

## CONTRACT SPECIFICATION

Tenders are requested for the following contract to operate a bus service.

<b>Contract Reference</b>	QC37701
<b>Route Number</b>	20
<b>Terminus Points</b>	Walthamstow Central Station to Debden Station
<b>Contract Basis</b>	Incentivised
<b>Commencement Date</b>	24 <sup>th</sup> March 2012
<b>Vehicle Type</b>	87 capacity, dual door, double deck vehicles
<b>Maximum Approved Dimensions</b>	10.2 metres long and 2.55 metres wide
<b>Advertising Rights</b>	Operator
<b>Sponsored Route</b>	No
<b>Minimum Performance Std</b>	Departing on Time - No less than 78.00%
<b>Extension Threshold</b>	Departing on Time Threshold - 82.00%
<b>Minimum Operated Mileage</b>	No less than 98.00%

Tender Return Date: No later than 12 o'clock on 21<sup>st</sup> March 2011

## **SERVICE SPECIFICATION**

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## 1) NOTES

### **Proposed Changes:**

At this time, no changes are proposed to the existing service for introduction prior to the commencement of the new Route Agreement for Route No. 20.

Tenderers should note that the following alterations (subject to consultation) are proposed as part of this Service Specification for introduction with the new Route Agreement:

- 87 capacity, dual door, double deck vehicles are specified subject to a satisfactory route test.

### **Requirements for Registration:**

The section of Route No. 20 between Debden Station and the Essex County Boundary at High Road / Knighton Lane will need to be registered with the Traffic Commissioner for the Eastern Traffic Area 56 days before the operation commences. The registration should be sent to:

Eastern Traffic Area Office  
Hillcrest House  
386 Harehills Lane  
LEEDS  
LS9 6NF

Copies of the registration should be sent to:

Essex County Council  
Environment Sustainability and Highways  
County Hall  
Chelmsford, Essex  
CM1 1QH  
e-mail: xxxxxxxxxxxxxxxxxxxx@xxxxx.xxx.xx

and to:

Barry Skinner (Licensing Manager),  
TfL Surface Transport  
11<sup>th</sup> Floor, Zone G4  
Palestra  
197 Blackfriars Road  
London  
SE1 8NJ  
e-mail: xxxxx.xxxxxxx@xxx.xxx.xx

The cost of this and any future variation to this registration are to be met by the Operator.

## 2) SCHEDULE REQUIREMENTS & PINCHPOINTS

### 2.1) MONDAY TO FRIDAY SCHEDULE REQUIREMENTS & PINCHPOINTS

Walthamstow Central Station to Debden Station			Debden Station to Walthamstow Central Station		
First departure no later than 0610.			First departure no later than 0520.		
0605 - 0645	Every 20 minutes		0515 - 0550	Every 30 minutes	
0646 - 1925	Every 15 minutes		0551 - 1835	Every 15 minutes	
1926 - 2045	Every 20 minutes		1836 - 1955	Every 20 minutes	
2046 - 0020	Every 30 minutes		1956 - 2330	Every 30 minutes	
Last departure no earlier than 0015.			Last departure no earlier than 2325.		
<b>Pinchpoints</b>					
Loughton, Homebase	0715 - 0915	15 minutes	Whipps Cross Roundabout	0720 - 0920	15 minutes
	1500 - 1630	15 minutes		1510 - 1625	15 minutes

### 2.2) MONDAY TO FRIDAY SCHOOLDAYS SCHEDULE REQUIREMENTS

Walthamstow Central Station to Debden Station		Debden Station to Walthamstow Central Station	
0730	One journey	1550	One journey

The journeys shown in Section 2.2 are specifically designed to meet the start and finish times of St Aubyn's and Bancrofts schools in the Buckhurst Hill and Woodford Green areas.

### 2.3) SATURDAY AND GOOD FRIDAY SCHEDULE REQUIREMENTS & PINCHPOINTS

Walthamstow Central Station to Debden Station			Debden Station to Walthamstow Central Station		
First departure no later than 0610.			First departure no later than 0520.		
0605 - 0830	Every 20 minutes		0515 - 0550	Every 30 minutes	
0831 - 1925	Every 15 minutes		0551 - 0810	Every 20 minutes	
1926 - 1945	Every 20 minutes		0811 - 1835	Every 15 minutes	
1946 - 0020	Every 30 minutes		1836 - 1955	Every 20 minutes	
			1956 - 2330	Every 30 minutes	
Last departure no earlier than 0015.			Last departure no earlier than 2325.		
<b>Pinchpoints</b>					
Loughton, Homebase	0915 - 1100	15 minutes	Whipps Cross Roundabout	0910 - 1055	15 minutes

### 2.4) SUNDAY AND PUBLIC HOLIDAY SCHEDULE REQUIREMENTS & PINCHPOINTS

Walthamstow Central Station to Debden Station			Debden Station to Walthamstow Central Station		
First departure no later than 0715.			First departure no later than 0625.		
0710 - 0020	Every 30 minutes		0620 - 2330	Every 30 minutes	
Last departure no earlier than 0015.			Last departure no earlier than 2325.		
<b>Pinchpoints</b>					
Loughton, Homebase	1050 - 1150	30 minutes	Whipps Cross Roundabout	1020 - 1150	30 minutes

## 2.5) BOXING DAY SCHEDULE REQUIREMENTS & PINCHPOINTS

Walthamstow Central Station to Debden Station		Debden Station to Walthamstow Central Station	
First departure no later than 0815.		First departure no later than 0755.	
0810 - 0020	Every 30 minutes	070 - 2330	Every 30 minutes
Last departure no earlier than 0015.		Last departure no earlier than 2325.	
<b>Pinchpoints</b>			
Loughton, Homebase	1050 - 1150	30 minutes	Whipps Cross Roundabout
			1020 - 1150
			30 minutes

## 3) QSI POINTS & MILEAGE

It is intended Route No. 20 will have 96 surveys per quarter at the following locations:

<b>QSI POINTS</b>	
<b>Towards Debden</b>	<b>Towards Walthamstow</b>
Walthamstow Central	Loughton Station \$
Woodford Green \$	Woodford Green \$
Loughton Station \$	Whipps Cross
<b>MILEAGE: See Attached iBus Sheets</b>	

\$ This location observed simultaneously in both directions - counted as two surveys.

## 4) OPERATIONAL CONSIDERATIONS

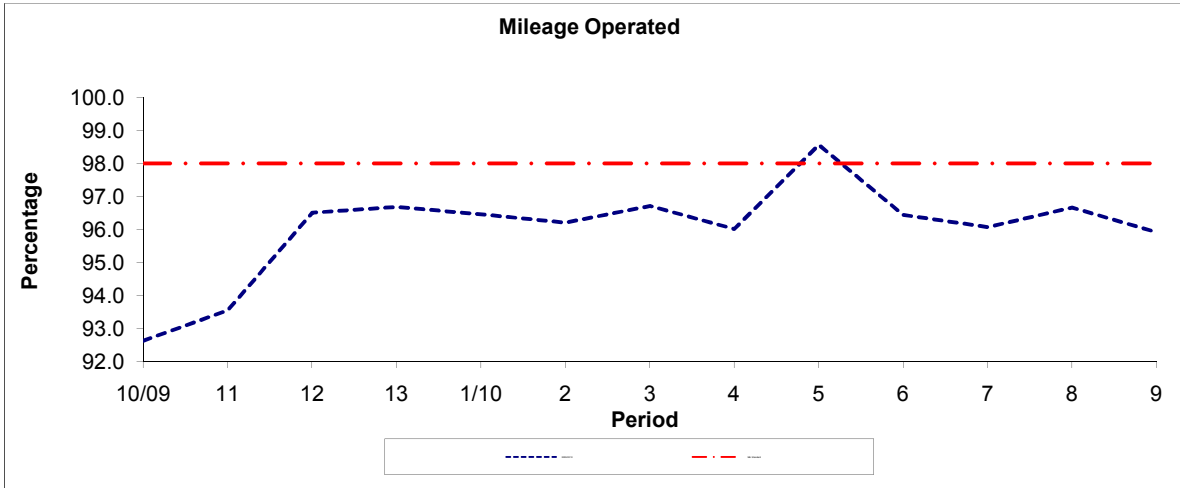
- 4.1) Route No. 20 can suffer unpredictable traffic delays in the Woodford Green area.
- 4.2) The 2012 Olympic Games open on Friday 27<sup>th</sup> July and close on Sunday 12<sup>th</sup> August. The 2012 Paralympic Games start on Wednesday 29<sup>th</sup> August and close on Sunday 9<sup>th</sup> September. The Games will result in additional passenger demand across the network, requiring additional capacity on some routes. There will also be a number of road closures in the event areas resulting in route diversions. Operators should be aware there will be implications to them during this time. Full details and any extra resource required will be negotiated with the operator at a later date.

## 5) CURRENT PERFORMANCE, ROUTE RECORD & IBUS MILEAGE

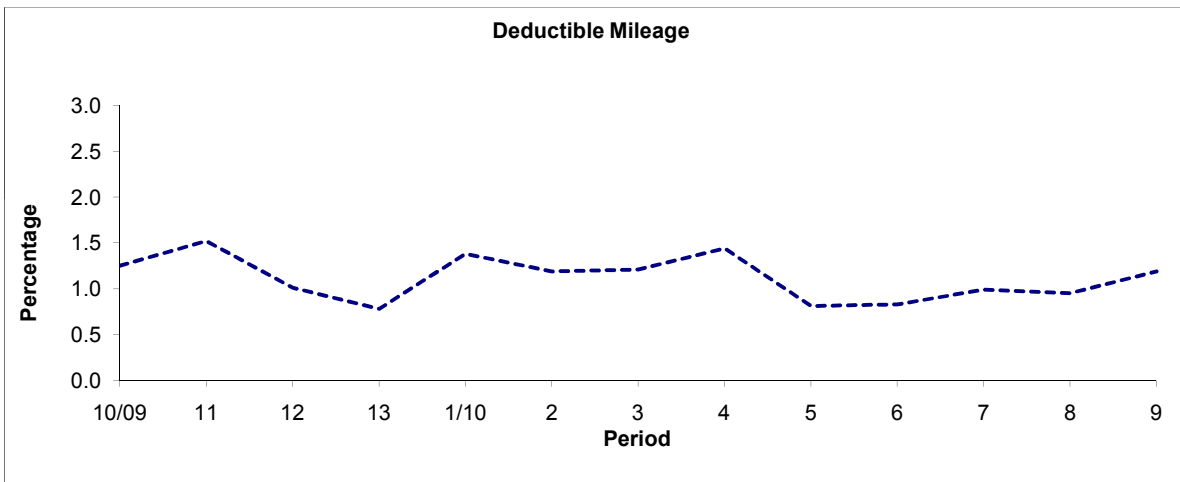
- 5.1) CURRENT PERFORMANCE  
As per current print out.
- 5.2) ROUTE RECORD  
As per Busnet Printout.
- 5.3) IBUS MILEAGE  
As per current print out.

**PART B - PERFORMANCE STATISTICS**

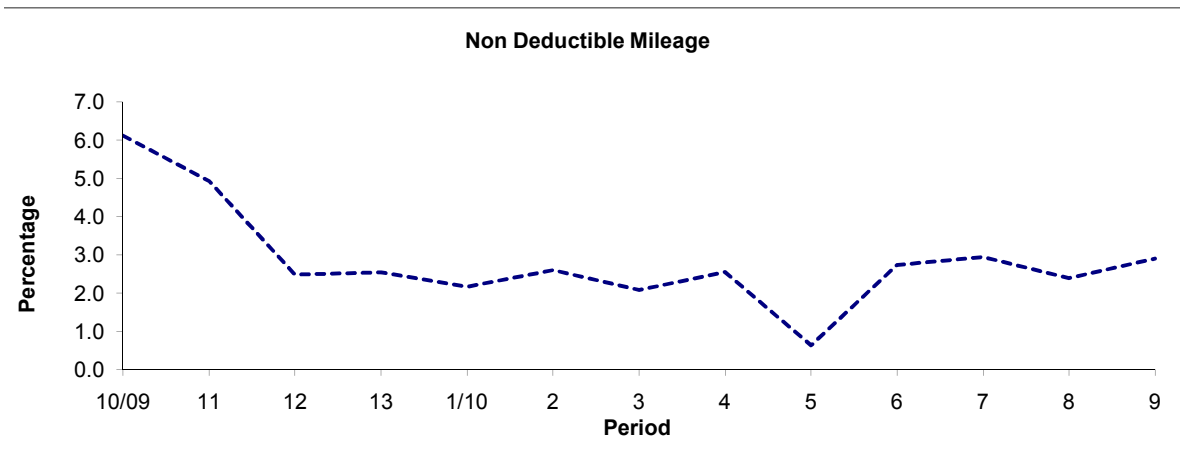
**Route 20**



Period	10/09	11	12	13	1/10	2	3	4	5	6	7	8	9
2009/2010	92.63	93.55	96.51	96.68	96.46	96.21	96.71	96.01	98.56	96.44	96.07	96.66	95.91
Min Standard	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00



Period	10/09	11	12	13	1/10	2	3	4	5	6	7	8	9
2009/2010	1.25	1.52	1.01	0.78	1.38	1.19	1.21	1.44	0.81	0.83	0.99	0.95	1.19

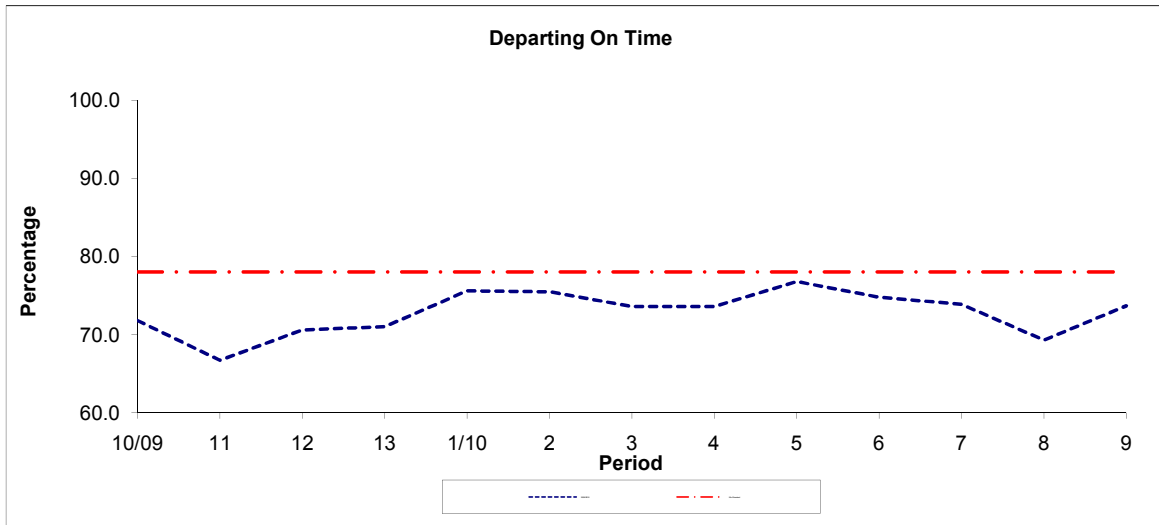


Period	10/09	11	12	13	1/10	2	3	4	5	6	7	8	9
2009/2010	6.12	4.93	2.48	2.54	2.16	2.60	2.08	2.55	0.63	2.73	2.94	2.39	2.90

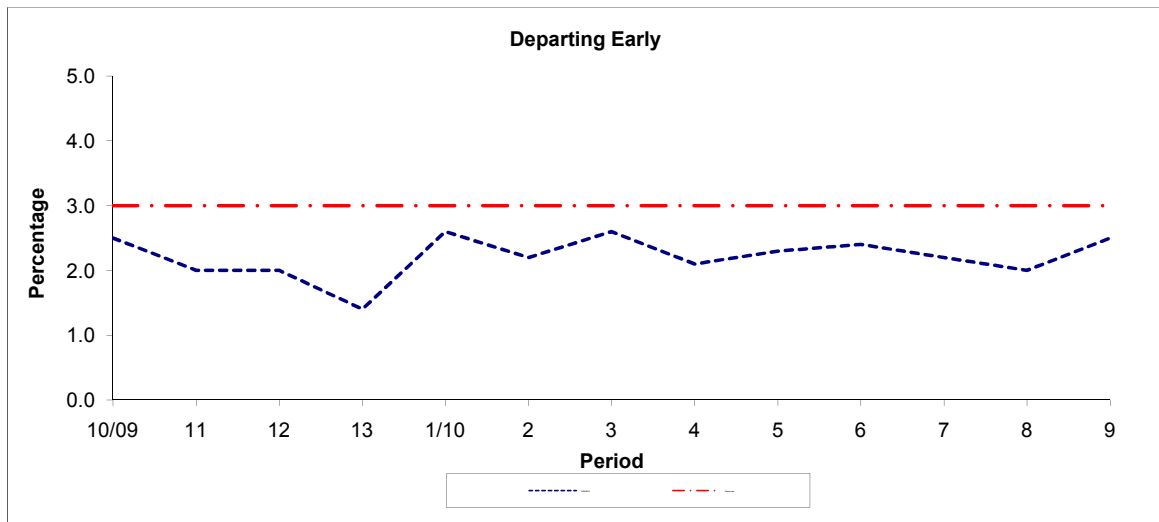
**Note :** Mileage is based on 4 weeks data

**PART B - PERFORMANCE STATISTICS**

**Route 20**



Period	10/09	11	12	13	1/10	2	3	4	5	6	7	8	9
2009/2010	71.80	66.70	70.60	71.00	75.60	75.50	73.60	73.60	76.80	74.80	73.90	69.30	73.70
Min Standard	78.00	78.00	78.00	78.00	78.00	78.00	78.00	78.00	78.00	78.00	78.00	78.00	78.00



Period	10/09	11	12	13	1/10	2	3	4	5	6	7	8	9
2009/2010	2.50	2.00	2.00	1.40	2.60	2.20	2.60	2.10	2.30	2.40	2.20	2.00	2.50
Benchmark	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00

**Note :** Reliability is based on 12 weeks rolling data

# LONDON BUSES - ROUTE DESCRIPTION

## ROUTE 20: Walthamstow Central Station - Debden Station

**Date of Structural Change:** 3 March 2012.

**Date of Service Change:** 3 March 2012.

**Reason for Issue:** New Tender.

### **STREETS TRAVERSED**

**Towards Debden Station:** Walthamstow Central Bus Station, Selborne Road, Hoe Street, Lea Bridge Road, Whipps Cross, Whipps Cross Roundabout, Lea Bridge Road, Woodford New Road, Waterworks Corner, Woodford New Road, Woodford Green High Road, Buckhurst Hill High Road, Loughton High Road, Old Station Road, Loughton Station Forecourt, Old Station Road, Loughton High Road, Church Hill, Rectory Lane, Hillyfields, Chester Road, Willingale Road, Colebrook Lane, Jessel Drive, Burney Drive, Westall Road, Etheridge Road, Willingale Road, The Broadway, Burton Road.

**Towards Walthamstow Central Station:** Torrington Drive, The Broadway, Willingale Road, Etheridge Road, Westall Road, Burney Drive, Jessel Drive, Castell Road, Chester Road, Hillyfields, Rectory Lane, Church Hill, Loughton High Road, Old Station Road, Loughton Station Forecourt, Old Station Road, Loughton High Road, Buckhurst Hill High Road, Woodford Green High Road, Woodford New Road, Waterworks Corner, Woodford New Road, Lea Bridge Road, Whipps Cross Roundabout, Whipps Cross, Lea Bridge Road, Leyton Green Road, High Road Leyton, Hoe Street, Selborne Road, Walthamstow Central Bus Station.



## STANDING AND TURNING POINTS

### WALTHAMSTOW CENTRAL STATION

Private stand for 13 buses in marked bays on east side of Walthamstow Central Bus Station on north side of Selborne Road. Overflow offside stand for 1 bus on west side of bus station in lay-by opposite Stop A.

Buses proceed from Walthamstow Central Bus Station direct to stand, departing to Walthamstow Central Bus Station. Set down in Walthamstow Central Bus Station, at Alighting Point and pick up in Walthamstow Central Bus Station, at Stop B.

AVAILABILITY:	At any time.
OPERATING RESTRICTIONS:	No more than 2 buses on Route 20 should be scheduled to stand at any one time.
MEAL RELIEFS:	No meal relief vehicles to stand at any time.
FERRY VEHICLES:	No ferry vehicles to park on stand at any time.
DISPLAY:	Walthamstow Central.
OTHER INFORMATION:	Council toilet facilities available 24 hours a day.

### LEYTON, BAKERS ARMS (from DEBDEN STATION)

Buses proceed from Leyton Green Road via Capworth Street and Dunton Road departing to Lea Bridge Road. Set down in Leyton Green Road, at Stop WK and pick up in Lea Bridge Road, at Stop EH.

AVAILABILITY:	At any time.
OPERATING RESTRICTIONS:	<b>Turning Point Only - Buses must not stand</b>
DISPLAY:	Leyton, Bakers Arms.

### WHIPPS CROSS ROUNDABOUT (from DEBDEN STATION)

Buses proceed from Whipps Cross Roundabout departing to Lea Bridge Road. Set down in Whipps Cross Roundabout, at Stop C and pick up in Lea Bridge Road.

AVAILABILITY:	At any time.
OPERATING RESTRICTIONS:	<b>Turning Point Only - Buses must not stand</b>
DISPLAY:	Whipps Cross.

## **WOODFORD GREEN, BROOMHILL ROAD**

### From Debden Station.

Buses proceed from Woodford Green High Road via The Terrace, Broomhill Road and Johnston Road departing to Woodford Green High Road. Set down in Woodford Green High Road, at Stop S and pick up in Woodford Green High Road, at Stop B.

### From Walthamstow Central Station.

Buses proceed from Woodford Green High Road via The Terrace, Broomhill Road, Johnston Road, Woodford Green High Road and Woodford New Road departing to Woodford Green High Road. Set down in Woodford Green High Road, at Stop B and pick up in Woodford Green High Road, at Stop S.

AVAILABILITY: At any time.  
OPERATING RESTRICTIONS: **Turning Point Only - Buses must not stand**  
DISPLAY: Woodford Green.

## **WOODFORD WELLS, HORSE & WELL (from Walthamstow Central Station)**

Public stand for two buses facing north on west side of slip road, on east side of Woodford Green High Road, opposite the Horse and Well public house, commencing opposite the centre line of Knighton Drive (southern arm) and extending 29 metres south.

Buses proceed from Woodford Green High Road via Slip Road, Woodford Green High Road and Horse & Well Forecourt to stand, departing via Horse & Well Forecourt to Woodford Green High Road. Set down in Woodford Green High Road, at Stop FH and pick up in Woodford Green High Road, at Stop FS.

AVAILABILITY: At any time.  
OPERATING RESTRICTIONS: Unscheduled curtailments only.  
MEAL RELIEFS: No meal relief vehicles to stand at any time.  
FERRY VEHICLES: No ferry vehicles to park on stand at any time.  
DISPLAY: Woodford Wells.

## **LOUGHTON STATION**

Private (offside) stand for three buses in west side of approach road on Loughton LUL Station forecourt.

### From Debden Station.

Buses proceed from Loughton Station Forecourt direct to stand, departing to Loughton Station Forecourt. Set down in Loughton Station Forecourt, at Stop C and pick up in Loughton Station Forecourt, at Stop A.

### From Walthamstow Central Station.

Buses proceed from Loughton Station Forecourt direct to stand, departing to Loughton Station Forecourt. Set down in Loughton Station Forecourt, at Stop A and pick up in Loughton Station Forecourt, at Stop C.

AVAILABILITY:	At any time.
OPERATING RESTRICTIONS:	Unscheduled curtailments only
MEAL RELIEFS:	No meal relief vehicles to stand at any time.
FERRY VEHICLES:	No ferry vehicles to park on stand at any time.
DISPLAY:	Loughton.

## **DEBDEN, BURTON ROAD, EAST STAND**

Public stand for two buses on route 20 on south side of Burton Road, opposite public car park, commencing at the driveway to Epping Forest District Council building and extending 27 metres east.

Buses proceed from Burton Road direct to stand, departing via Burton Road to Torrington Drive. Set down on stand and pick up in Torrington Drive, at Alighting Point.

AVAILABILITY:	At any time.
OPERATING RESTRICTIONS:	No more than 2 buses on Route 20 should be scheduled to stand at any one time.
MEAL RELIEFS:	No meal relief vehicles to stand at any time.
FERRY VEHICLES:	No ferry vehicles to park on stand at any time.
DISPLAY:	Debden.

## Transport for London - Live Mileage List

Route 20

Service change 23196

Date 2 November 2009

OUT DIRECTION				
Timing Point Code	Stop Number	Stop Name	Metres	Miles
WSTCSN S	WSTCSN S	Walthamstow Central Bus Station		
WSTCSN	BP4271	Walthamstow Bus Station	0	0.00
	11481	Grosvenor Park Road	628	0.39
	7962	Grove Road	228	0.14
	7964	Bakers Avenue	210	0.13
LEYTBAE	10468	Lea Bridge Road / Bakers Arms	280	0.17
	14265	Leyton Green Road	286	0.18
	14267	Shernhall Street	191	0.12
	14269	Peterborough Road	244	0.15
WHPCLB	14271	Whipps Cross / Wood Street	216	0.13
	14275	Hainault Court	407	0.25
	14277	Oakhurst Gardens	400	0.25
	14281	St Peters Church	245	0.15
	14287	Forest Road	606	0.38
	2932	Waterworks Corner	494	0.31
	2934	Chelmsford Road	251	0.16
	17849	Oak Hill	196	0.12
	17951	St Aubyn's School	248	0.15
	15336	Chingford Lane	478	0.30
WDFGCA	4363	Woodford Green / Broadmead Road	304	0.19
	15333	Monkhams Lane	511	0.32
	15329	St.Thomas Of Canterbury Church	286	0.18
	15541	Whitehall Road / Bancrofts School	386	0.24
	15540	Knighton Lane	571	0.35
	BP4723	Bald Faced Stag	212	0.13
	BP4724	Russell Road	304	0.19
	BP4725	Cricket Ground	432	0.27
	BP4832	North Farm	841	0.52
	BP4726	Spring Grove	435	0.27
	BP4931	Upper Park	302	0.19
	BP4727	The Crown	343	0.21
LGTNSN	BP4834	Loughton Station	300	0.19
	BP4728	Sainsbury's	215	0.13
	BP4829	The Crown	219	0.14
	BP4729	Forest Road	229	0.14
	BP4730	Traps Hill	324	0.20
	BP4731	The Uplands	297	0.18
	BP4732	Church Close	487	0.30
LGTNHB	BP4733	Homebase	231	0.14
	BP4734	Maple Gate	153	0.10
	BP4735	Hillyfields	222	0.14
	BP4736	Hillcroft	188	0.12
	BP4737	Pyrles Lane	228	0.14
	BP4738	Chandler Road	184	0.11
DEBNCR	BP4739	Castell Road	341	0.21
	BP4740	Davenant School	252	0.16
	BP4741	Colebrook Lane	436	0.27
	BP4742	The Cottage Loaf	239	0.15
	BP4743	Goldingham Avenue	258	0.16
	BP4744	Mannock Drive	269	0.17
	BP4745	Etheridge Road	307	0.19
	BP4746	Vere Road	392	0.24
DEBNSN	BP5345	Burton Road	268	0.17
DEBNBR S	DEBNBR S	Debden, Burton Road	0	0.00
<b>TOTAL ROUTE MILEAGE - OUT DIRECTION</b>			16574	10.30
			metres	miles

BACK DIRECTION				
Timing Point Code	Stop Number	Stop Name	Metres	Miles
DEBNBR S	DEBNBR S	Debden, Burton Road		
DEBNSN	BP4747	Broadway	0	0.00
	BP4748	Torrington Drive	54	0.03
	BP4749	The Broadway	207	0.13
	BP4750	Etheridge Road	530	0.33
	BP4751	Mannock Drive	355	0.22
	BP4752	Goldingham Avenue	237	0.15
	BP4753	The Cottage Loaf	249	0.15
	BP4754	Colebrook Lane	225	0.14
DEBNCR	BP4755	Castell Road	228	0.14
	BP4756	Chandler Road	209	0.13
	BP4757	Pyrles Lane	191	0.12
	BP4762	Hillcroft	346	0.21
	BP4763	Hillyfields	167	0.10
	BP4764	Maple Gate	170	0.11
LGTNHB	BP4765	Homebase	131	0.08
	BP4766	Church Lane	363	0.23
	BP4767	The Uplands	367	0.23
	BP4768	Traps Hill	254	0.16
	BP4769	Forest Road	325	0.20
	BP4727	The Crown	370	0.23
LGTNSN	BP4835	Loughton Station	277	0.17
	BP4728	Sainsbury's	238	0.15
	BP4828	The Crown	227	0.14
	BP4830	The Crescent	358	0.22
	BP4770	Spring Grove	249	0.15
	BP4833	North Farm	428	0.27
	BP4771	Cricket Ground	724	0.45
	BP4772	Russell Road	348	0.22
	BP4773	Bald Faced Stag	363	0.23
	15539	Knighton Lane	396	0.25
	36693	Whitehall Road / Bancrofts School	427	0.27
	15330	St.Thomas Of Canterbury Church	406	0.25
	15332	Monkhams Lane	381	0.24
WDFGCA	15334	Woodford Green / Broadmead Road	402	0.25
	R0477	Chingford Lane	297	0.18
	17950	St Aubyn's School	585	0.36
	17949	Chelmsford Road	390	0.24
	2933	Waterworks Corner	293	0.18
	34478	Forest Road	467	0.29
	14282	St Peters Church	662	0.41
	14278	Snaresbrook Road	413	0.26
	14276	Hainault Court	192	0.12
WHPCRA	14274	Whipps Cross Roundabout	328	0.20
	14272	Whipps Cross / Wood Street	203	0.13
	14270	Peterborough Road	269	0.17
	14266	Essex Road	217	0.13
	34357	Leyton Green Road	227	0.14
LEYTBAL	7968	Lea Bridge Road / Bakers Arms	535	0.33
	7966	Hoe Street / Bakers Arms	213	0.13
	7963	Grove Road	310	0.19
	7960	Queen's Road	308	0.19
	R0036	Walthamstow Central Station	361	0.22
WSTCSN	BP4267	Walthamstow Bus Station	96	0.06
WSTCSN S	WSTCSN S	Walthamstow Central Bus Station	0	0.00
<b>TOTAL ROUTE MILEAGE - BACK DIRECTION</b>			16568	10.29
			metres	miles

## 7. Service Specification

Route: 20

Contract Reference: QC63501

This Service Specification forms section 7 of the ITT and should be read in conjunction with the ITT document, Version 1 dated 29 September 2011.

You are formally invited to tender for the provision of the bus service detailed below and in accordance with this Service Specification. Tenderers must ensure that a Compliant Tender is submitted and this will only be considered for evaluation if all parts of the Tender documents, as set out in section 11, have been received by the Corporation by the Date of Tender. The Tender must be fully completed in the required format, in accordance with the Instructions to Tenderers. A Compliant Tender must comply fully with the requirements of the Framework Agreement; adhere to the requirements of the Service Specification; and reflect the price of operating the Services with new vehicles.

<b>Terminus Points</b>	Walthamstow Central Station and Debden Station
<b>Contract Basis</b>	Incentivised
<b>Commencement Date</b>	23 <sup>rd</sup> March 2019
<b>Vehicle Type</b>	87 capacity, dual door, double deck vehicles
<b>Current Maximum Approved Dimensions</b>	10.2 metres long and 2.55 metres wide
<b>New Vehicles Mandatory</b>	Yes
<b>Hybrid Price Required</b>	Yes
<b>Sponsored Route</b>	No
<b>Advertising Rights</b>	Operator
<b>Minimum Performance Standard</b>	Departing on Time - No less than 78.00%
<b>Extension Threshold</b>	Departing on Time Threshold - 81.00%
<b>Minimum Operated Mileage Standard</b>	No less than 98.00%

The Date of Tender for this ITT is:

No later than 12 Noon on Tuesday 29<sup>th</sup> May 2018

*Tenderers should refer to section 3 of Part A for the Service Specification Explanatory Notes and Appendix B of section 5 for the Example Service Specification of the ITT document.*

## **SERVICE SPECIFICATION**

- 1) SERVICE SPEC - ROUTE SPECIFICATION INFORMATION
- 2) NOTES
- 3) SCHEDULE REQUIREMENTS & PINCHPOINTS
- 4) OPERATIONAL CONSIDERATIONS
- 5) ROUTE RECORD, CURRENT PERFORMANCE, QSI BY TIME OF DAY, IBUS MILEAGE & QSI POINTS

## 2) NOTES

### **Proposed Changes:**

At this time, the Corporation expects to implement a change to the existing service prior to the commencement of the new Route Agreement for Route No. 20.

- Mondays to Fridays Schooldays only journeys are withdrawn.

Tenderers should note that there are no changes proposed as part of this Service Specification for Route No. 20

### **Requirements for Registration:**

The section of Route No. 20 between Debden Station and the Essex County Boundary at High Road / Knighton Lane will need to be registered with the Traffic Commissioner (East of England) 56 days before the operation commences. The registration should be sent to:

Office of the Traffic Commissioner (East of England)  
Hillcrest House  
386 Harehills Lane  
Leeds  
LS9 6NF

Copies of the registration should be sent to:

Essex County Council  
Environment Sustainability and Highways  
County Hall  
Chelmsford, Essex  
CM1 1QH  
e-mail: [publictransport@essex.gov.uk](mailto:publictransport@essex.gov.uk)

and to:

Peter Nicholls (Licensing Manager),  
TfL Surface Transport  
10<sup>th</sup> Floor, Zone G8  
Palestra  
197 Blackfriars Road  
London  
SE1 8NJ  
e-mail: [peter.nicholls@tfl.gov.uk](mailto:peter.nicholls@tfl.gov.uk)

The cost of this and any future variation to this registration are to be met by the Operator.



2) **NOTES - continued.**

**Operators should provide the following prices:**

- 1. Annual diesel-electric hybrid price - based on minimum 5 year contract.**

**Tenderers are encouraged to offer alternative vehicle options in accordance with Part 9 of their tender, including but not limited to:**

- 1. New two door, single staircase vehicles inspired by the New Routemaster in respect of both their external and internal design, to the appropriate specification agreed between TfL and the manufacturers.**
- 2. Vehicles that offer genuine increased capacity on two axles and are certified as such.**
- 3. Modifications to reduce emissions and fuel consumption (including energy storage, engine stop/start, extended zero-emission range and/or energy efficient components)**
- 4. Existing vehicles. Separate costs must be provided both excluding and including the cost of upgrading to Euro VI standards. The inclusive costs should be on a per bus per annum basis.**

### 3) SCHEDULE REQUIREMENTS & PINCHPOINTS

#### 3.1) MONDAY TO FRIDAY SCHEDULE REQUIREMENTS & PINCHPOINTS

Walthamstow Central Station to Debden Station		Debden Station to Walthamstow Central Station			
First departure no later than 0610.		First departure no later than 0520.			
0605 - 0645	Every 20 minutes	0515 - 0550	Every 30 minutes		
0646 - 1925	Every 15 minutes	0551 - 1835	Every 15 minutes		
1926 - 2045	Every 20 minutes	1836 - 1955	Every 20 minutes		
2046 - 0020	Every 30 minutes	1956 - 2330	Every 30 minutes		
Last departure no earlier than 0015.		Last departure no earlier than 2325.			
<b>Pinchpoints</b>					
Loughton, Homebase	0715 - 0915	15 minutes	Whipps Cross Roundabout	0720 - 0920	15 minutes
	1500 - 1630	15 minutes		1510 - 1625	15 minutes

#### 3.2) SATURDAY AND GOOD FRIDAY SCHEDULE REQUIREMENTS & PINCHPOINTS

Walthamstow Central Station to Debden Station		Debden Station to Walthamstow Central Station			
First departure no later than 0610.		First departure no later than 0520.			
0605 - 0830	Every 20 minutes	0515 - 0550	Every 30 minutes		
0831 - 1925	Every 15 minutes	0551 - 0810	Every 20 minutes		
1926 - 1945	Every 20 minutes	0811 - 1835	Every 15 minutes		
1946 - 0020	Every 30 minutes	1836 - 1955	Every 20 minutes		
		1956 - 2330	Every 30 minutes		
Last departure no earlier than 0015.		Last departure no earlier than 2325.			
<b>Pinchpoints</b>					
Loughton, Homebase	0915 - 1100	15 minutes	Whipps Cross Roundabout	0910 - 1055	15 minutes

#### 3.3) SUNDAY AND PUBLIC HOLIDAY SCHEDULE REQUIREMENTS & PINCHPOINTS

Walthamstow Central Station to Debden Station		Debden Station to Walthamstow Central Station			
First departure no later than 0715.		First departure no later than 0625.			
0710 - 0020	Every 30 minutes	0620 - 2330	Every 30 minutes		
Last departure no earlier than 0015.		Last departure no earlier than 2325.			
<b>Pinchpoints</b>					
Loughton, Homebase	1050 - 1150	30 minutes	Whipps Cross Roundabout	1020 - 1150	30 minutes

Tenderers must identify the cost of the Boxing Day element of this service separately.

**4) OPERATIONAL CONSIDERATIONS**

- 4.1) Route No. 20 can suffer unpredictable traffic delays in the Walthamstow & Woodford Green areas.

**5) ROUTE RECORD, CURRENT PERFORMANCE, QSI BY TIME OF DAY, IBUS MILEAGE & QSI POINTS**

- 5.1) ROUTE RECORD  
As per Busnet Printout.
- 5.2) CURRENT PERFORMANCE  
As per current print out.
- 5.3) QSI BY TIME OF DAY  
As per current print out.
- 5.4) IBUS MILEAGE & QSI POINTS  
As per current print out.

# LONDON BUSES - ROUTE DESCRIPTION

## ROUTE 20: Walthamstow Central Station - Debden Station

**Date of Structural Change:** 23 March 2019.

**Date of Service Change:** 23 March 2019.

**Reason for Issue:** New tender.

### **STREETS TRAVERSED**

**Towards Debden Station:** Walthamstow Central Bus Station, Selborne Road, Hoe Street, Lea Bridge Road, Whipps Cross, Whipps Cross Roundabout, Lea Bridge Road, Woodford New Road, Waterworks Corner, Woodford New Road, Woodford Green High Road, Buckhurst Hill High Road, Loughton High Road, Old Station Road, Loughton Station Forecourt, Old Station Road, Loughton High Road, Church Hill, Rectory Lane, Hillyfields, Chester Road, Willingale Road, Colebrook Lane, Jessel Drive, Burney Drive, Westall Road, Etheridge Road, Willingale Road, The Broadway, Burton Road.

**Towards Walthamstow Central Station:** Torrington Drive, The Broadway, Willingale Road, Etheridge Road, Westall Road, Burney Drive, Jessel Drive, Castell Road, Chester Road, Hillyfields, Rectory Lane, Church Hill, Loughton High Road, Old Station Road, Loughton Station Forecourt, Old Station Road, Loughton High Road, Buckhurst Hill High Road, Woodford Green High Road, Woodford New Road, Waterworks Corner, Woodford New Road, Lea Bridge Road, Whipps Cross Roundabout, Whipps Cross, Lea Bridge Road, Leyton Green Road, High Road Leyton, Hoe Street, Selborne Road, Walthamstow Central Bus Station.

## **AUTHORISED STANDS, CURTAILMENT POINTS, & BLIND DESCRIPTIONS**

Please note that only stands, curtailment points, & blind descriptions as detailed in this contractual document may be used.

### **WALTHAMSTOW CENTRAL STATION**

Private stand for 13 buses in marked bays on east side of Walthamstow Central Bus Station on north side of Selborne Road. Overflow offside stand for 1 bus on west side of bus station in lay-by opposite Stop A.

Buses proceed from Walthamstow Central Bus Station direct to stand, departing to Walthamstow Central Bus Station. Set down in Walthamstow Central Bus Station, at Alighting Point (BP4267 - Walthamstow Bus Station, Last Stop on LOR: BP4267 - Walthamstow Bus Station) and pick up in Walthamstow Central Bus Station, at Stop B (BP4271 - Walthamstow Bus Station <>, First Stop on LOR: BP4271 - Walthamstow Bus Station <>).

AVAILABILITY:	At any time.
OPERATING RESTRICTIONS:	No more than 2 buses on Route 20 should be scheduled to stand at any one time.
MEAL RELIEFS:	No meal relief vehicles to stand at any time.
FERRY VEHICLES:	No ferry vehicles to park on stand at any time.
BLIND DISPLAY:	Walthamstow Central.
OTHER INFORMATION:	Council toilet facilities available 24 hours a day.

### **LEYTON, BAKERS ARMS (from DEBDEN STATION)**

Buses proceed from Leyton Green Road via Capworth Street and Dunton Road departing to Lea Bridge Road. Set down in Leyton Green Road, at Stop WK (34357 - Leyton Green Road, Last Stop on LOR: 34357 - Leyton Green Road) and pick up in Lea Bridge Road, at Stop EH (10468 - Lea Bridge Road / Bakers Arms, First Stop on LOR: 10468 - Lea Bridge Road / Bakers Arms).

AVAILABILITY:	At any time.
OPERATING RESTRICTIONS:	<b>Turning Point Only - Buses must not stand</b>
BLIND DISPLAY:	Leyton, Bakers Arms.

### **WHIPPS CROSS ROUNDABOUT (from DEBDEN STATION)**

Buses proceed from Whipps Cross Roundabout departing to Lea Bridge Road. Set down in Whipps Cross Roundabout, at Stop C (14274 - Whipps Cross Roundabout, Last Stop on LOR: 14274 - Whipps Cross Roundabout) and pick up in Lea Bridge Road (14275 - Hainault Court, First Stop on LOR: 14275 - Hainault Court).

AVAILABILITY:	At any time.
OPERATING RESTRICTIONS:	<b>Turning Point Only - Buses must not stand</b>
BLIND DISPLAY:	Whipps Cross.

## **WOODFORD GREEN, BROOMHILL ROAD**

### From Debden Station.

Buses proceed from Woodford Green High Road via Woodford New Road departing to Woodford Green High Road. Set down in Woodford Green High Road, at Stop C (R0477 - Chingford Lane, Last Stop on LOR: R0477 - Chingford Lane) and pick up in Woodford Green High Road, at Stop S (15336 - Chingford Lane, First Stop on LOR: 15336 - Chingford Lane).

### From Walthamstow Central Station.

Buses proceed from Woodford Green High Road via The Terrace, Broomhill Road and Johnston Road departing to Woodford Green High Road. Set down in Woodford Green High Road, at stop S (15336 - Chingford Lane, Last Stop on LOR: 15336 - Chingford Lane) and pick up in Woodford Green High Road, at stop B (15334 - Woodford Green / Broadmead Road, First Stop on LOR: 15334 - Woodford Green / Broadmead Road).

AVAILABILITY: At any time.  
OPERATING RESTRICTIONS: **Turning Point Only - Buses must not stand**  
BLIND DISPLAY: Woodford Green.

## **WOODFORD WELLS, HORSE & WELL (from Walthamstow Central Station)**

Public stand for two buses facing south on west side of slip road, on east side of Woodford Green High Road, commencing opposite the southern building line of the Horse & Well public house, and extending 22 metres north.

Buses proceed from Woodford Green High Road via Slip Road, Woodford Green High Road and Horse & Well Forecourt to stand, departing via Horse & Well Forecourt to Woodford Green High Road. Set down in Woodford Green High Road, at Stop FH (15329 - St Thomas Of Canterbury Church, Last Stop on LOR: 15329 - St Thomas Of Canterbury Church) and pick up in Woodford Green High Road, at Stop FS (15330 - St Thomas Of Canterbury Church, First Stop on LOR: 15330 - St Thomas Of Canterbury Church).

AVAILABILITY: At any time.  
OPERATING RESTRICTIONS: Unscheduled curtailments only.  
MEAL RELIEFS: No meal relief vehicles to stand at any time.  
FERRY VEHICLES: No ferry vehicles to park on stand at any time.  
BLIND DISPLAY: Woodford Wells.

## **LOUGHTON STATION**

Private (offside) stand for three buses in west side of approach road on Loughton LUL Station forecourt.

### From Debden Station.

Buses proceed from Loughton Station Forecourt direct to stand, departing to Loughton Station Forecourt. Set down in Loughton Station Forecourt, at Stop C (BP4835 - Loughton Station ⇄, Last Stop on LOR: BP4835 - Loughton Station ⇄) and pick up in Loughton Station Forecourt, at Stop A (BP4834 - Loughton Station ⇄, First Stop on LOR: BP4834 - Loughton Station ⇄).

### From Walthamstow Central Station.

Buses proceed from Loughton Station Forecourt direct to stand, departing to Loughton Station Forecourt. Set down in Loughton Station Forecourt, at Stop A (BP4834 - Loughton Station ⇄, Last Stop on LOR: BP4834 - Loughton Station ⇄) and pick up in Loughton Station Forecourt, at Stop C (BP4835 - Loughton Station ⇄, First Stop on LOR: BP4835 - Loughton Station ⇄).

AVAILABILITY:	At any time.
OPERATING RESTRICTIONS:	Unscheduled curtailments only
MEAL RELIEFS:	No meal relief vehicles to stand at any time.
FERRY VEHICLES:	No ferry vehicles to park on stand at any time.
BLIND DISPLAY:	Loughton.

## **DEBDEN, BURTON ROAD**

Public stand for three buses on south side of Burton Road in two portions:

1 - For one bus in bay commencing 63 metres west of the driveway to Epping Forest District Council building and extending 14 east.

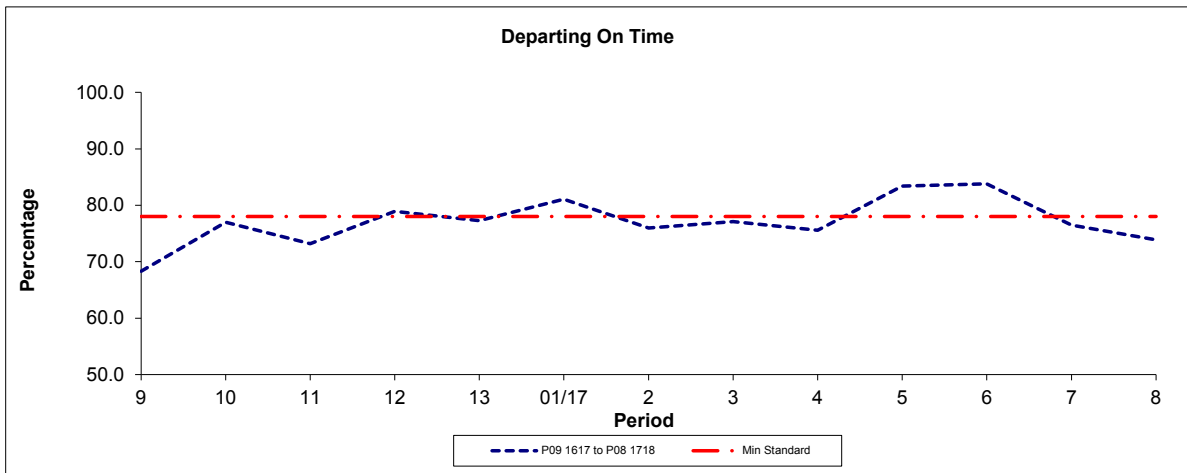
2 - For two buses opposite public car park, commencing at the driveway to Epping Forest District Council building and extending 27 metres east.

Buses proceed from Burton Road direct to stand, departing via Burton Road to Torrington Drive. Set down in Burton Road, on stand (BP5345 - Burton Road, Last Stop on LOR: BP5345 - Burton Road) and pick up in Torrington Drive (BP4747 - The Broadway, First Stop on LOR: BP4747 - The Broadway).

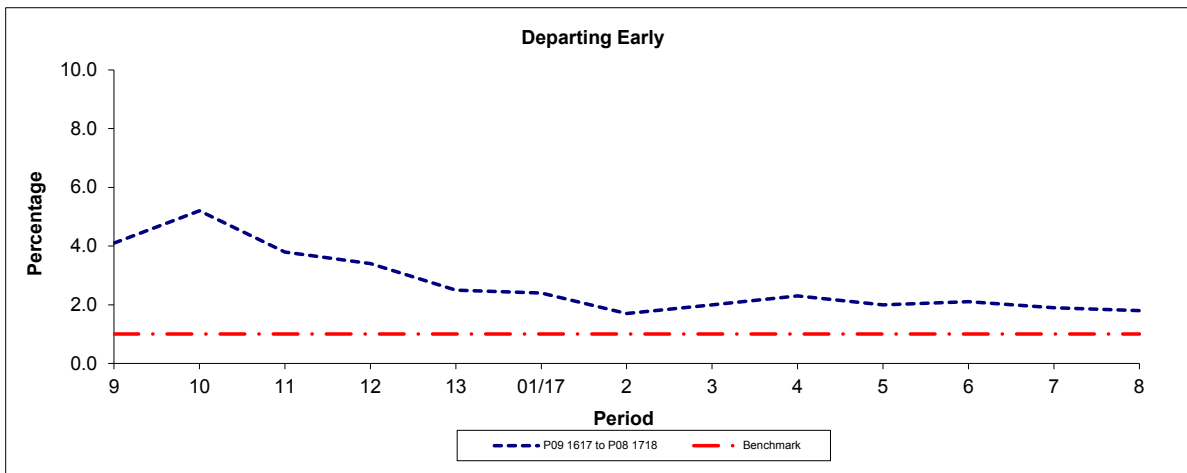
AVAILABILITY:	At any time.
OPERATING RESTRICTIONS:	No more than 2 buses on Route 20 should be scheduled to stand at any one time.
MEAL RELIEFS:	No meal relief vehicles to stand at any time.
FERRY VEHICLES:	No ferry vehicles to park on stand at any time.
BLIND DISPLAY:	Debden.

**PART B - PERFORMANCE STATISTICS**

**Route 20**



Period	9	10	11	12	13	01/17	2	3	4	5	6	7	8
P09 1617 to P08 1718	68.3	77.0	73.2	78.9	77.3	81.1	76.0	77.1	75.6	83.4	83.8	76.5	73.9
Min Standard	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0



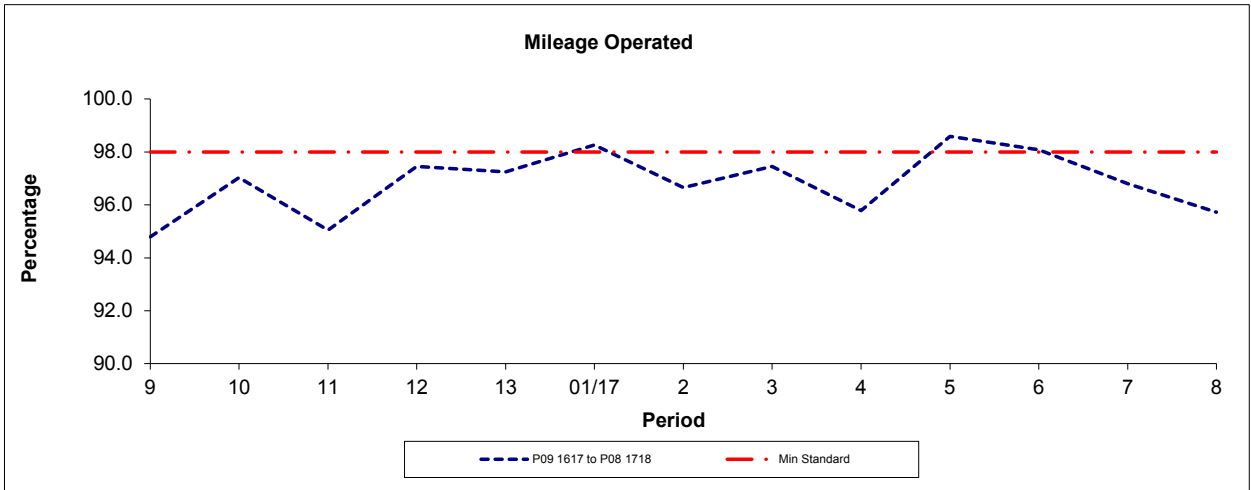
Period	9	10	11	12	13	01/17	2	3	4	5	6	7	8
P09 1617 to P08 1718	4.1	5.2	3.8	3.4	2.5	2.4	1.7	2.0	2.3	2.0	2.1	1.9	1.8
Benchmark	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Note : Reliability is actual performance under full iBus (4 weeks data).  
Minimum Standards and Benchmarks are those applicable under the new contract.

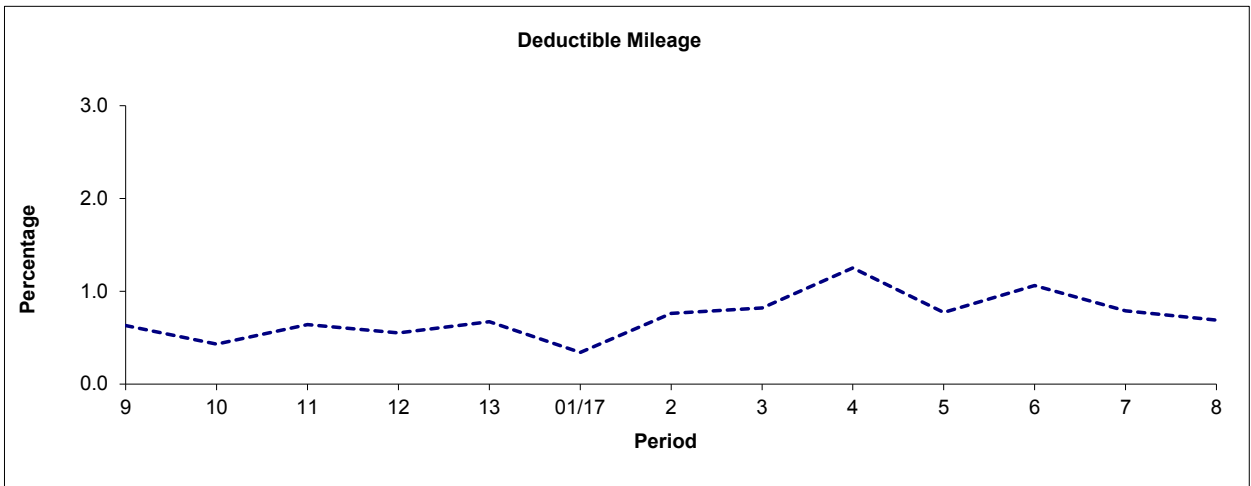


**PART B - PERFORMANCE STATISTICS**

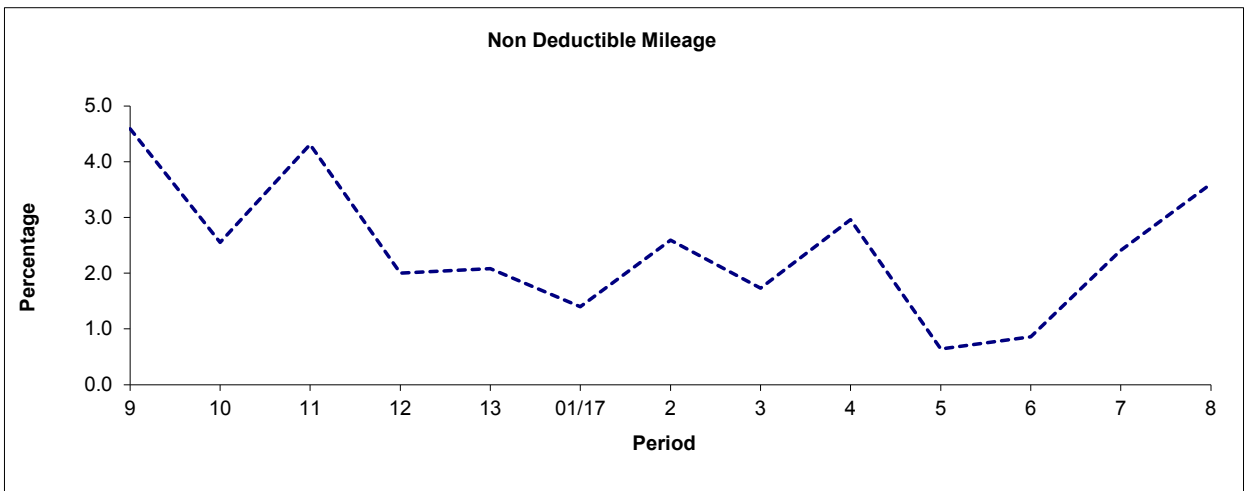
**Route 20**



Period	9	10	11	12	13	01/17	2	3	4	5	6	7	8
P09 1617 to P08 1718	94.79	97.03	95.05	97.45	97.25	98.26	96.65	97.45	95.79	98.59	98.08	96.80	95.72
Min Standard	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00



Period	9	10	11	12	13	01/17	2	3	4	5	6	7	8
P09 1617 to P08 1718	0.63	0.43	0.64	0.55	0.67	0.34	0.76	0.82	1.25	0.77	1.06	0.79	0.69



Period	9	10	11	12	13	01/17	2	3	4	5	6	7	8
P09 1617 to P08 1718	4.59	2.55	4.31	2.00	2.08	1.40	2.59	1.73	2.96	0.64	0.86	2.41	3.60

Note: Mileage is based on 4 weeks data

**ROUTE 20 - FULL iBUS RESULTS BY TIME OF DAY**  
**QUARTER 3 16/17 TO QUARTER 2 17/18 (17/09/16 - 15/09/17)**

**MONDAY - FRIDAY**

Time Range	Expected Buses	Observed Buses	Observed Buses (%)	Linked Buses (%)	On Time (%)	Non Arrival / Not Linked (%)	Early (%)	Late (%)
05:00 - 07:00	13,295	12,750	95.9	98.6	<b>92.9</b>	1.4	0.7	5.0
07:00 - 10:00	43,377	42,402	97.8	95.7	<b>81.0</b>	4.5	3.1	11.4
10:00 - 13:00	41,283	40,071	97.1	96.7	<b>80.8</b>	3.3	2.9	13.0
13:00 - 16:00	41,675	40,938	98.2	95.9	<b>79.2</b>	4.4	3.4	12.9
16:00 - 19:00	42,004	38,959	92.8	89.1	<b>66.2</b>	11.3	3.2	19.3
19:00 - 22:00	27,457	26,593	96.9	94.7	<b>73.9</b>	5.7	2.3	18.1
22:00 - 24:00	13,867	13,236	95.4	94.3	<b>75.5</b>	6.2	1.8	16.5
<b>All Locations Summary</b>	<b>222,958</b>	<b>214,949</b>	<b>96.4</b>	<b>94.6</b>	<b>76.6</b>	<b>5.9</b>	<b>2.9</b>	<b>14.5</b>

**SATURDAY**

Time Range	Expected Buses	Observed Buses	Observed Buses (%)	Linked Buses (%)	On Time (%)	Non Arrival / Not Linked (%)	Early (%)	Late (%)
05:00 - 07:00	2,366	2,305	97.4	98.7	<b>93.7</b>	1.1	0.8	4.5
07:00 - 10:00	7,488	7,385	98.6	98.4	<b>89.7</b>	1.7	2.9	5.8
10:00 - 13:00	8,636	8,503	98.5	97.3	<b>81.0</b>	2.8	3.7	12.5
13:00 - 16:00	8,686	8,305	95.6	92.8	<b>71.9</b>	7.3	3.7	17.0
16:00 - 19:00	8,589	8,291	96.5	93.5	<b>77.3</b>	6.6	4.4	11.7
19:00 - 22:00	5,425	5,253	96.8	95.8	<b>75.8</b>	4.4	3.0	16.7
22:00 - 24:00	2,896	2,786	96.2	94.1	<b>72.6</b>	6.5	1.5	19.4
<b>All Locations Summary</b>	<b>44,086</b>	<b>42,828</b>	<b>97.1</b>	<b>95.5</b>	<b>78.1</b>	<b>5.0</b>	<b>3.5</b>	<b>13.4</b>

**SUNDAYS & BANK HOLIDAYS**

Time Range	Expected Buses	Observed Buses	Observed Buses (%)	Linked Buses (%)	On Time (%)	Non Arrival / Not Linked (%)	Early (%)	Late (%)
05:00 - 07:00	488	456	93.4	98.6	<b>90.9</b>	1.5	0.6	7.0
07:00 - 10:00	4,667	4,590	98.4	98.2	<b>91.6</b>	1.9	1.8	4.7
10:00 - 13:00	4,843	4,793	99.0	98.1	<b>82.4</b>	2.1	3.7	11.8
13:00 - 16:00	4,904	4,667	95.2	93.7	<b>69.3</b>	6.7	2.4	21.6
16:00 - 19:00	4,784	4,756	99.4	96.7	<b>81.3</b>	3.6	3.1	11.9
19:00 - 22:00	4,865	4,848	99.7	98.6	<b>82.5</b>	1.4	2.4	13.6
22:00 - 24:00	3,169	3,104	97.9	98.5	<b>86.6</b>	1.8	3.6	8.0
<b>All Locations Summary</b>	<b>27,720</b>	<b>27,214</b>	<b>98.2</b>	<b>97.2</b>	<b>80.1</b>	<b>3.5</b>	<b>2.8</b>	<b>13.6</b>

**ALL DAYS**

Time Range	Expected Buses	Observed Buses	Observed Buses (%)	Linked Buses (%)	On Time (%)	Non Arrival / Not Linked (%)	Early (%)	Late (%)
05:00 - 07:00	16,149	15,511	96.0	98.6	<b>92.9</b>	1.4	0.7	5.1
07:00 - 10:00	55,532	54,377	97.9	96.3	<b>82.2</b>	4.1	3.0	10.6
10:00 - 13:00	54,762	53,367	97.5	96.9	<b>81.0</b>	3.1	3.1	12.7
13:00 - 16:00	55,265	53,910	97.5	95.2	<b>77.0</b>	5.1	3.4	14.5
16:00 - 19:00	55,377	52,006	93.9	90.4	<b>69.0</b>	10.0	3.3	17.7
19:00 - 22:00	37,747	36,694	97.2	95.3	<b>75.2</b>	5.0	2.4	17.4
22:00 - 24:00	19,932	19,126	96.0	94.9	<b>76.4</b>	5.7	2.0	15.9
<b>All Locations Summary</b>	<b>294,764</b>	<b>284,991</b>	<b>96.7</b>	<b>95.0</b>	<b>77.2</b>	<b>5.6</b>	<b>3.0</b>	<b>14.3</b>

Transport for London - QSI Points and Live Mileage List

v2.0 - Mileage directly imported from Caesar

**TRANCHE 635**

Route 20  
 Service change 26407  
 Date 07/03/2012  
 QSI Points are highlighted

Reason for Issue

Mileage Update

OUT DIRECTION				
Timing Point Code	Stop Number	Stop Name	Metres	Miles
WSTCSN	BP4271	Walthamstow Bus Station		
	11481	Grosvenor Park Road	628	0.39
	7962	Grove Road	228	0.14
	7964	Bakers Avenue	220	0.14
LEYTBAE	10468	Lea Bridge Road /Bakers Arms	271	0.17
	14265	Leyton Green Road	286	0.18
	14267	S hernhall Street	191	0.12
	14269	Peterborough Road	244	0.15
WHPCLB	14271	Whipps Cross /Wood Street	216	0.13
	14275	Hainault Court	407	0.25
	14277	Oakhurst Gardens	400	0.25
	14281	St Peters Church	245	0.15
	14287	Forest Road	606	0.38
	2932	Waterworks Corner	494	0.31
	2934	Chelmsford Road	251	0.16
	17849	Oak Hill	196	0.12
	17951	St Aubyn's School	248	0.15
	15336	Chingford Lane	478	0.30
WDFGCA	4363	Woodford Green /Broadmead Road	304	0.19
	15333	Monkhams Lane	511	0.32
	15329	St Thomas Of Canterbury Church	286	0.18
	15541	Whitehall Road /Bancrofts School	386	0.24
	15540	Knighth Lane	571	0.35
BUCKBF	BP4723	Bald Faced Stag	212	0.13
	BP4724	Russell Road	304	0.19
	BP4725	Cricknet Ground	432	0.27
	BP4832	North Farm	841	0.52
	BP4726	Spring Grove	435	0.27
	BP4931	Upper Park	302	0.19
	BP4727	The Crown	343	0.21
LGTNSN	BP4834	Loughton Station	300	0.19
	BP4728	Sainsbury's	215	0.13
	BP4829	The Crown	219	0.14
	BP4729	Forest Road	229	0.14
	BP4730	Traps Hill	324	0.20
	BP4731	The Uplands	297	0.18
	BP4732	Church Close	487	0.30
LGTNHB	BP4733	Homebase	231	0.14
	BP4734	Maple Gate	153	0.10
	BP4735	Hillyfields	222	0.14
	BP4736	Hillcroft	188	0.12
	BP4737	Pyrls Lane	228	0.14
	BP4738	Chandler Road	184	0.11
DEBNCR	BP4739	Castell Road	341	0.21
	BP4740	Davenant School	252	0.16
	BP4741	Colebrook Lane	436	0.27
	BP4742	The Cottage Loaf	239	0.15
	BP4743	Goldingham Avenue	258	0.16
	BP4744	Mannock Drive	269	0.17
	BP4745	Etheridge Road	307	0.19
	BP4746	Vere Road	392	0.24
DEBNBR	BP5345	Burton Road	279	0.17

**Total Route Mileage - Out Direction**      **16586**      **10.31**  
 Metres      Miles

BACK DIRECTION				
Timing Point Code	Stop Number	Stop Name	Metres	Miles
DEBNSN	BP4747	The Broadway		
	BP4748	Torrington Drive	54	0.03
	BP4749	The Broadway	207	0.13
	BP4750	Etheridge Road	530	0.33
	BP4751	Mannock Drive	355	0.22
	BP4752	Goldingham Avenue	237	0.15
	BP4753	The Cottage Loaf	249	0.15
	BP4754	Colebrook Lane	225	0.14
DEBNCR	BP4755	Castell Road	228	0.14
	BP4756	Chandler Road	209	0.13
	BP4757	Pyrls Lane	191	0.12
	BP4762	Hillcroft	346	0.21
	BP4763	Hillyfields	167	0.10
	BP4764	Maple Gate	170	0.11
LGTNHB	BP4765	Homebase	131	0.08
	BP4766	Church Lane	363	0.23
	BP4767	The Uplands	367	0.23
	BP4768	Traps Hill	254	0.16
	BP4769	Forest Road	325	0.20
	BP4727	The Crown	370	0.23
LGTNSN	BP4835	Loughton Station	277	0.17
	BP4728	Sainsbury's	238	0.15
	BP4828	The Crown	227	0.14
	BP4830	The Crescent	358	0.22
	BP4770	Spring Grove	249	0.15
	BP4833	North Farm	428	0.27
	BP4771	Cricknet Ground	724	0.45
	BP4772	Russell Road	348	0.22
BUCKBF	BP4773	Bald Faced Stag	363	0.23
	15539	Knighth Lane	396	0.25
	36693	Whitehall Road /Bancrofts School	427	0.27
	15330	St Thomas Of Canterbury Church	406	0.25
	15332	Monkhams Lane	381	0.24
WDFGCA	15334	Woodford Green /Broadmead Road	402	0.25
	R0477	Chingford Lane	295	0.18
	17950	St Aubyn's School	585	0.36
	17949	Chelmsford Road	390	0.24
	2933	Waterworks Corner	293	0.18
	34478	Forest Road	467	0.29
	14282	St Peters Church	662	0.41
	14278	Snaresbrook Road	413	0.26
	14276	Hainault Court	192	0.12
WHPCRA	14274	Whipps Cross Roundabout	328	0.20
	14272	Whipps Cross /Wood Street	203	0.13
	14270	Peterborough Road	269	0.17
	14266	Essex Road	217	0.13
	34357	Leyton Green Road	227	0.14
LEYTBAL	7968	Lea Bridge Road /Bakers Arms	535	0.33
	7966	Hoe Street/Bakers Arms	213	0.13
	7963	Grove Road	310	0.19
	7960	Queen's Road	308	0.19
	R0036	Walthamstow Central Station	361	0.22
WSTCSN	BP4267	Walthamstow Bus Station	96	0.06

**Total Route Mileage - Back Direction**      **16566**      **10.29**  
 Metres      Miles