



7<sup>th</sup> May 2020

## Commentary on the Anglia Timetable Planning Rules 2021

### Version 2.2

### Final Revised Rules for Principal Change Timetable 2021

This document is a covering note for the Timetable Planning Rules – Final Revised Rules for Principal Change Timetable 2021 - and provides a specific commentary to the route described above.

In the Timetable Planning Rules document each change in content is indicated by the following convention:

New or Amended text is red

~~Deleted text is green and struck through~~

The change is also highlighted with a thick vertical line at the right hand side of the page.

The following is a summary of changes in content from **Version 4.0 of the 2020 Timetable Planning Rules**.

## 1 Introduction and General Notes

### 1.3 Definitions

#### 1.3.1 Train Classification

Route codes for Cambridge area added

## 2 Route Description

### 2.1 Planning Geography

#### EA 1161

Route codes at Shepreth Branch Junction amended  
Route codes at Cambridge Signal CA147 amended  
Name of Cambridge Signal CA149 amended  
Route codes at Cambridge Signal CA149 amended  
Timing point for Cambridge Signal CA647 added  
Route codes at Cambridge amended  
Timing point for Cambridge Signal CA164 added  
Route codes at Cambridge Signal CA177 amended  
Notes at Cambridge Signal CA177 amended  
Name of Cambridge Reception Roads 1 & 2 amended  
Route codes at Cambridge Reception Roads 1 & 2 amended  
Name of Cambridge Reception Sidings amended  
Route codes at Cambridge Reception Sidings amended  
Timing points for Cambridge Carriage Sidings South ,  
Cambridge L.H.S., Cambridge Signal CA708 and Cambridge  
Signal CA180 added

	Route codes at Mill Road Jn amended
	Timing point code at Mill Road Jn amended
	Note at Mill Road Junction amended
	Timing point for Cambridge Signal CA722 removed
	Timing point for Cambridge CS amended
	Route codes at Cambridge Signal CA732 amended
	Note at Cambridge Signal CA732 amended
	Route codes at Cambridge T.M.D. amended
	Code column at Cambridge T.M.D. amended
	Route codes at Coldham Lane Junction amended
	Note at Chesterton Junction added
	Name of Chesterton Junction Yard amended
	Timing point for Chesterton Junction Yard North Junction added
	Waterbeach amended to be a mandatory timing point
	Ely Reception amended
	Route code at Ely added
	Note at Ely Up Goods Loop added
<b>EA 1162</b>	Notes at Littleport Signal L22 amended
	Note at King's Lynn Stabling Siding amended
	Code column at King's Lynn Signal KL43 amended
<b>EA 1310</b>	Code column at Gospel Oak Signal NL 1000 amended
	Note at Hampstead Heath added
	Route code at Hampstead Heath added
	Code column at Kensal Green Turnback amended

## 5 Running Times, Margins and Allowances

### 5.1 Sectional Running Times

#### 5.1.3 New and Revised Sectional Running Times

SRT changes are being included in Anglia Timetable Planning Rules 2021 Version 2.2 and will be in line with agreed Dec 20 work packages for the Cambridge area and the North London Line. Summary of the changes from 2020 Version 4.0 for May 20:

<b>EA 1161</b>	Cambridge area route codes amended Cambridge area SRTs reviewed Cambridge Carriage Sidings SRTs reviewed Waterbeach passing SRTs added
<b>EA 1230</b>	Cambridge area SRT review
<b>EA 1310</b>	Class 378 and Class 710 SRTs amended and added
<b>EA 1320</b>	Class 378 and Class 710 SRTs amended and added

### 5.2 Headways

#### 5.2.1 Headway Values

<b>EA 1161</b>	Headway values between Ely and Ely North Junction amended
<b>EA 1310</b>	Headway vales for this line of route amended
<b>EA 1320</b>	Headway vales for this line of route amended

### 5.3 Junction Margins and Station Planning Rules

<b>Standard Values</b>	Junction margin added Minimum turnarounds for Class 378 and 710 added Minimum turnarounds note added Peak services definition for EA 1310, EA 1320 and EA 1370 added
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**EA 1161**

Cambridge Signal CA147  
- Entry added  
Cambridge Signal CA149  
- Entry added  
Cambridge Signal CA647  
- Restriction added  
Cambridge Reception Sidings  
- Junction margins added  
Cambridge  
- Loop lengths moved  
- Minimum turnround time added  
- Adjustments to Sectional running Times amended  
Cambridge Reception Roads 1 & 2  
- Entry added  
Mill Road Jn  
- Junction margin added  
Cambridge Carriage Sidings North  
- Junction margins added  
Cambridge North  
- Adjustment to Sectional Running Times amended  
- Dwell time amended  
- Permissive Working Restrictions added  
Ely  
- Adjustment to Sectional Running Times added  
Ely North Junction  
- Location name corrected

**EA 1162**

Littleport  
- Restriction amended

**EA 1310**

Kentish Town West  
- Platform reoccupations added  
Gospel Oak  
- Dwell time added  
- Platform reoccupations added  
Hampstead Heath  
- Platform reoccupations added  
Finchley Road & Frognal  
- Platform reoccupation added  
West Hampstead  
- Dwell time added  
- Platform reoccupations added  
Brondesbury  
- Platform reoccupations added  
Brondesbury Park  
- Platform reoccupations added  
Kensal Rise  
- Platform reoccupations added  
Willesden Junction High Level  
- Dwell time amended  
- Diverging margins removed  
- Platform reoccupations added  
Richmond  
- Adjustment to Sectional Running Times removed

**EA 1320**

All Stations on EA 1320

- Platform reoccupation added  
Camden Road
- Dwell time added
- Platform reoccupation added  
Highbury & Islington
- Dwell time wording amended
- Platform reoccupation added  
Dalston Kingsland
- Dwell time added  
Hackney Central
- Dwell time added  
Homerton
- Dwell time added

**5.4 Platform Lengths**

Notes for Littleport platform lengths amended

Notes for Waterbeach platform lengths amended

**A Appendix A Timing Point Diagrams**

Section added

**B Appendix B Route Code Diagrams**

Section added

These represent the revised Timetable Planning Rules (the “Final Rules”) for the Principal Change 2021 timetable in accordance with Part D of the Network Code, Condition D2.2.7.

As per Condition D2.2.8 of Part D of the Network Code, any Timetable Participant dissatisfied with any decision of Network Rail in respect of those Rules is entitled to appeal against any part of it. Any such appeal shall be conducted in accordance with Condition D 5 of Part D of the Network Code and must be made by a Timetable Participant and initiated in accordance with Network Code Part D Condition D2.2.8 (a) and (b).

Regards

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# **Timetable Planning Rules**

## **Anglia**

**2021 TIMETABLE**

**Version 2.1**

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Final Revised Rules for Principal Change Timetable 2021  
3<sup>rd</sup> April 2020

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# 1 Introduction and General Notes

Network Rail provide the Timetable Planning Rules document to Train Operators and other interested parties to set out the rules which are applicable to Access Requests for scheduling of train paths on the Network Rail network. Separate sections of Timetable Planning Rules are prepared for each Route with a National Timetable Planning Rules document setting out procedures to be followed and other nationally applicable rules.

Network Rail will determine the contents of Timetable Planning Rules through consultation with Train Operators with the primary aim of achieving the optimal balance between access to the network for train operations and performance robustness of the resulting train plan. This consultation is in line with the Network Code Part D, and Train Operators have a right of appeal to Timetabling Sub-Committee against the contents of the Final Timetable Planning Rules.

Final Timetable Planning Rules are issued with timetable Access Request Information before the commencement of the development period for the Principal Change timetable to which the Rules apply and cover a 12-month period. Revised Timetable Planning Rules are issued with timetable Access Request Information before the commencement of the Subsidiary Change timetable development period and show changes applicable to the Subsidiary Change timetable period which have been agreed since the issue of the annual Timetable Planning Rules.

Timetable Planning Rules may be changed only through this twice-yearly process or by the change procedure described in the National Timetable Planning Rules

Train Operators' Access Requests for train paths must be compliant with Timetable Planning Rules. If a Train Operator wishes to submit an Access Request for a train path which is not compliant with Timetable Planning Rules it should consult the Network Rail Capacity Planning team to establish whether an amendment to Timetable Planning Rules is likely to be agreed and, if appropriate, submit an amendment proposal which will be considered by Network Rail in accordance with the Change Procedure set out in the National Timetable Planning Rules. The Timetable Planning Rules amendment proposal should be submitted to Network Rail as early as possible and certainly no later than the time of submission of the Access Request. If the proposed change is likely to involve the calculation of new sectional running times or a physical investigation then the Train Operator should liaise with the Capacity Planning team to establish a realistic timescale for evaluation of the proposed change before submission of the Access Request.

## 1.1 Index of Routes

Information arranged on a line of route basis in this document is presented in the following order:

EA 1010	Liverpool Street to Seven Kings
EA 1011	Seven Kings to Ipswich
EA 1012	Ipswich to Trowse Junction
EA 1013	Trowse Junction to Norwich
EA 1020	Carpenter's Road South Junction to Carpenter's Road North Junction
EA 1030	Forest Gate Junction to Woodgrange Park Junction
EA 1040	Romford to Upminster
EA 1050	Shenfield Junction to Southend Victoria
EA 1060	Wickford Junction to Southminster
EA 1070	Witham Junction to Braintree
EA 1080	Marks Tey Junction to Sudbury
EA 1090	Colchester Junction to Clacton-on-Sea
EA 1100	East Gate Junction & Hythe Junction to Colchester Town
EA 1110	Thorpe-le-Soken Junction to Walton-on-the-Naze
EA 1120	Manningtree to Harwich Town
EA 1130	Griffin Wharf Branch
EA 1140	Ipswich Docks Branch
EA 1150	Channelsea South Junction to Stratford Central Junction West
EA 1160	Bethnal Green East Junction to Bishop's Stortford
EA 1161	Bishop's Stortford to Ely North Junction
EA 1162	Ely North Junction to King's Lynn
EA 1170	Hackney Downs North Junction to Enfield Town
EA 1180	Reading Lane Junction to Navarino Road Junction (Graham Road Curve)
EA 1190	Bury Street Junction to Cheshunt Junction
EA 1200	Clapton Junction to Chingford
EA 1210	Broxbourne Junction to Hertford East
EA 1220	Stansted South & North Junctions to Stansted Airport
EA 1230	Royston to Shepreth Branch Junction
EA 1270	King's Lynn Junction to Middleton Towers
EA 1280	Stratford Central Junction to Coppermill Junction
EA 1290	Tottenham South Junction to South Tottenham East Junction
EA 1300	South Tottenham West Junction to 3 Seven Sisters Junction
EA 1310	Camden Road West Junction to Richmond
EA 1320	Camden Road West Junction to Stratford Platforms 1 & 2
EA 1330	South Acton Junction to Old & New Kew Junctions
EA 1340	Stratford Lea Junction to High Meads Junction
EA 1350	Channelsea North Junction to Temple Mills East Junction
EA 1360	Dudding Hill Junction to Acton Wells Junction
EA 1370	Gospel Oak Junction to Barking Tilbury Line Junction West
EA 1380	Fenchurch Street to Shoeburyness
EA 1390	Barking Tilbury Line Junction East To Pitsea Junction (Via Tilbury)
EA 1400	Gas Factory Junction to Bow Junction
EA 1410	Upminster to West Thurrock Junction
EA 1420	Thames Haven Junction to London Gateway Port/Thames Haven Sidings
EA 1430	East Suffolk Junction to Oulton Broad North Junction
EA 1440	Westerfield Junction to Felixstowe Town
EA 1450	Trimley To Felixstowe North and Central Terminals
EA 1460	Felixstowe Beach Junction to Felixstowe Beach (for Felixstowe South Quay Freightliner Terminal)
EA 1470	Norwich Thorpe Junction and Trowse Swing Bridge to Lowestoft
EA 1480	Whitlingham Junction to Cromer
EA 1490	Cromer to Sheringham
EA 1500	Brundall Junction to Yarmouth



EA 1510	Reedham Junction to Yarmouth
EA 1520	Saxmundham Junction to Sizewell
EA 1530	Coldham Lane Junction to Haughley Junction
EA 1540	Chippenham Junction to Ely Dock Junction
EA 1550	Ely North Junction to Ely West Junction (Ely West Curve)
EA 1560	Ely North Junction to Kings Dyke (inclusive)
EA 1570	March East & West Junctions to Wisbech
EA 1580	Ely North Junction to Trowse Junction
EA 1744	Boss Hall Junction to Europa Junction – Bacon Factory Curve

## 1.2 Sectional Appendices and Rule Book

### 1.2.1 Sectional Appendix

The Sectional Appendix to the Working Timetable and Books of Rules and Regulations shall be used.

The Sectional Appendix is the sole source of information regarding the following:

Electrification limits refer to relevant Table 'A'.

Permissive Working refer to relevant Table 'A', then see below.

Route Clearance refer to 'tab' associated with relevant Table 'A'

To identify the type of Permissive Working that applies at a given location, refer to the appropriate Sectional Appendix Table A for that location. If there is authority for Permissive Working, this will appear in the Signalling and Remarks. There are different authorities that depend upon the signalling and layout of the location. The following list identifies the types of Permissive Working that will appear in the Sectional Appendix.

Type	Description
PP	Permissive Working – Full use for class 1, 2, 3 ECS, 5, 9 and 0 trains
PP – A	Permissive Working – Attaching and Detaching use only for class 1, 2, 3 ECS, 5, 9 and 0 trains
PP – C	Permissive Working – Contingency use only for class 1, 2, 3 ECS, 5, 9 and 0 trains
PP – S	Permissive Working – Platform Sharing use only for class 1, 2, 3 ECS, 5, 9 and 0 trains
PF	Permissive Working – For class 3 to 8 and 0 trains

*Source: Sectional Appendix – General Instructions – National - Explanation of Table A terms and symbols*

## 1.2.2 Rule Book

The following Modules of the Rule Book GE/RT8000 affects all sections unless specified. The sections listed affect railway operations and train movements. The listed section does not apply to Train Planning directly, but its application will affect how trains operate, and it is for that reason the item appears here.

RULE BOOK MODULE	SECTION	NOTES
G1 General safety responsibilities and personal track safety for non-track workers	5.5 Using the phonetic alphabet	Operational principles
OTM Working of on-track machines (OTM)	2.2 Before starting a journey	TPR Section 4.6
	5.6 Carrying out a running brake test	TPR Section 5.1.2
P1 Single line working	6.5 Warning anyone working on or near the line used for single line working	When planning Single Line Working
	9.3 Right-direction movements	
	9.4 Wrong-direction movements	
S1 Signals and indicators controlling train movements		Operational principles
S2 Observing and obeying fixed signals	3.1 Passenger train at a position-light, shunt-ahead or shunting signal	Operational principles
SP Speeds	2.4 Differential permissible speed indicators	TPR Section 5.1.2
	2.5 Permissible speed indicators with letters	TPR Section 5.1.2
	2.6 Enhanced permissible speed (EPS) indicators	TPR Section 5.1.2
T11 Movement of engineering trains and on-track plant under T3 arrangements	3 Movements entering the possession	When planning trains entering possessions
	7 Instructing the driver or machine controller	When planning trains entering possessions
TW1 Preparation and movement of trains General	7.1 Authority and arrangements for movements (Hauling dead traction units)	Operational principles
TW2 Preparation and movement of multiple-unit passenger trains	6.5 Carrying out a running brake test	TPR Section 5.1.2
TW3 Preparation and movement of locomotive hauled trains (including HSTs, push-pull, postal, parcels)	2.1 Locomotives running light or hauling trains (Maximum speed of);	TPR Section 5.1.2
	2.2 Maximum permitted speed of locomotive-hauled trains	TPR Section 5.1.2
	2.3 Electric-traction speed restrictions	TPR Section 5.1.2
	3.16 Carrying out a running brake test	TPR Section 5.1.2
	Section 14.1 Working trains with locomotives at both ends, when this type of working is permitted	Operational principles

RULE BOOK MODULE	SECTION	NOTES
Rule Book Handbook 5 Handsignalling Duties	Section 5.2 Entrance signal	When planning Temporary Block Working (TBW)
	5.3 Exit signal	When planning Temporary Block Working (TBW)
	5.4 Where TBW is divided into two sections	When planning Temporary Block Working (TBW)

## 1.3 Definitions

The list below is not an exhaustive one but is intended to give readers an understanding of some of the terminology as used for the purposes of this document.

If any term in Timetable Planning Rules is unclear, please contact the compiler on the telephone number shown on the cover.

### 1.3.1 Train Classification

First Character	Description
1	Express passenger train; or Nominated postal or parcels train; or Breakdown or overhead line equipment train going to clear the line or returning from there (1Z99); or Traction unit going to assist a failed train (1Z99) Snow plough going to clear the line (1Z99)
2	Ordinary passenger train; or Breakdown or overhead line equipment train not going to clear the line (2Z99) Officers' special train (2Z01)
3	Freight train which can run at more than 75 mph; or A parcels train; or Empty coaching stock train if specially authorised
4	Freight train which can run up to 75 mph
5	Empty coaching stock train
6	Freight train which can run up to 60 mph
7	Freight train which can run up to 45 mph
8	Freight train which can run at, or is timed to run at, 35 mph or less
9	Thameslink services to or from St Pancras Low Level and beyond MTR Crossrail services through the Crossrail Central Operating Section GA Norwich in 90 services c2c services to/from London Liverpool Street A train formed of a Class 373 unit. Passenger services for East London line
0	Light locomotive or locomotives

Source: The Rule Book GE/RT8000/TW1 Preparation and Movement of Trains General Section 2 Classification and speed of trains

Second Character	Route
A	Manningtree and Harwich Town Cambridge and Harwich International Harwich District
B	London Liverpool Street, Stratford and Stansted Airport London Fenchurch Street/London Liverpool Street and Shoeburyness (via Laindon) Ipswich to Felixstowe South Terminals
C	Stratford and Gidea Park, Norwich and Great Yarmouth (via Reedham) London King's Cross and Cambridge London Liverpool Street District
D	Ipswich and Lowestoft London Liverpool Street and Cheshunt/Hertford East (via Seven Sisters) London Fenchurch Street/London Liverpool Street and Shoeburyness (via Ockendon) Broxbourne District
E	To Eastern Region (LNE area) ECS to East Ham EMUD
F	Chelmsford (including Braintree branch) and Colchester; Class 1 Liverpool Street to or from Colchester Town NOT calling at Romford; Liverpool Street to or from Clacton/Walton-on-the-Naze via Colchester Town but NOT calling at Romford; also Class 2 Liverpool Street to or from Colchester Town calling at Romford or Liverpool Street to Clacton/Walton-on-the-Naze via Colchester Town and calling at Romford; Colchester to Colchester Town; Colchester to Clacton/Walton-on-the-Naze via Colchester Town London Fenchurch Street/London Liverpool Street and Shoeburyness (via Laindon, if B cannot be used) Colchester District
G	Anglia Internal Special Trains
H	London Liverpool Street and Cambridge, Cambridge North, Ely and King's Lynn Cambridge District (Main Line)
I	Richmond and Upminster LT
J	Wickford and Southminster, Norwich and Lowestoft Stansted Airport to former Midland or North West areas Barking to/from Gospel Oak
K	Billericay and Southend Victoria Norwich and Cambridge/Stansted Airport Ockendon Branch
L	To East Anglia Area Clapham Junction to Stratford via Camden Road
M	Orient Way Depot Stratford and Meridian Water via LVR To the Midlands and North West areas
N	Class 1 Liverpool Street to or from Clacton/Walton-on-the-Naze NOT via Colchester Town and NOT calling at Romford; also Class 2 Liverpool Street to Clacton/Walton-on-the-Naze NOT via Colchester Town BUT calling at Romford; Colchester to Clacton/Walton-on-the-Naze NOT via Colchester Town; Thorpe-le-Soken and Walton-on-the-Naze Stansted Airport or Norwich to Midland or North West areas Stratford, Camden Road to/from Richmond London Fenchurch Street to or from Laindon
O	To Southern Area Cheshunt and Hertford East (via Tottenham Hale) Richmond and Upminster LT
P	Norwich/Great Yarmouth (via Acle) London Liverpool Street to or from Norwich London Fenchurch Street/London Liverpool Street and Shoeburyness (via Laindon, if diagrammed as Class 387) Norwich District

Second Character	Route
Q	UTU trains only
R	Ipswich to Felixstowe Town/North Terminals. Norwich and Nottingham, Manchester Picadilly or Liverpool, Lime Street ECS trains to Letchworth CSD Fenchurch Street/Liverpool Street and Shoeburyness(via Rainham) Barking District & Felixstowe North Terminals
S	Norwich and Sheringham London Liverpool Street and Bishop's Stortford ECS to Shoeburyness. To Scotland Zone. Shunt movements Thameslink Route - Cambridge and Gatwick Airport / Three Bridges / Brighton via London Bridge and Quarry Lines
T	Colchester/Marks Tey and Sudbury London Liverpool Street and Chingford, London King's Cross and Cambridge North / Ely / King's Lynn
U	London Liverpool Street and Enfield Town; Thameslink Route - Cambridge and Maidstone East / Ashford slow via London Bridge and Swanley
V	To Great Western area; Romford and Upminster; ECS trains running to Ilford EMUD; Class 1 services between Great Yarmouth and Liverpool Street or vice versa.
W	Harold Wood, Ingatestone Cambridge and Ipswich
X	Special conditions for exceptional load
Y	Ipswich and Stowmarket EMU peak services ECS to form Class 1 trains, Willesden Junction to/from Clapham Junction Stratford, Camden Road to Clapham Junction Services to Paddington Crossrail Ipswich District (except Felixstowe Branch)
Z	Special trains

### Third and Fourth Character

For services running solely within Anglia, Down services normally carry EVEN NUMBERS and Up services normally carry ODD NUMBERS

### North London Line EA 1310 & EA 1320

London Overground services Westbound EVEN NUMBERS

London Overground services Eastbound ODD NUMBERS

### 1.3.2 Days of Operation

The following abbreviations are used to identify the day or days that a train operates.

Abbreviation	Description
M	Monday
T	Tuesday
W	Wednesday
Th	Thursday
F	Friday
S	Saturday
Su	Sunday
EWD	Every Week Day (Monday to Saturday)
Daily	Every day – will not accept this; there must be a separate entry for Sundays (Note – need to include reference to new ITPS processes)
<b>Suffixes</b>	
O	Adding this indicates that the train will run only on that day or those days shown
X	Adding this indicates that the train will not run on that day or those days shown
<b>General</b>	
BHX	Denotes that this train does not run on a bank holiday

### 1.3.3 Traction and Rolling Stock

Abbreviation	Description
22X	DMU classes 220/221/222
BMU	Any bi-mode diesel & electric multiple unit
DBSO	A vehicle at one end of a train formed of a locomotive, a set of either Mk II or III vehicles and the Driving Brake Second Open which accommodates a train driver and also passenger accommodation
DVT	Driving Van Trailer – accommodates a train driver and/or conductor only with a set of controls replicated from a locomotive at the opposite end of a set of coaching stock
DMU	Any diesel multiple unit (excluding classes 220/221/222)
EMU	Any electric multiple unit
ECS	Empty Coaching Stock includes empty diesel and electric multiple units
HST	Trains consisting of two Class 43 locomotives and Mk 3 passenger vehicles
LH	A passenger or parcels train hauled or propelled by one or more locomotives
LHCV	Locomotive hauled coaching vehicles
Power	Passenger stock equipped with power operated external doors

### 1.3.4 Line Codes

Abbreviation	Description
-	Default linecode as indicated in Section 2.1
1UM	Up Main from Cambridge via Platform 1
1UX	Up Main from Cambridge via Platform 1 and non-preferred route (1052 points)
AL	Arrival/Airport Line
BL	Bow Line (Bow Junction and Stratford)
C	Line C
CL	Cambridge Line
CR	Up and Down Clacton
CS	Clacton Single
D	Line D
D&UGL	Down & Up Goods Line
D&UPL	Down & Up Passenger Line
DA	Up and Down Avoiding
DBL	Down Bi directional Line
DCH	Up Trains on Down Channelsea
DCL	Down Connecting Line
DED	Down Enfield Direction (reference to reversal point at Enfield Town. See 2.1)
DEL	Down Electric Line
DG	Down Goods
DGL	Down Goods Line
DGL(N)	Down Goods Line North
DL	Down Line / Down Lowestoft
DM	Down Main
DMG	Down Main then Down Goods Loop
DML	Down Main Line
DMT	Down Main then Through Line
DNL	Down North London
DPL	Down Passenger Loop / Line
DSL	Down Slow
DST	Down Slow then Through Line
DTL	Down Temple Mills Line
DUG	Down & Up Goods
DUL	Down & Up Lowestoft
DX	Down Connecting (East Ham to Barking)
DX1	Down trains Bow Junction running ML to UBL via points 2128R
DX2	Down trains Bow Junction running ML to UBL via points 2133R
DX3	Down trains Bow Junction running via points 2134R
DX4	Down trains Bow Junction running ML to BL via points 2128R and 2134R
E	Line E
EL	Electric Line
EMM	Electric, Main, Main
ESF	Electric, Suburban Fast
FL	Fast Line
FMS	Fast, Main, Suburban
FS	Down & Up Felixstowe Single
FSE	Fast, Suburban, Electric
FSM	Fast, Suburban, Main
GL	Goods Line
IE	Independent Electric (Ilford)
IL	Independent Line (Ilford) in Up direction only via Signal L336
LS	Long Siding
LVR	Lea Valley Reversible
MEM	Main, Electric, Main



Abbreviation	Description
ML	Main Lines
ML1	Main Line departing Liverpool Street Platforms 5-9 via points 2008/2009
ML2	Main Line departing Liverpool Street Platforms 5-9 via points 2014/2015
MME	Main, Main, Electric
MSF	Main Suburban, Fast
NL	Down North London
REV	Reversible
RM	Reversible (Temple Mills E Junction and Channelsea Junction)
RL	Down North London Relief
RVL	Reversible
S	Suburban Line
S1	S line from Bethnal Green running via points 2014/2015 to Liverpool Street Platforms 5-9
S2	S line from Bethnal Green running via points 2008/2009 to Liverpool Street Platforms 5-9
SEM	Via signals 71,95 and 221
SL	Slow Line
SMF	Via signals 71,93 and 103
TL	Down & Up Trimley Loop Through Line
TLG	Through Line then Down Goods Loop
UBL	Up Bow Line
UCL	Up Connecting Line
UEL	Up Electric Line
UG	Up Goods
UGL	Up Goods Line
UL	Up Line / Up Lowestoft
UM	Up Main
UM4	Up Main then via Platform 4
UML	Up Main Line
UMT	Up Main then Through Line
UNL	Up North London
UPL	Up Passenger Loop
UX	Up trains to Cambridge running DM from 1093 or 1092 points Up Main from Cambridge via non-preferred route (1052 points)
UX1	Up Trains from Stratford running BL to DML via points 2128R
UX2	Up trains from Stratford running BL to DML via points 2133R
UX3	Up trains from Stratford running DBL to BL via points 2134R
UX4	Up trains from Stratford running DBL to DML via points 2134R/2128R
UXL	SEE XUL
W	Line W
XL	Trains via points 2156R
XDL	Trains via points 2153R/2159R .
XUL	Up trains from Bow Junction to Up ML via points 2120R

### 1.3.5 Activity and Other Codes

Abbreviation	Description
*	Suppression of traffic stop indicator
-D	Train stops to detach vehicles
-T	Train stops to attach and detach vehicles
-U	Train stops to attach vehicles
A	Train stops or shunts for other trains ahead or to pass only. Shows as an * in WTT
AE	Trains stops to attach/detach assisting locomotive.
BL	Train stops to attach or detach a banking locomotive
C	Train stops to change train crew
D	Train only stops to set down passengers. Shows as an s in NRT
E	Train stops for examination
G	NRT data to add
H	Notional Activity to prevent WTT column merge
HH	As H, where there is a third column involved
K	Passenger count point
KC	Ticket collection and examination point
KE	Ticket examination point
KF	Ticket examination point – 1 <sup>st</sup> Class only
KS	Selective ticket examination point
L	Train stops to change locomotives
N	Stop not advertised to the public
OP	Train stops for other operating reasons
OR	Train locomotive on rear of train
PR	Train propelling between points shown
R	Train stops when required. Shows as an x in NRT
RETB	Radio Electronic Token Block
RM	Trains stops for a reversing movement or driver to change ends
RR	Train stops to allow the locomotive to run-round its train
S	Trains for railway personnel only
T	Trains stops to pick up or set down passengers
TB	Train begins (Origin)
TF	Train finishes (Destination)
TS	Detail consist for TOPS Direct requested by freight operators.
TW	Train stops to pick up or set down a staff, tablet or token on Single Lines. See Section 5.2
U	Train only stops to pick up passengers. Shows as a u in NRT
W	Train stops for watering of coaches
X	Train passes another train at crossing point on single line. See Section 5.2
x{	Suppress running line information
{	Force running line indication
{ }	Force path and line indications
}	Force path indication
#	Force stop with TW

# **Activity Codes – Notes**

1. Any passenger train that stops at a location automatically generates a T Activity unless it is suppressed.
2. If an activity is required that removes the 'passenger stop' activity (T, D, U and R) from TPS, then the 'passenger stop' activity must always appear in the first activity field (e.g. T -D would be correct, -D T would not). This is because the National Rail Timetable (NRT) extract program only considers the first activity field. If it does not find a 'passenger stop' activity in the first field the time will not be extracted to appear in the NRT.
3. Up to 6 activities may be shown for each event.
4. No two activities may be duplicated at the same event.
5. At any one event, the following groups are mutually exclusive:
  - a) D, U, T, N, S, TW, OP.
  - b) -D, -U, -T.
  - c) TB, TF.
  - d) KC, KE.
6. N, R, G, D and U are only valid with Train Categories XC, XD, XI, XX, XZ, OO, OW, OL, BS, BR and blank (i.e. 'advertised' services).
7. K, KC, KE, KF, KS are only valid with Train Categories starting X or O.
8. If TF is present then none of K, KC, KE, KF, KS can be present.
9. Activity T indicates that a train stops to pick up and set down. This normally refers to passengers. Activity -T indicates that the train stops to attach and detach vehicles. At any location where a 'stop' time is shown, TPS or a similar system will assume a default activity is required unless otherwise specified. These default activities are as follows: T for trains with a Train Category starting in X or O, OP for trains with a Train Category starting in Z or E, and -T for all other trains (but see below). The default activity will be generated when the upload file is created.
10. If activities U, D, N, R, OP, S, TW, -U or -D are specified then this overrides the defaults and only the specified activities will be included in the upload file (it is not necessary to use the \* suppression code if these codes are present).
11. If a traffic activity is NOT required at a 'stop' location with activities other than U, D, N, R, OP, S, TW, -U or -D (e.g. at 'C' or 'L' stops) then the \* must be input to the TPS or similar system train specification at that location to suppress -T or T. If the \* is not added to indicate a non-traffic stop then T, -T or OP will be added to the upload file.
12. If an activity -T (only) is required on a train with a Category starting in X or O it is necessary to add a \* to the TPS spec (to suppress 'T') and positively show -T in the activity column.

## 2 Route Description

### 2.1 Planning Geography

Network Rail maintains the planning geography and issues it to Train Operators using the BPlan system. BPlan data is to be regarded as the master geography and it is the responsibility of Train Operators and nominated Network Rail users to ensure that data in their train planning systems reflects the master geography.

It is essential that all locations, times and full details such as platforms, running lines, activities, etc. comply fully with all of the following rules. Any Network Links used for buses only are to have running line defined as BUS. All data used by a specifier must be that supplied by Network Rail: use of estimated times added or amended locally will cause the trains concerned to fail validation.

In order to avoid the creation of unnecessary journey legs and associated point-to-point timings, all passing times must conform to these rules.

Locations in bold **type and underlined** are mandatory timing points i.e. apply to all trains on the specified line of route.

Locations in **bold** type are conditional timing points with a mandatory element. These are locations where all trains travelling on a specific line or in a specific direction are required to be timed at this location, which will be defined in the Notes column. For lines/directions for which the mandatory element does not apply they are to be treated as non-mandatory timing points and are only required to be shown in connection with a specific activity with one or more of the codes shown below in the Code column.

Locations in normal type are non-mandatory timing points and are required to be shown only for a specific activity with one or more of the codes shown below in the Code column.

Locations in *italic* type are not timing points but are shown for reference purposes.

Line references shown in italics e.g. *SW100* are only for reference purposes.

In the tables below, the following codes apply:

F	Only freight trains are timed here
P	Only passenger trains are timed here
S	Only stopping trains are timed here
X	Only trains crossing from one running line to another are timed here

## EA 1010 LIVERPOOL STREET TO SEVEN KINGS

TIMING POINT	DOWN	UP	CODE	NOTES
Running line codes must be shown between Liverpool Street and Shenfield				
<b>Liverpool Street</b>	ML EL S ML1 ML2			Platform detail must be shown
Wheler Street Junction		ML	X	Timing point for Up EL trains crossing to Up ML
<i>Bethnal Green West Junction</i>				<i>To/from Hackney Downs - EA1160</i>
<b>Bethnal Green</b>	ML EL FL S EMM MEM SEM	ML EL S FSM MME FMS FSE MEM ML1 ML2 S1 S2		
<i>Bethnal Green East Junction</i>				<i>To/from Hackney Downs - EA1160</i>
<b>Bow Junction</b>	ML EL BL UBL DX1 DX2 DX3 DX4	ML EL XUL		<i>To/from Gas Factory Junction - EA1400.1</i>
Bow Depot Reception		-	F	Only trains to/from Yard
Bow Yard	BL		F	Only trains to/from Yard
Pudding Mill Lane	EL	-	X	Trains to and from Crossrail Central Operating Section only.
<b>Carpenter's Road South Junction</b>	-	BL DBL ML	X	Timing point for trains to/from Bow Yard Timing point for trains which will be routed to/from Channelsea Junctions
<i>Stratford Central Junction West</i>				<i>To/from Temple Mills East Junction - EA1280.1. To/from Carpenter's Rd. North Junction - EA1150.1</i>
<b>Stratford</b>	ML* EL UML XL XDL	ML EL BL AL DML UX1 UX2 UX3 UX4 DBL		Platform detail must be shown Up linecode AL for moves via Channelsea Avoiding Loop Linecode DBL is to Carpenter's Road South Junction *Not required for trains on Platform 10A in Down direction
Stratford Signal L295 (Angel Lane Loop)	-		S	TIPLOC – STFD295. Conditional timing point for all trains which stop at this point
<b>Maryland</b>	ML EL UEL UML	ML EL DEL DML XL XDL	S X	Timing point for stopping trains. Timing point for all trains on the Down ML. Timing point for Up ML trains crossing via Stratford Country End Crossovers to EL
Forest Gate	ML EL	ML EL DML DEL	S X	Timing point for stopping trains Timing Point for Down trains crossing via Forest Gate Country End Crossovers. Timing point for Up trains crossing via Maryland East Crossovers.
<b>Forest Gate Junction</b>	ML EL	ML EL DML		<i>To/from Woodgrange Park - EA1030.1</i>
Manor Park	ML EL IL	ML EL	S X	Timing point for stopping trains. Also required for Down Main Line trains using Ilford Down Passenger Avoiding Line towards Signal L341 or Ilford Platform 4 on the Down Electric Line
Aldersbrook Sidings		IL IE	S	

## EA 1010 LIVERPOOL STREET TO SEVEN KINGS

TIMING POINT	DOWN	UP	CODE	NOTES
Ilford Sig L341 (approaching Ilford)	IL		S	TIPLOC – ILFE341. Timing point to be used for services requiring to recess on the Down Passenger Avoiding Line only
<b>Ilford</b>	ML EL	ML EL IL IE		Line Code IL for up services over short route via 2172 points returning to EL before Manor Park station. Line code IE to be used for services using Up Passenger Avoiding Line to Signal L336/points 2170 at Forest Gate Junction
Ilford Depot London End Junction	EL - to Ilford EMUD	ML EL DEL	X	
Ilford EMUD	-	-		Only trains to/from EMUD
Seven Kings	ML EL	ML EL - to Ilford EMUD	S X	Timing point for stopping trains. Also required for trains to/from Ilford EMUD and also for Down Electric Line trains using Country End Crossovers towards Down Main Line

## EA 1011 SEVEN KINGS TO IPSWICH

TIMING POINT	DOWN	UP	CODE	NOTES
Goodmayes	ML EL	ML EL	S X	Timing point for stopping trains. Also required for Up Main Line trains using Seven Kings Country End Crossovers towards Up Electric Line
Chadwell Heath	ML EL	ML EL	S X	Timing point for trains non-stop trains crossing to/from Chadwell Heath Turnback
Chadwell Heath Turnback	-	-	S	All trains using the siding TIPLOC - CHDWHTT
Romford Signal L5107		ML	S	TIPLOC - ROMF107 Conditional timing point for trains reversing to or from the Upminster Branch
Romford	ML EL	ML EL	S X	
<b>Gidea Park</b>	ML EL - to Gidea Park CS.	ML EL		
Gidea Park Stabling Lines	-	-	S	Platform detail must be shown as siding number is required for routing purposes.
Gidea Park Turnback Line	-	-	S	
Gidea Park Shunt Spur	-	-	S	
Gidea Park Junction	ML EL	ML EL -	X	Default Route Code to Gidea Park Stabling Lines only
Harold Wood	ML EL	ML EL	S	
Brentwood	ML EL	ML EL	S	

## EA 1011 SEVEN KINGS TO IPSWICH

TIMING POINT	DOWN	UP	CODE	NOTES
				Trains to be timed at this location for the following crossing moves
Shenfield London End Junction	EL	EL	X	<p>Down Direction Train on Down Main using secondary route (2250 pts) to platform 4 to be timed here with EL line code.</p> <p>Up Direction Trains from platform 1 or 2 using 2247 pts to be timed here with EL line code and '-' at Shenfield Trains from Platform 4 via 2248/2247 pts to be timed here with line code EL and ML at Shenfield</p>
Shenfield Up Loop		ML	S	
<b>Shenfield</b>	-	ML EL - \$		Platform detail must be shown \$ applies to trains for the Up passenger Loop and trains from Platform 1 and 2 crossing at 2247 pts at Shenfield London End Junction <i>To/from Southend Victoria - EA1050</i>
Shenfield Stabling Sidings		-	S	Platform detail must be shown as siding number is required for routing purposes
Shenfield Up Siding		-	S	
<i>Shenfield Junction</i>				<i>To/from Southend Victoria - EA1050 via Shenfield Platforms 1, 2 and 3</i>
<i>Shenfield Southend Loop Junction</i>				<i>To/from Southend Victoria - EA1050 via Shenfield Platforms 4 and 5</i>
Ingatestone Down Passenger Loop	-	-	S	
Ingatestone	-	-	S	Up trains starting/passing through Chelmsford Down platform to show - in running line
Church Lane Crossing	DML UML	DML UML	X	TIPLOC – CHURCHL. Timing point to be used for Single Line working
<b>Chelmsford</b>	-	- ML		Platform detail must be shown Up trains starting in Down platform to show ML in running line
Chelmsford Reception	-	-	F	
Chelmsford Down Passenger Loop	-	-	S	
Chelmsford Arbour Lane	-	- DML	X	Timing point to be used for Single Line working
Chelmsford Brick House Crossing	DML UML	DML UML	X	TIPLOC – CHLMBHC. Timing point to be used for Single Line working
Hatfield Peverel	-	-	S	
Witham Signal L763	-	-	S	Timing point to be used for trains required to reverse on the Up Main toward Witham Station
<b>Witham</b>	- UML	- DML		Platform detail must be shown Down trains using UML will be routed via Platform 1 at Kelvedon
<i>Witham Junction</i>				<i>To/from Braintree - EA1070</i>
<b>Witham Down Passenger Loop</b>	-	-		Timing point for stopping trains. Also used for trains from Platform 4 at Witham towards Colchester

## EA 1011 SEVEN KINGS TO IPSWICH

TIMING POINT	DOWN	UP	CODE	NOTES
<b>Witham Up Passenger Loop</b>		-		Trains passing through or stopping in Platform 1 to be timed at Witham Up Loop (TIPLOC - WITHMUL) where possible as this is the preferred routing for these movements
Witham Up Tamper Siding	-	-	F	TIPLOC - WITHSDG
Kelvedon	-	-	S	
<b>Marks Tey</b>	- UM	-		Platform detail must be shown Linecode UM applies only during bi-directional working on the Up Line in the Down direction
<i>Marks Tey Junction</i>				<i>To/from Sudbury - EA1080.1</i>
Marks Tey Tarmac	-	-	F	Multiple FOC Location
Marks Tey Up Passenger Loop	-	-	S	
<del>Colchester South Junction</del> <i>Colchester South Junction</i>	<del>DGL</del> <del>UGL</del> <del>GS</del>	<del>-</del> <del>DM *</del>	<del>X</del>	<del>Only trains to/from Down and Up Goods and Carriage Sidings.</del> <del>* Linecode DM applies only during bi-directional working on the Down Line in the Up Direction</del> <i>To/from Down Goods, Up Goods and Carriage Sidings</i>
Colchester Signal CO1033	-		S	TIPLOC – CLCH033. For trains required to shunt on Up Main London End behind CO1033 with an RM in the Location Activity field
Colchester Goods Loop	-	-	S	Tiploc - CLCHGL
Colchester T.C.	-	-	S	Tiploc – CLCHSTY
Colchester CS	-	-	S	Only trains to/from CS
Colchester Up Passenger Loop	-	-	S X	Timing point for stopping trains. Also used for trains from Colchester towards Marks Tey if required via this routing
Colchester Sudbury Siding		-	S	TIPLOC – CLCHUSS. Formerly Sudbury Dock
<b>Colchester</b>	- CR CR3 DA	- DM UGL DGL		Platform detail must be shown Linecode DM applies only during bi-directional working on the Down Line in the Up Direction Linecodes CR and DA apply to trains towards Colchester East Gate Junction Linecode CR3 for trains routed from Platform 3 via Up Main (avoiding Platform 4) towards Colchester East Gate Junction.
Colchester Up Clacton Siding	-	-	S	TIPLOC – CLCHUCS. Formerly Colchester Bridge Road
<i>Colchester Junction</i>				<i>To/from Clacton – EA1090</i>
Ardleigh	-	-	X	Timing point to be used for Single Line working
Manningtree Signal CO747	-		S	TIPLOC – MANN747. For trains required to shunt between Platforms 2 and 3 or vice versa with an RM in the Location Activity field
<b>Manningtree</b>	-	-		Platform detail must be shown Platform 2 to be shown for services that are required to reverse or start towards Manningtree North or East Junctions over the Up lines
<i>Manningtree South Junction</i>				<i>To/from Harwich Town - EA1120</i>



## EA 1011 SEVEN KINGS TO IPSWICH

TIMING POINT	DOWN	UP	CODE	NOTES
Manningtree Down Refuge Siding	-	-	S	TIPLOC – MANNGDS
Manningtree Signal CO750		-	S	TIPLOC – CLCH750. For trains required to shunt to and from Down Refuge Siding with an RM in the Location Activity field
Manningtree North Junction	-	-	X	Only trains to/from Harwich branch and Down trains starting from Up platform at Manningtree
Manningtree Signal CO268		-	S	TIPLOC – MANN268. Trains towards Manningtree East Junction, and which exceed the standage on the North Curve, are to be held at this location, if required. For ARS regulating purposes an Arr and Dep time are to be shown, and NOT pathing ( ) time, with an A in the Location Activity field
<b>Halifax Junction</b>	UL DL	-		
<b>Ipswich</b>	- DUL UM	UL DL		Platform detail must be shown

## EA 1012 IPSWICH TO TROWSE JUNCTION

TIMING POINT	DOWN	UP	CODE	NOTES
<b>Ipswich</b>	- DUL UM	UL DL		Platform detail must be shown
Ipswich HS	-	-	S	TIPLOC - IPSWCHS
Ipswich Signal CO822	-	-	S	Timing point for shunt moves to/from down side station sidings and Ipswich Station
Ipswich Signal CO 326			S	Required for shunting movements
Ipswich Signal CO 328			S	Required for shunting movements
Ipswich Down & Up Goods	-	-	S	TIPLOC - IPSWUDG
Ipswich Reception Freightliner	-	-	F	TIPLOC - IPSWSS
Ipswich Reception GBRF	-	-	F	TIPLOC - IPSWYGB
Ipswich Reception DB Cargo	-	-	F	TIPLOC - IPSWFDS
<b>East Suffolk Junction</b>	-	UM DUL		<i>To/From Westerfield EA 1430</i>
<b>Europa Junction</b>	-	-		<i>TIPLOC - IPSWEPJ To/from Boss Hall Junction via Bacon Factory Curve EA 1744</i>
Claydon	-	-	S	
Barham Sidings			S	
Barham Ground Signal CO1379			S	Timing point to be used for services from the Stowmarket direction required to propel (PR) into Barham Sidings
Needham Market	-	-	S	
Stowmarket Down & Up Goods Loop	-	-	S	D&UGL
<b>Stowmarket</b>	-	-		
<b>Haughley Junction</b>	-	-		<i>To/from Bury St Edmunds – EA1530</i>
Cow Green Crossover	-	-	X	Timing point to be used for Single Line working
<b>Diss</b>	-	-		
<b>Diss Reception</b>	-	-	S	
Flordon Crossover	-	-	X	Timing point to be used for Single Line working
Lakenham		-	X S	Timing point to be used for Up Services using bi-directional Down Line crossing to Up Line and for reversal moves at GPL CO1747
<b>Trowse Junction</b>	-	- DM		Linecode DM required for Up Services using bi-directional Down Line to Lakenham <i>To/from Ely – EA1580</i>

### EA 1013 TROWSE JUNCTION TO NORWICH

TIMING POINT	DOWN	UP	CODE	NOTES
<b><u>Trowse Junction</u></b>	-	- DM		Linecode DM required for Up Services using bi-directional Down Line to Lakenham <i>To/from Ely - EA1580 and Ipswich - EA1012</i>
Norwich Victoria Sidings	-		S	
Trowse Down & Up Passenger Loop	-	-	S	D&UPL TIPLOC to be used TROWSE
Trowse RT Roadstone	-	-	F	
Trowse GPL CO1760		-	S	Timing point to be used for reversal moves <i>To/from Crown Point Depot/Through Siding - EA1470</i>
<b><u>Trowse Swing Bridge</u></b>	C D	-		
<b><u>Norwich Thorpe Junction</u></b>	E C W	C D		<i>To/from Whitlingham Junction – EA1470</i>
Norwich Station Carriage Siding	-	-	S	Only trains to/from CS
<b><u>Norwich</u></b>	-	E C W		Platform detail must be shown – use platform code MS for Middle Siding

### EA 1020 CARPENTER'S ROAD SOUTH JUNCTION TO CARPENTER'S ROAD NORTH JUNCTION

TIMING POINT	DOWN	UP	CODE	NOTES
<b><u>Carpenter's Road South Junction</u></b>	-	BL DBL ML		Timing point for all trains routed via EA 1020 <i>To/from Liverpool Street - EA1010</i>
<i>Carpenter's Road North Junction</i>				<i>To/from Channelsea Junction - EA 1150</i>

### EA 1030 FOREST GATE JUNCTION TO WOODGRANGE PARK JUNCTION

TIMING POINT	DOWN	UP	CODE	NOTES
<b><u>Forest Gate Junction</u></b>	-	ML EL		<i>To/from Liverpool Street - EA1010</i>
<i>Woodgrange Park Junction</i>				<i>To/from Barking – EA1370</i>

### EA 1040 ROMFORD TO UPMINSTER

TIMING POINT	DOWN	UP	CODE	NOTES
<b><u>Romford</u></b>	-	-		Timing point for all trains routed via EA 1040 <i>To/from Ilford – EA 1011</i>
Romford Signal L450	-	-		TIPLOC - ROMF450
Emerson Park	- (Single)	- (Single)	S	
<b><u>Upminster</u></b>	- (Single)	- (Single)		

### EA 1050 SHENFIELD JUNCTION TO SOUTHEND VICTORIA

TIMING POINT	DOWN	UP	CODE	NOTES
<i>Shenfield Junction</i>				<i>To/from Shenfield Platforms 1, 2 and 3</i>
<i>Shenfield Southend Loop</i>				<i>To/from Shenfield Platforms 4 and 5</i>
<b><u>Mountnessing Junction</u></b>	-	-		
Billericay	-	-	S	
<b><u>Wickford Down Siding</u></b>	-		S	

## EA 1050 SHENFIELD JUNCTION TO SOUTHEND VICTORIA

TIMING POINT	DOWN	UP	CODE	NOTES
<b>Wickford</b>	- DML *	-		Platform detail must be shown * For ARS purposes, through trains which are reversing from the Southminster direction towards Southend Victoria and using Platform 2 must have DML shown in the Route/Line Code field
<i>Wickford Junction</i>				<i>To/from Southminster - EA1060</i>
<b>Wickford Signal L5150</b>		-	<b>S</b>	
Rayleigh	-	-	S	
<b>Hockley</b>	-	-		
Rochford	-	-	S	
Southend Airport	-	-	S	
Prittlewell	-	-	S	
Southend Up Carriage Sdgs	-	-	S	North and South
Southend Down Carriage Sdgs	-	-	S	North and South
<b>Southend Victoria</b>	-	-		Platform detail must be shown

## EA 1060 WICKFORD JUNCTION TO SOUTHMINSTER

TIMING POINT	DOWN	UP	CODE	NOTES
<i>Wickford Junction</i>				<i>To/from Wickford/Southend - EA1050.2</i>
Battlesbridge	-	-	S	
South Woodham Ferrers	-	-	S	
<b>North Fambridge</b>	-	-		
Althorne	-	-	S	
Burnham-on-Crouch	-	-	S	
Southminster CEGB	-	-	F	
<b>Southminster</b>	-	-		

## EA 1070 WITHAM JUNCTION TO BRAINTREE

TIMING POINT	DOWN	UP	CODE	NOTES
<i>Witham Junction</i>				<i>To/from Colchester/Chelmsford - EA1011.12</i>
White Notley	-	-	S	ECS trains must show an OP stop in the Up direction
Cressing	-	-	S	ECS trains must show an OP stop in the Down direction
Braintree Freeport	-	-	S	
<b>Braintree</b>	-	-		

## EA 1080 MARKS TEY TO SUDBURY

TIMING POINT	DOWN	UP	CODE	NOTES
<i>Marks Tey Junction</i>				<i>To/from Colchester/Chelmsford - EA1011.14</i>
<b>Marks Tey</b>	-	-		Platform detail must be shown
Chappel & Wakes Colne	-	-	S	
Bures	-	-	S	
<b>Sudbury</b>	-	-		

## EA 1090 COLCHESTER JUNCTION TO CLACTON

TIMING POINT	DOWN	UP	CODE	NOTES
<i>Colchester Junction</i>				<i>To/from Colchester - EA1011.16</i>
Colchester Signal CO1072		-	S	TIPLOC – CLCH072. For trains required to shunt via Up and Down Clacton with an RM in the Location Activity field
<b>East Gate Junction</b>	-	CR CR3 DA		<i>To/from Colchester Town – EA1100.1</i> Linecode CR3 for trains routed towards Platform 3 via Up Main (avoiding Platform 4) at Colchester
<i>Hythe Junction</i>				<i>To/from Colchester Town – EA1100.1</i>
<b>Hythe</b>	-	-		
Wivenhoe	-	-	S	
Alresford	-	-	S	
Great Bentley	-	-	S	
Weeley	-	-	S	
Thorpe-le-Soken Down Electric Siding	-	-	S	TIPLOC – THPLESS
<b>Thorpe-le-Soken</b>	-	-		Platform detail must be shown
<i>Thorpe-le-Soken Junction</i>				<i>To/from Walton-on-the-Naze - EA 1110.1</i>
Thorpe-le-Soken Signal CO1148		-	S	TIPLOC – THPL148. For trains required to shunt via Down Clacton with an RM in the Location Activity field
<b>Clacton-on-Sea</b>	-	-		Platform detail must be shown
Clacton CS	-	-	S	Only trains to/from CS

## EA 1100 EASTGATE JUNCTION & HYTHE JUNCTION TO COLCHESTER TOWN

TIMING POINT	DOWN	UP	CODE	NOTES
<b>East Gate Junction</b>	-	-		<i>To/from Colchester - EA1090</i>
<i>Hythe Junction</i>				<i>To/from Clacton - EA1090</i>
<i>Colne Jn</i>				
<b>Colchester Town</b>	-	-		

## EA 1110 THORPE-LE-SOKEN JUNCTION TO WALTON-ON-THE-NAZE

TIMING POINT	DOWN	UP	CODE	NOTES
<i>Thorpe-le-Soken Junction</i>				<i>To/from Thorpe-le-Soken and Clacton - EA 1090.5</i>
<b>Kirby Cross</b>	-	-		Platform 2 only to be specified for Up trains when required to use the bi-directional route
Frinton-on-Sea	-	-	S	
<b>Walton-on-the-Naze</b>	-	-		

## EA 1120 MANNINGTREE TO HARWICH TOWN

TIMING POINT	DOWN	UP	CODE	NOTES
<b>Manningtree</b>	- UH	-		Platform detail must be shown Linecode UH to be used for Down Trains using the Up Harwich Line
<i>Manningtree South Junction</i>				<i>To/from Colchester - EA1011</i>
Manningtree Signal CO196		-	S	TIPLOC – CLCH196. For trains required to shunt between Platforms 1 and 2 at Manningtree with an RM in the Location Activity field

## EA 1120 MANNINGTREE TO HARWICH TOWN

TIMING POINT	DOWN	UP	CODE	NOTES
Manningtree Signal CO751		-	S	TIPLOC – CLCH751. For trains required to shunt between Platforms 2 and 3 at Manningtree with an RM in the Location Activity field
Manningtree North Junction	-	-	X	<i>To/from Ipswich - EA1011</i>
Manningtree East Junction	-	-	X	Timing point for Down Trains from Manningtree using the Up Harwich Line or trains to/from Manningtree North Junction. <del>Trains towards Manningtree North Junction, and in excess of the standage on the North Curve (32 SLUs), are to be held at this location if required. For ARS regulating purposes an Arr and Dep time are to be shown and NOT pathing ( ) time, with an A in the Location Activity field</del>
Mistley Down Loop	-	-	S	
Mistley	-	-	S	
Wrabness	-	-	S	
Parkeston Signal P211	-	-	S	Timing point for trains required to shunt
<b>Parkeston Goods Junction</b>	-	-		
Parkeston Signal P12	-	-	S	Timing point for trains required to shunt
Parkeston Signal P21	-	-	S	Timing point for trains required to shunt
Parkeston Carless Curve Headshunt	-	-	F	Timing point for trains required to shunt TIPLOC - PRKSCRV
Parkeston Tip Sidings	-	-	F	
Parkeston Carless Refinery Headshunt	-	-	F	Timing point for trains required to shunt TIPLOC - PRKSCLH
Parkeston Carless Refinery Sidings	-	-	F	
Parkeston Yard	-	-	F	
Parkeston C S	-	-	S	
<b>Harwich International</b>	- DTS	- DH		Platform details must be shown Linecode DH to be shown for Up trains on the Down Harwich Line towards Parkeston Goods Junction Linecode DTS to be used for trains through Platform 1 towards the Down through Siding
<b>Parkeston Down Through Siding</b>	-	- DTS		All trains on the Down Through Siding to be timed here Linecode to be shown for trains towards Harwich International Platform 1
Parkeston C. T.	-	-	F	
Harwich Re Profiling Centre (Harwich Wheel Lathe)		-	S	
Dovercourt	-	-	S	
<b>Harwich Town</b>	-	-		

## EA 1130 GRIFFIN WHARF BRANCH

TIMING POINT	DOWN	UP	CODE	NOTES
<b>Halifax Junction</b>	-	-		<i>To/from Colchester - EA1011</i>
Griffin Wharf	-	-	F	

## EA 1140 IPSWICH DOCKS BRANCH

TIMING POINT	DOWN	UP	CODE	NOTES
<i>Ipswich Goods Junction</i>				<i>To/from Ipswich and Norwich - EA 1012</i>
Ipswich Lower Yard Freight Terminal	-	-	F	This route is currently out of use

## EA 1150 CHANNELSEA SOUTH JUNCTION TO STRATFORD CENTRAL JUNCTION WEST

TIMING POINT	DOWN	UP	CODE	NOTES
				<i>To/from Lea Junction Route EA 1320</i>
<b><u>Channelsea (North &amp; South) Junction</u></b>	- NLL	- AL		NLL to be used for trains routed to Stratford Platforms 1 & 2 – See Route EA 1320 AL to be used for trains routed via Channelsea Up Loop to Signal NL 1286
<i>Carpenter's Rd North Junction</i>				<i>To/from Carpenter's Rd South Junction – EA 1020</i>
<i>Stratford Central Junction West</i>				<i>To/from Liverpool Street and Ilford – EA 1010 &amp; from Coppermill Junction – EA1280</i>
<b><u>Stratford</u></b>	*	- AL		* For Down Linecodes see entry on Route EA1010  Up linecode AL to be used for trains routed via Signal NL 1292 on Channelsea Up Loop (NL 1292 is not a timing point)  Default linecode to be used for trains routed via Channelsea Curve

## EA 1160 BETHNAL GREEN EAST JUNCTION TO BISHOP'S STORTFORD

TIMING POINT	DOWN	UP	CODE	NOTES
<i>Bethnal Green West Junction</i>				<i>To/from Liverpool Street – EA1010</i>
<b><u>Bethnal Green</u></b>	FL S MSF SMF ESF	ML EL S		
<i>Bethnal Green East Junction</i>				<i>To/from Liverpool Street – EA1010</i>
<i>Bethnal Green North Junction</i>				
Cambridge Heath	S	S	S	
London Fields	S	S	S	
Reading Lane Junction	-	S	X	Timing point for trains to/from Dalston Kingsland. To/from Navarino Rd Junction – EA1180
<b><u>Hackney Downs</u></b>	-	FL S		Platform details to be shown
<i>Hackney Downs North Junction</i>				<i>To/from Enfield Town – EA1170</i>
Clapton	-	-	S	
<b><u>Clapton Junction</u></b>	-	-		<i>To/from Chingford – EA1200</i>
<b>Coppermill Junction</b>	-	-		<i>To/from Temple Mills – EA1280</i> Timing point not required on LVR
<b>Tottenham South Junction</b>	-	-		<i>To/from Sth Tottenham East Junction – EA1290</i> Timing point not required on LVR
Tottenham Hale	- LVR	- LVR	S	

## EA 1160 BETHNAL GREEN EAST JUNCTION TO BISHOP'S STORTFORD

TIMING POINT	DOWN	UP	CODE	NOTES
Northumberland Park	- LVR	- LVR	S	
Meridian Water	-	- LVR	S	
Ponders End	-	-	S	
<b>Brimsdown</b>	-	-		
Enfield Lock	-	-	S	
Waltham Cross	-	-	S	
<i>Cheshunt Junction</i>				<i>To/from Bury St Junction – EA1190</i>
<b>Cheshunt</b>	-	DS* UC*		Platform detail must be shown * A train starting from Cheshunt platform 2 and routed via the Up Southbury to Bury Street Junction will have a line code of either DS ("Down Southbury") which is the preferred route, or UC ("Up Cambridge"). See also Section 5.3
Broxbourne L5315	-		S	For trains required to reverse
<b>Broxbourne</b>	DPL -	-		Platform detail must be shown. Line code DPL to be shown for Down trains departing Platform 4 via Down Passenger Loop
Broxbourne DPL	-	DPL	S	For trains required to wait in Down Passenger Loop
Broxbourne Reception	-	-	F	Shown as Up Goods Loop
<b>Broxbourne Junction</b>	-	UPL UGL -		Line code to be shown for Up trains routed towards Platform 1. <i>To/from Hertford East – EA1210</i>
Broxbourne C.E.G.B.	-	-	F	
Broxbourne L5331(L.O.S)	-	-	F	For trains required to shunt from Broxbourne C.E.G.B.
Roydon	-	-	S	
<b>Harlow Town</b>	-	-		Platform detail must be shown
Harlow Mill Down Goods Loop	-	-	S	
Harlow Mill Yard	-	-	F	TIPLOC - HRLWMLY for DB Cargo TIPLOC - HRLWFHH for Freightliner TIPLOC – HRLWAIG for GBRF
Harlow Mill	-	-	S	
Sawbridgeworth	-	-	S	
Bishop's Stortford Reception	-	-	F	
Bishop's Stortford Up Passenger Loop	-	-	S	
Bishop's Stortford C.S.	-	-	S	
<b>Bishop's Stortford</b>	-	-		Platform detail must be shown

## EA 1161 BISHOP'S STORTFORD TO ELY NORTH JUNCTION

TIMING POINT	DOWN	UP	CODE	NOTES
<b>Bishop's Stortford</b>	-	-		Platform detail must be shown
<b>Stansted Mountfitchet</b>	-	-		<i>To/from Bishop's Stortford – EA1160</i>
Stansted Mountfitchet Down Goods Loop	-	-	S	
<i>Stansted South Junction</i>				<i>To/from Stansted Airport – EA1220.1</i>
<b>Stansted North Junction</b>	-	-		<i>To/from Stansted Airport – EA1220.1</i>
Elsenham	-	-	S	
Newport	-	-	S	

## EA 1161 BISHOP'S STORTFORD TO ELY NORTH JUNCTION

TIMING POINT	DOWN	UP	CODE	NOTES
<b>Audley End</b>	-	-		Down trains booked via Up platform must show Up platform (UPL)
Great Chesterford Loop		-	S	
Great Chesterford	-	-	S	
Whittlesford Parkway	-	-	S	
Whittlesford Down Goods Loop	-		F	
Whittlesford Signal CA540		-	S	
Whittlesford Reception	-		S	
Shelford	-	-	S	
<b>Shepreth Branch Junction</b>	<del>DSL</del> DM DS DMT DST	-		To/from Royston – EA1230 DMT & DST for trains to the Through Line or platform 4 via the Through Line only. See Appendix B for example diagrams.
Cambridge Signal CA147	- DS DST	-	S	
Cambridge Signal CA149	- DM DMT		S	
Cambridge Signal CA647	- UM UMT		S	Timing point for shunt movements only
<b>Cambridge</b>	- <del>DGL</del> DM TL DMG TLG	- UM UX 1UM 1UX DM DS		Platform detail must be shown TL & TLG for trains from the Through Line or platform 1 via the Through Line only. See Appendix B for example diagrams.
Cambridge Signal CA164		- UMT	S	
Cambridge Signal CA177	- TL		S	Required for ECS movements from Cambridge platform 1 to Cambridge Carriage Sidings North CS when platform 4 is occupied
Cambridge Reception Roads 1 & 2	- <del>DGL</del> TL TLG	- UM DS	S	Trains to/from Cambridge Reception Roads 1 & 2 Please note this location is parallel to Cambridge station and trains do not need to be timed at both locations unless shunting between them. TIPLOC – CAMBGTC for DB Cargo TIPLOC – CAMBYFL for Freightliner TIPLOC – CAMBTGB for GB Railfreight TIPLOC – CAMBREC for other operators
Cambridge Reception Sidings	- <del>DGL</del> DM DMG	- UM	S	TIPLOC – CAMBTRS
Cambridge Carriage Sidings South	-		S	
Cambridge L.H.S.	- DM DMG TL		S	
Cambridge Signal CA708		- UM UM4	S	Timing point for shunt movements only
Cambridge Signal CA180		-	S	
Mill Road Junction	- TL TLG	- UM UMT UM4	S X	Only trains to/from Cambridge Carriage Sidings (Cambridge Carriage Sidings North, Cambridge Carriage Sidings South and Cambridge Reception Sidings) CS
<del>Cambridge Signal CA722 (Cambridge Sidings North Headshunt)</del>		-	S	<del>For ECS movements between Cambridge station and Thameslink Sidings TIPLOC – CAMB722</del>
Cambridge Carriage Sidings North CS	-	-	S	Only trains to/from CS



## EA 1161 BISHOP'S STORTFORD TO ELY NORTH JUNCTION

TIMING POINT	DOWN	UP	CODE	NOTES
Cambridge Signal CA732		- UM UX	S	For ECS movements between Cambridge station and <del>Thameslink</del> Cambridge Reception Sidings or Cambridge Carriage Sidings South TIPLOC – CAMB732
Cambridge T.M.D.	-	- UM UMT UM4 UX	S	Only trains to/from T.M.D.
<b>Coldham Lane Junction</b>	-	- UM UMT UM4 UX		To/from Chippenham Junction – EA1530 UMT and UM4 for trains to the Through Line and platform 1 only. UX to be available following planned re-signalling only. See Appendix B for example diagrams.
Barnwell Junction B.P.	-	-	F	
Chesterton Junction	-	-	F	Timing point for trains routed into the yard only
<b>Cambridge North</b>	-	-		Platform detail must be shown
Chesterton Junction Yard	-	-	F	Please note that this location is parallel to Cambridge North station and trains do not need to be timed at both locations. TIPLOC – CESTRTR for DB Cargo TIPLOC – CESTFHH for Freightliner TIPLOC – CESTGBR for GB Railfreight TIPLOC – CESTRTB for other operators
Chesterton Junction Yard North Junction	-	-	X	
<del>Waterbeach</del> Waterbeach	-	-	S	
<b>Ely Dock Junction</b>	DL UL -	-		To/from Chippenham Junction – EA1540. Line code must be shown
Ely Recp.	DL	-	F	Down Goods Loop/Down Through Siding. Line code must be shown on departure
<b>Ely</b>	DL UL	UL DL -		Platform detail must be shown. Line code must be shown
Ely Up Goods Loop	DL UL	-	F	Line code must be shown Please note that this location is parallel to Ely station and trains do not need to be timed at both <del>locations. locations.</del>
Ely Papworth Sidings	-	-	F	Locations within Yard either DB Cargo, GBRf or FLHH TIPLOC dependent on traffic TIPLOC – ELYYPAW for DB Cargo TIPLOC – ELYYGBF for GBRf TIPLOC – ELYYFLT for Freightliner
<b>Ely North Junction</b>	-	DL UL		Line code must be shown. To/from Ely West Junction – EA1550, Peterborough – EA1560 and Norwich – EA1580

## EA 1162 ELY NORTH JUNCTION TO KING'S LYNN

TIMING POINT	DOWN	UP	CODE	NOTES
<b>Ely North Junction</b>	-	DL UL		Line code must be shown. To/from Ely West Junction – EA1550, Peterborough – EA1560 and Norwich – EA1580
Littleport Signal L24	-		S	Trains to be held at Littleport Signal L24 if required for pathing purposes. See Littleport Signal L22 for details.

## EA 1162 ELY NORTH JUNCTION TO KING'S LYNN

TIMING POINT	DOWN	UP	CODE	NOTES
<b>Littleport</b>	-	-		Platform detail must be shown
Littleport Signal L22	-		S	Trains to be held at Littleport Signal L22 instead of Littleport if dwell longer than one minute is required for pathing purposes. This is due to level crossing risk at Littleport. Trains which exceed the platform length may not be held in Littleport station. Trains up to 300m in length may be held at Littleport L22. Trains in excess of 300m 250m in length must be held at Littleport Signal L24.
<b>Downham Market</b>	-	-		Platform detail must be shown
Downham Market Reception	-		F	
Downham Market Signal DM8	-	-	S	For trains required to reverse
Watlington Signal MR2	-		S	Trains to be held at Watlington Signal MR2 instead of Watlington if dwell longer than one minute is required for pathing purposes. This is due to level crossing risk at Watlington
<b>Watlington</b>	-	-		Platform detail must be shown
<i>King's Lynn Harbour Junction</i>				
King's Lynn Stabling Siding	-		S	Due to be completed during May 20 timetable TIPLOC – KLYNNSS
<i>King's Lynn Junction</i>				To/from Middleton Towers – EA1270
King's Lynn Signal KL43	-	-	S	For trains required to reverse
King's Lynn T.C.	-	-	F	Only trains to/from T.C.
King's Lynn C.S.	-	-	S	Only trains to/from C.S.
<b>King's Lynn</b>	-	-		Platform detail must be shown

## EA 1170 HACKNEY DOWNS NORTH JUNCTION TO ENFIELD TOWN

TIMING POINT	DOWN	UP	CODE	NOTES
<i>Hackney Downs North Junction</i>				To/from Hackney Downs – EA1160.2
Rectory Road	-	-	S	
Stoke Newington	-	-	S	
Stamford Hill	-	-	S	
Seven Sisters Signal L5511	-	-	S	For trains required to reverse
<i>Seven Sisters Junction</i>				
<b>Seven Sisters</b>	-	-		
Bruce Grove	-	-	S	
White Hart Lane	-	-	S	
Silver Street	-	-	S	
Edmonton Green	-	-	S	
<b>Bury St Junction</b>	-	-		To/from Cheshunt Junction – EA1190
Bush Hill Park	-	-	S	
Enfield Town Signal L5531	DED		S	Timing entry for Signal L5531 – Reversal point for trains to shunt between platforms at Enfield Town. Line code for Up direction not required as signal faces in down direction.
<b>Enfield Town</b>	-	-		Platform detail must be shown

### EA 1180 READING LANE JUNCTION TO NAVARINO ROAD JUNCTION (GRAHAM ROAD CURVE)

TIMING POINT	DOWN	UP	CODE	NOTES
Reading Lane Junction	-	-	X	To/from Liverpool Street – EA1160.1 All trains in Up direction on Graham Road Curve, from North London Lines, to be shown with minimum 1min Arr/Dep time ('OP' in Activity Field) for ARS regulating purposes
Navarino Road Junction	-	-	X	To/from Camden Road – EA1320.4

### EA 1190 BURY STREET JUNCTION TO CHESHUNT JUNCTION

TIMING POINT	DOWN	UP	CODE	NOTES
<b>Bury St Junction</b>	-	-		To/from Hackney Downs – EA1170
Southbury	-	-	S	
Turkey Street	-	-	S	
Theobalds Grove	-	-	S	
Cheshunt Junction Signal L1395	-	-	S	Trains in Down direction on Southbury Loop which require ( ) time approaching Cheshunt to be shown with Arr/Dep ('A' in Activity Field) for ARS regulating purposes
Cheshunt Junction				To/from Broxbourne – EA1160

### EA 1200 CLAPTON JUNCTION TO CHINGFORD

TIMING POINT	DOWN	UP	CODE	NOTES
<b>Clapton Junction</b>	-	-		To/from Clapton – EA1160.4
St James Street	-	-	S	
<b>Walthamstow Central</b>	-	-		
Wood Street	-	-	S	
Highams Park	-	-	S	
Chingford London End CS			S	Trains to/from Chingford London End CS
Chingford Country End CS			S	Trains to/from Chingford Country End CS
<b>Chingford</b>	-	-		Platform detail must be shown

### EA 1210 BROXBORNE JUNCTION TO HERTFORD EAST

TIMING POINT	DOWN	UP	CODE	NOTES
<b>Broxbourne Junction</b>	-	-		To/from Hertford East – EA1210
Rye House	-	-	S	
St Margarets	-	-	S	
<b>Ware</b>	-	-		
<b>Hertford East</b>	-	-		Platform detail must be shown

### EA 1220 STANSTED SOUTH & NORTH JUNCTIONS TO STANSTED AIRPORT

TIMING POINT	DOWN	UP	CODE	NOTES
Stansted South Junction				To/from Stansted Mountfitchet – EA1161
<b>Stansted North Junction</b>	-	-		To/from Cambridge – EA1161
<b>Stansted East Junction</b>	-	-		
<b>Tye Green Junction</b>	-	-		

## EA 1220 STANSTED SOUTH & NORTH JUNCTIONS TO STANSTED AIRPORT

TIMING POINT	DOWN	UP	CODE	NOTES
<b>Coopers Lane Junction</b>	- DL	-		Line code DL to be shown for trains routed via Signal L1143 & the Departure Line. Default line code (-) needs to be shown for trains routed via Signal L1201 & the Arrival Line as AL is the default for ARS.
Stansted Airport Signal L1201	-	-	S	
Stansted Airport Signal L1143	-		S	
<b>Stansted Airport</b>	-	- AL		Platform detail must be shown. Line code AL to be shown for trains routed via the Arrival Line. Default line code (-) needs to be shown for trains routed via the Departure Line as DL is the default for ARS.

## EA 1230 ROYSTON TO SHEPRETH BRANCH JUNCTION

TIMING POINT	DOWN	UP	CODE	NOTES
<b>Royston</b>	-	-		<i>To/From London Northeastern Route LN125</i>
Meldreth	-	-	S	
Shepreth	-	-	S	
Foxton Exchange Sidings	-	-	F	
<b>Foxton</b>	-	-		
<b>Shepreth Branch Junction</b>	-	-		<i>To/from Cambridge – EA1161</i>

## EA 1270 KING'S LYNN JUNCTION TO MIDDLETON TOWERS

TIMING POINT	DOWN	UP	CODE	NOTES
<i>King's Lynn Junction</i>				<i>To/from Ely North Junction - EA1162</i>
Middleton Towers	-	-	F	

## EA 1280 STRATFORD CENTRAL JUNCTION TO COPPERMILL JUNCTION

TIMING POINT	DOWN	UP	CODE	NOTES
<i>Stratford Central Junction West</i>				<i>To/from Liverpool Street – EA1010&amp; from Channelsea South Junction – EA1150</i>
<b>Stratford</b>	-	BL DBL		Platform detail must be shown
<b>Temple Mills East Junction</b>	-	-		<i>To/from High Meads Junction – EA 1350</i>
Ruckholt Road Junction	-		X	Timing point in Down Direction for trains approaching Temple Mills Loop or Orient Way CS only
Temple Mills Loop	-	-	S	
Orient Way C S	-	-	S	
Lea Bridge	- LVR	-	S X	
Coppermill Junction Signal L1005	-		S	All Down trains on the Temple Mills line which require pathing time approaching Coppermill Junction to be shown with Arr/Dep ('A' in Activity Field) for ARS regulating purposes
<b>Coppermill Junction</b>	-	-		<i>To/from Tottenham Hale – EA1160</i> Timing point not required on LVR

## EA 1290 TOTTENHAM SOUTH JUNCTION TO SOUTH TOTTENHAM EAST JUNCTION

TIMING POINT	DOWN	UP	CODE	NOTES
Tottenham South Junction	-	-		To/from Coppermill Junction – EA 1160 Timing point not required on LVR
Tottenham South Junction Signal L1004		-	S	Trains in Up direction from Sth Tottenham East Junction which require pathing time approaching Coppermill Junction to be shown with Arr/Dep ('A' in Activity Field) for ARS regulating purposes
South Tottenham East Junction				To/from South Tottenham – EA1370

## EA 1300 SOUTH TOTTENHAM WEST JUNCTION TO SEVEN SISTERS JUNCTION

TIMING POINT	DOWN	UP	CODE	NOTES
South Tottenham West Junction				To/from South Tottenham – EA1370
Seven Sisters Signal L1327	-		S	Conditional timing point for trains which stop at this signal in the Down Direction
Seven Sisters Junction				To/from Seven Sisters – EA1170

## EA 1310 CAMDEN ROAD (WEST) JUNCTION TO RICHMOND

TIMING POINT	DOWN WEST BOUND	UP EAST BOUND	CODE	NOTES
<b>Camden Road (West) Junction</b>	-	-		TIPLOC – CMDNRDJ To/from Camden Road – EA1320
Kentish Town West	-	-	S	
<b>Gospel Oak</b>	-	-		Platform detail must be shown
Gospel Oak Junction				To/from Barking – EA1370
Gospel Oak Signal NL 1000		-	S	Timing point for trains reversing at Gospel Oak
<b>Hampstead Heath</b>	-	-		Timing point for all trains westbound Timing point for stopping trains only eastbound
Finchley Road & Frognal	-	-	S	
<b>West Hampstead</b>	-	-		
Brondesbury	-	-	S	
Brondesbury Park	-	-	S	
Kensal Rise	-	-	S	
Kensal Green Turnback	-	-	S	All trains using siding
<b>Kensal Green Junction</b>	-	-		To/from Harlesden Junction – Refer to NW&C Timetable Planning Rules – MD155 To/from Willesden Junction Low Level – Refer to NW&C Timetable Planning Rules – MD150
Willesden Junction Turnback	-	-	S	All trains using the siding TIPLOC - WLSDJHT
<b>Willesden Junction High Level</b>	-	-		Platform detail must be shown
Willesden Junction High Level Junction				To/from Mitre Bridge Junction – Refer to NW&C Timetable Planning Rules – MD160

## EA 1310 CAMDEN ROAD (WEST) JUNCTION TO RICHMOND

TIMING POINT	DOWN WEST BOUND	UP EAST BOUND	CODE	NOTES
<b><u>Acton Wells Junction</u></b>	-	-		To/from Acton East Junction – Refer to Western & Wales Timetable Planning Rules – GW130 To/from Dudding Hill Branch – EA 1360 To/from Willesden South West Sidings – Refer to NW&C Timetable Planning Rules – MD167
Acton Central	-	-	S	
<b><u>South Acton</u></b>	-	-		
South Acton Junction				To/from Kew East Junction – EA 1330
Gunnersbury Junction				To/from Turnham Green (LUL)
<b><u>Gunnersbury</u></b>	-	-		
Kew Gardens	-	-	S	
<b><u>Richmond</u></b>	-	-		Platform detail must be shown

## EA 1320 CAMDEN ROAD WEST JUNCTION TO STRATFORD PLATFORMS 1 AND 2

TIMING POINT	DOWN EAST BOUND	UP WEST BOUND	CODE	NOTES
<b><u>Camden Road (West) Junction</u></b>	-	-		TIPLOC - CMDNRDJ To/from Gospel Oak – EA1310 To/from Camden Jn – Refer to NW&C Timetable Planning Rules – MD145
Camden Road	-	-	S	Platform detail must be shown
Camden Road Central Junction	-	-	X	Timing point for Down trains on the Up Line and Down trains towards North London Incline TIPLOC – CMDNRCJ
Camden Road Incline Junction				To/from Cedar Junction – Refer to Kent & HS1 Timetable Planning Rules – SO420
<b><u>Camden Road East Junction</u></b>	RL NL REV	- REV		TIPLOC – CMDNREJ
Caledonian Road & Barnsbury	NL REV	REV	S	Platform detail must be shown (Platform 1 REV, Platform 2 NL)
<b><u>Westbourne Road Junction</u></b>	- UNL	NL REV		Up linecode UNL to be shown for trains towards Highbury & Islington Platform 7. TIPLOC – WSBRRJ
Highbury Transfer Track ELL Down direction only	-	-	S	Timing point on ELL transfer track for trains which change traction current in down direction. TIPLOC - HIGH321 To/from Highbury & Islington ELL- EA1325A
Highbury Transfer Track ELL Up direction only	-	-	S	Timing point on ELL transfer track for trains which change traction current in up direction TIPLOC - HIGH238 To/from Highbury & Islington ELL- EA1325A
Highbury & Islington	-	-	S	Platform detail must be shown – 7 Up (Westbound) and 8 Down (Eastbound). TIPLOC - HIGHBYA which also applies to this timing point on route EA 1325A
<b><u>Canonbury West Junction</u></b>	- UNL	- DNL		Linecode UNL is to be shown for trains towards Canonbury Platform 3 Linecode DNL is to be shown for trains towards Highbury & Islington Platform 8 To/from Finsbury Park LN110

## EA 1320 CAMDEN ROAD WEST JUNCTION TO STRATFORD PLATFORMS 1 AND 2

TIMING POINT	DOWN EAST BOUND	UP WEST BOUND	CODE	NOTES
Canonbury	-	-	S	Platform detail must be shown. TIPLOC is CNNB which also applies to this timing point on Route EA 1325A
Dalston Kingsland	-	-	S	
<b>Navarino Road Junction</b>	-	-		<i>To/from Reading Lane Junction – EA1180</i>
Hackney Central	-	-	S	
Homerton	-	-	S	
Victoria Park Junction	- UNL		X	Crossover location Down to Up Line
Hackney Wick	- UNL	-	S	Platform 1 to be shown for Down (Eastbound) trains turning round
<b>Lea Junction</b>	-	-		<i>To/from High Meads Junction – EA1340</i>
<i>Channelsea Up Loop Signal NL 1286</i>				Due to ARS specifications stops must be shown at Lea Jn (TIPLOC – LEAJ), ARS will then hold the train at Signal NL1286
<b>Channelsea (North &amp; South) Junction</b>	NLL -	- AL:		<i>To/from High Meads Junction – EA1350 and Stratford Central Junction West – EA1150</i> Up Linecode AL to be used by trains routed via Channelsea Up Loop and Signal NL 1286
<b>Stratford Platforms 1 and 2</b>	-	NLL		Platform detail must be shown

## EA 1330 SOUTH ACTON JUNCTION TO OLD & NEW KEW JUNCTIONS

TIMING POINT	DOWN	UP	CODE	NOTES
<i>South Acton Junction</i>				<i>To/from Acton Wells Junction – EA1310</i>
<b>Kew East Junction</b>	-	-		
New Kew Junction	-	-	X	Southern Region timing point for trains towards Barnes
<i>Old Kew Junction</i>				<i>Southern Region boundary</i>
Brentford	-	-	X	Southern Region timing point for trains towards Hounslow

## EA 1340 STRATFORD LEA JUNCTION TO HIGH MEADS JUNCTION

TIMING POINT	DOWN	UP	CODE	NOTES
<b>Lea Junction</b>	-	-		<i>To/from Hackney Wick – EA1320</i>
<b>High Meads Junction</b>	-	-		<i>To/from Channelsea North Junction and Temple Mills East Junction – EA1350</i>

## EA 1350 CHANNELSEA NORTH JUNCTION TO TEMPLE MILLS EAST JUNCTION

TIMING POINT	DOWN	UP	CODE	NOTES
<b>Channelsea (North) Junction</b>	-	-		<i>To/from Channelsea South Junction – EA1320</i>
<b>High Meads Junction</b>	-	-		<i>To/from Lea Junction – EA1340</i>
<b>Temple Mills East Junction</b>	-	-		<i>To/from Coppermill Junction – EA1280</i>

## EA 1360 DUDDING HILL JUNCTION TO ACTON WELLS JUNCTION

TIMING POINT	DOWN	UP	CODE	NOTES
<b><u>Dudding Hill Junction</u></b>	-	-		To/from Brent Curve Junction – Refer to East Midlands Timetable Planning Rules – LN3222 To/from Cricklewood Curve Junction – Refer to East Midlands Timetable Planning Rules – LN3219
Neasden Junction	-	-	X	To/from Neasden South Jn – Refer to NW&C Timetable Planning Rules – MD715
<b><u>Acton Canal Wharf</u></b>	-	-		To/from Willesden No.7 – Refer to NW&C Timetable Planning Rules – MD170
<b><u>Acton Wells Junction</u></b>	-	-		To/from Acton Central – EA 1310 To/from Willesden South West Sidings – Refer to NW&C Timetable Planning Rules – MD167

## EA 1370 GOSPEL OAK TO BARKING TILBURY LINE JUNCTION WEST

TIMING POINT	DOWN	UP	CODE	NOTES
<i>Gospel Oak Junction</i>				To/from Kensal Green Junction – EA1310
<b><u>Gospel Oak</u></b>	-	-		Platform detail - Through Lines or Bay Platform Number must be shown in platform field – (DTH, UTH, BAY)
Gospel Oak Signal NL 1304	-		S	Timing point for reversing moves at Gospel Oak. TIPLOC - GOSP304
Gospel Oak Signal NL 1306		-	S	
<b><u>Junction Road Junction</u></b>	-	-		To/from Carlton Road Junction – Refer to East Midlands Timetable Planning Rules – LN3210
<b><u>Upper Holloway</u></b>	-	-		
Crouch Hill	-	-	S	
<b><u>Harringay Park Junction</u></b>	-	-		To/from Harringay Junction London North Eastern Route LN165 then LN101
Harringay Green Lanes	-	-	S	
<i>South Tottenham West Junction</i>				To/from Seven Sisters Junction EA1300
<b><u>South Tottenham</u></b>	-	-		
<i>South Tottenham East Junction</i>				To/from Tottenham South Junction – EA1290
Blackhorse Road	-	-	S	
Walthamstow Queens Road	-	-	S	
<b><u>Leyton Midland Road</u></b>	-	-		
Leytonstone High Road	-	-	S	
Wanstead Park	-	-	S	
<i>Woodgrange Park Junction</i>				To/from Forest Gate Junction – EA1030
<b><u>Woodgrange Park</u></b>	-	-		
<b><u>Barking Station Junction</u></b>	-	-		
<b><u>Barking</u></b>	-	-		Barking Platform 1 only. For other platforms see EA 1380.
<i>Barking Tilbury Line Junction West</i>				To/from Barking Platforms 7/8 – EA1380



<b>EA 1380 FENCHURCH STREET TO SHOEBURYNESS</b>				
<b>TIMING POINT</b>	<b>DOWN</b>	<b>UP</b>	<b>CODE</b>	<b>NOTES</b>
<b><u>Fenchurch Street</u></b>	FL SL	-		Platform detail must be shown. Running line code must be shown
<b><u>Christian Street Junction</u></b>	-	FL SL		Running line code must be shown in Up direction
Limehouse	-	-	S	
Gas Factory Loop	-	-	S X	All trains using Loop
<b><u>Gas Factory Junction</u></b>	-	-		<i>To/from Bow Junction – EA1400</i>
<b><u>West Ham</u></b>	- DX	-		Linecode DX to be used for trains which are routed to Barking Platforms 7 and 8 via East Ham Depot Country End Junction and Signals 519 and 907
East Ham EMUD	- DX	-	S	Only trains to/from EMUD. Linecode DX to be used for trains which are routed to Barking Platforms 7 and 8 via Signals 519 and 907
<b><u>Barking</u></b>	- ML GL DCL UCL	-		Platform detail must be shown. Line code to be shown in Down direction for freight trains towards Ripple Lane/Dagenham Dock. Linecodes DCL and UCL to be used for shunting moves onto the connecting lines to Barking Upney Junction
Barking Upney Junction	-	DCL UCL	S X	Linecodes DCL and UCL to be used for shunting moves on the connecting lines to Barking
<b><u>Upminster</u></b>	-	-		Platform detail must be shown for trains which use other than normal routes. <i>To/from Ockendon – EA1410</i>
West Horndon	-	-	S	
<b><u>Laindon</u></b>	-	-		Platform detail must be shown for trains which use other than normal routes and for trains using Reversing Line (Middle Road)
Basildon	-	-	S	
<b><u>Pitsea</u></b>	-	-		Platform detail must be shown
<i>Pitsea Junction</i>				<i>To/from Grays – EA1390</i>
Benfleet	-	-	S	
<b><u>Leigh-on-Sea</u></b>	-	-		Platform detail must be shown for all trains which use other than normal routes and for trains using Reversing Line (Middle Road)
Chalkwell	-	-	S	
Westcliff-on-Sea	-	-	S	
<b><u>Southend Central</u></b>	-	-		Platform detail must be shown
Southend East	-	-	S	
Thorpe Bay	-	-	S	
<b><u>Shoeburyness Depot</u></b>	-	-		
<b><u>London End Junction</u></b>	-	-		
Shoeburyness CSD	-	-	S	Only trains to/from CSD
Shoeburyness MOD	-	-	F	
<b><u>Shoeburyness</u></b>	-	-		Platform detail must be shown

<b>EA 1390 BARKING TILBURY LINE JUNCTION EAST TO PITSEA (VIA TILBURY)</b>				
<b>TIMING POINT</b>	<b>DOWN</b>	<b>UP</b>	<b>CODE</b>	<b>NOTES</b>
<i>Barking Tilbury Line Junction East</i>				<i>To/from Barking – EA1380</i>
<b>Ripple Lane Sig. 806</b>		GL		TIPLOC - RPLL806 Timing point for trains on the Up Goods line that are not routed via Ripple Lane West SS
Ripple Lane West S.S.	GL	GL	S	TIPLOC - RPLLWSS Timing point for trains routed via West S.S. Use Ripple Lane Sig. 807 for trains routed via the Down Goods Line
<b>Ripple Lane Sig.807</b>	GL			TIPLOC - RPLL807 Timing point for trains on the Down Goods that are not routed via Ripple Lane West S.S.
<b>Ripple Lane Renwick Road Junction</b>	-	ML GL		All traffic in the Up direction must be timed here and freight only in the Down direction if running to Ripple Lane Exchange Sidings
Ripple Lane Exchange Sidings	-	-	F	<i>To/From Dagenham Junction – South East Route, Kent &amp; HS1 Area, SO400</i>
Barking Eurohub	-		S	TIPLOC – RPLLEUR timing point accessed from the Ripple Lane Down Through Siding located adjacent to Ripple Lane FLT and east of 'H Group Sidings'.
Ripple Lane Stora Sidings	-		F	
Ripple Lane Sig. FW6	-		F	
Ripple Lane F.L.T.	GL	GL	F	
Ripple Lane H Group Sidings	-		F	
Dagenham Storage Coy Sidings	-		F	
<b><u>Dagenham Dock</u></b>	-	ML GL		Linecode ML for trains routed on the Up Tilbury Line towards Barking and Linecode GL for trains routed on the Up Goods Line towards Ripple Lane yards and Barking
Dagenham Dock Reception	-	-	F	
Dagenham Dock A.R.C.	-	-	F	
Dagenham Signal UR826	-	-	F	Timing point for trains routed to/from Dagenham Down Yard. Required in schedules routed in both directions as it is the ARS boundary point.
Dagenham Down Yard	-	-	F	
<b><u>Rainham</u></b>	-	-		
<b><u>Purfleet</u></b>	- LS	-		
<b>Deep Wharf LC</b>	LS -	LS	F	All trains on Long Siding to be timed here
Purfleet Deep Water Wharf		-	F	Tiplocs PRFLFLT or PRFLTTH dependent on traffic
Purfleet Foster Yeoman	-		F	Tiplocs PRFLFYM, PRFLGBR or PRFLAF dependent on traffic
<b>Jurgens LC</b>	LS	- LS	F	All trains on long siding to be timed here
Purfleet Sig. UR1176		-	F	Departures from the long siding via 2267 crossover to the up tilbury to be timed here
West Thurrock Sidings	-		F	
West Thurrock Headshunt		- LS	F	
<b><u>West Thurrock Junction</u></b>	RVL -	-		<i>To/from Upminster – EA1410. Line code RVL to be shown for Down trains using Third Line</i>
<b><u>Grays</u></b>	-	RVL -		Line code RVL to be shown for Up trains using Third Line
Seabrooks RS	-	-	F	
Tilbury FLT	-	-	F	

## EA 1390 BARKING TILBURY LINE JUNCTION EAST TO PITSEA (VIA TILBURY)

TIMING POINT	DOWN	UP	CODE	NOTES
Tilbury PLA Grain Terminal	-	-	F	
<b><u>Tilbury Town</u></b>	-	-		
Tilbury West Junction	-	-	X	For trains to/from Tilbury Riverside I.R.F.T.
Tilbury Riverside I.R.F.T.	-	-	F	
East Tilbury	-	-	S	Platform detail must be shown
<b><u>Thames Haven Junction</u></b>	-	-		To/from Thameshaven – EA1420
<b><u>Stanford-le-Hope</u></b>	-	-		Platform detail must be shown for trains
<b><u>Pitsea</u></b>	-	-		Platform detail must be shown
<i>Pitsea Junction</i>				To/from Shoeburyness – EA1380

## EA 1400 GAS FACTORY JUNCTION TO BOW JUNCTION

TIMING POINT	DOWN	UP	CODE	NOTES
<b><u>Gas Factory Junction</u></b>	-	-		To/from Fenchurch St – EA1380
<b><u>Bow Junction</u></b>	-	-		To/from Stratford – EA1010

## EA 1410 UPMINSTER TO WEST THURROCK JUNCTION

TIMING POINT	DOWN	UP	CODE	NOTES
<b><u>Upminster</u></b>	-	-		Platform detail (1A) must be shown for trains to/from Bay Platform and also for trains which use other than normal routes To/from Barking – EA 1380
<b><u>Ockendon</u></b>	-	-		Platform detail must be shown for trains which use other than normal routes
Chafford Hundred	-	-	S	
<b><u>West Thurrock Junction</u></b>	RVL	-		To/from Grays – EA1390. Line code RVL to be shown for Down trains using Third Line

## EA 1420 THAMES HAVEN JUNCTION TO LONDON GATEWAY PORT / THAMES HAVEN SIDINGS

TIMING POINT	DOWN	UP	CODE	NOTES
<b><u>Thames Haven Junction</u></b>	-	-		To/from Grays – EA1390
<b>Upminster IECC controlled Signal UR882</b>		-		(TIPLOC - THMS882) Due to ARS requirements this is a mandatory timing point in the Up Direction. Trains which require pathing time approaching Thames Haven Junction to be shown with Arr/Dep (A* in Activity Field )
<b>London Gateway Port controlled Signal LG11</b>	-			(TIPLOC - THMSL11) Network Rail/DP World London Gateway Port boundary entry signal
<b>Upminster IECC controlled Signal UR888</b>		-		(TIPLOC - THMS888) Network Rail/DP World London Gateway Port boundary exit signal
<b>Up &amp; Dn Thames Haven Branch Signal LG15</b>	-			(TIPLOC - THMSL15)
<b>Up &amp; Dn Thames Haven Branch Signal LG14</b>		-		(TIPLOC - THMSL14)
<b>London Gateway Port Arrival Line Stop Board</b>	-			(TIPLOC - THMSLGA)
<b>London Gateway Port Departure Line</b>		-		(TIPLOC - THMSLGD)

## EA 1420 THAMES HAVEN JUNCTION TO LONDON GATEWAY PORT / THAMES HAVEN SIDINGS

TIMING POINT	DOWN	UP	CODE	NOTES
London Gateway Port	-	-		(TIPLOC - THMSDBS, THMSFLI or THMSLGB dependent on traffic)
Thames Haven TC	-	-		Marcroft and Petroplus Sidings

## EA 1430 EAST SUFFOLK JUNCTION TO OULTON BROAD NORTH

TIMING POINT	DOWN	UP	CODE	NOTES
<u>East Suffolk Junction</u>	-	-		To/from Ipswich – EA1012
<u>Boss Hall Junction</u>	-	-		To/from Europa Junction via Bacon Factory Curve EA1744
<u>Westerfield</u>	-	-		
Westerfield Junction				To/from Felixstowe – EA1440
<u>Woodbridge</u>	-	-		
<u>Melton</u>	-	-		
Wickham Market	-	-	S	Single line
<u>Saxmundham</u>	-	-		Platform details must be shown
Saxmundham Junction	-	-	X	Timing point for trains to and from Leiston and Sizewell To/from Sizewell – EA1520
<u>Darsham</u>	-	-		
<u>Halesworth</u>	-	-		
Brampton	-	-	S	Single line
<u>Beccles</u>	-	-		Passing Loop. Platform details must be shown
Oulton Broad South	-	-	S	Single line
<u>Oulton Broad North Junction</u>	-	-		To/from Lowestoft – EA1470

## EA 1440 WESTERFIELD JUNCTION TO FELIXSTOWE TOWN

TIMING POINT	DOWN	UP	CODE	NOTES
Westerfield Junction	-	-		Single line. To/from Westerfield – EA1430
<u>Derby Road</u>	-	-		Platform detail must be shown
Levington Signal FW9017	-			Intermediate Signal. Timing point for Down direction services TIPLOC – DERB017
Levington Signal FW9018		-		Intermediate Signal. Timing point for Up direction services TIPLOC – DERB018
Levington Signal FW9023	-			Intermediate Signal. Timing point for Down direction services TIPLOC – TRIM023
Levington Signal FW9024		-		Intermediate Signal. Timing point for Up direction services TIPLOC – TRIM024
<u>Gun Lane Junction</u>	FS TL	-		
Trimley Signals FW9029 & FW9031	FS TL		S	Timing point for trains booked to stop or reverse at FW9029 or FW9031 TIPLOC – TRIM029
<u>Trimley</u>	-	FS TL		To/from Felixstowe North and Central Terminals – EA1450
<u>Felixstowe Beach Junction</u>	-	-		To/from Felixstowe Beach – EA1460
<u>Felixstowe Town</u>	-	-		

## EA 1450 TRIMLEY TO FELIXSTOWE NORTH AND CENTRAL TERMINALS

TIMING POINT	DOWN	UP	CODE	NOTES
<u>Trimley</u>	-	FS TL		To/from Westerfield Junction – EA1440. Network Rail Boundary at 00m 73ch
North Quay Branch Signal NQ2	-			TIPLOC – FLXSNQ2
North Quay Branch Signal FW9074		-		TIPLOC – FLXS074
North Quay Branch Signal NQ4	-	-		TIPLOC – FLXSNQ4
Oysterbed Road Sidings	-	-		TIPLOC - FLXSOYS Arriving trains to be shown with arrival and departure times for North Terminal acceptance purposes. Departing trains from North Terminal can be timed to pass or be shown with arrival and departure times subject to inbound workings
Felixstowe New North Terminal	-	-		TIPLOC's - FLXSNEW (Felixstowe North DBC) FLXSNFL (Felixstowe North FLT) FLXSNGB (Felixstowe North GBRF)
Felixstowe Central Terminal (former North)	-	-		TIPLOC's - FLXSCDB (Felixstowe Central DBC) FLXSCFL (Felixstowe Central FLT) FLXSCGB (Felixstowe Central GBRF)

## EA 1460 FELIXSTOWE BEACH JUNCTION TO FELIXSTOWE BEACH

TIMING POINT	DOWN	UP	CODE	NOTES
<u>Felixstowe Beach Junction</u>	-	-		To/from Westerfield Junction – EA1440
<u>Felixstowe Beach</u>	-	-		
<u>Felixstowe Creek R.S.</u>	-	-		Network Rail Boundary
<u>Felixstowe South Quay Freightliner Terminal</u>	-	-		TIPLOC's - FLXSSEW (Felixstowe South DBC) FLXSSGB (Felixstowe South GBRF) FLXSSRT (Felixstowe South FL)

## EA 1470 NORWICH THORPE JUNCTION AND TROWSE SWING BRIDGE TO LOWESTOFT

TIMING POINT	DOWN	UP	CODE	NOTES
<u>Trowse Swing Bridge</u>	-	-		To/from Wensum Junction via Through Siding To/from Trowse Junction – EA1013
<u>Norwich Thorpe Junction</u>	-			See Route EA 1013 for linecodes to be used towards Norwich station To/from Norwich – EA1013
Crown Point Depot	-	-	S	
Crown Point Reception Road	-	-	S	
Crown Point Signal CP1494	-	-	S	
Wensum Junction				
<u>Whitlingham Junction</u>	-	-		To/from Cromer – EA1480
Brundall Gardens	-	-	S	
<u>Brundall</u>	-	-		
Brundall Junction				To/from Yarmouth – EA1500
Buckenham	-	-	S	

## EA 1470 NORWICH THORPE JUNCTION AND TROWSE SWING BRIDGE TO LOWESTOFT

TIMING POINT	DOWN	UP	CODE	NOTES
<b>Cantley</b>	-	-		
<b>Reedham</b>	-	-		
<i>Reedham Junction</i>				<i>To/from Yarmouth – EA1510</i>
Haddiscoe	-	-	S	
<b>Somerleyton</b>	-	-		
Oulton Broad North	-	-	S	
<b>Oulton Broad North Junction</b>	-	-		<i>To/from Westerfield Junction – EA1430</i>
<b>Coke Ovens Junction</b>	UL DL -	-		
Lowestoft Reception	-	-	F	
<b>Lowestoft</b>		UL		Platform detail must be shown

## EA 1480 WHITLINGHAM JUNCTION TO CROMER

TIMING POINT	DOWN	UP	CODE	NOTES
<b>Whitlingham Junction</b>	-	-		<i>To/from Norwich – EA1470</i>
Salhouse	-	-	S	
<b>Hoveton &amp; Wroxham</b>	-	-		Single line
Worstead	-	-	S	
North Walsham Shell U.K.	-	-	F	
<b>North Walsham</b>	-	-		
Gunton	-	-	S	
Roughton Road	-	-	S	
<i>Cromer Junction</i>				<i>To/from Sheringham – EA1490</i>
<b>Cromer</b>	-	-		Platform details must be shown

## EA 1490 CROMER TO SHERINGHAM

TIMING POINT	DOWN	UP	CODE	NOTES
<b>Cromer</b>	-	-		Platform detail must be shown
<i>Cromer Junction</i>				Single line. <i>To/from Whitlingham Junction – EA1480</i>
West Runton	-	-	S	
<b>Sheringham</b>	-	-		

A through route is available between Route EA 1490 and the North Norfolk Railway (Heritage Railway)

## EA 1500 BRUNDALL JUNCTION TO YARMOUTH

TIMING POINT	DOWN	UP	CODE	NOTES
<i>Brundall Junction</i>				Single line. <i>To/from Norwich – EA1470</i>
Lingwood	-	-	S	
<b>Acle</b>	-	-		
Yarmouth C.H.S.	-	-		
<b>Great Yarmouth</b>	-	-		Platform detail must be shown

## EA 1510 REEDHAM JUNCTION TO YARMOUTH

TIMING POINT	DOWN	UP	CODE	NOTES
<i>Reedham Junction</i>				Single line. <i>To/from Norwich – EA1470</i>
Berney Arms	-	-	S	
<b>Great Yarmouth</b>	-	-		Platform detail must be shown

### EA 1520 SAXMUNDHAM JUNCTION TO SIZEWELL

TIMING POINT	DOWN	UP	CODE	NOTES
Saxmundham Junction	-	-	X	Single line. Timing point for trains to and from Leiston and Sizewell <i>To/from Saxmundham EA1430</i>
Sizewell CEGB	-	-	F	

### EA 1530 COLDHAM LANE JUNCTION TO HAUGHLEY JUNCTION

TIMING POINT	DOWN	UP	CODE	NOTES
<u>Coldham Lane Jn</u>	-	-		<i>To/from Cambridge – EA1161</i>
<u>Dullingham</u>	-	-		
Newmarket	-	-	S	
<u>Chippenham Jn</u>	-	-		<i>To/from Ely Dock Jn – EA1540</i>
<u>Kennett</u>	-	-		
Kennett Ground Frame	-	-	F	Access from Down Bury only
Kennett Redland Siding	-	-	F	Only trains using Redland Sidings
Bury St Edmunds Recp	-	-	F	
Bury St Edmunds Sig BY19	-	-	S	Reversing trains only
<u>Bury St Edmunds</u>	-	-		
Thurston	-	-	S	
Elmswell	-	-	S	
<u>Haughley Jn</u>	-	-		<i>To/from Stowmarket EA 1012</i>

### EA 1540 CHIPPENHAM JUNCTION TO ELY DOCK JUNCTION

TIMING POINT	DOWN	UP	CODE	NOTES
<u>Chippenham Junction</u>	-	-		<i>To/from Haughley Junction – EA1530</i>
Snailwell Ground Frame Signal 1182	-	-	S	Timing point for trains from Ely direction propelling into Snailwell Sidings
Snailwell Siding	-	-	F	Access from Up Ely only
<u>Soham</u>	-	-		Single line
<u>Ely Dock Junction</u>	-	-		Single line. <i>To/from Ely – EA1161</i>

### EA 1550 ELY NORTH JUNCTION TO ELY WEST JUNCTION (ELY WEST CURVE)

TIMING POINT	DOWN	UP	CODE	NOTES
<u>Ely North Junction</u>	-	-		Single line. <i>From King's Lynn – EA1162, Peterborough – EA1560 and Trowse Junction – EA1580</i>
Ely West Junction	-	-	X	Timing point for trains via Ely West Curve. <i>To Peterborough – EA1560</i>

### EA 1560 ELY NORTH JUNCTION TO KINGS DYKE (INCLUSIVE)

TIMING POINT	DOWN	UP	CODE	NOTES
<u>Ely North Junction</u>	-	-		<i>To/from Ely – EA1161</i>
Ely West Junction	-	-	X	Timing point for trains via Ely West Curve. <i>From Ely North Junction – EA1550</i>
<u>Manea</u>	-	-		
<u>Stoney</u>	-	-		
March South	-	-	S	

## EA 1560 ELY NORTH JUNCTION TO KINGS DYKE (INCLUSIVE)

TIMING POINT	DOWN	UP	CODE	NOTES
March Down R.S.	-	-	F	
March Down Yard	-	-	S	
March Up R.S.	-	-	F	
March Up Yard		-	S	
<b>March</b>	-	-		Platform detail must be shown
<i>March East Junction</i>				To/from Wisbech/Whitemoor Yard – EA1570
<b>March West Junction</b>	-	-		To/from Wisbech/Whitemoor Yard – EA1570
<i>Three Horse Shoes</i>				
<b>Whittlesea</b>	-	-		
<i>King's Dyke</i>				Anglia/London North Eastern Boundary. Refer to LNE Timetable Planning Rules for details beyond King's Dyke To/From London North Eastern Route LN135

## EA 1570 MARCH EAST & WEST JUNCTIONS TO WISBECH

TIMING POINT	DOWN	UP	CODE	NOTES
<i>March East Junction</i>				To/from March – EA1560
<b>March West Junction</b>	-	-		To/from Peterborough – EA1560
<b>Whitemoor Junction</b>	-	-		Single line
Whitemoor Yard			F	
<b>Wisbech East</b>	-	-		This route is currently out of use

## EA 1580 ELY NORTH JUNCTION TO TROWSE JUNCTION

TIMING POINT	DOWN	UP	CODE	NOTES
		-		
<b>Ely North Junction</b>	-	-		To/from Ely – EA1161
Shippea Hill	-	-	S	
Lakenheath	-	-	S	
<b>Brandon</b>	-	-		
Brandon Down Goods Loop	-	-	F	
Brandon Down Sidings	-	-	F	
<b>Thetford</b>	-	-		
Harling Road	-	-	S	
Eccles Road Johnston's Sdg	-	-	F	
Eccles Road	-	-	S	
<b>Attleborough</b>	-	-		
Spooner Row	-	-	S	
Wymondham Sidings (Down Sidings)		-	F	
<b>Wymondham</b>	-	-		
Wymondham Lane (Up Sidings)		-	F	
<b>CO877 Signal</b>	-			Down trains only
<b>CO878 Signal</b>		-		Up trains only
Trowse GPL CO1749	-		S	Timing point to be used for reversal moves
<b>Trowse Junction</b>	-	-		To/from Norwich – EA1013



## EA 1744 BOSS HALL JUNCTION TO EUROPA JUNCTION - BACON FACTORY CURVE

TIMING POINT	DOWN	UP	CODE	NOTES
<b><u>Boss Hall Junction</u></b>	-	-		<i>To/from Oulton Broad North – EA1430.</i> TIPLOC - IPSWBHJ
Ipswich Signal CO351	-		S	TIPLOC – IPSW351 All trains on the Down Chord which dwell for pathing time to be shown with Arr/Dep times
Ipswich Signal CO352		-	S	TIPLOC – IPSW352 All trains on the Up Chord which dwell for pathing time to be shown with Arr/Dep times
<b><u>Europa Junction</u></b>	-	-		<i>To/from Trowse Junction – EA1012.</i> TIPLOC – IPSWEPJ

## 2.2 Route Opening Hours

Subject to constraints imposed by the Engineering Access Statement all routes are open continuously, except as shown below. The hours shown reflect the contractual opening hours. The actual opening hours may vary from those shown.

For a complete listing of current signal box opening hours please refer to the 'Compendium of Signal Box Opening Hours' which can be found on the Network Rail website - <https://www.networkrail.co.uk/industry-commercial-partners/information-operating-companies/>. If there is doubt about a signalbox's opening hours check with the appropriate Network Rail Operations Manager.

When the routes shown are required for services diverted under the Engineering Access Statement, opening hours will be increased as necessary on a temporary basis.

Signal boxes equipped to be switched-out during a route's opening hours are shown within the routes concerned.

PLT denotes passage of last train.

<b>EA 1360 DUDDING HILL JUNCTION TO ACTON WELLS JUNCTION</b>			
<b>ROUTE SECTION</b>	<b>SX</b>	<b>SO</b>	<b>SUN</b>
Dudding Hill Junction to Acton Wells Junction	Continuous	Continuous	00.00 – 07.00 and 22.00 to 24.00
<b>SIGNAL BOX WHICH CAN BE SWITCHED OUT</b>			
Neasden Junction *	05.00 – 21.00	05.00 – 13.00	Closed
* Equipped to be switched out but when Neasden Junction SB is closed the route between Neasden Junction and Neasden South Junction is closed			

## 3 Electrification

### 3.1 Electrification Supply Restrictions

Under normal conditions, the electrification power supplies will not place any restrictions on the use of approved electric traction. However, the Route Clearance sections of the Sectional Appendix to the Working Timetables, issued by, Network Rail do tabulate restrictions on the movement of electric trains. Refer to Table A and select Route Clearance.

Under maintenance conditions, certain sections of the electrified network may be blocked to electric traction. These restrictions are contained within the Network Rail Engineering Access Statement for the appropriate year. Additional restrictions may also arise in connection with engineering possessions requested through the Engineering Access Statement amendment procedure.

Each section of the electrified network has a finite electrical power supply capability. Intensive use over some sections of route may result in the system being overloaded. In the event of out-of-course running it may be necessary to regulate electric traction train paths to facilitate reliable traction power availability

The following restrictions are currently in force as Local Instructions in the Sectional Appendix:

<b>EA 1370 GOSPEL OAK TO BARKING TILBURY LINE JUNCTION WEST</b>
Due to the capacity of the current feeding arrangement in the Barking area, no more than two electric freight trains per hour can pass through Barking between 0600 – 1000 each day.
This restriction does not affect the running of electric passenger services or non-electric freight.
<i>Please note that this restriction refers to a combined total and is not direction dependent.</i>

<b>EA 1380 FENCHURCH STREET TO SHOEBURYNESSE</b>
Due to the capacity of the current feeding arrangement in the Barking area, no more than two electric freight trains per hour can pass through Barking between 0600 – 1000 each day.
This restriction does not affect the running of electric passenger services or non-electric freight.
<i>Please note that this restriction refers to a combined total and is not direction dependent.</i>

## 4 Rolling Stock Restrictions

### 4.1 Locomotive Route Availability

The route availability of Locomotives is contained in the Sectional Appendix to the Working Timetable. It can be accessed by line of route then using the 'Route Clearance' tab. The following tables are shown

Table D4A – Route Clearance of Diesel Locomotives Classes 8 to 47/0,2 & 3  
Table D4B - Route Clearance of Diesel Locomotives Classes 47/4 to 70 and MPV  
Table 4C - Route Clearance of Electric Locomotives

### 4.2 Passenger Stock Restrictions

See the applicable Route Clearance table for the given location in Sectional Appendix to the Working Timetables, issued by Network Rail. Refer to Table A, and select Route Clearance.

### 4.3 Freight Wagon Restrictions

See the applicable Route Clearance table for the given location in Sectional Appendix to the Working Timetables, issued by Network Rail. The Route Availability for a given location is in the 'Signalling and Remarks' column of Table A.

The route availability of Freight Containers and Swap Bodies is also contained in the Sectional Appendix to the Working Timetable.

The following table is shown

Table D5 – Route clearance of Freight Containers/Swap Bodies

Trains conveying vehicles that have a heavy axle weight or other exceptional characteristics, or vehicles conveying containers or swap bodies require an RT3973 form.

*Note: The Rule Book GERT8000 Section TW4 of defines a container as an intermodal transport unit constructed to a standard (usually specified by the ISO) suitable for conveyance by road, rail or sea.*

*Note: The Sectional Appendix does not cover the CTRL HS1. The CTRL has its own Working Manual.*

### 4.4 Freight Train Load Limits

Trailing load limits for all traction types are contained in the Freight Loads Book published by Network Rail.

*Note: It is important to understand the weight limitations that apply to trains especially over sections of heavily graded routes. Coupling strength information is also contained in the Freight Loads Book. Coupling strength is important in determining the trailing loads that trains can convey.*

### 4.5 Freight Train Length Limits

Refer to the Freight Train Loads Book published by Network Rail for the length limits of freight trains and also to Section 5.3 of this publication.

*Note: The Sectional Appendix quotes loop lengths in metres and feet. These are the absolute lengths of the loop from the signal at the outlet to the fouling point at the entrance to the loop.*

## 4.6 Engineers Trains Restrictions

Some On Track Machines (OTMs) do not reliably activate track circuits. These OTMs must use one of the following special reporting numbers 6Z09, 7Z09 or 8Z09\*. Because these OTMs do not reliably activate track circuits it is not possible to apply the headways and junction margins as outlined in the Timetable Planning Rules consistently and it is therefore not possible for Operational Planning to provide timings for these movements.

\* Source GE/RT 8000-OTM

## 4.7 Driver Only Operation Limits

Driver only operation (DOO) of passenger trains is permitted within the East Anglia Region as listed. Driver only operation of non-passenger trains – DOO (NP) – is, however, permitted on all routes.

When special trains are required to run DOO (NP) over the following routes, it must be ascertained that competent staff are available to deal with these trains at the forwarding and receiving terminals, yards, sidings etc., or where locomotive changes take place en route. Furthermore, signal boxes are to be advised of these additional DOO (NP) services, with particular reference to Empty Coaching Stock (ECS) trains.

In the table below, the following abbreviations apply:

Pass – Passenger trains with power operated sliding doors

ECS Slam – Empty Coaching Stock with slam doors

ECS Slide – Empty Coaching Stock with power operated sliding doors

NA – Not authorised

P – Permitted

# - Permitted for short notice movements when all other DOO (NP) conditions are fulfilled and all doors are locked before departure. Authorisation must be obtained from Network Rail Operations Control before this can be applied.

<b>EA 1010 LIVERPOOL STREET TO SEVEN KINGS</b>		
ROUTE SECTION	PASS	ECS SLIDE
Liverpool Street to Seven Kings	P	P

<b>EA 1011 SEVEN KINGS TO IPSWICH</b>		
ROUTE SECTION	PASS	ECS SLIDE
Seven Kings (excl) to Colchester	P	P
Colchester (excl) to Ipswich	P (for 4 and 8 car trains only)	P

<b>EA 1040 ROMFORD TO UPMINSTER</b>		
ROUTE SECTION	PASS	ECS SLIDE
Romford to Upminster	P	P

<b>EA 1050 SHENFIELD JUNCTION TO SOUTHEND VICTORIA</b>		
ROUTE SECTION	PASS	ECS SLIDE
Shenfield Junction to Southend Victoria	P	P

### EA 1060 WICKFORD JUNCTION TO SOUTHMINSTER

ROUTE SECTION	PASS	ECS SLIDE
Wickford Junction to Southminster	P (for 4 and 8 car trains only)	P

### EA 1070 WITHAM JUNCTION TO BRAINTREE

ROUTE SECTION	PASS	ECS SLIDE
Witham Junction to Braintree	P (for 4 and 8 car trains only)	P

### EA 1090 COLCHESTER JUNCTION TO CLACTON-ON-SEA

ROUTE SECTION	PASS	ECS SLIDE
Colchester Junction to East Gate Junction	P (for 4 car trains only)	P

### EA 1100 EAST GATE JUNCTION & HYTHE JUNCTION TO COLCHESTER TOWN

ROUTE SECTION	PASS	ECS SLIDE
East Gate Junction to Colchester Town	P (for 4 car trains only)	P

### EA 1150 CHANNELSEA SOUTH JUNCTION TO STRATFORD CENTRAL JUNCTION WEST

ROUTE SECTION	PASS	ECS SLIDE
Channelsea South Junction to Stratford Central Junction West	P	P

### EA 1160 BETHNAL GREEN EAST JUNCTION TO BISHOP'S STORTFORD

ROUTE SECTION	PASS	ECS SLIDE
Bethnal Green East Junction to Bishop's Stortford	P	P

### EA 1161 BISHOP'S STORTFORD TO ELY NORTH JUNCTION

ROUTE SECTION	PASS	ECS SLIDE
Bishop's Stortford (excl) to Ely North Junction	P	P

### EA 1162 ELY NORTH JUNCTION TO KING'S LYNN

ROUTE SECTION	PASS	ECS SLIDE
Ely North Junction (excl) to King's Lynn	P	P

### EA 1170 HACKNEY DOWNS NORTH JUNCTION TO ENFIELD TOWN

ROUTE SECTION	PASS	ECS SLIDE
Hackney Downs North Junction to Enfield Town	P	P

### EA 1190 BURY STREET JUNCTION TO CHESHUNT JUNCTION

ROUTE SECTION	PASS	ECS SLIDE
Bury St Junction to Cheshunt Junction	P	P

### EA 1200 CLAPTON JUNCTION TO CHINGFORD

ROUTE SECTION	PASS	ECS SLIDE
Clapton Junction to Chingford	P	P

### EA 1210 BROXBOURNE JUNCTION TO HERTFORD EAST

ROUTE SECTION	PASS	ECS SLIDE
Broxbourne Junction to Hertford East	P	P

### EA 1220 STANSTED SOUTH & NORTH JUNCTIONS TO STANSTED AIRPORT

ROUTE SECTION	PASS	ECS SLIDE
Stansted Junctions to Stansted Airport	P	P

### EA 1230 ROYSTON TO SHEPRETH BRANCH JUNCTION

ROUTE SECTION	PASS	ECS SLIDE
Royston to Shepreth Branch Junction	P	P

### EA 1280 STRATFORD CENTRAL JUNCTION TO COPPERMILL JUNCTION

ROUTE SECTION	PASS	ECS SLIDE
Stratford Central Junction to Coppermill Junction	P	P

### EA 1290 TOTTENHAM SOUTH JUNCTION TO SOUTH TOTTENHAM EAST JUNCTION

ROUTE SECTION	PASS	ECS SLIDE
Tottenham South Junction to South Tottenham East Junction	P	P

### EA 1300 SOUTH TOTTENHAM WEST JUNCTION TO SEVEN SISTERS JUNCTION

ROUTE SECTION	PASS	ECS SLIDE
South Tottenham South West Junction to Seven Sisters Junction	P	P

### EA 1310 CAMDEN ROAD WEST JUNCTION TO RICHMOND

ROUTE SECTION	PASS	ECS SLIDE
Willesden High Level to South Acton	P	P
South Acton to Gunnersbury	P	P
Gunnersbury to Richmond	P*	P

Note: \* LUL Stock only

### EA 1320 CAMDEN ROAD WEST JUNCTION TO STRATFORD PLATFORMS 1 AND 2

ROUTE SECTION	PASS	ECS SLIDE
Camden Road Junction to Richmond	P	P

### EA 1370 GOSPEL OAK JUNCTION TO BARKING TILBURY LINE JUNCTION WEST

ROUTE SECTION	PASS	ECS SLIDE
Gospel Oak Junction to Barking Tilbury Line Junction West	P	P

### EA 1350 CHANNELSEA NORTH JUNCTION TO TEMPLE MILLS EAST JUNCTION

ROUTE SECTION	PASS	ECS SLIDE
Channelsea North Junction to Temple Mills East Junction	P	P

### EA 1380 FENCHURCH STREET TO SHOEBOURNESS

ROUTE SECTION	PASS	ECS SLIDE
Fenchurch Street to Shoeburyness	P	P

### EA 1390 BARKING TILBURY LINE JUNCTION EAST TO PITSEA JUNCTION (VIA TILBURY)

ROUTE SECTION	PASS	ECS SLIDE
Barking Tilbury Line Junction East to Pitsea Junction (Via Tilbury)	P	P

### EA 1400 GAS FACTORY JUNCTION TO BOW JUNCTION

ROUTE SECTION	PASS	ECS SLIDE
Gas Factory Junction to Bow Junction	P	P

### EA 1410 UPMINSTER TO WEST THURROCK JUNCTION

ROUTE SECTION	PASS	ECS SLIDE
Upminster to West Thurrock Junction	P	P



## 5 Running Times, Margins and Allowances

Except where otherwise stated, the information in this section of the Timetable Planning Rules reflects the general rules used in developing the 1994/5 timetable (Several exceptions to the general rules were agreed for 1994/5 and exceptions may continue to be possible with the specific agreement of Network Rail in every case).

### 5.1 Sectional Running Times

The definition for Sectional Running Times (SRTs) is listed in Section 6.4 of the National TPRs.

#### 5.1.1 Source of Current SRTs

The definitive catalogue of SRTs is BPlan.

#### 5.1.2 Method of Calculation

SRTs are revised by Train Operators and Network Rail as part of the Revision of Timetable Planning Rules process outlined in Network Code Part D 2.2. Normally they will not change from one timetable to the next. Network Rail will, however, re-calculate SRTs for particular train/route combinations in the following circumstances:

- i) Where a Train Operator anticipates using a train/route combination for which no suitable SRTs exist;
- ii) Where Network Rail anticipates a change to route data, e.g. line speed changes;
- iii) Where there is evidence that the SRTs in current use do not adequately represent real train performance;
- iv) Where it is cost-effective to re-calculate all SRTs on a route at the same time as a re-calculation for a particular train type.

Network Rail will reflect the methodology and assumptions described in Section 6 of the National TPRs when calculating TPR proposals, unless and to the extent documented otherwise in respect of any given proposal. Timetable participants are encouraged to submit change proposals for review and consultation in line with the national methodology, or in line with such alternative methodology and assumptions as favoured by the proposer. NR will not seek to reject any proposal on the exclusive basis of the methodology employed, provided that the methodology and assumptions are clearly stated and demonstrably adhered to in respect of the proposal received.

SRT change proposals may be calculated in a number of ways including, but not limited to:

- a) Through actual timing of trains
- b) Use of On Train Monitoring Recorder (OTMR) systems
- c) Use of computer system actual values
- d) Use of computer simulation tools
- e) By any other agreed methodology

It is permissible to include percentage uplift in SRTs instead of applying engineering recovery allowances to be agreed by all affected parties.

A 5% allowance is included in the calculation of Class 345 SRTs to take account of the lack of explicit engineering allowances in Timetable Planning Rules.

In the event that the application of different methodologies produces conflicting proposals, a joint observation exercise should be undertaken to ascertain what happens in reality.

### 5.1.3 New and Revised Sectional Running Times

New and revised SRTs are revised by Train Operators and Network Rail on an individual basis. These should be supplied by applying the methodology described in Section 6 of the National TPRs unless another methodology is deemed appropriate, provided that the methodology and assumptions are clearly stated and demonstrably adhered to in respect of the proposal received.

### 5.1.4 Timing of Trains Consisting of Passenger Vehicles on Goods Lines

The sectional running timings quoted for trains consisting of passenger vehicles on Goods Lines reflect the speeds shown in the relevant Table 'A' of the appropriate Sectional Appendix. They do not constitute an authority to time trains conveying passengers on a Goods Lines. Nor do they reflect the permitted speeds at which a train conveying passengers can proceed. Network Rail will offer the sectional running times for trains conveying passengers on a Goods Line on a train-by-train basis. For those times please apply to the Operational Planning Department.

Operations Publications publish the authority to allow the planned operation of trains conveying passengers on Goods Lines. Before Operations Publications can grant authority they require confirmation that the track is fit for purpose and that there is a safe method of operation. Therefore, the Operational Planning Department must apply to the relevant Track Engineer and Operations Manager for confirmation of these requirements in writing. The Operational Planning Department must pass these responses to Operations Publications. The Operational Planning Department is responsible for advising Operations Publications of the requirement to operate a passenger train on a Goods Line at least 8 weeks before the day of operation.

## 5.2 Headways

The definition for Headways is listed in Section 6.5 of the National TPRs.

### 5.2.1 Headway Values

All times are in minutes. All routes are shown.

Where track circuit block (TCB) signalling applies, the standard headways for each route are shown, together with any exceptions.

AB indicates locations where absolute block signalling applies: here the headway is to be calculated from the transit time of the first of each pair of trains running between the consecutive block posts being considered. To this transit time shall be added 2 minutes to allow for the signaller's actions. Exceptions are shown as AB and appear together with the actual headway value to be used, which includes the allowance for signallers' actions. Where there is an intermediate block signal, the absolute block section concerned shall be between this signal and the next block post in advance.

Single lines and other forms of signalling are shown, together with any values applicable, where they occur.

"OTNS" or "OT" indicates One Train Working with No Train Staff; "OTS" or "OT(S)" indicates one train working with Train Staff. "NST" indicates No Signaller token. In these cases only one train is allowed in the section at one time; a second train cannot be allowed to enter the section until the first train has left the section.

"ETB" indicates Electric Token Block and "TB" indicates Tokenless Block for single lines.

"RB" indicates Radio Signalling where "long section tokens" can be issued between certain block posts during times of low traffic volume.

Light Engine movements to be treated as passenger trains when applying margins/allowances where there is a freight/passenger difference.

Headways in Anglia are applied on depart to arrive methodology.

<b>EA 1010 LIVERPOOL STREET TO SEVEN KINGS</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
Liverpool Street to Stratford	2	2	
Stratford to Forest Gate Junction	2*	2*	*3 following freight
Forest Gate Junction to Seven Kings	2	2	

<b>EA 1011 SEVEN KINGS TO IPSWICH</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
Seven Kings to Shenfield	2	2	ML and EL
Shenfield to Ipswich	3	3 *	* Trains may be planned to depart from Witham with a headway of 2 minutes if following a non stopping Class 1 service Additionally up freight trains may be planned to depart from Witham Platform 1 with a headway of 2 minutes following an up passenger service departing from or passing Witham Platform 2

<b>EA 1012 IPSWICH TO TROWSE JUNCTION</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
Ipswich to Trowse Junction	4	4	

<b>EA 1013 TROWSE JUNCTION TO NORWICH</b>			
<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
Trowse Junction to Norwich	3	3	

## EA 1020 CARPENTER'S ROAD SOUTH JUNCTION TO CARPENTER'S ROAD NORTH JUNCTION

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Carpenter's Rd South Junction to Carpenter's Rd North Junction			Single line. One train In Section
<b>Restrictions</b>			
Up train to Carpenter's Road South Junction may not pass Channelsea Junction until the preceding Up train on the Temple Mills lines has arrived at or passed Bow Junction			
Down train to Channelsea Junction may not pass Carpenter's Road South Junction until the preceding train on the Up Channelsea Loop (route code AL) has passed Channelsea Junction			

## EA 1030 FOREST GATE JUNCTION TO WOODGRANGE PARK JUNCTION

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Forest Gate Junction to Woodgrange Pk Junction	3	3	

## EA 1040 ROMFORD TO UPMINSTER

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Romford to Upminster			Single line. One train In Section

## EA 1050 SHENFIELD JUNCTION TO SOUTHEND VICTORIA

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Shenfield Junction to Southend Victoria	3	3	

## EA 1060 WICKFORD JUNCTION TO SOUTHMINSTER

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Wickford Junction to Fambridge			Single line. One train In Section
Fambridge to Southminster			Single line. One train In Section

## EA 1070 WITHAM JUNCTION TO BRAINTREE

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Witham to Braintree			Single Line. One train in section

## EA 1080 MARKS TEY JUNCTION TO SUDBURY

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Marks Tey to Sudbury			Single Line. One train in Section

## EA 1090 COLCHESTER TO CLACTON-ON-SEA

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Colchester Junction to Clacton-on-Sea	4	4	

## EA 1100 EAST GATE JUNCTION & HYTHE JUNCTION TO COLCHESTER TOWN

TIMING POINTS INCLUDED	DOWN	UP	NOTES
East Gate Junction & Hythe Junction to Colchester Town	4	4	Single Line from Colne Junction to/from Colchester Town. One train In Section

### EA 1110 THORPE-LE-SOKEN JUNCTION TO WALTON-ON-THE-NAZE

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Thorpe-le-Soken to Kirby Cross (excl)			Single line. One train In Section
Kirby Cross (excl) to Walton-on-the-Naze			Single line. One train In Section

### EA 1120 MANNINGTREE NORTH & SOUTH JUNCTIONS TO HARWICH TOWN

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Manningtree to Harwich International Port	4	4	
Harwich International Port(excl) to Harwich Town			Single line. One train In Section

### EA 1130 GRIFFIN WHARF BRANCH

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Halifax Junction to Griffin Wharf			Single line. One train In Section

### EA 1140 IPSWICH DOCKS BRANCH

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Ipswich Goods Junction to Ipswich Lower Yard			Single line. One train In Section

### EA 1150 CHANNELSEA SOUTH JUNCTION TO STRATFORD CENTRAL JUNCTION WEST

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Channelsea South Junction to Stratford Central Junction West	3	3	

### EA 1160 BETHNAL GREEN EAST JUNCTION TO BISHOP'S STORTFORD

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Bethnal Green to Clapton Jn	2	2	If there are two consecutive headways of 2 minutes, the third consecutive headway must be a minimum of 2 ½ minutes.
Clapton Junction to Bishop's Stortford	3*	3*	* Trains may be planned to arrive/depart looped platforms at Broxbourne and Harlow Town with headway of 2 minutes if in front/following a non-stopping service
Single Line between Lea Bridge to Meridian Water	\$	\$	\$ One train in section

### ~~EA 1161 BISHOP'S STORTFORD TO ELY~~

<del>TIMING POINTS INCLUDED</del>	<del>DOWN</del>	<del>UP</del>	<del>NOTES</del>
<del>Bishop's Stortford to Ely</del>	<del>3</del>	<del>3</del>	

### ~~EA 1161 ELY TO ELY NORTH JUNCTION (PASSENGER HEADWAYS)~~

<del>TIMING POINTS INCLUDED</del>	<del>DOWN</del>	<del>UP</del>	<del>NOTES</del>
<del>Ely to Ely North Junction</del>	<del>3</del>	<del>3</del>	<del>A passenger train following a freight train must use freight headways and a freight following a passenger must use passenger headways</del>

### EA 1161 ELY TO ELY NORTH JUNCTION (FREIGHT HEADWAYS)

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Ely to Ely North Junction	6	6	A passenger train following a freight train must use freight headways and a freight following a passenger must use passenger headways

### EA 1161 BISHOP'S STORTFORD TO ELY NORTH JUNCTION

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Bishop's Stortford (inclusive) to Ely North Junction (inclusive)	3*	3	* exceptions: <ul style="list-style-type: none"> <li>4 at Ely following freight</li> <li>6 at Ely North Jn for successive trains towards Peterborough line where first train is freight</li> </ul>

### EA 1162 ELY NORTH JUNCTION TO KING'S LYNN

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Ely North Junction to Littleport	6	6	
Littleport (excl) to Downham Market (excl)			Single line. One train In Section
Downham Market to Watlington	7	7	
Watlington (excl) to King's Lynn (excl)			Single line. One train In Section A second train can be in section between King's Lynn Station/Yard and Signal KL 36/45 and between Signal KL 36/45 and Watlington under normal signalling conditions. Under degraded signalling conditions, the single line section is King's Lynn (excl) and Watlington (excl)

### EA 1170 HACKNEY DOWNS NORTH JUNCTION TO ENFIELD TOWN

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Hackney Downs North Junction to Enfield Town	3	3	

### EA 1180 READING LANE JUNCTION TO NAVARINO ROAD JUNCTION (GRAHAM ROAD CURVE)

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Reading Lane Junction to Navarino Road Junction			Single line. One train In Section

### EA 1190 BURY STREET JUNCTION TO CHESHUNT JUNCTION

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Bury Street Junction to Cheshunt Junction/Bay Platform	3	3	

### EA 1200 CLAPTON JUNCTION TO CHINGFORD

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Clapton Junction to Walthamstow Central	3	2	
Walthamstow Central to Chingford	3	3	

### EA 1210 BROXBOURNE JUNCTION TO HERTFORD EAST

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Broxbourne Junction to Hertford East	3½ following non-stop, 5 following stopping	3 following non-stop, 4 following stopping	

### EA 1220 STANSTED SOUTH & NORTH JUNCTIONS TO STANSTED AIRPORT

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Stansted Mountfitchet to Stansted East Junction	4 following non-stop, 4½ following Train having stopped at Stansted Mountfitchet	2 following non-stop, 3½ following Train stopping at Stansted Mountfitchet	
Stansted North Junction to Stansted East Junction			Single line. One train In Section
Stansted East Junction to Tye Green Junction	3	2 following non-stop, 3½ following Train stopping at Stansted Mountfitchet	
Tye Green Junction to Coopers Lane Junction			Single line. One train In Section
Coopers Lane Junction to Stansted Airport	3	3	<a href="#">See Stansted Airport Platform Working Matrix, section 5.3</a>

### EA 1230 ROYSTON TO SHEPRETH BRANCH JUNCTION

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Royston to Shepreth Branch Junction	3	3	

### EA 1270 KING'S LYNN JUNCTION TO MIDDLETON TOWERS

TIMING POINTS INCLUDED	DOWN	UP	NOTES
King's Lynn Junction to Middleton Towers			Single line. One train In Section

### EA 1280 STRATFORD CENTRAL JUNCTION TO COPPERMILL JUNCTION

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Stratford Central Junction to Coppermill Junction	3	3	
Single Line between Lea Bridge to Meridian Water	\$	\$	\$ One train in section

### EA 1290 TOTTENHAM SOUTH JUNCTION TO SOUTH TOTTENHAM EAST JUNCTION

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Tottenham South Junction to South Tottenham East Junction	4	4	

### EA 1300 SOUTH TOTTENHAM WEST JUNCTION TO SEVEN SISTERS JUNCTION

TIMING POINTS INCLUDED	DOWN	UP	NOTES
South Tottenham West Junction to Seven Sisters Junction			Single line. One train In Section



## **EA 1310 CAMDEN ROAD WEST JUNCTION TO RICHMOND**

**Values in brackets are restrictive aspect headways and only applicable if the passenger train is an Arriva Rail London service.**

The bracketed values are calculated to arrive at stations on restrictive aspects but depart on green. As of 14<sup>th</sup> July 2017, only Arriva Rail London stopping services are permitted by the route to be planned using the bracketed values.

Notes:

WB — Westbound

EB — Eastbound

\$ — South Acton to Acton Wells Junction

\* — no timing allowances to be given in this section

<b>TIMING POINTS INCLUDED</b>	<b>Passenger then Freight</b>	<b>Freight then Freight</b>	<b>Passenger then Passenger</b>	<b>Freight then Passenger</b>
Richmond to Gunnersbury Junction	n/a	n/a	2	n/a-EB 2-WB
Gunnersbury Junction to Acton Wells Junction	4 ½ EB 3 WB	3 ½ \$-EB 3 \$-WB	4 ½ EB 3 WB	3 ½ \$-EB 3 \$-WB
Acton Wells Junction to Willesden Junction High Level	4 EB 3 WB	3 ½	4 EB 3 WB	3 ½
Willesden Junction High Level to Kensal Green Junction	4* EB 3 ½* WB	3 ½*	4* EB 3 ½* WB	3 ½*
Kensal Green Jn — West Hampstead	3 EB 4 ½ WB	4 EB 3 ½ WB	4 (3 ½) EB 4 ½ (3 ½) WB	4 (3) EB 3 ½ WB
West Hampstead — Gospel Oak Eastbound	4 EB	4 EB	4 (3 ½) EB	4 (3) EB
West Hampstead — Hampstead Heath Westbound	4 ½ WB	4 WB	4 ½ (4) WB	4 (3 ½) WB
Hampstead Heath — Gospel Oak Westbound	3 ½ WB	4 WB	3 ½ WB	4 (3 ½) WB
Gospel Oak — Camden Road Jn	4 EB 3 ½ WB	4 EB 4 ½ WB	4 (3 ½) EB 3 ½ WB	4 (3 ½) EB 4 ½ (3 ½) WB

## EA 1310 CAMDEN ROAD WEST JUNCTION TO RICHMOND

	FOLLOWING PASSENGER/ECS		FOLLOWING FREIGHT
TIMING POINTS INCLUDED	STOPPING	NON-STOP	
<b>DOWN DIRECTION (WESTBOUND)</b>			
Camden Road Junction (exc.) to Hampstead Heath	3	3	4
Hampstead Heath to West Hampstead	5	3	4
West Hampstead to Kensal Green Junction	4	2½	4
Kensal Green Junction to Willesden Junction High Level	TCB plan as AB	TCB plan as AB <sup>\$</sup>	TCB plan as AB
Willesden Junction High Level to Acton Wells Junction	TCB plan as AB	TCB plan as AB <sup>\$</sup>	TCB plan as AB
Acton Wells Junction to South Acton	3*	3*	3*
South Acton to Gunnersbury Junction	3	3	N/A
Gunnersbury Junction to Richmond	2	2	N/A
<b>UP DIRECTION (EASTBOUND)</b>			
Richmond to Gunnersbury Junction	2	2	N/A
Gunnersbury Junction to South Acton	4	4	N/A
South Acton to Acton Wells Junction	4	4	3½
Acton Wells Junction to Willesden Junction High Level	TCB plan as AB	TCB plan as AB <sup>\$</sup>	TCB plan as AB
Willesden Junction High Level to Kensal Green Junction	TCB plan as AB	TCB plan as AB <sup>\$</sup>	TCB plan as AB
Kensal Green Junction to West Hampstead	3	2½	4
West Hampstead to Hampstead Heath	5	3	4
Hampstead Heath to Camden Road Junction (exc.)	3½	3½	4
<b>Notes</b>			
*A stopping train cannot arrive at Acton Central until 1½ minutes after a preceding passenger train or 2 minutes after a preceding freight train has passed/departed South Acton			
<sup>\$</sup> May be planned as SRT+1 rather than SRT+2 following non-stop passenger/ECS			

## EA 1320 CAMDEN ROAD WEST JUNCTION TO STRATFORD PLATFORMS 1 AND 2

Values in brackets are restrictive aspect headways and only applicable if the passenger train is an Arriva Rail London service.

The bracketed values are calculated to arrive at stations on restrictive aspects but depart on green. As of 14<sup>th</sup> July 2017, only Arriva Rail London stopping services are permitted by the route to be planned using the bracketed values.

Notes:

WB—Westbound

EB—Eastbound

\*A headway of 3 minutes applies if the first train is going to Gospel Oak and the second is going towards Primrose Hill.

TIMING POINTS INCLUDED	Passenger then Freight	Freight then Freight	Passenger then Passenger	Freight then Passenger
Camden Road Jn to Camden Road East Jn	3½ EB 4½* WB	4 EB 4½* WB	3½ EB 4½ (3½)* WB	4 (3) EB 4½ (3½)* WB
Camden Road East Jn to Westbourne Road Jn	4	4	4 (3½)	4 (3) EB 4 (2½) WB
Westbourne Road Jn to Canonbury West Jn	5 EB 3½ WB	4	5 (2½) EB 3½ (2½) WB	4 (3)
Canonbury West Jn to Navarino Road Jn	3½ EB 4 WB	4	3½ EB 4 (3) WB	4 (3)
Navarino Road Jn to Channelsea South Jn	3½	4	3½ EB 3½ (3) WB	4 (3)
Channelsea South Junction to Stratford Central Junction West	Please refer to the entry for route EA 1150			

## EA 1320 CAMDEN ROAD WEST JUNCTION TO STRATFORD PLATFORMS 1 AND 2

TIMING POINTS INCLUDED	FOLLOWING PASSENGER/ECS	FOLLOWING FREIGHT
<b>UP DIRECTION (WESTBOUND)</b>		
Channelsea Junction to Navarino Road Junction	3	4
Navarino Road Junction to Camden Road East Junction (exc.)	3	3
Camden Road East Junction (inc.) to Camden Road Junction (inc.)	3*	4
<b>DOWN DIRECTION (EASTBOUND)</b>		
Camden Road Junction (inc.) to Camden Road East Junction (inc.)	3	4
Camden Road East Junction (exc.) to Channelsea Junction	3	3½
<b>Notes</b>		
*Successive trains Westbound towards Gospel Oak must be 4 minutes apart at Camden Road Junction		

### EA 1330 SOUTH ACTON JUNCTION TO OLD & NEW KEW JUNCTIONS

TIMING POINTS INCLUDED	DOWN	UP	NOTES
South Acton to Kew East Junction	*	*	* TCB timed as AB (one train in section)
Kew East Junction to New Kew Junction	*	*	* TCB timed as AB (one train in section)
Kew East Junction to Old Kew Junction	*	*	* TCB timed as AB (one train in section)

### EA 1340 STRATFORD LEA JUNCTION TO HIGH MEADS JUNCTION

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Lea Junction to High Meads Junction	4	4	

### EA 1350 CHANNELSEA NORTH JUNCTION TO TEMPLE MILLS EAST JUNCTION

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Channelsea North Junction to Temple Mills East Junction	4	4	

### EA 1360 DUDDING HILL JUNCTION TO ACTON WELLS JUNCTION

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Dudding Hill Junction to Acton Canal Wharf Junction	AB	AB	
Acton Canal Wharf to Acton Wells Junction	AB	AB	

### EA 1370 GOSPEL OAK JUNCTION TO BARKING TILBURY LINE JUNCTION WEST

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Gospel Oak to Upper Holloway	3	3	
Upper Holloway to Harringay Park Junction	5	5	Stopping services
Upper Holloway to Harringay Park Junction	4	4	Non-stopping services
Harringay Park Junction to South Tottenham	5	5	
South Tottenham to Leyton Midland Road	6	6	
Leyton Midland Road to Woodgrange Park	5	5	
Woodgrange Park to Barking	3	3	

### EA 1380 FENCHURCH STREET TO SHOEBURYNESS

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Fenchurch Street to Barking	2	2	
Barking to Shoeburyness	3*	3*	<p>* Trains maybe planned to arrive/depart platform 2 at Leigh-on-Sea/Laindon and the bay platforms at Southend Central with a headway of 2½ minutes.</p> <p>* When a train is planned to follow a train to/from Upminster, it may follow with a headway of 2½ minutes.</p>

### EA 1380 FENCHURCH STREET TO SHOEBURYNNESS

TIMING POINTS INCLUDED	DOWN	UP	NOTES
<b>The following headways apply for wrong road (i.e. the direction opposite to the normal direction of travel) operation under Simplified Bi-directional Signalling (SIMBIDS)</b>			
Pitsea to Leigh-on-Sea			One train in signalling section
Leigh-on-Sea to Southend Central			One train in signalling section
Southend Central to Shoeburyness London End Junction			One train in signalling section

### EA 1390 BARKING TILBURY LINE JUNCTION EAST TO PITSEA JUNCTION -VIA TILBURY

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Barking to Grays	3	3	For trains on Purfleet Long Siding please see entry in section 5.3
Grays to Pitsea	3	3	

### EA 1400 GAS FACTORY JUNCTION TO BOW JUNCTION

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Gas Factory Junction to Bow Junction			Single Line. One train in Section

### EA 1410 UPMINSTER TO WEST THURROCK JUNCTION

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Upminster (excl) to Ockendon (excl)			Single line. Normally operated as one train in Section. If required a second train can enter the single line in the same direction as the previous train when the signal controlling entry to the single line section has cleared
Ockendon (excl) to West Thurrock Junction			Single line. Normally operated as one train in Section. If required a second train can enter the single line in the same direction as the previous train when the signal controlling entry to the single line section has cleared

### EA 1420 THAMES HAVEN JUNCTION TO LONDON GATEWAY PORT / THAMES HAVEN SIDINGS

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Thames Haven Junction to London Gateway Port LG11 Signal			Under Upminster IECC control from junction towards Port. LG11 Signal under LG Port Shunters Control. Maximum of three trains permitted
London Gateway Port LG11 Signal to Thames Haven TC (Marcroft/Petroplus) Sidings			Single line. One train in Section. Under control of London Gateway Port and Thames Haven (Marcroft) sidings shunters
London Gateway Port LG11 Signal to London Gateway Arrival Line Stop Board			Single line entry. One train in Section. Under control of London Gateway Port shunters
Thames Haven TC (Marcroft/Petroplus) Sidings to Signal UR888			Single line. One train in Section. Under control of London Gateway Port and Thames Haven (Marcroft) sidings shunters release to Upminster IECC.

## EA 1420 THAMES HAVEN JUNCTION TO LONDON GATEWAY PORT / THAMES HAVEN SIDINGS

TIMING POINTS INCLUDED	DOWN	UP	NOTES
London Gateway Departure Line to Signal UR888			Single line exit towards UR888 signal. One train in Section. Under control of London Gateway Port shunters release to Upminster IECC
UR888 signal towards UR882 signal/Thames Haven Junction			Under Upminster IECC control. Maximum two trains permitted

## EA 1430 EAST SUFFOLK JUNCTION TO OULTON BROAD NORTH

TIMING POINTS INCLUDED	DOWN	UP	NOTES
East Suffolk Junction to Westerfield	4	4	
Westerfield to Woodbridge			One train in section
Woodbridge to Saxmundham			Single line
Saxmundham to Halesworth			One train in section
Halesworth to Beccles			Single line
Beccles to Oulton Broad North Junction			Single line

## EA 1440 WESTERFIELD JUNCTION TO FELIXSTOWE TOWN

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Westerfield Junction to Derby Road	-	-	Single line. One train in Section
Derby Road to Derby Road Signal FW9017	TCB*		*TCB time as AB. Single line
Derby Road Signal FW9017 to Levington Signal FW9023	TCB*		*TCB time as AB. Single line
Levington Signal FW9023 to Gun Lane Junction	TCB*		*TCB time as AB. Single line
Gun Lane Junction to Levington Signal FW9024		TCB*	*TCB time as AB. Single line
Levington Signal FW9024 to Derby Road Signal FW9018		TCB*	*TCB time as AB. Single line
Derby Road Signal FW9018 to Derby Road		TCB*	*TCB time as AB. Single line
Gun Lane Junction to Trimley <sup>\$</sup>	TCB*	TCB*	*TCB time as AB \$Section inclusive of dwell at Trimley station in the Up direction, but exclusive of dwell at Trimley station in the Down direction.
Trimley <sup>\$</sup> to Felixstowe Beach Junction			Single line. One train in Section \$Section inclusive of dwell at Trimley station in the Down direction, but exclusive of dwell at Trimley station in the Up direction.
Felixstowe Beach Junction to Felixstowe Town			Single line. One train in Section

## EA 1450 TRIMLEY TO FELIXSTOWE NORTH AND CENTRAL TERMINALS

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Trimley to Felixstowe North and Central Terminals			Single line. One train in Section

### EA 1460 FELIXSTOWE BEACH JUNCTION TO FELIXSTOWE BEACH (FOR SOUTH QUAY FREIGHTLINER TERMINAL)

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Felixstowe Beach Junction to Felixstowe Creek R.S. (Felixstowe South Quay Freightliner Terminal boundary)			Single line. One train in Section

### EA 1470 NORWICH THORPE JUNCTION TO LOWESTOFT

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Norwich to Whitlingham Junction	4	4	
Whitlingham Junction to Brundall	AB	AB	
Brundall to Cantley	AB	AB	
Cantley to Reedham Junction	AB	AB	
Reedham Junction to Reedham Swing Bridge	AB	AB	
Reedham Swing Bridge to Somerleyton	AB	AB	
Somerleyton to Oulton Broad North Junction	AB	AB	
Oulton Broad North Junction to Lowestoft	AB	AB	

### EA 1480 WHITLINGHAM JUNCTION TO CROMER

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Whitlingham Junction to Wroxham	11	11	
Wroxham to North Walsham	12		Single line. No intermediate signal in Down direction
North Walsham to Worstead		5	Single line. Intermediate block signal headway for following moves in up direction
Worstead to Wroxham		7	Single line. Intermediate block signal headway for following moves in up direction
North Walsham to Gunton	7	7	Single line. Intermediate signal
Gunton to Cromer	10	10	Single line. Intermediate signal

### EA 1490 CROMER TO SHERINGHAM

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Cromer to Sheringham			Single line. One train in Section

### EA 1500 BRUNDALL JUNCTION TO YARMOUTH

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Brundall Junction to Acle			Single line. One train in Section
Acle to Yarmouth			Single line. One train in Section

### EA 1510 REEDHAM JUNCTION TO YARMOUTH

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Reedham Junction to Yarmouth			Single line. One train in Section

### EA 1520 SAXMUNDHAM TO SIZEWELL

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Saxmundham Junction to Sizewell			Single line. One train in Section

### EA 1530 COLDHAM LANE JUNCTION TO HAUGHLEY JUNCTION

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Coldham Lane Junction to Dullingham			Single line. One train in Section
Dullingham to Chippenham Junction			Single line. One train in Section
Chippenham Junction to Kennett	*	*	*One train in Section
Kennett to Bury St Edmunds	7	8	
Bury St Edmunds to Haughley Junction	6	6	

### EA 1540 CHIPPENHAM JUNCTION TO ELY DOCK JUNCTION

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Chippenham Junction to Soham	8	8	
Soham to Ely Dock Junction			Single line. One train in Section

### EA 1550 ELY NORTH JUNCTION TO ELY WEST JUNCTION (ELY WEST CURVE)

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Ely North Junction to Ely West Junction			Single line. One train in Section

### EA 1560 ELY NORTH JUNCTION TO KINGS DYKE (INCLUSIVE)

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Ely North Junction to Kings Dyke	4	4	

### EA 1570 MARCH EAST & WEST JUNCTIONS TO WISBECH

TIMING POINTS INCLUDED	DOWN	UP	NOTES
March East Junction to Whitemoor Junction			Single line. One train in Section
March West Junction to Whitemoor Junction			Single line. One train in Section
Whitemoor Junction to Wisbech			Single line. One train in Section

### EA 1580 ELY NORTH JUNCTION TO TROWSE JUNCTION

TIMING POINTS INCLUDED	DOWN	UP	NOTES
Ely North Junction (excl) to Shippea Hill	*	*	* TCB timed as AB + 2 minutes (one train in section)
Shippea Hill to Lakenheath	*	*	* TCB timed as AB + 2 minutes (one train in section)
Lakenheath to Brandon	*	*	* TCB timed as AB + 2 minutes (one train in section)
Brandon to Thetford	*	*	* TCB timed as AB + 2 minutes (one train in section)
Thetford to Harling Road	*	*	* TCB timed as AB + 2 minutes (one train in section)
Harling Road to Eccles Road	*	*	* TCB timed as AB + 2 minutes (one train in section)
Eccles Road to Attleborough	*	*	* TCB timed as AB + 2 minutes (one train in section)
Attleborough to Spooner Row	*	*	* TCB timed as AB + 2 minutes (one train in section)
Spooner Row to Wymondham	*	*	* TCB timed as AB + 2 minutes (one train in section)
Wymondham to CO877/ CO878 Signal	4 ½ 5 ½	4 5 ½	Following non-stop passenger Following freight or stopping passenger
CO877/CO878Signal to Trowse Junction (excl)	6 7	5 6	Following passenger Following freight



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**EA 1744 BOSS HALL JUNCTION TO EUROPA JUNCTION- BACON FACTORY CURVE**

<b>TIMING POINTS INCLUDED</b>	<b>DOWN</b>	<b>UP</b>	<b>NOTES</b>
Boss Hall Junction to Europa Junction	*	*	* One train in Section

## 5.2.2 General Capacity Constraints

Where single line working is to operate or trains are to be routed to run on a line other than that normally planned for them, constraints on capacity will apply – see Engineering Access Statement.

## 5.3 Junction Margins and Station Planning Rules

The definition for Junction Margins and Station Planning Rules is listed in Section 6.6 - 6.10 of the National TPRs.

All times shown are in minutes. Where adjustments to sectional running times are shown, the value must be added to the normal SRTs shown in B Plan. Negative adjustments are specially identified.

Minimum station allowances are the minimum practical for the particular type of stock. These are shown with exceptions being listed by line of route where applicable.

Light Engine movements to be treated as passenger trains when applying margins/allowances where there is a freight/passenger difference.

STANDARD VALUES – MINIMUM		
Adjustments to Sectional Running Times		
Movements	Reason	Value
Terminating trains arriving on half minutes in final timing link (including those being ‘called on’ to attach) (with the exception of ARL & London Underground services)	Station working	{½}
Midnight Timings adjustment	We cannot publish midnight times	{-½} or {-1} at midnight TIPLOC, { ½} or {1} at next TIPLOC
Attaching/Detaching Minimum Allowance	4 or as specific TOC traincrew agreement	
Attachment of units – for services to/from King’s Cross		
Class 365/387 units	6	
Detachment of units – for services to/from King’s Cross		
Class 365/387 units	5	
Connectional Allowance	5	
Dwell Time		
Multiple Units	½	
Loco Hauled	1	
All - passenger to ECS with no change of direction	1	
Junction Margin		
Standard value	2	
Arrival followed by a conflicting departure from a station	1	
Minimum Turnarounds		
up to 4 car EMU/DMU	4 or as specific TOC traincrew agreement	
Class 378 x 5 car	6 minutes (5 minutes when forming an ECS)	
up to 8 car EMU/DMU	6 or as specific TOC traincrew agreement	
up to 12 car EMU/DMU	7 or as specific TOC traincrew agreement	
Class 710 x 4 car	5	
Class 378 or 710 x 5 car	6 minutes (5 minutes when forming an ECS)	
Class 710 x 8 car	7	
Class 378 or 710 x 9/10/12 car	8	
DVT Passenger to ECS	15	
DVT ECS to Passenger	20	
DVT Passenger to Passenger	20	
GA Class 720 x 5 car	5	
GA Class 720 x 10 car	7	
GA Class 745 x 12 car	7	
GA Class 755 x 3/4 car	4	
GTR Class 700 x 8 car	8	
GTR Class 700 x 12 car	10	
GTR Class 387 x 12 car	10	
GTR Class 387 x 8 car	9	
GTR Class 387 x 4 car	8	

#### STANDARD VALUES – MINIMUM

GTR Class 365 x 12 car	7
GTR Class 365 x 8 car	6
GTR Class 365 x 4 car	5
GTR Thameslink services to/from south of London Blackfriars	10
GTR 6 car class 717	6
Class 345 7 car	6
Class 345 9 car	7
Reversal of light loco (light engine)	2
Locomotive run round	20

The above minimum values may be reduced with operator consent if additional resources, such as a second driver, are provided.

#### Platform Re-occupation

Minimum time allowed between one train departing and another arriving in the same platform at terminal stations	3
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#### Setting back (where permitted)

2

#### Single Line Reoccupation

3

All allowances mentioned in the exceptions should be included in train times when approaching the listed timing point unless otherwise noted.

#### Peak services

Peak is defined as services arriving at London Kings Cross, St Pancras International, London Fenchurch Street & London Liverpool Street between 0700 and 0959 SX and departing London Kings Cross, St Pancras International, London Fenchurch Street & London Liverpool Street between 1600 and 1859 SX.

For all stations on EA 1310, EA 1320 and EA 1370, the AM peak is defined as services calling at that station between 0700 and 0900 SX and the PM peak between 1630 and 1900 SX.

#### THE FOLLOWING INFORMATION SHOWS THE EXCEPTIONS TO THESE STANDARD VALUES

#### EA 1010 LIVERPOOL STREET TO SEVEN KINGS

#### Liverpool Street

#### Advertised Time changes

All arrivals between 07.00 and 09.59 (SX) to be advertised to arrive 2 minutes later than WTT time. (This does not apply to London Overground services or Norwich Class 9 services)

MTR Crossrail trains which depart from Liverpool Street between 16.00 and 18.59 (SX) are to be advertised to arrive at destination 2 minutes later than WTT.

Connectional Allowance	15	
Minimum Turnrounds	5	4-car EMU/DMU turnround passenger to ECS
	7	3 to 4/9-car EMU/DMU/BMU turnround passenger to passenger 5-car 720 turnround

## EA 1010 LIVERPOOL STREET TO SEVEN KINGS

### Liverpool Street

	9	10/12-car EMU/DMU turnround passenger to passenger 10-car 720 turnround 12-car 745 turnround <b>except as below</b>
	10	12-car 745 turnround Norwich IC passenger to ECS
	15	12-car 745 turnround ECS to Norwich IC passenger
	20	12-car 745 turnround Norwich IC passenger to Norwich IC passenger
	6	4/8-car 357 turnaround <del>3/4-car 755 turnround</del>
<b>Platform reoccupation</b> A platform reoccupation matrix is shown below		
<b>Departure after conflicting arrival</b>	1	Applies if either train is formed of 10 to 12 coaches
<b>Splitting and coupling of trains permitted</b>	In all platforms for class 1, 2, 3, ECS 5, 9 & 0 <b>Class 720 5-car EMUs are not permitted to attach to or run on top of another Class 720 5-car EMU at Liverpool Street. This is owing to the position of the track circuits and track circuit signalling restrictions.</b>	

### Liverpool Street Platform Reoccupation Matrix

#### Notes for the Platform Reoccupation Matrix

\* = Trains can only access the Down Suburban Line from Platform 10 if both Platforms 9 and 10 are not occupied by more than 8 cars.

\$ = Works to remove platform 18 are planned. These values will no longer apply once works to remove platform 18 are completed.

P = Parallel/Non Conflicting.

T = Minimum turnround time values apply.

0 = Minimum of 0 minutes to be allowed between 1st move and 2nd move.

0-1 = Where possible a minimum of 1 minute to be allowed between 1st move and 2nd move (0 minutes can be used if the arrival is formed of 8 cars or less and is not arriving into an occupied platform).

2 = Minimum of 2 minutes to be allowed between 1st move and 2nd move.

3 = Minimum of 3 minutes to be allowed between 1st move and 2nd move.

4 = Minimum of 4 minutes to be allowed between 1st move and 2nd move.

a = Value of 0-1 to apply if Platform 15 is occupied by more than 8 cars. Value of 0-1 will also apply once works to remove platform 18 ~~are completed~~ **have begun and 2048 points are removed (planned to be Christmas 2020)**.

b = Value of 3 minutes to apply if Platform 15 is occupied by more than 8 cars. Value of 3 will also apply once works to remove platform 18 ~~are completed~~ **have begun and 2048 points are removed (planned to be Christmas 2020)**.

c = Value of 5 minutes to apply if 2nd move is a passenger service.

x = Only a parallel move if there are not more than two moves taking place at one time between Platforms 5-10 (Arr+Dep).

The Linecodes shown below also appear in Section 2.1 of this document.

ML1 = Down ML trains running via 2008/2009 points.

ML2 = Down ML trains running via 2014/2015 points.

S1 = Up S trains running via 2014/2015 points.

S2 = Up S trains running via 2008/2009 points.

1st Move	2nd Move >>>																															
	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	
	1 S	2 S	3 S	4 S	5 S	5 S2	5 ML	6 S	6 S2	6 ML	7 S	7 S2	7 ML	8 S	8 S2	8 ML	9 S	9 S2	9 ML	10 S	10 ML	11 ML	12 ML	13 ML	13 EL	14 ML	14 EL	15 EL	16 EL	17 EL	18 EL <sup>s</sup>	
					S1			S1			S1			S1			S1															
Arr 1 S	2	2	2	2	2	2	P	2	2	P	2	2	P	2	2	P	2	2	P	2	P	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Arr 2 S	2	2	2	2	2	2	P	2	2	P	2	2	P	2	2	P	2	2	P	2	P	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Arr 3 S	2	2	2	2	2	2	P	2	2	P	2	2	P	2	2	P	2	2	P	2	P	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Arr 4 S	2	2	2	2	2	2	P	2	2	P	2	2	P	2	2	P	2	2	P	2	P	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Arr 5 S / S1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Arr 5 S2	2	2	2	2	2	2	2	2	2	Px	2	2	Px	2	2	Px	2	2	Px	2	Px	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Arr 5 ML	P	P	P	P	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	P	2	P	P	P	P	P <sup>s</sup>
Arr 6 S / S1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Arr 6 S2	2	2	2	2	2	2	2	2	2	2	2	2	Px	2	2	Px	2	2	Px	2	Px	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Arr 6 ML	P	P	P	P	2	Px	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	P	2	P	P	P	P	P	P <sup>s</sup>
Arr 7 S / S1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Arr 7 S2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	Px	2	2	Px	2	Px	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Arr 7 ML	P	P	P	P	2	Px	2	2	Px	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	P	2	P	P	P	P	P	P <sup>s</sup>
Arr 8 S / S1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Arr 8 S2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	Px	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Arr 8 ML	P	P	P	P	2	Px	2	2	Px	2	2	Px	2	2	2	2	2	2	2	2	2	2	2	2	P	2	P	P	P	P	P	P <sup>s</sup>
Arr 9 S / S1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Arr 9 S2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	Px	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Arr 9 ML	P	P	P	P	2	Px	2	2	Px	2	2	Px	2	2	2	2	2	2	2	2	2	2	2	2	P	2	P	P	P	P	P	P <sup>s</sup>
Arr 10 S	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	P	2	P	P	P	P	P	P <sup>s</sup>
Arr 10 ML	P	P	P	P	2	Px	2	2	Px	2	2	Px	2	2	Px	2	2	Px	2	2	2	2	2	2	P	2	P	P	P	P	P	P <sup>s</sup>
Arr 11 ML	P	P	P	P	P	P	2	P	P	2	P	P	2	P	P	2	P	P	2	P	2	2	2	2	P	2	P	P	P	P	P	P <sup>s</sup>
Arr 12 ML	P	P	P	P	P	P	2	P	P	2	P	P	2	P	P	2	P	P	2	P	2	2	2	2	P	2	P	P	P	P	P	P <sup>s</sup>
Arr 13 ML	P	P	P	P	P	P	2	P	P	2	P	P	2	P	P	2	P	P	2	P	2	2	2	2	2	2	2	2	2	P	P	P <sup>s</sup>
Arr 13 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	2	2	2	2	2	2	2	2	2 <sup>s</sup>
Arr 14 ML	P	P	P	P	P	P	2	P	P	2	P	P	2	P	P	2	P	P	2	P	2	2	2	2	2	2	2	2	P	P	P	P <sup>s</sup>
Arr 14 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	2	2	2	2	2	2	2	2	2 <sup>s</sup>
Arr 15 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	2	P	2	2	2	2	2	2 <sup>s</sup>
Arr 16 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	2	P	2	2	2	2	2	2 <sup>s</sup>
Arr 17 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	2	P	2	2	2	2	2	2 <sup>s</sup>
Arr 18 EL <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	2 <sup>s</sup>	P <sup>s</sup>	2 <sup>s</sup>	2 <sup>s</sup>	2 <sup>s</sup>	2 <sup>s</sup>	2 <sup>s</sup>	2 <sup>s</sup>	

1 <sup>st</sup> Move	2nd Move >>>																															
	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	Arr	
	1 S	2 S	3 S	4 S	5 S	5 S2	5 ML	6 S	6 S2	6 ML	7 S	7 S2	7 ML	8 S	8 S2	8 ML	9 S	9 S2	9 ML	10 S	10 ML	11 ML	12 ML	13 ML	13 EL	14 ML	14 EL	15 EL	16 EL	17 EL	18 EL <sup>s</sup>	
					S1			S1			S1			S1			S1															
Dep 1 S	3	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Dep 2 S	3	3	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Dep 3 S	3	3	3	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Dep 4 S	3	3	3	3	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Dep 5 S	3	3	3	3	3	3	4	Px	3	Px	Px	3	Px	Px	3	Px	Px	3	Px	Px	Px	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Dep 5 ML / ML1	P	P	P	P	3	3	4	3	3	Px	3	3	Px	3	3	Px	3	3	Px	3	Px	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Dep 5 ML2	P	P	P	P	3	3	4	3	3	4	3	3	4	3	3	4	3	3	4	3	4	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Dep 6 S	3	3	3	3	3	3	4	3	3	4	Px	3	Px	Px	3	Px	Px	3	Px	Px	Px	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Dep 6 ML / ML1	P	P	P	P	3	3	4	3	3	4	3	3	Px	3	3	Px	3	3	Px	3	Px	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Dep 6 ML2	P	P	P	P	3	Px	4	3	3	4	3	3	4	3	3	4	3	3	4	3	4	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Dep 7 S	3	3	3	3	3	3	4	3	3	4	3	3	4	Px	3	Px	Px	3	Px	Px	Px	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Dep 7 ML / ML1	P	P	P	P	3	3	4	3	3	4	3	3	4	3	3	Px	3	3	Px	3	Px	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Dep 7 ML2	P	P	P	P	3	Px	4	3	Px	4	3	3	4	3	3	4	3	3	4	3	4	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Dep 8 S	3	3	3	3	3	3	4	3	3	4	3	3	4	3	3	4	3	3	4	3	Px	Px	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Dep 8 ML1	P	P	P	P	3	3	4	3	3	4	3	3	4	3	3	4	3	3	4	3	Px	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Dep 8 ML / ML2	P	P	P	P	3	Px	4	3	Px	4	3	Px	4	3	3	4	3	3	4	3	4	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Dep 9 S	3	3	3	3	3	3	4	3	3	4	3	3	4	3	3	4	3	3	4	Px	Px	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Dep 9 ML1	P	P	P	P	3	3	4	3	3	4	3	3	4	3	3	4	3	3	4	3	Px	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Dep 9 ML / ML2	P	P	P	P	3	Px	4	3	Px	4	3	Px	4	3	3	4	3	3	4	3	4	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Dep 10 S*	3	3	3	3	3	3	4	3	3	4	3	3	4	3	3	4	3	3	4	3	4	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Dep 10 ML	P	P	P	P	3	Px	4	3	Px	4	3	Px	4	3	Px	4	3	Px	4	3	4	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Dep 11 ML	P	P	P	P	P	P	4	P	P	4	P	P	4	P	P	4	P	P	4	P	4	3	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Dep 12 ML	P	P	P	P	P	P	4	P	P	4	P	P	4	P	P	4	P	P	4	P	4	3	3	P	P	P	P	P	P	P	P	P <sup>s</sup>
Dep 13 ML	P	P	P	P	P	P	4	P	P	4	P	P	4	P	P	4	P	P	4	P	4	3	3	3	3	P	P	P	P	P	P	P <sup>s</sup>
Dep 13 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	3	3	3	3	3	3	3	3	P <sup>s</sup>
Dep 14 ML	P	P	P	P	P	P	4	P	P	4	P	P	4	P	P	4	P	P	4	P	4	3	3	3	3	3	3	3	3	3	3	P <sup>s</sup>
Dep 14 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	3	3	3	3	3	3	3	3	P <sup>s</sup>
Dep 15 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	3	P	3	3	3	3	3	P <sup>s</sup>
Dep 16 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	3	P	3	3	3	3	Pb	Pb <sup>s</sup>
Dep 17 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	3	P	3	3	3	3	3	3	Pb <sup>s</sup>
Dep 18 EL <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	3 <sup>s</sup>	P <sup>s</sup>	3 <sup>s</sup>	3 <sup>s</sup>	3 <sup>s</sup>	3 <sup>s</sup>	3 <sup>s</sup>	

1 <sup>st</sup> Move	2nd Move >>>																															
	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep	Dep
	1 S	2 S	3 S	4 S	5 S	5 ML	5	6 S	6 ML	6	7 S	7 ML	7	8 S	8	8 ML	9 S	9	9 ML	10S	10 ML	11 ML	12 ML	13 ML	13 EL	14 ML	14 EL	15 EL	16 EL	17 EL	18 EL <sup>s</sup>	
						ML1	ML2		ML1	ML2		ML1	ML2		ML1	ML2		ML1	ML2	*												
Arr 1 S	T	0-1	0-1	0-1	0-1	P	P	0-1	P	P	0-1	P	P	0-1	P	P	0-1	P	P	0-1	P	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Arr 2 S	P	T	0-1	0-1	0-1	P	P	0-1	P	P	0-1	P	P	0-1	P	P	0-1	P	P	0-1	P	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Arr 3 S	P	P	T	0-1	0-1	P	P	0-1	P	P	0-1	P	P	0-1	P	P	0-1	P	P	0-1	P	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Arr 4 S	P	P	P	T	0-1	P	P	0-1	P	P	0-1	P	P	0-1	P	P	0-1	P	P	0-1	P	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Arr 5 S / S1	P	P	P	P	T	T	T	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Arr 5 S2	P	P	P	P	T	T	T	0-1	0-1	Px	0-1	0-1	Px	0-1	0-1	Px	0-1	0-1	Px	0-1	Px	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Arr 5 ML	P	P	P	P	T	T	T	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0	0	0	P	0	P	P	P	P	P	P <sup>s</sup>
Arr 6 S / S1	P	P	P	P	Px	0-1	0-1	T	T	T	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Arr 6 S2	P	P	P	P	0-1	0-1	0-1	T	T	T	0-1	0-1	Px	0-1	0-1	Px	0-1	0-1	Px	0-1	Px	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Arr 6 ML	P	P	P	P	Px	Px	0-1	T	T	T	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0	0	0	P	0	P	P	P	P	P	P	P <sup>s</sup>
Arr 7 S / S1	P	P	P	P	Px	0-1	0-1	Px	0-1	0-1	T	T	T	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Arr 7 S2	P	P	P	P	0-1	0-1	0-1	0-1	0-1	0-1	T	T	T	0-1	0-1	Px	0-1	0-1	Px	0-1	Px	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Arr 7 ML	P	P	P	P	Px	Px	0-1	Px	Px	0-1	T	T	T	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0	0	0	P	0	P	P	P	P	P	P <sup>s</sup>
Arr 8 S / S1	P	P	P	P	Px	0-1	0-1	Px	0-1	0-1	Px	0-1	0-1	T	T	T	0-1	0-1	0-1	0-1	0-1	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Arr 8 S2	P	P	P	P	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	T	T	T	0-1	0-1	0-1	0-1	Px	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Arr 8 ML	P	P	P	P	Px	Px	0-1	Px	Px	0-1	Px	Px	0-1	T	T	T	0-1	0-1	0-1	0-1	0-1	0	0	0	P	0	P	P	P	P	P	P <sup>s</sup>
Arr 9 S / S1	P	P	P	P	Px	0-1	0-1	Px	0-1	0-1	Px	0-1	0-1	0-1	0-1	0-1	T	T	T	0-1	0-1	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Arr 9 S2	P	P	P	P	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	T	T	T	0-1	Px	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Arr 9 ML	P	P	P	P	Px	Px	0-1	Px	Px	0-1	Px	Px	0-1	0-1	0-1	0-1	T	T	T	0-1	0-1	0	0	0	P	0	P	P	P	P	P	P <sup>s</sup>
Arr 10 S	P	P	P	P	Px	0-1	0-1	Px	0-1	0-1	Px	0-1	0-1	Px	0-1	0-1	Px	0-1	0-1	T	T	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Arr 10 ML	P	P	P	P	Px	Px	0-1	Px	Px	0-1	Px	Px	0-1	Px	Px	0-1	Px	Px	0-1	T	T	0	0	0	P	0	P	P	P	P	P	P <sup>s</sup>
Arr 11 ML	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	T	0-1	0-1	P	0-1	P	P	P	P	P	P <sup>s</sup>
Arr 12 ML	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	T	0-1	P	0-1	P	P	P	P	P	P	P <sup>s</sup>
Arr 13 ML	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	T	T	0-1	P	P	P	P	P	P	P <sup>s</sup>
Arr 13 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	T	T	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1 <sup>s</sup>
Arr 14 ML	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0-1	T	T	P	P	P	P	P <sup>s</sup>	
Arr 14 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	T	T	0-1	0-1	0-1	0-1	0-1	0-1 <sup>s</sup>	
Arr 15 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	T	0-1	0-1	0-1	0-1 <sup>s</sup>		
Arr 16 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	T	0-1	0-1 <sup>s</sup>	0-1 <sup>s</sup>	0-1 <sup>s</sup>		
Arr 17 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Pa	T	0-1	0-1 <sup>s</sup>		
Arr 18 EL <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	Pa <sup>s</sup>	Pa <sup>s</sup>	T <sup>s</sup>		



1 <sup>st</sup> Move	2nd Move >>>																															
	Dep	Dep	Dep	Dep	Dep	Dep 5 ML	Dep 5	Dep 6 S	Dep 6 ML	Dep 6	Dep 7 S	Dep 7 ML	Dep 7	Dep 8 S	Dep 8	Dep 8 ML	Dep 9 S	Dep 9	Dep 9 ML	Dep 10S	Dep 10 ML	Dep 11 ML	Dep 12 ML	Dep 13 ML	Dep 13 EL	Dep 14 ML	Dep 14 EL	Dep 15 EL	Dep 16 EL	Dep 17 EL	Dep 18 EL <sup>s</sup>	
	1 S	2 S	3 S	4 S	5 S	ML1	ML2		ML1	ML2		ML1	ML2		ML1	ML2		ML1	ML2	*												
Dep 1 S	2c	2	2	2	2	P	P	2	P	P	2	P	P	2	P	P	2	P	P	2	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>	
Dep 2 S	2	2c	2	2	2	P	P	2	P	P	2	P	P	2	P	P	2	P	P	2	P	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Dep 3 S	2	2	2c	2	2	P	P	2	P	P	2	P	P	2	P	P	2	P	P	2	P	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Dep 4 S	2	2	2	2c	2	P	P	2	P	P	2	P	P	2	P	P	2	P	P	2	P	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Dep 5 S	2	2	2	2	2c	2c	2c	2	2	P	2	2	P	2	2	P	2	2	P	2	P	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Dep 5 ML / ML1	P	P	P	P	2c	2c	2c	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	P	2	P	P	P	P	P	P <sup>s</sup>
Dep 5 ML2	P	P	P	P	2c	2c	2c	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	P	2	P	P	P	P	P	P	P <sup>s</sup>
Dep 6 S	2	2	2	2	2	2	2	2c	2c	2c	2	2	Px	2	2	Px	2	2	Px	2	Px	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Dep 6 ML / ML1	P	P	P	P	2	2	2	2c	2c	2c	2	2	2	2	2	2	2	2	2	2	2	2	2	P	2	P	P	P	P	P	P	P <sup>s</sup>
Dep 6 ML2	P	P	P	P	Px	2	2	2c	2c	2c	2	2	2	2	2	2	2	2	2	2	2	2	2	P	2	P	P	P	P	P	P	P <sup>s</sup>
Dep 7 S	2	2	2	2	2	2	2	2	2	2	2c	2c	2c	2	2	Px	2	2	Px	2	Px	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Dep 7 ML / ML1	P	P	P	P	2	2	2	2	2	2	2c	2c	2c	2	2	2	2	2	2	2	2	2	2	P	2	P	P	P	P	P	P	P <sup>s</sup>
Dep 7 ML2	P	P	P	P	Px	2	2	Px	2	2	2c	2c	2c	2	2	2	2	2	2	2	2	2	P	2	P	P	P	P	P	P	P	P <sup>s</sup>
Dep 8 S	2	2	2	2	2	2	2	2	2	2	2	2	2	2c	2c	2c	2	2	2	2	Px	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Dep 8 ML1	P	P	P	P	2	2	2	2	2	2	2	2	2	2c	2c	2c	2	2	2	2	2	2	2	P	2	P	P	P	P	P	P	P <sup>s</sup>
Dep 8 ML / ML2	P	P	P	P	Px	2	2	Px	2	2	Px	2	2	2c	2c	2c	2	2	2	2	2	2	2	P	2	P	P	P	P	P	P	P <sup>s</sup>
Dep 9 S	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2c	2c	2c	2	Px	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Dep 9 ML1	P	P	P	P	2	2	2	2	2	2	2	2	2	2	2	2	2c	2c	2c	2	2	2	2	2	P	2	P	P	P	P	P	P <sup>s</sup>
Dep 9 ML / ML2	P	P	P	P	Px	2	2	Px	2	2	Px	2	2	2	2	2	2c	2c	2c	2	2	2	2	2	P	2	P	P	P	P	P	P <sup>s</sup>
Dep 10 S*	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2c	2c	2c	P	P	P	P	P	P	P	P	P	P	P <sup>s</sup>
Dep 10 ML	P	P	P	P	Px	2	2	Px	2	2	Px	2	2	Px	2	2	2	2	2c	2c	2c	2	2	2	P	2	P	P	P	P	P	P <sup>s</sup>
Dep 11 ML	P	P	P	P	P	2	2	P	2	2	P	2	2	P	2	2	2	2	P	2	2	2c	2	2	P	2	P	P	P	P	P	P <sup>s</sup>
Dep 12 ML	P	P	P	P	P	2	2	P	2	2	P	2	2	P	2	2	P	2	2	P	2	2	2c	2	P	2	P	P	P	P	P	P <sup>s</sup>
Dep 13 ML	P	P	P	P	P	2	2	P	2	2	P	2	2	P	2	2	P	2	2	P	2	2	2	2c	2c	2	P	P	P	P	P	P <sup>s</sup>
Dep 13 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	2c	2c	2	2	2	2	2	2	2	2 <sup>s</sup>
Dep 14 ML	P	P	P	P	P	2	2	P	2	2	P	2	2	P	2	2	P	2	2	P	2	2	2	2	2c	2c	2	P	P	P	P	P <sup>s</sup>
Dep 14 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	2	2c	2c	2	2	2	2	2	2 <sup>s</sup>
Dep 15 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	2	P	2	2	2c	2	2	2 <sup>s</sup>
Dep 16 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	2	P	2	2	2	2c	2	2 <sup>s</sup>
Dep 17 EL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	2	P	2	2	2	2	2c	2 <sup>s</sup>
Dep 18 EL <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	P <sup>s</sup>	2 <sup>s</sup>	P <sup>s</sup>	2 <sup>s</sup>	2 <sup>s</sup>	2 <sup>s</sup>	2 <sup>s</sup>	2 <sup>s</sup>	2c <sup>s</sup>	

## Bethnal Green

### Adjustments to sectional running times

Movement	Reason	Value
All down trains from 1600 to 1859 Mondays to Fridays running ML and approaching from Liverpool Street	Platform departure performance recovery allowance	{1}
Approaching Up direction moves from Temple Mills line	Via slow speed crossover	{1} Loco hauled {½} EMU
Junction Margins		Margin
First Movement	Second Movement	
Up train travelling towards Liverpool Street	Down Train travelling towards Stratford	2½
Down train travelling towards Stratford	Up train travelling towards Liverpool Street	1

## Bow Junction

### Adjustments to sectional running times

Movement	Reason	Value
Approaching Down direction moves towards BL, DX1, DX3, DX4 or UBL	Via slow speed crossover	{1} Loco hauled {½} EMU

### Restriction

For ARS regulating purposes in the Up direction on Temple Mills lines ARR and DEP times with activities A and \* to be used and not pathing time.

## Bow Yard

Note; Only one train can be planned into Bow East Yard at any one time. Bow West can accommodate one train in the Plasmoor terminal and one train in the Aggregates terminal but both terminals share the reception/run-round roads. Any train in the Aggregates terminal will block the reception/run-round roads.

Junction Margins		
First Movement	Second Movement	Margin
Freight train arrives in Bow West for Plasmoor terminal	Freight train arrives in Bow West for Aggregates terminal	25

### Adjustments to sectional running times

Train Details	Planning Assumption
Train of 18 wagons or less conveying a single material	2½ hours to unload Inside clear at Bow Olympics terminal
Train of 18 wagons or more or a train conveying more than one material	4 hours to unload Train will need to be split into two portions. Once split will be inside clear at Bow Olympics terminal
Bow Depot Reception Loop Length	42 SLUs

<b>Stratford</b>		
<b>Connectional Allowance 7</b>		
<b>Junction Margins for Stratford Central Junction</b>		
<b>Movements and Conflicting Moves</b>		<b>Margin</b>
Passenger Following Passenger		2
Passenger Following Freight	Standard (exceptions below)	3
Up Freight Pass Platform 10 to Hackney Wick	Down Passenger Arrive Platform 10	3½
Freight following Freight	Standard (exceptions below)	4
Up Freight Pass Platform 10A to Hackney Wick	Down Freight Pass Platform 10A from Hackney Wick	4
Freight Following Passenger	Standard (exceptions below)	3
Down Passenger Depart Platform 10	Up Freight Pass Platform 10 to Hackney Wick	2½
Up Passenger Pass from Orient Way	Up Freight Pass Platform 10 to Hackney Wick	1½
Up Passenger Pass from Orient Way	Down Freight Pass Platform 10A from Hackney Wick	3½
Down Passenger Pass to Orient Way	Down Freight Pass Platform 10A from Hackney Wick	2½
Down Passenger Pass to Orient Way	Up Freight Pass Platform 10 to Hackney Wick	1
Up Passenger Depart Platform 10A to Liverpool Street	Down Freight Pass Platform 10A from Hackney Wick	3
<b>Platform Reoccupation</b>		<b>Margin</b>
<b>First Movement</b>	<b>Second Movement</b>	
Platform 11		
Trains towards Liverpool Street	Trains towards Temple Mills East Jn	3
Platform 12		
Trains towards Liverpool Street	Trains towards Temple Mills East Jn, applicable to trains from Liverpool Street	6

Stratford		
Adjustments to sectional running times		
Movement	Reason	Value
For freight from Woodgrange Park via UEL and Maryland East Crossovers into P10	Acceleration allowance after crossing from slow speed branch line, approach control at L330, and slow speed crossover at Maryland East	{2}
For freight from Woodgrange Park via UML from Forest Gate Junction Crossovers into P10	Acceleration allowance after crossing from slow speed branch line	{1½}
For freight from Woodgrange Park via UEL and Maryland East Crossovers into P10a	Acceleration allowance after crossing from slow speed branch line and slow speed crossovers at Maryland into P10a	{3}
For freight from Woodgrange Park via UML from Forest Gate Junction Crossovers into P10a	Acceleration allowance after crossing from slow speed branch line and slow speed crossovers at Maryland into P10a	{2½}
For freight from Ilford UML crossing over at Maryland East Crossovers into P10a	Slow speed crossovers at Maryland into P10a	{2}
For freight from Ilford UML crossing to DML at Forest Gate Junction Crossovers running through P10a	Slow speed crossover at Maryland into P10a	{1½}
For freight from Ilford UEL via Maryland East Crossovers into P10	Slow speed crossover at Maryland East	{1}
For freight from Ilford UEL crossing at Forest Gate Junction and running UML into P10	Acceleration allowance	{½}
For freight from Ilford running UEL to Maryland East Crossovers and then into P10a	Slow speed crossovers at Maryland into P10a	{2}
For freight from Ilford UEL crossing at Forest Gate Junction to UML and through P10a	Allowance after crossing at Forest Gate Junction from slower speed line and slow speed crossovers at Maryland into P10	{2½}
For freight from Ilford UEL crossing at Forest Gate Junction to DML and through P10a	Slow speed crossovers at Maryland into P10a	{2}
Dwell Time	1 (Peak times only)	
	1 Class 745/755 operated services	
	1 MTR Crossrail services	
Other Restrictions		
Platform 10A - Effective length of Platform 10A is 254 metres which equates to 39 SLUs		
Stratford Signal L295- Length clear of 2151 points (includes Platform 10A) is 537 metres which equates to 83 SLUs		
Stratford Signal L295 - Length clear of Carpenter's Road North Junction (645 points) (includes Platform 10A) is 1100 metres which equates to 171 SLUs Please note a train extending past 2151 points, towards Carpenter's Road North Junction, will preclude movements to and from platforms 11 & 12 at the London end and on or off the Temple Mills Lines at Stratford.		
Length Restriction - A first train can be held at Stratford Signal L295 whilst a second train can be held in Platform 10A providing the first train is no longer than 149 metres		

## Stratford

### which equates to 23 SLUs

Lea Junction Signal NL1286 - Length clear of Stratford Central Jn (Down Temple Mills Line) is 707m which equates to 110 SLUs. This length does not take into account any stand back from the signal. Due to ARS specifications  
**stops must be shown at Lea Jn (TIPLOC – LEAJ), ARS will then hold the train at Signal NL1286.**

### Stratford Platforms 1 and 2

See entry under route EA 1320 Camden Road West Junction to Stratford Platform 1 and 2

## Forest Gate Station

### Adjustments to sectional running times

Movement	Reason	Value
For freight from Ilford crossing from UML to DML at Forest Gate Junction	Slow speed crossover	{½}
For freight from Ilford avoiding line	Slow speed crossover	{½}

## Forest Gate Junction

### Adjustments to sectional running times

Movement	Reason	Value
Trains crossing from down ML to down EL	Via slow speed crossover	{½}

### Junction Margins

Movement	Margin
Fouling Moves;	
Passenger following Passenger	2
Passenger following Freight	3
Freight following Freight	3
Freight following Passenger	2

## Ilford

### Connectional Allowance 2

### Converging Margins

First Movement	Second Movement	Margin
Pass Ilford from Down Passenger Avoiding line	Arrive Ilford Platform 4	3
Pass Ilford from Down Passenger Avoiding line	Pass Ilford Platform 4	4

## Ilford Depot London End Junction

### Adjustments to Sectional Running Times

Movement	Reason	Value
Down train crossing from Main Line to Electric	Faster speed due to not entering Depot	-½
Up train crossing from Electric Line to Main Line not departing Depot	Faster speed due to not exiting Depot	-½ approaching Ilford

## Ilford Depot London End Junction

### Junction Margins

First Movement	Second Movement	Margin
Down Train Passing Ilford on Electric Lines	Up Train Passing on Electric Lines from Depot	4
Down Train Departing Ilford on Electric Lines	Up Train Passing on Electric Lines from Depot	4½
Up Train Passing on Electric Lines from Depot	Down Train Passing Ilford on Electric Lines	2
Up Train Passing on Electric Lines from Depot	Down Train Departing Ilford on Electric Lines	1½

## Seven Kings

### Adjustments to Sectional Running Times

Movement	Reason	Value
Down train stopping at Seven Kings crossing from the down Electric Line to platform 3	Approach control prior to slow speed crossover	1

### Junction Margins

First Movement	Second Movement	Margin
Down EL train arrive at Seven Kings	Up train pass/depart Seven Kings towards Ilford EMUD	1
Down train pass/depart Seven Kings Platform 3 towards Down ML	Up train arrive Seven Kings Platform 3	3
Down train pass/depart Seven Kings Platform 3 towards Down ML	Up passenger train which passes Seven Kings Platform 3 pass/arrive Ilford	4½
Down train pass/depart Seven Kings Platform 3 towards Down ML	Up freight train which passes Seven Kings Platform 3 pass/arrive Ilford	5
Up train depart Seven Kings Platform 3	Down train pass/arrive Seven Kings Platform 3	3
Up passenger train which has passed Seven Kings Platform 3 pass/arrive Ilford	Down train pass/arrive Seven Kings Platform 3	1½
Up freight train which has passed Seven Kings Platform 3 pass/arrive Ilford	Down train pass/arrive Seven Kings Platform 3	1
Up train pass/depart Seven Kings towards Ilford EMUD	Down train arrive Seven Kings Platform 4	5
Up train pass/depart Seven Kings towards Ilford EMUD	Down train pass/depart Ilford routed towards Seven Kings Platform 4 (not stopping at or timed at Seven Kings)	3

## EA 1011 SEVEN KINGS TO IPSWICH

### Gidea Park

### Connectional Allowance

### Junction Margins

First Movement	Second Movement	Value
Train passes/arrives in P3 from Gidea Park Sidings	Train departs platform 4 towards Shenfield/Gidea Park Sidings	2

<b>Shenfield</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
Approaching Passenger/ECS Up direction moves for non-stop trains from Chelmsford direction crossing to EL	Via slow speed crossover	{1}
Passenger/ECS Down direction moves for non-stop trains towards Chelmsford crossing from EL at Shenfield	Via slow speed crossover	{1} at next timing location
<b>Adjustments to Sectional Running Times</b>		
For Down direction moves for non-stop trains towards Chelmsford crossing from EL at Shenfield the below allowances are to be applied at the next timing location		
<b>Timing Load</b>	<b>Reason</b>	<b>Allowance</b>
Class 6 under 600t	Speed Differential	1
Class 6 600t to 1600t inclusive	Speed Differential	1½
Class 6 over 1600t	Speed Differential	2
Class 4 under 600t	Speed Differential	1
Class 4 600t to 799t inclusive	Speed Differential	1½
Class 4 800t to 1000t inclusive	Speed Differential	2
Class 4 over 1000t	Speed Differential	2½
<b>Adjustments to Sectional Running Times</b>		
Approaching Up direction moves for non-stop trains from Chelmsford direction crossing to EL or Up Passenger Loop at Shenfield		
<b>Movement</b>	<b>Reason</b>	<b>Allowance</b>
Up Freight Trains	Speed differential	1½
<b>Connectional Allowance</b>		
		3
<b>Dwell Time</b>		
	1 (peak hours only)	
	1 Class 745/755 operated services	
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Arrival	Conflicting departure	1
Passenger passing move	Conflicting departure	1½
Freight passing move	Conflicting departure	2
Up departure to EL	Conflicting passenger arrival from EL	3
Up departure to EL	Conflicting freight pass from EL	5
<b>Loop Lengths</b>		
Up Passenger Loop	74 SLUs	
Up Passenger Loop and Platform 1	140 SLUs	
<b>Ingatestone</b>		
Down passenger loop length	68 SLUs	

Chelmsford		
Adjustments to Sectional Running Times		
Movement	Reason	Value
Down direction non-stop moves to Chelmsford Down Loop	Slow speed crossover into loop	{1}
Up direction non-stop moves from Chelmsford Reception or Chelmsford Down Loop	Slow speed exit from loop	{1} at next timing point
Up direction passenger trains from Chelmsford platform 2	Speed differential	{½} at next timing point
Note that these allowances must be added to any other adjustment allowances required in this section, e.g. for crossing movements at Shenfield.		
Connectional Allowance	3	
Dwell Time	1	
	2 AM peak: ECS to passenger train starting from Platform 2	
Loop Length		
Down passenger Loop	40 SLUs	
Splitting and Coupling of trains permitted	Detaching of trains is permitted in platforms 1, 2 and Down Passenger Loop for ECS only. Attaching is not permitted.	

Witham		
Adjustments to Sectional Running Times		
Movement	Reason	Value
Approaching Up direction moves to Platform 1 not timed at Passenger Loop	Via slow speed crossover	{1}
Approaching Down Direction moves to Platforms 1 & 4	Via slow speed crossovers	{½}
Up passenger trains departing Platforms 1, 3 & 4 (not required for freight trains which include this allowance in the SRT)	Via slow speed crossover	{½} at next timing point
Connectional Allowance	2	
Dwell Time	1 -AM/PM peaks 1 Class 745/755 operated services 2 12-car Class 321 services to Braintree	
Loop Lengths		
Down Passenger Loop	42 SLUs	
Down Passenger Loop including platform 4 (n.b. fouling Braintree branch).	103 SLUs including Locomotive	
Up Passenger Loop	41 SLUs	
Platform 1	29 SLUs	
Platform 1 Including Up Passenger Loop	113 SLUs	
Splitting and Coupling of trains permitted	Attaching and Detaching permitted in platforms 1 and 4 only for class 1, 2, 3 ECS, 5 ECS, 9 and 0	
Routing of trains passing through or stopping in Platform 1		
The preferred routing for trains using Platform 1 is via the Up Loop where possible to reduce delay to following services by clearing the Main Line earlier		



Marks Tey			
Adjustments to Sectional Running Times			
Movement	Timing Load	Reason	Allowance
Pass to Marks Tey Yard	Freight	Deceleration for slow speed entry	1½
Pass from Marks Tey Up Loop or Yard	Class 4 up to 999t inclusive	Speed differential	1½
	Class 4 1000t to 1199t inclusive	Speed differential	1
	Class 4 1200t and above	Speed differential	½
	Class 6 1600t to 1799t inclusive	Speed differential	½
	Class 6 1800t to 2199t inclusive	Speed differential	1
	Class 6 2200t and above	Speed differential	1½
Junction Margins			
First Movement	Second Movement		Value
Freight set back from platform 1 into sidings	Next up service arrives/passes Marks Tey		7
Up train pass/depart platform 1	Up freight depart from Marks Tey Up Loop or Yard		1
Connectional Allowance		2	
Loop Length			
Up Passenger Loop		73 SLUs	
Splitting and Coupling of trains permitted		Attaching and Detaching permitted in Up Passenger Loop for class 5 ECS only during times of engineering work.	
Restriction			
Marks Tey Yard can only accommodate one train at a time – single train working. Light engine movements to be treated as an exception to this, i.e. light engines are permitted to depart and arrive when there is a set of wagons already in the sidings.			

Colchester			
Adjustments to Sectional Running Times			
Movement	Reason		Allowance
Approaching Down direction moves to Platform 6	Via slow speed crossover		1
Approaching Up direction moves from Manningtree to Platform 4	Via slow speed crossover		½
Approaching Up direction moves to Platforms 1 or 2	Via slow speed crossover		1
Adjustments to Sectional Running Times			
Movement	Timing Load	Reason	Allowance
Applicable to timing loads shown for Down trains passing from Colchester Yard, to be applied approaching next timing point	Class 4 under 600t	Speed Differential	1½
	Class 4 600t to 799t inclusive	Speed Differential	2
	Class 4 800t to 999t inclusive	Speed Differential	2½
	Class 4 1000t to 1199t inclusive	Speed Differential	3
	Class 4 1200t to 1475t inclusive	Speed Differential	3½
	Class 4 over 1475t	Speed Differential	4
Up direction trains routed into Colchester Yard or Colchester Up Loop	Freight Trains	Speed differential	1½
			Value
Connectional Allowance			4

Colchester		
<b>Dwell Time</b>		1 1½ Class 745 operated services
Junction Margin		
First Movement	Second Movement	Margin
Non-stop Class 1 or Class 9 pass platform 3	Departure from platform 4	2
Other Restrictions	Down direction loco hauled Intercity set and Class 170 trains to use Platform 2, where practicable, and Up direction loco hauled Intercity set and and Class 170 trains to use Platform 3	
	Down Greater Anglia Mainline EMU operated trains to use Platforms 1 or 2. Up Greater Anglia Mainline EMU Operated trains to use Platforms 3 or 4. Clacton/Walton branch terminating trains to use Platform 5	
	Terminating down line and starting up line trains to use Platform 6 where practicable	
	It is possible to have simultaneous moves between Colchester station and the depot so long as one movement is between the sidings 1-6 and platform 1 or 2 and the other movement is between the reception road and platforms 3, 4 or 6.	
Splitting and Coupling of trains permitted	Platform 1, 2, 3 and 4 Permissive Working - Attaching and Detaching permitted only for class 1, 2, 3 ECS, 5 ECS, 9 and 0 trains. Platform 5 and 6 Permissive Working only for class 1, 2, 3 ECS, 5, 9 and 0 trains	
Loop Lengths		SLUs
Colchester TC Reception 1 & 2		52 SLUs
Colchester Down Goods Loop standing at CO1051 signal clear of 3044 points		38 SLUs including locomotive
Colchester Down Goods Loop standing at CO1051 signal clear of 3040 points		119 SLUs including locomotive
Colchester Up Goods Loop standing at CO1028 signal clear of 3048 points		99 SLUs including locomotive
Colchester Up Goods Loop standing at CO1036 signal clear of 3048 points		55 SLUs including locomotive
Colchester Up Goods Loop standing at CO1055 signal clear of 3041 points		99 SLUs including locomotive. Does not allow for any stand back from signal
Colchester Up Goods Loop standing at CO1055 signal clear of 3043 points		52 SLUs including locomotive. Does not allow for any stand back from signal
Colchester Up Goods Loop standing at CO1023 signal clear of 3041 points		26 SLUs including locomotive. Does not allow for any stand back from signal
Colchester Up Passenger Loop		60 SLUs

<b>Manningtree</b>			
<b>Adjustments to Sectional Running Times</b>			
<b>Movement</b>	<b>Timing Load</b>	<b>Reason</b>	<b>Allowance</b>
Down direction non-stop trains routed towards Harwich Branch	Passenger & ECS	Via slow speed crossover	1
	Freight	Speed differential	1½
Train approaching in the Up direction which has departed from Griffin Wharf and passed through Halifax Junction	Freight	Slow speed through Halifax Junction and slow acceleration forward	5
Applicable to timing loads shown for Up direction trains passing from the Harwich Line, to be applied approaching the next timing point	Passenger & ECS	Via slow speed crossover	1
	Class 6 under 600t	Speed Differential	½
	Class 6 600t to 999t inclusive	Speed Differential	1
	Class 6 1000t to 1199t inclusive	Speed Differential	1½
	Class 6 1200t to 1399t inclusive	Speed Differential	2
	Class 6 1400t to 2000t inclusive	Speed Differential	2½
	Class 6 over 2000t	Speed Differential	3
<b>Connectional Allowance</b>			2
<b>Dwell Time</b>			1 AM/PM peak 1 Class 745/755 operated services

<b>Manningtree North Junction</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Value</b>
Departing Manningtree to Ipswich	Passing Manningtree North from Manningtree East Jn	4
Passing Manningtree to Ipswich	Passing Manningtree North from Manningtree East Jn	3
Arriving Manningtree from Ipswich	Passing Manningtree North from Manningtree East Jn	Simultaneous
Passing Manningtree from Ipswich	Passing Manningtree North from Manningtree East Jn	1
Passing Manningtree North from Manningtree East Jn	Departing Manningtree to Ipswich	1
Passing Manningtree North from Manningtree East Jn	Passing Manningtree to Ipswich	2
Passing Manningtree North from Manningtree East Jn	Arriving Manningtree from Ipswich	5
Passing Manningtree North from Manningtree East Jn	Passing Manningtree from Ipswich	4

## Halifax Junction

### Adjustments to Sectional Running Times

Movement	Reason	Allowance
Down trains crossing to UL or Griffin Wharf branch at Halifax Jn	Approach control	1
Up trains crossing from DL to Up Main	Via slow speed crossover	½ approaching next timing point

## Ipswich

### Adjustments to Sectional Running Times

Movement	Reason	Value Allowance
All Up trains departing from Platform 4	Via slow speed crossover	{1} ½ approaching Halifax Jn
Down trains arriving in Platform 4	Via slow speed crossover	½
<del>Wrong road (The direction opposite to the normal direction of travel) departure from station</del>		{1}
Down trains departing from Platforms 1, 2 and 4 towards Stowmarket	Via slow speed crossover	½ approaching next timing point
Up trains arriving in Platforms 1, 3, 4 from Stowmarket	Via slow speed crossover	½
Freight trains which have departed from Ipswich Yard following a Crew change or change in train formation (e.g. loco change)	Reduced speed due to Running Brake Test after leaving Ipswich	{2} at approaching next timing point after Halifax Jn

### Dwell Time

Multiple Units	1
DVT/Loco Hauled trains	2
745 operated services except as below	1½
745 operated Class 9 services	1

### Junction Margins

First Movement	Second Movement	Margin
Conflicting passenger train arrives at Ipswich	Freight Train passes through Ipswich	1
Conflicting passenger train arrives at Ipswich	Freight train stopping at Ipswich	2
Freight train travelling towards Ipswich SS or Reception	Down Passenger train following	4
Pass/arrive platform 3 from Down Main	Up arrive unoccupied platform 4	2*
Up arrive unoccupied platform 4	Pass/arrive platform 3 from Down Main	3*

\* Overlap on Signal CO302 extends into Ipswich Tunnel on the Down Main

Location	Length Limits
Ipswich Through Line	55 SLUs
Ipswich Station Siding	32 SLUs

<b>Ipswich</b>		
<b>Permissive Working</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Arrive in occupied platform	Depart same platform in same direction	2
<b>Other Restrictions</b>		
Down direction DVT and Class 170 trains to use Platform 3, where practicable, and Up direction DVT and Class 170 trains to use Platform 2		
Terminating down trains to use Platform 2 where practicable		
<b>Splitting and Coupling of trains permitted</b>		
In all platforms for use for class 1, 2, 3 ECS, 5, 9 and 0		

## EA 1012 IPSWICH TO TROWSE JUNCTION

### Ipswich Yard

#### Allowances for Conflicting Movements

First Movement	Second Movement	Margin
Train arrives at North End of the reception	Train arrives at or departs from South end of the reception	3
Train arrives at South End of the reception	Train arrives at or departs from North end of the reception	3

#### Ipswich Yard Capacity

The capacity is controlled by the Ipswich Yard Plan

Note: only the Up and Down Goods Line and No 1 Reception Road are accessible to trains approaching via/ departing towards Stowmarket.

Note: for trains to/from Westerfield only No 2 – 4 Reception Roads are accessible directly from/to the Up East Suffolk Line, trains using the Up and Down Goods Line and No 1 Reception Road must travel via East Suffolk Junction.

#### Length Limits

The table below shows the distance from the signal at one exit to the signal at the other exit from the loop/siding. These lengths do NOT take into account defensive driving policy / stand-back from signals / space required for run-round moves.

Line	Signal From	Signal To	Length
Up and Down Goods Line	CO322	CO337	87 SLUs / 562m
No 1 Reception	GPL 812	CO341	111 SLUs / 712m
No 2 Reception	GPL 814	CO827	125 SLUs / 801m
No 3 Reception	GPL 816	CO829	108 SLUs / 696m
No 4 Reception	GPL 818	CO825	69 SLUs / 444m

### East Suffolk Junction

#### Adjustments to Sectional Running Times

Movement	Timing Load	Reason	Allowance
All trains which have departed from Ipswich SS or travelled via the Down & Up Goods line	Freight trains up to 1800t/TR100 inclusive	Speed Differential	1½ approaching Europa Junction
	Freight trains over 1800t/TR100 (exclusive)	Speed Differential	1 approaching Europa Junction

#### Adjustments to Sectional Running Times for timing loads shown in the Up Direction between Stowmarket and Ipswich East Suffolk Junction for trains which will be travelling to Ipswich SS or via DUL

Movement	Reason	Allowance
Up Freight Trains	Speed differential	1½

## East Suffolk Junction

<b>Junction Margin</b>		
<b>Movement</b>		<b>Margin</b>
Fouling move		3
Before divergence of following move		3
After merge		3

## Europa Junction

### Adjustments to Sectional Running Times

<b>Movement</b>	<b>Timing Load</b>	<b>Reason</b>	<b>Allowance</b>
Applicable to timing loads shown for trains which have departed from Ipswich SS or have travelled via the Down & Up Goods line, to be applied after Europa Junction at next timing point	Class 6 1600t to 1800t inclusive & TR100	Speed Differential	½
	Class 6 2000t to 2200t inclusive & TR115	Speed Differential	1
	Class 6 over 2200t (exclusive) & TR130	Speed Differential	1½
	Class 4 over 1600t (exclusive)	Speed Differential	½
Applicable to Down direction freight trains from Boss Hall Junction	Class 6 over 1400t (exclusive) & TR100 and above	Speed Differential	½
	Class 4 over 800t (exclusive)	Speed Differential	½

### Junction Margins

<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
First Train passes Europa Junction towards Stowmarket	Freight train from Westerfield passes Europa Junction towards Stowmarket.	3

## Claydon

<b>Loop Length</b>		
Down Goods Loop		42 SLUs 269 m

## Stowmarket

### Adjustments to Sectional Running Times

<b>Movement</b>	<b>Reason</b>	<b>Allowance</b>
Up train arriving in Platform 2	Via slow speed crossover	1
Up train departing from Platform 2 to Up Main	Via slow speed crossover	1 approaching next timing point

### Dwell Time

All passenger services	1
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### Loop Length

Down & Up Goods Loop	84 SLUs
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## Haughley Junction

### Adjustments to Sectional Running Times

Movement	Timing Load	Reason	Allowance
Down pass towards Bury St Edmunds	Freight Trains	Speed differential and approach control	1
Applicable to Up direction passing moves from the Bury St Edmunds direction, to be applied at the next timing location	Class 6 up to 1600t	Speed Differential	½
	Class 6 over 1600t	Speed Differential	1
	Class 4 under 600t	Speed Differential	½
	Class 4 600t to 1200t inclusive	Speed Differential	1
	Class 4 over 1200t	Speed Differential	1½

### Junction Margins

Movement	Margin
Fouling move	3
Before divergence of following move	3

## Diss

### Adjustments to Sectional Running Times

Movement	Reason	Allowance
Down train arriving in Platform 1 (Up Platform)	Via slow speed crossover	1
Down train departing from Platform 1 (Up Platform) to Down Main	Via slow speed crossover	1 approaching next timing point

### Dwell Time

All passenger services	1
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### Loop Lengths

Up Through Siding	23 SLUs
Headshunt	57 SLUs

## EA 1013 TROWSE JUNCTION TO NORWICH

### Trowse

#### Loop Length

Down & Up Loop	44 SLUs
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#### Restriction

Trowse Yard can only accommodate one train at a time – single train working. Light engine movements to be treated as an exception to this, i.e. light engines are permitted to depart and arrive when there is a set of wagons already in the sidings.

Trains departing Trowse towards Trowse Jn (EA 1012 or EA 1580) require a run-round move to be included in the schedule. The loco will use the Up Main for this movement so there must be a suitable train slot between other booked services.

### Trowse Swing Bridge

#### Junction Margin

Between all opposing movements	3
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## Thorpe Yard

### Loop Length

Reception

37 SLUs

## Wensum Curve

### Loop Length

Through Siding

40 SLUs

## Norwich Thorpe Junction

### Junction Margins

#### First Movement

Departure from Norwich passes Thorpe Junction

#### Second Movement

Conflicting movement towards Norwich

#### Value

1½

## Norwich

### Junction Margins

#### First Movement

Train departs P4, 5 or 6 on E line towards Whitlingham Jn

#### Second Movement

Train departs P4, 5 or 6 on C line to Trowse Swing Bridge

#### Value

2

Train departs P4, 5 or 6 on C line to Trowse Swing Bridge

Train departs P4, 5 or 6 on E line towards Whitlingham Jn

2

Arrival

Conflicting departure

1

Departure

Next arrival into same platform

4

### Advertised Time Changes

**Loco Hauled Intercity** trains to be advertised to arrive at least 2 minutes later than WTT time

### Minimum Turnrounds

18-minimum  
turnround for  
East  
Midlands  
Railway  
services –  
passenger in  
to form  
passenger  
out

East Midlands Railway services – Passenger to Passenger

18

Class 745 Passenger to ECS

10

Class 745 ECS to Passenger

15

Class 745 Passenger to Passenger

20

Class 755

5

### Length Limit

Middle siding

One train to be stabled at a time as walking route available at country end buffer stop only

198m

### Restriction

Class 755s in electric mode (Timing Load 755-E) are not to use Platform 6 at Norwich (unwired)

### Splitting and Coupling of trains permitted

In all platforms



## EA 1020 CARPENTER'S ROAD SOUTH JUNCTION TO CARPENTER'S ROAD NORTH JUNCTION

<b>Access Restriction to Carpenter's Road Curve</b>	A train standing in Channelsea Loop prevents access to Carpenter's Road Curve	
<b>Restriction</b>		
Trains cannot be held on Carpenter's Road Curve due to interlocking limitations.		

## EA 1030 FOREST GATE JUNCTION TO WOODGRANGE PARK JUNCTION

<b>Standage Lengths - this length does not take into account any stand back from the signal</b>		
Woodgrange Park Down Branch Clear of Forest Gate Jn		51 SLUs
Forest Gate Jn Up Branch Clear of Woodgrange Park Jn		51 SLUs
<b>Where timing allowances or stops are applied in this section for exceeding the lengths shown above the below must be noted</b>		
Timing allowances/stops at Forest Gate Jn in Up services	The train will foul Woodgrange Park Jn until it has passed Forest Gate Jn	
Timing allowances/stops at Woodgrange Park Jn in Down services	The train will foul Forest Gate Jn until it has passed Woodgrange Park Jn	

## EA 1040 ROMFORD TO UPMINSTER

<b>Romford</b>		
		Margin
Single Line reoccupation		10

## EA 1050 SHENFIELD JUNCTION TO SOUTHEND VICTORIA

<b>Billericay</b>		
		Value
Dwell time		1 AM/PM peak
<b>Splitting and Coupling of trains permitted</b>		
Detaching of units permitted in Down Platform 2, down direction only. Attaching is not permitted in any platform.		

## Wickford

<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Allowance</b>
Up trains from Southminster formed of 10/12 car EMU trains	Operating on reduced power	1
<b>Connectional Allowance</b>		
	2	
		Value
Dwell time		1 AM/PM peak

## Wickford

### Junction Margins

First Movement	Second Movement	Margin
Depart to Southminster	Depart to Southend	2
Depart to Southend	Depart to Southminster	2
Splitting and Coupling of trains permitted		Detaching of units permitted in Down Platform 2, down direction only. Attaching is not permitted in any platform.

## Hockley

Splitting and Coupling of trains permitted	Detaching of units permitted in Down Platform 2, down direction only. Attaching is not permitted in any platform.
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## Prittlewell

Operating Restrictions	A train may not depart towards Southend Victoria Platforms 3 or 4 at the same time as one is leaving from Southend Victoria Platforms 1 and 2 or Down Carriage Siding South towards Prittlewell due to ARS being unable to set the route from L625 signal to L629 signal, due to the reduced overlap	Departure to be 1 minute later than train from Southend Victoria
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## Southend Victoria

Other restrictions	Off Peak trains to use Platforms 2 or 3 where possible (to enable access to CET facilities)	
Operating Restrictions	A train from Platforms 1 or 2 or the Down Carriage Sidings South must depart at least 1 minute prior to a departure from Prittlewell towards Platforms 3 or 4 due to ARS being unable to set the route from L625 signal at Prittlewell station to L629 signal due to the reduced overlap	Departure to be at least 1 minute earlier than train from Prittlewell
Splitting and Coupling of trains permitted	In all platforms for use for class 1, 2, 3 ECS, 5, 9 and 0	
Loop Length	Platforms 1 to 4 Reversing moves	34 SLUs

## EA 1060 WICKFORD JUNCTION TO SOUTHMINSTER

### South Woodham Ferrers

#### Dwell Time

Up Liverpool St services	1 AM peak
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## EA 1060 WICKFORD JUNCTION TO SOUTHMINSTER

### North Fambridge

Single Line Crossing	First train arrives at xx and departs xx +01 Second train arrives xx +00½ and departs xx +01
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## EA 1060 WICKFORD JUNCTION TO SOUTHMINSTER

### North Fambridge

#### Loop Lengths

Fambridge Down Loop	23 25 SLUs 165m
Fambridge Up Loop	30 SLUs 192m

### Southminster

#### Adjustments to Sectional Running Times

Movement	Reason	Allowance
Down trains arriving formed of 10/12 car EMU trains	Operating on reduced power	1
Southminster Platform Reversing Moves		26 SLUs

## EA 1090 COLCHESTER JUNCTION TO CLACTON-ON-SEA

### Wivenhoe

Connectional Allowance	3
Dwell Time	
Up Liverpool St services	1 AM peak

## EA 1090 COLCHESTER JUNCTION TO CLACTON-ON-SEA

### Thorpe-le-Soken

Connectional Allowance	1	
Junction Margins		
First Movement	Second Movement	Value
Train arrives in platform 1 or 2 from Colchester	Train arrive opposite platform from Colchester	3½
Train arrives in platform 1 from Colchester	Train departs platform 2 to Colchester	1
Train departs platform 1 or 2 towards Clacton	Train departs from opposite platform towards Walton	1½
Train departs from platform 1 or 2 towards Walton	Train departs from opposite platform towards Clacton	1½
Train arrives in platform 1 from Walton	Train departs platform 2 towards Clacton or Walton	1
Train arrives in platform 2 from Clacton or Walton	Train departs platform 1 towards Clacton or Walton	1
Platform reoccupation		3
Loop Length – Platforms 1& 2		38 SLUs

### Wivenhoe

Connectional Allowance	3
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<b>Clacton-on-Sea</b>		
Splitting and Coupling of trains permitted	In all platforms	

EA 1110 THORPE-LE-SOKEN JUNCTION TO WALTON-ON-THE-NAZE	
Kirby Cross	
Single Line Crossing	Down First train arrives at xx and departs xx +03½. Up Second train arrives xx +02½ and departs xx +03
Loop Lengths	
Down	28 SLUs
Up	30 SLUs

<b>EA 1120 MANNINGTREE TO HARWICH TOWN</b>		
<b>Harwich International</b>		
Advertised Time Changes	Loco hauled trains to be advertised to arrive at least 2 minutes later than WTT times	
Other Restrictions	12 vehicle trains (e.g. Loco + 11 coach, 8 car + 4 car EMU etc.) not permitted in Platform 1	
		Margin
Single Line Reoccupation	Reoccupation of single line towards Harwich Town	4

<b>EA 1120 MANNINGTREE TO HARWICH TOWN</b>		
<b>Manningtree North &amp; East Junctions</b>		
<b>Loop Lengths</b>		
Manningtree North Junction	North Curve Clear of Manningtree East Junction	32 SLUs 205m
Manningtree East Junction	North Curve Clear of Manningtree North Junction	32 SLUs

<b>Manningtree East Junction</b>		
<b>Loop Length</b>		
Manningtree East Junction	North Curve Clear of Manningtree North Junction	32 SLUs 205m
Note: Trains towards Manningtree North Junction, and in excess of the standage on the North Curve (32 SLUs), are to be held at this location if required.		
Note: For ARS regulating purposes an Arr and Dep time are to be shown and NOT pathing ( ) time, with an A in the Location Activity field		

### Up Tip Sidings

Siding	Length (m)	Length (SLUs)	Comment
1	462	72	
2	388	60	
3	388	60	

### Parkeston New Yard

Siding	Length (m)	Length (SLUs)	Comment
1	200	31	
2	220	34	
3	250	39	
4	300	46	
5	340	53	
6	270	42	
7	270	42	
8	325	50	
9	273	42	
10	338	52	Can accommodate up to 395m/61SLU by fouling No11 Siding
11	338	52	Can accommodate up to 395m/61SLU by fouling No10 Siding
12	485	75	

### Parkeston Carriage Sidings

Siding	Length (m)	Length (SLUs)	Comment
1	365	57	*Can accommodate up to 523m/81SLU by fouling No2 Siding
2	365	57	*Can accommodate up to 523m/81SLU by fouling No1 Siding
3	512	79	
4	335	52	
5	300	46	
6	300	46	

### Up Tip Sidings

Siding	Length (m)	Length (SLUs)	Comment
1	462	72	
2	388	60	
3	388	60	

### Harwich International

Single Line Reoccupation	Margin
Reoccupation of single line towards Harwich Town	4

## EA 1160 BETHNAL GREEN EAST JUNCTION TO BISHOP'S STORTFORD

### Bethnal Green

Junction Margins		
First Movement	Second Movement	Margin
Depart/Pass Bethnal Green from Down Suburban to Down Fast	<del>A Bethnal Green to</del> Arrive/Pass Bethnal Green from Up Suburban	3
Arrive/Pass Bethnal Green from Up Suburban	Depart/Pass Bethnal Green from Down Suburban to Down Fast	1
Pass Bethnal Green from Down Main	Arrive/Pass Bethnal Green from Up Fast to Up Suburban	3
Arrive/Pass Bethnal Green from Up Fast to Up Suburban	Pass Bethnal Green from Down Main to Down Fast	1

### London Fields

Adjustments to Sectional Running Times		
Movement	Reason	Value
For trains that have reversed at London Fields Platform 1 towards Hackney Downs	Slow speed move over crossover from Up Suburban to down Suburban	{½}

### Hackney Downs

Junction Margins		
All margins are to be planned at 2 minutes except for below movements		
First Movement	Second Movement	Value
Depart Platform 4 towards Clapton	Arrive Platform 3 from Rectory Road. Trains which have called at Rectory Road can be planned at a 2 minute margin.	3
Adjustments to Sectional Running Times		
Movement	Reason	Value
Trains crossing from Down Fast Line to Down Slow at Hackney Downs South Junction (for platform 4 Hackney Downs)	Via slow speed crossover	{1}
Trains from Platform 4 at Hackney Downs travelling towards Clapton via Hackney Downs North Junction. To be shown approaching next timing point	Via slow speed crossover	{½}

### Coppermill Junction

Junction Margins		
Movement		Margin
Fouling move		3
Before divergence of following move		3
After merge		3

## Tottenham South Junction

### Freight Length Restriction between Tottenham South Junction and South Tottenham East Junction

Down Tottenham Curve towards South Tottenham Station Standing at SJ 1337 Signal	91 SLU
Up Tottenham Curve towards Coppermill Junction Standing at Tottenham South Junction Signal L1004	57 SLU

### Junction Margins

Movement	Margin
Fouling move except as below	3
Before divergence of following move	3
After merge	3
First Movement	Second Movement
Passenger train on Down Cambridge Line towards Tottenham Hale	Freight train from South Tottenham
	2½

## Tottenham Hale

Adjustments to Sectional Running Times		
Movement	Reason	Value
All Up trains departing from Down platform	Via slow speed crossover	{½}
Dwell Time		1 AM/PM peak
Minimum Turnround Time	For EMUs	6
Platform Reoccupation	Minimum time allowed between one train departing and another arriving in the same platform including conflicting movements towards platforms. Subject to future review	2

## Cheshunt

Adjustments to Sectional Running Times		
Movement	Reason	Value
All trains to/from Bay Platform	Via slow speed crossover	{½}
All trains via Southbury	Crossing Main Line to Southbury Loop	{½}
Dwell Time	1 AM peak <b>Cambridge services</b>	
Junction Margins		
Movement		Margin
Fouling move		2
Before divergence of following move		3
After merge		2
First movement	Second movement	Margin
Down train from Lea Valley arrives into Cheshunt platform 2	Up train departs Cheshunt platform 1 towards Southbury	1

Cheshunt		
Other Restrictions	If a train is starting from Platform 2 and routed via the preferred route (line code DS) towards Bury Street Junction this will conflict with the overlap of signal L1395 on the Down Southbury approaching Cheshunt, so it is not possible for a train to depart from Theobalds Grove towards L1395	
	If a train is starting from Platform 2 and routed via the non-preferred route (line code UC) towards Bury Street Junction that this conflicts with the overlap of signal L1060 on Platform 1	
Platform Reoccupation	Platform 3 (Bay) Only	4

Broxbourne		
Adjustments to Sectional Running Times		
Movement	Reason	Value
All Up trains departing from Platform 4	Via slow speed crossover	{½}
Dwell Time		1 AM/PM peak
Junction Margins		
First Movement	Second Movement	Margin
Arrive platform 1	Pass platform 2	2
Arrive platform 4 or pass platform 4 to down goods loop	Pass platform 3	2
Pass platform 2/3	Depart platform 1/4	2
Down passenger pass/arrive platform 3	Up train depart platform 4	1
Down freight pass platform 3	Up train depart platform 4	2
Down train pass platform 3	Down train depart platform 4	2
Up train pass platform 2	Up train depart platform 1 or 4	2
Up train passes platform 2	Up freight departs Up Goods Loop	1 ½
Loop Lengths		
Down Passenger Loop		65 SLUs
Down Passenger Loop including Platform 4		92 SLUs
Up Goods Loop		65 SLUs
Up Passenger Loop		35 SLUs

Broxbourne Junction		
Adjustments to Sectional Running Times		
Movement	Reason	Value
All trains to/from Hertford Branch	Via slow speed crossover	{½}
Junction Margins		
Movement		Margin
Down direction train towards Harlow Town	Up direction train from Hertford Branch	2
Up direction train from Hertford Branch	Down direction train towards Harlow Town	2½
Up pass from Harlow Town towards Broxbourne	Up train from Hertford Branch towards Broxbourne	2

Harlow Town		
Dwell Time		1 AM/PM



Harlow Town		
		peak
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Arrive platform 1/4	Pass platform 2/3	2
Pass platform 2/3	Depart platform 1/4	2
<b>Loop Lengths</b>		
Platform 1		65 SLUs
Platform 4		65 SLUs
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
For trains travelling from Bishop Stortford only - If the first train is routed into Harlow Mill Freight Yard the second train requires extra time approaching Harlow Mill	Slow movement of first train over Junction into Yard	{2}

Harlow Mill Down Goods Loop		
<b>Loop Length</b>		
<b>Down Goods Loop</b>		88 SLU

Harlow Mill Freight Yard		
Down Trains arriving at Harlow Mill need to reverse in the Down platform in order to gain access to Harlow Mills Freight Yard		
Freight Length Restriction	Freight Length Limit	62 SLU
<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Allowance between consecutive arrivals		15
<b>Restriction</b>		
Harlow Mill Reception is part of Harlow Mill Freight Yard and cannot be used for pathing stops (A stops) in trains. Trains may only enter Harlow Mill Reception when accepted by groundstaff to serve one of the terminals.		

Bishop's Stortford		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
Up trains from Stansted Mountfitchet direction routed via platform 1 or 3	Via slow speed crossover	{1½}
<b>Dwell Time</b>		1 AM/PM peak
<b>Loop Lengths</b>		
Up Loop	If reached through Platform 3, will prevent access/egress to/from Carriage Sidings	81 SLUs
Up loop	If reached from Platforms 1 or 2, or access to Carriage Sidings required	32 SLUs
Platform 1 Up Direction		39 SLUs
Platform 2 Up Direction		24 SLUs
<b>Other Restrictions</b>	Up services cannot reoccupy platforms 2 or 3 until 5mins after Down service has departed	
	When platform 2 is occupied trains cannot depart platform 1 in the Up direction	
<b>Splitting and Coupling of trains permitted</b>	In all platforms	

## EA 1161 BISHOP'S STORTFORD TO ELY NORTH JUNCTION

### Stansted Mountfitchet

Junction Margins		
Movement		Margin
Fouling move		3
Before divergence of following move		3
After merge		3
Loop Length		
Down Goods Loop		67 SLUs

### Stansted North Junction

Adjustments to Sectional Running Times		
Movement	Reason	Value
All trains to Stansted East Junction	Approach control	{1/2}
All trains from Stansted East Junction	Acceleration	{1/2} after Stansted North Junction
Junction Margins		
Movement	Margin	
Fouling move	3	
Before divergence of following move	3	
After merge	2	

### Audley End

Dwell Time		1 AM/PM peak
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### Great Chesterford

Loop Length		
Up Goods Loop		80SLUs

### Duxford

Loop Length		
Reception		22 SLUs

### Whittlesford Parkway

Loop Length		
Down Goods Loop		80 SLUs

## Shepreth Branch Junction

### Junction Margins

Movement		Margin
Fouling move	Up Royston train behind Down Main Line train	2
Fouling move	Down Main Line train behind Up Royston train	3
Before divergence of following move		3
After merge of following move		3

### Adjustments to Sectional Running Times

Movement	Reason	Allowance
Trains towards Foxton (except trains timed as 365 or 700 which include allowance in SRT)	Approach control	½

## Cambridge Signal CA147

Loop Length	Value
Down Slow Standing at CA147 Signal	114 SLUs

## Cambridge Signal CA149

Loop Length	Value
Down Main Standing at CA149 Signal	114 SLUs

## Cambridge Signal CA647

### Restriction

Class 1, Class 2 & Class 9 services to the through line and platforms 7 & 8 at Cambridge cannot pass a service being held at CA647 as it is a shunt signal only. Where a reversal requires to be held for passing Class 1, Class 2 or Class 9 services Cambridge Signals CA147 or CA149 must be used instead.

## Cambridge Reception Sidings

### Junction Margins

First Movement	Second Movement	Margin
Arrival at Cambridge Reception Sidings from the south	Arrival at Cambridge Reception Sidings from the south	5
Departure from Cambridge Reception Sidings towards the south	Departure from Cambridge Reception Sidings towards the south	5
Arrival at Cambridge Reception Sidings from the south	Arrival at/departure from Cambridge station	See matrix - treat 1 <sup>st</sup> move as Arr P8S
Departure from Cambridge Reception Sidings towards the south	Arrival at/departure from Cambridge station	See matrix - treat 1 <sup>st</sup> move as Dep P8S
Arrival at/departure from Cambridge station	Arrival at Cambridge Reception Sidings from the south	See matrix - treat 2 <sup>nd</sup> move as Arr P8S
Arrival at/departure from Cambridge station	Departure from Cambridge Reception Sidings towards the south	See matrix - treat 2 <sup>nd</sup> move as Dep P8S

For arrivals at & departures from Cambridge Reception Sidings to/from the north see entry under Cambridge Carriage Sidings North and South [G.S.](#)

Cambridge		
		<b>Value</b>
<b>Dwell Time</b>		1½
<b>Minimum Turnround Time</b>	20 desirable for Cross Country DMUs and Greater Anglia (Norwich Cambridge) services. 5 for Ipswich services	
<b>Splitting and Coupling of trains permitted</b>	In all platforms	
<b>Attachment of units – for services operated by GTR</b>		
Class 365/387 units	6	
<b>Detachment of units – for services operated by GTR</b>		
Class 365/387 units	5	
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Allowance</b>
Trains travelling from Down Main into Platforms 2, and 3, 7 and 8	Via slow speed crossovers	{1} ½ GA
Trains travelling from Down Main into Platform 4 via DMT (e.g. when Platform 1 is occupied)	Via slow speed crossovers	{1} ½ GA
<del>Trains travelling from Down Main into Platforms 7 and 8</del>		<del>{1½}</del>
<del>Trains travelling from Down Slow into Platforms 2 and 3</del>		<del>{½}</del>
Trains travelling from Platform 1 to Down Main via TL (e.g. when Platform 4 is occupied)	Via slow speed crossovers	{1}
Trains travelling from Platforms 7 and 8 to the Down Main	Via slow speed crossovers	<del>{1½}</del> 1 ½ 170/755
<del>Trains which have departed from Cambridge Platform 7 or 8 on the Up Main routed towards Audley End at Shepreth Branch Junction</del>	<del>Low speed S &amp; C</del>	<del>{½} at Shepreth Branch Junction</del>
Trains travelling into Platforms 5 and 6	Approach control	½
Trains arriving into an occupied platform	Calling on	½
<b>Cambridge Platform Working Matrix See below</b>		

## Cambridge Platform Working Matrix For Platforms 1 to 8

### Departures after arrivals

When the moves are conflicting at least one minute should be allowed.

Example: arrive Platform 1 10.06; depart Platform 3 10.07 or later.

*Exception when arrival is in Platform 4 from the South, when departures can be at the same time as the arrival.*

### Arrivals after departures

When the moves are conflicting at least three minutes should be allowed. This also applies for **reoccupation** of the same platform

Example: depart Platform 3 10.27, arrive Platform 2 10.30 or later

	2nd Move →																			
1st Move ↓	Arr P1S	Arr P1N	Arr P2/3	Arr P4S	Arr P4N	Arr P5/6	Arr P7S	Arr P7N	Arr P8S	Arr P8N	Dep P1S	Dep P1N	Dep P2/3 ^	Dep P4S	Dep P4N	Dep P5/6	Dep P7S	Dep P7N	Dep P8S	Dep P8N
Arr P1S	-	3	H	H	3*	P	H	P	H	P	-	-	1	2**	P	P	P	P	P	P
Arr P1N	3	-	P	3	H	H	P	H	P	H	-	-	P	2	P	P	P	S	P	S
Arr P2/3	H	P	-	H	P	P	H	P	H	P	P	P	1	P	P	P	P	P	P	P
Arr P4S	H	3#	H	-	3	3\$	H	P	H	P	S	2	S	-	-	2\$	S	P	S	P
Arr P4N	3*	H	P	3	-	H	P	H	P	H	P	2##	P	-	-	1	P	S	P	S
Arr P5/6	P	H	P	3\$	H	-	P	H	P	H	P	2	P	P	2	2	P	S	P	S
Arr P7S	H	P	H	H	P	P	-	5	H	P	S	P	S	S	P	P	-	-	1	P
Arr P7N	P	H	P	P	H	H	5	-	P	3	P	P	P	P	P	P	-	-	P	1
Arr P8S	H	P	H	H	P	P	H	P	-	5	S	P	S	S	P	P	1	P	-	-
Arr P8N	P	H	P	P	H	H	P	H	5	-	P	P	P	P	P	P	P	1	-	-
Dep P1S	3	3	P	3	P	P	4	P	4	P	-	S~	H	H	P	P	2%	P	2%	P
Dep P1N	3	3+	P	3	3	3	P	P@	P	P@	S~	-	P	2	5	3@	P	H	P	H
Dep P2/3^	3	P	3	3&	P	P	4	P	4	P	H	P	-	H	P	P	2%	P	2%	P
Dep P4S	3**	3	P	3	3	P	4	P	4	P	H	2	H	-	S~	P	2%	P	2%	P
Dep P4N	P	P	P	3	3	3	P	P	P	P	P	H	P	S~	-	H	P	H	P	H
Dep P5/6	P	P	P	3\$	3	3	P	P	P	P	P	H	P	P	H	-	P	H	P	H
Dep P7S	P	P	P	P"	P	P	4	3	4	P	H	P	H	H	P	P	-	S~	H	P
Dep P7N	P	5	P	P	5	5	3	5	P	5	P	4	P	P	4	4	S~	-	P	H
Dep P8S	P	P	P	P"	P	P	4	P	4	2	H	P	H	H	P	P	H	P	-	S~
Dep P8N	P	4	P	P	4	4	P	5	3	5	P	4	P	P	4	4	P	H	S~	-

<b>Notes:</b>	
H	As per normal headway
P	Parallel or non conflicting
S	Simultaneous moves
*	If there is already a train standing in either of these platforms adjacent to the scissors crossover, a further train may be admitted behind it at the same time as one is signalled into the through platform from the other end
**	If there is already a train in platform 1 adjacent to the scissors crossover the margin reduces to P
#	May be reduced to 2 minutes if platform 4 arrival is via platform 1
##	If there is already a train in platform 4 adjacent to the scissors crossover the margin reduces to P
\$	If there is a train standing at the north end of platform 4 the margin reduces to P
~	Wherever possible this move should be avoided and consideration given to the flow of passengers
%	Headway to be restored at Shepreth Branch Junction
@	Increases to 4 minutes if there is a train standing in platform 4
+	Increases to 5 minutes if there is a train standing in platform 4
"	Increases to 4 minutes if there is a train standing in platform 1
&	Increases to 5 minutes if there is a train standing in platform 1
^	There is an independent route between platforms 2 & 3 and the 'cupboard', parallel to any moves from platforms 1 or 4

## Cambridge Reception Roads 1 & 2

Loop Length	Value
No 1 Reception	73 SLUs
No 2 Reception	70 SLUs

## Mill Road Junction

Junction Margins		
1 <sup>st</sup> Movement	2 <sup>nd</sup> Movement	Margin
Movement across Mill Road Junction	Conflicting movement passes/departs previous timing point	2

## Cambridge Carriage Sidings North ~~C.S.~~

Junction Margins		
1 <sup>st</sup> Movement	2 <sup>nd</sup> Movement	Margin
<del>Arrival Cambridge Reception Sidings from the north or at Cambridge C.S.</del>	<del>Arrival Cambridge Reception Sidings from the north or at Cambridge C.S.</del>	5
<del>Departure from Cambridge Reception Sidings towards the north or from Cambridge C.S.</del>	<del>Departure from Cambridge Reception Sidings towards the north or from Cambridge C.S.</del>	5
Depart Cambridge platform 7 or 8 to South	Depart from Cambridge Carriage Sidings North <del>C.S.</del> routed via CA710 to same platform at Cambridge	1
Arrive Cambridge platform 7 from the North	Depart from Cambridge Carriage Sidings North <del>C.S.</del> routed via CA710 to platform 8 at Cambridge	0
Arrive Cambridge platform 8 from the North	Depart from Cambridge Carriage Sidings North <del>C.S.</del> routed via CA710 to platform 7 at Cambridge	0
Depart or Arrive Cambridge	Arrive at Cambridge from Cambridge Carriage Sidings North <del>C.S.</del> routed via CA180 to any platform at Cambridge	See matrix at Cambridge

## Coldham Lane Junction

Adjustments to Sectional Running Times		
Movement	Reason	Allowance
Trains towards Dullingham	Approach control	½
Trains from Dullingham	Not at line speed	½ at next timing point
Junction Margins		
First Movement	Second Movement	Margin
Train towards Dullingham	Train towards Cambridge	3
Train towards Cambridge	Train towards Dullingham	2
Loop Lengths		
Down Goods Loop North		89 SLUs

## Chesterton Junction

Loop Length	Value
Arrival/Departure	60 SLUs

Cambridge North		
<b>Dwell time</b>		
All <del>except as below</del>		1
GA Off peak		$\frac{1}{2}$
<b>Reoccupation of Bay Platform 3</b>		
		5
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	
Pass / depart platform 1 from Ely	Depart Bay platform 3 towards Cambridge	3
Pass / arrive platform 2 from Cambridge	Depart Bay platform 3 towards Cambridge	1
Arrive Bay platform 3 from Cambridge	Depart platform 2 towards Cambridge	1
Depart Bay platform 3 or depart platform 2 towards Cambridge	Arrive platform 1 from Ely	P
Depart Bay platform 3 or depart platform 2 towards Cambridge	Depart / pass platform 1 from Ely	4
Depart Bay platform 3 towards Cambridge	Pass / arrive platform 2 from Cambridge	4
Depart platform 2 towards Cambridge	Arrive Bay platform 3 from Cambridge	4
Arrive Bay platform 3 from Cambridge	Pass / arrive platform 2 from Cambridge	3
Depart platform 2 towards Ely	Arrive platform 2 from Ely	5*
*platform reoccupation of platform 2 when services from Ely terminate at Cambridge North		
Depart platform 2 towards Ely	Freight service depart / pass towards Ely (exit Chesterton Junction yard/sidings)	2½
Freight service arrive / pass from Ely (arrive yard sidings)	Pass / arrive platform 2 from Cambridge	3½
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	
Trains travelling from Down Main into Bay Platform 3	Approach control	{ $\frac{1}{2}$ 1}
Trains departing Bay platform 3 towards Cambridge	To allow for slow speed crossover. Adjustment time to be shown at next timing point	{1}
Trains departing platform 2 towards Cambridge	To allow for slow speed crossover. Adjustment time to be shown at next timing point	{1}
Trains arriving from Ely into platform 2	To allow for slow speed crossover. Adjustment time to be shown at Cambridge North	{½}
<b>Notes</b>		
P = Parallel/Non-conflicting		
<b>Permissive Working Restrictions</b>		
Permissive working is permitted in Cambridge North Platform 3 subject to the below restrictions:		
Attaching	A train of up to 8-cars can be attached to a 4-car train in platform 3. The 4-car train must have arrived first. A 4-car train cannot be attached to an 8-car train due to the position of the track circuits.	
Platform Sharing	A second train of up to 8-cars can arrive in platform 3 if the first train in the platform is no longer than 4-cars.	
Detaching	Permitted.	

Waterbeach		
<b>Dwell time</b>		
For services, originating from King's Cross, which depart Cambridge between 1600 and 2000		1



## Ely Dock Junction

<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Fouling move except as shown below		3
<b>First Movement</b>	<b>Second Movement</b>	
Train on Up Main towards Coldham Lane Junction	Train from Down and Up Bury single	2
<b>Where timing allowances or stops are applied in this section the below must be noted</b>		
	<b>Reason</b>	
Timing allowances/stops between Ely station and Ely Dock Jn not to be added	There are no signals in this section.	

## Ely

<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
Up departure from platform 3	Line speed through platform	½ approaching next timing point
<b>Connectional Allowance</b>		6
<b>Dwell Time – minimum</b>		1
<b>Movement</b>		<b>Minimum Allowance</b>
DMUs attach/detach on through service		6
Minimum Turnround Time		4
Train arrives in platform 3 or 2 from Ely North Junction	Train departs from other platform (2 or 3) towards Ely North Junction	1
Train arrives in platform 3 or 2 from Ely Dock Junction	Train departs from other platform (2 or 3) towards Ely Dock Junction	1
<b>Permissive Working Rules</b>		
<b>First Move</b>	<b>Second Move</b>	
Train arrives in platform 2	Second train arrives permissively in platform 2	3
Train arrives in platform 3	Second train arrives permissively in platform 3	3
Train departs platform 2	Train departs platform 2 in opposite direction or northbound via different line	2
Train departs platform 3	Train departs platform 3 in opposite direction or northbound via different line	2
<b>Splitting and Coupling of trains permitted</b>	In all platforms	
<b>Note</b>		
Platform 1 at Ely can only be accessed from Ely North Junction via the Down Line. Up trains using Platform 1 conflict at Ely with Down train departures/passes from platforms 2 or 3 unless these are routed via UL.		

## Ely Down Goods Loop

Trains which will enter Ely Down Goods Loop in the Up Direction must have a dwell time of 2 minutes in Ely Platform 1 to enable the route to be set for the train to enter the Down Goods loop

## Ely Loop Lengths

Loop	Between	Length	Remarks
Down Goods Loop	CA 760 & CA 255	90 SLUs	No access to or from Route EA 1540
Down Goods/Freight Loop	CA 760 & CA 273	179 SLUs	No access to or from Route EA 1540
Down Freight Loop	CA 762 & CA 273	60 SLUs	No access to or from Route EA 1540
Down Freight Siding	CA 764 & CA 765	60 SLUs	No access to or from Route EA 1540
Up Goods Loop	CA 287 & CA 262	111 SLUs	To or from Route EA 1540 only
Up Goods Loop	CA 287 & CA 270	85 SLUs	Access to or from Route EA 1540 and Route EA 1161
Up Engineers Stabling Siding	CA 272 & CA 769	59 SLUs	Access to or from Route EA 1540 and Route EA 1161 via Up Main

## Ely North Junction

<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
All fouling moves		3
<b>Exceptions to the above;</b>		
<b>First movement</b>	<b>Second movement</b>	
Pass Ely North Junction	Depart Ely West Curve onto down Norwich/King's Lynn	2
Pass Ely North Junction	Pass Ely West Curve onto down Norwich/King's Lynn	4
<b>Adjustments to Sectional Running Times</b>		
Trains travelling towards King's Lynn, Middleton Towers or Norwich via Ely West Curve	To allow for slow speed crossover off curve approaching Ely North Junction, adjustment time to be shown approaching the next timing point on EA1162 or EA1580 as appropriate	{2}

## EA 1162 ELY NORTH JUNCTION TO KING'S LYNN

<b>Littleport Signal L24</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Pass/arrive Littleport from King's Lynn	Depart towards King's Lynn	Simultaneous

## Littleport

<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Pass/arrive from King's Lynn	Depart towards King's Lynn (Not stopping at Littleport Signal L22)	1
Pass/arrive from King's Lynn	Pass towards King's Lynn (Not stopping at Littleport Signal L22)	2

## Restriction

Down direction trains which exceed the platform length (167m) must not be held in the station for pathing purposes. ~~This is due to level crossing risk at Littleport.~~ Trains ~~up to~~ no longer than 300m in length may be held at Littleport Signal ~~L22 instead~~L24. Trains ~~in excess of~~ longer than 300m in length must be held at Littleport Signal L24. ~~This is due to the risk of fouling the level crossing immediately south of Littleport station.~~

## Littleport Signal L22

### Junction Margins

First Movement	Second Movement	Margin
Pass/arrive Littleport from King's Lynn	Depart to King's Lynn	1

## Downham Market

### Dwell time

For services which depart Cambridge between 1600 and 2000	1
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### Junction Margins

First Movement	Second Movement	Margin
Pass/arrive from Ely	Depart to Ely	1
Pass/arrive from Ely	Pass to Ely	2

## Watlington Signal MR2

### Junction Margins

First Movement	Second Movement	Margin
Pass/arrive Watlington from King's Lynn	Depart towards King's Lynn not stopping at Watlington	Simultaneous

## Watlington

### Junction Margins

First Movement	Second Movement	Margin
Pass/arrive from King's Lynn	Depart to King's Lynn	1
Pass/arrive from King's Lynn	Pass to King's Lynn	2

### Restriction

Trains to be held at Watlington Signal MR2 instead of Watlington if dwell longer than one minute is required for pathing purposes. This is due to level crossing risk at Watlington.

## King's Lynn Stabling Siding

Length Limit	188m
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## King's Lynn

Splitting and Coupling of trains permitted	In all platforms	
Loop Lengths		
King's Lynn TC Arrival		60 SLUs
Junction Margins		
Departure following arrival		Margin 1

## EA 1170 HACKNEY DOWNS NORTH JUNCTION TO ENFIELD TOWN

### Seven Sisters

<b>Dwell Time</b>	London Overground only	1 all day
	All other operators	1 AM/PM peak
Platform Reoccupation		2½
<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Between all moves		3
<b>First Movement</b>	<b>Second Movement</b>	
Departure of down train (8 car) which has reversed south of Seven Sisters on Up Southbury	Arrival of Up train	1

### Edmonton Green

<b>Dwell Time</b>		1 AM/PM peak
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### Bury Street Junction

<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Fouling move		2½ *
Before divergence of following move		3
After merge		2½
*3 minutes applies if second train does not stop at Bush Hill Park		

### Enfield Town

<b>Loop Length</b>	Platform 3 RR using Ground Frame	24 SLUs
<b>Platform 3</b>	Planning rules for this platform will be shown here when they are confirmed	
<b>Splitting and Coupling of trains permitted</b>	Detaching in all platforms but there is no facility for attaching except by shunting from another platform	
<b>Platform Reoccupation</b>		
Platform 1		4
Platform 2		4

## EA 1180 READING LANE JUNCTION TO NAVARINO ROAD JUNCTION

<b>Loop Lengths</b>		
Navarino Road Junction – Graham Road Curve (Clear of Reading Lane Junction)		31 SLUs
Reading Lane Junction – Graham Road Curve (Clear of Navarino Road Junction)		31 SLUs

## EA 1200 CLAPTON JUNCTION TO CHINGFORD

### Walthamstow Central

Dwell Time		1
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### Chingford

#### Junction Margin

All Conflicting moves 3½ except below

First Movement	Second Movement	Margin
Depart Platform 2	Arrive Platform 2	3
Depart Platform 1	Arrive Platform 1	3
Splitting and Coupling of trains permitted		
In all Platforms		

## EA 1210 BROXBORNE JUNCTION TO HERTFORD EAST

### Hertford East

Splitting and Coupling of trains permitted	In all Platforms	
Loop Lengths		
Platform 1 and 2 Reversing Moves		50 SLUs
Platform Reoccupation	Platform 2	3

## EA 1220 STANSTED SOUTH & NORTH JUNCTIONS TO STANSTED AIRPORT

### Stansted East Junction

#### Adjustments to Sectional Running Times

Movement	Reason	Value
Trains to Stansted North Junction	Approach control	½ 170 only

Junction Margins		
First Movement	Second Movement	Margin
Pass to Cambridge Chord	Pass from Stansted Mountfitchet (having stopped there)	2½
Pass to Cambridge Chord	Pass from Stansted Mountfitchet (not having stopped there)	2
Pass from Stansted Mountfitchet	Pass to Cambridge Chord	1½

### Tye Green Junction

Junction Margins		
Movement		Margin
Fouling move		2

## Coopers Lane Junction

### Junction Margins

First Movement	Second Movement	Margin
Pass from single line	Pass/Depart from Coopers Lane Junction to single line	2
For ARS regulating purposes for trains towards the single line ARR and DEP times with activities A and * to be used and not pathing time.		

## Stansted Airport Signal L1201

For ARS regulating purposes for trains towards Stansted Airport on the Arrival Line ARR and DEP times with activities A and \* to be used and not pathing time.

## Stansted Airport Signal L1143

For ARS regulating purposes for trains towards Stansted Airport on the Departure Line ARR and DEP times with activities A and \* to be used and not pathing time.

## Stansted Airport

### Junction Margin

First Movement	Second Movement	Margin
Arrival	Departure conflicting at Stansted Airport throat	Simultaneous
Departure	Arrival conflicting at Stansted Airport throat, including reoccupation of same platform	4
<b>Minimum Turnround Time</b>		
	20 desirable for DMU's	
<b>Splitting and Coupling of trains permitted</b>		
	In all platforms	
<b>Loop Length</b>		
Platforms 1 and 3 Reversing Moves		67 SLUs

## Stansted Airport Platform Working Matrix

		2nd Move											
		Arr 1	Arr 1-DL	Arr 2	Arr 2-DL	Arr 3	Arr 3-DL	Dep 1	Dep 1-AL	Dep 2	Dep 2-AL	Dep 3	Dep 3-AL
1st Move	Arr 1	3#	3#	3	3	3	3	T	T	0	0	0	0
	Arr 1-DL	3#	3#	3	3	3	3	T	T	0	0	0	-1
	Arr 2	3	3	3#	3#	3	3	0	0	T	T	0	0
	Arr 2-DL	3	3	3#	3#	3	3	0	0	T	T	0	-1
	Arr 3	3	3	3	3	3#	3#	-1	0	-1	0	T	T
	Arr 3-DL	3	3	3	3	3#	3#	0	0	0	0	T	T
	Dep 1	9a	9	9a	9	1	9	3#	3#	3	3	3	3
	Dep 1-AL	9	9b	9	9b	9	9b	3#	3#	3	3	3	3
	Dep 2	9a	9	9a	9	1	9	3	3	3#	3#	3	3
	Dep 2-AL	9	9b	9	9b	9	9b	3	3	3#	3#	3	3
	Dep 3	9a	9	9a	9	9a	9	3	3	3	3	3#	3#
	Dep 3-AL	9	1	9	1	9	9b	3	3	3	3	3#	3#

### Notes:

#	Requires Top Train Working. Check platform can accommodate the length of two trains.
T	Minimum turnround time values apply.
a	Reoccupation time may be reduced to 4 minutes if either arrival is held at L1201 Signal for at least 3

	<del>minutes or departure is held at Coopers Lane Junction for at least 2 minutes.</del>
b	<del>Reoccupation time may be reduced to 4 minutes if either arrival is held at L1143 Signal for at least 3 minutes or departure is held at Coopers Lane Junction for at least 2 minutes.</del>

## EA 1230 ROYSTON TO SHEPRETH BRANCH JUNCTION

### Foxton

Junction Margins		
First Movement	Second Movement	Margin
Freight departs Foxton Down platform in the Up direction towards Royston	Down non-stop train passes Foxton	4
Freight departs Foxton Down platform in the Up direction towards Royston	Down stopping service arrives at Foxton	3½
Freight departs Foxton Down platform in the Up direction to Foxton Exchange Sidings	Down non-stop train passes Foxton	7
Freight departs Foxton Down platform in the Up direction to Foxton Exchange Sidings	Down stopping services arrives at Foxton	6½
Up train non-stop to Royston passes Foxton	Freight departs Foxton Down platform in the Up direction towards Royston	2
Up passenger departs Shepreth Station	Freight departs Foxton Down platform in the Up direction towards Royston	2
Down non-stop train passes Foxton	Freight arrives at Foxton from Foxton Exchange Sidings	5½
Down train departs Foxton	Freight arrives at Foxton from Foxton Exchange Sidings	6½
Loop Length		
Exchange Sidings		60 SLUs

## EA 1270 KING'S LYNN JUNCTION TO MIDDLETON TOWERS

### Middleton Towers

#### Restriction

Middleton Towers can only accommodate one train at a time – single train working. Light engine movements to be treated as an exception to this, i.e. light engines are permitted to depart and arrive when there is a set of wagons already in the sidings.

## EA 1280 STRATFORD CENTRAL JUNCTION TO COPPERMILL JUNCTION

### Stratford Station

See entry on Route EA 1010 Liverpool Street to Seven Kings

### Temple Mills East Junction

Junction Margins		
Movement		Margin
Reoccupation of Down Temple Mills Line	This allowance applies to Up Trains which will pass through Stratford Platform 12 Note this allowance will continue to apply after the re signalling for this route has been commissioned	3

### Temple Mills Loop

<b>Maximum Standage Length</b>		
Between signals S715 and S708	880 metres total length which equates to 137 SLUs BUT loco length is included in total length	

### Lea Bridge Station

<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Value</b>
Depart Lea Bridge onto Single Line	Arrive Lea Bridge from Up Line	2 ½
Arrive Lea Bridge from Single Line	Depart Lea Bridge onto Single Line	2

### EA 1290 TOTTENHAM SOUTH JUNCTION TO SOUTH TOTTENHAM

<b>South Tottenham</b>		
<b>Loop Lengths</b>		
Down Tottenham Curve towards South Tottenham Station Standing at SJ 1337 Signal		91 SLUs

### Tottenham South Junction

<b>Loop Lengths</b>		
Up Tottenham Curve towards Coppermill Junction Standing at Tottenham South Junction Signal L1004		57 SLUs

### EA 1300 SOUTH TOTTENHAM TO SEVEN SISTERS

<b>Seven Sisters</b>		
<b>Maximum Standage Length</b>		
Up & Down Chord Standing at L1327 signal, c/o South Tottenham		38 SLUs

### South Tottenham Chord Line to and from Seven Sisters

A train cannot be allowed on to the chord line whilst a train on the Down (Eastbound) T&H line is approaching South Tottenham	
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### South Tottenham

<b>Maximum Standage Length</b>		
Up and Down Chord Standing at SJ 1336 signal, c/o Seven Sisters		38 SLUs

### EA 1310 CAMDEN ROAD WEST JUNCTION TO RICHMOND

#### Kentish Town West

<b>Platform Reoccupation</b>	2½ Westbound 3 Eastbound
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## EA 1310 CAMDEN ROAD WEST JUNCTION TO RICHMOND

### Gospel Oak

<b>Dwell Time</b>		<b>1</b>
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Up train travelling towards Kentish Town West	Down train travelling towards Hampstead Heath	1
Down train travelling towards Hampstead Heath	Up train travelling towards Kentish Town West	3
<b>Minimum Turnround Time</b>		<b>5</b>
<b>Platform Reoccupation</b>		<b>2½ Westbound 3 Eastbound</b>

### Hampstead Heath

<b>Platform Reoccupation</b>	2½ Westbound 4½ Eastbound
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### Finchley Road & Frognal

<b>Platform Reoccupation</b>	4½
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### West Hampstead

<b>Dwell Time</b>	1
<b>Platform Reoccupation</b>	4 Westbound 2½ Eastbound

### Brondesbury

<b>Platform Reoccupation</b>	3½ Westbound 2½ Eastbound
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### Brondesbury Park

<b>Platform Reoccupation</b>	3½ Westbound 2½ Eastbound
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### Kensal Rise

<b>Platform Reoccupation</b>	3½ Westbound 2½ Eastbound
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### Kensal Green Turnback Siding

<b>Capacity of Siding</b>	207 meters .This equates to 2x 5 car EMU or 32 SLU
<b>Permissive Working for Splitting and Coupling of Trains Permitted</b>	In Turnback Siding

Kensal Green Junction		
<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Fouling move, except for those listed below		2½
<b>First move</b>	<b>Second move</b>	<b>Margin</b>
Down NLL train passes towards Harlesden Junction	Up NLL train passes from Willesden Jn High Level towards Kensal Rise	4
Up NLL train passes from Willesden Jn High Level towards Kensal Rise	Down NLL train passes towards Harlesden Junction	1
<b>Adjustment to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
Trains signalled towards Kensal Green Turnback Siding	Approach controlled signal NL 1036 due to overlap on points	½
For ARS regulating purposes, in the Eastbound (Up) Direction ARR and DEP times with activities A and * to be used in place of pathing time for trains which have been timed passing Harlesden Junction (Route MD 155)		
<b>Restriction</b>		
Trains from Willesden Junction High Level may not have timing allowances (apart from adjustment allowance as specified above) applied at Kensal Green Junction as there are no signals between Willesden Junction High Level and Kensal Green Junction. Also trains from Willesden Junction High Level cannot be planned to stop between Willesden Junction High Level and Kensal Green Junction. Only trains from Harlesden Junction (MD155) or from Willesden Junction Low Level (MD150) may be planned to stop in the Eastbound (Up) direction.		

Willesden Junction High Level		
Dwell Time	<del>1½ minutes for through passenger trains</del> 1½ peak 1 off peak 1 minute for arrivals which are going forward as ECS 1 minute for departures which have arrived as ECS	
Junction Margins		
Movement		Margin
Fouling move		2½
Margins for diverging moves		
First move	Second move	Margin
<del>Train passes/departs towards Mitre Bridge</del>	<del>Train passes/arrives heading for Acton Wells</del>	<del>2</del>
<del>Train passes/departs towards Acton Wells</del>	<del>Train passes/arrives heading for Mitre Bridge</del>	<del>2</del>
Minimum Turnround Time	Eastbound departure from Westbound platform	5
	Via Kensal Green Junction or Turnback Siding	10
Platform Reoccupation		3 following freight, 2 following passenger

Acton Wells Junction		
<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Fouling move following passenger		2½
Fouling move following freight		3

## Acton Wells Junction

### Freight Train Restriction – Down Freight Trains towards Acton Main Line or Acton T C

Freight Trains in the Down Direction from the Down Poplars to the Down Goods Line which are booked to change traincrew at Acton Main Line stop adjacent to SN182 signal on the Down Goods. It is not possible to route a second down train from Acton Wells Junction towards the Down Goods or Down Relief or Acton TC until the first train has drawn forward from signal SN 182 to signal SN197 signal at Acton West

## Acton Central

<b>Dwell Time</b>	Dwell time to include traction type changeover	1
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## South Acton

### Junction Margins

Movement		Margin
Fouling move		2½
<b>Minimum Turnround Time</b>		5

## Gunnersbury

### Junction Margins

First Movement	Second Movement	Margin
Train arrives Gunnersbury from South Acton	Train departs Gunnersbury towards Turnham Green	½
Train departs Gunnersbury towards Turnham Green	Train from South Acton arrives Gunnersbury	1½
Train departs Gunnersbury towards Turnham Green	Train from South Acton passes Gunnersbury	2
		<b>Value</b>
<b>Minimum Turnround Time</b>		5

## Richmond

<b>Minimum Turnround Time</b>	4 LUL 6 London Overground
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### Preferred Platforms

Platforms 3 and 4	London Overground Services
Platform 5	
Platforms 6 and 7	London Underground District Line Services

<b>Reoccupation of platform</b>	Minimum time allowed between one train departing and another arriving in the same platform including conflicting movements towards platforms	3
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<b>Splitting and Coupling of trains permitted</b>	Platform 3 only for call on to attach units
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### Adjustment to Sectional Running Times

Movement	Reason	
Train arriving into Platform 3	Re-setting due to trip cock activation	½

## Richmond

### Platform Working

		2nd Move →				
	1st Move ↓	Depart P3	Depart P4	Depart P5	Depart P6	Depart P7
	Arrive P3	-	1	1	P	P
	Arrive P4	1	-	1	P	P
	Arrive P5	1	1	-	P	P
	Arrive P6	1	1	1	-	P
	Arrive P7	1	1	1	P	-
		2nd Move →				
	1st Move ↓	Arrive P3	Arrive P4	Arrive P5	Arrive P6	Arrive P7
	Depart P3	3	3	3	3	3
	Depart P4	3	3	3	3	3
	Depart P5	3	3	3	3	3
	Depart P6	P	P	P	3	3
	Depart P7	P	P	P	P	3

## EA 1320 CAMDEN ROAD WEST JUNCTION TO STRATFORD PLATFORMS 1 & 2

### All Stations on EA 1320

Platform Reoccupation	Exceptions shown under individual stations	2½
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## EA 1320 CAMDEN ROAD WEST JUNCTION TO STRATFORD PLATFORMS 1 & 2

### Camden Road West Junction

#### Junction Margins

Movement	Margin
Fouling move	3

For ARS regulating purposes, in the Eastbound (Stratford) direction ARR and DEP times with activities A and \* to be used and not pathing time for trains which have been timed passing Camden Junction (Route MD145)

### Camden Road

Dwell Time	1
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Minimum Turnround Time	10 for Westbound arrival to Eastbound departure via NL 1200 or NL 1052 signals
	8 for Eastbound arrival to Westbound departure via (North London) King's Cross Incline line
	5 for Eastbound arrival to Westbound departure via NL1208 signal (ECS only unless specially authorised)

Platform Reoccupation	2
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### Camden Road Central Junction

Junction Margins		Margin
Up Train travelling towards Camden Road on the North London Line	Down Train travelling towards Copenhagen Junction on the North London Incline Line	3
Down Train travelling towards Copenhagen Junction on the North London Incline Line	Up Train travelling towards Camden Road on the North London Line	3

### Camden Road Central Junction

For ARS regulating purposes, in the Westbound (Down) Direction ARR and DEP times with activities A and \* to be used in place of pathing time for trains which have been timed passing York Road North Junction

### Camden Road East Junction

For ARS regulating purposes, in the Westbound direction ARR and DEP times with activities A and \* to be used and not pathing time for trains routed on the Up NL line

### York Way North Junction

**This Junction is on the North London Incline Line**

Junction Margins		
Movement		Margin
Fouling move		2½

Where trains are required to stand at Copenhagen Junction and are likely to be in excess of 630 meters in length then these should be held at York Way North Junction

### Westbourne Road Junction

Junction Margins		
Movement		Margin
Fouling move		3

For ARS regulating purposes, in the Eastbound (Stratford) direction ARR and DEP times with activities A and \* to be used and not pathing time for trains routed on the Down RL Line

### Highbury Transfer Track ELL Down Direction Only

For ARS regulating purposes in the Down Direction ARR and DEP times with activity OP to be used

### Highbury Transfer Track ELL Up Direction Only

For ARS regulating purposes in the Up Direction ARR and DEP times with activity OP to be used

### Highbury & Islington

Dwell Time	<del>SX between 0700-0900 inclusive, and SX 1630-1900 inclusive</del>	1 1½ AM/PM peak
<del>Dwell Time</del>	<del>Times excluding those stated above</del>	<del>4</del>
<b>Platform Reoccupation</b>		<b>2</b>

### Canonbury West Junction

Junction Margins		
Movement		Margin
Fouling move		3

For ARS regulating purposes, in the Eastbound (Stratford) direction ARR and DEP times with activities A and \* to be used and not pathing time for trains from the Finsbury Park direction.

## Dalston Kingsland

<b>Dwell Time</b>	Up (Westbound) trains	1 AM peak
<b>Minimum Turnround Time</b>	16 Westbound	
	12 Eastbound arrival to Westbound departure via Navarino Road Junction and Graham Road Curve	
	10 Eastbound	

## Navarino Road Junction

<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Down Train travelling towards Reading Lane Junction on the Graham Road Curve	Up Train travelling towards Dalston Kingsland	2½
Up Train travelling towards Dalston Kingsland	Down Train travelling towards Reading Lane Junction on the Graham Road Curve	2½

## Hackney Central

<b>Dwell Time</b>	1 AM/PM peak
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## Homerton

<b>Dwell Time</b>	Down (Eastbound) train	1 PM peak
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## Hackney Wick

<b>Minimum Turnround Time</b>	5
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## Lea Junction

<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Fouling move		3
For ARS regulating purposes, in the Eastbound (Stratford) direction ARR and DEP times with activities A and * to be used and not pathing time for trains which require regulation to avoid conflicting movements approaching Channelsea Junction. The conflicting movements are from Stratford platforms 1 & 2, or towards High Meads Junction		

## Channelsea Junction

### Freight Train Length restriction

Freight trains of more than 50 SLUs brought to a stand at Signal NL1294 on Channelsea Curve will be foul of Stratford Central Junction in rear and junction margins should be applied at Stratford based on departure time from signal NL1294

### Junction Margins

<b>Movement</b>		<b>Margin</b>
Between all movements		3

## Channelsea Up Loop Signal NL 1286

For ARS regulating purposes in the Westbound direction ARR and DEP times with activities A and \* to be used at Lea Jn (TIPLOC – LEAJ).

## Stratford Platforms 1 and 2

<b>Junction Margin</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Depart from Platform 1	Arrive in Platform 1 or 2	3
Depart from Platform 2	Arrive in Platform 2	2
Arrive in Platform 2	Depart from Platform 1	1

## EA 1340 STRATFORD LEA JUNCTION TO HIGH MEADS JUNCTION

### Lea Junction

For ARS regulating purposes in the Westbound direction ARR and DEP times with activities A and \* to be used and not pathing time.

## EA 1350 CHANNELSEA NORTH JUNCTION TO TEMPLE MILLS EAST JUNCTION

### High Meads Junction

For ARS regulating purposes in the Up direction towards Lea Junction or Channelsea Junction, ARR and DEP times with activities A and \* to be used and not pathing time.

### Temple Mills East Junction

For ARS regulating purposes in the Northbound (Temple Mills Loop/Orient Way/Coppermill Junction) direction, ARR and DEP times with activities A and \* to be used and not pathing time.

## EA 1360 DUDDING HILL JUNCTION TO ACTON WELLS JUNCTION

### Neasden Junction

Note that Route MD 715 Neasden South Junction to Neasden Junction is closed when Neasden Junction Signal Box is switched out. See Section 2.2 Route Opening Hours

<b>Movement</b>	<b>Minimum Allowance</b>
Run-round at Neasden Junction	30 minutes

### Acton Canal Wharf Junction

#### Loop Lengths

Down Cricklewood Run-round	43 SLUs
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#### Junction Margins

<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Train crossing towards MD170	Down train to Acton Wells Junction	3

## EA 1370 GOSPEL OAK TO BARKING TILBURY LINE JUNCTION WEST

### Gospel Oak

<b>Minimum Turnround Time</b>	5
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## Gospel Oak Signal NL 1306

For ARS regulating purposes, in the Westbound direction and so as not to block the London Overground services in the Bay platform at Gospel Oak ARR and DEP times with activities A and \* to be used and not pathing time

## Junction Road Junction

<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Fouling move		3

## Upper Holloway

<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Fouling move		3
<b>Loop Length</b>		
Reception		49 SLUs
<b>Minimum Turnround Time</b>	Via Platform	4

## Harringay Park Junction

<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Fouling move		3

## South Tottenham

<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Fouling move		3

## South Tottenham East Junction

<b>Freight Length Restriction between South Tottenham East Junction and Tottenham South Junction</b>		
Down Tottenham Curve towards South Tottenham Station Standing at SJ 1337 Signal		91 SLU
Up Tottenham Curve towards Coppermill Junction Standing at Tottenham South Junction Signal L1004		57 SLU

## South Tottenham Chord Line to and from Seven Sisters

A train cannot be allowed on to the chord line whilst a train on the Down (Eastbound) T&H line is approaching South Tottenham		
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## Blackhorse Road

<b>Dwell Time</b>	1
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## Woodgrange Park Junction

**Adjustments to Sectional Running Times for timing loads shown between Woodgrange Park and Barking for trains which have travelled through Forest Gate Junction**

TPS Timing Load	TPS Timing Load	Reason	Allowance
60-66S06	60H66S06	Speed Differential	½
60-66S08	60H66S08	Speed Differential	½
60-66S10	60H66S10	Speed Differential	½
60-66S12	60H66S12	Speed Differential	½
60-66S14	60H66S14	Speed Differential	1
60-66S16	60H66S16	Speed Differential	1
60-66S18	60H66S18	Speed Differential	1
60-66S20	60H66S20	Speed Differential	1
60-66S22	60H66S22	Speed Differential	1
60-66S24	60H66S24	Speed Differential	1
75-66S06	75C66S06	Speed Differential	½
75-66S08	75C66S08	Speed Differential	½
75-66S10	75C66S10	Speed Differential	½
75-66S12	75C66S12	Speed Differential	½
75-66S14	75C66S14	Speed Differential	1
75-66S16	75C66S16	Speed Differential	1

## Freight Length Restriction between Woodgrange Park Junction & Forest Gate Junction

Forest Gate Junction to Woodgrange Park	69 SLUs
Woodgrange Park to Forest Gate Junction	55 SLUs
<b>Junction Margins</b>	
<b>Movement</b>	<b>Margin</b>
Fouling move	3

## Woodgrange Park

Adjustments to Sectional Running Times	Reason	Allowance
Freight trains passing from Barking which use the Up Goods (GL) approaching Barking	Not linespeed at Barking due to slow speed of Up Goods	2
Freight trains passing from Barking which use the Up Tilbury (ML) and contain pathing time between Dagenham Dock and Barking	Not linespeed at Barking due to seeing restrictive aspects on the approach	1½
Trains passing towards Forest Gate Jn (if none of the above apply)	Differential linespeed	1 except 357

## Barking Station Junction

<b>Junction Margins</b>	
<b>Movement</b>	<b>Margin</b>
Fouling move	2
<b>Restriction</b>	
No pathing time to be included in the Up direction between Barking and Barking Station Junction when following a train from Barking platform 1 as the signal overlap fouls the junction. Trains are regulated at Barking Station for conflicts at Barking Station Junction.	

## Barking (Platform 1)

<b>Minimum Turnround Time</b>	5
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## EA 1380 FENCHURCH STREET TO SHOEBURYNESS

### Fenchurch Street

#### Advertised Time Changes

Trains booked to arrive at Fenchurch Street between 07.00 and 10.00 Mondays to Fridays are to be advertised to arrive 2 minutes later than WTT.

Trains which depart from Fenchurch Street between 16.00 and 19.00 Mondays to Fridays are to be advertised to arrive at destination 2 minutes later than WTT.

#### Connectional Allowance

7

#### Platforming Principles

During AM Peak it is desirable to allow 5 minutes between consecutive arrivals on the same island platform

#### Splitting, coupling and double docking of trains permitted

**Platforming Restriction – 8 car EMU trains approaching on the Up Slow Line cannot be signalled into a platform which is already occupied by a 4 car EMU train**

Minimum time allowed between one train departing and another arriving in the same platform

3

### Christian Street Junction

#### Junction Margins

##### Movement

Fouling move

#### Margin

2

### Gas Factory Junction

#### Junction Margins

##### Movement

Fouling move

#### Margin

2

#### Loop Length

Up Loop

38 SLUs

### Barking

#### Adjustments to Sectional Running Times

##### Movement

Up freight trains from Ripple Lane Exchange Sidings towards Barking via ML

##### Reason

Slow Speed connection from Ripple Lane Exchange Sidings

##### Value

{1½}

##### Dwell Time

1 peak only

#### Junction Margins

##### Movement

Fouling move where the first movement is a non-stopping train

#### Margin

2½ unless listed below

#### Margin for overlap timeout at Barking Upney Junction

##### First movement

Train arrives onto the Up Connecting Line at Barking Upney Junction from platform 7 or 8

##### Second movement

Up train arrives into platform 5

##### Margin

2½

Up train arrives into platform 5

Train arrives onto the Up Connecting Line at Barking Upney Junction from platform 7 or 8

2½

<b>Barking</b>		
<b>Barking Platform Working Margin</b>		
<b>First movement</b>	<b>Second movement</b>	<b>Margin</b>
Up train departs platform 5 towards West Ham	Down train arrives platform 7 from West Ham	2½
Down train arrives/passes platform 7 from West Ham	Up train departs platform 5 towards West Ham	Simultaneous
Down train arrives/passes platform 7 from West Ham	Up train passes platform 5 towards West Ham	½
<b>Simultaneous moves not permitted</b>		
Down train entering platform 7	Up train entering platform 8 if approaching by the Up Connecting Line	
Up train arriving platform 8	Up train departing platform 7 towards Barking Station Junction or West Ham via the Up Tilbury (shared overlap across 2207 points)	3 mins to allow for overlap to timeout
Up train departing platform 7 towards Barking Station Junction or West Ham via the Up Tilbury	Up train arriving platform 8 (shared overlap across 2207 points)	2 mins to allow for first train to clear overlap
<b>Loop Lengths</b>		
Platform 1 Reversing Moves		28 SLUs
Platform 7		38 SLUs
Platform 8		38 SLUs
Up Connecting Line Both Directions		36 SLUs

<b>Upminster</b>		
<b>Dwell Time</b>		1 peak only
<b>Junction Margins</b>		<b>Margin</b>
Fouling Move		3
Except:		
Down departure to Ockendon following conflicting Up arrival		½
Platform Reoccupation		2 (through lines only)

<b>Laindon</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
For trains to/from middle platform	Via slow speed crossover	{½}
<b>Dwell Time</b>		1 peak only
<b>Loop Length</b>		
Platform 2		38 SLUs

<b>Basildon</b>		
<b>Dwell Time</b>		1 peak only

<b>Pitsea</b>		
<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Fouling move where the first movement is a non-stopping train		2

<b>Benfleet</b>		
<b>Dwell Time</b>		1 peak only

<b>Leigh-on-Sea</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
For trains to/from middle platform	Via slow speed crossover	{½}
<b>Dwell Time</b>		1 peak only
<b>Loop Lengths</b>		
Platform 2		38 SLUs

<b>Southend Central</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
For trains to/from Platforms 1 & 4	Via slow speed crossover	{½}
<b>Dwell Time</b>	Applies to Class 357 timing loads only	1
<b>Splitting and Coupling of trains permitted</b>		
Platforms 1 and 4 only		

<b>Shoeburyness</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Departure from platform 1 towards Thorpe Bay	Arrival into any platform	4
Departure from platforms 2 or 3 towards Thorpe Bay	Conflicting arrival	3
<b>Loop Lengths</b>		
<b>Platform 1</b> Reversing Moves		40 SLUs
<b>Platform 2</b> Reversing Moves		42 SLUs
<b>Platform 3</b> Reversing Moves		29 SLUs
<b>Splitting and Coupling of trains permitted</b>	All platforms	

<b>EA 1390 BARKING TILBURY LINE JUNCTION EAST TO PITSEA JUNCTION (VIA TILBURY)</b>		
<b>All Junctions</b>		
<b>Junction Margins</b>		
<b>Movement</b>		<b>Margin</b>
Fouling moves		3

<b>Ripple Lane West SS</b>		
<b>Loop Lengths</b>		
Reception		100 SLUs

## Ripple Lane West Yard

Consists of four through sidings connected to the Up and Down Goods

<b>Loop Lengths</b>		
No. 1 Road		53 SLUs
No. 2 Road		52 SLUs
No. 3 Road		60 SLUs
No. 4 Road		74 SLUs
<b>Harry Group Sidings</b>		
No. 7 Siding		72 SLUs
No. 8 Siding		71 SLUs
<b>Stora Sidings</b>		
Stora Siding		58 SLUs
No. 1 ASW		31 SLUs
No. 2 ASW		31 SLUs

## Barking Eurohub

<b>Consists of two roads 350m in length</b>		55 SLUs
<b>Restriction</b>		<b>Minimum Allowance</b>
Down trains booked to arrive at Barking Eurohub must run-round in Ripple Lane West S.S. or at Ripple Lane Signal 807 before propelling back into Barking Eurohub at 3mph. Ripple Lane West S.S. is the preferred location for the run-round to prevent blocking the Down Goods line for the duration of the run-round.		20 minutes at previous timing point

## Ripple Lane Exchange Sidings

Freight length restriction		118 SLUs
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## Dagenham Dock

<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
Down freight trains via ML towards Dagenham Down Yard	Freight Trains under approach control signalling and via slow speed connection to Dagenham Down Yard	1½

## Purfleet

<b>Junction Margins</b>		
<b>First Move</b>	<b>Second Move</b>	
Train Arrives P1	Train 2 departs into Purfleet Long Sidings	3
Train departs P2 into Purfleet Long Sidings	Train arrives P1	5

<b>Purfleet</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
Departures passing Purfleet from Purfleet Long Siding for trains timed at Deep Wharf LC (via UR1166 signal)	Not linespeed passing Purfleet	2 after Purfleet
Purfleet	2 minute OP stop required at Purfleet for trains entering Purfleet Long Sidings to await clearance from PIC to enter Long Sidings	2
<b>Outbound</b>		
UR1176 Signal	Op Stop for trains departing Purfleet Long Sidings from West Thurrock Sidings	2
<b>Terminal Lengths</b>		
Purfleet Deep Water Wharf (Car traffic)		103 SLUs
Purfleet Deep Water Wharf (Intermodal traffic)		68 SLUs
Foster Yeoman Sidings		31 SLUs
West Thurrock Sidings		64 SLUs

<b>Purfleet Long Siding</b>
<b>Restrictions</b>
Purfleet Long Siding is split into three sections; The Spur, Jurgens Long Siding and Velacotts Long Siding. No more than one train may be in each of these three sections at any time. For timetabling purposes Jurgens Long Siding is between Purfleet and Jurgens LC. For timetabling purposes Velacotts Long Siding is between Jurgens LC and West Thurrock Headshunt. For timetabling purposes The Spur is not currently used. These sections should be treated as AB sections.

Deep Wharf LC		
Trains to or from Purfleet Foster Yeoman & to West Thurrock Sidings		
All trains must stop to operate the level crossing at Deep Wharf LC	OP stop	2 mins
Trains to Purfleet Deep Water Wharf		
All trains to Purfleet Deep Water Wharf must have a RR at Deep Wharf LC before propelling back into the terminal. No other trains should be planned onto any part of Purfleet Long Siding until the RR is complete and the train has arrived into Purfleet Deep Water Wharf.	RR Allowance (due to distance the loco must travel via 2267 points, Up Tilbury and 2265/2266 points)	45 mins
Trains from Purfleet Deep Water Wharf		
All trains from Purfleet Deep Water Wharf must be timed with an OP stop at Deep Wharf LC before departing Purfleet Long Siding via UR1166 signal, 2266 & 2265 points to Purfleet.	OP stop	2 mins

Jurgens LC		
Trains to West Thurrock Sidings		
All trains must stop to operate the level crossing at Jurgens LC	OP stop	2 mins

## Jurgens LC

### Trains to Purfleet Foster Yeoman

All trains to Purfleet Foster Yeoman must have an extended OP stop at Jurgens LC in order to activate the level crossing and propel back into the terminal.	OP stop to activate level crossing, RM and PR	10 mins
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### Trains from Purfleet Foster Yeoman

All trains from Purfleet Foster Yeoman must have a RR at Jurgens LC before departing Purfleet Long Siding via Deep Wharf LC, UR1166 signal, 2266 & 2265 points to Purfleet. No other trains should be planned onto any part of Purfleet Long Siding until the RR is complete.	RR Allowance (due to distance the loco must travel via 2267 points, Up Tilbury and 2265/2266 points)	45 mins
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## West Thurrock Headshunt

### Trains to and from West Thurrock Sidings

All trains stop before propelling move to sidings or after propelling move from sidings	RM and PR stop	2 mins
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## West Thurrock Junction

For ARS regulating purposes in the Eastbound direction, ARR and DEP times with activities A and \* are to be used and NOT pathing time approaching Grays due to overlap restrictions. This is to apply when a train is departing Platform 3 at Grays towards the Up Tilbury line or from Platform 2 towards Ockendon.

## Grays

<b>Dwell Time</b>		1 peak only
<b>Loop Lengths</b>		
Third Line Down Direction		100 SLUs
Third Line Up Direction via Ockendon only		100 SLUs
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
Down freight trains approaching Seabrooks Sidings or Tilbury RCT	Freight Trains under approach control signalling and via Slow Speed connection	{1½}
Trains travelling from the ML at West Thurrock into Grays platform 3	{1} unless RVL route is used, in which case {½} is sufficient	{1} or {½}
Trains departing Grays platform 3 onto ML at West Thurrock Jn		{½}
Splitting and Coupling of trains permitted	Detaching of units permitted in Platform 3 only	

## Tilbury Town

<b>Connectional Allowance</b>		3
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## Tilbury West Junction

<b>Junction Margin</b>		<b>Margin</b>
Fouling move where the first movement is a freight train entering Tilbury Riverside International Rail Freight Terminal.		4

## Thames Haven Junction

Adjustments to Sectional Running Times		
Movement	Reason	Value
Down freight trains towards London Gateway Port facility/Thames Haven TC	All trains under approach control signalling (UR 715) and via Slow Speed connection towards London Gateway Port facility/Thames Haven	{1½}
Junction Margin		Margin
Fouling move where the first movement is a freight train towards London Gateway Port facility/Thames Haven TC		4

## EA 1410 UPMINSTER TO WEST THURROCK JUNCTION

### Ockendon

Loop Lengths		
Down		36 SLUs
Up		36 SLUs
Single Line Crossing	First train arrives at xx and departs xx +02½. Passing train arrives xx +02 and departs xx +02½	
Restriction		
c2c services calling at Ockendon in the down direction must be planned to use Platform 1 unless otherwise agreed in advance with the operator. This is due to a lack of DOO equipment at the country end of Platform 2 meaning that if a train is required to call at this platform in the down direction then dispatch staff are required.		

## EA 1420 THAMES HAVEN JUNCTION TO LONDON GATEWAY PORT/THAMES HAVEN SIDINGS

### Thames Haven

Maximum Standage Length		
Reception		68 SLUs

## EA 1430 EAST SUFFOLK JUNCTION TO OULTON BROAD NORTH JUNCTION

### Westerfield

Junction Margins		
First Movement	Second Movement	Margin
Up passenger trains departs/passes platform 1	Down trains passes/arrives platform 1	3
Up freight train passes platform 1	Down train passes/arrives platform 1	3½

### Woodbridge

Dwell Time		
		1

### Melton

Stopping Instructions		
Single Line. Down trains must be timed to stop before continuing over Level Crossing		



<b>Saxmundham</b>		
<b>Dwell Time</b>		1

<b>Darsham</b>		
<b>Dwell Time</b>	For ECS/Freight/Network Services trains travelling on either line in Up direction to show an OP stop or Suppression of traffic stop indicator dwell time activity in schedule	½

<b>Halesworth</b>		
<b>Dwell Time</b>		1

<b>Beccles</b>		
<b>Dwell Time</b>		1
<b>Single Line crossing</b>	First train arrives at xx and departs xx +03½. Second train arrives xx +02½ and departs xx +03½	

## EA 1440 WESTERFIELD JUNCTION TO FELIXSTOWE TOWN

<b>Derby Road</b>		
<b>Loop Lengths</b>		
Down		118 SLUs
Up		118 SLUs
<b>Platforming Principles</b>		
Where possible Down services should use platform 2 and Up services should use platform 1.		
<b>Single Line Crossing</b>	First train arrives at xx and departs xx +03 Second train arrives at xx +02 and departs xx +02½  First train arrives at xx and departs xx +04 Second train passes at xx +02	

<b>Gun Lane Junction</b>		
<b>Adjustments to Sectional Running Times</b>		
<b>Movement</b>	<b>Reason</b>	<b>Value</b>
Train to TL line	Approach control	½
Train passing from TL line	Line speed differential	½ After Gun Lane Junction
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Passenger train passes to Trimley	Freight train passes to Derby Road from TL	5
Passenger train passes to Trimley	Freight train departs to Derby Road from TL	1½
Freight train passes to Trimley via FS	Freight train passes to Derby Road from TL	5½
Freight train passes to Trimley via FS	Freight train departs to Derby Road from TL	2
Freight train passes to Trimley via TL	Passenger train passes to Derby Road	2
Freight train passes to Trimley via TL	Freight train passes to Derby Road from FS	3

## Trimley

### Adjustments to Sectional Running Times

Movement	Reason	Value
Up train from Felixstowe Beach Junction passing to TL line	Approach control	1
Up train from Felixstowe North/Central to FS line	Speed differential from slower speed line	1½ After Trimley
Up train from Felixstowe North/Central to TL line	Speed differential from slower speed line	1 After Trimley
Down train towards Felixstowe North/Central from FS line	Approach control	1
Down train towards Felixstowe Beach Junction from TL line	Speed differential from slower speed line	1 After Trimley
Down train towards Felixstowe Beach Junction from FS line which has stopped at Trimley signal FW9029	Not at line speed passing Trimley	1 After Trimley

### Junction Margins

First Movement	Second Movement	Margin
Freight train passes to Felixstowe Beach Junction from FS	Freight train passes from Felixstowe North/Central crossing to FS	2½
Freight train passes to Felixstowe Beach Junction from TL	Freight train passes from Felixstowe North/Central	3½
Freight train passes towards Gun Lane Junction via TL	Freight train passes towards Felixstowe North/Central crossing from FS	3
Freight train passes towards Gun Lane Junction	Conflicting Down train departs from signal FW9029 or FW9031	2
Freight train passes from Felixstowe Beach Junction	Freight train passes to Felixstowe Beach Junction from TL	3½

### Restriction

There are no down direction signals at Trimley station. This means that:

- Down trains which require to be regulated require a stop at Trimley signal FW9029 (FS) or Trimley signal FW9031 (TL).
- A Down train cannot be routed into Trimley station if an Up train has passed Felixstowe Beach Junction towards Trimley, even if the Up train is routed TL at Trimley.

At Trimley the up direction signal is located before the platform. This means that:

- An Up train cannot be routed into Trimley station if there is another train in the Trimley to Gun Lane Junction section on the FS.

## Felixstowe Beach Junction

### Junction Margins

First Movement	Second Movement	Margin
Freight Train towards Felixstowe Beach Branch	Passenger Train departing from Felixstowe Town	3

## EA 1450 TRIMLEY TO FELIXSTOWE NORTH AND CENTRAL TERMINALS

### Felixstowe Signal NQ4

Junction Margins		
First Movement	Second Movement	Margin
Inbound train from Trimley passes Felixstowe NQ4	Outbound train to Trimley passes Felixstowe NQ4	8

## EA 1460 FELIXSTOWE BEACH JUNCTION TO FELIXSTOWE BEACH

### Felixstowe Creek Sidings

#### Adjustments to Sectional Running Times

Movement	Reason	Value
Train approaching from Felixstowe Beach	Train is doing approximately 5 mph and is required to draw down towards the stop board under control of Felixstowe Port staff.	4
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Freight train arrives at Creek RS from site of Felixstowe Beach Station	Freight train departs Creek RS towards site of Felixstowe Beach Station	3

## EA 1470 NORWICH THORPE JUNCTION TO LOWESTOFT

### Brundall

<b>Dwell Time</b>	1
<b>Single Line Reoccupation</b>	2½

## EA 1470 NORWICH THORPE JUNCTION TO LOWESTOFT

### Reedham

Dwell Time		1
Single Line reoccupation	To or from Great Yarmouth	2½

### Oulton Broad North

<b>Dwell Time</b>	1
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### Coke Ovens Junction

<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Up train passes	Down train crosses to Up Lowestoft line	1½

### Lowestoft

<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Arrive platform 3 or 4	Depart different platform	1
Depart platform 2	Arrive platform 2	4
<b>Loop Length</b>		
Reception		48 SLUs
<b>Splitting and Coupling of trains permitted</b>	All platforms	

## EA 1480 WHITLINGHAM JUNCTION TO CROMER

### Hoveton & Wroxham

<b>Dwell Time</b>		1
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Train leaves single line section	Train enters single line section	1

### North Walsham

<b>Dwell Time</b>		1
<b>Loop Lengths</b>		
Down		50 SLUs
Up		50 SLUs
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Margin</b>
Passenger train leaves single line section	Passenger train enters single line section	1
Freight Train leaves single line section	Freight train enters single line section for North Walsham Yard	3
Freight Train leaves single line section	Passenger train enters the single line section	3

### Cromer

<b>Minimum Turnround</b>	1 or 2 Car DMU	4
<b>Single Line Reoccupation for Diesel Unit</b>		2
<b>Single Line Reoccupation for Charter train requiring pilot working</b>		5

## EA 1490 CROMER TO SHERINGHAM

### Sheringham

Moves on or off the North Norfolk Railway cannot take place without prior agreement from the Local Operations Manager (Trowse)	
Allowance for pilot working to be withdrawn after a charter train has departed to Sheringham NN Railway (SHRGNNR). The allowance should be shown as additional dwell at Sheringham	5
Allowance for pilot working to be introduced before a charter train can depart from Sheringham NN Railway (SHRGNNR) towards Sheringham. The allowance should be shown as additional dwell at Sheringham	5

## EA 1500 BRUNDALL JUNCTION TO YARMOUTH

### Brundall

<b>Dwell Time</b>		4
<b>Single Line Reoccupation</b>		2½

### Acle

<b>Dwell Time</b>		1
<b>Loop Lengths</b>		
Down		40 SLUs
Up		27 SLUs

Acle		
Single Line Crossing	First train arrives at xx and departs xx +02½ Second train arrives xx +02 and departs xx +03	
	If the Up train exceeds the Up Loop length the down train must arrive first and depart second.	

Great Yarmouth		
Single Line Reoccupation		2½
Splitting and Coupling of trains permitted	All platforms	

EA 1520 SAXMUNDHAM JUNCTION TO SIZEWELL		
Leiston		
Loop Length		
Loop		19 SLUs

EA 1530 COLDHAM LANE JUNCTION TO HAUGHLEY JUNCTION		
Dullingham		
Loop Lengths		
Down	141 SLUs	
Reversible	188 SLUs	
Single Line Crossing	Down train arrives xx and departs xx +02½ Up train arrives xx +02 and departs xx +03	

Newmarket		
Dwell Time		1

Bury St Edmunds		
Dwell Time		1
Loop Lengths		
Down Goods Loop		60 SLUs
Up Reception	Headshunt beyond the points leading back to the Up Main line to achieve 60 SLUs	60 SLUs
Up Reception	Without headshunt	25 SLUs
Splitting and coupling of trains permitted	Attaching or detaching in service	4

EA 1540 CHIPPENHAM JUNCTION TO ELY DOCK JUNCTION		
Chippenham Jn		
Junction Margins		
First Movement	Second Movement	
Down trains from Cambridge	Up train to Cambridge	2

<b>Snailwell</b>	
<b>Loop Length</b>	
Reception	60 SLUs

<b>EA 1560 ELY NORTH JUNCTION TO KINGS DYKE (INCLUSIVE)</b>		
<b>Ely West Junction</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	
Pass Ely West Junction onto the Ely West Curve	Pass Ely North Junction towards Peterborough	3
Pass Ely North Junction towards Peterborough	Pass Ely West Junction onto the Ely West Curve	3

<b>Manea</b>	
<b>Dwell Time</b>	1 GA

<b>March West Junction</b>		
Adjustments to sectional running times for trains onto EA1570 (towards Whitemoor) for deceleration/approach control, to be shown approaching March West Junction		
<b>Timing load</b>		<b>Value</b>
All timing loads		1½
Adjustments to sectional running times for trains from EA1570 (from Whitemoor) for acceleration, to be shown after March West Junction		
<b>Timing load</b>		<b>Value</b>
Class 4 timing loads	Up to 1200t and up to TR70	2
	1400t	3
	1600t - 1800t	3½
Class 6 and 7 timing loads (non-HAW)	400t/600t	1
	800t and TR40	1½
	1000t/1200t and TR55/TR70	2
	1400t and TR85	3
	1600t – 2000t and TR100/115	3½
	2200t – 2400t and TR130	4
Class 6 and 7 timing loads (HAW)	Up to 2000t and up to TR115	1
	2200t	1½
	2400t and TR130	2

<b>March</b>	
Note: Freight trains, less than 76 SLUs, stopping in the down direction for crew relief, must be planned to stop in the Down Goods Loop if available. Stopping in the down platform at March results in the level crossing being blocked for an extended period of time.	
<b>Dwell Time</b>	1 GA

<b>March</b>		
<b>Junction Margins</b>		
<b>First Movement</b>	<b>Second Movement</b>	<b>Value</b>
Freight arrives March Up loop	Freight passes March in the Up direction	4
<b>Loop Lengths</b>		
Down Goods 1		76 SLUs
Down Goods 2		74 SLUs
Up Goods 1		62 SLUs
Up Reception		39 SLUs

<b>Whittlesea</b>		
<b>Dwell Time</b>		
		1 GA

<b>EA 1570 MARCH EAST &amp; WEST JUNCTIONS TO WISBECH</b>		
<b>Whitemoor Junction</b>		
<b>Junction Margin</b>		<b>Margin</b>
All movements		3

<b>EA 1580 ELY NORTH JUNCTION TO TROWSE JUNCTION</b>		
<b>Brandon</b>		
<b>Dwell Time</b>		1
<b>Loop Length</b>		
Down Goods Loop		75 SLUs

<b>Thetford</b>		
<b>Dwell Time</b>		1

<b>Attleborough</b>		
<b>Dwell Time</b>		1

<b>Wymondham Down Sidings</b>		
<b>Loop Length</b>		
Down Sidings		45 SLUs

<b>Wymondham</b>		
<b>Dwell Time</b>		
		1 GA

<b>Wymondham Lane (Up Sidings)</b>		
<b>Loop Length</b>		
Up Sidings		45 SLUs

## 5.4 Platform Lengths

The table below shows the maximum length of train that may use each of the platforms at the following passenger stations. All lengths are in metres. The quoted lengths are the usable lengths from ramp to ramp unless specified. The measurements take no account of the need for signal sighting. Passenger Trains longer than the quoted lengths will only be accepted subject to the authority of the Route Director.

	Platform	Effective Length	Notes
Acle	Down	118	(86 in use)
Acle	Up	169	(82 in use)
Acton Central	Eastbound	133	
Acton Central	Westbound	117	
Alresford	Down	172	
Alresford	Up	172	
Althorne	Single	162	
Attleborough	Down	114	
Attleborough	Up	128	
Audley End	Down	248	
Audley End	Up	248	Bi-directional movement available through Up platform
Barking	1	183	
Barking	4	278	
Barking	5	257	
Barking	7	246	
Barking	8	257	
Basildon	Down	251	
Basildon	Up	251	
Battlesbridge	Single	164	
Beccles	Down	125	
Beccles	Up	125	
Benfleet	Down	251	
Benfleet	Up	251	
Berney Arms	Single	18	
Bethnal Green	Down	187	Suburban Line only
Bethnal Green	Up	187	Suburban Line only
Billericay	Down	249	
Billericay	Up	248	
Bishop's Stortford	1	251	
Bishop's Stortford	2	251	
Bishop's Stortford	3	251	
Blackhorse Road	Eastbound	84	
Blackhorse Road	Westbound	84	
Braintree	Single	247	
Braintree Freeport	Single	166	
Brampton	Single	98	
Brandon	Down	91	
Brandon	Up	91	
Brentwood	1	211	
Brentwood	2	211	
Brentwood	3	211	
Brentwood	4	211	
Brimsdon	Down	181	
Brimsdon	Up	162	
Brondesbury	Eastbound	107	
Brondesbury	Westbound	107	



	Platform	Effective Length	Notes
Brondesbury Park	Eastbound	127	
Brondesbury Park	Westbound	107	
Broxbourne	1	172	
Broxbourne	2	245	
Broxbourne	3	245	
Broxbourne	4	172	
Bruce Grove	Down	190	
Bruce Grove	Up	190	
Brundall	Down	143	(98 in use)
Brundall	Up	159	(118 in use)
Brundall Gardens	Down	58	
Brundall Gardens	Up	58	
Buckenham	Down	135	(52 in use)
Buckenham	Up	60	
Bures	Single	82	
Burnham-on-Crouch	Single	169	
Bury St Edmunds	Down	156	
Bury St Edmunds	Up	105	
Bush Hill Park	Down	187	
Bush Hill Park	Up	187	
Caledonian Road & Barnsbury	Eastbound	123	
Caledonian Road & Barnsbury	Westbound	140	
Cambridge	1	255	12 car capacity
Cambridge	2	207	
Cambridge	3	166	
Cambridge	4	220	
Cambridge	5	127	
Cambridge	6	145	Maximum EMU 4 Car plus DMU Class 158/170 2 Car. Alternatively 4 CAR Class 158/170
Cambridge	7	253	
Cambridge	8	253	
Cambridge Heath	Down	189	Suburban Line only
Cambridge Heath	Up	185	Suburban Line only
Cambridge North	1	254	
Cambridge North	2	254	
Cambridge North	3	254	
Camden Road	Eastbound	121	
Camden Road	Westbound	109	
Canonbury	Eastbound Platform 4 NLL	88	
Canonbury	Westbound Platform 3 NLL	88	
Cantley	Down	159	(116 in use)
Cantley	Up	165	(118 in use)
Chadwell Heath	1	211	
Chadwell Heath	2	213	
Chadwell Heath	3	214	
Chadwell Heath	4	213	
Chafford Hundred	Single	242	
Chalkwell	Down	248	
Chalkwell	Up	248	
Chappel & Wakes Colne	Single	107	
Chelmsford	Platform 1	247	
Chelmsford	Platform 2	248	

	Platform	Effective Length	Notes
Cheshunt	Platform 3 Bay	164	
Cheshunt	Platform 2 Down	245	
Cheshunt	Platform 1 Up	245	
Chingford	Platform 1	167	
Chingford	Platform 2	193	
Chingford	Platform 3	186	
Clacton-on-Sea	Platform 1	167	
Clacton-on-Sea	Platform 2	248	
Clacton-on-Sea	Platform 3	185	
Clacton-on-Sea	Platform 4	248	
Clapton	Down	186	
Clapton	Up	186	
Colchester	Platform 1	251	
Colchester	Platform 2	260	
Colchester	Platform 3	248	
Colchester	Platform 4	318	(256 in use)
Colchester	Platform 5	220	
Colchester	Platform 6	223	
Colchester Town	Single	245	
Cressing	Single	178	
Cromer	Platform 1	137	
Cromer	Platform 2	137	
Crouch Hill	Eastbound	122	
Crouch Hill	Westbound	122	
Dagenham Dock	Down	243	
Dagenham Dock	Up	247	
Dalston Kingsland	Eastbound	108	
Dalston Kingsland	Westbound	103	
Darsham	Down	98	
Darsham	Up	147	
Derby Road	Down	137	(74 in use) Platform 2
Derby Road	Up	137	(80 in use) Platform 1
Diss	Down	250	
Diss	Up	250	
Dovercourt	Single	166	
Downham Market	Down	181	
Downham Market	Up	183	
Dullingham	Down	103	
Dullingham	Up	96	Platform 1 Bi-Directional movement available through Up platform
East Tilbury	Down	245	
East Tilbury	Up	247	
Eccles Road	Down	77	
Eccles Road	Up	77	
Edmonton Green	Down	185	
Edmonton Green	Up	186	
Elmswell	Down	61	
Elmswell	Up	61	
Elsenham	Down	167	
Elsenham	Up	165	

	Platform	Effective Length	Notes
Ely	1	256	Bi-Directional working through all platforms
Ely	2	256	Bi-Directional working through all platforms
Ely	3	256	Bi-Directional working through all platforms
Emerson Park	Single	86	
Enfield Lock	Down	165	
Enfield Lock	Up	167	
Enfield Town	1	185	
Enfield Town	2	184	
Enfield Town	3	186	4 Car EMU Only
Felixstowe Town	Single	107	Actual length 149m, 107m in use.
Fenchurch Street	1	250	
Fenchurch Street	2	250	
Fenchurch Street	3	250	
Fenchurch Street	4	250	
Finchley Rd & Frognal	Eastbound	129	
Finchley Rd & Frognal	Westbound	107	
Forest Gate	1	173	
Forest Gate	2	178	
Forest Gate	3	190	
Forest Gate	4	198	
Foxton	Down	174	Platform 2
Foxton	Up	105	Platform 1
Frinton On Sea	Single	179	
Gidea Park	1	211	
Gidea Park	2	211	
Gidea Park	3	227	
Gidea Park	4	228	
Goodmayes	1	212	
Goodmayes	2	212	
Goodmayes	3	212	
Goodmayes	4	212	
Gospel Oak	Bay	113	
Gospel Oak	Westbound	106	
Gospel Oak	Eastbound	121	
Grays	1	247	
Grays	2	253	
Grays	3	173	
Great Bentley	Down	168	
Great Bentley	Up	168	
Great Chesterford	Down	167	
Great Chesterford	Up	167	
Great Yarmouth	2	282	
Great Yarmouth	3	282	(180 in use)
Great Yarmouth	4	268	(174 in use)
Gunnersbury	Westbound	112	
Gunnersbury	Eastbound	130	
Gunton	Single	87	
Hackney Central	Eastbound	126	
Hackney Central	Westbound	126	
Hackney Downs	1	214	
Hackney Downs	2	192	
Hackney Downs	3	192	
Hackney Downs	4	186	

	Platform	Effective Length	Notes
Hackney Wick	Eastbound	126	
Hackney Wick	Westbound	126	
Haddiscoe	Down	182	(85 in use)
Haddiscoe	Up	46	
Halesworth	Down	96	(66 in use)
Halesworth	Up	152	(66 in use)
Hampstead Heath	Eastbound	107	
Hampstead Heath	Westbound	109	
Harling Road	Down	90	
Harling Road	Up	127	
Harlow Mill	Down	168	
Harlow Mill	Up	168	
Harlow Town	1	251	
Harlow Town	2	251	
Harlow Town	3	251	
Harlow Town	4	251	
Harold Wood	1	209	
Harold Wood	2	211	
Harold Wood	3	209	
Harold Wood	4	211	
Harringay Green Lanes	Eastbound	220	
Harringay Green Lanes	Westbound	220	
Harwich International	1	262	
Harwich International	2	264	
Harwich International	3	259	
Harwich Town	Single	169	
Hatfield Peverel	Down	250	
Hatfield Peverel	Up	250	
Hertford East	1	165	
Hertford East	2	165	
Highams Park	Down	186	
Highams Park	Up	180	
Highbury & Islington NLL	7 – Westbound	126	
Highbury & Islington NLL	8 - Eastbound	128	
Hockley	Down	250	
Hockley	Up	250	
Homerton	Eastbound	104	
Homerton	Westbound	103	
Hoveton & Wroxham	Down	104	
Hoveton & Wroxham	Up	93	
Hythe	1 – Up	250	
Hythe	2- Down	272	
Ilford	1	226	
Ilford	2	221	
Ilford	3	233	
Ilford	4	227	
Ingatestone	1	248	
Ingatestone	2	250	
Ipswich	1	135	
Ipswich	2	245	
Ipswich	3	255	
Ipswich	4	254	

	Platform	Effective Length	Notes
Kelvedon	Down	257	
Kelvedon	Up	249	
Kennet	Down	78	
Kennet	Up	54	
Kensal Rise	Eastbound	122	
Kensal Rise	Westbound	104	
Kentish Town West	Eastbound	109	
Kentish Town West	Westbound	109	
Kew Gardens	Eastbound	112	
Kew Gardens	Westbound	158	
King's Lynn	1	220	
King's Lynn	2	175	
Kirby Cross	Down	166	
Kirby Cross	Up	166	
Laindon	1	249	
Laindon	2	249	Bi-Directional working permitted
Laindon	3	249	
Lakenheath	Down	149	
Lakenheath	Up	119	
Lea Bridge	Down	172	
Lea Bridge	Up	172	
Leigh-on-Sea	1	247	
Leigh-on-Sea	2	248	Bi-Directional working permitted
Leigh-on-Sea	3	248	
Leyton Midland Road	Westbound	156	
Leyton Midland Road	Eastbound	156	
Leytonstone High Road	Westbound	163	
Leytonstone High Road	Eastbound	163	
Limehouse	Down	250	
Limehouse	Up	250	
Lingwood	Single	92	
Littleport	Down	<del>86 to be extended to 167</del>	Platform extension due to be completed during May 20 timetable
Littleport	Up	86	Works due to be completed during May 20 timetable will enable longer trains to stop using SDO Trains longer than 4-car can call providing they are equipped with SDO (Selective Door Opening) equipment
Liverpool Street	1	242	
Liverpool Street	2	252	
Liverpool Street	3	252	
Liverpool Street	4	252	
Liverpool Street	5	252	
Liverpool Street	6	252	
Liverpool Street	7	252	
Liverpool Street	8	244	
Liverpool Street	9	256	
Liverpool Street	10	248	
Liverpool Street	11	261	
Liverpool Street	12	246	
Liverpool Street	13	256	
Liverpool Street	14	246	
Liverpool Street	15	246	

	Platform	Effective Length	Notes
Liverpool Street	16	162*	*Works to remove platform 18 are planned, P16 becomes 219m once works are completed
Liverpool Street	17	162*	*Works to remove platform 18 are planned, P17 becomes 207m once works are completed
Liverpool Street	18	162*	*Works to remove platform 18 are planned, will be unavailable once works are completed
London Fields	Down	197	Suburban Line only
London Fields	Up	196	Suburban Line only
Lowestoft	2	214	(119 in use)
Lowestoft	3	229	(115 in use)
Lowestoft	4	229	(115 in use)
Manea	Down	42	
Manea	Up	49	
Manningtree	1	108	
Manningtree	2	245	
Manningtree	3	245	
Manor Park	1	168	
Manor Park	2	185	
Manor Park	3	194	
Manor Park	4	163	
March	Down	194	
March	Up	115	
Marks Tey	Down	247	Platform 2
Marks Tey	Sudbury	50	Platform 3
Marks Tey	Up	233	Platform 1
Maryland	1	168	
Maryland	2	169	
Maryland	3	169	
Maryland	4	168	
Meldreth	Down	128	
Meldreth	Up	128	
Melton	Single	66	(56 in use)
Meridian Water	2	175	For use on single line only
Meridian Water	3	175	Up direction platform
Meridian Water	4	175	Down direction platform
Mistley	Down	89	
Mistley	Up	91	
Needham Market	Down	83	
Needham Market	Up	71	
Newmarket	Single	231	68 in use
Newport	Down	167	
Newport	Up	168	
Northumberland Park	2	175.5	Platform for single line use only
Northumberland Park	3	175.5	Formerly up direction platform 1
Northumberland Park	4	175.5	Formerly down direction platform 2
North Fambridge	Down	165	
North Fambridge	Up	165	
North Walsham	Down	101	
North Walsham	Up	106	

	Platform	Effective Length	Notes
Norwich	1	298	
Norwich	2	296	
Norwich	3	250	
Norwich	4	255	
Norwich	5	198	
Norwich	6	132	
Ockendon	Down	248	Bi-Directional working permitted
Ockendon	Up	248	
Oulton Broad North	Down	149	(89 in use)
Oulton Broad North	Up	146	(102 in use)
Oulton Broad South	Single	138	(92 in use)
Pitsea	1	250	
Pitsea	2	250	
Pitsea	3	253	
Pitsea	4	253	
Ponders End	Down	166	
Ponders End	Up	167	
Prittlewell	Down	250	
Prittlewell	Up	248	
Purfleet	Down	246	
Purfleet	Up	266	
Rainham	Down	242	
Rainham	Up	247	
Rayleigh	Down	249	
Rayleigh	Up	248	
Rectory Road	Down	187	
Rectory Road	Up	186	
Reedham	Down	192	(83 in use)
Reedham	Up	175	(91 in use)
Richmond	3	120	
Richmond	4	120	
Richmond	5	120	
Richmond	6	129	
Richmond	7	129	
Rochford	Down	249	
Rochford	Up	249	
Romford	1	91	
Romford	2	211	
Romford	3	211	
Romford	4	211	
Romford	5	211	
Rotherhithe	1 – Up	76	
Rotherhithe	2 - Down	76	
Roughton Road	Single	58	
Roydon	Down	170	
Roydon	Up	172	
Rye House	Down	170	
Rye House	Up	186	
St James Street	Down	188	
St James Street	Up	187	

	Platform	Effective Length	Notes
St Margarets	Down	163	
St Margarets	Up	199	
Salhouse	Down	125	(81m in use) Platform 2
Salhouse	Up	83	Platform 1
Sawbridgeworth	Platform 2 Down	245	
Sawbridgeworth	Platform 1 Up	245	
Saxmundham	Down	70	
Saxmundham	Up	108	
Seven Kings	1	180	
Seven Kings	2	180	
Seven Kings	3	187	
Seven Kings	4	187	
Seven Sisters	Down	184	
Seven Sisters	Up	188	
Shelford	Down	180	
Shelford	Up	180	
Shenfield	1	249	
Shenfield	2	249	
Shenfield	3	255	
Shenfield	4	246	
Shenfield	5	245	
Shenfield	6	209	
Shepreth	Down	171	Platform 2
Shepreth	Up	97	Platform 1
Sheringham	Single	80	
Shippea Hill	Down	147	(85m in use) Platform 1
Shippea Hill	Up	132	Platform 2
Shoeburyness	1	255	
Shoeburyness	2	264	
Shoeburyness	3	181	
Silver Street	Down	188	
Silver Street	Up	188	
Somerleyton	Down	148	
Somerleyton	Up	127	
South Acton	Eastbound	106	
South Acton	Westbound	116	
South Tottenham	Eastbound	52	
South Tottenham	Westbound	81	
Southbury	Down	186	
Southbury	Up	186	
Southend Airport	2 - Down	250	
Southend Airport	1 - Up	250	
Southend Central	1	248	
Southend Central	2	251	
Southend Central	3	276	
Southend Central	4	248	
Southend East	Down	246	
Southend East	Up	246	
Southend Victoria	1	248	
Southend Victoria	2	244	
Southend Victoria	3	244	
Southend Victoria	4	247	
Southminster	Single	171	



	Platform	Effective Length	Notes
South Woodham Ferrers	Single	264	
Spooner Row	Down	42	
Spooner Row	Up	48	
Stamford Hill	Down	186	
Stamford Hill	Up	187	
Stanford-le-Hope	Down	243	
Stanford-le-Hope	Up	257	
Stansted Airport	1	324	Total length 341 metres
Stansted Airport	2	95	95m useable length 109m physical length
Stansted Airport	3	292	
Stansted Mountfitchet	Platform 2 Down	248	
Stansted Mountfitchet	Platform 1 Up	245	
Stoke Newington	Down	*	* 8-car platform, length to be confirmed
Stoke Newington	Up	*	* 8-car platform, length to be confirmed
Stowmarket	Down	250	
Stowmarket	Up	250	
Stratford	1	133	
Stratford	2	100	
Stratford	3	-	LUL Central line
Stratford	4	-	Docklands Light Railway
Stratford	5	252	Up Electric
Stratford	6	-	LUL Central line
Stratford	8	252	Down Electric
Stratford	9	255	Up Main
Stratford	10	255	
Stratford	10A	254	
Stratford	11	231	
Stratford	12	182	
Sudbury	Single	52	
Theobalds Grove	Down	191	
Theobalds Grove	Up	189	
Thetford	Down	150	
Thetford	Up	111	
Thorpe Bay	Down	249	
Thorpe Bay	Up	249	
Thorpe-le-Soken	1	248	
Thorpe-le-Soken	2	248	
Thurston	Down	90	
Thurston	Up	86	
Tilbury Town	Down	247	
Tilbury Town	Up	249	
Tottenham Hale	4	259.5	Down direction platform, formally platform 2
Tottenham Hale	2	175	Platform for use on single line only
Tottenham Hale	3	254	Formally up direction platform 1
Trimley	Single	141	(74 in use)
Turkey Street	Down	188	
Turkey Street	Up	188	

	Platform	Effective Length	Notes
Upminster	Platform 1	247	
Upminster	Platform 1a	143	8 car multiple unit ECS reversal permitted
Upminster	Platform 2	247	
Upminster	Platform 6	87	
Upper Holloway	Westbound	124	
Upper Holloway	Eastbound	124	
Waltham Cross	Down	184	
Waltham Cross	Up	170	
Walthamstow Central	Down	184	
Walthamstow Central	Up	188	
Walthamstow Queens Road	Eastbound	154	
Walthamstow Queens Road	Westbound	181	
Walton-on-the-Naze	Single	167	
Wanstead Park	Eastbound	147	
Wanstead Park	Westbound	47	
Ware	Single	165	
Waterbeach	Down	<del>86 to be extended to 167</del>	Platform extension due to be completed during May 20 timetable
Waterbeach	Up	<del>90 to be extended to 167</del>	Platform extension due to be completed during May 20 timetable
Watlington	Down	106	
Watlington	Up	90	
Weeley	Down	167	
Weeley	Up	167	
West Ham	Down	248	LTS route
West Ham	Up	248	LTS route
West Hampstead	Eastbound	118	
West Hampstead	Westbound	106	
West Horndon	Down	248	
West Horndon	Up	248	
West Runton	Single	91	
Westerfield	Down	100	(83m in use) Platform 2
Westerfield	Up	100	(96m in use) Platform 1
Westerfield	Down	100	
Westerfield	Up	100	
White Hart Lane	Down	189	
White Hart Lane	Up	186	
White Notley	Single	249	
Whittlesea	Down	45	
Whittlesea	Up	62	
Whittlesford Parkway	Down	254	
Whittlesford Parkway	Up	254	
Wickford	Platform 1	109	
Wickford	Platform 2	248	
Wickford	Platform 3	252	
Wickford	Platform 4	105	
Wickham Market	Single	161	
Willesden Junction High Level	Eastbound	120	
Willesden Junction High Level	Westbound	128	
Witham	Platform 1	250	
Witham	Platform 2	249	
Witham	Platform 3	252	
Witham	Platform 4	250	

	Platform	Effective Length	Notes
Wivenhoe	Down	248	
Wivenhoe	Up	248	
Wood Street	Down	186	
Wood Street	Up	186	
Woodbridge	Down	129	(53 in use)
Woodbridge	Up	142	(130 in use)
Woodgrange Park	Eastbound	165	
Woodgrange Park	Westbound	165	
Worstead	Single	79	
Wrabness	Down	82	
Wrabness	Up	85	
Wymondham	Down	118	
Wymondham	Up	92	

## 5.5 Timing Allowances

All allowances shown are in minutes.

Allowances apply at all times except where stated

All allowances are indicative for the Final Principle Rules and are subject to change.

No engineering allowance is to be added to Class 345s as a 5% allowance is included in the calculation of the SRTs.

E refers to engineering allowances

P refers to performance allowances

### EA 1010 LIVERPOOL STREET TO SEVEN KINGS

Up				Remarks
Approaching Bow Jn	E		1	EL trains. ( 2 for trains which run ML to Ilford/Stratford then EL)
Approaching Bow Jn	E		1	ML trains
Approaching Stratford	E		1	ML trains towards Bow Jn
Approaching Bow Jn or Channelsea Jn	E		1	For 'weaves' To be added to all schedules when trains are timed over a two-track railway (i.e. EL timings) See Engineering Access Statement for detailed timings
<b>Up (Sundays only)</b>				
Approaching Bow Jn	E		2	See Engineering Access Statement for detailed timings. The required allowance should be shown as adjustment time at individual TIPLOCs to account for the increase in running time when diverted to run EL.

### EA 1011 SEVEN KINGS TO IPSWICH

Down				Remarks
Approaching Gidea Park	E		1	EL trains
Approaching Shenfield	E		1	EL trains
Approaching Shenfield	E		1	ML trains
Approaching Shenfield London End Junction	E		1	Applies only to ML trains running to Platforms 4/5/6 at Shenfield and also Platform 4 if using 2250 points
Approaching Shenfield	E		1	For 'weaves' To be added to all schedules when trains are timed over a two-track railway (i.e. EL timings) See Engineering Access Statement for detailed timings
Approaching Witham	E		1	
Approaching Colchester	E		1	2 minutes applies to terminating services
Approaching Colchester	E		6	Bi-directional working. See Engineering Access Statement for detailed timings
Approaching Halifax Jn	E		1	2 minutes applies to services terminating at Ipswich
<b>Down (Sundays only)</b>				
Approaching Shenfield	E		*	* For trains timed to run ML. See Engineering Access Statement for detailed timings. The required allowance should be shown as adjustment time at individual TIPLOCs to account for the increase in running time when diverted to run EL.

### EA 1011 SEVEN KINGS TO IPSWICH

Up				Remarks
Approaching Colchester	E		1	
Approaching Witham	E		1	
Approaching Shenfield	E		1	
Approaching Shenfield	E		6	Bi-directional working. See Engineering Access Statement for detailed timings
Approaching Gidea Park	E		1	EL trains
Approaching Gidea Park	P		1	All ML trains arriving at Liverpool Street between 07:00 and 09:59 (SX except Bank Holidays)

### EA 1012 IPSWICH TO TROWSE JUNCTION

Down				Remarks
Approaching Trowse Jn	P		1	For trains starting from Ipswich
Approaching Trowse Jn	P		2	For trains starting between Liverpool Street and Colchester
Approaching Trowse Jn	E		2	
Up				Remarks
Approaching Europa Jn	E		1	

### EA 1050 SHENFIELD TO SOUTHEND VICTORIA

Down				Remarks
Approaching Wickford	E		1	
Approaching Southend Victoria	E		1	
Approaching Southend Victoria	E		4	For the use of SIMBIDS. Including (Sun) and (MO). See Engineering Access Statement for detailed timings
Up				Remarks
Approaching Wickford	E		1	Terminating trains only
Approaching Mountnessing Jn	E		1	
Approaching Mountnessing Jn	E		4	For the use of SIMBIDS. Including (Sun) and (MO). See Engineering Access Statement for detailed timings

### EA 1060 WICKFORD JUNCTION TO SOUTHMINSTER

Down				Remarks
Approaching Southminster	E		1	
Up				Remarks
Approaching Wickford	E		1	Terminating trains only

### EA 1070 WITHAM JUNCTION TO BRAINTREE

Down				Remarks
Approaching Braintree	E		1	
Up				Remarks
Approaching Witham	E		1	Terminating trains only

### EA 1090 COLCHESTER JUNCTION TO CLACTON

Down				Remarks
Approaching Thorpe-Le-Soken	E		1	
Approaching Clacton	E		1	
Up				Remarks
Approaching Thorpe Le Soken	E		1	Terminating trains only
Approaching Colchester	E		1	

### EA 1100 EAST GATE JUNCTION & HYTHE JUNCTION TO COLCHESTER TOWN

Down				Remarks
Approaching Colchester Town	E		1	Applies to services starting from beyond Colchester (Main Line)
Up				Remarks
Approaching Colchester Main Line Station	E		1	Applies to services starting from beyond Colchester Town

### EA 1110 THORPE-LE-SOKEN TO WALTON-ON-THE-NAZE

Down				Remarks
Approaching Thorpe-le-Soken	E		1	
Approaching Walton-on-the-Naze	E		1	For trains starting between Liverpool Street and Colchester
Up				Remarks
Approaching Thorpe-le-Soken	E		1	

### EA 1120 MANNINGTREE TO HARWICH TOWN

Down				Remarks
Approaching Harwich International/ Parkeston Yard	E		1	
Approaching Harwich International	E		10	Single Line Working. See Engineering Access Statement for detailed timings
Up				Remarks
Approaching Manningtree	E		1	Terminating trains only
Approaching Manningtree	E		10	Single Line Working. See Engineering Access Statement for detailed timings

### EA 1150 CHANNELSEA SOUTH JUNCTION TO STRATFORD CENTRAL JUNCTION

Up				Remarks
Approaching Stratford Central Jn West	E		2	

### EA 1160 BETHNAL GREEN EAST JUNCTION TO BISHOPS STORTFORD

Down				Remarks
Approaching Broxbourne	E		1	
Approaching Bishops Stortford	E		1	
Up				Remarks
Approaching Tottenham Hale	E		1	
Approaching Hackney Downs	E		1	For pathing purposes may instead be applied approaching Clapton Junction on route EA 1200
Approaching Hackney Downs	P		1	(via Southbury) Between 0700 and 1000 Mondays to Fridays only

### EA 1161 BISHOPS STORTFORD TO ELY NORTH JUNCTION

Down				Remarks
Approaching Shepreth Branch Jn	E		1	From Audley End direction
Approaching Ely Dock Junction	E		1	Applies to northbound trains terminating at Ely only
Up				Remarks
Approaching Stansted North Junction	E		1	Trains from Audley End and beyond only

### EA 1162 ELY NORTH JUNCTION TO KING'S LYNN

Down				Remarks
Approaching King's Lynn	E		1	
Up				Remarks
Approaching Ely North Jn	E		1	From Littleport direction

### EA 1200 CLAPTON JUNCTION TO CHINGFORD

Up				Remarks
Approaching Clapton Jn	P		1	All trains arriving at Liverpool Street between 07:00 and 10:00 (SX except Bank Holidays)
Approaching Clapton Junction	E		*	*Allowance usually applied approaching Hackney Downs on route EA 1160 may instead be applied approaching Clapton Junction. See EA 1160 for details

### EA 1210 BROXBORNE JUNCTION TO HERTFORD EAST

Down				Remarks
Approaching Hertford East	E		1	

### EA 1230 ROYSTON TO SHEPRETH BRANCH JUNCTION

Down				Remarks
Approaching Shepreth Branch Jn	E		1	

### EA 1280 STRATFORD CENTRAL JUNCTION TO COPPERMILL JUNCTION

Down				Remarks
Approaching Stratford Station	E		2	For passenger and ECS trains terminating at Stratford

### EA 1370 GOSPEL OAK TO BARKING TILBURY LINE JUNCTION WEST

Up				Remarks
Approaching Gospel Oak	E		1	

### EA 1390 BARKING TILBURY LINE JN EAST TO PITSEA JN (VIA TILBURY)

Down				Remarks
Approaching Pitsea	P		1	All trains from Thames Haven Jn
Up				Remarks
Approaching Ripple Lane Renwick Road	P		1	
Approaching Barking	P		1	All trains from Dagenham Dock.

### EA 1410 UPMINSTER TO WEST THURROCK JUNCTION

Down				Remarks
Approaching Ockendon	P		1	Terminating trains only
Up				Remarks
Approaching Upminster	P		1	All freight trains from Thames Haven Jn
Approaching Upminster	P		1	All trains off the Ockendon Branch

### EA 1430 EAST SUFFOLK JUNCTION TO OULTON BROAD NORTH JUNCTION

Down				Remarks
Approaching Saxmundham	E		1	
Approaching Lowestoft	E		1	
Approaching Oulton Broad North Jn	P		1	From Ipswich

### EA 1430 EAST SUFFOLK JUNCTION TO OULTON BROAD NORTH JUNCTION

Up					Remarks
Approaching Saxmundham	E		1		
Approaching Boss Hall Junction	E		1		

### EA 1440 WESTERFIELD JUNCTION TO FELIXSTOWE TOWN

Down					Remarks
Approaching Felixstowe Town	E		1		

### EA 1450 TRIMLEY TO FELIXSTOWE NORTH QUAY FREIGHTLINER TERMINAL

Down					Remarks
Approaching Felixstowe North	E		2		

### EA 1460 FELIXSTOWE BEACH JUNCTION TO FELIXSTOWE BEACH

Down					Remarks
Approaching Felixstowe Beach	E		2		

### EA 1470 NORWICH THORPE JUNCTION TO LOWESTOFT

Down					Remarks
Approaching Coke Ovens Junction	E		1		From Ipswich or Norwich
Approaching Oulton Broad North	P				From Ipswich. Train operator to specify performance time
Up					Remarks
Approaching Norwich Thorpe Junction	E		1		From Lowestoft, Yarmouth and Sheringham

### EA 1490 CROMER TO SHERINGHAM

Down					Remarks
Approaching Sheringham	E		1		
Approaching Sheringham	P				Train operator to specify performance time

### EA 1500 BRUNDALL JUNCTION TO YARMOUTH

Down					Remarks
Approaching Yarmouth	E		1		

### EA 1510 REEDHAM JUNCTION TO YARMOUTH

Down					Remarks
Approaching Yarmouth	E		1		

### EA 1530 COLDHAM LANE JUNCTION TO HAUGHLEY JUNCTION

Down (Eastbound)					Remarks
Approaching Bury St Edmunds	E		1		
Up (Westbound)					Remarks
Approaching Bury St Edmunds	E		1		
Approaching Chippenham Jn	P		1		
Approaching Coldham Lane Jn	E		1		

### EA 1540 CHIPPENHAM JUNCTION TO ELY DOCK JUNCTION

Down (Westbound)					Remarks
Approaching Ely Dock Jn	E		1		Applies to all services



### EA 1560 ELY NORTH JUNCTION TO KINGS DYKE (INCLUSIVE)

Down (Westbound)					Remarks
Approaching Peterborough East Junction	E		2		
Up (Eastbound)					Remarks
Approaching Ely North Junction	E		2		

### EA 1580 ELY NORTH JUNCTION TO TROWSE JUNCTION

Down					Remarks
Approaching Trowse <del>Lower</del> Jn	E		1		From Thetford direction
Up					Remarks
Approaching Ely North Jn	E		1		From Thetford direction

## 6. Timetabling Considerations

### 6.1 Advertised and Working Times

It is not permissible for trains to be specified to be advertised to arrive before or depart after the booked times stated in the working timetable (WTT).

It is permissible for trains to be specified to be advertised to depart before the booked times stated in the working timetable in the following circumstances;

- (i) Where the WTT departure time is delayed to achieve the required headway behind a preceding train or margin following a conflicting move.
- (ii) As an aid to punctual departure where this practice has been agreed between the Train Operator and Network Rail.

By agreement between the Train Operator and Network Rail, trains may be specified to be advertised to arrive after the booked times stated in the WTT. This agreement is used instead of engineering/performance allowances.

### 6.2 Timing of Light Locomotives

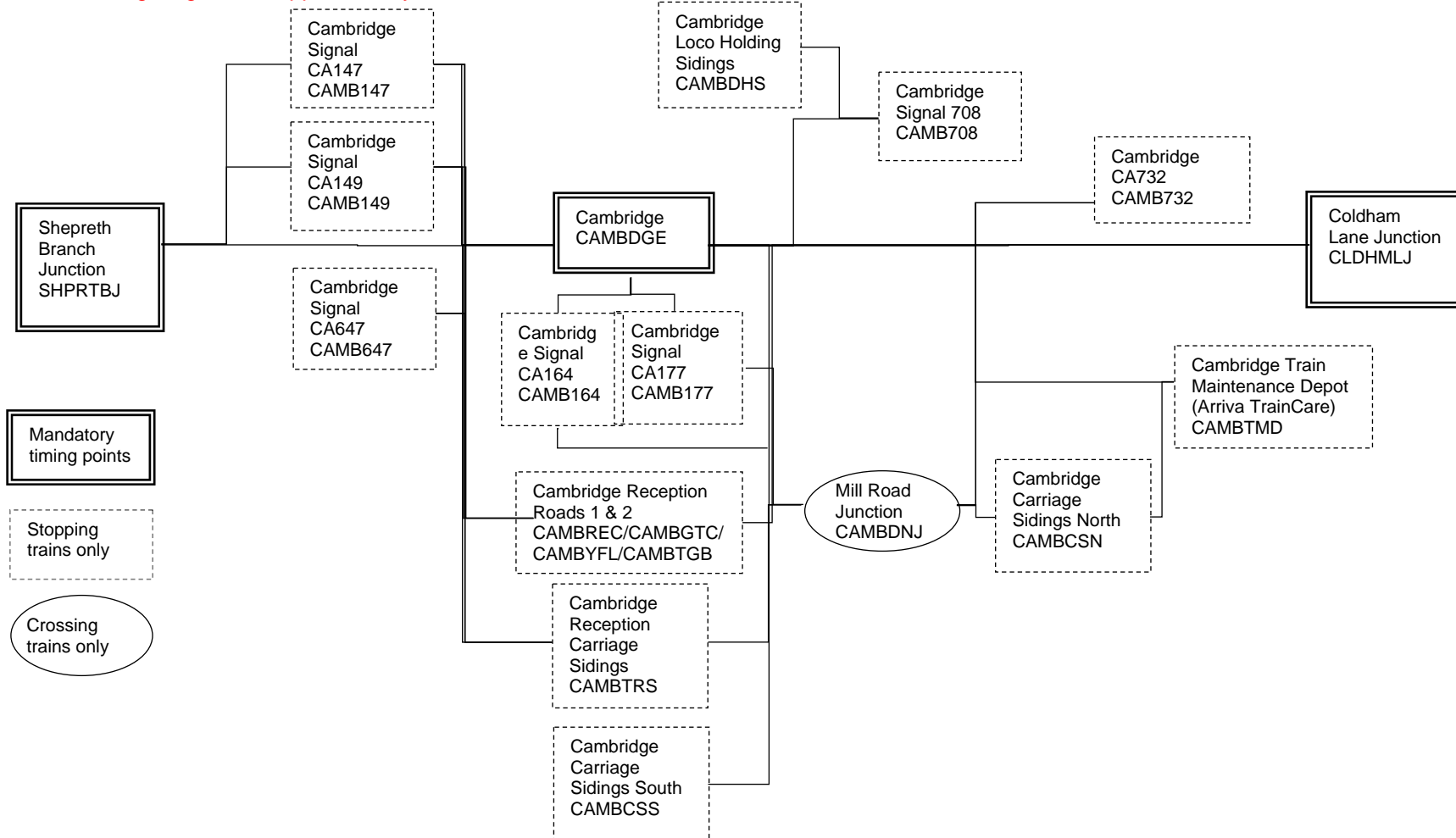
It is a general principle that all light locomotive movements will be timed. Any exceptions to this must be agreed by the appropriate Operational Planning Specialist.

### 6.3 Two–Track Timetable Railway

See Engineering Access Statement EA1010 & EA1011 Section 4 – Standard Possession Opportunities for details.

## Appendix A Timing Point Diagrams

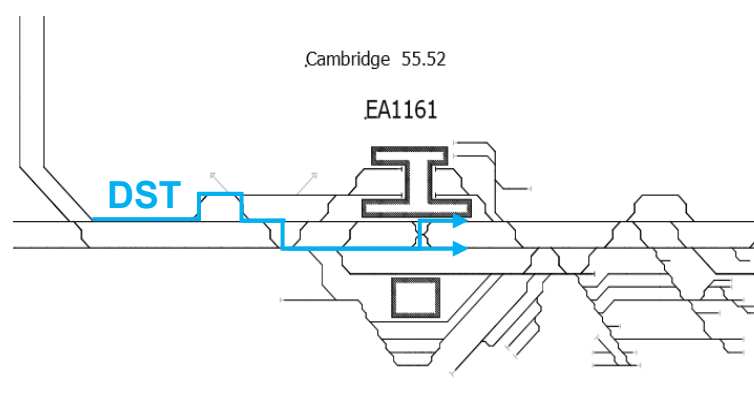
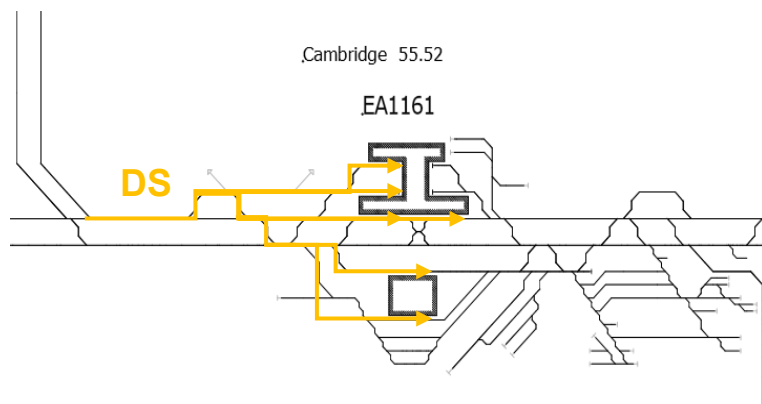
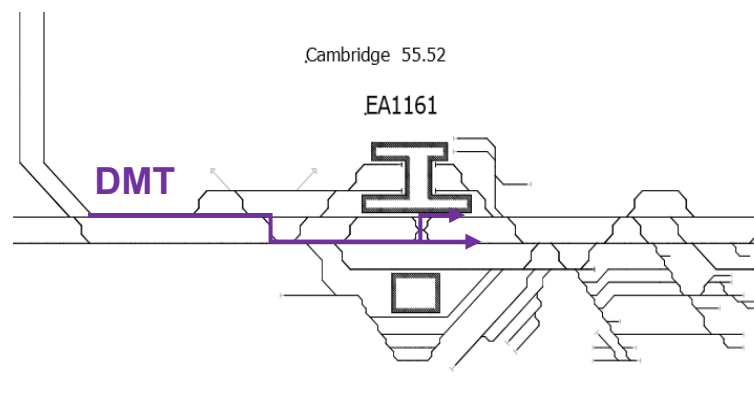
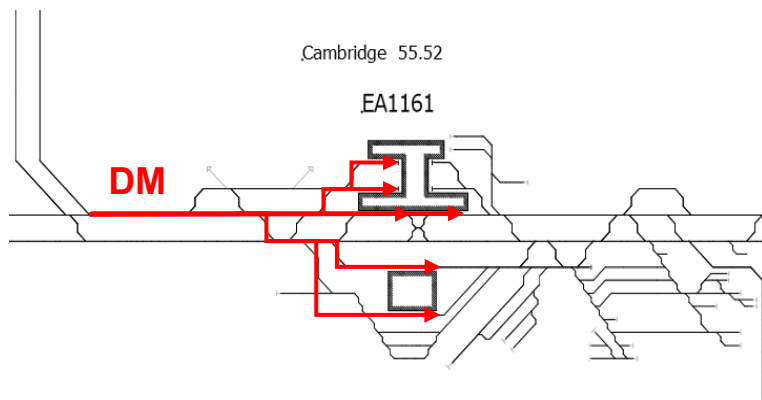
The following diagram is supplementary to the information shown in section 2.1.



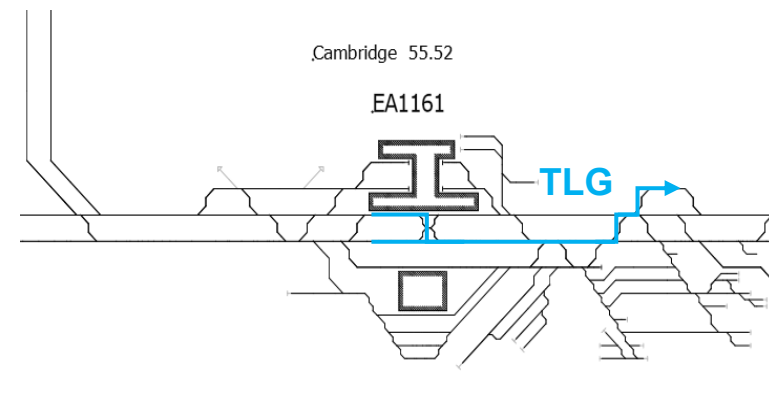
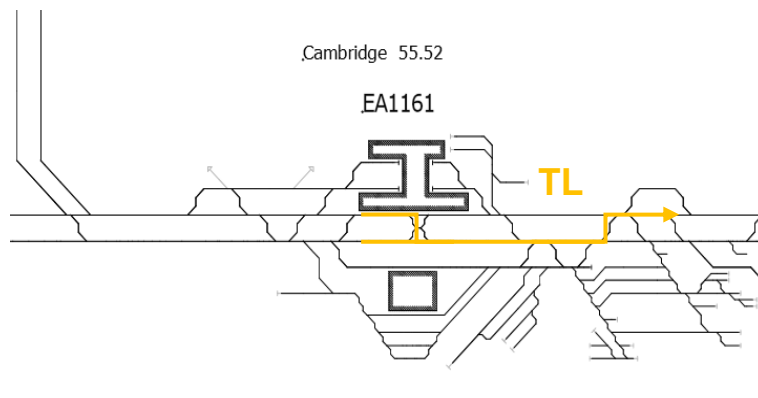
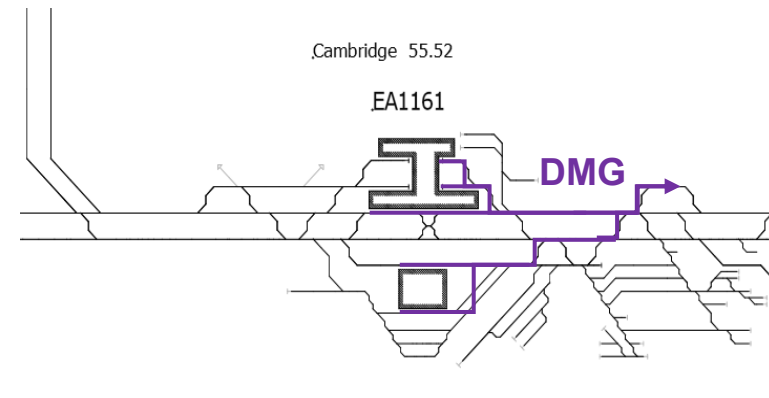
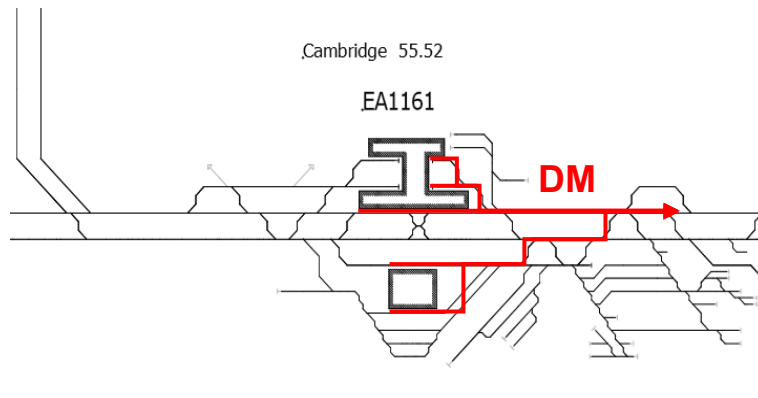
## Appendix B Route Code Diagrams

The following diagrams are supplementary to the information shown in section 2.1.

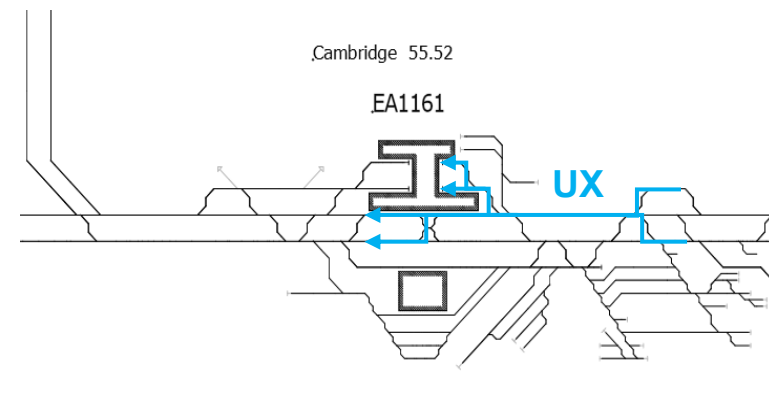
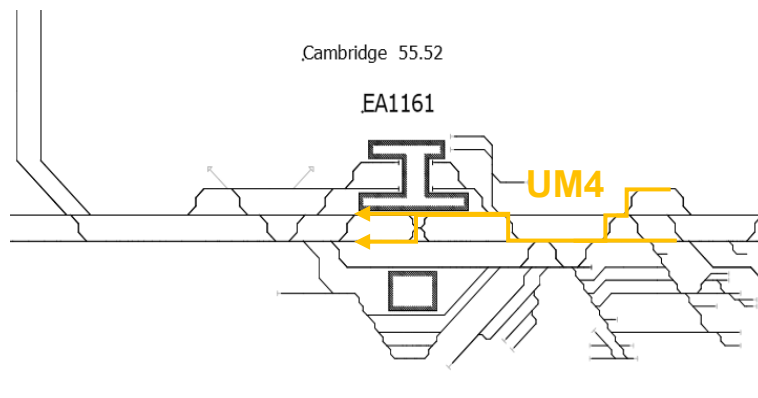
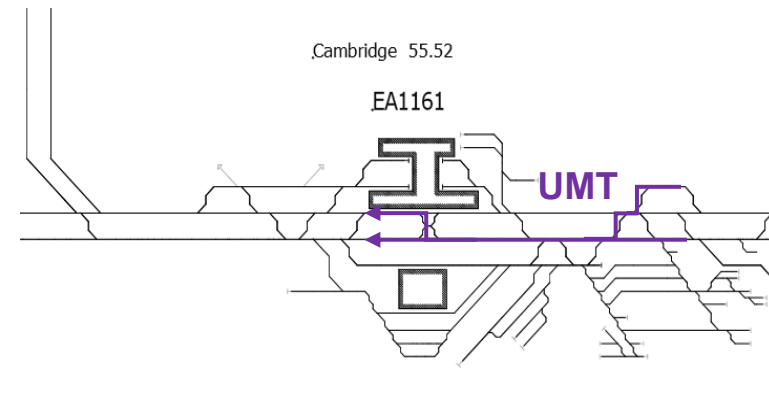
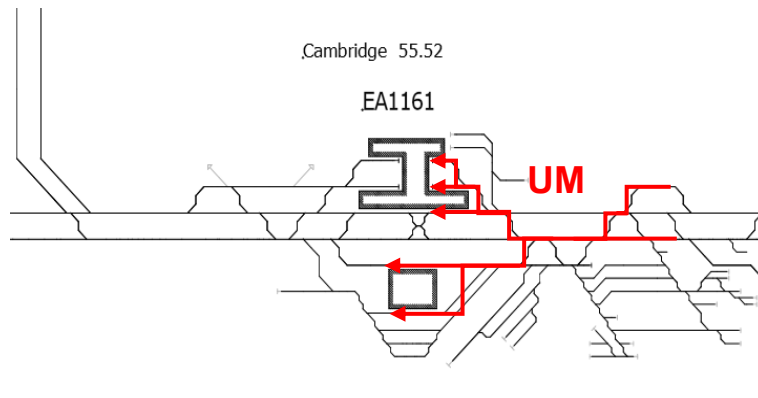
Down direction route codes to Cambridge



Down direction route codes from Cambridge



Up direction route codes to Cambridge



Up direction route codes from Cambridge

