stage F

CSR	CSR	CSR	CSR	NRN	NRN	GSM-R
05	06	11	51	039	091	

■ Limits of Scheme

- GW 103 – Pangbourne - Twyford
- GW 500 – Westbury Line Junction - Reading West
- GW 220 – Reading West Junction - Oxford Road Junction
- GW 190 – Reading New Junction - Reading Spur Junction
- SW 210 – Reading Southern Platforms - Winnersh Triangle



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Maps and aide memoire

These maps, along with the aide memoire, have been designed to give you the information required to work over the newly signalled area. Signals provided with route or theatre box indicators have associated legends giving a clear indication of what can be displayed and the routes that can be taken. Important additional information has been included at certain locations to identify risks and understanding.

If you have any difficulty understanding any changes, please ask your Manager

Contact Numbers for Thames Valley Signalling Centre

Shift Signalling Manager

External 0118 908 3205 / 01235 759298
Internal 078 3204 / 3205 / 3357

Twyford Workstation

Twyford Area (Waltham to Kennet Bridge Junction exclusive) including Reading Southern Region platforms

External 0118 908 3201 / 3229
Internal 078 3201 / 3229

Reading Workstation Reading Station Area

External 0118 908 3245 / 3360
Internal 078 3245 / 3360

West Junction Workstation

Reading West Junction to Cholsey and Oxford Road Junction (incl.) to Southcote Junction (incl.)

External 0118 908 3221 / 3230
Internal 078 3221 / 3230

Introduction

This Easter (2013) Network Rail is making major changes at and around Reading Station as part of the Reading Station infrastructure works which is programmed for completion in 2015. Works are being facilitated for the building of an elevated railway with further enhancements taking place between Reading Station and Scours Lane:

The key changes include

Reading Station

- Closure and removal of the existing transfer bridge
- Platforms 3 & 11 temporarily taken out of use
- Introduction of new platforms 12-15 with full Permissive passenger use
- CD/RA equipment provided for dispatch of DOO services on platforms 12-15
- New Northern Entrance
- New Transfer Deck
- New Western Gateline
- New station offices and control room
- New ticket office
- New pedestrian subway
- New Northern bus interchange



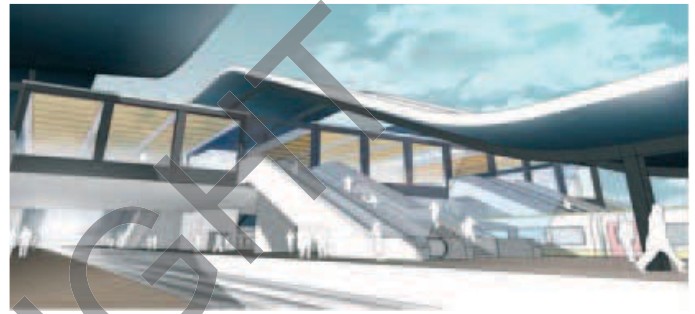
Overview of Reading Station



Northern Entrance

Infrastructure Changes

- Kennet Bridge Goods Loop is converted to a Passenger Loop
- A new 'Kennet Bridge Junction'
- Opening of the Southern Line Tunnel giving access to and from new platforms and the Southern Lines
- Introduction of axle counters
- Reading Up and Down Goods Lines (Receptions) removed
- New Relief Lines take the alignment of the Old Goods Lines
- New Main Lines take the alignment of the Old Relief Lines
- A new turn back signal (T1760) is provided on the Down Relief at Tilehurst Station



Platform Access to Transfer Deck

Reading Traincare Depot

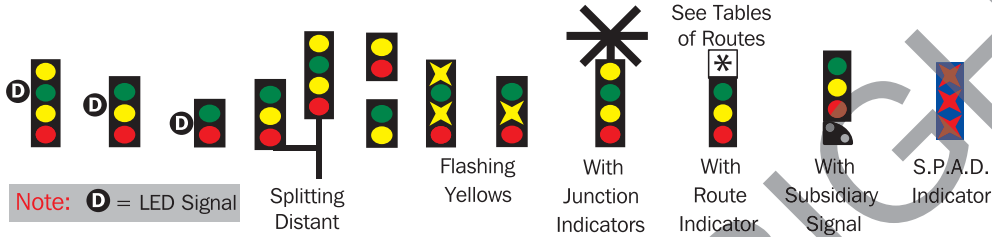
- A new non-PTS walking route provided
- Two connections to the depot known as 'C' & 'E'
- Access via Up Relief Line
- A co-acting signal is provided at the departing signal from the new Traincare Depot Connection 'E' (T1708CA)



Reading Traincare Depot

Legend

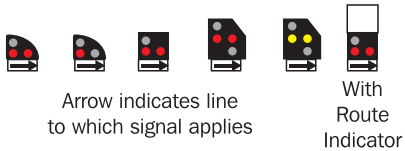
Colour Light Signals



Semaphore Signals



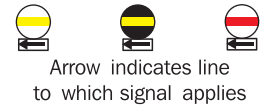
Ground Position Light Signals



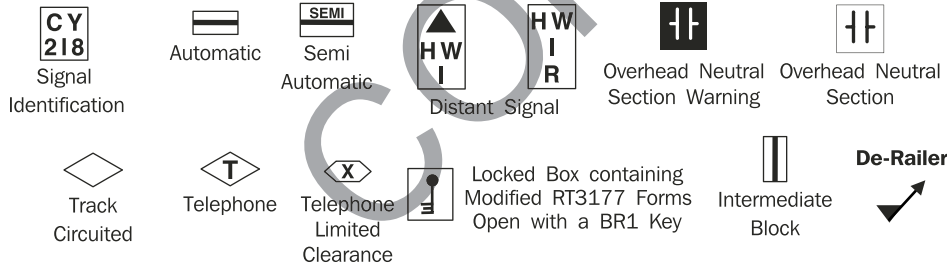
Banner Repeaters



Shunting Signals



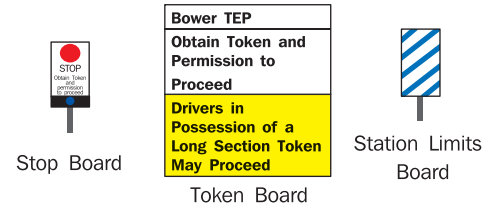
Signal Plates



Limit of Shunt Indicators

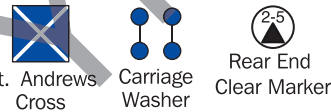
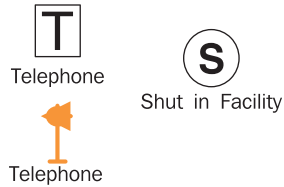
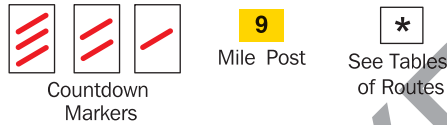
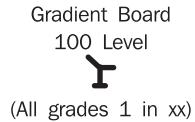
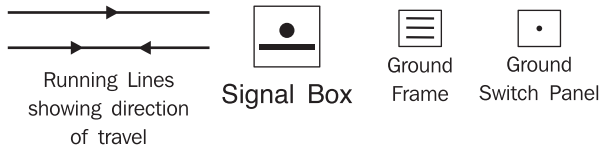


Radio Electric Token Block Signals

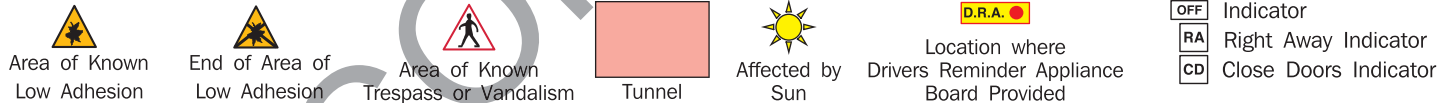
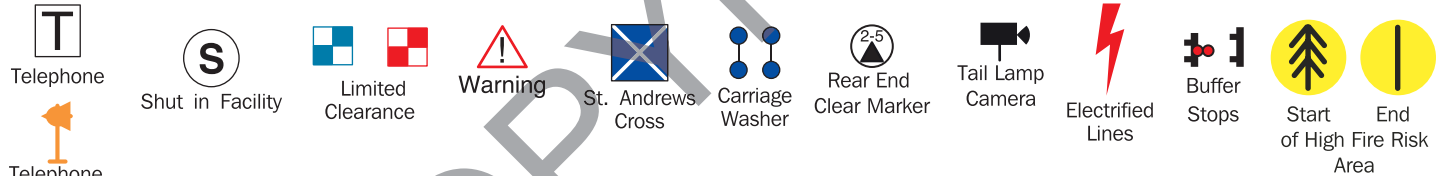
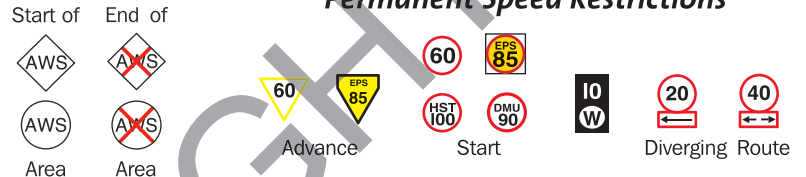


Legend

General Information



Permanent Speed Restrictions



TCB / Axle Counters
Thames Valley Signalling
Centre (T) (TR)
DC: Eastleigh

UR Up Relief
DR Down Relief
URL Up Relief Loop
DRL Down Relief Loop

Level 500
Relief Lines

500 Level
Relief Lines

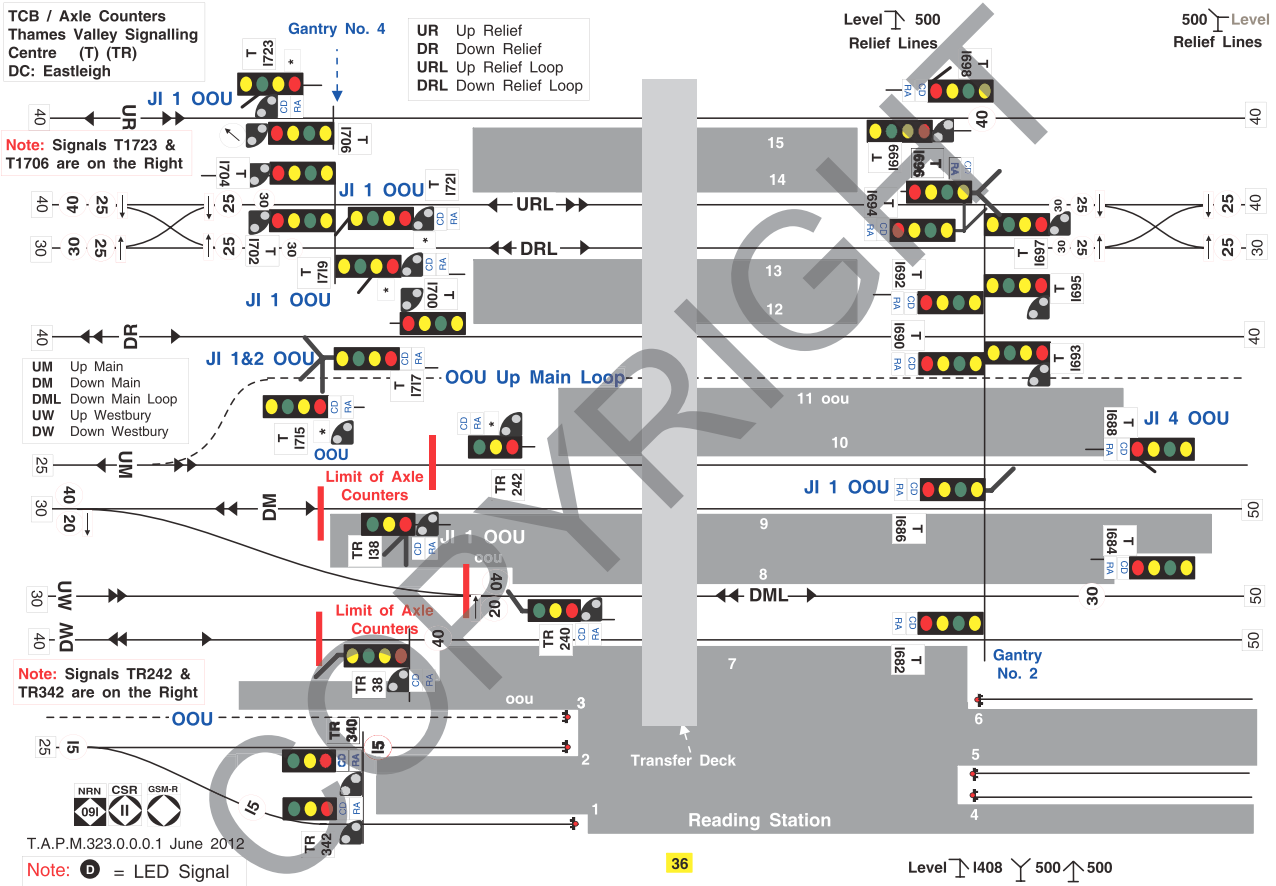
Note: Signals T1723 & T1706 are on the Right

Note: Signals TR242 & TR342 are on the Right

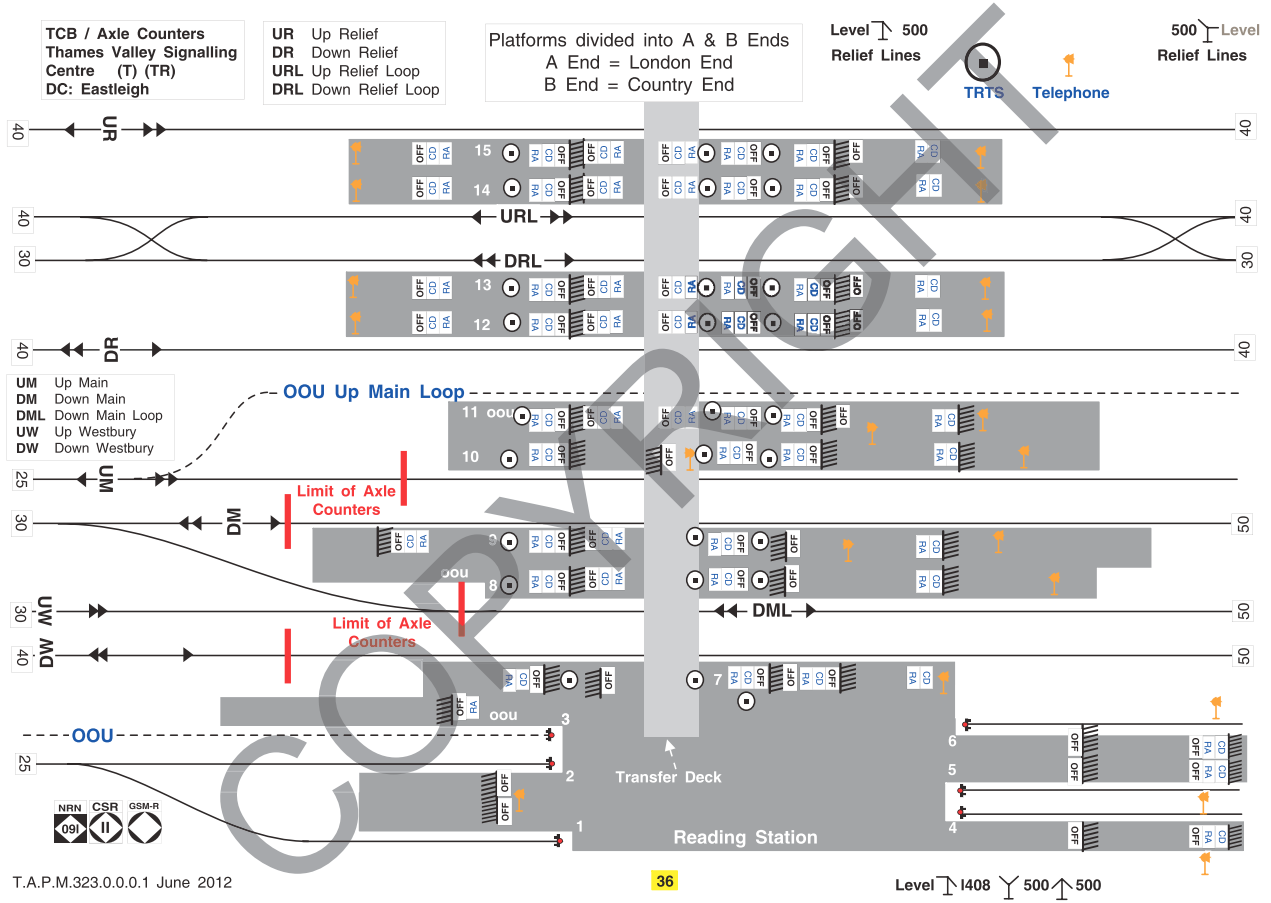


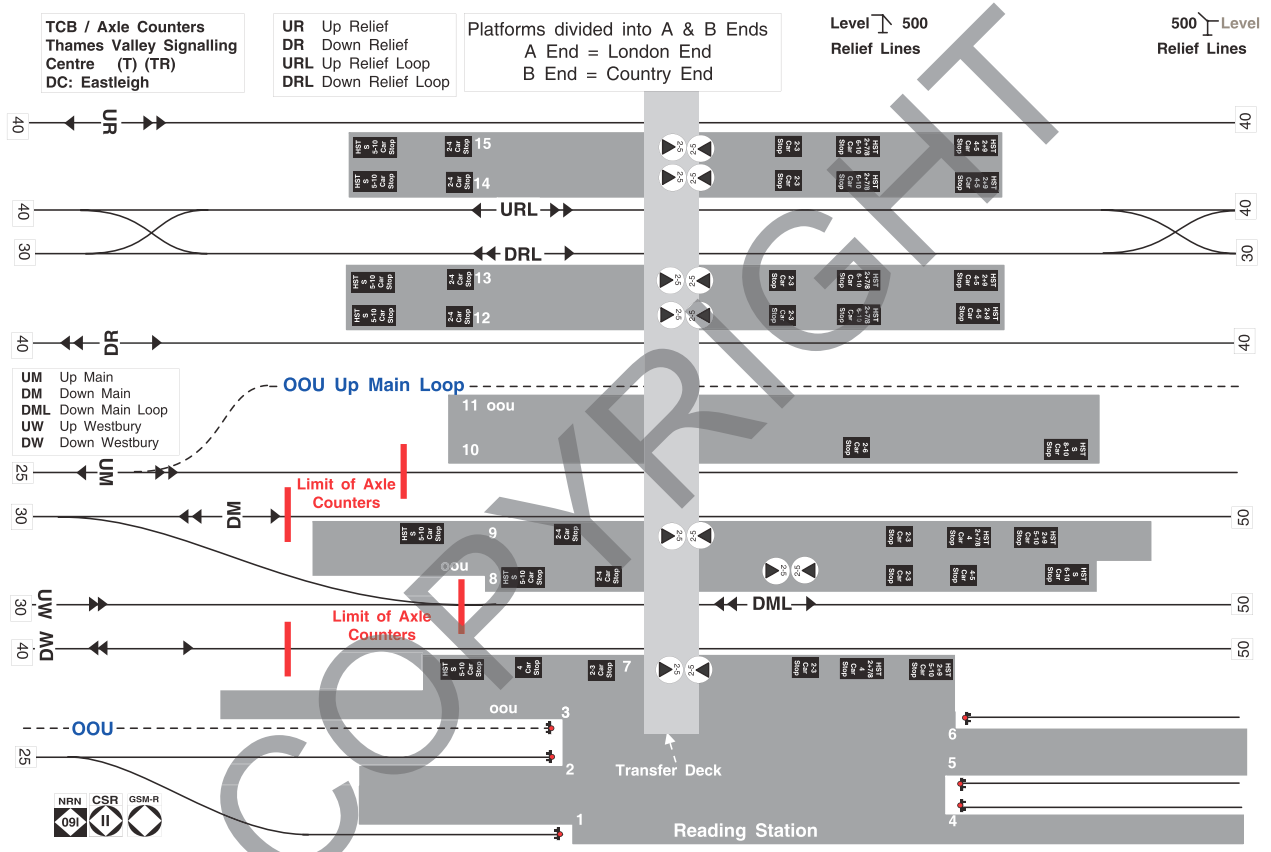
T.A.P.M.323.0.0.1 June 2012

Note: LED = LED Signal



36





T.A.P.M.323.0.0.0.1 December 2012

36

Level 1408 Level 500 Level 500

TCB / Axle Counters
Thames Valley Signalling
Centre (T)
DC: Eastleigh



US Up Southern
DS Down Southern

Note: **D** = LED Signal

UB 1403
Vastern Road

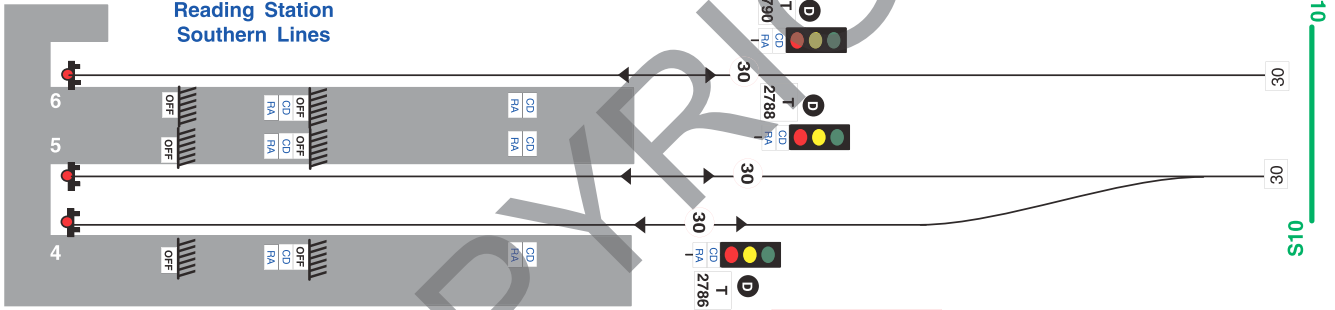
Level 1408

500 500

500 82


82 68

Reading Station Southern Lines



Note: Signal T2786
is on the Right

US Up Southern
DS Down Southern

Note:  = LED Signal

TCB / Axle Counters
Thames Valley Signalling
Centre (T)
DC: Eastleigh



68 / 91

91 / 70

70 / 485

S10
30
30
US
DS
S10

S11
30
40
30
50
11S

To / From
Reading Low
Level



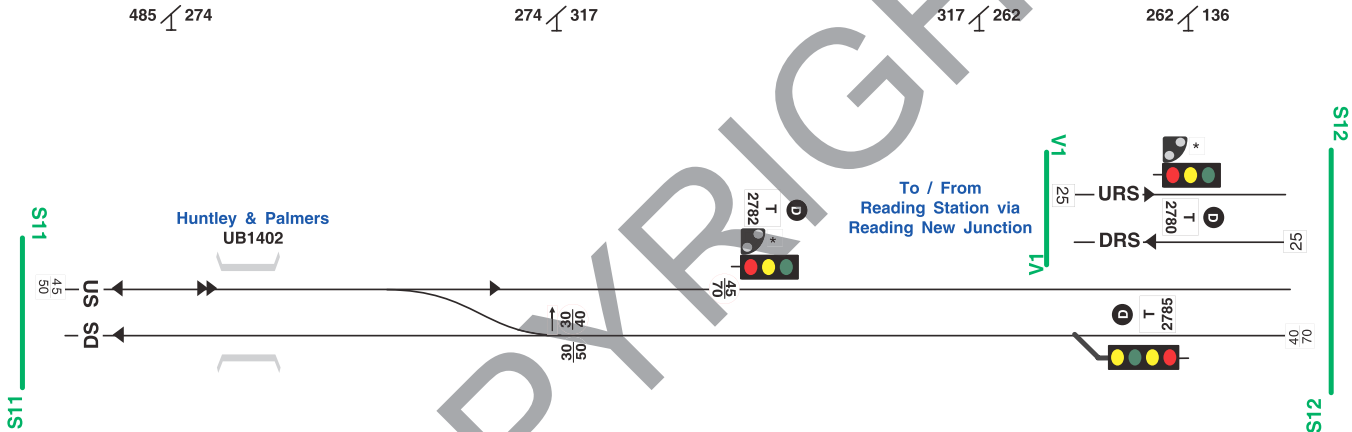
Reading Southern Junction

COPYRIGHT


- US** Up Southern
- DS** Down Southern
- URS** Up Reading Spur
- DRS** Down Reading Spur

Note: **D** = LED Signal

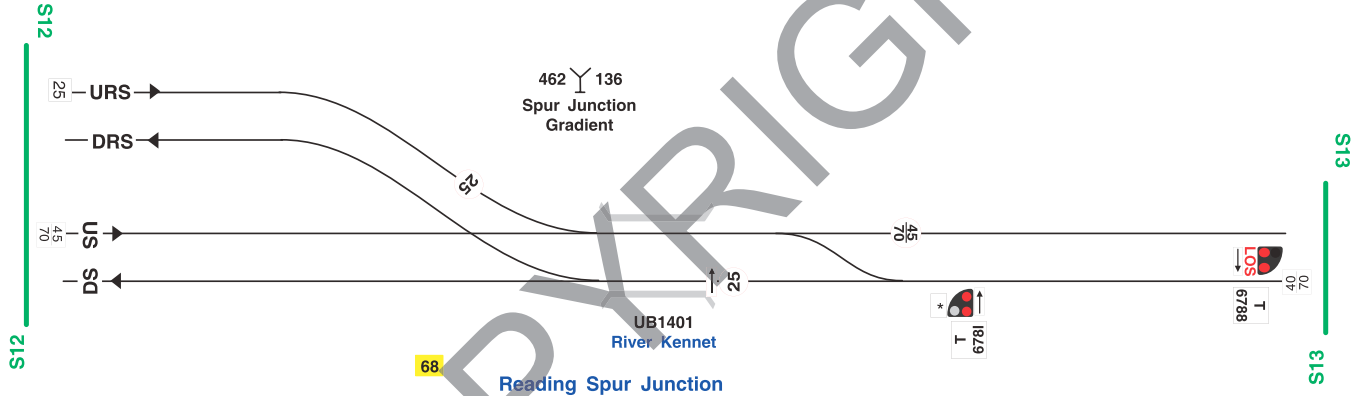
T.A.P.M.323.0.0.0.1 December 2012
TCB / Axle Counters
Thames Valley Signalling
 Centre (T)
 DC: Eastleigh



- US** Up Southern
- DS** Down Southern
- URS** Up Reading Spur
- DRS** Down Reading Spur

Note:  = LED Signal

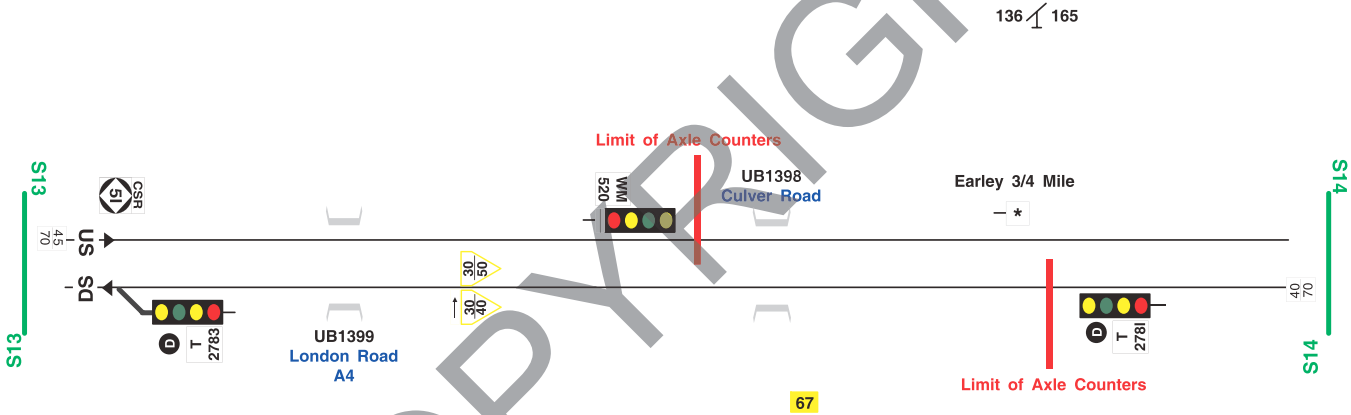
TCB / Axle Counters
Thames Valley Signalling
 Centre (T)
 DC: Eastleigh



US Up Southern
DS Down Southern

Note: **D** = LED Signal

TCB
Thames Valley Signalling Centre (T)
Wokingham SB (WMM)
DC: Eastleigh



S13
45
70

S14
40
70

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US Up Southern
DS Down Southern

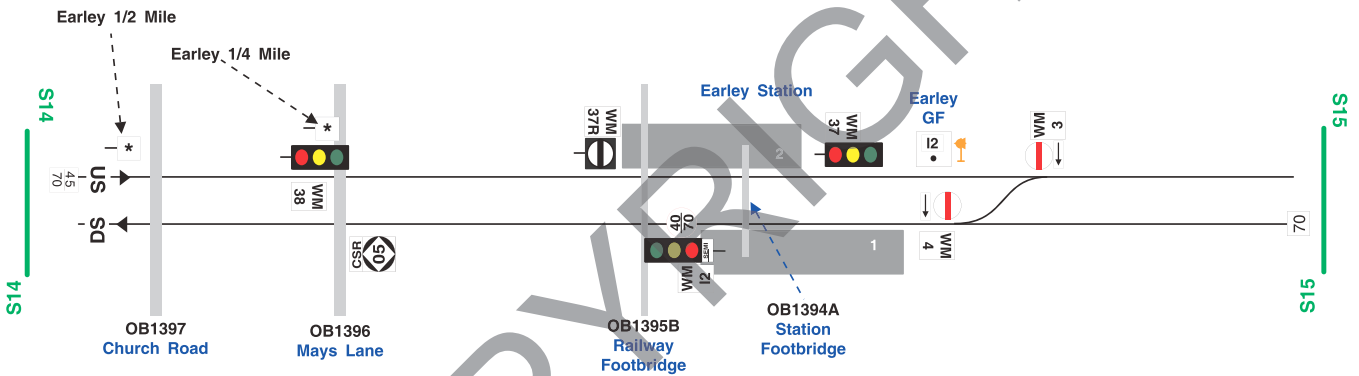
Note:  = LED Signal

TCB
Wokingham SB
DC: Eastleigh

(WM)



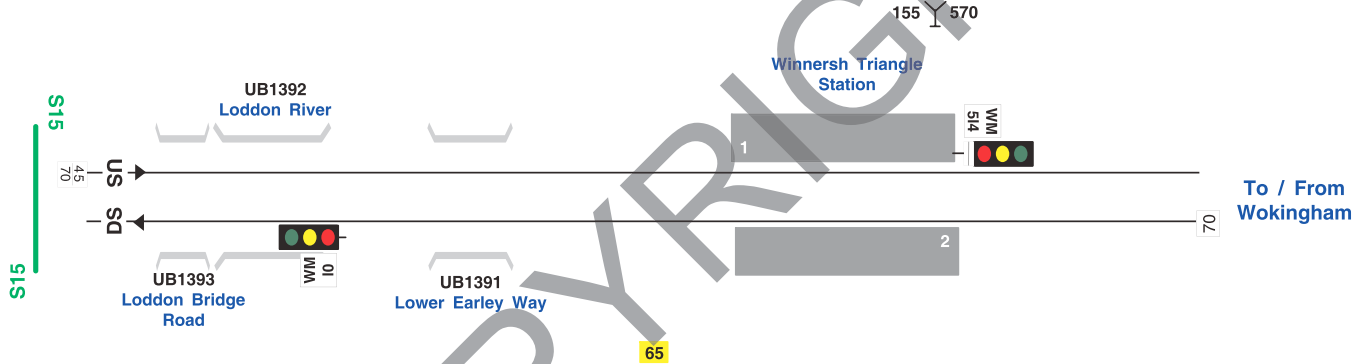
165  155



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US Up Southern
DS Down Southern

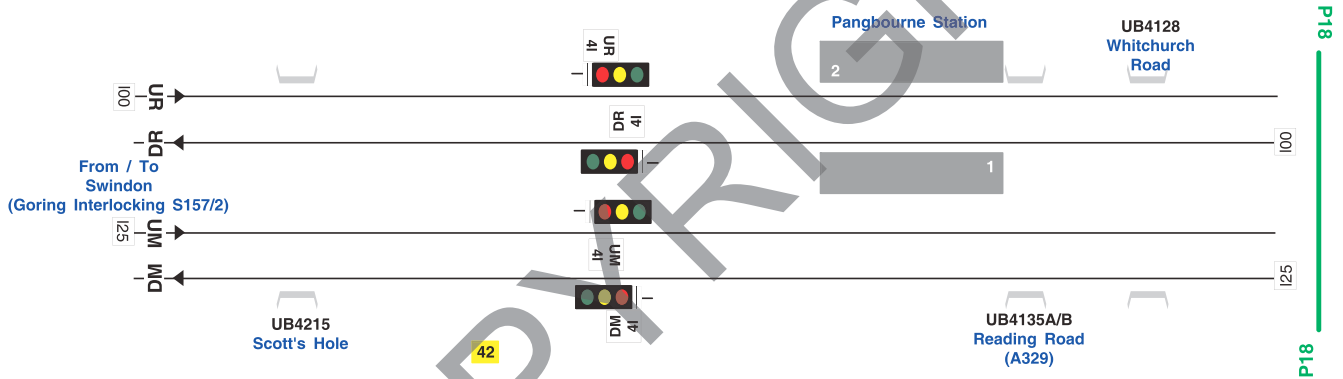
TCB	(WM)	NRN	CSR
Wokingham SB		039	51
DC: Eastleigh			



UR	Up Relief
DR	Down Relief
UM	Up Main
DM	Down Main

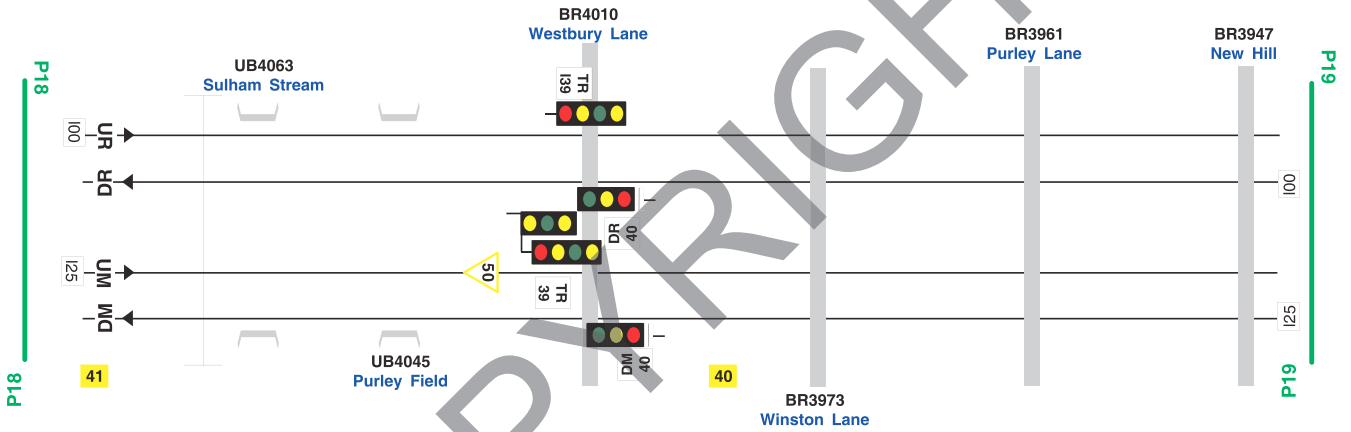
TCB
Thames Valley Signalling Centre (DM) (UM)
(DR) (UR)

Reading West Workstation



UR	Up Relief
DR	Down Relief
UM	Up Main
DM	Down Main

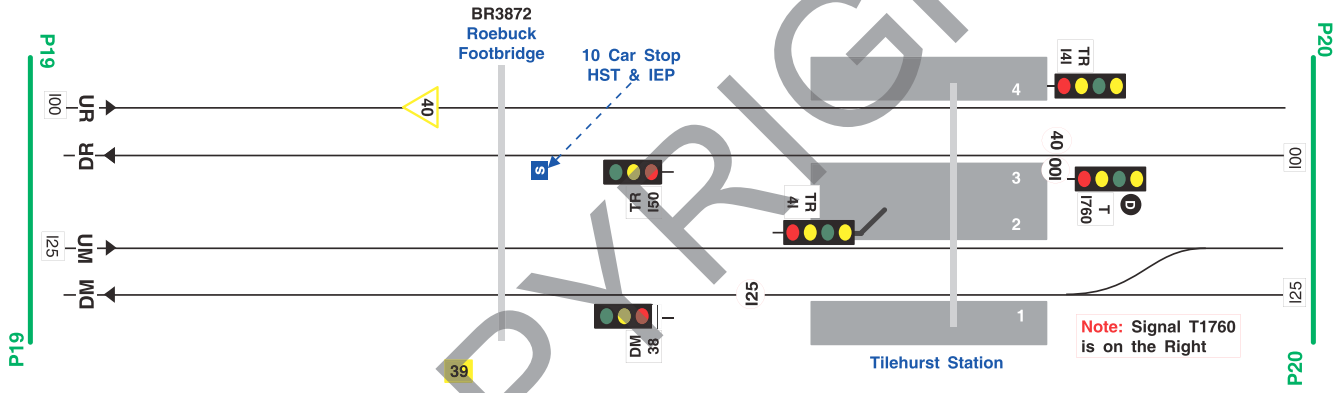
TCB
 Thames Valley Signalling Centre (DM)(DR)(TR)
 Reading West Workstation



UR	Up Relief
DR	Down Relief
UM	Up Main
DM	Down Main

Note: **D** = LED Signal

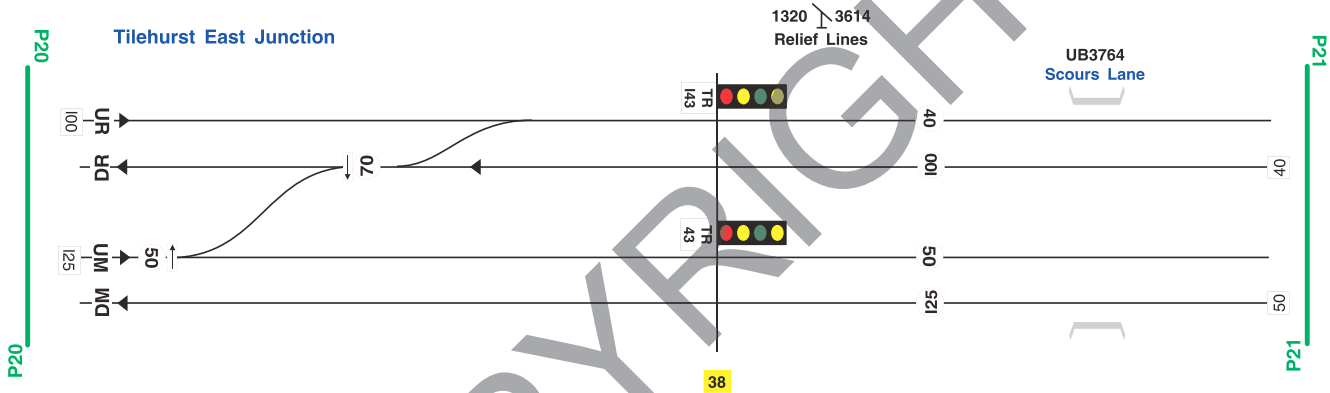
TCB
Thames Valley Signalling Centre (DM) (T)(TR)
Reading West Workstation



UR Up Relief
DR Down Relief
UM Up Main
DM Down Main

Note: **D** = LED Signal

TCB
 Thames Valley Signalling Centre (TR)
 Reading West Workstation

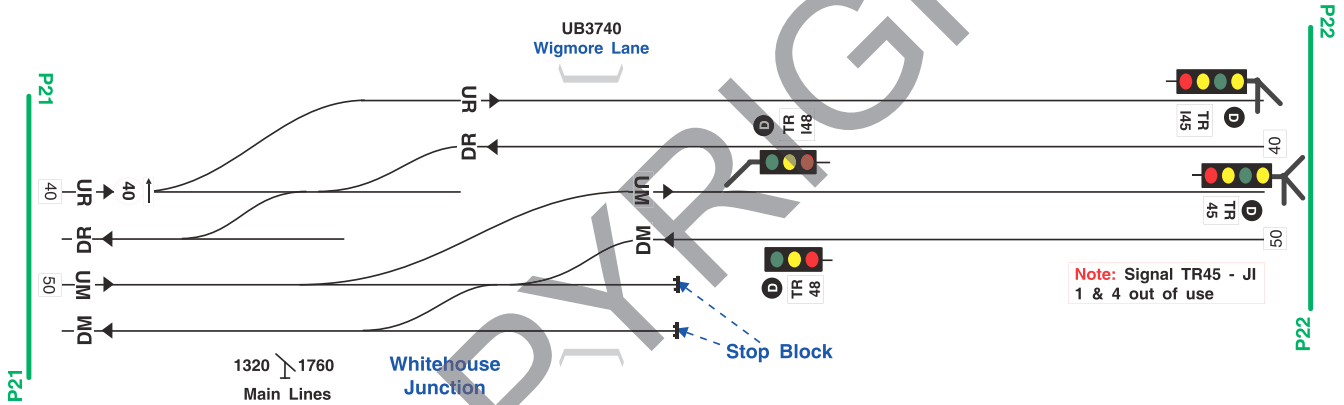


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UR	Up Relief
DR	Down Relief
UM	Up Main
DM	Down Main

Note: **D** = LED Signal

TCB / Axle Counters
 Thames Valley Signalling Centre (TR)
 Reading West Workstation

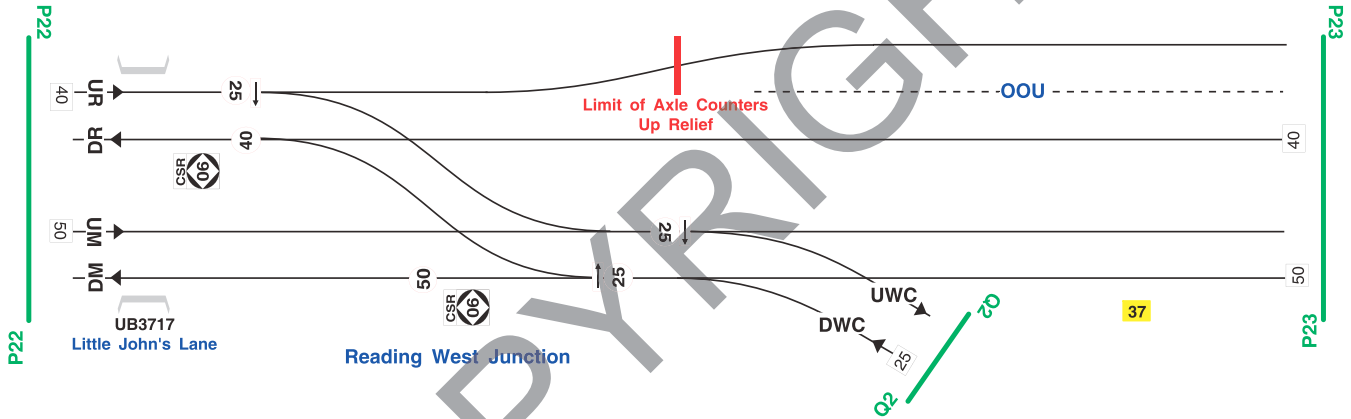


Note: Signal TR45 - JI
 1 & 4 out of use

UR	Up Relief
DR	Down Relief
UM	Up Main
DM	Down Main
UWC	Up West Curve
DWC	Down West Curve

Note: **D** = LED Signal

TCB / Axle Counters
Thames Valley Signalling Centre
Reading West Workstation



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- UR Up Relief
- DR Down Relief
- UM Up Main
- DM Down Main

Note: **D** = LED Signal

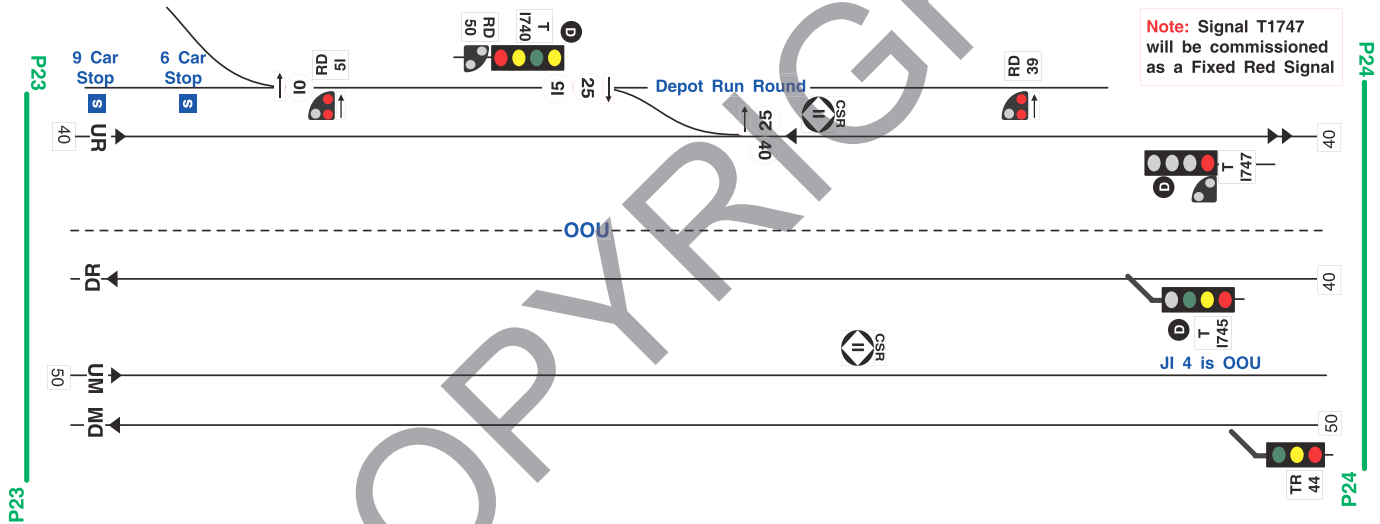
TCB / Axle Counters
 Thames Valley Signalling Centre (T) (TR)
 Reading West Workstation
 Reading Depot Control Centre (RD)



Depot Connection C

1760 1320
 Main Lines

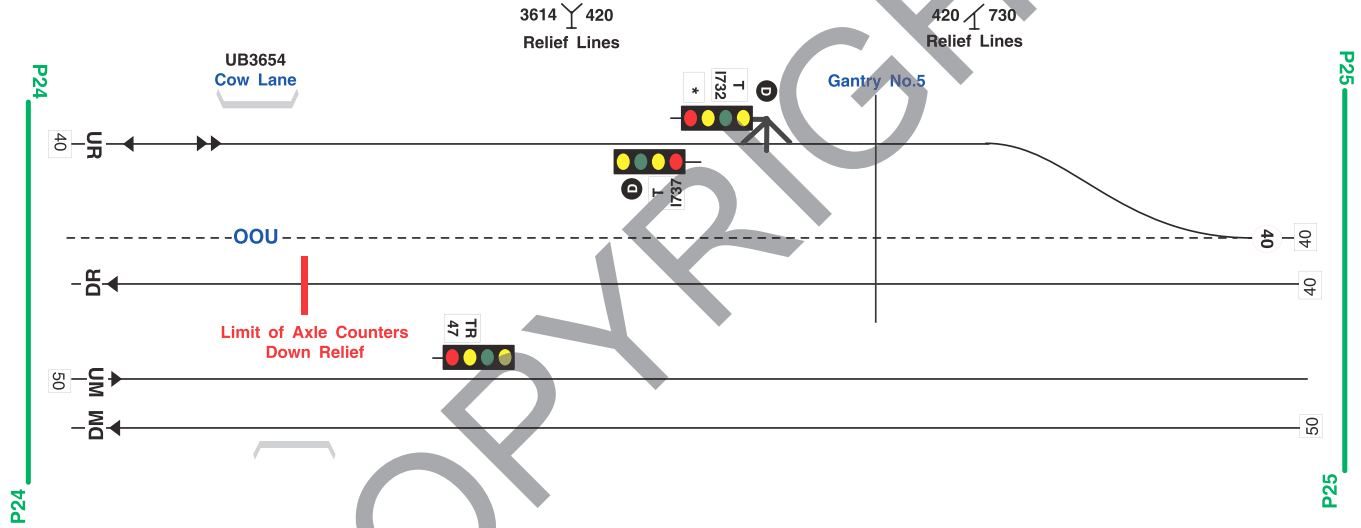
Note: Signal T1747
 will be commissioned
 as a Fixed Red Signal



UR	Up Relief
DR	Down Relief
UM	Up Main
DM	Down Main

Note: **D** = LED Signal

TCB / Axle Counters
 Thames Valley Signalling Centre (T) (TR)
 Reading West Workstation



- UR Up Relief
- DR Down Relief
- UM Up Main
- DM Down Main
- URL Up Relief Loop
- DRL Down Relief Loop

Note: **D** = LED Signal

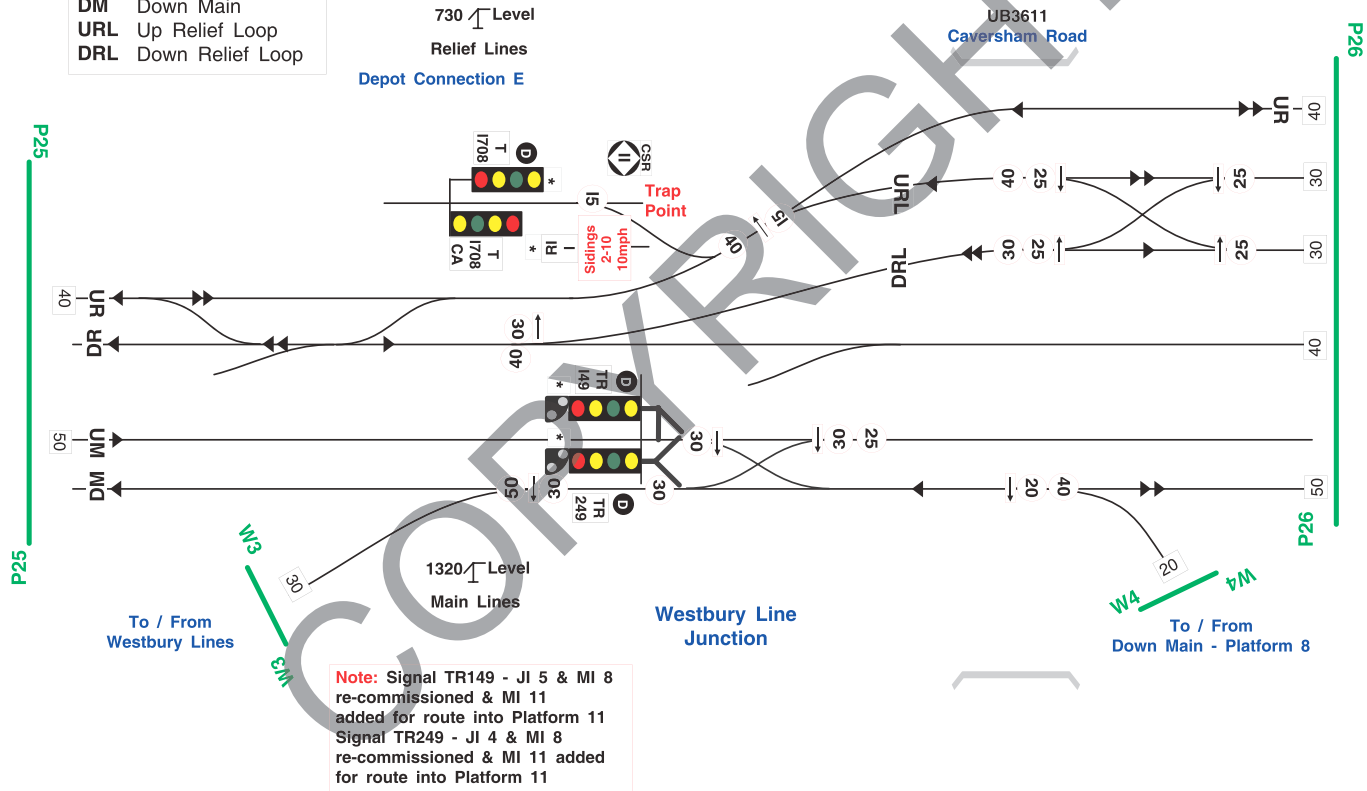
TCB / Axle Counters
 Thames Valley Signalling Centre (T) (TR)
 Reading West Workstation

GSM-R

NRN

091

CSR

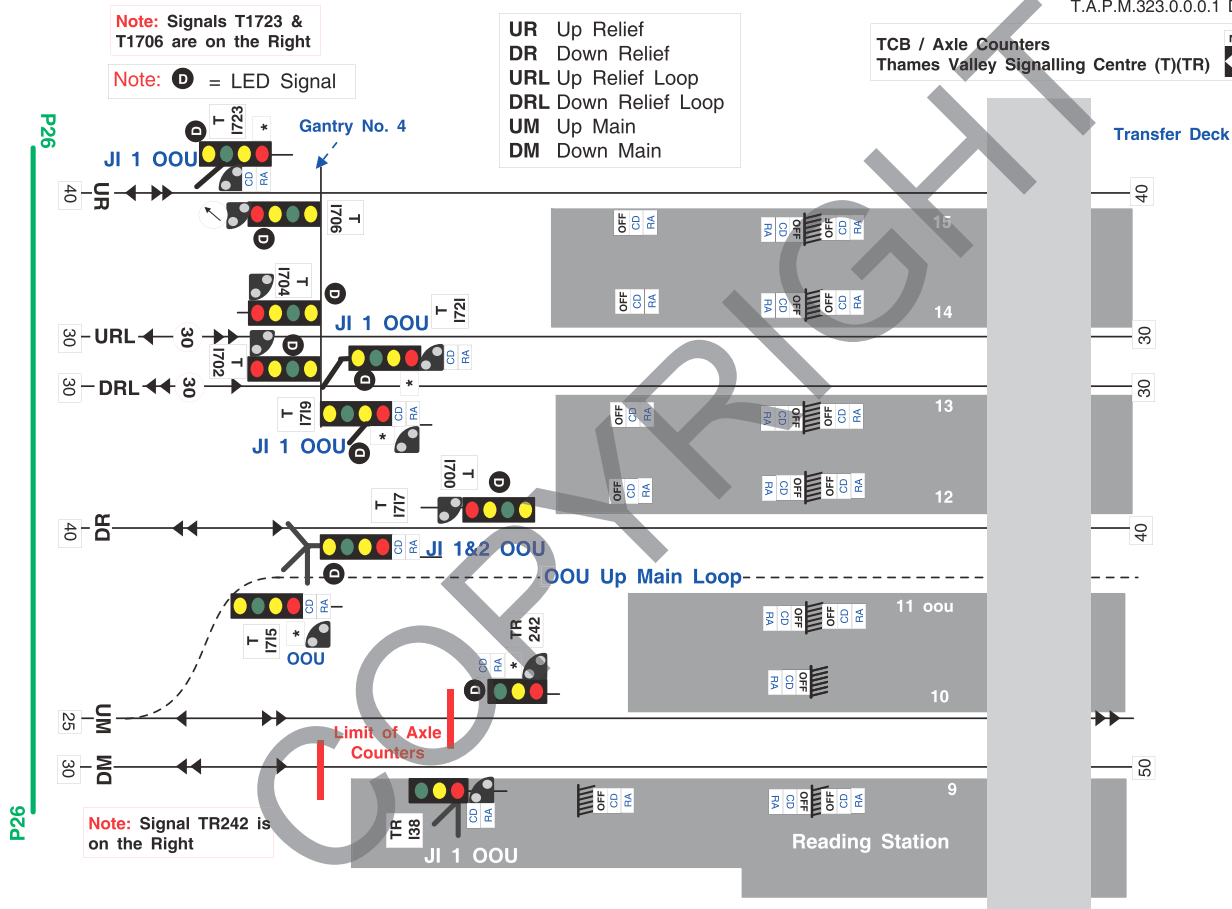


Note: Signals T1723 & T1706 are on the Right

Note: **D** = LED Signal

- UR** Up Relief
- DR** Down Relief
- URL** Up Relief Loop
- DRL** Down Relief Loop
- UM** Up Main
- DM** Down Main

TCB / Axle Counters
Thames Valley Signalling Centre (T)(TR)



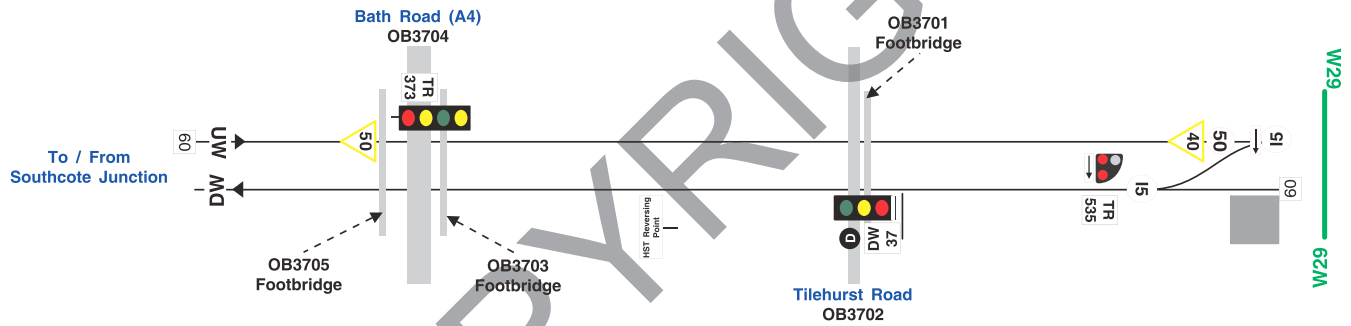
Note: Signal TR242 is on the Right

UW Up Westbury
DW Down Westbury

Note: **D** = LED Signal

TCB
Thames Valley SC (TR)(DW)
CSR 06 NRN 091

323 ↑ 307



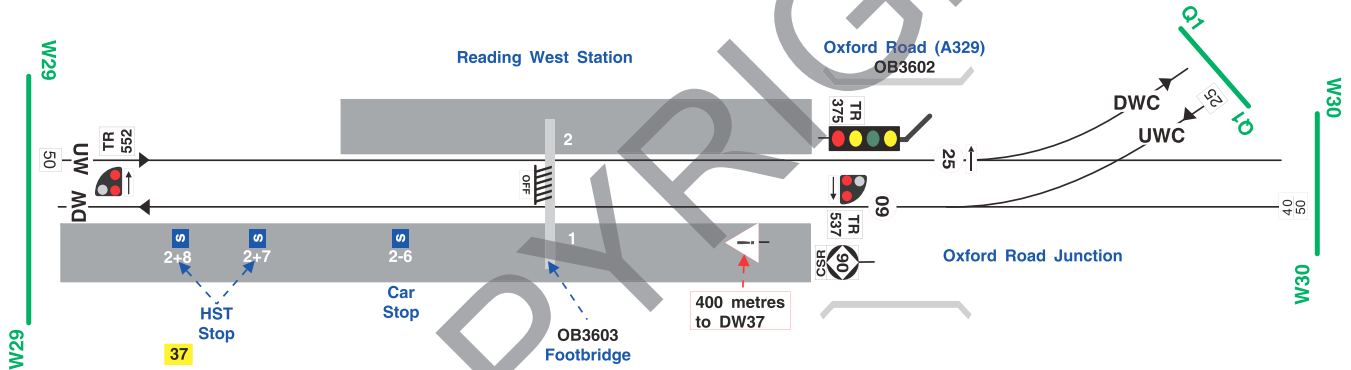
UW Up Westbury
DW Down Westbury
UWC Up West Curve
DWC Down West Curve

Note: **D** = LED Signal

T.A.P.M.323.0.0.0.1 December 2012

TCB
Thames Valley SC (TR)

CSR 06 NNR 091

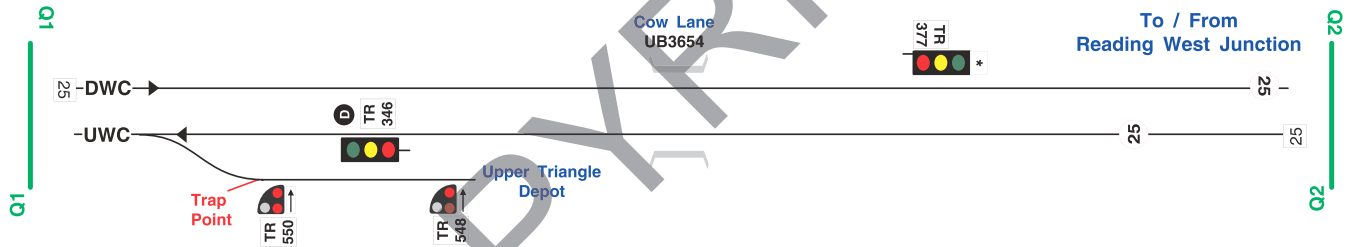


Mileage Change
36m 78ch | 0m 02ch

DWC Up West Curve
UWC Down West Curve

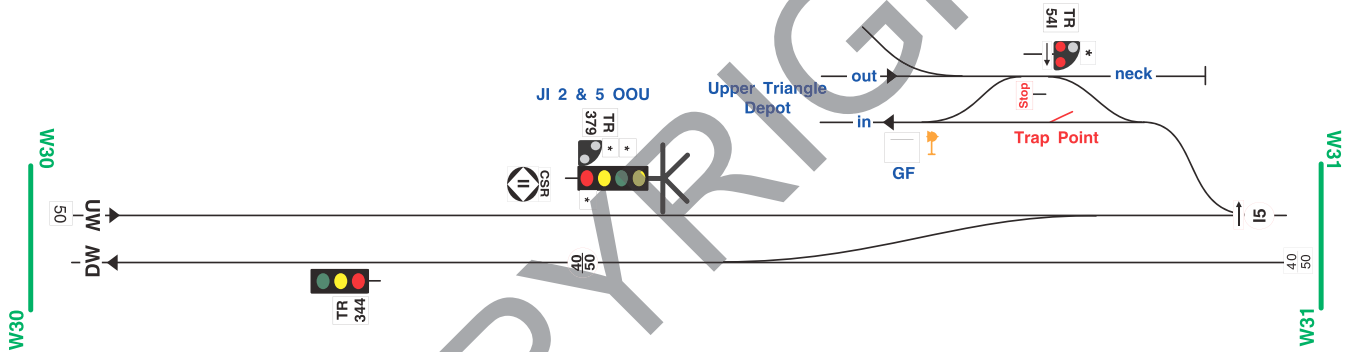
Note:  = LED Signal

TCB
Thames Valley SC (TR)
CSR 06 NRN 091



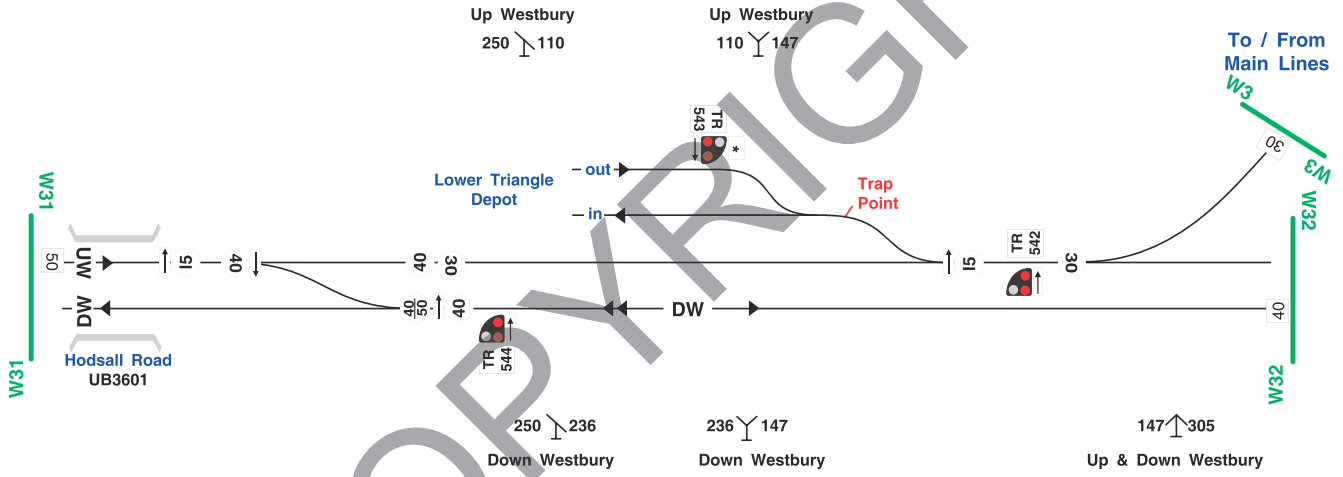
UW Up Westbury
DW Down Westbury

TCB
Thames Valley SC (TR)



UW Up Westbury
DW Down Westbury

TCB / Axle Counters
 Thames Valley SC (TR)

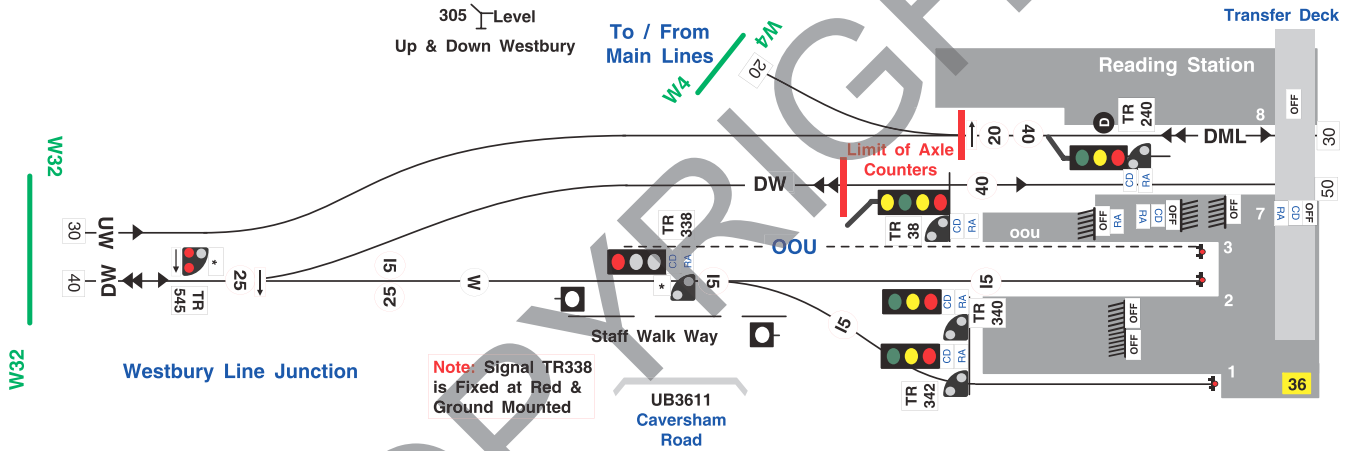


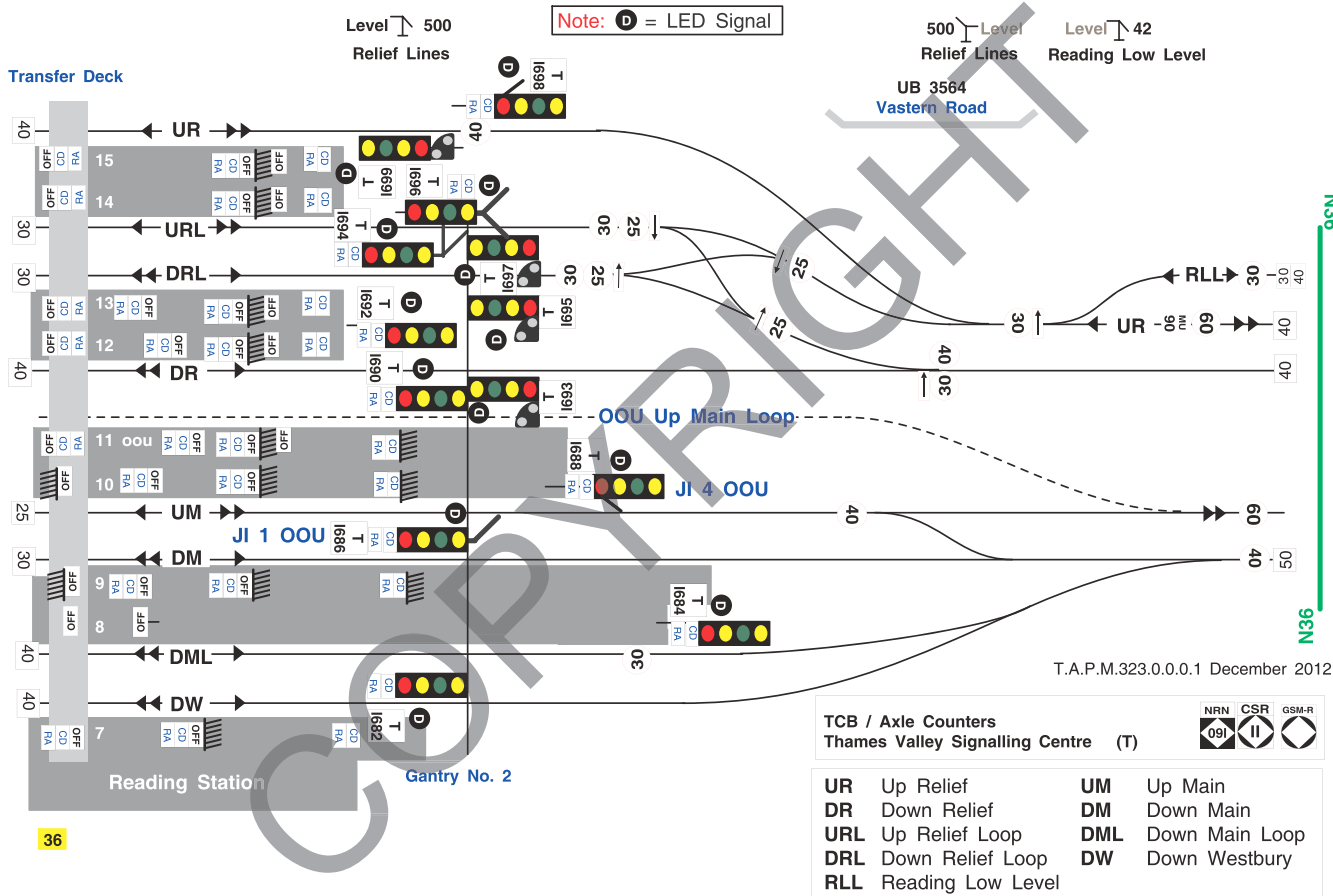
UW Up Westbury
 DW Down Westbury

TCB / Axle Counters
 Thames Valley SC (TR)

CSR 06
 NRN 091

Note: **D** = LED Signal





UR Up Relief
DR Down Relief
UM Up Main
DM Down Main
URS Up Reading Spur
DRS Down Reading Spur

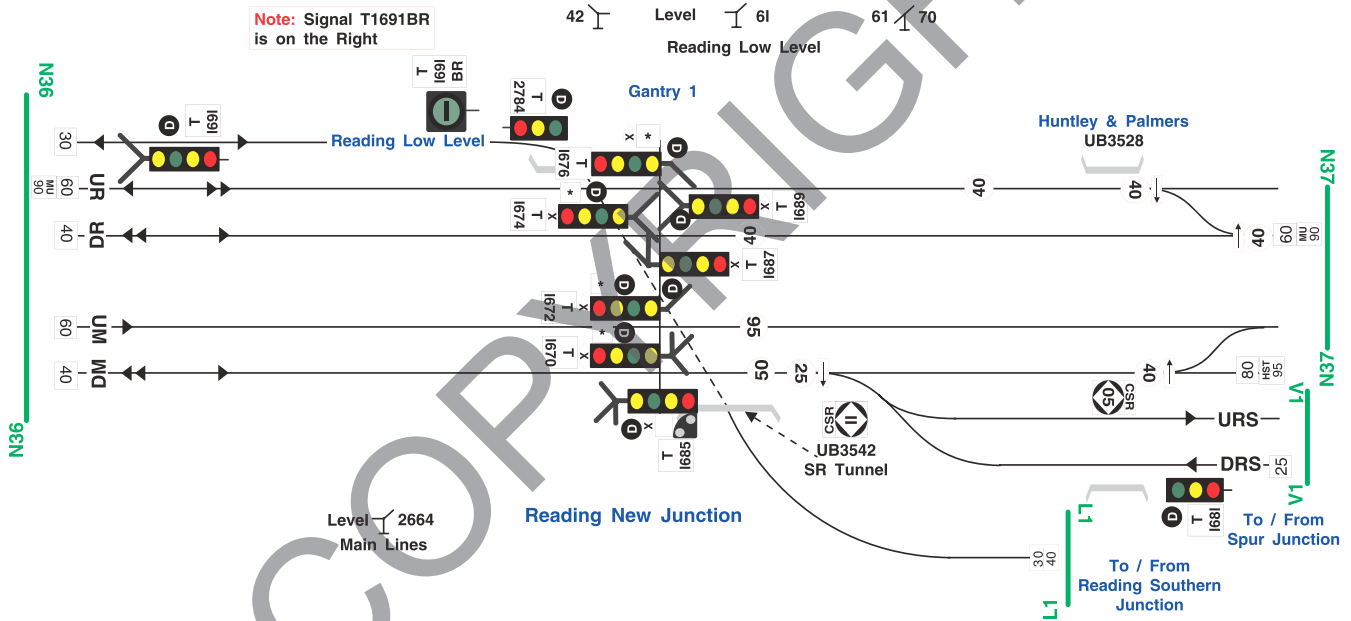
Note: **D** = LED Signal

TCB / Axle Counters
 Thames Valley Signalling Centre (T)

NRN **091**
 CSR **11**
 CSR **05**
 GSM-R **0**

Level 3918
 Relief Lines

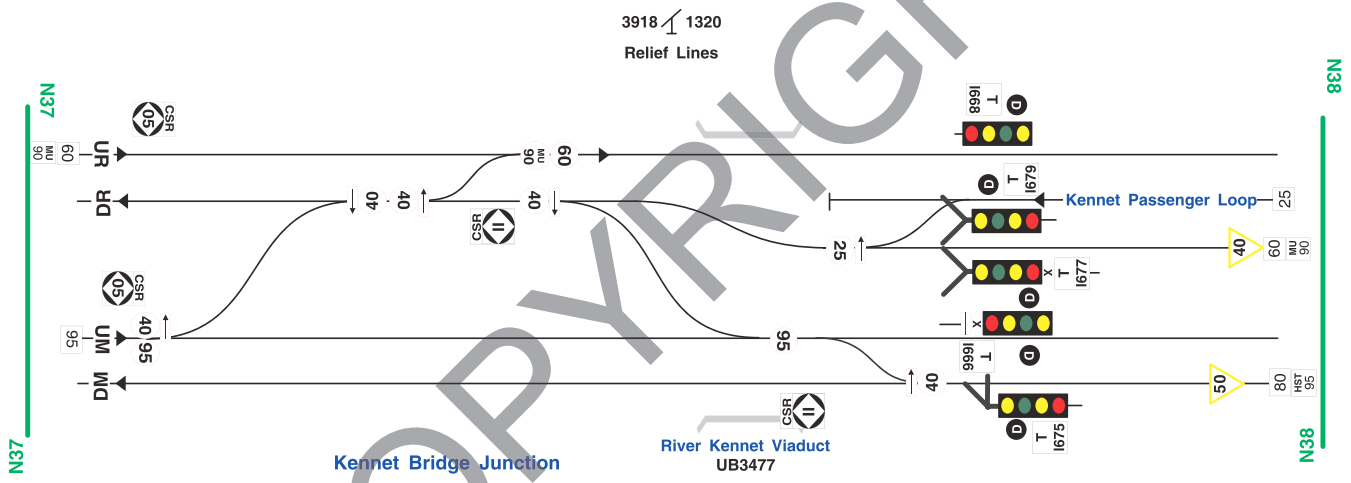
Note: Signal T1691BR is on the Right



- UR Up Relief
- DR Down Relief
- UM Up Main
- DM Down Main

Note: **D** = LED Signal

TCB / Axle Counters
Thames Valley Signalling Centre (T)



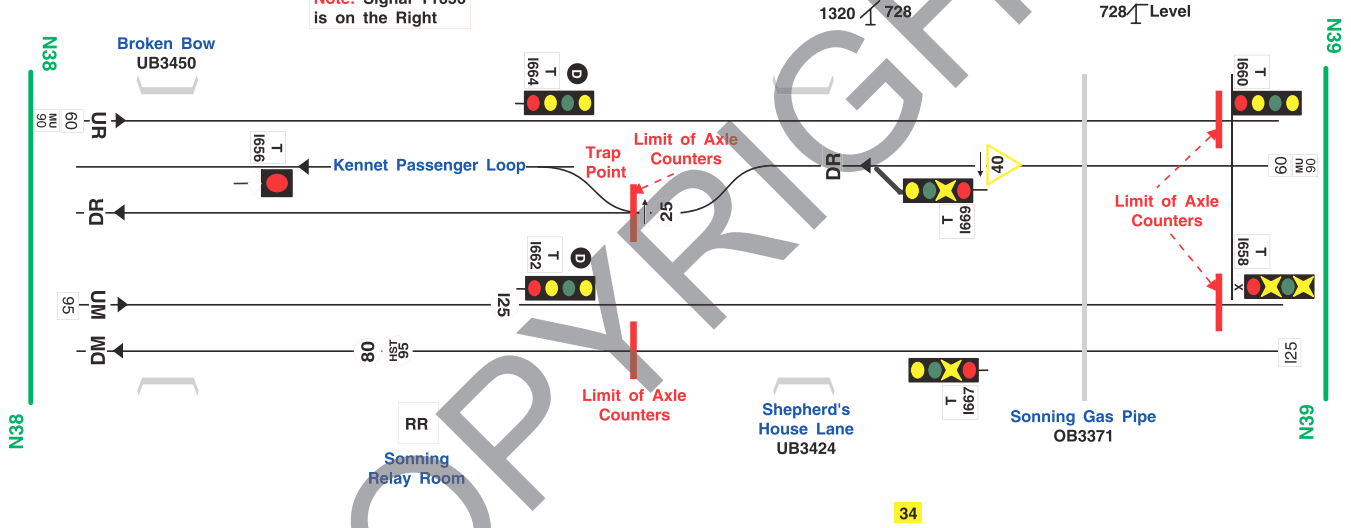
- UR** Up Relief
- DR** Down Relief
- UM** Up Main
- DM** Down Main

Note: **D** = LED Signal

TCB / Axle Counters
Thames Valley Signalling Centre (T)

NRN	CSR	GSM-R
091	05	

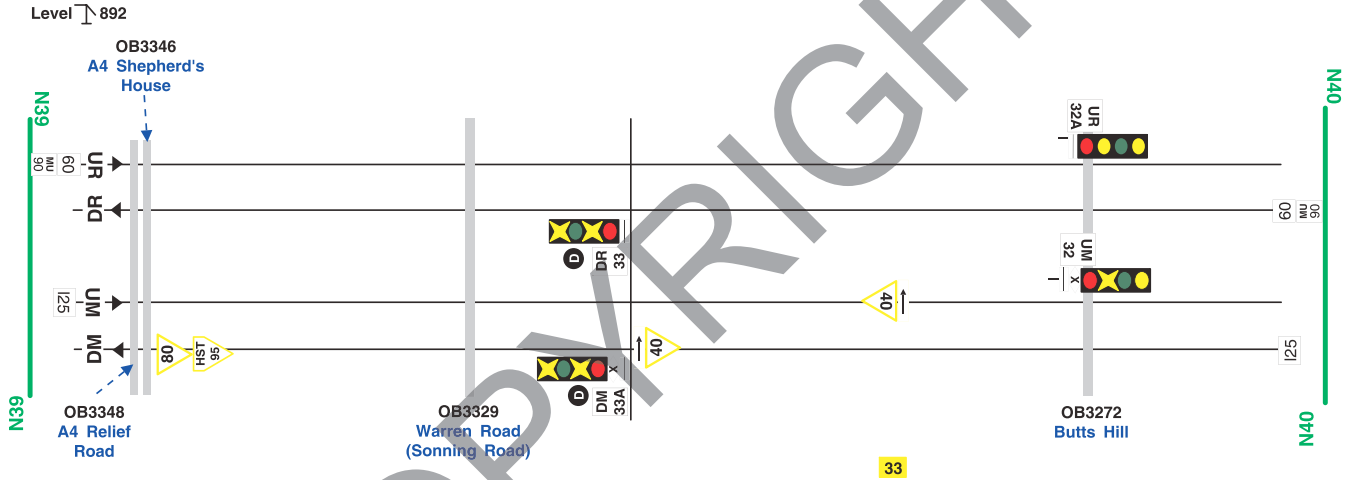
Note: Signal T1656 is on the Right



UR Up Relief
 DR Down Relief
 UM Up Main
 DM Down Main

Note: **D** = LED Signal

TCB
 Thames Valley Signalling Centre (DM) (DR) (NRN) (CSR) (GSM-R)
 (UM) (UR) 091 05

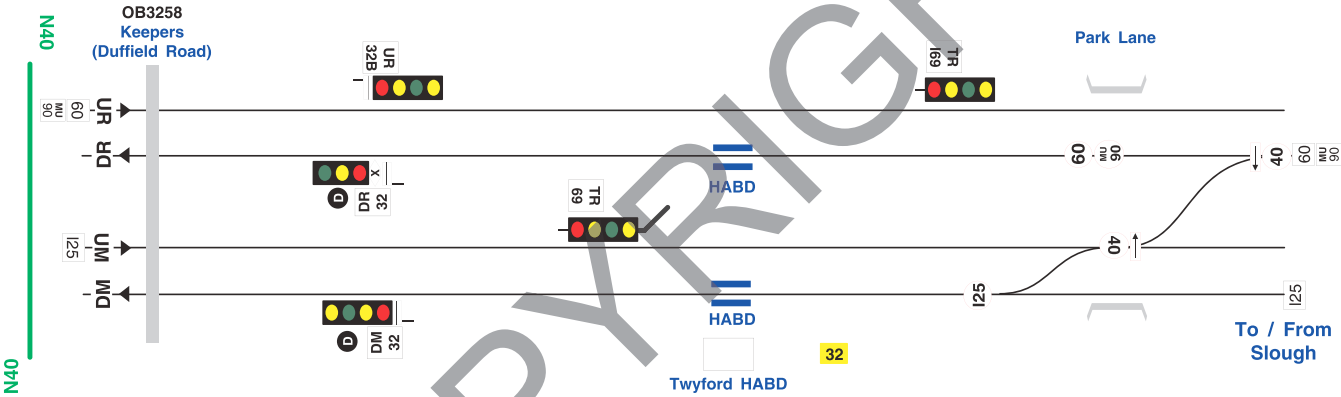


- UR Up Relief
- DR Down Relief
- UM Up Main
- DM Down Main

Note: **D** = LED Signal

TCB
Thames Valley Signalling Centre

(UR) (DR) (NRN 091) (DM) (TR) (CSR 05) (GSM-R)



Tables of Routes

The following lists of signal routes show all routes from

- signals from which there is more than one route
- signals which are capable of giving any route indications
- all position-light signals

Reading – Earley

DOWN DIRECTION

Signal Number	Aspect	Route Indication Displayed	Route	Exit Signal
T2783	M	Nil	Down Southern	T2785
	M	Pos. 4	Down Reading Spur	T1681
T6781	PL	D	Down Southern	T2785
	PL	S	Down Reading Spur	T1681
T2785	M	Nil	Down Southern	T2787
	M	Pos. 4	Reading Low Level (Down)	T1691
T6783	PL	4	Platform 4	Buffer
	PL	5	Platform 5	Buffer
	PL	6	Platform 6	Buffer
	PL	T	Reading Low Level (Down)	T1691
T2787	M/PL	4	Platform 4	Buffer
	M/PL	5	Platform 5	Buffer
	M/PL	6	Platform 6	Buffer

'M' indicates a main aspect

'PL' indicates Position Light Shunt aspect

Items in the '**Route Indication Displayed**' column specify a route indicator display or an illuminated Junction Indicator position

Blue = Future line name change Red = Not in use at this stage

Signal Number	Aspect	Route Indication Displayed	Route	Exit Signal
T6785	PL	4	Platform 4	Buffer
	PL	5	Platform 5	Buffer
	PL	6	Platform 6	Buffer

UP DIRECTION

Signal Number	Aspect	Route Indication Displayed	Route	Exit Signal
T2782	M	Nil	Up Southern	WM520
	PL	X	Down Southern (Up) LOS	T6788
T2780	M	Nil	Up Southern	WM520
	PL	X	Down Southern (Up) LOS	T6788

Twyford West Interlocking to Reading

DOWN DIRECTION

Signal Number	Aspect	Route Indication Displayed	Route	Exit Signal
T1669	M	Nil	Down Relief	T1677
	M	Pos. 4	Kennet Passenger Loop	T1679
T1675	M	Nil	Down Main	T1685
	M	Pos. 4	Down Relief	T1687
	M	Pos. 5	Up Relief (Down)	T1689
	M	Pos. 1	Down Main	T1685
T1677	M	Nil	Down Relief	T1687
	M	Pos. 4	Up Relief (Down)	T1689
T1679	M	Pos. 1	Down Main	T1685
	M	Nil	Down Relief	T1687
	M	Pos. 4	Up Relief (Down)	T1689
T1685	M	Pos. 2	Platform 7	TR38
	PL	7	Platform 7	TR38
	M	Pos. 1	Platform 8	TR240
	PL	8	Platform 8	TR240
	M	Nil	Platform 9	TR138
	PL	9	Platform 9	TR138
	M	Pos. 4	Platform 10 OOU	TR242
	PL	10	Platform 10 OOU	TR242

Signal Number	Aspect	Route Indication Displayed	Route	Exit Signal
T1687	M	Nil	Down Relief	T1693
	M	Pos. 4	Down Relief Loop	T1695
	M	Pos. 5	Up Relief Loop (Down)	T1697
T1689	M	Pos. 1	Down Relief Loop	T1695
	M	Nil	Up Relief Loop (Down)	T1697
	M	Pos. 4	Up Relief (Down)	T1699
T1691	M	Pos. 1	Down Relief Loop	T1695
	M	Nil	Up Relief Loop (Down)	T1697
T1693	M	Pos. 4	Up Relief (Down)	T1699
	M	Nil	Platform 12	T1717
T1695	PL	Nil	Platform 12	T1717
	M	Nil	Platform 13	T1719
T1697	PL	Nil	Platform 13	T1719
	M	Nil	Platform 14	T1721
T1699	PL	Nil	Platform 14	T1721
	M	Nil	Platform 15	T1723
T1699	PL	Nil	Platform 15	T1723

Reading to Twyford West Interlocking

UP DIRECTION

Signal Number	Aspect	Route Indication Displayed	Route	Exit Signal
T1686	M	Pos. 1	Up Main OOU	T1672
	M	Nil	Down Main (Up)	T1670
T1688	M	Nil	Up Main	T1672
	M	Pos. 4	Down Main (Up) OOU	T1670
T1694	M	Pos. 2	Reading Low Level (Up)	T2784
	M	Pos. 1	Up Relief	T1676
	M	Nil	Down Relief (Up)	T1674
T1696	M	Pos. 1	Reading Low Level (Up)	T2784
	M	Nil	Up Relief	T1676
	M	Pos. 4	Down Relief (Up)	T1674
T1698	M	Pos. 1	Reading Low Level (Up)	T2784
	M	Nil	Up Relief	T1676
T1670	M	Pos. 2	Up Relief	T1668
	M	L	Kennet Passenger Loop	T1656
	M	Pos. 1	Up Main	T1666
	M	Pos. 4	Up Reading Spur	T2780
T1672	M	Pos. 1	Up Relief	T1668
	M	L	Kennet Passenger Loop	T1656
	M	Nil	Up Main	T1666

Signal Number	Aspect	Route Indication Displayed	Route	Exit Signal
T1674	M	Pos. 1	Up Relief	T1668
	M	L	Kennet Passenger Loop	T1656
	M	Pos. 4	Up Main	T1666
T1676	M	Nil	Up Relief	T1668
	M	L	Kennet Passenger Loop	T1656
	M	Pos. 4	Up Main	T1666

Reading to Pangbourne

DOWN DIRECTION

Signal Number	Aspect	Route Indication Displayed	Route	Exit Signal
TR138	M	Pos. 2	Down Westbury	TR344
	PL	Nil	Up Westbury	TR542
	M	Nil	Down Main	TR44
TR242	M	W	Down Westbury	TR344
	PL	Nil	Up Westbury	TR542
	M	M	Down Main	TR44
T1715 OOU	M	W	Down Westbury	TR344
	PL	Nil	Up Westbury	TR542
	M	M	Down Main	TR44
T1717	M	Nil	Down Relief	T1745
	M	Pos. 4	Up Relief (Down) Future Up Reading Passenger Loop (Down)	T1737
T1719	M	Nil	Down Relief	T1745
	M	L	Up Relief (Down) Future Up Reading Passenger Loop (Down)	T1737
	M	D	Reading Depot	RD15
	PL	Nil	Reading Depot	Siding

Signal Number	Aspect	Route Indication Displayed	Route	Exit Signal
T1721	M	Nil	Down Relief	T1745
	M	L	Up Relief (Down) Future Up Reading Passenger Loop (Down)	T1737
	M	D	Reading Depot	RD15
	PL	Nil	Reading Depot	Siding
	M	Nil	Down Relief	T1745
T1723	M	L	Up Relief (Down) Future Up Reading Passenger Loop (Down)	T1737
	M	D	Reading Depot	RD15
	PL	Nil	Reading Depot	Siding
TR44	M	Nil	Down Main	TR48
	M	Pos. 4	Down Relief	TR148
T1745	M	Nil	Down Relief	TR148
TR148	M	Pos. 1	Down Main	DM38
	M	Nil	Down Relief	TR150

Pangbourne to Reading

UP DIRECTION

Signal Number	Aspect	Route Indication Displayed	Route	Exit Signal
TR41	M	Pos. 1	Up Relief	TR143
	M	Nil	Up Main	TR43
TR45	M	Nil	Up Main	TR47
	M	Pos. 5	Up West Curve	TR346
TR145	M	Nil	Up Relief	T1732
	M	Pos. 4	Up Main	TR47
	M	Pos. 5	Up West Curve	TR346
T1740	M	Nil	Up Relief (Future Reading Passenger Loop)	T1732
T1732	M	Nil	Up Relief	T1706
	M	Pos. 4	Up Relief Loop	T1704
	M	Pos. 4 & A	Up Relief Loop	T1704
	M	Pos. 5	Down Relief Loop (Up)	T1702
	M	Pos. 5 & A	Down Relief Loop (Up)	T1702
	M	Pos. 6	Down Relief (Up)	T1700

Signal Number	Aspect	Route Indication Displayed	Route	Exit Signal
TR249	M	Nil	Platform 9	T1686
	PL	9	Platform 9	T1686
	M	Pos. 4	Platform 8	T1684
	PL	8	Platform 8	T1684
	M	Pos. 1	Platform 10	T1688
	PL	10	Platform 10	T1688
	M	Pos. 1	Platform 11 OOU	T1690
	PL	11	Platform 11 OOU	T1690
	M	Nil	Platform 11 OOU	T1690
	PL	11	Platform 11 OOU	T1690
TR149	M	Nil	Platform 10	T1688
	PL	10	Platform 10	T1688
	M	Pos. 4	Platform 9	T1686
	PL	9	Platform 9	T1686
	M	Pos. 5	Platform 8	T1684
	PL	8	Platform 8	T1684
	M	Nil	Platform 12	T1692
T1700	PL	Nil	Platform 12	T1692
	M	Nil	Platform 13	T1694
T1702	PL	Nil	Platform 13	T1694

Signal Number	Aspect	Route Indication Displayed	Route	Exit Signal
T1704	M	Nil	Platform 14	T1696
	PL	Nil	Platform 14	T1696
T1706	M	Nil	Platform 15	T1698
	PL	Nil	Platform 15	T1698
T1708	M	15	Platform 15	T1706
	M	14	Platform 14	T1704
	M	13	Platform 13	T1702

Reading to Reading West & Reading West Curve

DOWN DIRECTION

Signal Number	Aspect	Route Indication Displayed	Route	Exit Signal
TR240	M	Nil	Down Westbury	TR344
	PL	Nil	Up Westbury	TR542
	M	Pos. 4	Down Main	TR44
TR542	PL	Nil	Down Westbury	TR344
	PL	Nil	Upper Triangle Depot Out Road	Stop Board
	PL	Nil	Lower Triangle Depot	Stop Board
	PL	Nil	Down Westbury	TR344
TR544	PL	Nil	Upper Triangle Depot Out Road	Stop Board
	M	M	Down Main	TR48
TR377	M	R	Down Relief	TR148
	M	Nil	Down Westbury	TR344
TR340	PL	Nil	Down Westbury	TR544
	M	Nil	Down Westbury	TR344
TR342	PL	Nil	Down Westbury	TR544

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Reading West to Reading

UP DIRECTION

Signal Number	Aspect	Route Indication Displayed	Route	Exit Signal
TR379	M	Pos. 1	Down Main	TR249
	M	Nil	Platform 8	TR1684
	PL	8	Platform 8	TR1684
	M	2	Platform 2	—
	PL	2	Platform 2	—
	M	1	Platform 1	—
	PL	1	Platform 1	—
	PL	DW	Down Westbury	TR545
	M	Pos. 4	Platform 7	T1682
	PL	7	Platform 7	T1682
TR541	PL	N	Neck	—
	PL	M	Down Main	TR249
	PL	8	Platform 8	TR1684
	PL	W	Down Westbury	TR545
TR543	PL	M	Down Main	TR249
	PL	8	Platform 8	TR1684
TR545	PL	7	Platform 7	TR1682
	PL	2	Platform 2	—
	PL	1	Platform 1	—

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