

## CONTRACT SPECIFICATION

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

<b>Contract Reference</b>	QC39301
<b>Route Number</b>	103
<b>Terminus Points</b>	Chase Cross, Chase Cross Road to Rainham Station Interchange
<b>Contract Basis</b>	Incentivised
<b>Commencement Date</b>	13 <sup>th</sup> October 2012
<b>Vehicle Type</b>	87 capacity, dual door, double deck buses
<b>Current Maximum Approved Dimensions</b>	10.5 metres long and 2.5 metres wide
<b>Advertising Rights</b>	Operator
<b>Sponsored Route</b>	No
<b>Minimum Performance Std</b>	Average Excess Wait Time - No more than 0.80 minutes
<b>Extension Threshold</b>	Average Excess Wait Time Threshold - 0.70 minutes
<b>Minimum Operated Mileage</b>	No less than 98.00%

Tender Return Date: No later than 12:00 noon on 17<sup>th</sup> October 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. 103.

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:

- Route No. 103 is restructured to operate between Chase Cross, Chase Cross Road and Rainham Station Interchange. Route No. 103 is extended from Rainham, War Memorial via Rainham Broadway, Wennington Road and Rainham Interchange Entrance to Rainham Station Interchange. Buses will set down, stand and pick up in Rainham Station Interchange. **Please see section 5 for a full list of streets traversed.**

## 2) SCHEDULE REQUIREMENTS & PINCHPOINTS

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

Chase Cross, Chase Cross Road to Rainham Station Interchange			Rainham Station Interchange to Chase Cross, Chase Cross Road#		
First departure no later than 0500.			First departure no later than 0500.		
0455 - 0600	Every 20 minutes		0455 - 0600	Every 20 minutes	
0601 - 0630	Every 15 minutes		0601 - 0630	Every 15 minutes	
0631 - 1810	Every 10 minutes		0631 - 1840	Every 10 minutes	
1811 - 1955	Every 15 minutes		1841 - 1955	Every 15 minutes	
1956 - 2340	Every 20 minutes		1956 - 0020	Every 20 minutes	
Last departure no earlier than 2335.			Last departure no earlier than 0015.		
<b>Pinchpoints</b>					
Dagenham	0705 - 0905	10 minutes	Romford	0705 - 0905	10 minutes
East Station	1500 - 1630	10 minutes	Market, St. Edwards Way	1500 - 1630	10 minutes

# Buses operating towards Chase Cross, Chase Cross Road are diverted in Romford after 2130 (until last bus) from South Street (at junction of Victoria Road) via Victoria Road to Mercury Gardens to resume line of routeing after the junction of Mercury Gardens & Western Road. Buses will consequently not serve the stop on South Street and Western Road. The stop on Victoria Road will be served instead. Buses operating towards Rainham Station Interchange are unaffected and remain on normal line of route.

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

Chase Cross, Chase Cross Road to Rainham Station Interchange			Rainham Station Interchange to Chase Cross, Chase Cross Road#		
First departure no later than 0500.			First departure no later than 0500.		
0455 - 0820	Every 20 minutes		0455 - 0840	Every 20 minutes	
0821 - 1740	Every 10 minutes		0841 - 1740	Every 10 minutes	
1741 - 1855	Every 15 minutes		1741 - 1855	Every 15 minutes	
1856 - 2340	Every 20 minutes		1856 - 0020	Every 20 minutes	
Last departure no earlier than 2335.			Last departure no earlier than 0015.		
<b>Pinchpoints</b>					
Dagenham	0925 - 1105	10 minutes	Romford	0930 - 1100	10 minutes
East Station			Market, St. Edwards Way		

# Buses operating towards Chase Cross, Chase Cross Road are diverted in Romford after 2130 (until last bus) from South Street (at junction of Victoria Road) via Victoria Road to Mercury Gardens to resume line of routeing after the junction of Mercury Gardens & Western Road. Buses will consequently not serve the stop on South Street and Western Road. The stop on Victoria Road will be served instead. Buses operating towards Rainham Station Interchange are unaffected and remain on normal line of route.

**2) SCHEDULE REQUIREMENTS & PINCHPOINTS - continued**

**2.3) SUNDAY AND PUBLIC HOLIDAY SCHEDULE REQUIREMENTS & PINCHPOINTS**

Chase Cross, Chase Cross Road to Rainham Station Interchange			Rainham Station Interchange to Chase Cross, Chase Cross Road#		
First departure no later than 0700.			First departure no later than 0715.		
0655 - 1100	Every 30 minutes		0710 - 1015	Every 30 minutes	
1101 - 2340	Every 20 minutes		1016 - 0020	Every 20 minutes	
Last departure no earlier than 2335.			Last departure no earlier than 0015.		
<b>Pinchpoints</b>					
Dagenham East Station	1000 - 1130	30 minutes	Romford Market, St. Edwards Way	1015 - 1045	30 minutes
				1046 - 1145	20 minutes

**# Buses operating towards Chase Cross, Chase Cross Road are diverted in Romford after 2130 (until last bus) from South Street (at junction of Victoria Road) via Victoria Road to Mercury Gardens to resume line of routeing after the junction of Mercury Gardens & Western Road. Buses will consequently not serve the stop on South Street and Western Road. The stop on Victoria Road will be served instead. Buses operating towards Rainham Station Interchange are unaffected and remain on normal line of route.**

**2.4) BOXING DAY SCHEDULE REQUIREMENTS & PINCHPOINTS**

Chase Cross, Chase Cross Road to Rainham Station Interchange			Rainham Station Interchange to Chase Cross, Chase Cross Road#		
First departure no later than 0800.			First departure no later than 0815.		
0755 - 1100	Every 30 minutes		0810 - 1015	Every 30 minutes	
1101 - 2340	Every 20 minutes		1016 - 0020	Every 20 minutes	
Last departure no earlier than 2335.			Last departure no earlier than 0015.		
<b>Pinchpoints</b>					
Dagenham East Station	1000 - 1130	30 minutes	Romford Market, St Edwards Way	1015 - 1045	30 minutes
				1046 - 1145	20 minutes

**# Buses operating towards Chase Cross, Chase Cross Road are diverted in Romford after 2130 (until last bus) from South Street (at junction of Victoria Road) via Victoria Road to Mercury Gardens to resume line of routeing after the junction of Mercury Gardens & Western Road. Buses will consequently not serve the stop on South Street and Western Road. The stop on Victoria Road will be served instead. Buses operating towards Rainham Station Interchange are unaffected and remain on normal line of route.**

### 3) QSI POINTS & MILEAGE

It is intended Route No. 103 will have 80 surveys per quarter at the following locations:

<b>QSI POINTS</b>	
<b>Towards Rainham, War Memorial/Rainham Station Interchange</b>	<b>Towards Chase Cross, Chase Cross Road</b>
Romford	Rainham
Dagenham East \$	Dagenham East \$
	Romford
<b>MILEAGE: See Attached iBus Sheets</b>	

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

### 4) OPERATIONAL CONSIDERATIONS

- 4.1) When compiling schedules Tenderers are asked to consider passengers making connections to other services at the following locations: Romford Station, Dagenham East Station and Rainham Station.
- 4.2) Parts of South Street and Western Road in Romford are closed to northbound traffic after 2130 as a result of safety concerns due to anti social behaviour. Buses operating towards Chase Cross, Chase Cross Road are diverted in Romford after 2130 (until last bus) from South Street (at junction of Victoria Road) via Victoria Road to Mercury Gardens to resume line of routeing after the junction of Mercury Gardens & Western Road. Buses will consequently not serve the stop on South Street and Western Road. The stop on Victoria Road will be served instead. Buses operating towards Rainham Station Interchange are unaffected and remain on normal line of route.
- 4.3) Route No. 103 can suffer unpredictable traffic delays in the Romford and Dagenham areas.
- 4.4) Route No. 103 can suffer from disruptions in the Dagenham area during home matches of Dagenham and Redbridge Football Club.
- 4.5) Route No. 103 can suffer from disruptions due to Romford Market, which is held on Wednesdays, Fridays and Saturdays and can lead to traffic delays in the Romford area.

#### **4) OPERATIONAL CONSIDERATIONS - continued**

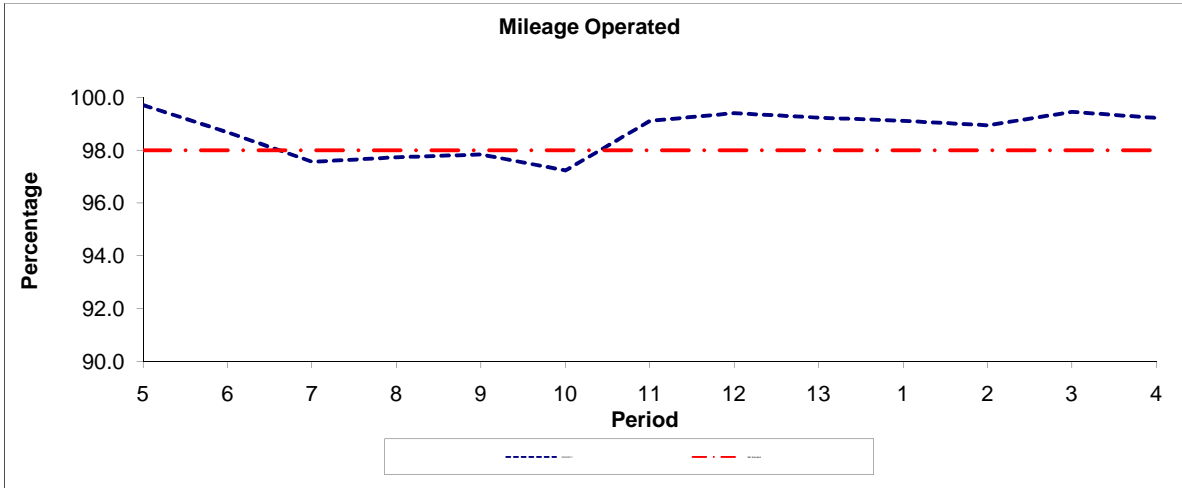
- 4.6) There is a traffic management scheme for Rainham Village which will involve extending Viking Way to Upminster Road South and the removal of the bus stand at the War Memorial to deliver public realm improvements. The removal of the bus stand and pedestrianisation of the area at the War Memorial will only be implemented subject to the extension to Rainham Station Interchange being implemented.
- 4.7) New residential development in Rainham of up to approximately 850 units, the largest of which is planned at Dover's Corner, is proposed over the next few years which could increase demand on Route No. 103. This will be kept under review as development comes forward.
- 4.8) Temporary 24 hour driver facilities will be provided by the London Borough of Havering in the interim period when a date for the extension to Rainham Station Interchange has been confirmed to them. The location of permanent driver facilities accessible 24 hours a day is yet to be agreed with the London Borough of Havering.

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

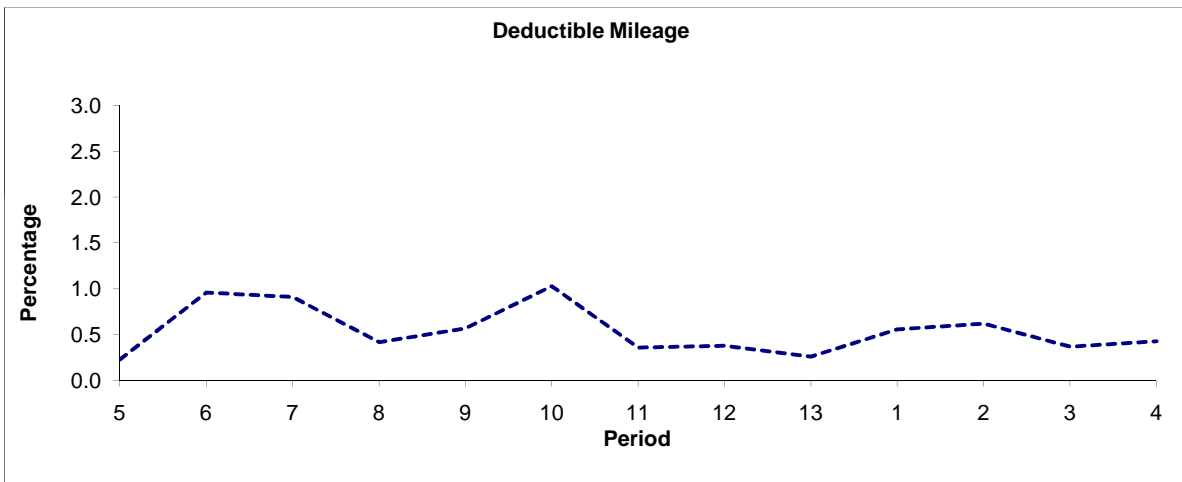
- 5.1) **CURRENT PERFORMANCE**  
As per current print out.
- 5.2) **ROUTE RECORD**  
As per Busnet Printout.
- 5.3) **IBUS MILEAGE**  
As per current print out.

**PART B - PERFORMANCE STATISTICS**

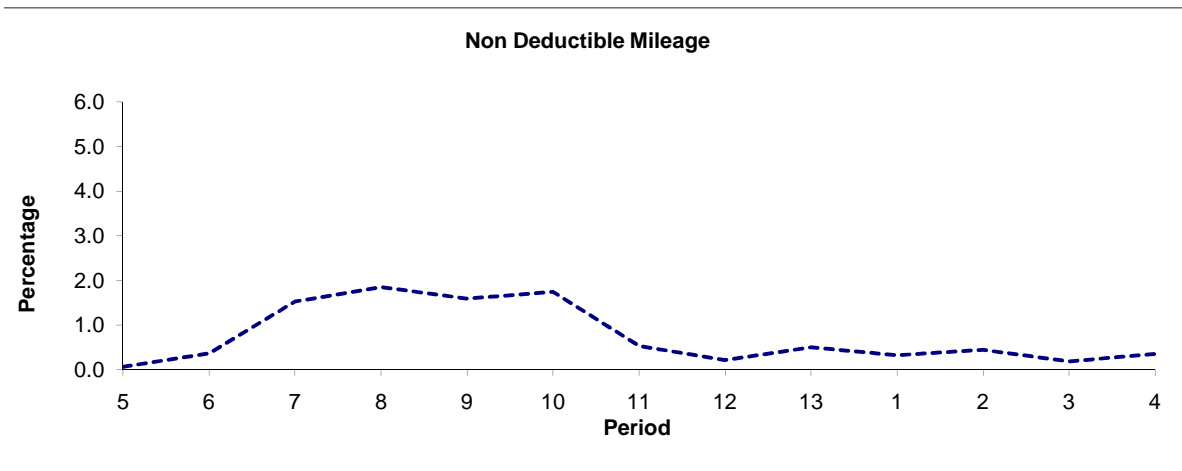
**Route 103**



Period	5	6	7	8	9	10	11	12	13	1	2	3	4
2010/2011	99.71	98.68	97.56	97.73	97.84	97.23	99.11	99.41	99.24	99.12	98.94	99.45	99.22
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	5	6	7	8	9	10	11	12	13	1	2	3	4
2010/2011	0.23	0.96	0.91	0.42	0.57	1.03	0.36	0.38	0.26	0.56	0.62	0.37	0.43



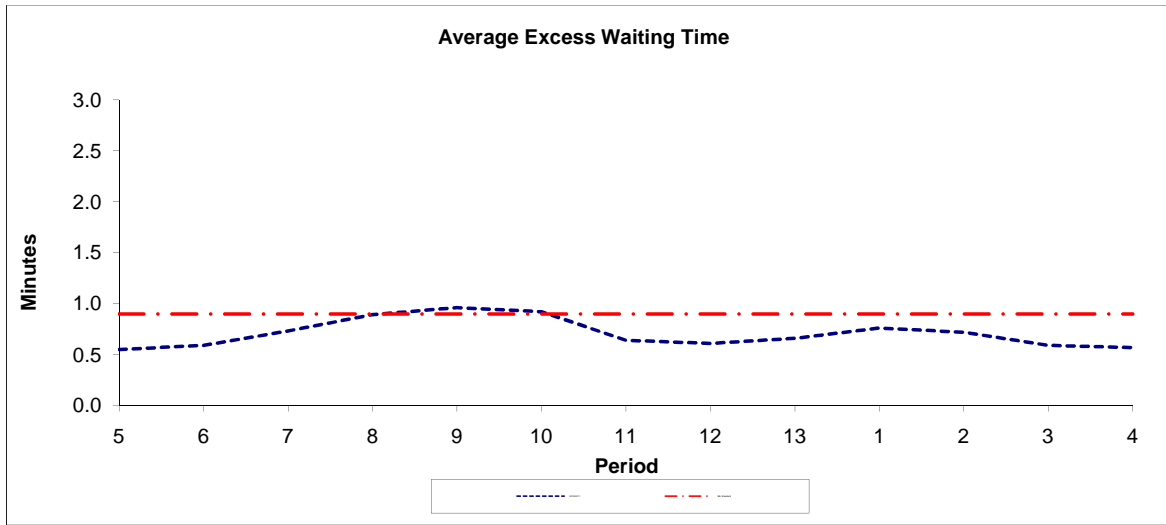
Period	5	6	7	8	9	10	11	12	13	1	2	3	4
2010/2011	0.06	0.36	1.53	1.85	1.59	1.74	0.53	0.21	0.50	0.32	0.44	0.18	0.35

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

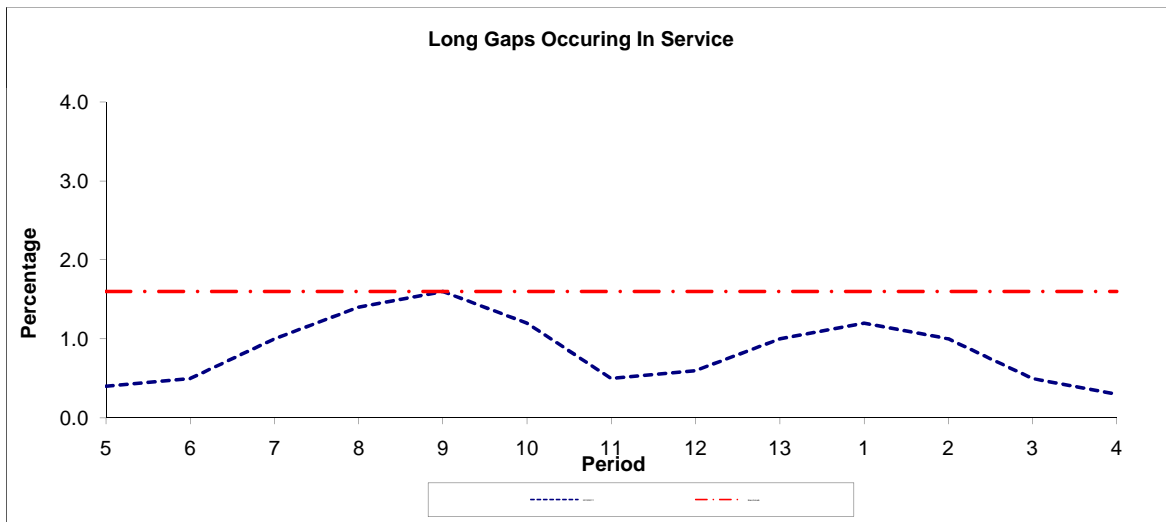


**PART B - PERFORMANCE STATISTICS**

**Route 103**



Period	5	6	7	8	9	10	11	12	13	1	2	3	4
2010/2011	0.55	0.59	0.73	0.89	0.96	0.92	0.64	0.61	0.66	0.76	0.72	0.59	0.57
Min Standard	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90



Period	5	6	7	8	9	10	11	12	13	1	2	3	4
2010/2011	0.40	0.50	1.00	1.40	1.60	1.20	0.50	0.60	1.00	1.20	1.00	0.50	0.30
Benchmark	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60

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

## LONDON BUSES - ROUTE DESCRIPTION

### ROUTE 103: Chase Cross, Chase Cross Road - Rainham Interchange

**Date of Structural Change:** 14 October 2012.

**Date of Service Change:** 14 October 2012.

**Reason for Issue:** New tender.

#### **STREETS TRAVERSED**

**Towards Rainham Interchange:** Chase Cross Road, Havering Road, Pettits Lane North, Eastern Avenue East, North Street, St Edwards Way, Main Road Roundabout, Mercury Gardens, Western Road, Chandlers Way, Eastern Road, South Street, Oldchurch Road, Oldchurch Road Roundabout, Oldchurch Road, Dagenham Road, Rush Green Road, Wood Lane, Rainham Road North, Rainham Road South, Dagenham Road, Rainham Road, Dovers Corner, Bridge Road, Rainham Broadway, Wennington Road, Rainham Interchange Entrance, Rainham Interchange.

**Towards Chase Cross, Chase Cross Road:** Rainham Interchange, Ferry Lane, Wennington Road, Rainham Broadway, Bridge Road, Dovers Corner, Rainham Road, Dagenham Road, Rainham Road South, Rainham Road North, Wood Lane, Rush Green Road, Dagenham Road, Oldchurch Road, Oldchurch Road Roundabout, Oldchurch Road, South Street, Western Road, Mercury Gardens, Main Road Roundabout, St Edwards Way, North Street, Eastern Avenue East, Pettits Lane North, Havering Road, Gobions Avenue, Chase Cross Road.

**Special Journey towards Chase Cross, Chase Cross Road between South Street and Mercury Gardens:**

After 2130 every night buses operate from South Street, then via Victoria Road rejoining line of route at Mercury Gardens.

## **STANDING AND TURNING POINTS**

### **CHASE CROSS, CHASE CROSS ROAD**

Public stand for four buses on north side of Chase Cross Road, commencing opposite the centre of No. 292 and extending 45 metres west.

Buses proceed from Chase Cross Road direct to stand, departing to Chase Cross Road. Set down in Chase Cross Road, at Stop CE and pick up in Chase Cross Road, at Stop CE.

AVAILABILITY:	At any time.
OPERATING RESTRICTIONS:	No more than 2 buses on Route 103 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:	Chase Cross.

### **ROMFORD, HAINAULT ROAD (from RAINHAM INTERCHANGE)**

Public stand for three buses on east side of Hainault Road, commencing at a point opposite the party wall of Nos. 21/23 and extending 38 metres north.

Buses proceed from North Street via Eastern Avenue West and Hainault Road to stand, departing via Hainault Road to North Street. Set down in North Street, at Stop NB and pick up in North Street, at Stop NS.

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:	Romford, Parkside Avenue.

## **ROMFORD, NORTH STREET BUS GARAGE**

Private stand in North Street Bus Garage.

### **From Chase Cross, Chase Cross Road.**

Buses proceed from North Street via Seymer Road and North Street Bus Garage to stand, departing via North Street Bus Garage and Park Drive to North Street. Set down in Seymer Road, at stop NQ and pick up in North Street, at stop NB.

### **From Rainham Interchange.**

Buses proceed from North Street via Seymer Road and North Street Bus Garage to stand, departing via North Street Bus Garage and Park Drive to North Street. Set down in North Street, at stop NA and pick up in North Street, at stop J.

AVAILABILITY:	At any time.
OPERATING RESTRICTIONS:	Unscheduled curtailments only
MEAL RELIEFS:	By arrangement.
FERRY VEHICLES:	By arrangement.
DISPLAY:	Romford North Street Bus Garage.

## **ROMFORD STATION, ATLANTA BOULEVARD**

Private stand for 15 buses in marked bays in Bus Parking Area in Atlanta Boulevard on south side of Romford Station.

### **From Chase Cross, Chase Cross Road.**

Buses proceed from South Street via Atlanta Boulevard to stand, departing via Atlanta Boulevard to South Street. Set down in South Street, at Stop T and pick up in South Street, at Stop V.

### **From Rainham Interchange.**

Buses proceed from South Street via Atlanta Boulevard to stand, departing via Atlanta Boulevard and Romford Station Forecourt to South Street. Set down in Atlanta Boulevard, at Alighting Point and pick up in South Street, at Stop T.

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:	Romford Station.

## **BECONTREE HEATH BUS STATION**

Private stand for 4 buses standing abreast in marked bays in bus station on south side of Wood Lane.

### From Chase Cross, Chase Cross Road.

Buses proceed from Wood Lane via Becontree Heath Bus Station to stand, departing via Becontree Heath Bus Station to Wood Lane. Set down in Wood Lane, at Stop P and pick up in Wood Lane, at Stop R.

### From Rainham Interchange.

Buses proceed from Rainham Road North via Wood Lane and Becontree Heath Bus Station to stand, departing via Becontree Heath Bus Station and Wood Lane to Rainham Road North. Set down in Rainham Road North, at Stop N and pick up in Rainham Road North, at Stop M.

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:	Becontree Heath.

## **DAGENHAM EAST, THE BULL (from Chase Cross, Chase Cross Road)**

Buses proceed from Rainham Road South departing to Rainham Road South. Set down in Rainham Road South, at stop D and pick up in Rainham Road South, at stop L.

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

## **SOUTH HORNCHURCH, NEWTONS CORNER (from Chase Cross, Chase Cross Road)**

Buses proceed from Dagenham Road via Rainham Road (Circling Roundabout Junction Of) departing to Dagenham Road. Set down in Dagenham Road, at Stop B and pick up in Dagenham Road, at Stop M.

AVAILABILITY:	At any time.
OPERATING RESTRICTIONS:	<b>Turning Point Only - Buses must not stand</b>
DISPLAY:	South Hornchurch, Newtons Corner.

## **RAINHAM STATION INTERCHANGE**

Buses proceed from Rainham Interchange direct to stand, departing to Rainham Interchange. Set down on stand and pick up on stand.

AVAILABILITY:	At any time.
OPERATING RESTRICTIONS:	No more than 2 buses on Route 103 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:	Rainham Interchange.

## Transport for London - Live Mileage List

Route 103  
 Service change via Victoria Road  
 Date 27 November 2010

OUT DIRECTION				
Timing Point Code	Stop Number	Stop Name	Metres	Miles
CHSXCC S	CHSXCC S	CHASE CROSS, CHASE CROSS ROAD		
CHSXCC	27480	Chase Cross	0	0.00
	29006	Campbell Close	168	0.10
	29007	Garry Way	250	0.16
	29002	Moray Way	296	0.18
	29000	Mashiters Hill	356	0.22
	27999	Heather Close	256	0.16
	18280	Heather Gardens	316	0.20
	18282	Pettits Lane	236	0.15
	18284	Ashmour Gardens	308	0.19
	18286	North Street	408	0.25
NS GR	33997	Romford Bus Garage	433	0.27
	18246	The Avenue	231	0.14
ROMFSE	34092	Romford Market	499	0.31
	BP4873	Mercury Gardens	351	0.22
	R0656	Western Road	335	0.21
ROMFSN	R0680	Romford Station	403	0.25
	R0337	Rom Valley Way	430	0.27
	18290	Oldchurch Rise For Queens Hospital	367	0.23
	18292	Crow Lane	307	0.19
	18294	Norwood Avenue	303	0.19
	9007	Dagenham Road	158	0.10
	18349	Leonard Avenue	381	0.24
	18347	Clayton Road	301	0.19
	19265	Barton Avenue	239	0.15
BCONCCW	9823	Civic Centre / Wood Lane	476	0.30
	9820	Civic Centre / Rainham Road North	301	0.19
	18296	Bull Lane	366	0.23
	18298	Woodshire Road	355	0.22
	18800	Dagenham Road	550	0.34
	18304	Victoria Road	271	0.17
	18306	Reede Road	237	0.15
DAGESN	18308	Dagenham East Station	210	0.13
	18310	Aldborough Road	396	0.25
	18312	Ballards Road	359	0.22
	18314	Leys Avenue	219	0.14
	18316	York Road	328	0.20
SHRNNC	18318	Thorogood Way	356	0.22
	25153	Fyfield Road	545	0.34
	18441	Nelson Road	297	0.18
	18443	Cherry Tree Lane	266	0.17
	20422	Anstead Drive	420	0.26
	18445	Dovers Corner	364	0.23
RAINWM	BP394	Rainham War Memorial	540	0.34
RAINWM S	RAINWM S	RAINHAM, WAR MEMORIAL	0	0.00
<b>TOTAL ROUTE MILEAGE - OUT DIRECTION</b>			<b>14188</b>	<b>8.82</b>
			metres	miles

<b>BACK DIRECTION</b>				
<b>Timing Point</b>				
<b>Code</b>	<b>Stop Number</b>	<b>Stop Name</b>	<b>Metres</b>	<b>Miles</b>
RAINWM S	RAINWM S	RAINHAM, WAR MEMORIAL		
RAINWM	BP394	Rainham War Memorial	0	0.00
	20479	Rainham War Memorial	75	0.05
	18446	Dovers Corner	508	0.32
	20423	Knightswood Estate	354	0.22
	18444	Cherry Tree Lane	440	0.27
	18442	Nelson Road	391	0.24
	25154	Fyfield Road	265	0.16
SHRNNC	20517	Thorogood Way	412	0.26
	18317	York Road	366	0.23
	26887	Leys Avenue	310	0.19
	26888	Ballards Road	183	0.11
	BP270	Ballards Road	354	0.22
	18311	Sandown Avenue	211	0.13
DAGESN	18309	Dagenham East Station	342	0.21
	18307	Reede Road	190	0.12
	18305	Victoria Road	246	0.15
	18301	Oxlow Lane	378	0.23
	18299	Woodshire Road	403	0.25
	18297	Bull Lane	353	0.22
	9821	Civic Centre / Rainham Road North	371	0.23
BCONCCW	9822	Civic Centre / Wood Lane	522	0.32
	19266	Barton Avenue	309	0.19
	18348	Clayton Road	246	0.15
	18350	Leonard Avenue	465	0.29
	18295	Norwood Avenue	454	0.28
	18293	Crow Lane	315	0.20
	18291	Oldchurch Rise For Queens Hospital	311	0.19
	18289	Rom Valley Way	315	0.20
ROMFVR	2245	Romford Station	436	0.27
ROMFSE	34116	Romford Market	978	0.61
	34141	The Avenue	494	0.31
NS GR	18245	Park Drive	183	0.11
ROMFPA	4350	Eastern Avenue	309	0.19
	18287	Havering Road	288	0.18
	18285	Ashmour Gardens	349	0.22
	18283	Pettits Lane	289	0.18
	18281	Heather Gardens	295	0.18
	27998	Heather Close	303	0.19
	29001	Mashiters Hill	302	0.19
	29003	Moray Way	325	0.20
	35935	Gobions Avenue	359	0.22
	36733	Avelon Road	347	0.22
CHSXCC	27480	Chase Cross	196	0.12
CHSXCC S	CHSXCC S	CHASE CROSS, CHASE CROSS ROAD	0	0.00
<b>TOTAL ROUTE MILEAGE - BACK DIRECTION</b>			14542	9.04
			metres	miles



## Transport for London - Live Mileage List

Route 103  
 Service change via Western Road  
 Date 27 November 2010

OUT DIRECTION				
Timing Point Code	Stop Number	Stop Name	Metres	Miles
CHSXCC S	CHSXCC S	CHASE CROSS, CHASE CROSS ROAD		
CHSXCC	27480	Chase Cross	0	0.00
	29006	Campbell Close	168	0.10
	29007	Garry Way	250	0.16
	29002	Moray Way	296	0.18
	29000	Mashiters Hill	356	0.22
	27999	Heather Close	256	0.16
	18280	Heather Gardens	316	0.20
	18282	Pettits Lane	236	0.15
	18284	Ashmour Gardens	308	0.19
	18286	North Street	408	0.25
NS GR	33997	Romford Bus Garage	433	0.27
	18246	The Avenue	231	0.14
ROMFSE	34092	Romford Market	499	0.31
	BP4873	Mercury Gardens	351	0.22
	R0656	Western Road	335	0.21
ROMFSN	R0680	Romford Station	403	0.25
	R0337	Rom Valley Way	430	0.27
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	18294	Norwood Avenue	303	0.19
	9007	Dagenham Road	158	0.10
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	18347	Clayton Road	301	0.19
	19265	Barton Avenue	239	0.15
BCONCCW	9823	Civic Centre / Wood Lane	476	0.30
	9820	Civic Centre / Rainham Road North	301	0.19
	18296	Bull Lane	366	0.23
	18298	Woodshire Road	355	0.22
	18800	Dagenham Road	550	0.34
	18304	Victoria Road	271	0.17
	18306	Reede Road	237	0.15
DAGESN	18308	Dagenham East Station	210	0.13
	18310	Aldborough Road	396	0.25
	18312	Ballards Road	359	0.22
	18314	Leys Avenue	219	0.14
	18316	York Road	328	0.20
SHRNNC	18318	Thorogood Way	356	0.22
	25153	Fyfield Road	545	0.34
	18441	Nelson Road	297	0.18
	18443	Cherry Tree Lane	266	0.17
	20422	Anstead Drive	420	0.26
	18445	Dovers Corner	364	0.23
RAINWM	BP394	Rainham War Memorial	540	0.34
RAINWM S	RAINWM S	RAINHAM, WAR MEMORIAL	0	0.00
<b>TOTAL ROUTE MILEAGE - OUT DIRECTION</b>			14188	8.82
			metres	miles

BACK DIRECTION				
Timing Point Code	Stop Number	Stop Name	Metres	Miles
RAINWM S	RAINWM S	RAINHAM, WAR MEMORIAL		
RAINWM	BP394	Rainham War Memorial	0	0.00
	20479	Rainham War Memorial	75	0.05
	18446	Dovers Corner	508	0.32
	20423	Knightswood Estate	354	0.22
	18444	Cherry Tree Lane	440	0.27
	18442	Nelson Road	391	0.24
	25154	Fyfield Road	265	0.16
SHRNCC	20517	Thorogood Way	412	0.26
	18317	York Road	366	0.23
	26887	Leys Avenue	310	0.19
	26888	Ballards Road	183	0.11
	BP270	Ballards Road	354	0.22
	18311	Sandown Avenue	211	0.13
DAGESN	18309	Dagenham East Station	342	0.21
	18307	Reede Road	190	0.12
	18305	Victoria Road	246	0.15
	18301	Oxlow Lane	378	0.23
	18299	Woodshire Road	403	0.25
	18297	Bull Lane	353	0.22
	9821	Civic Centre / Rainham Road North	371	0.23
BCONCCW	9822	Civic Centre / Wood Lane	522	0.32
	19266	Barton Avenue	309	0.19
	18348	Clayton Road	246	0.15
	18350	Leonard Avenue	465	0.29
	18295	Norwood Avenue	454	0.28
	18293	Crow Lane	315	0.20
	18291	Oldchurch Rise For Queens Hospital	311	0.19
	18289	Rom Valley Way	315	0.20
ROMFSN	BP240	Romford Station	422	0.26
ROMFWR	34121	Western Road	332	0.21
ROMFSE	34116	Romford Market	631	0.39
	34141	The Avenue	494	0.31
NS GR	18245	Park Drive	183	0.11
ROMFPA	4350	Eastern Avenue	309	0.19
	18287	Havering Road	288	0.18
	18285	Ashmour Gardens	349	0.22
	18283	Pettits Lane	289	0.18
	18281	Heather Gardens	295	0.18
	27998	Heather Close	303	0.19
	29001	Mashiters Hill	302	0.19
	29003	Moray Way	325	0.20
	35935	Gobions Avenue	359	0.22
	36733	Avelon Road	347	0.22
CHSXCC	27480	Chase Cross	196	0.12
CHSXCC S	CHSXCC S	CHASE CROSS, CHASE CROSS ROAD	0	0.00
<b>TOTAL ROUTE MILEAGE - BACK DIRECTION</b>			14513	9.02
			metres	miles