CITY AIRPORT DEVELOPMENT PROGRAMME (CADP)

CADP: TRANSPORT ASSESSMENT VOLUME 2





APPENDIX A

Transport Scoping Report and TfL Response



London City Airport

Eastern Stand Development Project

Transport Scoping Report

December 2012



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1 INTRODUCTION AND BACKGROUND

- 1.1 Vectos has been retained by London City Airport (LCY) to provide traffic and transportation advice in relation to their proposal for new and upgraded aircraft stands, an extension to the taxi-lane running adjacent to the runway, a new arrivals building, reconfigured forecourt area, hotel (in outline) and related infrastructure works.
- 1.2 This planning application, known as the Eastern Stand Development (ESD) project, forms part of planned on-going improvements at the Airport that will enhance operational efficiency, passenger service and capacity in accordance with current and future customer, airline and regulatory requirements. Such improvements are broadly consistent with the long term plans which were described in London City Airport's 2006 Master Plan.
- 1.3 Since 2007, there has been continued growth in the size of aircraft using the Airport. The aircraft are both physically larger and carry marginally more passengers, which has resulted in changes in the demand for airport infrastructure in the critical morning and early evening peak periods.
- 1.4 The new aircraft stands are required to accommodate new aircraft types, including the Bombardier C-Series which Swiss has advised it wishes to operate at LCY by 2015/16.
- 1.5 LCY is an international Airport primarily serving the business community of London. After many years of growth at the Airport, the recession contributed to a decline in passenger numbers between 2008 and 2010. Annual passenger numbers are now increasing again and in 2011 approximately 2.99 million passengers per annum (mppa) used the Airport, compared to 2.78 mppa in 2010, an increase of 7.6%.
- 1.6 In August 2011, the Department for Transport (DfT) published its latest Aviation Forecasts. In respect of London City Airport, the DfT anticipate it reaching 120,000 air transport movements by 2021 and handling approximately 7 mppa.
- 1.7 The ESD project would enable the Airport to accommodate 5.95 mppa on 107,008 scheduled movements by 2023, compared to 4.49 mppa on 87,602 scheduled movements without this planning application.

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- 1.8 It is important to note that no increase in the permitted number of aircraft movements is being sought and the Airport will continue to be permitted to operate up to a maximum limit of 120,000 (noise factored) movements per annum, as approved by LBN in July 2009.
- 1.9 This scoping report sets out the background of the ESD project from a transport perspective, provides justification for the proposals, and sets out the further work that will be undertaken as part of the planning application submission.
- 1.10 The remainder of this scoping report is set out as follows:

Section 2 – sets out a description of the existing conditions;

Section 3 – describes the existing passenger and staff travel patterns;

Section 4 - describes the proposals in detail;

Section 5 - describes the relevant transport policy;

Section 6 - considers the assessment on sustainable modes including the DLR;

Section 7 – considers the assessment of the highway network;

Section 8 – provides a summary.



2 EXISTING CONDITIONS

2.1 This section describes the existing conditions and transport characteristics at the Airport.

Site Location

- 2.2 Figure 1 shows the London City Airport site in relation to the surrounding area and transport system. London City Airport is located between the Royal Albert Dock and the King George V Dock, adjacent to the Woolwich Reach and Gallions Reach of the River Thames.
- 2.3 The permitted and existing use of the site is as an International Airport. There are two elements to the Airport; the main Airport building with ancillary services and the Jet Centre that serves corporate clients.

Surrounding Area

- 2.4 The existing land uses in the vicinity of the site are varied and of mixed use. There are residential areas; industrial areas and commercial areas. There is a significant amount of planned development and regeneration in the vicinity of the Airport.
- 2.5 The Airport provides international links to cities in Europe and has excellent links to local public transport facilities that connect the Airport to London and its suburbs. The Airport also has an excellent domestic route network that is of value in terms of regeneration to the surrounding area.
- 2.6 The location of the Airport site is adjacent to a designated Air Quality Management Area (AQMA). The impact of the increase in flights on both air and noise is considered in the Environmental Statement.
- 2.7 There are no continuous movements of abnormal loads to and from the Airport by surface transport. However if they should be required, they will be considered within any application to the local highway authority should the need arise.

Local Road Network

2.8 The main trunk roads providing access to the Airport from the north are the east-west A13 and the A406 North Circular that connects with the M11 and M25 motorways. The Airport is just a mile from the A13 (Prince Regent's Lane junction), three miles from the A406 and 15



miles from the M25. In recent years, large sections of the A13 have been substantially upgraded and expanded. In particular the 10 mile stretch between Canning Town in Newham and Wennington near the junction with the M25 has been widened to three lanes in each direction. Grade separation at junctions with key north-south routes has relieved congestion at those junctions.

- 2.9 The A102(M) trunk road crosses the Thames north-south via the Blackwall Tunnel approximately three miles from LCY. Used intensively at peak periods, this is the nearest road river crossing point to the Airport.
- 2.10 The highway network in the vicinity of the Airport encompass a number of different routes. The highway runs eastwards from Tower Hill to Canary Wharf via the Limehouse Link. Aspen Way and the Lower Lea Crossing link the Blackwall Tunnel and the Isle of Dogs with the Royals. From the Lower Lea Crossing the Airport is accessed from the west via a four-lane single carriageway (Silvertown Way and North Woolwich Road).
- 2.11 The Royal Albert Way is a two-lane dual carriageway that links the Airport, via the Connaught Bridge to the A1020 and the A406/A13 intersection, just three miles north-east of the Airport. Albert Road links the Airport with Woolwich and the Woolwich Ferry river crossing. The Airport is connected to Connaught Bridge via Connaught Road and the Airport's own access road, Hartmann Road.
- 2.12 The junction of Hartmann Road with the A112 Connaught Road is signal controlled. There are no access constraints on the local highway network for any mode of movement to and from the Airport.

Car Parking

- 2.13 There are two main car parking areas within the Airport, shared between passengers and staff. The short stay car park is located closest to the terminal building; and the main stay car park adjacent to this. Staff parking is available within both the short and main stay car parks. Staff are required to apply for and display a parking permit.
- 2.14 Both short stay and main stay car parks are pay on exit and barrier controlled, with the access from Hartmann Road. The current fee schedule for the two car parks for passengers is shown in **Table 2.1**.

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Short Stay	Car Park	Main Car Park				
Hours	Price	Hours	Price			
0 - 0.5	£5.50	0-4	£16.00			
0.5 - 1	£10.00	4-8	£18.00			
1-2	£14.00	8 – 12	£22.00			
2 – 4	£18.00	12 – 24	£40.00			
4 - 8	£22.00	24 – 36	£60.00			
8 – 12	£30.00	36 – 48	£80.00			
12 – 24	£45.00	Additional 24 hours	£40.00			
24 – 36	£75.00					
36 - 48	£90.00					
Additional 24 hours	£45.00					

Table 2.1: December 2011 Parking Charges at LCY

2.15 The short-stay car park has 148 spaces whilst the long-stay car park has 644 spaces. In addition to this, there are 120 parking spaces allocated to car hire companies. These are located adjacent to Hartmann Road.

Accident Analysis

2.16 An analysis will be undertaken of Personal Injury Accident (PIA) data for the most recent 5 year period. The extent of the personal injury accident (PIA) investigation area is Connaught Bridge, the roundabout junction with Hartmann Road, the full length of Hartmann Road, Connaught Road up to its junction with Kennard Street and Woolwich Manor Way between Barge House Road and Fishguard Way. This is shown on **Figure 2**.

Accessibility by Non-Car Modes

- 2.17 A key factor in determining the suitability of a location is its accessibility by non-car modes of transport. This helps to reduce the reliance on the use of the private car as well as promoting the aims of sustainable travel choices.
- 2.18 The following section considers the accessibility of the Airport by walking, cycling and public transport.



Walking

- 2.19 London City Airport is very accessible on foot from the surrounding residential and commercial areas. The footways on the surrounding highways are lit, well maintained, are of sufficient width for their purpose and free of surplus street furniture. There are clear defined routes for pedestrians to use in and around the airport. There are controlled pedestrian facilities at the traffic signal controlled junction of Connaught Road and Hartmann Road.
- 2.20 Because of these facilities local residents and visitors to the area can walk to the Airport in order to catch bus services and the DLR.
- 2.21 Being a predominantly business orientated Airport the likelihood of many passengers walking to the Airport is limited, however a number of staff working within the Airport do live locally and walk to work. The most recent sample staff survey undertaken in September 2011 showed that 7% of the staff walk to work, a significant increase in the 2% of staff who walked to work in 2009. This illustrates the potential importance of walking as a mode of travel to the Airport, particularly for staff.
- 2.22 During the traffic surveys undertaken in 2010 / 2012, most pedestrian activity at the Airport was observed to be, to and from the car parks and the offices at City Aviation House.

Cycling

2.23 There are covered cycling parking stands located beneath the DLR adjacent to the motorcycle parking. These stands are opposite the main entrance to the Airport Terminal and can be utilised free of charge. Cycle stands are most likely to be used by staff, however there is still a significant number of unoccupied cycle stands available throughout the day.

Taxi

2.24 The current arrangement for taxi services is that on arrival at the airport with passengers, the taxi will drop passengers at the front of the terminal building. Once the passenger has paid the taxi fare, the vehicle departs from the drop off/pick up area and either turns right away from the Airport or turns left and joins the back of the taxi rank that extends towards the Airport parking areas.

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- 2.25 The use of taxis helps to reduce the demand for parking spaces and the use of private motor vehicles. Taxis are often considered a more convenient form of transport for people with special mobility needs.
- 2.26 Taxis perform an important role as a public transport provider by reducing the passenger's reliance on the private car. They are particularly useful for passengers using the airport from Central London because they are not restricted to a time table or constrained by fixed routes. Taxis also fulfil a demand that cannot be met by bus, train or tube, especially early in the morning or late at night.
- 2.27 There is a large taxi rank at the entrance to the airport main terminal and therefore passengers arriving on a flight at the airport benefit from the close proximity of waiting black cabs.
- 2.28 On a typical busy day in 2012 there were 12,001 passengers using the airport. Travel surveys undertaken between 2009-2012 show that on average 14.7% of passengers used Black cabs and 16.8% used Minicabs to arrive at the airport; this is the equivalent of 3,780 passengers using taxis on a typical busy day in 2012.

Buses

- 2.29 There are bus stops adjacent to the 'ready' hire car parking area outside the terminal building on Hartmann Road and adjacent to the Jet Centre (used by staff, crew and passengers). All buses that visit the site perform a 'U' turn around the pick up/drop off area so only single stops are required ensuring that passengers do not have to cross Hartmann Road to get to the stops.
- 2.30 The Airport is served by two Transport for London Bus Services, the 473 and the 474.
- 2.31 The 473 service provides a bus that travels from Stratford Plaistow LCY North Woolwich, departing about every 9-13 minutes from the terminal forecourt in both directions. The service commences from Stratford at 05:04 (06:11 Sunday) with the last bus at 01:14. The first bus from North Woolwich departs at 04:30 (05:39 Sunday) with the last bus at 00: 16.
- 2.32 The 474 bus runs along the route connecting Canning Town LCY North Woolwich Beckton East Ham Manor Park, departing about every 10-13 minutes in both directions from the terminal forecourt. The service operates over a 24 hour period, 7 days a week.

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- 2.33 Passenger travel surveys show that between 2009-2012 approximately 0.3% of passengers use buses to arrive at the airport; this is the equivalent to an average of 36 passengers on a typical busy day in 2012.
- 2.34 It is noted that bus usage is greater amongst staff, with around 9-10% of the mode share.

Docklands Light Railway (DLR)

- 2.35 The DLR opened in 1987 to serve the first developments in Docklands, with eleven trains and fifteen stations. Since then, a number of extensions have been seen; the DLR has progressively been extended to Bank, Beckton, Lewisham, Stratford International and Woolwich Arsenal via London City Airport. The DLR London City Airport extension, opened in December 2005 with the extension onwards to Woolwich Arsenal completed in 2009. The section between Canning Town and London City Airport is known as 'the Airport route.'
- 2.36 The DLR is extensive and currently comprises a 34 km railway with 40 stations and more than 100 trains. According to Transport for London (TfL), DLR carries almost 70 million passengers, with this expected to rise to more than 100 million in 2012. DLR is a fully accessible and fully integrated railway - it connects with more than 100 bus routes, five mainline railways, eight Underground lines and coach, taxi and river services.
- 2.37 DLR operates between 05:30 00:30 on Monday to Saturdays and between 07:00 23:30 on Sundays.
- 2.38 In January 2012 DLR confirmed that trains on the Bank → Woolwich Arsenal service have been increased from two to three-carriage trains, to help accommodate increasing DLR passenger numbers using the service from Woolwich Arsenal. The new three-carriage trains will provide extra capacity and enhanced comfort for passengers.
- 2.39 Travel surveys undertaken between 2009-2012 show that the DLR mode share has fluctuated between 46-56%, with an average of 51.5%. During a typical busy day during 2012, this equated to an average of 6,181 passengers per day.



3 EXISTING TRAVEL PATTERNS

Passenger Profile

- 3.1 In the calendar year 2011 there were 2,992,847 passengers passing through the airport, including passengers travelling on flights at the Jet Centre. Overall this is an increase of 7.1% on 2010, when there were 2,780,582 passengers passing through the airport.
- 3.2 At the same time the total number of aircraft movements at the Airport increased marginally from 67,871 in 2010, to 68,100 in 2011.
- 3.3 **Chart 3.1** shows the daily passenger profile of passengers accessing the airport during 2012. This takes into account that on average, passengers arrive 1 hour and 15 minutes prior to their flight departing from the airport if travelling on a scheduled flight, and 15 minutes if flying from the Jet Centre. When a flight arrives at the airport it takes on average 15 minutes for passengers to depart from the airport from both the scheduled flights and Jet Centre.





3.4 Chart 3.2 shows that the busiest hours of the day for accessing the Airport are during 08:00 –
09:00 and 18:00 – 19:00. There is a noticeable dip in passengers at the Airport between
10:00 and 16:00 and after 20:00 in the evenings.

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3.5 In terms of the types of passengers using London City Airport, a survey undertaken in 2010 indicates that 63% of passengers are travelling for business purposes, which is substantially higher than the average for the other London airports. Around 32% of passengers using London City Airport for business travel were foreign resident, compared with around 17% using Heathrow.

Staff Numbers

- 3.6 Baseline employment data shows that in 2010 shows that there were an estimated 2,264 FTE employees dependent on the Airport; broken down between 1,955 direct employees (principally on-site), 197 indirect employees and 112 induced employees located in the surrounding areas.
- 3.7 The greatest proportion of employees are employed in Airline / Passenger Handling with30% of the total, followed by 27% employed by the Airport Operator.
- 3.8 The latest staff travel survey reveals that 74% of staff employed at the Airport work shifts, as opposed to regular office hours. This is demonstrated by the fact that 44% of staff regularly start work between 05:00 06:00 and 56% of staff regularly finish work between 21:00 24:00. This reduces the proportion of staff travel during peak hours, but limits the choice of modes available for travel to work.

Mode Split

Passengers

3.9 LCY, as part of its on-going monitoring programme, undertakes regular passenger surveys. As part of this survey it asks passengers their last mode of transport to the Airport. The latest survey for which information is available was undertaken in June 2012. The results of this and other surveys undertaken over the past six years are summarised in **Table 3.1**.

	DLR	Black Cab	Minicab	Car	Bus	Transfer	Other	Total
Sept 2005	0%	42%	7%	12%	37%	1%	1%	100%
June 2006	46%	28%	10%	13%	2%	1%	0%	100%
Dec 2009	49%	15%	20%	12%	0%	2%	1%	100%
June 2010	49%	13%	19%	11%	1%	3%	4%	100%
Mar 2011	51%	14%	19%	15%	0%	1%	0%	100%

Table 3.2: Change in Mode Split over time - ALL Passengers

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Jun 2011	55%	7%	23%	12%	0%	1%	0%	100%
Mar 2012	49%	27%	6%	12%	0%	5%	1%	100%
June 2012	56%	12%	14%	15%	1%	2%	0%	100%
Av. 2009 - 2012	51.6%	14.7%	16.9%	12.9%	0.3%	2.4%	1.2%	100.0%

3.10 **Chart 3.2** illustrates the change in mode split over time between 2005 and 2012.

Chart 3.2: Change in Mode Split over time 2005 - 2012



- 3.11 Table 3.1 and Chart 3.2 reveals that the mode split has fluctuated since the introduction of the DLR in December 2005. Between 2009 and 2012, DLR mode share varies between 49% and 56%, with an average of 51.6% using the DLR. The average for Black Cabs / Minicabs and Private Car is similar, between 14.7% 16.9% respectively. Bus usage is low at between 0% and 1% whilst transfer passengers (those who arrive on one flight and depart on another without leaving the Airport) comprise an average of 2.4%.
- 3.12 Since LCY has such a high proportion of passengers using public transport to access the Airport, it can be regarded as one of the most sustainable transport developments within London.
- 3.13 The use of the mode split figures from LCY's passenger surveys has previously been agreed with DLR, since DLR do not collect this data themselves.

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Staff

3.14 London City Airport is committed to monitoring staff travel patterns through its Travel Plan. The latest staff travel survey was undertaken during September 2011. A total of 514 staff completed the questionnaire and provided information on their last mode of transport to work. The results of this survey, as compared to the previous survey in 2009, are included in Table 3.3.

Table 3.3: Change in Mode Split over time - Staff

	DLR	M'cab	Car	Bus	Walk	Cycle	M'bike	Other	Total
Sept 2009	19%	1%	66%	9%	2%	1%	1%	0%	100%
Sept 2011	22%	3%	53%	10%	7%	2%	2%	1%	100%

3.15 Table 3.3 illustrates that the greatest proportion of employees travel by car with 53% of the total in 2011. This is followed by DLR with 22% and bus with 10%. Compared to the 2009 survey, the proportion of car travel has decreased, with walking seeing the greatest increase in mode share from 2% to 7%.



4 DEVELOPMENT PROPOSALS

Scheme Elements

- 4.1 The Eastern Stand Development Project will allow the Airport to accommodate a new generation of aircraft as well as improving the facilities for passengers.
- 4.2 The application proposals specifically comprise the following elements:
 - Seven new aircraft stands and reconfiguration of existing stands 21-24
 - New entry/exit links to the runway and an extension of the taxilane running adjacent to the runway
 - New arrivals building and terminal forecourt
 - New hotel (in outline)
 - New Multi-Storey Car Park
- 4.3 A copy of the Architect's Scheme Layout is shown in **Appendix A**.

Phasing

- 4.4 The indicative phasing for the construction of the proposals is as follows:
 - Phase 1 (2016): 5 additional stands and extension to the taxi-lane; first phase of new arrivals building and forecourt
 - Phase 2 (2019): 2 additional stands; second phase of construction of arrivals building and forecourt.
 - Phase 3 (2021): Completion of construction for the ESD project.

Vehicle Access

- 4.5 Vehicle access will continue to be provided from the junction of Hartmann Road / A1011 Connaught Road.
- 4.6 In addition, it is proposed to create a further permanent access and vehicle link to the Airport from the junction with the A117 Woolwich Manor Way / Fishguard Way. The link already exists and has previously provided access to the Airport for staff and most recently

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has provided temporary access during the Olympics. The link is within LCY's ownership and it provides a direct connection between the eastern end of Hartmann Road and the signalised junction with the A117 Woolwich Manor Way / Fishguard Way. The link is shown on **Figure 3**.

4.7 Provision of the additional access improves the Airport's resilience, as well as shortening the distance travelled on the local highway network for journeys to / from the east. In particular, it will reduce the number of LCY related vehicles using the A1020 Royal Albert Way.

Airport Forecourt

- 4.8 The Airport Forecourt is being relocated and redesigned to provide sufficient capacity to accommodate the predicted increase in passengers of up to 6 mppa. A copy of the Forecourt Layout is provided at **Appendix B**.
- 4.9 The forecourt has been relocated eastwards from its current location to enable the construction of the new arrivals building and for a 30m exclusion zone prohibiting vehicular activity near the arrivals building.
- 4.10 The forecourt has been redesigned to provide additional capacity in accordance with the predicted increase in demand for each mode utilising the forecourt. The key features of the design are as follows:
 - Black taxi drop-off and pick-up located adjacent to the footway fronting the terminal
 - Black taxi pick-up queue located in two lanes within the forecourt with a further taxi feeder park located on land towards Kind George V
 - Two bus stops located in laybys on Hartmann Road
 - Car pick-up and drop-off lanes provided with wide footways and pedestrian crossings linking to the terminal
 - Blue badge pick-up / drop-off facility located nearest to the terminal
 - A new roundabout to facilitate the efficient movement of vehicles between the forecourt and Hartmann Road

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Car Parking

- 4.11 Passengers and staff currently share the short stay and main stay car parks. It is proposed to provide separate passenger and staff car parks with passenger parking to be provided in a new multi-storey car park whilst staff parking will be provided in a new surface level car park near to King George V Dock. This enables staff and passenger parking to be managed and monitored separately.
- 4.12 The existing and proposed car parking provision is set out in **Table 4.1**.

	Existing	Proposed
Short Stay	148	200
Main Stay	644	550
Staff	Within short and main stay	300*
Car Hire	120	150
Total	912	1,200

Table 4.1: Car Parking Provision

* subject to confirmation of future staff numbers

- 4.13 Table 4.1 shows that it is proposed to increase the parking provision from 912 spaces to 1,200 spaces. This increase is not pro rata to the increase in passengers and staff that will be associated with the proposals, demonstrating the Airport's commitment to encourage travel by sustainable modes.
- 4.14 However, it is necessary to ensure that an appropriate parking provision is provided in order to minimise the potential for overspill parking on surrounding residential roads which do not have parking controls. Hence the passenger car park has been designed in order that it operates at capacity at peak times and assuming that a realistic mode shift to other modes has been achieved (as set out in Tables 4.6 and 4.7). Similarly, the staff parking provision seeks to encourage a high mode share by sustainable modes, whilst recognising that many staff frequently work shift patterns with anti-social hours when public transport options are limited. Staff parking provision will be finalised once the future staff numbers have been confirmed.



Passenger Numbers

- 4.15 The 2009 planning consent allows the annual number of permitted aircraft movements at LCY to grow to 120,000 'noise-factored' movements. The forecasts made in 2006 (and used to inform the 2007 ES which accompanied the planning application), predicted that the 120,000 movement limit would be reached in 2010, of which 25,000 movements were predicted to derive from the Jet Centre, with the number of passengers carried reaching 3.9 million per annum. The projected increase in movements failed to materialise, due primarily to the global recession.
- 4.16 However, the effect of the recession has seen airlines introduce larger more fuel efficient aircraft, with lower seat mile costs. The recession has also driven to the demand for peak period flights higher, with less peak spreading than anticipated at the time of forecasts prepared pre-recession. Hence, revised aircraft and passenger forecasts for the period between 2011 and 2023 have been prepared by York Aviation LLP.
- 4.17 A comparison of the aircraft size and capacity of the current and future fleet mix is provided in **Table 4.2**.

Aircraft	Seats	Wingspan (m)	Length (m)	Height (m)
Existing		•	•	
BAE 146 / RJ 100	82-112	26.21	30.99	8.61
Bombardier Dash 8 / Q400	70-78	28.42	32.84	8.36
Dornier Do328	33-39	20.98	21.22	7.24
Embraer 170	76	26.00	29.90	9.67
Embraer 190	98-112	28.72	36.24	10.28
Fokker F50	50	29.00	25.25	8.32
ATR-42	46-50	24.57	22.67	7.59
ATR-72	68-74	27.10	27.20	7.65
Saab 2000	50	24.76	27.28	7.73
Future			·	
A318	32 - 107	34.09	31.45	12.56
Embraer 170	76	26.00	29.90	9.67
Embraer 190	98-112	28.72	36.24	10.28
Bombardier CS 100	110	35.05	34.9	11.5
Bombardier Q400	78	28.42	32.84	8.36
ATR-42	46-50	24.57	22.67	7.59

 Table 4.2: Aircraft Size and Capacity

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ATR-72	68-74	27.10	27.20	7.65
Saab 2000	50	24.76	27.28	7.73

4.18 Table 4.2 shows that whilst the future fleet are physically larger in terms of wingspan, length and height, there is only a marginal difference in seating capacity.

Annual Passenger Numbers

4.19 The annual aircraft movements / passenger numbers both With and Without Development are set out in **Table 4.3**.

	2010	2021		2023					
	Existing	With Dev. Without		With Dev.	Without				
			Dev.		Dev.				
Scheduled	59 752	10/ 700	87 602	107 008	87 602				
Movements	55,752	104,750	87,002	107,000	87,002				
Passengers	2,780,582	5,564,134	4,443,308	5,948,078	4,490,523				
	Source: Vork Aviation								

Table 4.3: Annual Passenger Numbers

Source: York Aviation

4.20 This shows that passenger numbers are predicted to increase incrementally from 2.78 mppa in 2010 to 5.95 mppa in 2023 With Development compared to 4.49 mppa Without Development. The difference in passenger numbers With and Without Development occurs as a result of the difference in scheduled movements.

Peak Hour Passenger Numbers

- 4.21 Growth in scheduled movements and passenger numbers is driven by the Airport's primary role in supporting the business travel needs associated with the Docklands Financial Services cluster, resulting in a greater dependence on peak period travel compared to other airports which have a broader mix of passenger types, allowing a greater spread of services.
- 4.22 The ESD project facilitates a change to the daily profile of passengers arriving / departing the Airport, compared to the Without Development scenario. The proportions in the peak periods are similar, but there will be a higher demand in the off peak period in the With Development scenario.

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4.23 A Load Factor is the proportion of passenger seating capacity occupied on a plane. Load factors are predicted to vary throughout the day, with higher load factors at peak times which is driven by higher demand. The peak period load factors both With and Without Development are shown in **Table 4.4**.

	2021	2021		2023	
	With	Without	With	Without	
	Dev.	Dev.	Dev.	Dev.	
Peak Periods	85%	90%	85%	90%	

Table 4.4: Peak Period Load Factors

- 4.24 As can be seen from **Table 4.4**, peak period load factors are predicted to be 85% With Development and 90% Without Development. Load factors are higher Without Development because of the shortage of peak period flights whilst demand remains the same both With and Without Development. In other words, the With Development scenario enables demand to be spread across a greater number of flights.
- 4.25 Peak hour load factors will never reach 100% because airlines need to maintain a proportion of free seats on all flights, particularly during peak times, in order to accommodate those passengers with flexible tickets who require a seat on their desired flight. In the With Development scenario, it is anticipated that the airlines will be able to operate more off-peak services to match their growth in peak operations, and this further explains the difference in peak load factors between scenarios, as a greater proportion of peak services may be booked but unused, as passengers switch to a more convenient flight through the day.
- 4.26 The change in passenger numbers accessing the Airport has been calculated for the network peak hours for the weekday AM peak hour of 08:00 09:00 and for the weekday PM peak hour of 17:00 18:00. This takes into account that on average, passengers arrive 1 hour and 15 minutes prior to their flight departing from the airport if travelling on a scheduled flight, and when a flight arrives at the airport it takes on average 15 minutes for passengers to depart from the airport
- 4.27 The resultant peak hour passenger numbers accessing the Airport in 2021 and 2023 are shown in **Tables 4.5** and **4.6**.

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	AM Peak (08:00 – 09:00)			PM Peak (17:00 – 18:00)		
	Arr's	Dep's	Total	Arr's	Dep's	Total
Without Development	761	1,528	2,290	315	670	985
With Development	677	1,717	2,394	379	711	1,089
Change	-85	189	104	63	41	105

Table 4.5: 2021 Peak Hour Passenger Numbers

Table 4.5: 2023 Peak Hour Passenger Numbers

	AM Peak (08:00 – 09:00)		PM Peak (17:00 – 18:00)			
	Arr's	Dep's	Total	Arr's	Dep's	Total
Without Development	761	1,508	2,270	315	670	985
With Development	695	1,785	2,480	465	748	1,213
Change	-66	277	211	150	78	228

- 4.28 This shows that during the AM peak hour there would be a 211 increase in passengers compared to the Without Development scenario, whilst during the PM peak hour there would be a 228 increase in passengers compared to the Without Development scenario.
- 4.29 The impact of this variation in passenger numbers will be considered on the main transport modes used to access the Airport, especially in the weekday peak hours.

Staff Numbers

4.30 The ESD project will increase the number of staff employed at the Airport. The change in staff numbers is currently being calculated by York Aviation and will be assessed within the Transport Assessment.

Mode Split

Passengers

4.31 The mode split assumptions for passengers is set out in **Table 4.6**.

Table 4.6:	Mode	Split -	Passengers
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Mode	Existing	2021 / 2023
Private car parked at Airport	2.3 %	2.0 %
Dropped off by car	5.3 %	4.8 %

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Rented car	1.4 %	0.8 %
Chauffeur driven car	3.8 %	3.5 %
Minicab	16.9 %	13.0 %
Black Taxi	14.7 %	12.0 %
DLR	51.6 %	60.0 %
Bus	0.3 %	0.3 %
Transfer	2.4 %	2.3 %
Other	1.2 %	1.2 %
TOTAL	100 %	100 %

4.32 The existing mode split is the average between 2009 – 2012, as set out in Section 3. The future year mode split is considered to represent the maximum mode share for the DLR, taking into the fact that DLR mode share has not increased substantially since the Airport branch opened, and also the Airport's aspiration to maximise the use of public transport as a means of surface access. Notwithstanding this, it is still considered that it may be difficult to achieve a 60% mode share for the DLR.

Staff

4.33 The starting point for estimating the mode split for staff will be the existing mode split as collected through the staff travel surveys. However, it is anticipated that the proportion of staff travelling by sustainable modes will increase with the continued implementation of the Airport's Travel Plan.

Travel Plan

4.34 The Airport has implemented a Travel Plan. This will be reviewed and updated in the context of the ESD Project. In particular, it is proposed to revise the restriction on maintaining the existing level of staff car parking, since this will not be possible to achieve with the significant increase in staff that will arise from the ESD project and that many staff frequently work shift patterns with anti-social hours when public transport options are limited.

Construction

4.35 The construction arrangements will be set out as part of the ESD project planning submission. This will include consideration of the transportation of construction materials to / from the Airport. Options for moving materials and plant by barge (in preference to HGV's) are currently being examined.



5 POLICY CONTEXT

5.1 This section of the report considers the current and emerging planning policy guidance at National, Regional and Local level.

National Policy

The Future of Air Transport White Paper (2003) (ATWP) and Progress Report (2006)

- 5.2 The Executive summary of the ATWP states that "There is scope for other existing South East Airports, including London City, Norwich, Southampton and some smaller airports, to help meet local demand, and their further development is supported in principle, subject to relevant environmental considerations".
- 5.3 The Air Transport White Paper, in the context of planned growth of airports, seeks to reduce or minimise the impacts of airports on those who live nearby and on the natural environment. Paragraphs 4.55-4.58 state:

"Ensuring easy and reliable access for passengers, which minimises environmental, congestion and other local impacts, is a key factor in considering any proposal for new airport capacity. All such proposals must be accompanied by clear proposals on surface access which meets these criteria.

Increasing the proportion of passengers who get to airports by public transport can help to reduce road congestion and air pollution. We expect airport operators to share this objective, and to demonstrate how they will achieve it in putting forward their proposals for developing new capacity.

Airports are part of our national transport infrastructure, and need to be planned and developed in that context. The Strategic Rail Authority and (for strategic roads within England) the Highways Agency will take full account of likely future airport development, and regional and local transport strategies should do the same.

The Government expects developers to pay the costs of up-grading or enhancing road, rail or other transport networks or services where these are needed to cope with additional passengers travelling to and from expanded or growing airports. Where the scheme has a

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wider range of beneficiaries, the Government, along with the devolved administrations, the Strategic Rail Authority, the Highways Agency and local authorities, will consider the need for additional public funding through their investment programmes on a case-by-case basis. ...".

- 5.4 In paragraphs 11.9 of the ATWP it is made clear that it supports the development of smaller South East Airports subject to relevant environmental considerations.
- 5.5 The ATWP, in the context of planned growth of airports, seeks to reduce or minimise the impacts of airports on those who live nearby and on the natural environment.
- 5.6 With regards surface access, the Progress Report notes that:

"We continue to encourage airport operators to increase the use of public transport to help reduce road congestion and air pollution."

5.7 The Progress Report further notes that:

"The airport continues to be an important factor in local regeneration, business development, transport and tourism infrastructure."

National Planning Policy Framework (NPPF)

- 5.8 The National Planning Policy Framework sets out the Government's planning policies for England and how these are expected to be applied.
- 5.9 One of the 12 core land-use principles within the NPPF includes:

"[to] actively manage patterns of growth to make the fullest possible use of public transport, walking and cycling, and focus significant development in locations which are or can be made sustainable."

5.10 Section 4 of the NPPF deals with 'Promoting sustainable transport.' Paragraph 29 states that:

"the transport systems needs to be balanced in favour of sustainable transport modes, giving people a real choice about how they travel."

5.11 Paragraph 32 sets out the transport issues which should be addressed within Development Plans and decisions. These are:

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- *"the opportunities for sustainable transport modes have been taken up depending on the nature and location of the site, to reduce the need for major transport infrastructure;*
- safe and suitable access to the site can be achieved for all people; and
- improvements can be undertaken within the transport network that cost effectively limit the significant impacts of the development. Development should only be prevented or refused on transport grounds where the residual cumulative impacts of development are severe."

Draft Aviation Policy Framework (July 2012)

5.12 Paragraph 2.80 of the Draft Aviation Policy Framework states that:

"High quality, efficient and reliable road and rail access to airports contributes greatly to the experience of passengers, freight operators and people working at the airport."

5.13 Paragraph 6.9 states that:

"All proposals for airport development must be accompanied by clear surface access proposals which demonstrate how the airport will ensure easy and reliable access for passengers, increase the use of public transport by passengers to access the airport, and minimise congestion and other local impacts."

Regional Policy

Mayor's Transport Strategy (May 2010)

5.14 One of the key objectives of the Mayor's Transport Strategy (MTS) is that:

'London's transport system should excel among those of world cities, providing access to opportunities for all its people and enterprises, achieving the highest environmental standards and leading the world in its approach to tackling urban transport challenges of the 21st century.'

5.15 The MTS further recognises that:

"As the economy of east London has changed, developments such as Canary Wharf, ExCel and The O2 have increased the demand for travel across the river significantly. Many of the large new economic drivers for London are located in east London, with the majority of these

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lying north of the river, such as the Olympic Park and adjacent Stratford City development, Canary Wharf, ExCel and City airport."

5.16 With regards Airport Policy, paragraph 435 states that:

"The Mayor recognises that adequate airport capacity is critical to the continued competitiveness of London's economy. For this reason, the Mayor will consider whether optimum use is being made of existing airport infrastructure."

5.17 On surface access to airports, the MTS states the following:

"TfL has worked with airport operators through their airport transport forums to help improve surface access to airports. Continued close engagement with airport operators and local boroughs will be essential to serve the increasing numbers of air passengers and encourage a shift from private car to reduce congestion and improve surrounding air quality."

London Plan (July 2011)

5.18 Policy 6.6 of the London Plan deals with Aviation. Part B of the policy states that The Mayor:

"supports improvements of the facilities for passengers and other London airports in ways other than increasing the number of aircraft movements, particularly to optimise efficiency and sustainability, enhance the user experience and to ensure the availability of viable and attractive public transport options to access them."

5.19 It continues to state that:

"Development proposals affecting airport operations or patterns of air traffic should:

Provide access to airports by travellers and staff by sustainable means, particularly by public transport."



Local Policy

London Borough of Newham Core Strategy (January 2012)

- 5.20 London Borough Newham's Core Strategy was adopted in January 2012. It sets out to ensure that *"new development will achieve the Council's objective to make Newham a place where people will choose to live, work and stay".*
- 5.21 Policy INF 2 on Sustainable Transport within the draft Core Strategy states that:

"Major development proposals that generate or attract large numbers of trips, including higher density residential and commercial development, should be located in areas with good public transport accessibility and demonstrate the existence of, or propose new safe, attractive walking and cycling routes to public transport nodes."

5.22 It continues to state that:

"Development proposals will not be supported where they would have an unacceptable adverse impact on the capacity or environment of the highway network. Where applicable proposals must be accompanied by Transport Assessments which show the likely impacts of trip generation, and which include acceptable robust, monitored proposals to counter or minimise the potential impacts; these include 'smarter travel' plans and measures to facilitate and encourage more widespread walking, cycling and public transport use."

Summary

5.23 London City Airport is recognised as a large economic driver in east London. There is general support for its development on the grounds of encouraging economic growth in the most efficient manner. Airport operators are also encouraged to engage stakeholders to improve access to airports by sustainable modes, reducing the proportion of trips by private car. The current development proposals accord with national, regional and local transport policies. London City Airport is accessible by public transport via black taxi, DLR and bus services providing connections locally within Newham by bus and via DLR to central London and Canary Wharf.



6 IMPACT ON SUSTAINABLE MODES

DLR

Study Area

6.1 It is proposed that the impact of the planning application will be considered on 'the Airport route' of the DLR network. This comprises the section between Canning Town and London City Airport. It is estimated that 90% of Airport-related DLR passengers arrive / depart using this section of the DLR.

DLR Loadings

- 6.2 DLR have agreed to provide passenger loadings for the Airport route for the weekday AM peak hour of 08:00 09:00. This is the busiest hour of the day on the DLR network.
- 6.3 For the future years this includes the predicted increase in DLR passengers associated with planned developments in the vicinity of the Airport route.

Assessment Years

- 6.4 An assessment of the capacity of the DLR Airport route will be conducted for the With / Without Development Scenarios:
 - 2011: Baseline Year;
 - 2021: Movement Limit Year for the completed Development; and
 - 2023: Optimisation of the ESD Development and other associated improvements at the Airport.
- 6.5 The DLR loadings will be adjusted to take account of the anticipated Airport-related passengers in the With and Without Development Scenarios in the above assessment years.
- 6.6 It is noted that construction works will be completed in 2019, but this year will not be assessed in terms of surface access because passenger numbers are higher in both 2021 and 2023.

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Crowding Factors

6.7 DLR apply crowding factors as a measure of capacity on the DLR network. Crowding factors are calculated on the number of standing passengers per sqm of standing space (ppm²). Factors are categorised according to the following scale:

Crowding level key



No crowding (all passengers seated) Slight crowding (some standing) Medium crowding Heavy crowding Severe crowding Maximal crowding (very close to capacity) Overcrowding* (beyond stated crush loads)

* NB that overcrowding would more likely result in queuing on platforms instead

- 6.8 DLR consider that 'planning capacity' is reached at 3 ppm², after which there is potential for passengers to be left behind at stations. However, the actual capacity of a train is reached at 4.6 ppm². DLR reduce the amount of available standing space on the Airport route by 15% to take account passengers with luggage.
- 6.9 A crowding factor is calculated for each link in both directions on the Airport route.

Crossrail

- 6.10 The Airport anticipates that Crossrail will have a broadly neutral impact on future passenger numbers, as whilst Crossrail will improve the accessibility of Heathrow, it will also improve the accessibility of the Airport from Westminster.
- 6.11 Similarly, it is not anticipated that Crossrail will have an impact on the mode split of passenger and staff travel to the Airport. This is because there will not be a direct link to Crossrail from LCY. The nearest Crossrail station will be at Custom House.

Buses

6.12 The proportion of passengers travelling to the airport by bus is between just 0-1%. Thus, the projected increase in passengers travelling to and from the airport during the AM and PM peak hours is low in 2021 and 2023. A greater proportion of staff travel to / from the Airport by bus, with the mode share varying between 9%-10%.

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- 6.13 As there are in the order of 11 buses per hour calling at the airport during peak periods, it is not considered that the marginal increase in bus passengers in the peak hour arising from this planning application will have any impact upon the operation of these services. It is likely that this increase will be well within daily fluctuations that would occur in any event.
- 6.14 It is, therefore, not proposed to undertake any further assessment of bus capacity.

Taxis

- 6.15 The Transport Assessment will set out the difference in number of taxi passenger using both black cabs and minicabs.
- 6.16 Taxi occupancy rates have been obtained from a survey undertaken in November 2010.These are 1.32 passengers per black cabs and 1.34 for minicabs.
- 6.17 The impact of additional taxis will be considered as part of the impact on the road network.

Walking and Cycling

6.18 No changes are proposed to the walking and cycling facilities in the vicinity of the Airport. It is anticipated that the existing infrastructure is sufficient to accommodate the change in demand.



7 IMPACT ON THE ROAD NETWORK

Methodology

7.1 This section of the scoping report summarises the methodology that will be used to assess the impact on the highway network.

Traffic Assignment

7.2 Data showing the distribution of car journeys collected as part of the regular LCY passenger surveys will be used to determine the assignment of Airport-related traffic, once the additional access to the A1011 Woolwich Manor Way has been implemented.

Study Area

- 7.3 The change in daily traffic flows will be considered for the study area. The scope of the study area is shown on **Figure 4**.
- 7.4 For the purposes of further assessment of the traffic impact during peak hours, the study area for the Transport Assessment includes the following junctions:
 - Hartmann Road / Connaught Road;
 - Connaught Road / Connaught Bridge Road; and
 - Proposed Access / A1011 Woolwich Manor Way / Fishguard Way
- 7.5 Detailed capacity analyses will be undertaken at the above junctions.

Data Collection

- 7.6 In order to understand existing traffic movements on the highway network surrounding the Airport, the following set of surveys were commissioned:
 - Automatic Traffic Counters undertaken between Monday 15th November and Sunday 21st November 2010 or Tuesday 13th November and Monday 20th November 2012;
 - Weekday AM and PM peak period manual classified turning movements at the junctions of Hartmann Road / Connaught Road and the access / egress to the

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Airport forecourt on 16th November and 14th December 2010 and at Connaught Bridge / Connaught Road on 15th November 2012; and

- On 16th November and 14th December 2010, a Drop off/Pick up zone outside of the Airport to collect data on the number of passengers using cars and taxis to arrive at and depart from the Airport.
- 7.7 The scope of the study area is identical to that used to assess the impact of the 'Interim Application' which was granted consent in July 2009.

Assessment Years and Periods

- 7.8 The assessment years and scenarios to be assessed are proposed to be as follows:
 - 2011: Baseline Year;
 - 2021: Movement Limit Year for the completed Development; and
 - 2023: Optimisation of the ESD Development and other associated improvements at the Airport.
- 7.9 From the traffic surveys it has been determined that the network peak hours are as follows:
 - Weekday AM Peak 08:00 09:00
 - Weekday PM Peak 17:00 18:00

Committed Developments

- 7.10 The assessment considers the predicted trip generation of committed developments in the vicinity of the Airport, which will have a traffic impact in the study area. Committed developments are those which have been granted planning permission but which have not yet been constructed. It comprises the following:
 - Silvertown Quays;
 - Landmark Site / Siemens;
 - Royals Business Park;
 - IVAX Quays;
 - Barrier Park East;

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- Minoco Wharf; and
- Thames Road Industrial Estate (Unex Site).

Traffic Growth

7.11 Due to the congested nature of the transport network in London during peak hours, it is generally accepted that a traffic growth factor should not be applied to future year assessments. However, it is recognised that a significant amount of development is planned in the Docks areas in proximity to the Airport, which has not yet been granted planning permission. Therefore, medium rate traffic growth factors have been applied to the future year assessments of 2021 and 2023. The growth factors were calculated by adjusting a National Transport Model (NTEM) factor by a local TEMPRO factor for the London Borough of Newham. The resultant growth factors are shown in **Table 7.1**.

Table 7.1:	Peak Hour	Traffic Growth	Factors*
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	AM Peak	PM Peak
2010 - 2021	1.1570	1.1540
2010 - 2023	1.2012	1.1987
2012 - 2021	1.1455	1.1434
2012 - 2023	1.1892	1.1877

* adjusted to take account of committed developments

7.12 A traffic growth factor will not be applied separately to peak hour traffic on Hartmann Road since it is almost exclusively used by Airport traffic.

Junction Assessment

7.13 It is proposed to undertake stand-alone junction and signalised network assessments with the appropriate modelling software (e.g. ARCADY 7 and LinSig 3.1 as necessary) for the junctions outlined above.


8 SUMMARY

- 8.1 This Pre-Application Transport Scoping Report sets out the proposed approach to the Transport Assessment which will accompany the planning application for the ESD project at London City Airport.
- 8.2 Further discussions will be required with London Borough of Newham, Transport for London and DLR to further develop the proposals and demonstrate the impacts associated with the ESD project. However, this scoping report seeks specific approval for the following elements of the proposals:
 - The principle of the increase in passengers from 5.95 mppa on 107,008 scheduled movements by 2023, compared to 4.49 mppa on 87,602 scheduled movements without the ESD project.
 - The proposed design for the forecourt with regards the arrangements for buses / taxis / cars / non-motorised modes.
 - The proposed passenger and staff car parking provision increasing from 912 to 1,200 spaces.
 - The additional permanent vehicle access to be provided from the junction of the A1011 Woolwich Manor Way / Fishguard Way.
 - The renegotiation of the Airport's Travel Plan in the context of the ESD project proposals
 - The proposed scope and methodology of the assessment of the DLR network as set out in Section 6
 - The proposed scope and methodology of the assessment of the highway network as set out in Section 7

Transport for London



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Our ref: 12/2379

Emma Grayson Vectos 97 Tottenham Court Road London W1T 4TP

17 January 2013

Dear Emma

London City Airport, Eastern Stand Development - TfL's pre-application advice

Please note that these comments represent the views of Transport for London officers and are made entirely on a "without prejudice" basis. They should not be taken to represent an indication of any subsequent Mayoral decision in relation to a planning application based on the proposed scheme. These comments also do not necessarily represent the views of the Greater London Authority.

Firstly, I would take this opportunity to thank you for taking advantage of the TfL preapplication service, the aim of which is to ensure that development is successful in transport terms and in accordance with relevant London Plan policies. This letter follows the recent pre-application meeting held to discuss the development proposals

A site visit was undertaken by Melvyn Dresner on the 16 January 2013 and on 21 December 2012 the pre-planning application meeting was held with TfL and borough officers regarding the development proposals.

The meeting was attended by the following:

- Anne Crane TfL - Borough Planning
- Melvyn Dresner TfL - Borough Planning
- Liam Henderson
- Ian Hvde Emma Grayson Robert Roughan Charis Taylor Nick Hollands Nicole Harris Jane Commons Andy Meloy Peter Orchard
- TfL Docklands Light Railway LB Newham Vectos Vectos London City Airport London City Airport TfL Taxis and Private Hire TfL London River Services TfL Bus Operations TfL Bus Operations

General

The Transport Assessment (TA) report to be produced by the applicant as part of the submission should be in line with TfL's 'Transport Assessment Best Practice Guidance' document (2010):

http://www.tfl.gov.uk/assets/downloads/businessandpartners/transport-assessmentbest-practice-guidance.pdf





Should this application be granted planning permission, the developer and its representatives are reminded that this does not discharge the requirements under the Traffic Management Act 2004. Formal notifications and approval may be needed for both the permanent highway scheme and any temporary highway works required during the construction phase of the development.

The current access to the airport is via Connaught Bridge and Hartman Road. Connaught Bridge forms part of the A1020 and the Strategic Road Network (SRN) for which TfL has oversight with London Borough of Newham as highway authority. In addition to continued use of this access it is proposed to reopen the access onto Woolwich Manor Way, which forms part of the Transport for London Road Network (TLRN), which TfL is the highway authority. The re-opening of the access onto the TLRN is likely to require both permanent and temporary works. These works to the TLRN would be subject to an agreement under Section 278 of the Highways Act 1980 with TfL. It is envisaged that buses will continue to operate as currently via Connaught Bridge and Hartman Road rather than use the new access albeit that the design of the reopened access should take account of the future possible use of the Woolwich Manor Way access by buses.

Overview of development proposals

The Transport Scoping Note (12 December 2012) states the Eastern Stand Development (ESD) project forms part of planned on-going improvements at the Airport that will enhance operational efficiency, passenger service and capacity in accordance with current and future customer, airline and regulatory requirements. Such improvements aim to be broadly consistent with the long term plans, which were described in London City Airport's 2006 Master Plan, which provides an indication of London City Airport's long term plans, without planning policy status.

The current proposal includes new and upgraded aircraft stands (7 new stands and 2 upgraded ones), an extension to the taxi-lane running adjacent to the runway, a new arrivals building, reconfigured forecourt area, hotel (in outline) and related infrastructure works including re-opening of the old dock access road onto A117 Woolwich Manor Way, a new multi-storey car park.

The consultants review of facilities provided at the forecourt are as follows (with additional data on bus stands and stops added by TfL):

Facility	Existing forecourt	Proposed forecourt
Number of private car drop-off / pick-up spaces	8	48
Number of taxi pick-up spaces	1	7
Number of taxi queuing spaces in forecourt	11	13
Number of taxi queue spaces out of forecourt	143	400
Number of taxi drop-off spaces	8	10
Number of bus stops	3	2
Number of bus stands	1	1

There are three bus stops (for routes 473, 474) and a bus stand within the forecourt area. This includes a bus lay by on Hartman Road for alighting passengers and two bus stops for boarding passengers. The boarding stops provide points for common destinations. One of the boarding stops has bus cage markings whilst the other doesn't, which can cause enforcement and operational problems. The bus stand is marked as a bus stop. There are other bus stops on Newlands Road and Hartman

Road that should be assessed as they maybe use by staff at the airport. The TA should include a plan that provides the detail measurements of the existing and proposed forecourt facilities. There is a need for a bus shelter for all new or relocated stops. The stops should be designed in accord with TfL Bus Stop Accessibility Guidance, which recommends a minimum bus stop length of 37 metres, further information can be found here:

http://www.tfl.gov.uk/businessandpartners/busoperators/1236.aspx

Surface Transport implications

This is TfL's understanding of the transport implications are set below. In this case, when we refer to surface transport this includes Docklands Light Railway, bus, river, highway access including private car, taxi, private hire, coach etc. There will be increase in passenger and staff numbers at the airport within the existing cap set for annual movement of aircraft. On the basis of the data submitted for the pre application meeting there were 60,000 aircraft movements (in 2010) and this anticipated to increase to 88,000 in 2023 without the proposals and with the proposals this is set to increase to 107,000. Over the same period annual passenger numbers are expected to increase from 2.28 million per annum to 4.4 million per annum without development, whilst with development this would increase to 5.9 million passengers per annum. Therefore, compared to the 2010 base, passenger numbers will be increase by 62% without development and 114% with the proposed East Stand Development.

It also understood that due to the business nature of the airport that the proposed changes will allow more flights per hour than currently and larger aircraft. The TA will need to confirm these numbers and explain and justify to what extent TfL can rely upon these projections in planning the development of surface transport connections to the airport in the future with and without the impact of the development proposals.

The development will have implications for the Docklands Light Railway (DLR), bus and taxi operations and there will be a need to provide coach provision for the hotel as well as for the airport itself. The TA will need to demonstrate how public transport use will be encouraged and provide information with justification on future patronage arising from the development proposal.

The proposal may also increase road traffic and this has implications for the operation of the TLRN and SRN. It is proposed that this is assessed within the TA. TfL has developed a strategic model for East London and local models for the Royal Docks area. It may be necessary that the implications of these proposals are tested within local network and strategic highway models. The TA should provide information on the wider strategic impact. The applicant should be aware of the East London River Crossings and the proposals to relocate Woolwich Ferry to Gallions Reach and the provision of the Silvertown Link will have implications for local traffic levels, more details below.

The Scoping Note indicates there will be increased passengers compared to current usage with and without the proposed changes. For TfL to assess demand for additional capacity and impact we need to assess the impact with and without development against a base year for DLR, buses and the highway assessments. There is a judgement to be made and justified with evidence to assess how much predicted passenger could be accommodated without the proposed improvements to the airport and the surface transport network that serves the airport i.e. there is a risk of overestimating trend growth and underestimating growth due to Eastern Stand measures.

TfL note that the airport is busier during the week than weekends and that average day variation can be considerable. The peak assessment may need to vary per mode and should be the new peak once development trips are added to base data that is assessed. The exception would be for highway assessment when the current highway peak should be used for ease of analysis and consistency with other assessments in the area.

DLR

You propose that the impact of the development to be put forward in the planning application will be considered on 'the Airport route' of the DLR network. This comprises the section between Canning Town and London City Airport You have stated that an assessment of the capacity of the DLR Airport route will be conducted for the 'with and without' Development Scenarios:

- 2011: Baseline Year;
- 2021: Movement Limit Year for the completed Development; and
- 2023: Optimisation of the ESD Development and other associated improvements at the Airport.

TfL accepts these assessment scenarios are reasonable. However, this should also include the DLR from London City Airport to Woolwich.

TfL is concerned that the full impact on each mode is assessed based on realistic assessment of planned capacity rather than upon commercial assumptions of predicted patronage. Furthermore it should be based on the policy objective of encouraging increased public transport use. For DLR to provide additional capacity would require significant capital investment and a target of 60% (for passengers) is envisaged for assessment purposes. Therefore, if the assumed demand is lower than the implied proposed capacity then TfL would seek a cap on hourly passenger movements to enable DLR to minimise the risk of capacity problems on the DLR.

TfL were given forecasts in 2006 for airport usage and patronage that were significantly different than now being predicted. Forecasting is not an exact science and it is important to assess likely impact and the variance around that impact for public transport patronage. TfL would expect to see a high and low figure for overall passenger numbers and likely mode split for DLR passengers based on positive assumption. TfL can supply data to assist with this assessment.

There are two other sets of assumptions that TfL would challenge, unless some proof is actually provided to back them up:

- The airline policy of limiting flights to 85% capacity; and
- the assumptions that only some airlines will buy larger aeroplanes.

These are both commercial predictions rather than observations and there is no guarantee that an airline will not sell out its flights in future. Evidence from other similar airports or other sources would be useful.

With regard to the road access at Woolwich Manor Way, TfL would highlight again that King George V DLR station does not have a step-free entrance onto the Airport's land so if this station was to be included in the TA a commitment would be expected from the Airport to install a lift at this location to allow step-free access in the future from here.

Regarding the proposed mode splits; we recognise that since most staff work shifts the DLR operating hours may not support their working pattern so a low DLR mode share for staff would be expected though measures to encourage staff to use DLR would be welcome. However, for passengers (as discussed in the meeting) it is only the very first few flights of the day that cannot be reached by rail and all arrivals can be served by DLR; therefore, the mode splits shown in Table 4.6 for 2021 are not particularly hopeful of any mode shift to rail. Rather than state in paragraph 4.32 that it will be difficult to achieve a 60% DLR mode share, the Airport should implement policies to promote the use of rail and set a more challenging target in accordance with sustainable transport policies.

Forecast passenger numbers are being estimated by York Aviation outside the TA. This work should be supplied to TfL for scrutiny and comments from TfL before this is confirmed as a reasonable assessment of likely person trips. TfL will expect the assumptions about overall passenger numbers should be supported by evidence and observations. Similarly the arrival and departure patterns of passengers should be supported by evidence and be based on appropriate statistical analysis e.g. mode average rather mean average for passenger arrival time maybe appropriate.

Bus operations

TfL will seek to retain the two existing and separate bus stops that serve the Airport with at least the same kerb length. TfL would also like to retain the ability to re-use the existing bus stand, which is likely to be needed for future operational and network needs. As of writing, it is not in regular use though it is used occasionally and forms part of the current resilience planning for the bus network. TfL expect that the nature of the bus network will change due to demand elsewhere on the network with the Airport development playing a role to help facilitate improved bus links locally and provide local employment and regeneration.

TfL will expect the applicant to demonstrate that any changes to stops meets with TfL Bus Stop Accessibility Guidance and specific technical advice TfL may provide when consulted on a specific design proposal. We expect that public transport use in general and bus use in particular will be promoted by the Airport to both staff and passengers. We expect that bus use will be increasingly important for staff travel and this may require changes to the bus network. TfL will form a view once we have bus passenger forecast over a typical day related to shift patterns including hourly demand. TfL would also like information on the travel-to-work area covered by the Airport. TfL expect the TA to investigate increased use of buses.

To encourage bus use TfL expect the TA will consider three elements:

- 1. active promotion through the Travel Plan to both passengers and staff and recruiting staff within the local area and along PT routes;
- 2. provision of bus shelters at both bus stops and other supporting infrastructure/ accessibility measures; and
- 3. changes to local bus services and frequencies.

Point 1 is primary in the control of the applicant and TfL would expect to this be developed further in the submission. Points 2 and 3 will be influenced by factors on the wider network including committed development and the Crossrail station at Custom House requiring changes to local bus services as well as changes arising from the development proposal. At this stage, it is unlikely that TfL would seek to extend bus services beyond the forecourt area or runs route onto Woolwich Manor Way. However, pedestrian links to the forecourt area from other parts of the site such

as the hotel need to be considered as well as links to the existing residential area to the south. In addition TfL will seek a design for the reopened Woolwich Manor Way access to be suitable for future use by buses as this maybe desirable in the longer term

TfL have a specific interest in how the forecourt area will be managed in the future and its legibility from a drivers' perspective. The mechanism to keep bus stops and bus routes free of obstruction should be clearly set out in the TA and would likely require a legal agreement with TfL. Bus drivers may need access to facilities in the future, particularly if TfL decide to stand buses at the airport for network or operational reasons to enable better meeting of the demand from passengers and staff. The TA should provide sufficient information to allow TfL to assess the layout of the forecourt from driver's viewpoint. Bus stops in the wider area need to be assessed including pedestrian routes to them.

Finally, as part of the offsite highway modelling the impact on bus journey times should be assessed, particularly with regards to committed development.

Taxis/ Private Hire

Taxis and Private Hire Vehicles (PHV's) provide a vital service at London City Airport and we would support improvements to taxi and private hire facilities and extension of the current capacity of the taxi rank. We provide more detailed advice in a note appended to this letter (more details on the other modes can be provided on request. The key points are as follows:

- TfL welcomes the proposed increase in space for taxi operations. However, the TA will need to demonstrate that these are practicable (double ranking, remote feeder park, multiple loading). This will require contingency planning. The increase should not be at the cost of making appropriate provision for other modes – especially bus and DLR, cycling and walking.
- The demand for taxi space should be assessed including how this may vary over a typical day and over shorter periods of time to help understand the dynamics of the proposed taxi facilities and amount of space being suggested.
- There needs to be clear visibility of the taxi rank for arriving passengers exiting the terminal including a walking route that allows access to the nearside of the site by wheelchair users and those with visual impairments.
- The location of the taxi rank needs to be considered carefully from a passenger's point of view as do the queuing arrangements.
- There needs to a clear distinction between the area for taxi pick up and private hire.
- The Taxi rank needs to be operation during Airport operational hours and beyond. The rank should include a shelter. TfL can provide the shelter if the Airport makes a financial contribution through the s106 agreement. However, details will need to be agreed with the Taxi trade.
- A Taxi management plan will need to be developed and this may include provision for taxi marshals including how these marshals could be funded.

The detailed design of the taxi rank will need to be worked out in consultation with the taxi trade associations and local trade representatives and there will therefore need to

be a close collaboration between TfL Taxi and Private Hire and the consultants to ensure that the final design is sufficient for operational purposes.

River services

Currently, river buses services do operate on this part of the Thames but do not serve the area near City Airport. The nearest option for river services in the future would be at the proposed Minoco Wharf pier or if the Woolwich Ferry relocates to Gallions Reach, river services could stop at the existing pier. The local operator is as follows:

Sean Collins, Managing Director Thames Clippers Phone: 0207 001 2200 Email: sean.collins@thamesclippers.com

It is suggested that options are discussed with the operator. You would also need to consider in the TA how passengers would transfer from river services to the Airport from the nearest pier.

TfL would support the promotion of river access to the site. The development of passenger services within the docks could also considered in the TA. However, it is recognised that a service along the river and/or through the docks may not be feasible.

However, during construction use of the by water should be more viable especially for the movement of bulk material and abnormal loads.

Highway Impact

The data collection that is set out in the scoping note is broadly acceptable. TfL has supplied additional data from our VISSIM model for this area. TfL does not require at this stage that the proposed re-opened junction or other junctions be assessed in this model. However, it is available to be used if TfL identifies any wider network concerns due to this development proposal and TfL may ask for this work to be completed. We would want a comparison of link flows (and performance) between the local models and TfL area models, which include committed development listed in the scoping note plus several other sites. It should be also used to assess relative impact on each approach to Gallions Roundabout or compare to your more recent data. The VISSIM model update was most recently updated in 2012 for a residential scheme on Royal Albert Basin site and before that in 2010 in relation to Silvertown Quays. This data has been forwarded to you already.

Though TfL is asking for checks between your proposed junction models and TfL's existing VISSIM model, you need to demonstrate base validation is in line with TfL Modelling Guidelines for your stand alone junction models or local network models. For the Woolwich Manor Road junction a standalone assessment is acceptable. For junctions on Hartman Road, Connaught Road, and Connaught Bridge the interaction between junctions should be considered and modelling methodology agreed with the Borough.

The factors that influence peak vehicle generation are the following:

- the amount of car parking TfL encourages restraint;
- mode split for taxi and private hire/ other private car use TfL encourages public transport, cycling and walking – and would suggest interventions to aid these modes.

- annual/ daily and hourly pattern of arrivals and departures TfL will review the evidence supplied with the TA; and
- route choice to the airport this should be aided by the proposed re-opening of the Woolwich Manor Way access.

It is suggested that if the reopened access to the airport is included in the application that a review of highway signage is undertaken and a way finding strategy is proposed within the TA. This will be primarily focussed on vehicle routing and construction traffic. Pedestrians and cyclists may use the new access and may also be aided by new signage.

The scoping note states that provision of the reopened access improves the Airport's resilience, as well as shortening the distance travelled on the local highway network for journeys to / from the east. In particular, it will reduce the number of LCY related vehicles using the A1020 Royal Albert Way. TfL agrees this is a reasonable assumption though we will consider the impact of these proposals once an assignment of traffic to the airport has been provide with supporting evidence.

TfL suggest the accident analysis includes the link south of Gallions Roundabout to Pier Road. TfL has provided the following information for reference only.

- Silvertown Quays (SQ) Transport Assessment (2010) prepared by Halcrow including Local Cycle Review and PERS audit
- VISSIM models prepared by AECOM to take account of SQ as well as supporting review
- GEQ TA (2012), Trip Assessment and VISSIM models prepared by JMP I don't have the updated GEQ VISSIM models themselves. If you need access to these models please let me know, though it may be better if you got their changes direct from JMP.

The proposal for East London River Crossings (Gallions Ferry and Silvertown Link) will change local traffic patterns in time scales relevant to the TA. TfL may be able to supply data to help you assess this aspect or review your assessment against TfL modelling conclusions.

A new potential ferry service is proposed between Gallions Reach and Thamesmead, which could open in 2017 and replace the existing ferry service at Woolwich. One potential effect of moving the ferry service to Gallions Reach is a possible reduction in traffic flows on the roads to the south of Gallions Roundabout, including Woolwich Manor Way. However, further analysis is currently being undertaken by TfL to understand the full range of traffic implications associated with a new ferry service at Gallions Reach, including the likely impact on Gallions roundabout itself and on the wider highway network in east London. Specific data and results will be made available following the completion of this work, details of the public consultation can be found here: https://consultations.tfl.gov.uk/rivercrossings/consultation.

Cycling/ walking

The nearest part of the Cycle SuperHighway is along the A13. The Thames Path and the Capital Ring are the nearest part of the Strategic Walking Network. The Capital Ring passes through your proposed reopened junction and along Woolwich Manor Way and along the edge of Royal Albert Dock.

It is noted that for staff that walking and cycling to airport has increased over the last few years, which is a trend TfL supports. TfL has asked for developers in the area to undertake Pedestrian Environmental and Review System (PERS) audits of pedestrian routes in this area; TfL has supplied the Silvertown Quays PERS and suggests reviewing the Minoco Wharf TA with regards local junction works, cycle and walking measures and audits. It recommended that as part of the TA these audits are reviewed and potentially extended.

TfL recommends that pedestrian and cycle routes between the airport forecourt and the surrounding Strategic Road Network and residential areas are reviewed. The aim is to identify barriers to staff and others accessing the airport by cycle and foot. This work could be enhanced by interviewing staff to identify barriers to walking and cycling in this area. It would be most useful to interview those who currently walk or cycle to the airport and/or those who live within less than 1 kilometre for walkers (and 5 kilometres for cyclists) who choose to drive.

TfL is developing proposals to improve cycle facilities on Woolwich Manor Way within the vicinity of the re-opened access. TfL may request a contribution to aid delivery of these measures. It is also noted that LB Newham wishes to encourage cycling in the local area which includes improvements along North Woolwich Road and improved pedestrian wayfinding whether these measures are relevant to employees, passengers and others accessing the airport should be assessed in the TA.

TfL would expect the TA to include a draft Delivery and Servicing Plan for the airport. The TA should provide detail about current delivery and servicing arrangements, proposed changes and how this accords with best practice published by TfL and others, please see this link:

http://www.tfl.gov.uk/microsites/freight/delivery_servicing_plans.aspx and here: http://www.fors-online.org.uk/

Travel Plan

TfL would expect an updated Travel Plan to be provided. This should set measures to encourage mode shift from car use to other modes. The TA should set out targets and measures. There should be baseline mode of travel assessment as well as targets for 1 year, 3 years and 5 years. There need to be measures to discourage car use as well as positive measures to encourage public transport use, walking and cycling.

TfL guidance on Travel Plan can be found here: <u>http://www.lscp.org.uk/newwaytoplan/</u>

Phasing and construction

A Construction Logistics Plan (CLP) will be required, and while this should be secured by condition or S106, the TA should still contain some information on how construction impacts are intended to be dealt with, in order to minimise the potential impact on the surrounding highway network. A CLP should include the cumulative impacts of construction traffic, likely construction trips generated, and mitigation proposed such as use of water especially to move bulky and abnormal loads. Details should include; site access arrangements, booking systems, construction phasing, vehicular routes and scope for load consolidation or modal shift to water use in order to reduce the total number of road trips generated.

Specific TfL advice can be found here: http://www.tfl.gov.uk/microsites/freight/construction_logistics_plans.aspx

S106 Contributions and Community Infrastructure Levy (CIL)

TfL would seek provisions within a S.106 agreement to both support projected demand for DLR and bus use arising

Once the Transport Assessment has been further advanced and has assessed the likely impacts of the proposals on the transport network, other detailed mitigation measures can then be further discussed and subsequently agreed with TfL and LB Newham.

In accordance with Policy 8.3 of the London Plan, the Mayor of London has introduced a London-wide Community Infrastructure Levy (CIL) that is paid by most new development in Greater London. Three charging bands with variable rates based on the per square metre net increase of floor space apply, in LB Newham the charge is £20 per square metre of development (indexed). More details are available via the GLA website www.london.gov.uk.

We would expect a clear statement, in the form of 'heads of terms', showing the transport related s106 expected to be paid and for what, to be included in the application material.

Yours sincerely

Lee Villions

Alex Williams **Director of Borough Planning** Email: <u>Alexwilliams@tfl.gov.uk</u> Direct Line: 020 7126 4284

Appendix A - Taxis/ Private Hire

Taxis and Private Hire Vehicles (PHVs) provide a vital service at London City Airport and we would support improvements to taxi and private hire facilities and extension of the current spaces of the taxi rank.

The taxi rank that is currently at London City Airport works relatively well and has a capacity for approximately 140 taxis. The improvements planned for the airport would lead to an increase in taxi passengers and we therefore welcome the extension of the taxi rank to 400 spaces. However, this would be provided through a feeder park located to the east on Hartman Road. We would need to see the detailed design for this taxi feeder and the route from the feeder park to the main rank to be able to assess it. We would also need to see detailed proposals of how the taxis will feed from the feeder rank to the main rank. It looks like there will be no direct sight line from the feeder rank to the main rank and therefore some sort of call up feeder system such as monitors will be required. We would need more details about how this would work and who would be maintaining the system. We have call up systems elsewhere which can break down from time to time and therefore an emergency plan would be needed in case this happens as the rank will not be operational if it breaks down and there is no contingency in place. We would also need confirmation of what other facilities would be at the feeder rank such as toilets for the drivers and if these are provided, who will be maintaining them.

All taxis are fitted with wheelchair ramps and other accessibility features which can only be deployed on the nearside so the taxi rank will need to be situated on the near side as it is currently to allow for wheelchair access. There also needs to be a clear walking route from the exit of the airport to the taxi rank for disabled customers, customers with heavy luggage, etc.

The plans show the proposed taxi rank using double ranking of taxis. This can work and works at other locations, but we would need to see more detailed designs to be able to assess this. There seems to be an area for car hire very close to the taxi rank and if the taxi rank gets busy this would likely be difficult to access for people hiring a car and there may also be issues with them being able to get out of this area, so this would not be advisable.

The taxi rank would need to operate during airport and beyond as it currently does and would need to have a shelter and a taxi pole to protect the customers waiting for a taxi. The design of the taxi shelter should be discussed directly with Taxi and Private Hire to ensure that it is adequate.

There is no detailed design of the queuing system for passengers waiting at the proposed taxi rank and we would need to see a more detailed design of the queuing system to be able to assess it. There are 7 spaces proposed that can be used for pick up on the station forecourt and the design would need to allow multiple loading at these 7 spaces. There would also need to be a clear exit point at the side for drivers to move away once they have picked up their passengers to avoid possible hold ups by taxis in front of them taking longer to load. The 7 bays would need to be clearly marked out with numbers both on the floor and on poles next to the rank and suitable signs to customers informing them to move to the first available taxi. During peak hours elsewhere stations, we have taxi marshals directing customers to their taxis and directing drivers to move forward. This ensures that the flow of both passengers and drivers at busy times is maintained and passengers board quickly and the rank maintains a steady flow of available taxis. We would not have the funding for this but

further discussions could be had with the airport on whether funding for a marshal at peak times would be available.

The current taxi rank is situated at the exit of the airports arrivals terminal and this is an ideal location for the taxi rank as it needs to be located in a prominent position for passengers to see as they exit the building. The proposed taxi rank is located slightly further afield to the current taxi rank and my concern is that this would be too far from the exit and there would not be a clear sight line to the head of the rank as customers exit the station. We would therefore need to see a clear pedestrian route from the arrivals to the taxi rank in order to be able to properly assess if this would be acceptable as judging from the current plans it does not look like the taxi rank would be immediately apparent for customers leaving the airport. It also looks like it may be over shadowed slightly by the other pick up/drop off points and the taxi rank needs to be one of the first things that customers see upon exiting the terminal. The drop off point for taxis looks as though it has a much clearer sight line for passengers exiting the arrivals concourse, although it is slightly further back from the doors than the current one. This was discussed as being necessary from an anti terrorist perspective but if it could be moved further forward to the doors then this would be preferable. It may be that we would need to tweak the design so that some taxis are able to rank in this drop off area as the sight lines are better from the exit of the building.

The area where taxis currently drop off caters for all vehicles including private hire vehicles (PHV), taxis and private vehicles. The suggestion on the plans is that the new drop off area is provided for taxis only. This may be difficult to enforce It is essential to ensure that PHVs do not use the area to 'illegally rank up' outside the airport arrivals terminal as PHVs are not allowed to use taxi ranks and must be pre booked. A taxi management plan in terms of how this and the taxi rank will be managed would be useful so that we can ensure that we are confident of the plans that will be put in place. Additionally, this is proposed to be for 10 taxis. Could the consultants confirm how they arrived at this figure to ensure it will provide enough capacity? The dropping off area for taxis will also need to be located on the nearside for wheelchair access and with a clear walking route from the drop off area to the departures terminal.

The proposed hotel itself may require a standalone taxi rank and PHV facilities and this would need to be discussed further with TfL Taxi and Private Hire.

PHVs also provide a vital service but due to their licensing conditions they have different needs to taxis. The area for PHV drop off and pick up also needs to include a clear, short and easy pedestrian route for disabled passengers and passengers with luggage, etc. PHVs are not allowed to pick up passengers from a taxi rank and must be pre-booked. The area for picking up and setting down for PHVs must therefore be clearly distinguishable from the taxi rank so that waiting cars do not give the impression to passengers less familiar with these laws that the PHVs are 'ranking up' and can accept a hiring without being pre booked. This will help to guard against illegal touting which takes place at various locations in London.

The detailed design of the taxi rank and will need to be worked out in consultation with the taxi trade associations and local trade representatives and there will therefore need to be a close collaboration between TfL Taxi and Private Hire and the consultants to ensure that the final design is sufficient for operational purposes.

APPENDIX B

Personal Injury Accident Data



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Page: 1 of 1 (summary)

London City Airport Area - personal injury collisions - 5 years to 30 September 2012 (provisional)

Summary of Accidents Selected Site Reference and Description (zero accident counts shown in bold) **Date Period** Accidents 60 MTS TO SEP-2012 44

SC01 GIS AREA London City Airport Area (P)

The description of how the accident occurred and the contributory factors are the reporting officer's opinion at the time of reporting and may not be the result of extensive investigation

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London City Airport Area - personal injury collisions - 5 years to 30 September 2012 (provisional)

SC01 GIS AREA Londo	on City Airport Area	a (P)							60 MT	IS TO SEP-2012 S	ORTED BY DATE
	1	2	3		4	5	6	7	8	9	10
Accident Reference	0107KF68059	0107KF68055	0107KF68	581 01	107KF68658	0108KF69651	0108KF69912	0108KF74127	0108KF73049	0108KF73473	0108KF73080
Day	SATURDAY	TUESDAY	TUESDAY	′ т⊦	HURSDAY	FRIDAY	FRIDAY	MONDAY	WEDNESDAY	THURSDAY	MONDAY
Date	17/11/2007	27/11/2007	04/12/200	7 27	7/12/2007	08/02/2008	08/02/2008	26/05/2008	04/06/2008	12/06/2008	16/06/2008
Time	09:30	19:09	19:36	14	4:50	21:25	22:02	15:00	21:00	15:18	22:49
Light Conditions	LIGHT	DARK	DARK	LIC	IGHT	DARK	LIGHT	LIGHT	LIGHT	LIGHT	DARK
Road Surface	WET	WET	DRY	DF	RY	DRY	DRY	DRY	DRY	WET	DRY
Severity	SLIGHT	SLIGHT	SLIGHT	SL	LIGHT	SLIGHT	SLIGHT	SLIGHT	SLIGHT	SLIGHT	SLIGHT
Conflict											
Pedestrian Location									0	0	
Contributory	405 V004 D	500 1/004 4	400 1/00				405 V000 D	405 V000 A		0001.0	504 1/004 4
Factors	405 V001 B 408 V002 B	605 V001 A	109 000	1 B 60 30	02 V001 A 08 V002 A	405 V002 A 406 V002 A	405 V002 B	405 V002 A 406 V002 A	601 V001 A	805 C001 A 802 C001 A	501 V001 A 602 V001 A
(* denotes pre 2005)				60	04 V002 A	602 V002 B		308 V002 A		405 V001 A	
				60	03 V002 A						
Easting/Northing	542720 180010	541660 18032	0 541660 18	80400 54	41800 180380	542620 180030	543000 179950	543400 179920	542970 179930	542150 180100	542750 180000
Pedestrian	10	23 %						Site Diagram			
Wet	9	20 %									
Dark	13	30 %	_								
			_					IN			
			_								
Severity / Months To	12 09/2008	12 09/2009	12 09/2010	12 09/20	011 12 09/20	12 Total	Pct				
Eatal	0	0	0	0	0	0	0.0%				
Serious	1	0	1	2	0	4	91%				
Slight	13	6	8	10	3	40 9	0.9 %				
Total	14	6	9	12	3	44					
Pr	at 31.8 %	13.6 %	20.5 %	27.3 %	6.8 %						

Page: 2 of 5

London City Airport Area - personal injury collisions - 5 years to 30 September 2012 (provisional)

SC01 GIS AREA London City Airport Area (P) 60 MTS TO SEP-2012 SORTED BY DATE										
	11	12	13	14	15	16	17	18	19	20
Accident Reference	0108KF74166	0108KF74727	0108KF74783	0108KF75155	0108KF75853	0108KF75830	0109KF60074	0109KF60328	0109KF60404	0109KF60511
Day	SUNDAY	THURSDAY	FRIDAY	SUNDAY	TUESDAY	WEDNESDAY	SUNDAY	FRIDAY	SUNDAY	MONDAY
Date	03/08/2008	11/09/2008	19/09/2008	28/09/2008	04/11/2008	19/11/2008	08/03/2009	19/06/2009	19/07/2009	07/09/2009
Time	17:44	07:15	18:19	18:27	15:30	06:21	17:01	14:10	17:15	06:45
Light Conditions	LIGHT	LIGHT	LIGHT	LIGHT	LIGHT	DARK	LIGHT	LIGHT	LIGHT	LIGHT
Road Surface	WET	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Severity	SLIGHT	SLIGHT	SLIGHT	SERIOUS	SLIGHT	SLIGHT	SLIGHT	SLIGHT	SLIGHT	SLIGHT
Conflict										
Pedestrian Location				0						
Contributory	307 V002 B	602 V002 B	405 V001 B	605 V001 B	405 V001 A	405 V002 A	405 V003 A	302 V001 A	602 V001 A	307 V002 A
(* denotes pre 2005)	408 V001 B 308 V002 B	408 V001 A 308 V002 B	302 V001 B	802 C001 A	406 V001 A		406 V003 A	405 V001 A	607 V001 A	410 V002 A
	406 V002 B	607 V001 A					409 V002 A	307 V002 B		002 0002 A
Easting/Northing	543000 179950	543803 180576	542340 180240	542090 180120	542570 180010	542200 180080	542320 180230	541900 180370	542070 180320	541620 180190

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London City Airport Area - personal injury collisions - 5 years to 30 September 2012 (provisional)

C01 GIS AREA London City Airport Area (P) 60 MTS TO SEP-2012 SORTED BY DATE										
	21	22	23	24	25	26	27	28	29	30
Accident Reference	0109KF60727	0110KF60132	0110KF60144	0110KF60262	0110KF60321	0110TB00199	0110KF60346	0110KF60367	0110KF60399	0110KF60655
Day	SUNDAY	WEDNESDAY	MONDAY	SATURDAY	TUESDAY	TUESDAY	SUNDAY	THURSDAY	WEDNESDAY	MONDAY
Date	13/12/2009	03/03/2010	08/03/2010	08/05/2010	18/05/2010	18/05/2010	13/06/2010	24/06/2010	30/06/2010	18/10/2010
Time	00:30	11:46	16:10	16:48	18:35	15:38	15:45	10:50	18:30	13:18
Light Conditions	DARK	LIGHT	LIGHT	LIGHT	LIGHT	LIGHT	LIGHT	LIGHT	LIGHT	LIGHT
Road Surface	DRY	DRY	DRY	WET	DRY	DRY	DRY	DRY	DRY	DRY
Severity	SLIGHT	SLIGHT	SLIGHT	SLIGHT	SLIGHT	SERIOUS	SLIGHT	SLIGHT	SLIGHT	SERIOUS
Conflict										
Pedestrian Location	0	0								
Contributory	806 C001 A	405 V001 A	308 V001 A	405 V002 A	108 V001 A	410 V001 A	407 V002 A	999 C001 A	308 V002 A	410 V001 A
Factors (* denotes pre 2005)	803 C001 A	602 V001 A		406 V002 A	108 V002 A		403 V002 A		406 V002 A	505 V001 A
	407 V001 B	802 C001 B		602 V002 B 404 V001 B	701 V001 A 701 V002 A				405 V002 A	
Easting/Northing	543310 179930	542510 180170	541804 180379	543740 180040	541970 180290	541863 180272	542410 180080	541904 180294	543320 179910	542820 179980

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London City Airport Area - personal injury collisions - 5 years to 30 September 2012 (provisional)

SC01 GIS AREA London City Airport Area (P) 60 MTS TO SEP-2012 SORTED BY DATE										ORTED BY DATE
	31	32	33	34	35	36	37	38	39	40
Accident Reference	0110KF60748	0110KF60798	0110KF60829	0110KF60830	0111KF60051	0111KF60077	0111KF60131	0111KF60288	0111KF60440	0111KF60503
Day	WEDNESDAY	MONDAY	WEDNESDAY	TUESDAY	THURSDAY	SATURDAY	THURSDAY	THURSDAY	WEDNESDAY	WEDNESDAY
Date	17/11/2010	29/11/2010	15/12/2010	28/12/2010	17/02/2011	05/03/2011	17/03/2011	09/06/2011	13/07/2011	07/09/2011
Time	06:55	06:50	00:50	15:24	20:20	16:30	21:14	15:03	18:33	05:30
Light Conditions	LIGHT	DARK	DARK	LIGHT	DARK	DARK	DARK	LIGHT	LIGHT	DARK
Road Surface	WET	DRY	WET	WET	DRY	DRY	DRY	DRY	DRY	DRY
Severity	SLIGHT	SLIGHT	SLIGHT	SERIOUS	SLIGHT	SLIGHT	SLIGHT	SLIGHT	SLIGHT	SLIGHT
Conflict										
Pedestrian Location	Х				0			0	0	
Contributory	801 C001 A	405 V002 A	405 V002 A	405 V001 A	410 V001 A	405 V002 A	405 V002 A	407 V001 A	802 C001 A	405 V001 A
(* denotes pre 2005)	802 C001 A	602 V002 A	602 V002 A	602 V001 A	602 V001 A	602 V002 A	602 V002 A	405 V001 A	808 C001 A	302 V001 A
(4610100 pro 2000)	808 C001 A 701 V001 A	407 V002 A	307 V002 A 601 V002 B	302 V001 B			407 V002 A	802 C001 A		602 V001 A
	405 V001 A									
Easting/Northing	542070 180120	541630 180190	542480 180050	543670 180000	542870 179970	543820 180090	543820 180080	543300 179910	542020 180320	542236 180281

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SC01 GIS AREA Lond	on City Airport Area	a (P)		
	41	42	43	44
Accident Reference	0111KF60513	0112KF60371	0112KF60360	0112KF60558
Day	SATURDAY	TUESDAY	FRIDAY	SATURDAY
Date	24/09/2011	03/07/2012	06/07/2012	29/09/2012
Time	12:55	12:10	09:48	03:15
Light Conditions	LIGHT	LIGHT	LIGHT	DARK
Road Surface	DRY	DRY	WET	DRY
Severity	SLIGHT	SLIGHT	SLIGHT	SLIGHT
Conflict				
De de striere la section				
Pedestrian Location	0			
Contributory	405 V001 A	406 V002 B	405 V002 B	602 V001 B
(* denotes pre 2005)	802 C001 A	406 VUUTA	400 V002 B 410 V002 B	003 0001 B
	808 C001 A			
Easting/Northing	542356 180070	542320 180290	543670 180000	541650 180310

Page: 1 of 1 (summary)

London City Airport Area - personal injury collisions - 5 years to 30 September 2012 (provisional)

Summary of Accidents Selected		
Site Reference and Description (zero accident counts shown in bold)	Date Period	Accidents
SC01 GIS AREA London City Airport Area (P)	60 MTS TO SEP-2012	44

The description of how the accident occurred and the contributory factors are the reporting officer's opinion at the time of reporting and may not be the result of extensive investigation

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SC01 GIS AREA London City Airport Area (P)		60 MTS TO SEP-20	12 SORTED BY DATE
1 0107KF68059 SAT 17/11/07 09:30 LIGHT ALBERT ROAD 43M W J/W WINIFRED AVENUE		17 LINK 7-12	542720 / 180010
POLICE - AT SCENE ROAD-WET WEATHER-UNKNOWN SINGLE CWY NO JUN IN 20M	NO XING FACILITY IN S	50M	
V1 BEGAN PULL AWAY FROM THE VERGE AND PROCEEDED TO CARRY OUT A U TURN. DUE TO PARKEI TO STOP IN TIME.	D CARS AND THE WET SUREFACE OF TH	HE ROAD FROM THE RAIN	V2 WAS UNABLE
CASUALTY 001 (001) (55 Yrs - F E162) SLIGHT DRIVER/RIDER			
CASUALTY 002 (002) (21 Yrs - M E161) SLIGHT DRIVER/RIDER			
VEHICLE 001 (000) CAR (55 Yrs - F E162) GOING AHEAD OTHER	W TO E		
BT - NOT REQUESTED	O/S HIT FIRST		
VEHICLE 002 (001) CAR (21 Yrs - M E161) GOING AHEAD OTHER	W TO E		
BT - NEGATIVE SKIDDED	FRONT HIT FIRST		
V001 B 405 (FAILED TO LOOK PROPERLY) V002 B 4	08 (SUDDEN BRAKING)		
2 0107KF68055 TUE 27/11/07 19:09 DARK CONNAUGHT BRIDGE 65M S J/W HART ROAD		17 LINK 3-6	541660 / 180320
POLICE - AT SCENE ROAD-WET WEATHER-FINE DUAL CWY NO JUN IN 20M	NO XING FACILITY IN S	50M	
DRIVER OF VEHICLE 1 FELL ASLEEP AT THE WHEEL AND LOST CONTROL, VEHICLE 1 SWANG INTO N/S	LANE AND COLLIDED WITH VEHICLE 2.		
CASUALTY 001 (001) (27 Yrs - F E162) SLIGHT DRIVER/RIDER			
VEHICLE 001 (002) CAR (27 Yrs - F E162) GOING AHEAD OTHER	N TO S		
BT - NEGATIVE	N/S HIT FIRST		
VEHICLE 002 (000) BUS/COACH (42 Yrs - M RM53) GOING AHEAD OTHER	N TO S JNY PART OF WORK		
BT - NEGATIVE	O/S HIT FIRST		
V001 A 503 (FATIGUE) V001 A 6	05 (INEXPERIENCED OR LEARNER DRIV	'ER/RIDER)	
3 0107KF68581 TUE 04/12/07 19:36 DARK CONNAUGHT BRIDGE J/W AIRPORT ROUNDABOUT		17 NODE 6	541660 / 180400
POLICE - AT SCENE ROAD-DRY WEATHER-UNKNOWN SINGLE CWY ROUNDABOUT GIV	VE WAY/UNCONT NO XING FACILITY IN S	50M	
		OTHER OBJEC	T IN CWY
VEHICLE HIT AN OBJECT ON THE ROAD CAUSING THE VEHICLE TO LOSE CONTROL, HE THEN SLID ALC	NG THE ROAD.		
CASUALTY 001 (001) (29 Yrs - M E162) SLIGHT DRIVER/RIDER			
VEHICLE 001 (000) M/C > 500CC (29 Yrs - M E162) GOING AHEAD OTHER	N TO S		
BT - NOT REQUESTED SKIDDED			
HIT OTH OBJECT			
V001 B 109 (ANIMAL OR OBJECT IN CARRIAGEWAY)			

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SC01 GIS AREA London City Airport Area (P)		60 MTS TO SEP-2012 SORTED BY DATE
4 0107KF68658 THU 27/12/07 14:50 LIGHT CONNAUGHT ROAD J/W HAR	TMANN ROAD	17 NODE 678 541800 / 180380
POLICE - AT SCENE ROAD-DRY WEATHER-FINE SINGLE CW	Y T/STAG JUN AUTO SIG PEDN PHASE AT ATS	
DRIVER 2 WAS TRAVELLING SLOWLY AND MAY HAVE MISTAKEN HER ATS AS	RED, EITHER SHE STOPPED OR SLOWED DOWN AND THE RESULT	WAS THAT V1 HIT V2 FROM BEHIND.
CASUALTY 001 (002) (35 Yrs - F SE26) SLIGHT DRIVER/RIDER		
CASUALTY 002 (001) (10 Yrs - M SE12) SLIGHT PASSENGER	BACK SEAT	
VEHICLE 001 (002) TAXI (58 Yrs - M CM22) BT - NEGATIVE	GOING AHEAD RIGHT BEND E TO N JNY PART OF WORK FRONT HIT FIRST	ENTERING MAIN RD
VEHICLE 002 (000) CAR (35 Yrs - F SE26) BT - NEGATIVE	GOING AHEAD RIGHT BEND E TO N BACK HIT FIRST	ENTERING MAIN RD
V001 A 602 (CARELESS/RECKLESS/IN A HURRY)	V002 A 308 (FOLLOWING TOO CLOSE)	
V002 A 604 (DRIVING TOO SLOW FOR CONDITIONS OR SLOW VEH (EG TRA	CTOR)) V002 A 603 (NERVOUS/UNCERTAIN/ PANIC)	
5 0108KF69651 FRI 08/02/08 21:25 DARK ALBERT ROAD J/W KENNARD) STREET	17 LINK 7-12 542620 / 180030
POLICE - AT SCENE ROAD-DRY WEATHER-FINE SINGLE CW	Y T/STAG JUN GIVE WAY/UNCONT NO XING FACILITY IN 5	OM
CARB - INJURY - RTA - 2 VEHICLES - V1 TRAVELLING WEST HIT IN REAR FARS	SIDE BY V2 DRIVER FTS	
CASUALTY 001 (001) (53 Yrs - M IG11) SLIGHT DRIVER/RIDER		
CASUALTY 002 (001) (50 Yrs - F IG11) SLIGHT PASSENGER	FRONT SEAT	
VEHICLE 001 (000) CAR (53 Yrs - M IG11)	GOING AHEAD OTHER E TO W	JCT MID
BT - NOT REQUESTED	BACK HIT FIRST	
VEHICLE 002 (001) OTH MOT VEH (? Yrs - U)	GOING AHEAD OTHER E TO W	JCT MID
BT - DRV NOT CONTACTED	FRONT HIT FIRST	
V002 A 405 (FAILED TO LOOK PROPERLY)V002 B 602 (CARELESS/RECKLESS/IN A HURRY)	V002 A 406 (FAILED TO JUDGE OTHER PERSON'S	PATH OR SPEED)

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London City Airport Area - personal injury collisions - 5 years to 30 September 2012 (provisional)

SC01 GIS AREA London City Airport Area (P)		60 MTS TO SEP-2	012 SORTED BY DATE
6 0108KF69912 FRI 08/02/08 22:02 LIGHT ALBERT ROAD E16 141M E J/	W FERNHILL STREET	17 LINK 7-12	543000 / 179950
POLICE - AT SCENE ROAD-DRY WEATHER-FINE SINGLE CW	Y NO JUN IN 20M	NO XING FACILITY IN 50M	
CASUALIT 001 (001) (22 TIS-IM E00W) SLIGHT DRIVER/RIDER			
BT - NEGATIVE	GOING AHEAD OTHER	FRONT HIT FIRST	
VEHICLE 002 (001) CAR (? Yrs - U E163) BT - DRV NOT CONTACTED	GOING AHEAD OTHER	E TO W FRONT HIT FIRST	
V002 B 405 (FAILED TO LOOK PROPERLY)			
7 0108KF74127 MON 26/05/08 15:00 LIGHT ALBERT ROAD, LONDON 75M	E J/W PIER ROAD	17 LINK 12-27	543400 / 179920
POLICE - OVER COU ROAD-DRYWEATHER-UNKNOWNSINGLE CWYVEH1 WAS SLOWING DUE TO TRAFFIC AND WAS HIT FROM BEHIND BY VEH2	Y NO JUN IN 20M	NO XING FACILITY IN 50M	
CASUALTY 001 (001) (22 Yrs - M E162) SLIGHT DRIVER/RIDER CASUALTY 002 (001) (? Yrs - M) SLIGHT PASSENGER	FRONT SEAT		
VEHICLE 001 (002) CAR (22 Yrs - M E162) BT - DRV NOT CONTACTED	SLOWING OR STOPPING	W TO E BACK HIT FIRST	
VEHICLE 002 (001) CAR (? Yrs - M BR34) BT - DRV NOT CONTACTED	GOING AHEAD OTHER	W TO E FRONT HIT FIRST	
V002 A 405 (FAILED TO LOOK PROPERLY) V002 A 308 (FOLLOWING TOO CLOSE)	V002 A 406	(FAILED TO JUDGE OTHER PERSON'S PATH OR SPEED)	
8 0108KF73049 WED 04/06/08 21:00 LIGHT FACTORY ROAD E16 J/W HEN	VELEY ROAD E16	17 CELL 542500/179500	542970 / 179930
POLICE - AT SCENEROAD-DRYWEATHER-FINESINGLE CWYV1 ENTERED CLOSE, DROVE DELIBERALTY AT PED, THEN FTS	Y T/STAG JUN GIVE	WAY/UNCONT NO XING FACILITY IN 50M	
CASUALTY 001 (001) (34 Yrs - M DA11) SLIGHT PEDESTRIAN	IN ROAD - NOT CROSSING	STANDING	
VEHICLE 001 (000) CAR (? Yrs - M) BT - DRV NOT CONTACTED	GOING AHEAD OTHER	E TO W JCT AF FRONT HIT FIRST	qc

V001 A 601 (AGGRESSIVE DRIVING)

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SC01 GIS AREA London City Airport Area (P) 60 MTS TO SEP-201	SORTED BY DATE
9 0108KF73473 THU 12/06/08 15:18 LIGHT ALBERT ROAD E16 J/W FERNHILL STREET E16 17 LINK 7-12	542150 / 180100
POLICE - AT SCENE ROAD-WET WEATHER-FINE SINGLE CWY T/STAG JUN GIVE WAY/UNCONT ZEBRA	
CHILD RAN IN AND OUT OF TRAFFIC, VEHICLE DIDN'T ACTUALLY HIT CHILD, CHILD FELL OVER WHILST RUNNING	
CASUALTY 001 (001) (4 Yrs - M E162) SLIGHT PEDESTRIAN IN CENTRE OF CARRIAGEWAY UNKNOWN IN RD NOT CROSSING MSK	
VEHICLE 001 (000) CAR (22 Yrs - F HA30) GOING AHEAD OTHER W TO E JCT APP	
BT - NEGATIVE SKIDDED DID NOT IMPACT	
C001 A805 (DANGEROUS ACTION IN CARRIAGEWAY (EG PLAYING))C001 A802 (FAILED TO LOOK PROPERLY)V001 A405 (FAILED TO LOOK PROPERLY)C001 A802 (FAILED TO LOOK PROPERLY)	
10 0108KF73080 MON 16/06/08 22:49 DARK WINIFRED STREET J/W ALBERT ROAD 17 LINK 7-12	542750 / 180000
POLICE - AT SCENE_ROAD-DRY WEATHER-FINE SINGLE CWY T/STAG JUN GIVE WAY/UNCONT_NO XING FACILITY IN 50M	
VEH1 APPARENTLY HAD A TYRE BLOW OUT AND STRUCK A PARKED VEHICLE. DRIVER 1 WAS ARRESTED FOR DRINK DRIVING	
CASUALTY 001 (001) (50 Yrs - M DY10) SLIGHT DRIVER/RIDER	
VEHICLE 001 (002) CAR (50 Yrs - M DY10) GOING AHEAD OTHER W TO E JCT APP	
BT - POSITIVE FRONT HIT FIRST	
LEFT CWY NEARSIDE HIT PARKED VEH HIT OTH OBJECT	
BT - NOT REQUESTED PARKED FIOP SCI APP	
V001 A 501 (IMPAIRED BY ALCOHOL) V001 A 602 (CARELESS/RECKLESS/IN A HURRY)	
11 0108KE74166 SUN 03/08/08 17:44 LIGHT ALBERT ROAD E16 132M E J/W FERNHILL STREET 17 LINK 7-12	543000 / 179950
POLICE - OVER COU ROAD-WET RAINING SINGLE CWY NO JUN IN 20M NO XING FACILITY IN 50M	
SELF REPORT - RTA - INJURY - 2 VEHICLES - ONE CAR STOPED TO TURN INTO CHURCH AND ANOTHER CAR HIT BEHIND HIT REAR OF CAR.	
CASUALTY 001 (001) (42 Yrs - M E161) SLIGHT DRIVER/RIDER	
CASUALTY 002 (001) (? Yrs - M E161) SLIGHT PASSENGER FRONT SEAT	
VEHICLE 001 (000) CAR (42 Yrs - M E161) TURNING RIGHT E TO N	
BT - NOT REQUESTED BACK HIT FIRST	
VEHICLE 002 (001) CAR (? Yrs - M E162) GOING AHEAD OTHER E TO W	
BT - NOT REQUESTED FRONT HIT FIRST	
V002 B 307 (TRAVELLING TOO FAST FOR CONDITIONS) V001 B 408 (SUDDEN BRAKING)	
V002 B 308 (FOLLOWING TOO CLOSE) V002 B 406 (FAILED TO JUDGE OTHER PERSON'S PATH OR SPEED)	

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SC01 GIS AREA London City A	irport Area (P)			60 MTS TO SEP-2012	SORTED BY DATE
12 0108KF74727 THU 11/09	/08 07:15 LIGHT WOOLWICH MANOR WAY E16	297M S J/W ALBERT WAY	17	LINK 12-27	543803 / 180576
POLICE - AT SCENE ROAD-D	RY WEATHER-FINE SINGLE CWY	Y NO JUN IN 20M	NO XING FACILITY IN 50M		
V1 BORROWED AND DRIVER	UNFAMILIAR WITH CAR,V2 HIT V1 AT BEHIND AS	EITHER TO CLOSE OR SPEEI	DING		
CASUALTY 001 (002) (39 Yrs	- M E162) SLIGHT DRIVER/RIDER				
VEHICLE 001 (002) CAR	(45 Yrs - F E162)	SLOWING OR STOPPING	S TO N		
BT - N	EGATIVE		BACK HIT FIRST		
VEHICLE 002 (001) CAR	(39 Yrs - M E162)	GOING AHEAD OTHER	S TO N JNY PART OF WORK		
BT - N	OT PROVD (MEDCL REASONS)		FRONT HIT FIRST		
V002 B 602 (CARELESS/REC	KLESS/IN A HURRY)	V001 A 408	(SUDDEN BRAKING)		
V002 B 308 (FOLLOWING TO	DO CLOSE)	V001 A 607	(UNFAMILIAR WITH MODEL OF VEHICLE)		
13 0108KF74783 FRI 19/09/	08 18:19 LIGHT HARTMAN ROAD E16 J/W		17	CELL 542000/180000	542340 / 180240
POLICE - AT SCENE ROAD-D	RY WEATHER-FINE SINGLE CWY	T/STAG JUN STOP	SIGN NO XING FACILITY IN 50M		
CARB - RTA- C AR LEAVING D	ROP OFF ZONE O/S MAIN TERMINAL LONDON C	TY AIRPORT AT JUNCTION JU	IST PAST ZEBRA CROSSING COLLIDES IN	NTO A TAXI.	
CASUALTY 001 (002) (? Yrs	M RM11) SLIGHT DRIVER/RIDER				
VEHICLE 001 (002) TAXI	(35 Yrs - M SW11)	GOING AHEAD OTHER	N TO W	JCT APP	
BT - N	EGATIVE		N/S HIT FIRST		
VEHICLE 002 (001) CAR	(? Yrs - M RM11)	GOING AHEAD OTHER	W TO E	JCT MID	
BT - N	OT PROVD (MEDCL REASONS)		FRONT HIT FIRST		
V001 B 405 (FAILED TO LOC	K PROPERLY)	V001 B 302	(DISOBEYED GIVE WAY OR STOP SIGN C	OR MARKINGS)	
14 0108KF75155 SUN 28/09	/08 18:27 LIGHT CONSTANCE STREET E16 J/W	/ CONNAUGHT ROAD E16	17	LINK 7-12	542090 / 180120
POLICE - AT SCENE ROAD-D	RY WEATHER-FINE SINGLE CW	T/STAG JUN GIVE	WAY/UNCONT NO XING FACILITY IN 50M		
V1 HEADING SOUTH, PED RAN	OUT FROM BETWEEN CARS & HIT V1, DRIVER O	OT OUT HELPED PED THEN F	TS		
CASUALTY 001 (001) (7 Yrs	M E162) SERIOUS PEDESTRIAN	CROSSING ROAD (NOT ON)	(ING) W BOUND FROM DRIVERS N/S	SIDE MSK	
VEHICLE 001 (000) CAR	(18 Yrs - M NR14) RV NOT CONTACTED	GOING AHEAD OTHER	N TO S FRONT HIT FIRST	JCT APP	
V001 B 605 (INEXPERIENCE	D OR LEARNER DRIVER/RIDER)	C001 A 802	(FAILED TO LOOK PROPERLY)		

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SC01 GIS AREA Londo	n City Airport Area ((P)					60 MTS TO SEP-201	2 SORTED BY DATE
15 0108KF75853 TU	E 04/11/08 15:30	LIGHT FACTORY	ROAD 406M W J/W H	ENLEY ROAD			17 CELL 542500/180000	542570 / 180010
POLICE - OVER COU R	OAD-DRY	WEATHER-FINE	SINGLE CWY	NO JUN IN 20M		NO XING FACILITY IN S	50M	
V1 PULLED OUT OF AN	UNMARKED EXIT	OF INDUSTRIAL E	STATE AND COLLIDE	D WITH A PASSING BUS.				
CASUALTY 001 (002)	(43 Yrs - M RM16)) SLIGHT DF	RIVER/RIDER					
VEHICLE 001 (002)	GDS =< 3.5T	(? Yrs - M IG11)	٦	URNING RIGHT	S TO W	JNY PART OF WORK		
	BT - DRV NOT CO	ONTACTED			FRONT HIT I	FIRST		
VEHICLE 002 (001)	CAR	(43 Yrs - M RM16)	N N	VAITING TO TURN LEFT	E TO NE	COMM TO/FROM WOF	ĸ	
	BT - NOT PROVD	(MEDCL REASONS	5)		FRONT HIT I	FIRST		
V001 A 405 (FAILED T	O LOOK PROPER	LY)		V001 A 400	6 (FAILED TO J	UDGE OTHER PERSON'S	SPATH OR SPEED)	
16 0108KF75830 WE	ED 19/11/08 06:21	DARK FACTORY	ROAD E16 787M W J/	W HENLEY ROAD			17 CELL 542000/180000	542200 / 180080
POLICE - AT SCENE R	OAD-DRY	WEATHER-FINE	SINGLE CWY	NO JUN IN 20M		NO XING FACILITY IN S	50M	
VEHICLE 2 APPROACH	ED SLOWLY APPR	OACHED THE ENT	RANCE APPARENTL	Y INDICATED RIGHT. VEHI	CLE 2 HE TURN	NED RIGHT IN THE PATH	OF VEHICLE 1 CAUSING TH	HE COLLISION.
CASUALTY 001 (001)	(27 Yrs - M DA17)	SLIGHT DF	RIVER/RIDER					
VEHICLE 001 (000)	M/C 125-500CC	(27 Yrs - M DA17)	(GOING AHEAD OTHER	E TO W			
	BT - NEGATIVE				FRONT HIT I	FIRST		
VEHICLE 002 (001)	CAR	(60 Yrs - M DA14)	٦	URNING RIGHT	W TO E			
	BT - NEGATIVE				N/S HIT FIRS	ST		
V002 A 405 (FAILED T	O LOOK PROPER	LY)						

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SC01 GIS AREA Londo	n City Airport Area	(P)					60 MTS TO SEP-2012	SORTED BY DATE
17 0109KF60074 SL	IN 08/03/09 17:01	LIGHT NFL - H	ARTMANN ROAD 540M.	EAST OF J/W CONNAUGHT	ROAD.	17	CELL 542000/180000	542320 / 180230
POLICE - AT SCENE R	OAD-DRY	WEATHER-FINE	SINGLE CWY	PRIV DRIVE GIVE	WAY/UNCONT NO	O XING FACILITY IN 50M		
V3 EXITS PRIV. DRIVE	& COLLIDES WITH	I V2 APPROACH	ING FROM RIGHT. V2 C	ROSSES CARRIAGEWAY &	COLLIDES WITH C	DNCOMING V1.		
CASUALTY 001 (001)	(39 Yrs - M E7)	SLIGHT	DRIVER/RIDER					
CASUALTY 002 (002)	(64 Yrs - M TW5) SLIGHT	DRIVER/RIDER					
CASUALTY 003 (002)	(44 Yrs - F SW5)	SLIGHT	PASSENGER	BACK SEAT				
VEHICLE 001 (002)	CAR	(39 Yrs - M E7)	GOING AHEAD RIGHT BEND	SE TO N		JCT MID	
	BT - NEGATIVE				FRONT HIT FIRS	ST		
VEHICLE 002 (003)	ΤΑΧΙ	(64 Yrs - M TW	(5)	GOING AHEAD I FET BEND	N TO SE	NY PART OF WORK	JCT MID	
	BT - NEGATIVE	(- /		N/S HIT FIRST			
	0.4.5							
VEHICLE 003 (002)	BT - NOT REQU	(37 Yrs - F INW	14)	TURINING RIGHT	FRONT HIT FIRS	ST	JCT MID	
V003 A 405 (FAILED	TO LOOK PROPER	RLY)		V003 A 406	(FAILED TO JUDO	GE OTHER PERSON'S PA	TH OR SPEED)	
V003 B 602 (CARELE	SS/RECKLESS/IN	A HURRY)		V002 A 409	(SWERVED)			
18 0109KF60328 FR	I 19/06/09 14:10	LIGHT HARTM	ANN ROAD 100M. EAST	OF J/W CONNAUGHT ROAL).	17	LINK 677-678	541900 / 180370
POLICE - AT SCENE R	OAD-DRY	WEATHER-FINE	SINGLE CWY	PRIV DRIVE STOP	SIGN NO	O XING FACILITY IN 50M		·
V1 FAILS TO STOP AT	JUNCTION AND C	OLLIDES WITH T	AXI V2 APPROACHING	FROM RIGHT.				
CASUALTY 001 (001)	(45 Yrs - M SW1) SLIGHT	DRIVER/RIDER					
CASUALTY 002 (002)	(50 Yrs - M E14)	SLIGHT	DRIVER/RIDER					
VEHICLE 001 (002)	CAR	(45 Yrs - M SW	/11)	TURNING RIGHT	N TO W		JCT MID	
	BT - NEGATIVE				N/S HIT FIRST			
VEHICLE 002 (001)	ταχι	(50 Yrs - M E1)	4)	GOING AHEAD OTHER	W TO F	NY PART OF WORK		
	BT - NEGATIVE	(00 113 - WI E1-	•)	Source when the other	N/S HIT FIRST			
V001 A 302 (DISOBE		K STOP SIGN OF		V001 A 405			10)	
VUUT A 406 (FAILED	IO JUDGE OTHER	PERSON'S PAT	H UK SPEED)	VUU2 B 307	(TRAVELLING TO	OFAST FOR CONDITION	15)	

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SC01 GIS AREA London City Airpo	ort Area (P)					60 MTS TO SEP-2012	SORTED BY DATE
19 0109KF60404 SUN 19/07/09	17:15 LIGHT NFL - HARTM	IANN ROAD 275M.	EAST OF J/W CONNAUGH	IT ROAD.	17	7 CELL 542000/180000	542070 / 180320
POLICE - AT SCENE ROAD-DRY	FINE/HIGH WINDS	SINGLE CWY	PRIV DRIVE GIV	/E WAY/UNCONT	NO XING FACILITY IN 50M	Л	
V1 FAILS TO APPLY HAND BRAKE	, ROLLS INTO CARRIGEWAY	AND COLLIDES V	VITH STATIONARY TAXI V2	2.			
CASUALTY 001 (002) (46 Yrs - F	EN4) SLIGHT DRIV	/ER/RIDER					
VEHICLE 001 (002) CAR	(27 Yrs - M X-UK)		REVERSING	S TO N		JCT MID	
BT - DRV	NOT CONTACTED			BACK HIT FIR	ST		
VEHICLE 002 (001) TAXI	(46 Yrs - F EN4)		GOING AHEAD HELD UP	W TO E	JNY PART OF WORK	JCT MID	
BT - NOT	PROVD (MEDCL REASONS)			O/S HIT FIRST			
V001 A 602 (CARELESS/RECKL	ESS/IN A HURRY)		V001 A 60	07 (UNFAMILIAR V	VITH MODEL OF VEHICLE	:)	
20 0109KF60511 MON 07/09/09	06:45 LIGHT NORTH WOC	LWICH ROAD J/W	CONNAUGHT BRIDGE.		17	7 NODE 3	541620 / 180190
POLICE - AT SCENE ROAD-DRY	WEATHER-FINE	ROUNDABOU	T ROUNDABOUT GIV	/E WAY/UNCONT	NO XING FACILITY IN 50M	Л	
V2 LOSES CONTROL APPROACH	ING R/A, COLLIDES WITH LA	MP POST AND RE	BOUNDS INTO LORRY V1.				
CASUALTY 001 (002) (27 Yrs - N	I E11) SLIGHT DRIV	/ER/RIDER					
VEHICLE 001 (002) GDS => 7	7.5T (33 Yrs - M RM7)	ARTIC	TURNING RIGHT	E TO N	JNY PART OF WORK	JCT MID	
BT - NOT	REQUESTED			N/S HIT FIRST			
VEHICLE 002 (001) CAR	(27 Yrs - M E11)		GOING AHEAD OTHER	W TO E		JCT MID	
BT - NOT	REQUESTED	SKIDDEI)	FRONT HIT FI	RST		
LEFT CW	Y NEARSIDE		HIT KERB	HIT LAMP POS	ST		
V002 A 307 (TRAVELLING TOO	FAST FOR CONDITIONS)		V002 A 47	10 (LOSS OF CON	TROL)		
V002 A 602 (CARELESS/RECKL	ESS/IN A HURRY)						
21 0109KF60727 SUN 13/12/09	00:30 DARK PIER ROAD J	/W ALBERT ROAD			17	7 NODE 12	543310 / 179930
POLICE - OVER COU ROAD-DRY	WEATHER-FINE	SINGLE CWY	CROSSROADS GIV	/E WAY/UNCONT	ZEBRA		
INTOXICATED PED. SIGNALS TO	APPROACHING BUS V1 AND	IS HIT BY V1. V1 F	TS.				
CASUALTY 001 (001) (51 Yrs - N	1 E16) SLIGHT PED	ESTRIAN	ON FOOTPATH - VERGE	STAN	DING		
VEHICLE 001 (000) BUS/COA	CH (? Yrs - U UNKN)		GOING AHEAD OTHER	S TO N	JNY PART OF WORK	JCT CLEA	\RED
BT - DRV	NOT CONTACTED			N/S HIT FIRST			
C001 A 806 (IMPAIRED BY ALCO	DHOL)		C001 A 80	03 (FAILED TO JUI	DGE VEHICLE'S PATH OR	SPEED)	
V001 B 407 (PASSING TOO CLC	SE TO CYCLIST, HORSE RID	ER OR PEDESTRI	AN)				

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SC01 GIS AREA London City Airport Area (P)			60 MTS TO SEP-2012	SORTED BY DATE
22 0110KF60132 WED 03/03/10 11:46 LIGHT NFL- HARTMANN ROAD 740M	E OF J/W CONNAUGHT ROAD) 17	CELL 542500/180000	542510 / 180170
POLICE - AT SCENE ROAD-DRY WEATHER-FINE SINGLE CWY	Y NO JUN IN 20M	NO XING FACILITY IN 50M		
V1 REVERSED AND COLLIDED WITH PED IN ROAD				
CASUALTY 001 (001) (46 Yrs - M E13) SLIGHT PEDESTRIAN	CROSSING ROAD (NOT ON 2	XING) S BOUND		
VEHICLE 001 (000) TAXI (49 Yrs - M RM12) BT - NOT REQUESTED	REVERSING	W TO E JNY PART OF WORK BACK HIT FIRST		
V001 A 405 (FAILED TO LOOK PROPERLY)	V001 A 602	(CARELESS/RECKLESS/IN A HURRY)		
V001 B 710 (VISION AFFECTED - VEHICLE BLIND SPOT)	C001 B 802	(FAILED TO LOOK PROPERLY)		
23 0110KF60144 MON 08/03/10 16:10 LIGHT CONNAUGHT RD J/W HARTMA	ANN RD	17	NODE 678	541804 / 180379
POLICE - AT SCENE ROAD-DRY WEATHER-FINE SINGLE CWY V1 HIT THE REAR OF V2 V1 V1<	Y ROUNDABOUT GIVE	WAY/UNCONT NO XING FACILITY IN 50M		
CASUALTY 001 (002) (30 Yrs - M E16) SLIGHT DRIVER/RIDER				
VEHICLE 001 (002) CAR (26 Yrs - M UNKN) BT - NOT REQUESTED	MOVING OFF	E TO W FRONT HIT FIRST	JCT APP	
VEHICLE 002 (001) M/C 50-125CC (30 Yrs - M E16)	MOVING OFF	E TO W	JCT APP	
BT - NOT REQUESTED		BACK HIT FIRST		
V001 A 308 (FOLLOWING TOO CLOSE)				
24 0110KF60262 SAT 08/05/10 16:48 LIGHT ALBERT ROAD J/W BARGE HC	DUSE ROAD.	17	LINK 12-27	543740 / 180040
POLICE - AT SCENEROAD-WETRAININGSINGLE CWYV1 TURNING RIGHT IS HIT BY M/C V2 OVERTAKING V1.	Y CROSSROADS GIVE	WAY/UNCONT NO XING FACILITY IN 50M		
CASUALTY 001 (002) (52 Yrs - M IG2) SLIGHT DRIVER/RIDER				
VEHICLE 001 (002) CAR (44 Yrs - M CM2) BT - NOT REQUESTED	TURNING RIGHT	SW TO S JNY PART OF WORK O/S HIT FIRST	JCT MID	
VEHICLE 002 (001) M/C > 500CC (52 Yrs - M IG2) BT - NOT REQUESTED SKIDDE	OVERTAKE MOVE VEH O/S	SW TO NE COMM TO/FROM WORK	JCT MID	
V002 A 405 (FAILED TO LOOK PROPERLY) V002 B 602 (CARELESS/RECKLESS/IN A HURRY)	V002 A 406 V001 B 404	(FAILED TO JUDGE OTHER PERSON'S PA (FAILED TO SIGNAL/ MISLEADING SIGNA	ATH OR SPEED) L)	

SC01 GIS AREA London City Airport Area (P)

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60 MTS TO SEP-2012	SORTED BY DATE
ELL 541500/180000	541970 / 180290

25 0110KF60321 TL	JE 18/05/10 18:35	LIGHT CAMEL F	RD 116M E OF CONNA	UGHT RD			17 CELL 541500/1	80000 54	1970 / 180290
POLICE - OVER COU F	ROAD-DRY	WEATHER-FINE	SINGLE CWY	NO JUN IN 20M		NO XING FACIL	ITY IN 50M		
V1 AND V2 COLLIEDE I	HEAD ON ON NAR	ROW RD							
CASUALTY 001 (002)	(24 Yrs - M F14)	SUGHT							
)			S TO 144			
VEHICLE 001 (002)		(31 YIS - IVI E16)	GOING AREAD LEFT	DENU				
	BI - NEGATIVE					FRONT HIT FIRST			
VEHICLE 002 (001)		(24 Vrs - M E14)			WTOS			
)						
		CADLL							
V001 A 108 (ROAD L	AYOUT (EG BEND	. HILL. NARROW	CARRIAGEWAY))	V002	A 108	(ROAD LAYOUT (EG BEND. HIL	L. NARROW CARRIAGEW	AY))	
V001 A 701 (VISION	AFFECTED - STAT		KED VEHICLE(S))	V002	A 701	(VISION AFFECTED - STATION	ARY OR PARKED VEHICLE	E(S))	
			- (-//					(-//	
26 0110TB00199 TU	JE 18/05/10 15:38	LIGHT CONNAL	JGHT ROAD J/W HART	MANN ROAD			17 LINK 7-678	54	1863 / 180272
POLICE - AT SCENE	≀OAD-DRY	WEATHER-FINE	ROUNDABOL	JT ROUNDABOUT	GIVE	WAY/UNCONT NO XING FACIL	ITY IN 50M		
FOR UNKNOWN REAS	ONS V1 LOST CO	NTROL AND COLI	IDED WITH FENCE.						
CASUALTY 001 (001)	(? Yrs - M UNKN) SERIOUS	DRIVER/RIDER						
VEHICLE 001 (000)	CAR	(? Yrs - M UNK	N)	GOING AHEAD RIGH	IT BEND	SE TO N		JCT MID	
	BT - DRV NOT C	ONTACTED	SKIDDE	D		FRONT HIT FIRST			
	LEFT CWY OFF	SIDE		HIT KERB		HIT OTH OBJECT			
V001 A 410 (LOSS O	F CONTROL)								
27 0110KE60246 SI	IN 12/06/10 15:45							E/	2410 / 190090
						WAY/UNCONT NO YING FACIL		54	2410 / 160060
		WEATHER-FINE	SINGLE CVV I	1/STAG JUN	GIVE	WAT/DIVCONT NO XING FACIL			
CASUALTY 001 (001)	(41 Yrs - F E16)	SLIGHT	DRIVER/RIDER						
VEHICLE 001 (002)	PEDAL CYCLE	(41 Yrs - F E16)	GOING AHEAD OTH	ER	S TO N		JCT CLEARE	D
	BT - NOT APPLI	CABLE				BACK HIT FIRST			
	CAR		D.			C TO N			D
VERICLE 002 (001)			N)	OVERTAKE MOVE V	EH 0/5			JUI CLEARE	U
	DI - DKV NUT C	UNTACTED							
					A 402		=)		
VUUZ A 407 (PASSIN	3 100 CLOSE 10		RIDER OR PEDESTR	(AIN) VUU2	A 403	(FOOK TURIN OR WAINDEUVRE	=)		

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SC01 GIS AREA London City	Airport Area (P)			60 MTS TO SEP-20	012 SORTED BY DATE
28 0110KF60367 THU 24/0	06/10 10:50 LIGHT HARTMANN	ROAD 44M E OF J/W CONNAUGHT ROAD		17 CELL 541500/180000	541904 / 180294
POLICE - AT SCENE ROAD-	DRY WEATHER-FINE	SINGLE CWY NO JUN IN 20M	NO XING FACILITY	IN 50M	
PASSANGER C1 WAS BOARI	DING V1 AND HIT SHIN ON META	L PART OF STEP - [LOST FOOTING (C001)]			
CASUALTY 001 (001) (84 Y	rs-FE16) SLIGHT PA	SSENGER BOARDING PSV			
VEHICLE 001 (000) BUS BT -	/COACH (60 Yrs - M NW7) NOT REQUESTED	GOING AHEAD HELD UF	P E TO W JNY PART OF WOR DID NOT IMPACT	RΚ	
C001 A 999 (OTHER FACTO	OR)				
29 0110KF60399 WED 30/	/06/10 18:30 LIGHT PIER RD J/V	/ ALBERT RD		17 NODE 12	543320 / 179910
POLICE - OVER COU ROAD- V2 HIT THE REAR OF V1 AND	DRY WEATHER-FINE D FTS	SINGLE CWY CROSSROADS G	GIVE WAY/UNCONT ZEBRA		
CASUALTY 001 (001) (59 Y	írs - M RM15) SLIGHT DR	VER/RIDER			
VEHICLE 001 (002) CAR BT -	(59 Yrs - M RM15) DRV NOT CONTACTED	MOVING OFF	S TO N BACK HIT FIRST	JCT M	ID
VEHICLE 002 (001) CAR BT -	(? Yrs - U UNKN) DRV NOT CONTACTED	MOVING OFF	S TO N FRONT HIT FIRST	JCT M	ID
V002 A 308 (FOLLOWING T		V002 A	406 (FAILED TO JUDGE OTHER PERSO	ON'S PATH OR SPEED)	
1002 A 403 (FAILED TO EO					
300110KF60655MON 18/POLICE - AT SCENEROAD-IV1 UNWELL LOST CONTROL	10/10 13:18 LIGHT ALBERT RO DRY WEATHER-FINE -	AD 65M E OF J/W WINFRED STREET SINGLE CWY NO JUN IN 20M	NO XING FACILITY	17 LINK 7-12 IN 50M	542820 / 179980
CASUALTY 001 (001) (32 Y	rs - F E16) SERIOUS DR	VER/RIDER			
VEHICLE 001 (000) CAR BT -	(32 Yrs - F E16) NOT REQUESTED	GOING AHEAD OTHER	W TO E FRONT HIT FIRST		
V001 A 410 (LOSS OF CON	ITROL)	V001 A	505 (ILLNESS OR DISABILITY, MENTAL	OR PHYSICAL)	

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SC01 GIS AREA Londo	n City Airport Area (P))						60 MTS TC	SEP-2012 SORTED BY DATE
31 0110KF60748 WE	D 17/11/10 06:55 LI	GHT NFL- CO	NNAUGHT ROAD J/W (CONSTANCE STREET				17 LINK 7-12	542070 / 180120
POLICE - AT SCENE R	OAD-WET WI	EATHER-FINE	SINGLE CWY	T/STAG JUN	GIVE W	AY/UNCONT ZE	BRA		
PED RUNNING FOR TR	AIN CROSSED INTO	PATH OF A VA	AN THEN INTO PATH O	PF V1					
CASUALTY 001 (001)	(30 Yrs - F E16)	SLIGHT	PEDESTRIAN	CROSSING ROAD ON	PED XIN	G S BOUN	ID FROM DRIVER	S O/SIDE MSK	
VEHICLE 001 (000)	CAR (;	31 Yrs - M SS6	;)	GOING AHEAD OTHER	र s	E TO NW			JCT CLEARED
	BT - NOT REQUEST	TED			F	RONT HIT FIRS	ST		
C001 A 801 (CROSSE	D ROAD MASKED B	Y STATIONAR	Y OR PARKED VEHICLI	E) C001 A	802 (F	AILED TO LOOK	(PROPERLY)		
C001 A 808 (CARELE	SS/RECKLESS/IN A H	HURRY)		V001 A	701 (V	ISION AFFECTE	ED - STATIONARY C	R PARKED VEHICL	E(S))
V001 A 405 (FAILED	O LOOK PROPERLY	Y)							
32 0110KF60798 MC	OAD-DRY WI	ARK NORTH	NOOLWICH ROAD J/W ROUNDABOU	CONNAUGHT BRIDGE	E GIVE W	AY/UNCONT NO) XING FACILITY IN	17 NODE 3	541630 / 180190
CYCLSITS ON ROUNDA	BOUT WAS HIT BY	V2 CUTTING A	CROSS IT'S PATH		0				
CASUALTY 001 (001)	(29 Yrs - F E16)	SLIGHT	DRIVER/RIDER						
VEHICLE 001 (002)	PEDAL CYCLE (2 BT - NOT APPLICAE	29 Yrs - F E16 BLE)	GOING AHEAD OTHEF	R V C	V TO E CO D/S HIT FIRST	OMM TO/FROM WO	RK	JCT MID
VEHICLE 002 (001)	CAR (BT - DRV NOT CON	? Yrs - M UNKI ITACTED	N)	GOING AHEAD OTHEF	R S N	S TO N I/S HIT FIRST			JCT MID
V002 A 405 (FAILED V002 A 407 (PASSING	TO LOOK PROPERLY G TOO CLOSE TO CY	() (CLIST, HORSE	E RIDER OR PEDESTR	V002 A IAN)	602 (C	ARELESS/RECH	KLESS/IN A HURRY)		

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SC01 GIS AREA London City Airport Area (P)			60 MTS T	O SEP-2012 SORTED BY DATE
33 0110KF60829 WED 15/12/10 00:50 DARK NFL- ALBERT ROAD J/W TAT	E ROAD		17 LINK 7-12	542480 / 180050
POLICE - AT SCENE ROAD-WET RAINING SINGLE CW	/Y T/STAG JUN GIVE	WAY/UNCONT NO XING FACILITY IN 5	OM	
V2 OVERTAKING CARS COLLIDED HEAD ON INTO ONCOMING V1				
CASUALTY 001 (001) (55 Yrs - M E17) SLIGHT DRIVER/RIDER				
VEHICLE 001 (002) BUS/COACH (55 Yrs - M E17)	GOING AHEAD OTHER	W TO E JNY PART OF WORK		JCT CLEARED
BT - NOT PROVD (MEDCL REASONS)		FRONT HIT FIRST		
VEHICLE 002 (001) CAR (? Yrs - M UNKN)	GOING AHEAD OTHER	E TO W		JCT APP
BT - DRV NOT CONTACTED		FRONT HIT FIRST		
V002 A 405 (FAILED TO LOOK PROPERLY)	V002 A 602	(CARELESS/RECKLESS/IN A HURRY)		
V002 A 307 (TRAVELLING TOO FAST FOR CONDITIONS)	V002 B 601	(AGGRESSIVE DRIVING)		
34 0110KF60830 TUE 28/12/10 15:24 LIGHT ALBERT ROAD J/W MILK ST	REET		17 LINK 12-27	543670 / 180000
POLICE - AT SCENE ROAD-WET RAINING SINGLE CW	/Y T/STAG JUN GIVE	WAY/UNCONT NO XING FACILITY IN 5	MO	
V1 TURNED RIGHT AND WAS HIT BY SOLO				
CASUALTY 001 (002) (43 Yrs - M E16) SERIOUS DRIVER/RIDER				
VEHICLE 001 (002) CAR (66 Yrs - M OX3)	TURNING RIGHT	NE TO N		LEAVING MAIN RD
BT - NEGATIVE		O/S HIT FIRST		
VEHICLE 002 (001) M/C > 500CC (43 Yrs - M E16)	GOING AHEAD OTHER	NE TO SW		
BT - NOT REQUESTED	Conto Antendo o merc	FRONT HIT FIRST		001741
V001 A 405 (FAILED TO LOOK PROPERLY)	V001 A 602	(CARELESS/RECKLESS/IN A HURRY)		
V001 B 302 (DISOBEYED GIVE WAY OR STOP SIGN OR MARKINGS)				
35 0111KF60051 THU 17/02/11 20:20 DARK ALBERT ROAD J/W FERNHIL	L STREET		17 LINK 7-12	542870 / 179970
POLICE - OVER COU ROAD-DRY WEATHER-FINE SINGLE CW	/Y T/STAG JUN GIVE	WAY/UNCONT ZEBRA		
SOLO LOST CONTROL UNKNOWN WHY AND FELL OF HIS BIKE HITTING A PE	D			
CASUALTY 001 (001) (15 Yrs - F RM8) SLIGHT PEDESTRIAN		STANDING		
VEHICLE 001 (000) M/C 50-125CC (23 Yrs - M E14)	GOING AHEAD OTHER	W TO E JNY PART OF WORK		JCT CLEARED
BT - DRV NOT CONTACTED		FRONT HIT FIRST		
	HIT KERB			
VUU1 A 410 (LOSS OF CONTROL)	V001 A 602	(CARELESS/RECKLESS/IN A HURRY)		

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SC01 GIS AREA London City Airport Area (P)	60 MTS T	O SEP-2012 SORTED BY DATE
36 0111KF60077 SAT 05/03/11 16:30 DARK ALBERT ROAD J/W FISHGUARD WAY	17 LINK 12-27	543820 / 180090
POLICE - OVER COU ROAD-DRY WEATHER-FINE SINGLE CWY T/STAG JUN GI	VE WAY/UNCONT NO XING FACILITY IN 50M	
V1 WAITING TO TURN RIGHT AND WAS HIT IN REAR BY V2		
CASUALTY 001 (001) (26 Yrs - M CM13) SLIGHT DRIVER/RIDER		
VEHICLE 001 (002) CAR (26 Yrs - M CM13) WAITING TO TURN RIGH BT - DRV NOT CONTACTED	T SW TO SE COMM TO/FROM WORK BACK HIT FIRST	LEAVING MAIN RD
VEHICLE 002 (001) CAR (? Yrs - M E16) GOING AHEAD OTHER BT - DRV NOT CONTACTED BT - DRV NOT CONTACTED GOING AHEAD OTHER	SW TO NE FRONT HIT FIRST	JCT APP
V002 A 405 (FAILED TO LOOK PROPERLY) V002 A 6	602 (CARELESS/RECKLESS/IN A HURRY)	
37 0111KF60131 THU 17/03/11 21:14 DARK ALBERT ROAD J/W WOOLWICH MANOR WAY	17 LINK 12-27	543820 / 180080
POLICE - AT SCENE ROAD-DRY WEATHER-FINE SINGLE CWY T/STAG JUN GI	VE WAY/UNCONT NO XING FACILITY IN 50M	
SOLO OVERTOOK V1 AND COLLIDED WITH OFFSIDE OF V1		
CASUALTY 001 (002) (29 Yrs - M SE28) SLIGHT DRIVER/RIDER		
VEHICLE 001 (002) CAR (38 Yrs - M RM9) GOING AHEAD LEFT BEN BT - NEGATIVE	ND SW TO N O/S HIT FIRST	JCT APP
VEHICLE 002 (001) M/C > 500CC (29 Yrs - M SE28) OVERTAKE MOVE VEH O BT - NOT REQUESTED	V/S SW TO N N/S HIT FIRST	JCT APP
V002 A 405 (FAILED TO LOOK PROPERLY) V002 A 6	602 (CARELESS/RECKLESS/IN A HURRY)	
V002 A 407 (PASSING TOO CLOSE TO CYCLIST, HORSE RIDER OR PEDESTRIAN)		
380111KF60288THU 09/06/11 15:03LIGHT ALBERT ROAD J/W PIER ROADPOLICE - AT SCENEROAD-DRYWEATHER-FINESINGLE CWYCROSSROADSGI	17 NODE 12 VE WAY/UNCONT ZEBRA ROADWORKS	543300 / 179910
PED WALKED ON THE KERB DUE TO ROAD WORKS ON PAVEMENT AND WAS CLIPPED BY PASSING V1(BUS)	
CASUALTY 001 (001) (32 Yrs - M E16) SLIGHT PEDESTRIAN ON FOOTPATH - VERGE	E BOUND	
VEHICLE 001 (000) BUS/COACH (35 Yrs - M E13) GOING AHEAD OTHER BT - NEGATIVE	W TO E JNY PART OF WORK N/S HIT FIRST	JCT APP
V001A407 (PASSING TOO CLOSE TO CYCLIST, HORSE RIDER OR PEDESTRIAN)V001A4C001A802 (FAILED TO LOOK PROPERLY)V001A4	405 (FAILED TO LOOK PROPERLY)	
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London City Airport Area - personal injury collisions - 5 years to 30 September 2012 (provisional)

SC01 GIS AREA Londo	on City Airport Area	(P)						60 MTS TO SEP-20	12 SORTED BY DATE
39 0111KF60440 W	ED 13/07/11 18:33	LIGHT NFL- HAR	TMANN ROAD 228M I	E OF J/W CONNAUGH	IT ROAD		1	7 CELL 542000/180000	542020 / 180320
POLICE - AT SCENE	ROAD-DRY	WEATHER-FINE	SINGLE CWY	NO JUN IN 20M		NO X	(ING FACILITY IN 50	Μ	
PED RAN OUT INTO O	FFSIDE OF PASSII	NG V1							
CASUALTY 001 (001)	(11 Yrs - M E16)	SLIGHT F	PEDESTRIAN	CROSSING ROAD (N	IOT ON XING)	S BOUND	FROM DRIVERS C	D/SIDE	
VEHICLE 001 (000)	CAR	(44 Yrs - M SG1	1)	GOING AHEAD OTHE	ER E TO W	1			
	BT - NEGATIVE				O/S HIT	FIRST			
C001 A 802 (FAILED	TO LOOK PROPE	RLY)		C001	A 808 (CARELE	ESS/RECKLE	ESS/IN A HURRY)		
40 0111KF60503 W	ED 07/09/11 05:30	DARK HARTMAN	N ROAD 391M E OF J/	W CANNAUGHT ROA	D		1	7 CELL 542000/180000	542236 / 180281
POLICE - AT SCENE	ROAD-DRY	WEATHER-FINE	SINGLE CWY	PRIV DRIVE	GIVE WAY/UN	CONT NO X	(ING FACILITY IN 50	Μ	
V1 PULLED OUT AND 1	FURNED RIGHT AG	COSS PATH OF PA	SSING V2						
CASUALTY 001 (002)	(44 Yrs - F E6)	SLIGHT [DRIVER/RIDER						
VEHICLE 001 (002)	CAR	(51 Yrs - M SS13	3)	TURNING RIGHT	S TO E	JNY	PART OF WORK	ENTER	ING MAIN RD
	BT - NOT REQU	ESTED			FRONT	HIT FIRST			
VEHICLE 002 (001)	CAR	(44 Yrs - F E6)		GOING AHEAD OTHE	ER E TO W	1		JCT AP	P
	BT - NOT REQU	ESTED			N/S HIT	FIRST			
V001 A 405 (FAILED	TO LOOK PROPE	RLY)		V001	A 302 (DISOBE	YED GIVE W	VAY OR STOP SIGN	OR MARKINGS)	
V001 A 602 (CARELE	ESS/RECKLESS/IN	A HURRY)							
41 0111KF60513 SA	AT 24/09/11 12:55	LIGHT NFL- ALB	ERT ROAD J/W HOLT	ROAD			1	7 LINK 7-12	542356 / 180070
POLICE - AT SCENE	ROAD-DRY	WEATHER-FINE	SINGLE CWY	T/STAG JUN	GIVE WAY/UN	CONT NO X	ING FACILITY IN 50	M	
PED STARTED TO CRO	OSS FROM BEHIN	D REVERSING V1	CAUSING COLLISION						
CASUALTY 001 (001)	(63 Yrs - M E16)	SLIGHT F	PEDESTRIAN	CROSSING ROAD (N	IOT ON XING)	S BOUND	FROM DRIVERS N	V/SIDE	
VEHICLE 001 (000)	CAR	(39 Yrs - F KT8)		REVERSING	SE TO	NW		JCT CL	EARED
	BT - NOT REQU	ESTED			BACK H	HT FIRST			
V001 A 405 (FAILED	TO LOOK PROPE	RLY)		V001	A 602 (CARELE	ESS/RECKLE	ESS/IN A HURRY)		
C001 A 802 (FAILED	TO LOOK PROPE	RLY)		C001	A 808 (CARELE	ESS/RECKLE	ESS/IN A HURRY)		

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London City Airport Area - personal injury collisions - 5 years to 30 September 2012 (provisional)

SC01 GIS AREA Londo	on City Airport Area	a (P)					60 MTS TO SEP-20	12 SORTED BY DATE
42 0112KF60371 TL	JE 03/07/12 12:10	LIGHT NFL: HARTM,	ANN ROAD 48M V	V J/W UNNAMED ROAD AI	RPORT ENTRAN	CE ·	17 CELL 542000/180000	542320 / 180290
POLICE - AT SCENE	ROAD-DRY	WEATHER-FINE	SINGLE CWY	/ NO JUN IN 20M		NO XING FACILITY IN 50	MC	
V1 EAST-BD OVERTOO	OK V2 AND WAS 1	THEN SHUNTED BY V2						
CASUALTY 001 (001)	(45 Yrs - M RM1	7) SLIGHT DRIV	'ER/RIDER					
VEHICLE 001 (002)	TAXI	(45 Yrs - M RM17)		SLOWING OR STOPPING	N TO S	JNY PART OF WORK		
	BT - NOT REQL	JESTED			BACK HIT FI	RST		
VEHICLE 002 (001)	ΤΑΧΙ	(61 Yrs - M EC1V)		GOING AHEAD OTHER	N TO S	JNY PART OF WORK		
	BT - NOT REQU	JESTED	SKIDDE	D	FRONT HIT	FIRST		
V002 B 406 (FAILED	TO JUDGE OTHE	R PERSON'S PATH OR	SPEED)	V001 A 4	108 (SUDDEN BRA	AKING)		
43 0112KF60360 FF	RI 06/07/12 09:48	LIGHT ALBERT ROA	D J/W MILK STRE	ET			17 LINK 12-27	543670 / 180000
POLICE - AT SCENE	ROAD-WET	RAINING	DUAL CWY	T/STAG JUN GI	VE WAY/UNCON	T NO XING FACILITY IN 50	MC	
V1 SW-BOUND STOPP	ED TO TURN RIG	GHT, AND WAS SHUNTE	D BY V2					
CASUALTY 001 (001)	(29 Yrs - F E6)	SLIGHT DRIV	'ER/RIDER					
VEHICLE 001 (002)	CAR	(29 Yrs - F E6)		TURNING RIGHT	NE TO N		JCT MI)
	BT - NEGATIVE				BACK HIT FI	RST		
VEHICLE 002 (001)	CAR BT - NEGATIVE	(36 Yrs - M IG3)		GOING AHEAD OTHER	NE TO SW FRONT HIT I	FIRST	JCT MI)
V002 B 405 (FAILED V002 B 410 (LOSS O	F CONTROL)	:RLY)		V002 B 4	106 (FAILED TO J	UDGE OTHER PERSON'S	PATH OR SPEED)	
44 0112KF60558 SA	AT 29/09/12 03:15	DARK NFL: CONNAU	JGHT BRIDGE 68	M S AIRPORT ROUNDABO	UT		17 LINK 3-6	541650 / 180310
POLICE - OVER COU F	ROAD-DRY	WEATHER-FINE	DUAL CWY	NO JUN IN 20M		NO XING FACILITY IN 50	M	
V1 SOUTH-BD DROVE	AGGRESSIVELY	AND CAUSED CAS1 ON	BOARD TO FAL	L AND BE INJURED				
CASUALTY 001 (001)	(28 Yrs - F SN11	1) SLIGHT PASS	SENGER	BACK SEAT				
VEHICLE 001 (000)	ΤΑΧΙ	(? Yrs - M UNKN)		SLOWING OR STOPPING	N TO S	JNY PART OF WORK		
	BT - DRV NOT (CONTACTED			DID NOT IM	PACT		
V001 B 602 (CARELE	ESS/RECKLESS/IN	NA HURRY)		V001 B 6	03 (NERVOUS/U	NCERTAIN/ PANIC)		
End of Accidents for SC	01 GIS AREA Lon	idon City Airport Area (P)						
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APPENDIX C

Architect's Scheme Layout





Note:



None :Model files attached.





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APPENDIX D

Airport Forecourt and Taxi Feeder Park Layout





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APPENDIX E

Forecourt Road Safety Audit

London City Airport

London City Forecourt

Response Report for Stage 1 Road Safety Audit

March 2013

Notice

This report was produced by Atkins Highways and Transportation for London City Airport for the specific purpose of a Stage 1 Road Safety Audit Designer's Response.

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Document History

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1. Introduction

- 1.1 This report details the Client Organisation's response to the Stage 1 Road Safety Audit Report carried out on the London City Airport Forecourt and West Building Extension Service Area Design proposals by Atkins. The safety audit was carried out during March 2013 and the results were issued in report reference *London City Airport Forecourt Stage 1 Road Safety Audit*.
- 1.2 This report was compiled by JP Doherty, Senior Engineer, Atkins on behalf of the London City Airport
- 1.3 The terms of reference of this response report are as described in HD 19/03, 'Road Safety Audit' (DMRB Volume 5, Section 2).
- 1.4 Where a safety audit recommendation is accepted, this report details the actions proposed to comply with the recommendation or an alternative solution. Where a safety audit recommendation is rejected, this report details the justification for rejection.

2. Response to Items Raised in the Previous Stage 1 Road Safety Audit

Safety Audit (RSA 1) Location Ref A

- 2.1 Location: New Zebra crossing on Hartmann Road
- 2.2 **Problem:** Visibility to/from pedestrians.
- 2.3 Detailed description of the problem: The new crossing on Hartmann Road is adjacent to an existing lay-by that is marked for removal. The sightlines to approaching traffic from the northern kerb would be restricted by any obstacles at the approximate location of the lay-by or at the edge of the newly landscaped forecourt area. Restricted visibility could result in approaching motorists failing to identify a crossing pedestrian and in such pedestrians failing to notice approaching traffic. (See Figure 1)

Figure 1 - Potential for restricted visibility at new zebra crossing



AUDIT TEAM RECOMMENDATION

2.4 Ensure that the visibility between pedestrians waiting to cross and approaching vehicles is sufficient for them to see each other clearly.

CLIENT ORGANISATION RESPONSE

Designer's Response:

2.5 Recommendation Accepted. The lay-by is to be removed and replaced with 2.5m wide footway backed by low level bollards and "no waiting" parking restrictions (to be enforced) to be placed along Hartmann Road to prevent parking, dropping off and picking up. Given the anticipated low vehicle speeds on the approach it is assumed that the visibility envelope and stopping distance will be sufficient.

Safety Audit (RSA 1) Location Ref B

- 2.6 **Location:** Throughout forecourt.
- 2.7 **Problem:** Pedestrian routing and desire lines.
- 2.8 **Detailed description of the problem:** The information provided does not detail how pedestrians leaving the terminal building will be directed to the new facilities or how they will be routed through the landscaped area. The new Zebra crossing is not provided at the same location as the existing facility and as such pedestrians, especially staff living locally, may continue to follow the existing route. Indeed the deterrent paving, which is currently on the corner of the access road close to the existing Zebra crossing, is being removed, which could encourage crossing at this location.
- 2.9 There is also the possibility the some arriving passengers may look to get access to a taxi at the first opportunity, heading straight for Hartmann Road to reach the westbound verge. Pedestrians crossing away from the Zebra crossing may be at risk of being struck by passing traffic.

AUDIT TEAM RECOMMENDATION

2.10 Ensure that the proposals have a clear strategy for routing pedestrians between the terminal and the new forecourt facilities as well as to and from the new Zebra crossing.

CLIENT ORGANISATION RESPONSE

Designer's Response:

2.11 **Recommendation accepted:** However way finding details are to be confirmed at a later stage. The Zebra crossing is being moved to a more direct route between the terminal building and new staircase and existing ramp between Hartmann Road and Newland Street. The existing zebra location will be difficult to access as deterrent paving will be installed on the north side of Hartmann Road. The passenger arrivals hall will be located next to the east terminal entrance within sight of the forecourt (taxi rank, bus stops, and private vehicle pickup point). Passengers will naturally be drawn to the forecourt to access transport modes. Stopping on Hartmann Road will be prohibited to prevent obstruction of the carriageway.

Safety Audit (RSA 1) Location Ref C

- 2.12 **Location:** Hartmann Road.
- 2.13 **Problem:** Ramped access to Newland Street
- 2.14 **Detailed description of the problem:** The proposals for the south side of Hartmann Road include closure of the existing lay-by. The new pedestrian area created, and connected to the forecourt by the introduction of the new Zebra crossing, is higher than Newland Street. There is an

existing ramped access to Newland Street but this is more easily reached from the existing Zebra crossing. The introduction of steps at this location would reduce disabled access to the Airport from the local area, this access is likely to be important given the frequency of bus services to the airport that also provide for local people.

2.15 This area underneath the Dockland Light Railway (DLR) viaduct provides motorcycle and bike parking (see Figure 2). The dropped kerbed access to the parking would conflict with the new Zebra crossing and pedestrians could be struck by motorcyclists and cyclists gaining access.

AUDIT TEAM RECOMMENDATION

- 2.16 Retain ramped access between Hartmann Road and Newland Street.
- 2.17 Relocate the motorbike and bike parking area or sufficiently segregate the area from the pedestrian crossing.

CLIENT ORGANISATION RESPONSE

Designer's Response:

- 2.18 **Recommendation accepted**: The ramp access between Hartmann Road and Newlands road will be retained. The raised footway on Hartmann Road will be lowered as part of removing the lay-by. The existing ramp will tie into the new footway.
- 2.19 The motorcycle parking will be relocated further down the dockside. Cycle parking will remain adjacent to the top of the stairs albeit reorganised to accommodate the new stairs.

Safety Audit (RSA 1) Location Ref D

- 2.20 Location: Throughout forecourt area
- 2.21 **Problem:** Direction of approaching traffic
- 2.22 **Detailed description of the problem:** The existing forecourt area has 'look left' and 'look right' markings at all crossings (see Figure 3), as many foreign passengers arriving at the airport may not be familiar with the direction traffic approaches. The complexity of the new arrangement may also lead to confusion, even for UK residents. The lack of advisory markings could result in a pedestrian walking into the path of an approaching vehicle.



AUDIT TEAM RECOMMENDATION

2.23 Provide 'look left' and 'look right' markings at all crossing locations.

CLIENT ORGANISATION RESPONSE

Designer's Response:

2.24 **Recommendation accepted**: `Look Left/ Right` markings to be included in layout.

Safety Audit (RSA 1) Location Ref E

- 2.25 Location: Hartmann Road
- 2.26 **Problem:** Taxi attempt to enter via taxi drop off exit.
- 2.27 **Detailed description of the problem**: The advanced direction sign on the approach to the taxi drop off shows drivers the route ahead with the entrance to the drop area as the first side road to be reached. Drivers at first encounter the exit from the drop off area and a small number may attempt to make a turn into this area, especially at quiet times when there is a lack of other traffic to act as a guide. This could result in head on collisions at the lay-by exit. A similar issue exists with the exit from the bus lay-by on the westbound approach.

AUDIT TEAM RECOMMENDATION

2.28 Add the lay-by exit to the sign with a 'no-entry' plate to remove confusion. Revise the design of the sign on the westbound to account for the bus lay-by exit. Plan Design Enable

CLIENT ORGANISATION RESPONSE

Designer's Response:

2.29 **Recommendation accepted**

Safety Audit (RSA 1) Location Ref F

- 2.30 Location: Hartmann Road.
- 2.31 **Problem:** Taxi queue.
- 2.32 **Detailed description of the problem**: At the time of the site visit the Audit Team noted a large number of taxis queuing along Hartmann Road far past the terminal and hire car parking. It is understood that there may be a taxi marshalling area provided elsewhere to hold these taxis and control access to the forecourt operations but, in the absence of detail at this stage of design it is unclear what parking/waiting controls will be in place on the proposed road system. If taxis are able to by-pass any marshalling system and if waiting is not strictly controlled and enforced, it would certainly restrict the performance of the junctions, taxi and bus pickup/drop off areas and the road system itself. This could increase the risk of collisions in and around the new system.

AUDIT TEAM RECOMMENDATION

2.33 Implement a comprehensive marshalling system which will efficiently prevent injudicious entry to the system and provide appropriate parking/waiting restrictions to prevent taxis and other vehicles from causing an obstruction or other hazards.

CLIENT ORGANISATION RESPONSE

Designer's Response:

2.34 **Recommendation accepted**: A new taxi feeder park system has been designed further east of the forecourt, by Hartmann Road junction with Woolwich Manor Way as part of a further package of works along Hartmann Road to the east of the terminal building.

3. **Client Organisation Statements**

Client Officer's Statement

In accordance with HD 19/03, 'Road Safety Audit' (DMRB Volume 5, Section 2), I certify that I 3.1 have reviewed the items raised in the Stage 2 Safety Audit Report. I have given due consideration to each issue raised and have stated my proposed course of action for each in this report. I seek the Senior Client Officer's endorsement of my proposals.

Name: John Higgins DIRECTOR OF ALLET MOMIT & Development. Handon City Airport Dated: 17/4/13 John Higgins Position: **Organisation:** Signed: Senior Client Officer's Statement

3.2

I accept these proposals by the Client Officer.

Name:

Position:

Organisation:

London City Airport

Signed:

Dated:

8002-481-001D Final RSA Response Report LCY B

APPENDIX F

Car Park Data

London City Airport: CADP

SHORT-STAY

1/18 SPACES	1/18				
Hr	Entry	Fxits	Total	Occupied	% Occupied
05.00	1/	2	16	12	8 3%
05:00	37	7	10	/12	28.9%
00:00	67	25	44	60	26.5% 46.7%
07.00	60	20	97	09	40.7%
08.00	60	39	99	91	01.3%
09:00	40	37	77	94	63.2%
10:00	26	19	45	101	68.0%
11:00	32	17	49	116	78.4%
12:00	28	22	50	123	83.0%
13:00	27	21	49	129	86.9%
14:00	24	22	46	131	88.7%
15:00	24	22	45	134	90.3%
16:00	29	27	57	135	91.5%
17:00	56	47	103	145	97.6%
18:00	60	71	131	133	90.2%
19:00	42	55	97	121	81.4%
20:00	27	39	66	109	73.5%
21:00	8	16	25	101	68.0%
22:00	1	2	4	100	67.4%
				MAX	97.6%

LONG-STAY

NB. Assumes 214 spaces occupied overnight 644

044 SPACES	044				
Hr	Entry	Exits	Total	Occupied	% Occupied
05:00	90	1	90	303	47.0%
06:00	58	2	60	359	55.8%
07:00	34	6	40	388	60.2%
08:00	25	8	33	404	62.7%
09:00	12	15	27	400	62.2%
10:00	12	10	23	403	62.5%
11:00	20	13	33	410	63.6%
12:00	36	16	52	430	66.8%
13:00	43	54	97	419	65.0%
14:00	19	30	49	407	63.2%
15:00	14	16	30	404	62.7%
16:00	13	15	28	401	62.3%
17:00	9	28	37	382	59.3%
18:00	10	35	44	357	55.4%
19:00	6	41	47	321	49.9%
20:00	3	51	54	274	42.5%
21:00	2	41	43	235	36.5%
22:00	1	9	10	227	35.2%
				MAX	66.8%

Vectos

Car Park Profile: 2012

SHORT-STAY

SHORT STAT					
275 spaces	275				
	Entry	Exit	Total	Occupied	% Occupied
05:00	22	3	25	30	10.7%
06:00	59	11	69	78	28.3%
07:00	98	56	154	120	43.5%
08:00	96	62	157	154	56.0%
09:00	63	59	122	158	57.6%
10:00	41	30	71	170	61.7%
11:00	51	27	78	194	70.6%
12:00	45	34	79	205	74.6%
13:00	43	34	77	214	77.9%
14:00	39	35	73	218	79.4%
15:00	38	34	72	222	80.7%
16:00	47	43	90	225	81.9%
17:00	89	75	164	239	87.1%
18:00	95	112	207	222	80.7%
19:00	66	87	153	201	73.2%
20:00	43	62	105	183	66.4%
21:00	13	26	39	170	61.7%
22:00	2	3	6	168	61.2%
				MAX	87.1%

LONG-STAY

NB. 390 spaces occupied overnight

			ND. 550 sp	aces occupied	overnight
775 spaces	775				
	Entry	Exit	Total	Occupied	% Occupied
05:00	142	1	143	531	68.5%
06:00	92	3	95	620	80.1%
07:00	60	24	85	656	84.6%
08:00	49	38	87	666	86.0%
09:00	31	42	73	656	84.6%
10:00	31	49	80	638	82.3%
11:00	40	27	67	651	84.0%
12:00	71	38	109	684	88.3%
13:00	76	95	170	665	85.8%
14:00	40	66	107	639	82.4%
15:00	33	33	66	639	82.5%
16:00	36	38	74	638	82.3%
17:00	44	56	101	626	80.7%
18:00	35	75	110	585	75.5%
19:00	30	86	116	530	68.4%
20:00	25	97	121	458	59.1%
21:00	22	79	100	401	51.7%
22:00	18	21	38	398	51.4%
				MAX	88.3%

Car Park Profile: 2023 With Development

London City Airport: CADP

SHORT-STAY

	_				
148 spaces	148				
	Entry	Exit	Total	Occupied	% Occupied
05:00	17	2	19	15	10.0%
06:00	44	8	52	51	34.6%
07:00	74	42	116	83	56.0%
08:00	72	47	119	109	73.4%
09:00	48	44	92	112	75.8%
10:00	31	23	54	121	81.5%
11:00	39	20	59	139	94.0%
12:00	34	26	60	147	99.5%
13:00	33	26	58	154	104.2%
14:00	29	26	55	157	106.3%
15:00	29	26	54	160	108.2%
16:00	35	33	68	162	109.7%
17:00	67	56	123	173	117.1%
18:00	72	85	156	160	108.1%
19:00	50	66	116	144	97.6%
20:00	33	47	79	130	88.1%
21:00	10	20	30	121	81.5%
22:00	2	3	4	120	80.8%
				MAX	117.1%

LONG-STAY

NB. 322 spaces occupied overnight

			aces occupied	overnight	
644 spaces	644				
	Entry	Exit	Total	Occupied	% Occupied
05:00	107	1	108	428	66.5%
06:00	70	2	72	496	77.0%
07:00	41	7	48	530	82.3%
08:00	29	10	39	550	85.4%
09:00	14	19	33	545	84.7%
10:00	15	12	27	548	85.1%
11:00	24	16	40	556	86.4%
12:00	43	19	62	581	90.2%
13:00	52	65	117	567	88.1%
14:00	22	36	58	553	85.9%
15:00	16	20	36	550	85.4%
16:00	15	19	34	546	84.8%
17:00	10	34	44	523	81.2%
18:00	12	42	53	493	76.6%
19:00	7	49	56	450	70.0%
20:00	4	61	64	394	61.1%
21:00	2	49	51	347	53.9%
22:00	1	11	12	337	52.4%
				MAX	90.2%

Car Park Profile: 2023 Without Development

SHORT-STAY

SHORT-STAT					
275 spaces	275				
	Entry	Exit	Total	Occupied	% Occupied
05:00	23	3	26	30	10.9%
06:00	60	11	71	79	28.8%
07:00	100	57	157	122	44.3%
08:00	98	63	161	157	57.1%
09:00	65	60	124	162	58.7%
10:00	42	31	73	173	62.9%
11:00	52	27	80	198	72.0%
12:00	46	35	81	209	76.0%
13:00	44	35	79	218	79.4%
14:00	40	35	75	223	81.0%
15:00	39	35	73	226	82.3%
16:00	47	44	92	230	83.5%
17:00	91	76	167	244	88.8%
18:00	97	115	211	226	82.3%
19:00	68	89	157	205	74.6%
20:00	44	63	107	186	67.7%
21:00	13	27	40	173	62.9%
22:00	2	4	6	172	62.4%
				MAX	88.8%

LONG-STAY

NB. 390 spaces occupied overnight

LONG-STAT	_		ND. 220 Sh	aces occupied	JOVETINGIN
775 spaces	775				
	Entry	Exit	Total	Occupied	% Occupied
05:00	145	1	146	534	68.9%
06:00	94	3	97	625	80.7%
07:00	61	25	86	662	85.4%
08:00	50	39	88	672	86.8%
09:00	32	42	74	662	85.4%
10:00	31	49	80	644	83.1%
11:00	41	27	68	658	84.8%
12:00	72	38	110	691	89.2%
13:00	77	96	173	672	86.7%
14:00	41	67	108	645	83.3%
15:00	34	33	67	646	83.3%
16:00	36	38	75	644	83.1%
17:00	45	57	102	631	81.4%
18:00	35	76	111	590	76.1%
19:00	30	87	117	533	68.8%
20:00	25	98	123	460	59.3%
21:00	22	80	102	402	51.8%
22:00	18	21	39	399	51.4%
				MAX	89.2%

Car Park Profile: 2023 With Development - Sensitivity Test

APPENDIX G

Travel Plan



Travel Plan

February 2011



Summary

Travel Plans are one of the ways of potentially reducing the car dependency of sites by providing information and opportunities for alternative modes of transport.

London City Airport (LCY) is fortunate in being well connected to and easily accessible by public transport to London's extensive and multi-modal transportation network, particularly since the extension of the Docklands Light Railway in 2005 to include a station at London City Airport. The modal share for passenger travel to London City Airport is excellent, and probably one of the best of any significant commercial airport in Europe.

Nevertheless improvements can always be made in reducing the impacts of the Airport's staff and passengers on the local road network, in line with LCY's Section 106 Planning Agreement, and increasing the mode share of more sustainable modes of transport. The Travel Plan outlines the methods LCY will use to achieve this.

London City Airport has appointed a Travel Plan Coordinator to produce, manage, implement, monitor and review the Travel Plan, utilising a range of initiatives, measures and marketing strategies, covering walking; cycling; public transport; car sharing and parking.

This will result in a managed, monitored and controlled travel ethos to the benefit of staff, passengers, local communities, London and the general environment.



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Introduction

Background

- 1.1 On 9th July 2009, London City Airport (LCY) was granted permission to increase the through to 2030.
- **1.2** The Travel Plan is a long term strategy and action plan that will evolve and contribute through to 2030.

Location and Existing Site

- 1.3 LCY is located in the Royal Docks, six miles east of the City of London, Europe's major surrounding area and transport system.
- **1.4** The permitted and existing use of the site is as an international airport. There are two Centre that serves non-scheduled corporate aviation.
- 1.5 Traffic at LCY is controlled by a range of both day-specific and annual limits on aircraft movements as set out in condition 8 of the planning permission.

number of annual aircraft movements from c.80,000 in 2006 to 120,000 (07/01510/ VAR). This planning approval forms the first step of London City Airport's Master Plan, which was published in November 2006 and sets out the Airport's growth aspirations

towards the Airport achieving the level of growth detailed in the Master Plan. It is a plan required by the Airport's 2009 Section 106 Planning Agreement (Part 1, Sixth Schedule), and developed to encourage passengers and staff to use sustainable transport modes to access the Airport where possible. This includes making the best use of public transport, including minimising the number of trips to and from LCY by single occupancy vehicles. For ease of use, this Travel Plan makes reference and targets for both passengers and staff. July 2009, London City Airport (LCY) was granted permission to increase the number of annual aircraft movements from c.80,000 in 2006 to 120,000 (07/01510/ VAR). This planning approval forms the first step of London City Airport's Master Plan, which was published in November 2006 and sets out the Airport's growth aspirations

financial district, and two miles east of Canary Wharf, London's new business centre located in the Docklands. It is just half a mile from ExCeL London, the Exhibition and International Convention Centre. Existing land uses in the vicinity of the site are varied and of mixed use: there are residential, industrial and commercial areas. Figure 1 (included at the end of this document), a site location plan, shows the airport site in relation to the

elements to the Airport; the main airport building with ancillary services and the Jet

The Airport Transport Forum and Airport Surface Access Strategy

- 1.6 In line with Government policy, LCY has established an Airport Transport Forum (ATF). The objectives of the Forum, which is made up of representatives of the Airport, local authorities, regional planning bodies, transport operators, infrastructure providers, local businesses and other interested bodies, are:
 - To make access to the airport more sustainable;
 - To draw up short term and long term targets for increasing the use of public transport by passengers and staff;
 - To devise an Airport Surface Access Strategy for meeting these targets to feed into the transport plan for London prepared and revised from time to time by the Mayor of London and into the local implementation plans to be prepared by the London Boroughs;
 - To monitor the implementation of the strategy.
- 1.7 The Travel Plan will work alongside the Airport Surface Access Strategy (available on the LCY website) with the Airport Transport Forum having a vital role in the development, implementation, monitoring and review of the Travel Plan.
- **1.8** The current LCY Surface Access Strategy was finalised in February 2005 and in line with Government Guidance the objectives of the strategy are to:
 - Encourage the use of public transport for journeys to and from the airport (for staff and passengers);
 - Offer a choice of efficient public transport;
 - Ensure access for the disabled:
 - Ensure access for employment;
 - Contribute to regeneration.
- **1.9** These objectives are compatible with the objectives of this Travel Plan. The current Airport Surface Access Strategy now requires review and modification following the extension of the Docklands Light Railway (DLR) to the Airport which opened in December 2005. This together with a further extension of the DLR south of the river to Woolwich in 2009 has encouraged a significant shift in travel patterns to and from LCY.

Travel Plan Scope

- 1.10 A travel plan is a package of site-specific initiatives aimed at improving the availability to and from the site, and to local amenities and services.
- **1.11** The Travel Plan considers journeys made by staff employed at the Airport and passengers sustainable modes of transport.
- **1.12** This Travel Plan sets out a strategy for managing single occupancy car use for journeys staff and passengers on the local road network'.
- 1.13 In addition to £50,000 paid by LCY towards a road capacity study of the local road road network.'

1.14 For clarity, this plan has been structured to include the following sections;

Section 2 –	will outline the accessibility situation.
Section 3 –	indicates objectives and ta
Section 4 –	outlines the Travel Plan str with marketing and consu
Section 5 –	sets out the measures that achieve the objectives and
Section 6 –	outlines the monitoring me
Section 7 –	provides a brief summary.

each of these key groups.

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and choice of travel modes to and from a development. It may also promote practices or policies that reduce the need for travel. Travel plans are becoming an increasingly important tool in the delivery of sustainable outcomes. They provide, together with transport assessments, a mechanism for assessing and managing access to sites. In addition, the initiatives contained within travel plans can help improve accessibility, both

and how they can be encouraged to travel to and from the site efficiently and using

to and from the Airport. This is in line with LCY's Section 106 Planning Agreement with the London Borough of Newham (LBN), which states '(the airport) shall use reasonable endeavors to agree with the council targets for managing any impacts of the airport's

network and impact the Airport has upon it, LCY has a commitment through its Section 106 Planning Agreement to a "Road Capacity Contribution". This contribution (of up to £190,000 index- linked) will be used by the relevant highway authority towards the cost of any mitigation works recommended by the study mentioned above. This contribution acts in line with "managing any impacts of the airport's staff and passengers on the local

essibility of the site and outlines the current

and targets for the site.

Plan strategy including how it is managed, consultation strategies.

res that have been implemented to help ves and targets of the Travel Plan.

ring methodology.

1.15 Sections Two to Four have been sub-divided into points relating to 'Staff Travel' and 'Passenger Travel' to highlight the different measures and targets for each audience and address the requirements of the Section 106 Planning Agreement to devise a plan for



Accessibility and Existing Travel Situation

Access and Egress

2.1 LCY is easily accessible by road via a signaled controlled junction on the A112 at its access via the A102/A2. There are no road access constraints.

Pedestrians and Cyclists

- 2.2 LCY is located close to a number of residential areas and there is an opportunity for staff signals.
- **2.3** When assessing the accessibility of a site to local facilities, including access to public Journeys on Foot (2000)').
- 2.4 The Institution of Highways and Transportation publication 'Guidelines for Providing for below as Table 2.1.

Table 2.1 - Extract from II	Table 2.1 - Extract from IHT 'Guidelines for Providing for Journeys on Foot'				
	Town Centres (m) Commuting/School (m)		Elsewhere (m)		
Desirable	200	500	400		
Acceptable	400	1000	800		
Maximum	800	2000	1200		



junction with Hartmann Road, which provides direct access to the Terminal Building and beyond to the Short and Long Stay Car Parks. The A112 runs east to west connecting with the A1020 just to the north of the Airport and with the A117 to the east, to the north of the Woolwich Ferry. LCY is approximately fifteen miles from the M25 to the north, access to which is via the A13 and A406/M11 and 16 miles from the M25 to the south,

living in these areas to walk or cycle to work. Bicycle parking is available for staff in the Short Term Car Park (14 spaces), and the Western Staff Car Park (14 spaces). Cycle parking for staff and passengers is available at at the Terminal Forecourt (30 bicycle spaces and c20 spaces for motorcycles). All of the streets in the area have footways and there are pedestrian crossings at the major junctions in the area, controlled by traffic

transport, an average walking speed of approximately 1.4m/s can be assumed, which equates to approximately 400 metres in 5 minutes or 3 miles per hour (mph). (Source: The Institution of Highways and Transportation publication 'Guidelines for Providing for

Journeys on Foot (2000)' contains guidance on the distances it is considered acceptable and desirable to expect people to walk for journeys of differing type. The table is recreated

2.5 Using the acceptable walking speed stated above and assuming an average cycling speed of approximately 9mph (three times faster than the walking speed), walking and cycling travel distances from the Airport Terminal Building are shown in Figure 2 (found at the end of this document).

Public Transport

2.6 London City Airport is easily accessible via public transport. The Airport Terminal is directly linked to the Docklands Light Railway London City Airport Station. This link connects the Airport quickly and easily with London's extensive public transport network, tube, train and bus.

Docklands Light Railway (DLR)

- 2.7 LCY was connected in December 2005 to London's public transport rail network via the Docklands Light Railway (DLR), which links directly into the Airport Terminal Building. The DLR was one of the first light rail systems in Britain, opening in 1987 to serve the first brownfield developments in Docklands. Since then, a number of extensions have taken place, extending the DLR to Bank, Beckton, Lewisham and in 2009 to Woolwich Arsenal via London City Airport. The DLR is now a significant railway which carries almost 70 million passengers per year¹.
- 2.8 There are a large number of potential public transport routes to LCY from across the London area, provided by various modes of transport. With the exception of the limited number of people who access the Airport by bus, the last stage of any public transport journey to LCY will necessarily use the DLR. The service frequency and first and last train times for the DLR at LCY are shown in Table 2.2.

Table 2.2 – Docklands LigLondon as at 5 November 2010	ht Railway: Service Freq	uency and Hours of Ope	ration – (Source: Transport for
Departure Times from Lor (Platform 1)	ndon City Airport to Woo	lwich Arsenal	
	First Train	Last Train	Frequency (Off Peak/On Peak)
Mondays to Fridays	05:15	00:59	Every 10 minutes/ 4 minutes
Saturday	05:19	00:59	Every 10 minutes
Sunday	06:49	23:59	Every 10 minutes
Departure Times from Lor (Platform 2)	ndon City Airport to Bank	or Canning Town	
	First Train	Last Train	Frequency (Off Peak/On Peak)
Mondays to Fridays	05:33	00:18	Every 10 minutes/ 4 minutes
Saturday	05:18	00:18	Every 10 minutes
Sunday	06:48	23:18	Every 10 minutes

2.9 The LCY website includes a link to the Transport for London DLR website and also an up locations from LCY using the DLR.

London City Airport to Central London

Option 1 – via Bank

Take the Docklands Light Railway from London City Airport direct to Bank. The journey time is approximately 22 minutes and the trains run at 4.5 minute intervals (10 minute intervals off peak). The Circle, District, Northern, Central and Waterloo and City lines, as well as London Overground are also available from Bank.

Option 2 – Liverpool Street via Stratford

Take the Docklands Light Railway from London City Airport direct to Canning Town and connect with the Jubilee line to Stratford. Take an overground train from Stratford direct to Liverpool Street. The journey time from Stratford to Liverpool Street is approximately 10 minutes and trains run at 15 minutes from Stratford.

Option 3 - West End (Bond Street) via Canning Town

Take the Docklands Light Railway from London City Airport to Canning Town to connect with the Jubilee Line. The journey time to Canning Town is approximately 7 minutes and the trains run at 4.5 minute intervals (10 minute intervals off peak). The journey time from Canning Town to Bond Street is approximately 23 minutes.

London City Airport to Canary Wharf

Option 1 – Via Canning Town

Take the Docklands Light Railway from London City Airport to Canning Town to connect with the Jubilee Line to Canary Wharf. The total journey time is approximately 14 minutes and DLR trains run at 4.5 minute intervals (10 minute intervals off peak).

Option 2 – Via Poplar

Take the Docklands Light Railway to Poplar to connect with a Docklands Light Railway service to Canary Wharf. The total journey time takes approximately 18 minutes and the trains run at 4.5 minute intervals (10 minute intervals off peak).

Overview of Connections

London Underground

2.10 The DLR connects to the London Underground at a number of stations, which provides London.

¹ www.tfl.gov.uk 18 November 2009

to date DLR route map. There are a number of options for transport to central London

good connections to London's public transport network for travel to central and outer

2.11 The DLR connects with the London Underground (tube network) at:

Canning Town (Jubilee Line) 3 stops from LCY

West Ham (District Line, Hammersmith & City Line, Jubilee Line) 4 stops from LCY on DLR and Jubilee Line

Stratford (Central Line) 5 stops from LCY via Jubilee Line

Shadwell (East London Line) 9 stops from LCY

Bow Church/Bow Road (District Line; Hammersmith & City Line) 10 stops from LCY

Bank (Central Line; Northern Line; District Line; Circle Line; Waterloo & City Line) 10 stops from LCY

Tower Gateway/Tower Hill (District Line; Circle Line;) 10 stops from LCY

Train

2.12 The DLR also connects to London's extensive London Overground railway network at a number of stations;

Woolwich Arsenal (South Eastern Line) 2 stops from LCY on the DLR

Stratford (One Railway and London Overground) 5 stops from LCY on DLR and Jubilee Line

Limehouse (c2c Line) 8 stops from LCY on the DLR

Tower Gateway/Fenchurch Street (c2c Line) 10 stops from LCY on the DLR

Greenwich (South Eastern Line) 15 stops from LCY on the DLR, or 12 stops on the DLR and Jubilee Line.

Lewisham (South Eastern Line) 18 stops from LCY on the DLR, or 15 stops on the DLR and Jubilee Line.

- 2.13 The London Overground provides easy connections from destinations such as Richmond, Highbury & Islington, Camden Road or West Hamstead to Stratford, with connections on the Jubilee Line and Docklands Light Railway to London City Airport.
- 2.14 The c2c Line runs east from Fenchurch Street Station along the north bank of the Thames serving destinations in Essex such as Barking, Tilbury, Basildon and terminating at Shoeburyness. These services can be easily accessed by interchange at Limehouse (8 stops from LCY on the DLR) and West Ham (4 stops on DLR and Jubilee Line).
- 2.15 The One Railway Line provides services from Liverpool Street Station, including the Stansted Express, with services to destinations such as llford, Romford, Brentwood Braintree, Colchester, Stratford, Southend and Harwich.

- 2.16 The South Eastern Metro and MainLine is accessible via Woolwich Arsenal. Lewisham or including:
 - Dartford Gillingham Hayes Sevenoaks Ashford International

Bus

- 2.17 There are two London Transport bus services available for local journeys to and from I CY.
- 2.18 The 473 bus serves North Woolwich, Silvertown, London City Airport, Prince Regent, with the last bus at 00:16 (00:18 Sunday).
- 2.19 The 474 bus serves Canning Town, North Woolwich, East Beckton, East Ham and period frequency of 10 - 13 minutes.
- 2.20 A further 11 bus services call at Canning Town DLR station, 3 stops on the DLR from (No. 232) and Manor Park for the Woolwich Ferry (No. 474).

Taxis and Private Hire

- 2.21 There is a taxi rank (for black cabs licensed by the Public Carriage Office) directly outside the Terminal Building.
- 2.22 Private mini cabs are based off-site and passengers and staff are able to pre-book this service.
- 2.23 A chauffeur service is based on-site in the Airport Terminal.
- 2.24 Car rental companies are based onsite, outside the terminal, for passengers wishing to hire a car.

Greenwich DLR stations and runs from Charing Cross, Blackfriars, Victoria and Cannon Street Stations. The South Eastern Lines serve stations in south London and further,

Tunbridge Wells and the Kent Coast (including Dover and Folkestone).

Plaistow and Stratford. The service departs every 9 to 13 minutes from the terminal forecourt. Buses operate from Stratford from 05:04 (06:11 Sunday) with the last bus at 01:14 (Monday to Sunday). First bus from North Woolwich is at 04:30 (05:39 Sunday)

Manor Park via Silvertown. The service operates 24 hours a day with a typical peak

the Airport. Buses on these routes call at a wide range of destinations including Romford (No. 5), Stoke Newington (No. 276), Bethnal Green (No. 309), Stratford (No. 241), Ilford (No. 147) and Walthamstow (No. 69), Aldgate (No. 115), East Ham (No. 300), Mile End

London City Airport Staff Travel Patterns

- 2.25 There are currently just over 2000 employees working on-site at LCY. There are a number of modes of travel available to these employees and the Airport provides facilities to support these methods.
- 2.26 In the development of this Travel Plan, London City Airport conducted a Staff Travel Survey in October 2009. This survey was undertaken by an independent market research company and yielded responses from approximately 40% of all staff on-site.
- 2.27 One of the key results of the Staff Travel Survey is the normal transport mode share for staff. These results are shown below in Chart 2.1.

Chart 2.1 – Staff Last Mode of Transport Normally Used (Source, LCY Staff Travel Survey, October 2009)



- 2.28 At December 2009, LCY Ltd itself directly employed 403 people of the c.2000 working on-site at LCY.
- 2.29 Approximately 60% of employees working on the Airport site work shifts, which generally Services, Airport Fire Service and the Jet Centre.
- 2.30 Most staff are unable to access LCY for early shifts by public transport due to the

Staff Travel by Car

- 2.31 According to the 2009 Staff Travel Survey, 59% of staff drive to work by private car alone.
- 2.32 LCY Ltd provides an annual car parking pass to its employees within the staff remuneration the cost to their company.
- 2.33 There is currently no car share programme at LCY, although some staff do share lifts colleagues.

Staff Travel by Public Transport

2.34 The numerous options for staff to travel to LCY via public transport are outlined in section two.

Staff Travel by Walking and Cycling

- 2.35 Bicycle racks are available for staff use at the terminal forecourt under the DLR (30 to work.
- 2.36 LCY is easily accessible by foot via Hartmann Road (from Albert Road) or via the access public access gate is shown in Figure 3 at the end of this document.

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fall between the hours of 05:00 and 22:45. Shift workers employed by LCY Ltd work in the departments of Customer Services, Airfield Operations, Aviation Security, Ramp

commencement of their shifts generally being before public transport begins operating.

package. There are currently 281 parking spaces available to staff in the main car parks adjacent to City Aviation House, 10 in the terminal staff parking area (commonly known as "the triangle") and 52 in the western end car park. These spaces are available to the employees of all companies operating onsite at London City Airport. LCY Ltd makes a charge to other companies on site for car park passes, who then supply to their staff at

to work. The 2009 Staff Travel Survey indicated that 5% of staff normally car share with

spaces). During 2010, new bicycle cages were installed for staff use in the short stay and western end car parks, each with 14 cycle parking spaces. Showers and changing facilities are available in City Aviation House, Ramp Services Department (Ledger Building), Airport Fire Station and Jet Centre for use by LCY Ltd employees who cycle

gate to the terminal forecourt from Newland Street in Silvertown. The location of the

London City Airport Passenger Travel Patterns

- **2.37** LCY undertakes passenger satisfaction research over two week period, on a quarterly basis with a minimum sample size of 250 passengers. As part of this research, passengers are asked to provide their last mode of transport to the Airport. The results of the 2009 survey are summarised in Chart 2.2.
- **2.38** The results of this survey show that 66% of passengers currently travel to the Airport by public transport (including licenced black taxis), and that only 3% travel by private car parked at the Airport. The DLR is the most commonly used mode of transport for passengers, with 47%, followed by 18% of passengers using black taxis.
- **2.39** Licenced black taxis perform an important role as a public transport provider by reducing the passenger's reliance on the private car. They are particularly useful for passengers using the Airport from Central London and Canary Wharf because they are not restricted to a timetable or constrained by fixed routes. There are no direct DLR services between LCY and Canary Wharf at the time of publication of this document.
- **2.40** Further data regarding the use of taxis from the Airport was recorded during surveys undertaken at the pick-up zone outside of the Airport in September 2010. These surveys recorded that the average occupancy rate for taxis departing from the Airport is 1.46 passengers (excluding driver).



Chart 2.2: Passengers' Last Mode of Transport (%), 2009



16 London City Airport Travel Plan



Objectives And Targets

Objectives

- **3.1** This Travel Plan is primarily aimed at reducing the dependence of London City Airport passengers.
- **3.2** Therefore the main objectives of this Travel Plan are:
 - To increase employee and passenger awareness of and access to sustainable modes of travel;
 - To facilitate access to appropriate travel information for employees and passengers;
 - To reduce the impact of the site on the local highway network;
 - To reduce unnecessary or unsustainable use of the car for the journey to and from the site.

Targets

3.3 The existing travel patterns for staff and passengers are significantly different and divided into targets relating to staff travel and targets aimed at passenger travel.

Staff Travel Targets

- 3.4 As detailed in Section 2 of this document, there are currently about 2,000 employees staff drive a private car alone to work.
- **3.5** The target for staff travel is to restrict the number of staff driving to the site by single driving to LCY each year by single occupancy car is shown in Table 3.1.



employees on travel to and from work by single occupancy car, managing any impacts of LCY staff and passengers on the local road network (S.106 Sixth Schedule, Part One 3 (c)) and to continuing to promote the use of sustainable modes of transport to LCY

therefore, the Travel Plan targets are different for each group. This section has been

working at the Airport. The 2009 Staff Travel Survey shows that approximately 59% of

occupancy car to existing car borne levels. Therefore, as the number of staff working at the Airport increases, the percentage that drives to the site should reduce. On the assumption that the number of staff will grow uniformly, the target mode share for staff

Table 3.1 – Target Mode Share for Staff Driving to L	ondon City Airport
Year	Modal Share
2009	Base
2011 ²	-10%
2012	-17%
2013	-23%

Passenger Travel Targets

- 3.6 The proportion of passengers that drive and park at LCY is very low (3%), as shown in Chart 2.2. Therefore, whilst the Airport will continue to promote the use of non car modes of travel to and from the site, it will be difficult to achieve significant changes to the level of passengers that currently travel by this mode. However, London City Airport will continue to monitor car park charges on-site at the Airport to endeavour to encourage Airport passengers to use public transport wherever possible. LCY will report changes to its car park charges with the London Borough of Newham and the Airport Transport Forum when reporting on the performance of the Travel Plan. Airport car park charges will also be considered against the backdrop of local parking arrangements to ensure that local residents are not negatively impacted by increased passenger parking charges on-site.
- **3.7** LCY is committed to increasing the proportion of passengers arriving by public transport, including the DLR. It is anticipated that the DLR capacity and service enhancements which are planned will encourage a further increase in the proportion travelling by DLR. A corresponding reduction in car and taxi use is therefore expected. A £2,500,000 contribution towards the DLR improvements from LCY as set out in the Section 106 Planning Agreement and the encouragement of airlines to promote the DLR onboard flights are the first steps to supporting a further increase in DLR by Airport passengers.
- 3.8 LCY will closely monitor the passenger mode share and this will form an integral part of the Travel Plan monitoring process. This will report the proportions of passengers travelling by each mode, enabling the anticipated increase in public transport and reduction in private transport modes to be recorded.

- 3.9 There are several reasons why some passengers cannot use public transport for their with disabilities.
- **3.10** After the DLR, the second most popular mode of passenger travel to and from the Airport service between LCY and Canary Wharf.
- 3.11 The Travel Plan target for passengers aims to increase the efficiency of this mode of from the Public Carriage Office to run a taxi share scheme.
- 3.12 While LCY is not currently convinced that a taxi share scheme is in the interests of Office is invited.
- **3.13** Taxi occupancy rates will be monitored by LCY.
- 3.14 The measures that will be implemented to achieve these targets are detailed in Section 5.

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journey to and from the Airport. These include the amount of luggage they may have, no available public transport options from their origin/to their destination and passenger disabilities. London City Airport will continue to provide parking subsidies for passengers

is taxi. The typical occupancy of taxis travelling from the Airport is 1.46 passengers. The increase in passengers as a result of the 2009 planning approval may increase demand for this mode of travel in the coming years, particularly in the absence of a direct DLR

transport by increasing the occupancy of taxis travelling to and from the Airport at peak times. A minor but useful improvement can be achieved if LCY were to gain permission

passenger comfort, safety or security, it will continue to monitor this situation and the level of demand. Research into demand for this service has been gauged through special questions included in the Airport's regular passenger satisfaction research. Feedback from these special questions was received in July 2010 and will be discussed with the London Borough of Newham and Airport Transport Forum, to which the Public Carriage

² After review by the London Borough of Newham and subsequent updates by London City Airport, this Travel Plan was approved in early 2011. Following approval, the Airport is required through Section 106 Planning Agreement to implement the measures of the Travel Plan within six months. The first Staff Travel Survey following implementation of the Travel Plan measures therefore will take place in 2011 after these six months have passed.



Travel Plan Strategy

Management

4.1 LCY Ltd as the owner and operator of the Airport is responsible for the existing and implementation of the Travel Plan.

Travel Plan Coordinator

- **4.2** The main element of the proposed management structure for the Travel Plan is the appointment of a Travel Plan Coordinator to oversee all elements of the Travel Plan.
- 4.3 The Travel Plan Coordinator is an existing staff member employed by LCY Ltd who Coordinator to produce, implement, monitor and update a high quality Travel Plan.

Staff Travel Strategy

- 4.4 LCY Ltd is directly responsible for the c400 people it employs at the Airport which site.
- **4.5** Each individual employer (55 in total) with staff at the Airport will be encouraged to take and promote, travel surveys.
- 4.6 The responsibilities of the Travel Plan Coordinator include providing the interface between measures.
- 4.7 The first task in the development of this Travel Plan has been to undertake a comprehensive and robust Staff Travel Survey (October 2009).

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ongoing management of the site and as such will be responsible for the production and

has taken on the role as part of their job. The Coordinator has the full support of senior management with regards to the implementation of the Travel Plan. The staff member has skills and knowledge relevant to this responsibility, participating in regular Transport for London Travel Planning Conferences. This level of skill and training will enable the

is approximately 20% of the total workforce currently employed on-site. Every person employed at the Airport is subject to the Travel Plan. The Travel Plan Coordinator is responsible for providing information regarding the Travel Plan to other companies on

part in the Travel Plan process and where practical would appoint a member of staff at the Airport to be the point of contact with the site wide Travel Plan Coordinator. This staff member will be designated as a Travel Plan Champion within each organisation. Any new or renewed lease arrangements will include a clause requiring that tenants liaise with the Travel Plan Coordinator, adhere to the Travel Plan and agree to participate in,

all parties on the site, reporting to the local authority, and monitoring the progress being made towards site-wide transport objectives and the provision of sustainability

- **4.8** The Travel Plan Coordinator is responsible for all aspects of the site-wide Travel Plan and their primary functions include:
 - Promotion of sustainable transport measures to employees;
 - Liaison and cooperation with the local planning, highway authorities and with local public transport operators;
 - Liaison and cooperation with other Travel Plan Coordinators located in the area in order to coordinate efforts, measures and initiatives. There is potential for synergy with regards to area wide Travel Plan networks;
 - Overseeing the Travel Plan Champions of other companies onsite at the Airport;
 - Promotion of the objectives and benefits of the Travel Plan;
 - Organisation and undertaking of the required travel surveys;
 - Maintenance of all necessary systems, data and paperwork; including a car share scheme (if found to be an appropriate measure);
 - Acting as the point of contact for information and exchange of ideas;
 - Establishing a Working Group from members of the Airport Transport Forum, which includes staff representatives from each of the 55 employers at the Airport, the local planning and highway authorities and local public transport operators. This group would aid in the development, implementation, monitoring and review of the Travel Plan.
 - Monitoring the achievements and performance of the Travel Plan and reporting back to the senior management of LCY Ltd; the Working Group; and Airport Transport Forum.

Marketing Strategy

- **4.9** Different methods of marketing the Travel Plan are employed to maximise the impact of the different measures to be implemented, including providing appropriate sustainable transport information.
- **4.10** Methods used and planned for disseminating information include:
 - Payslips;
 - Staff briefings;
 - Staff notice boards and information points;
 - Induction packs/seminars;
 - Staff Training;
 - "The Chronicle" the Airport staff newspaper;
 - London City Airport Website and Intranet;
 - Staff Association;
 - LCY Employers' Forum;
 - Airline Operators Committee;
 - Provision of information on ID pass forms.







Sustainable Travel Measures

- 5.1 To help facilitate and promote the use of sustainable modes of transport for journeys to relevant Local Authorities.
- 5.2 Changes, where reasonable and achievable, will also be made in response to results of the 2009 Staff Travel Survey and future Staff Travel Surveys.
- 5.3 The list is by no means exhaustive. The actual measures implemented by employers and number of employees, and financial ability to implement certain measures.
- 5.4 The regeneration agenda in Newham also encompasses job creation and initiatives Communities Agenda.
- 5.5 For the purpose of this plan, suggested measures have been focused on staff travel, enhancements.

On and Off-site Enhancement

Walking and Cycling

- 5.6 As part of the Travel Plan the environmental and health benefits of walking and cycling campaign'.
- 5.7 The formation of walking and/or cycling clubs will be considered, which will encourage during the working day (journey to work, lunchtimes) or out of work hours.
- 5.8 The Travel Plan Coordinator will investigate possible discounts for employees with local shops.
- 5.9 The Travel Plan Coordinator will encourage employers to offer their employees an interest operates a 'Cycle to Work' scheme in partnership with Halfords Cycle shop.
- 5.10 The 2009 Staff Travel Survey shows that approximately 67% of all staff on-site are aware staff welfare in regard to the availability of showering and changing facilities.

and from the Airport and manage the impacts of the LCY's staff and passengers on the local road network, a variety of measures will be implemented. The measures outlined below are proposals only and will evolve through discussions between LCY Ltd and the

may vary between employers because of the varying nature of their businesses, type

designed to encourage people to live and work locally as part of the Sustainable

with passengers benefiting from the improvements made to public transport and site

to work will be emphasised to staff, e.g. promotion of the. '10,000 steps a day

staff to walk and/or cycle together for commuting as well as leisure purposes either

cycle shops and the potential for holding cycle maintenance workshops with local cycle

free loan for the purchase of a cycle and relevant safety equipment. LCY currently

of the cycle parking facilities and 46% are aware of the showering and changing facilities. Staff showering and changing facilities are currently provided only by LCY Ltd. The Travel Plan Coordinator will encourage employers on-site to make arrangements for their own

- 5.11 Cycle routes and other cycling information will be provided on notice boards and in induction packs.
- 5.12 Surface access improvements to the Airport for pedestrians and cyclists in the surrounding transport network will be considered and discussed with the relevant local authorities. Such improvement could enhance the role of walking and cycling as important modes of travel for airport employees who live in the surrounding area.

Public Transport

- 5.13 LCY is easily accessible to London's integrated public transport system.
- 5.14 Contact numbers and web details for the various transport providers and services (e.g. DLR, London Underground, TfL, National Rail Enquiries) as well as light rail, tube, rail and bus timetables and route maps and local taxi company details will be prominently displayed on notice boards. This information is also available at the terminal information desk.
- 5.15 LCY Ltd introduced the provision of season ticket loans to its employees from summer 2007. The Travel Plan Coordinator will encourage all employers at the Airport to offer their employees the provision of season ticket loans where possible.
- 5.16 The London City Airport Master Plan states that public transport should operate earlier to enable shift workers to arrive at the Airport in time for a 05.00hrs start. The Travel Plan Coordinator will investigate the possibility of this with public transport operators.

Docklands Light Railway

- 5.17 The extension of the DLR in 2005 to LCY has resulted in this mode of transport becoming the second most used mode of access to the Airport for staff after private car (19%, 2009), and the most popular mode for passengers travelling to the Airport (47%, 2009). The further DLR extension in 2009 to Woolwich Arsenal has given staff and passengers south of the river access to the Airport.
- 5.18 Upcoming developments to the DLR network include the introduction of a three-car service for all major routes, due to be completed in 2011. An extension to Stratford International is also being introduced in 2011, providing a direct link between London City Airport and Stratford International Station.
- 5.19 Through the Airport's Section 106 Planning Agreement, it is required to contribute the sum of £2,500,000 to the Council towards the cost of providing DLR service enhancements.

Bus

- 5.20 Bus route 474 is a 24 hour service, which provides a link to the 24-hour bus network. The network has a fairly significant coverage of the areas of East London where some airport shift-workers are likely to live.
- 5.21 As part of LCY's Section 106 Agreement with the London Borough of Newham, the Airport in 2009 paid £20,000 towards the improvement of local bus services to serve the Airport. LCY welcomes information on the precise nature of service enhancements and improvements to infrastructure that are forthcoming.

Taxi Share

5.22 LCY will continue to monitor the demand for a taxi-share scheme. The Airport is not passengers in regards to safety and security.

Car Share

- 5.23 A car share scheme is an effective way to reduce single-occupancy car trips made to the workplace.
- 5.24 The Travel Plan Coordinator will set up an informal car share database for all developments.
- 5.25 An effective car share scheme necessarily includes the provision of a Guaranteed Ride public transport for the stranded employee.

Induction Packs/Seminars and Other Information Provision

- 5.26 Induction packs are provided on commencement of employment to new employees. Section 106 Planning Agreement commitment.
- 5.27 The provision of information of alternatives to the car is an important aspect of travel plans contain the following information:
 - A summarised version of the Travel Plan document, that sets out the purpose and benefits etc:
 - Timetables and route maps for public transport if available from TfL;
 - London Underground, TfL, National Rail Enquiries);
 - Local taxi company details;
 - Cycling and walking maps for the local area if available from TfL; and
 - Web details for any community travel sites and Community Forum sites.
- 5.28 Public transport and other travel related information will also be displayed prominently Plan Coordinator.

currently convinced that a taxi-share scheme is in the best interests of its staff and

employees of LCY. This could be opened up to include the employees of surrounding

Home Scheme (GRHS) in the event that a ride falls through and alternative modes of transport are not available, or an employee needs to return home quickly in the event of an emergency. This may simply involve the provision of subsidised (free or partial) taxi or

They contain information on public transport services close to the employee's home and other measures for encouraging use of non-car modes of travel, in line with LCY's

and can be easy to deliver to employees via a number of media e.g. email, circulation with payslips, intranet etc. All employers and employees will receive the packs which will

Contact numbers and website details for transport providers and services (e.g. DLR,

within the Airport and will be added to displays in communal staff areas by the Travel



Monitoring And Review

Monitoring

- 6.1 The LCY Travel Plan Coordinator will monitor the travel behaviour of employees and programme.
- 6.2 The Travel Plan will be monitored annually on the anniversary of the initial employee monitoring purposes and is known as Year 0.
- **6.3** The standard employee questionnaire requests the following information:
 - origin and destination postcodes (full if known);
 - main mode to work form of travel used for the greatest amount of time,
 - final mode into work the last form of travel used before arriving at the site,
 - first mode out the first form of travel used when leaving work;
 - main mode out form of travel used for the greatest amount of time;
 - car parking location (if applicable);
 - if the employee has a disability affecting their travel to work; and
 - the reasons staff who travel to work by car choose this mode of travel
 - measures that would encourage the use of non car modes of transport and car sharing.
- 6.4 Additional monitoring of the following is also useful to judge whether the implementation monitored on a constant basis:
 - the level of usage of cycle stands;
 - the level of usage of motorcycle parking;
 - demand for additional cycle and motorcycle parking facilities;
 - the take up of the car sharing scheme;
 - taxi occupancy levels
 - the Travel Plan.
- 6.5 The results of any monitoring will be reported back annually and discussed with Officers reviewed and measures amended to help achieve the targets.

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passengers on a regular basis. The exact form that this monitoring will take will be discussed with the London Borough of Newham although it is proposed that passenger travel will continue to be monitored as a part of the Airport's regular passenger survey

baseline travel survey. This baseline survey represents the start of the travel plan for

or proportion of certain measures needs to be modified. These factors should be

• comments received from employees relating to the operation and implications of

of the London Borough of Newham. Where necessary the Travel Plan targets will be

Review

- **6.6** Reviewing the Travel Plan will occur at two levels. The first is a basic review of targets and measures, which will occur in 2011 and 2012. These monitoring surveys will show whether targets are being met and whether the measures implemented are having the desired effect on employee and passenger travel.
- **6.7** The second level involves the Travel Plan Coordinator undertaking a full and comprehensive review of the Travel Plan in 2013. This review may involve updating the Travel Plan document to account for future growth at the Airport proposed in the Airport's Master Plan. The review will consider changes to transport availability, staffing changes, changes in travel patterns, and revisions to targets and measures.



Figures

Figure 1: Location of London City Airport



Figure 2: Pedestrian and Cycle Distances



Figure 3: Location of Public Access Gate Map



Appendix A

London City Airport Staff Transport Survey 2009 Questionnaire Distribution and Response

The Staff Travel Survey 2009 was distributed to both London City Airport Ltd employees and employees of external companies by the Helen Lancaster Research Company. Surveys were interviewer administered throughout a two week period in November 2009, with results expected in 2010. A copy of the survey is shown below:

						X
					LondonCityAirport	
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	1	y /		P		
Staff Trave	el	S	ur	ve	V	
					,	
London City Airport is a transport, including DLF services and facilities for help us by answering t and answers will not be	comn R, bus or bo he fo linke	hitted s, walk th sta llowin d to in	to in king, o ff and ig qui ndivid	nprovin cycling d visiti estion luals.	ng access to our site by all modes of g and car. In order to plan and improve ors, we would be grateful if you could is. All questionnaires are anonymous	6
SECTION A: ABOUT	ΓΥΟ	UR J	OUR	NEY	TO WORK (interviewer administered)	82
 How long does it normally tak rork? (Please tick) 	ke you	to get t	0		A4 Why do you travel to work by (Mode of transport spent most time on)? (Please tick up to three)	
0 - 15 minutes					Dropping off/collecting partner/children	
16 - 30 minutes					Health Reasons	
31 - 60 minutes					Environmental reasons	H
1 – 1.5 hours				8	Time savings	
over 1.5 hours					Lack of alternative from where I live	
2. What postcode do you travel t	to work	from?			Cheaper than alternative	
ivitte in tuil postcode)					Too early for public transport	
					Weather	
					Wedniel	
					Reliability	
3. How do you usually travel to w	vork? li	n gener	ral,		Reliability Comfort	
 How do you usually travel to v ow long is your journey in/on(vork? li Write t	n gener ime in	ral,		Reliability Comfort Personal safety	
3. How do you usually travel to w ow long is your journey in/on(ninutes in relevant box)	vork? li Write ti	n gener ime in	ral,		Reliability Comfort Personal safety Quicker than alternatives	
 How do you usually travel to w ow long is your journey in/on(ninutes in relevant box) 	vork? li Write ti	n gener ime in	ral,	dth	Reliability Comfort Personal safety Quicker than alternatives Other (please specify)	
3. How do you usually travel to w ow long is your journey in/on(ninutes in relevant box)	vork? li Write ti 1st	n gener ime in 2nd	al, 3rd	4th	Reliability Comfort Personal safety Quicker than alternatives Other (please specify)	
13. How do you usually travel to v ow long is your journey in/on(ninutes in relevant box) Drive own car alone	vork? li Write ti 1st	n gener ime in 2nd	al, 3rd	4th	Reliability Comfort Personal safety Quicker than alternatives Other (please specify)	
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3. How do you usually travel to v ow long is your journey in/on(<i>ninutes in relevant box</i>) Drive own car alone Get lift in someone else's car, either a relative or friend	vork? In Write t	n gener ime in 2nd	al, 3rd	4th	Reliability Comfort Personal safety Quicker than alternatives Other (please specify) A5. What other forms of transport do you ever use to get to work? (<i>Tick all that apply</i>) Drive own car alone Get lift in someone else's car, either a relative or friend	
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TO WORK OR USE A CAR SHARE	
ould you be prepared to car share with a co	olleague?
Yes	
No Lakeady car share	
Help in finding car share partners with similar work hours Free taxi home or to work if let down by car share driver Preferential parking spaces for	
car sharers Nothing Other (please specify)	

SECTION C: TRAVEL BY PUBLIC TRANSPORT, CYCLE OR WALKING

SECTION C IS TO BE COMPLETED BY EVERYONE. IF YOU ALREADY USE THE TRANSPORT IN QUESTION PLEASE TICK WHICH IMPROVEMENTS YOU WOULD MOST LIKE TO SEE



C13. Which of the following improvements would		
most encourage you to use the PUBLIC		
TRANSPORT for your journey to work? (Please tid	ak .	
three. If you already use the public transport pleas	e	
tick the improvements you would like to see)		
Loss annuding	1	C17.
Less crowding Mars direct convict	E.	
More fragment convince	H	
Endier exercise fines	H	
Earlier operating times	H	
Later operating times	H	
More reliable services	H	
Cleaner/smarter trains/buses	Ц	
and bus stations	171	
Increased security on trains/ buses	11	
& at stations	-	
Subsidised fares		C18
Annual season ticket loan		
Easier access to timetable information		
Up to date travel information at work on		
routes, times and fares		
Having my journey planned for me		
Nothing		
Other (please specify)		
C14. Which of the following would encourage you to		
WALK to work? (If you already walk please		1
tick the improvements you would like to see)		8

Better quality and safer footpaths	
Improved street lighting	
Improved road crossing facilities	
Availability of walking partner	
Changing facilities, showers &	
lockers at work	
Provision of a personal alarm/other	
safety equipment	
Nothing I live too far away	
Other (please specify)	

Improved	cycle path	is/lanes on		
journey to	work	25 42		
Improved	and secur	re cycle parki	ng	
at the airp	ort	76 BID	10	
Changing	tacilities,	showers & lo	ckers	
at work	an lang ta	numbers a b	aika	-
Discounts	ee loan to	ike shoes	JIKE	
Informatio	a nocar o	ike shops	location	
of facilities	n on cycle	e routes arru i	location	-
Oncite his	a nanai	r conico		-
Nothing	yoie repai	1 Del Vide		-
Other (ple	ase speci	fy)		
in hereiter			augustable at the	10 A
City Airport?	re mai cyc	ae parking is	available at Lt	moon
City Airport?				
Yes				
No				
	82	55 S.W	76 1988	
C17. Are you awa	re of any s	showers at Lo	ondon City	
Airport availa	able to sta	ff who walk o	r cycle to work	(?
If yes: When	e are they	located?		
Yes, awar	e of show	ers		
- at City A	viation Ho	use		
- at Fire S	tation			
- at Jet Ce	entre			
- at other	place (writ	te in)		
No, not av	ware of an	y showers		
18. Would you c	onsider ta	king part in .	?	
Walking a	ctivities or	ad/or club co.	batenihoo	
by the air	nort		ordinated	
by the dif	PS	П	No	
Cycling a	tivities an	d/or club co-	ordinated	
by the air	port.		or diritized	
Y	es		No	
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And in case of the local division of the loc				

work? (If you already cycle please tick the improvements

you would like to see)



25. What is your role? Are you? (Please tick)	
Staff (agent, operative, officer,	H
Supervisory (team leader, duty officer)	
Management (manager, director, pilot)	
26. Do you normally work full time or part time?	
Full time	
Part time	
27. Do you work shifts or fixed office hours (e.g. 090	10-1730)?
Shifts	
Fixed hours	Ë
28. Please indicate if you work weekends only or evenings only.	
Weekends only	
Evenings only	
Neither	
29. What is your earliest start time? Write in using 24 hour clock	
What is your latest finish time?	
Write in using 24 hour clock	
 Please write any other questions, comments or suggestions related to travel to work below. 	
Office only	
Interviewer number:	
Monday or Tuesday or Wednesday or Thu	irsday 🗅
monday is recorded a me	
Friday 🗆 Saturday 🗆 Sunday 🗆	

TRAVEL PLAN COORDINATOR

020 7646 0025

London City Airport City Aviation House Royal Docks London E16 2PB

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Your City Commuter

Better Travel Choices for Airport Employees



Welcome

We've turned traditional travel planning on its head with the creation of Your City Commuter.

Our ambition is still the same – we want more airport employees to travel sustainably. However the way we have approached this is very different. London City Airport is unlike other airports. Being the only airport in London puts us in an unusual position. It is great because of the public transport services that connect to the airport – but it does means the ways we can encourage more employees to travel sustainably are very different. That's why we need a different approach to staff travel planning at London City Airport.

We've developed Your City Commuter as the umbrella plan for anything that helps encourage staff out of their cars and on to buses, trains, the DLR or the tube. It has also been created in such a way as to get people thinking about alternative modes of transport where possible - such as carsharing, using a bike or walking to work. Your City Commuter is our way of bringing all staff travel options together in one place and providing all the information you'll need about the services available. All we are asking in return is that the information contained in Your City Commuter is used to encourage everyone at the airport to commute sustainably and that you provide feedback on how well it's working.

Your City Commuter is the travel plan for the airport community and we look forward to working on it together.

Our Sustainable Strategy

London City Airport wants to grow in a sustainable way and our Sustainability Strategy and Airport Sustainability Action Plan 2012 sets out our approach to achieve this. We're committed to assessing our impacts and acknowledging where we can make improvements. With over 2,000 staff working at the airport we have to look at how we can minimise any impacts on local congestion, local air quality as well as the airport's carbon footprint resulting from the 900,000 journeys they make every year.

Your City Commuter is part of our Airport Surface Access Strategy (ASAS). This is the overarching strategy that establishes our approach to encouraging airport staff and passengers to travel sustainably. The ASAS is aligned with the airport's operating agreement with Newham Council and with our growth plans. In the same way that Your City Commuter sets out the actions we will take for airport staff we have a similar plan aimed at passengers.



A Fresh Approach

To help shape this staff travel plan we talked to around 25 on-site companies about the travel issues facing their employees, and through an online shapshot survey we asked almost 25% of the airport workforce 12 key transport questions.

The survey results indicate that 39% of people use more than one type of transport on a daily basis. More importantly if you take out those trips which include a car, 32% of people still use more than one transport method. We know from talking to staff that some airport workers use different types on different days according to their shift pattern, whilst others will use three or four different means of travel in a single journey. This shows that the employee appetite for public transport is there and - with a focused approach - this can be developed further.

We know that just under a third of employees live within Newham which means public transport is a realistic option, as is walking or cycling to work. This is reinforced by the fact that only about 40% of employees rely mainly on their car for the journey into work.

According to the survey results, employees are now starting work earlier with 67% of respondents starting work by 6am and a further 10% by 7am. Depending on when public transport starts in the morning, this could be a reason why employees are using several types of transport or relying on their car when travelling to London City Airport.



Our Priority Areas

We've had to be creative in coming up with a travel plan that pin points areas of possible improvement rather than setting an overarching target. The actions defined within this travel plan are based on the journey profiles derived from feedback received from airport companies and employees. To aid the delivery and monitoring of these actions we have, for the first time, split these into priority areas. With this targeted approach we will aim to encourage airport employees to travel more sustainably where possible. The priority areas are;



This approach provides a focus on the key opportunities which will encourage airport employees to take advantage of the sustainable transport options available at London City Airport, as well as making sure we're addressing the issues that are important to our stakeholders. We will continue to maintain staff parking levels at a rate comparable with the 2009 provision and in line with existing agreements with Newham Borough Council, and we will continue to review staff parking capacities as our travel plan develops.

Working With You

We've designed Your City Commuter to be a user friendly travel plan. Through our travel plan co-ordinator we are committed to providing you and all airport staff with up to date and relevant travel information. In order to do this we will provide travel leaflets, posters for your crew and rest rooms and regular travel updates - all in a format that you can use. We'll also liaise with transport operators on your behalf to negotiate improved services to the airport.

All we ask in return is that you nominate a travel co-ordinator within your organisation. All they will need to do is promote this information to your employees and provide feedback to us on anything travel related.

This could be as simple as asking for travel information in a different format, or letting us know if staff from a certain location are struggling to get to work. We can then try and do something about it.

The Role of the Employer at LCY



Travel Options

DLR

The Docklands Light Rail runs throughout the day connecting the airport to a range of locations and transport interchanges. As the DLR connects into the terminal many staff will use the service for the final leg of their journey into the airport.

Car & Carsharing

We understand that many employees are unable to travel by public transport due to home location or shift patterns. It's important that we continue to provide safe and secure parking facilities while also looking at sustainable options such as carsharing or use of electric vehicles.

Bus

While only two services provide direct connections to the airport they do connect with other services at local transport interchanges. Some routes offer a 24 hour service.

Underground

The DLR connects to the Underground at a number of locations providing access to a range of locations across London.

Train

There is no rail station on-airport but the DLR provides connections to a range of stations providing interchange facilities across the region.

Cycling & Walking

The healthy option! Even if you can't make it all the way to work you may be surprised by how short the walk or ride may be to your nearest station.

Information

We'll work with Transport for London (TfL) and others to provide airport employees with access to information that helps them choose the most sustainable mode of transport that works for them.

The Actions Behind the Plan

We have identified a series of actions that will ensure airport employees continue to make sustainable travel choices. Some of these actions are for us to deliver, while others can only be achieved by working with our stakeholders, you being a pivotal one. We'll review progress against each action annually and replace any completed or redundant actions with something more relevant if required. This means our approach reflects current priorities while working towards longer term objectives set through our Surface Access Strategy.

Section	No.	Action	2013	2014	2015
Travel Plan	1	Maintain an airport travel plan, delivered by a named travel plan co-ordinator	•	•	•
Engagement	2	Maintain a travel plan on-airport that ensures airport companies are provided with the information their employees require	•	•	•
Local Journeys	3	Monitor on-airport cycle provision and look at providing additional cycle storage facilities	•	•	•
	4	Investigate opportunities for the creation of additional staff showering and changing facilities	_	•	_
	5	Hold 2 local staff focus groups to identify the barriers to cycling or walking to work	•	_	_
	6	Establish a cycle and walking user group tasked with exploring options for making cycling and walking more attractive to staff	_	•	_
	7	Work with local stakeholders to explore opportunities for improved cycle and walking routes and information provision	_	•	•
Mixed Transport Journeys	8	Hold 2 staff focus groups to identify the multi-modal journey issues that need addressing	•	_	_
	9	Look at ticketing and information improvements with TfL and individual transport operators	•	•	•
Car Journeys	10	Explore the opportunity to install carshare bays in prominent location close to terminal buildings	_	•	_
	11	Consider any other benefits that can be offered to carsharers	_	•	_
	12	Review the leading carshare packages that are publicly available and gauge their suitability for an airport environment	•	_	•
	13	Investigate longer term opportunities for the provision of electric vehicle charging points on-airport	-	•	_
	14	Work with transport operators to offer car users trial journeys on public transport (gather feedback on	_	•	_

Section	No.	Action	2013	2014	2015
	15	Consider the use of incentives that reduce reliance on the car (including discounted parking rates for carsharers, flexible pricing options, etc)	_	-	•
Improved Journeys	16	Work with TfL and local transport providers to identify priority improvements to public transport services	-	•	_
	17	Explore schemes where additional services can be trialled from key staff residency locations or at key shift start times	_	_	•
Local Travel Plan Network	18	Establish contact with local businesses and other organisations to gauge interest in creating a travel plan network (including both large and small businesses)	•	•	•
	19	Consider the creation of an 'easit'* style travel plan network scheme that brings businesses together to collaboratively address local travel issues	_	_	•
Staff Car Parking	20	Monitor staff parking requirements and maintain levels in accordance with agreed levels	•	٠	•
Monitoring and Reporting	21	 Each action will be monitored annually for progress and given the following rating; Complete On track for completion Ongoing Behind schedule 	•	•	•
	22	Progress will be communicated annually as part of the Annual Performance Report (APR).	•	•	•
	23	Complete a snapshot staff travel survey	•	_	•
	24	Complete a full employee survey	-	•	_
	25	Share survey results with relevant stakeholders, including the Airport Transport Forum	•	•	•

*Easit is a transport network that has successfully been implemented at airports, business parks and other distinct areas and brings businesses together in a way that sees them working in partnership to address key local transport issues.

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June 2013



APPENDIX H

Delivery and Servicing Plan



London City Airport

City Airport Development Programme

Delivery and Servicing Plan

May 2013



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Appendices

Appendix A - Swept Path Analysis



1 INTRODUCTION

- 1.1 This Delivery and Servicing Plan (DSP) will be implemented at London City Airport in conjunction with the City Airport Development Programme (CADP).
- 1.2 The purpose of this DSP is to ensure that delivery and servicing activity can take place in a safe, efficient and sustainable manner. It has been developed in accordance with policies set out within "The London Plan" (July 2011); "The London Freight Plan" (November 2007); and "Travel planning for new development in London, Incorporating deliveries and servicing" (February 2011).
- 1.3 The remainder of this report is structured under the following chapter headings:
 - Chapter 2 Local Situation
 - Chapter 3 Policy Context
 - Chapter 4 Measures and Initiatives
 - Chapter 5 Monitoring and Review
 - Chapter 6 Summary
- 1.4 Effective management will ensure that the potential for vehicle conflicts is avoided and that the proposals have the minimum impact on both the surrounding highway and pedestrian network.



2 LOCAL SITUATION

Site Location

2.1 London City Airport is located between the Royal Albert Dock and the King George V Dock, adjacent to the Woolwich Reach and Gallions Reach of the River Thames. Currently the Airport is accessed from Hartmann Road.

Scheme Elements

- 2.2 The CADP chiefly comprises new passenger facilities and infrastructure that are required to enable the Airport to respond to forecast growth in passenger numbers and accommodate the new generation aircraft which are physically larger than the current fleet. Such improvements are broadly consistent with the long term plans which were described in London City Airport's 2006 Master Plan.
- 2.3 The proposals include a replacement landside forecourt area to include vehicle circulation, waiting and drop off areas and hard and soft landscaping.

Proposed Servicing Arrangements

- 2.4 The Airport will be serviced from a new service yard which will be accessed from an existing access point onto Hartmann Road.
- 2.5 Goods deliveries will be loaded and unloaded to / from two loading bays in a covered area at the North East corner of the proposed service yard. Goods are then taken through airside screening or into landside storage via a back-of-house corridor.
- 2.6 Typically deliveries to the retail facilities within the terminal take place on weekdays between 09:00 12:00 and 14:00 16:00.
- 2.7 Swept path analysis has been undertaken to demonstrate that vehicles up to the size of a 16.5 metre articulated vehicle are able to manoeuvre in and out. However, the largest size of vehicle which is likely to use the service yard on a regular basis is a 10 metre rigid lorry. Smaller vehicles including vans and cars associated with the Emergency Services, DLR operations and the UK Border Agency also use the service yard. A copy of the swept path analysis is provided at **Appendix A**.

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City Airport Development Programme, Delivery and Servicing Plan



Proposed Refuse Collection Arrangements

- 2.8 The main Airport refuse and recycling store with capacity for three eurobins will be located within the service yard. Refuse vehicles will enter the service yard and empty the bins directly from the store.
- 2.9 Waste from airside is taken by vehicles on the airside road and through to the service yard to await collection.
- 2.10 A further refuse store will be located in the forecourt adjacent to the sub-station. Refuse vehicles will park in the adjacent layby whilst emptying the bins.
- 2.11 At all times, refuse and recycling will be stored within the dedicated bins.



3 POLICY CONTEXT

National Policy

National Planning Policy Framework (NPPF)

- 3.1 The National Planning Policy Framework sets out the Government's planning policies for England and how these are expected to be applied.
- 3.2 Paragraph 35 states the following:

"Plans should protect and exploit opportunities for the use of sustainable transport modes for the movement of goods or people. Therefore, developments should be located and designed where practical to:

• accommodate the efficient delivery of goods and supplies."

Regional Policy

The London Plan

- 3.3 Policy 6.14 of the current London Plan (adopted July 2011) specifically relates to freight. On Development Proposals, it stipulates that:
 - *"a. locate developments that generate high numbers of freight movements close to major transport routes*
 - b. promote the uptake of the Freight Operators Recognition Scheme, construction logistics plans and delivery and servicing plans. These should be secured in line with the London Freight Plan and should be co-ordinated with travel plans and the development of approaches to consolidate freight
 - c. increase the use of the Blue Ribbon network for freight transport."

Travel planning for new development in London

3.4 This document relates to the Travel Planning process and the need to manage the movement of people and goods in London. Paragraphs 1.10 of this document notes the following:



"Strategies developed to manage deliveries and servicing to a site should:

- Introduce measures to reduce, consolidate or eliminate delivery trips
- Provide safe and legal loading facilities, preferably off-street
- Ensure operators demonstrate best practice."

The London Freight Plan

3.5 The London Freight Plan incorporates guidance on DSP's. It states that:

"Delivery and Servicing Plans (DSPs) will be used to increase building operational efficiency by reducing delivery and servicing impacts to premises, specifically CO2 emissions, congestion and collisions.

DSP's aim to reduce delivery trips (particularly during peak periods) and increase availability and use of safe and legal loading facilities, using a range of approaches including consolidation and out-of-hour deliveries."

Summary

3.6 This DSP for London City Airport accords with the relevant national and regional policies. The scheme has been designed to include on-site servicing yards, reducing the impact on the local road network. Furthermore, servicing and delivery activity will be managed to ensure it operates efficiency minimising any adverse impacts.



4 MEASURES AND INITIATIVES

4.1 This section of the Delivery and Servicing Plan outlines the specific management measures to be implemented. The measures aim to manage the impact of delivery and servicing activity.

Management of the Plan

- 4.2 The management will oversee the management, development and monitoring of the Delivery & Servicing Plan.
- 4.3 Measures that will be implemented include:
 - Promoting the DSP to employees and suppliers;
 - Ensure that delivery vehicles remain in the service yard for as little time as possible to maximise the efficiency of deliveries;
 - Seek to reduce the number of deliveries taking place during network peak hours (07:30-09:00 and 16:30-18:00) wherever possible;
 - Ensuring that refuse and recycling material is transferred to the storage areas in time for collection;
 - Ensuring that the refuse and recycling stores are kept tidy so that collections can take place efficiently.
 - Service yard staff will be trained to assist vehicles manoeuvring to and from the Airport as necessary; and
 - Undertaking monthly servicing and maintenance checks of the service yard.

Working with Suppliers

4.4 London City Airport will continue to work in partnership with its suppliers to ensure the efficient movement of goods to / from the Airport.


5 MONITORING AND REVIEW

Monitoring

- 5.1 The management will be responsible for the on-going monitoring of the DSP.
- 5.2 The monitoring process will generate information by which the success of the DSP can be evaluated. The monitoring process will enable the DSP to be modified as appropriate to respond to any issues as they arise.

Review

5.3 London City Airport will undertake regular reviews of the DSP. Representatives from employees, suppliers, the London Borough of Newham and Transport for London will be consulted as necessary.



6 SUMMARY

- 6.1 This Delivery and Servicing Plan has been prepared for the City Airport Development Programme.
- 6.2 The CADP would be serviced by an on-site service yard which can accommodate all sizes of servicing vehicles up to the size of a maximum legal articulated lorry.
- 6.3 Refuse collection would also take place on-site. This ensures that there is no on-street servicing associated with the proposals.
- 6.4 The DSP has been drafted in accordance with regional and national policy in relation to the movement of freight, in order to minimise the impact of deliveries.
- 6.5 The measures set out within this DSP will ensure the successful and efficient operation of servicing / delivery activity on a day to day basis, reducing the impact of servicing movements on the road network.
- 6.6 The DSP will be monitored on a regular basis by the management team, consulting with relevant stakeholders as necessary.

APPENDIX A

Swept Path Analysis



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APPENDIX I

York Aviation Technical Note



London City Airport Forecast Note

 This note has been prepared to respond to points raised by Transport for London (TfL) in relation to the growth in passengers at London City Airport (LCY), in particular in relation to the robustness of the prediction of 5.87 mppa at 2023 as the basis for the assessment of the surface access impacts of the planning application. A fuller explanation of the forecasts will be contained in the planning application documentation.

Background

- 2. At the outset, it should be noted that the forecasts are derived from underlying projections of demand growth in the catchment area served by London City Airport based on DfT forecast market growth rates. We then examine in detail which routes are likely to be viable for the airlines and the appropriate balance between aircraft size and frequency of service having regard to the need for higher frequency services to meet business travel needs.
- 3. In terms of the robustness of the forecasts, there are key points about the commercial viability of air transport which must be taken into account:
 - → Firstly, airlines will only ever offer capacity to meet demand. It is not in the interest of airlines to operate services with aircraft which are significantly larger than required because the operating costs typically increase as aircraft size does. Therefore, as far as possible, airlines will optimise their fleets for their networks. A good example of this is the use of both Fokker F50 turboprop and Avro RJ jet aircraft by CityJet currently, allowing 'right-sizing' of aircraft to the demand on each individual route. Larger aircraft would be unprofitable for the airline and lead to route withdrawals.
 - → Secondly, as with other modes of travel, passenger demand is partly a function of service frequency. This is particularly pertinent at LCY because of the high number of business travellers using the Airport, for whom frequency can be a significant driver of demand. The passengers will often be attracted by airlines who operate higher frequencies on their chosen route because this increases flexibility, allowing passengers to move between flights as their business plans change, for example if meetings overrun these travellers like to know that they can move to a later flight than planned, can catch an earlier flight home if their meeting ends early, or can change flights at short notice if planned meetings change time or day.

→ Thirdly, load factors are influenced by a combination of frequency and demand, but also by the need to retain a number of available seats on each flight for those on flexible tickets who may choose to move services. LCY is attractive to airlines because of the high level of business travellers, who will typically pay a premium to buy fully flexible fares, and this premium is attractive to the carriers. However, to maintain a level of service integrity the carriers must, therefore, ensure they do not regularly turn away passengers who wish to change services at short notice (even as late as arriving at the Airport simply in time to check-in for the next available service with no notification). Hence, airlines will need to supress the number of seats they sell for any one service to keep some seats free for flexible ticket holders.

Our forecasts have considered these interrelationships in detail to produce a forecast consistent in terms of frequency and load factor for each route.

It is worth noting that DfT's latest forecast (January 2013) shows London City's passenger traffic in the range 3 – 5 mppa at 2020 (Tables 5.5 and E.2) with around 104,000 ATMs, i.e. a similar number to those included within our assessment once the effect of noise factoring is taken into account and having regard to Jet Centre movements, largely outside of peak periods. At 120,000 ATMs (assuming no noise factoring and no Jet Centre traffic), DfT projects 3.7 – 6 mppa in 2030. In practice, we are more optimistic than DfT about LCY's ability to grow its share of the local market than DfT's based on detailed assessment than the aggregated outputs which emerge from DfT's national model. However, DfT's forecasts do not support the view that there is significant upside potential beyond the 6 million passengers per annum that we are projecting.

Fleet Mix

- 4. Broadly, the forecasts have been determined by estimating the future market capture for current and potential destinations from the catchment area as a whole based on frequency and then matching aircraft capacities to the likely demand for each route.
- 5. The forecasts have been compiled on the basis that airlines will continue to 'right-size' their aircraft fleet, for example CityJet is assumed to continue operating two different sized aircraft in the future and that load factors will be restricted by the need to retain seats for fully flexible travellers. In many cases, the forecasts indicate that using larger 100-110 seat aircraft instead of smaller 50-80 seat aircraft would lead to lower load factors, potentially making routes unviable, including routes which already exist from LCY as aircraft would be too large for the market. If the frequency were to be reduced in order to better match demand to the capacity of larger aircraft, then there is circularity because reducing the frequency on a route may reduce its attractiveness to passengers, thus demand could be expected to also reduce further, possibly pushing load factors below viable levels once more.
- 6. Furthermore, there are some destinations within the forecasts which we have already anticipated will require a frequency reduction in order to sustain natural fleet replacement by the airlines. Both Paris Orly and Rotterdam are forecast to require a reduction of one service per day in order to generate viable load factors on 74-seat turboprop aircraft (assumed to replace the 50-seat turboprops currently used on these routes over the next few years). These services would be unlikely to sustain even larger aircraft (100-110 seats) without undermining their viability and ability to attract passengers.

- 7. Even on major routes, such as Edinburgh, by 2023 if all services were operated by larger 110-seat aircraft then the amount of available capacity would exceed the demand and would reduce load factors for the airlines leading to reductions in frequency and the loss of demand.
- 8. For these reasons, we believe that there will not be a widescale move towards to larger 100-110 seat aircraft across the entire LCY network, as there would simply not be sufficient demand on many of the existing and likely new routes without destroying the value of frequencies and making services unviable for airlines operating larger aircraft at reduced load factors.

Peak Period Load Factors

- 9. In the peak hour, we do not anticipate that load factors are likely to consistently reach 100% because of passengers on flexible tickets which means that, on balance, there will always be spare seats on some flights even if others are full. In addition to airlines keeping an excess of seats on their aircraft free to accommodate passengers changing flights, there will also be a number of passengers who will change off peak services. As a result of needing to maintain the flexibility to attract high yielding business passengers, the airlines will be forced not to sell all seats on any flight in order not to compromise the integrity of their ticket offers.
- 10. In general, two things are most likely to happen for passengers who are booked on morning and evening peak services:
 - As morning peak arrivals typically present the first opportunity to arrive for an early meeting, then passengers are most likely to change to a later service (out of peak times) to arrive for a meeting time which moves later; and
 - ✤ Passengers booked on evening peak services may change flights because their meeting finishes early or overruns.
- 11. Clearly there could be some passengers booked on off-peak services who may wish to change to peak time services, but this further makes it difficult for airlines to project demand, driving down their overall booking load factor to maximise the capability to allow passengers to switch to and from services.
- 12. Whilst our overall load factor assumption is lower, consistent with that typically achieved on business services, the use of an 85% or 90% load factor in the peak periods in the With and Without Development Cases respectively reflects the passengers' preference for peak period operations. The difference between the With and Without Development case derives from the introduction of more larger aircraft with the enhanced infrastructure and the greater spare capacity which arises as aircraft size is increased ahead of demand at 2023. Our assumed load factors are lower at other times of the day in both scenarios. Whilst a 100% load factor might be achieved on any particular flight on a single day, this is unlikely to happen simultaneously across all services in that particular morning or evening peak, and the difference may therefore be between 7-10 passengers variation in the whole peak period across all flights combined.
- 13. Hence, we believe that the forecasts used for assessing the surface access implications robustly represent the likely peak passenger flows at 2023.

Infrastructure Constraints

- 14. The existing 18 stands provide for a mix of aircraft parking capability as not all stands can accommodate all operating types. Once stand 11 has been replaced, the maximum operational parking capability of the current 18 stands will be as follows:
 - 4 A318
 - 7 E190
 - 1 E170
 - 6 Q400
- 15. Although completion of the works would theoretically allow up to 11 larger aircraft to be parked at any one time on the 7 new stands and upgraded stands 21-24, in practice the number of such aircraft which will be able to operate simultaneously in peak periods will be limited by runway capacity, particularly in the easterly direction. Whilst completion of the parallel taxi-lane will allow more aircraft to use the runway in any given hour, larger wingspan aircraft, such as the C-Series will still need to back track on the runway on arrival in the westerly direction and on departure in the easterly direction. The extent of backtracking will be greater in the easterly direction and this is the limiting factor, albeit this runway direction is only used one third of the The scope to overcome this constraint is severely limited due to the time. configuration of the West Pier and, whilst an additional runway entry/exit point could be located adjacent to Stand 21 for these larger aircraft, this would have relatively limited impact. Our analysis would suggest that even on the basis of the number of larger Code C aircraft assumed in our original schedule, the level of runway delays in an easterly direction will be on the cusp of acceptable levels (10 mins average in peak periods) at 2023 movement levels and peak hour rates. Any increase above this number of larger aircraft would increase delays in the easterly direction to the point when airlines would not accept this impact even though the runway direction is used for a lower proportion of time. We consider that 8 concurrent operational movements by larger aircraft within the peak is the limit of what can be accommodated without the effective runway movement rate being reduced due to increased backtracking. The reduction in overall movement capacity would exceed any gain in passengers due to a greater number of larger aircraft being operated.

Sensitivity Test

- 16. Whilst our analysis of the runway constraints would suggest that any increase in the use of larger aircraft beyond the SWISS operation (already planned by the airline from 2016) and some marginal introduction on other very high density routes will give rise to escalating delays, a reasonable worst case for sensitivity testing purposes might see CityJet replace its Jet fleet by larger aircraft following its change of ownership. Alternatively, BA might choose to operate larger aircraft on its high density routes. A reasonable upper bound is a total of 8 larger Code C aircraft on the ground simultaneously (excluding delayed aircraft), which could be realised by either or both airlines changing some of the aircraft which they operate. Further changes to larger aircraft beyond this level would adversely impact on the declarable runway movement rate and the ability of the Airport to achieve 120,000 noise factored movements in total as indicated above. This is an increase of 3 larger Code C aircraft on the ground simultaneously in peak periods compared to 5 assumed in the most likely Planning Forecast. This would have negligible impact on both annual and peak period passenger volumes.
- 17. In order to test the sensitivity of surface access requirements, we have also set out the implications of increasing peak period to load factors to 90% in the With Development case. Whilst we do not believe this will arise in the timescale to 2023, such load factor increases could arise with demand growth beyond that date.
- 18. On this basis, we have assessed the upper bound of passengers which could be accommodated with the planned infrastructure to be no greater than 6.02 mppa, an increase over the year of 67,000 passengers.

Summary

- 19. In summary:
 - ✤ the demand forecasts have been built up in detail taking on a route by route basis, taking into account viable aircraft sizes and load factors.
 - → because passenger demand at London City is strongly based on business travel and expected to remain so, airlines will operate at lower load factors than are seen in leisure markets. Even so, we have taken into account that flights in peak periods tend to be fuller than those in off-peak periods and allowed for load factors in the range 85-90% on average across all flights in the peak. Within that, some flights will be full and others operating at load factors around 75% or 80%.
 - → in developing the expected fleet mix, we have taken into account the appropriate size of aircraft relative to the level of passenger demand on each route and taking into account airlines' existing and planned fleets.
 - → ultimately, the ability of the airlines to switch entirely to larger aircraft is limited by the infrastructure at the Airport, specifically the West Pier, which results in larger aircraft having to backtrack on the runway in one direction even once the proposed works are complete. This limits the number of larger aircraft which can be handled to 8 simultaneously, without adversely impacting on the capacity of the Airport overall.

→ the number of peak period larger aircraft in the Planning forecasts is already close to the limit of what could be handled with an acceptable level of delay in easterly runway operations. Given that this runway direction is used for less than half the time, the airlines might be willing to accept some greater risk of delay but this would escalate as more larger aircraft are in the mix. Hence, the reasonable worst case would be for 8 of the 11 available stands to be used by larger aircraft, albeit this may require some further enhancement of taxiway infrastructure in the vicinity of Stand 21. In addition, a worst case passenger projection would be to assume the average load factor would reach 90% on all peak period flights at some date beyond 2023.

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2021 - With Development Timetable

Time	Flight No	Airline	Туре	To/From	Seats	Passengers	Arr/Dep
0705	AF5230	Air France	DH4	ANR	74	63	ARR
0710	LG4591	Luxair	DH4	LUX	74	63	ARR
0715	LH041	Lufthansa	AT5	HAJ	48	41	ARR
0715	LH926	Lufthansa	E90	FRA	98	83	ARR
0715	BA002	British Airways	318	JFK	32	27	ARR
0720	AF5180	Air France	E90	AMS	98	83	ARR
0720	LH029	Luttnansa British Ainwaya	DH4	SIR	74	63	ARK
0725	DA0400	Luftbanea		AIVIS CGN	70	63	
0720	L H011	Lufthansa	FQD		98	83	ARR
0730	AF5212	Air France	DH4		74	63	ABB
0735	BA8731	British Airways	E70	FRA	76	65	ARR
0735	AF5018	Air France	DH4	ORY	74	63	ARR
0735	LH001	Lufthansa	E90	MUC	98	83	ARR
0745	BA1009	British Airways	E90	CPH	98	83	ARR
0745	AF5090	Air France	DH4	EIN	74	63	ARR
0750	SX500	Skywork	DH4	BRN	74	63	ARR
0755	AF5072	Air France	DH4	RTM	74	63	ARR
0755	LX484	SWISS	C10	BSL	110	94	ARR
0800	AF5232	Air France	DH4	ANR	74	63	ARR
0805	BA8701	British Airways	E90	EDI	98	83	ARR
0805	LX450	SWISS	C10		110	94	ARK
0810	LA442	SWISS Air Franco	EOO		110	94	
0810	RA1027	Ritich Ainwave	E90	MYD	90	83	
0810	LH023	Lufthansa	DH4	TXI	74	63	ARR
0815	AF5116	Air France	E90	DUB	98	83	ABB
0815	BA8721	British Airways	E90	GLA	98	83	ARR
0820	BA3291	British Airways	E70	ABZ	76	65	ARR
0820	BA8760	British Airways	E70	ZRH	76	65	ARR
0820	OV001	Estonian Air	E90	TLL	112	95	ARR
0825	BA1017	British Airways	E70	BHD	76	65	ARR
0830	VE7050	Alitalia	E90	LIN	98	83	ARR
0830	AF5158	Air France	E90	EDI	98	83	ARR
0835	BA1003	British Airways	E90	BCN	98	83	ARR
0840	BA8711	British Airways	E90	EDI	98	83	ARR
0845	BA3281	British Airways	E70	IOM	76	65	ARR
0845	SI712	Blue Islands	AT5	JER	48	41	ARR
0850	AY001	Finnair Air France	E/0	HEL	/6	65	ARR
0855	AF5184	Air France	E90		98	83	
0855	RA9/00	Ritich Ainwave	E90		90 76	65	
0900	AF5074	Air France		BTM	70	63	ARR
0900	LO001	LOT Polish	E70	WAW	76	65	ARR
0905	LH019	Lufthansa	DH4	HAM	74	37	ARR
0905	BA8752	British Airways	E90	MAD	98	49	ARR
0905	AF5020	Air France	DH4	ORY	74	37	ARR
0910	BA8705	British Airways	E90	EDI	98	49	ARR
0910	VE003	Alitalia	E90	FCO	98	49	ARR
0910	SI001	Blue Islands	AT5	GCI	48	24	ARR
0910	BA8723	British Airways	E90	GLA	98	49	ARR
0915	BA8209	British Airways	AI5	BLL	48	24	ARR
0915	LH003	Lufthansa	E90	MUC	98	49	ARR
0920	SK005	SAS	DH4	CPH	/4	37	ARR
0920		CAC	E90		90	49	
0925	OK001	CSA	E90	PRG	90	49	
0930	LX460	SWISS	C10	ZBH	110	49	ARB
0940	OS001	Austrian	E90	VIE	98	49	ARR
1000	LH013	Lufthansa	DH4	DUS	74	37	ARR
1000	AF5170	Air France	DH4	DND	74	37	ARR
1005	BA004	British Airways	318	JFK	32	16	ARR
1010	BA8739	British Airways	E90	GLA	98	49	ARR
1010	BA8703	British Airways	E90	EDI	98	49	ARR
1020	AF5120	Air France	E90	DUB	98	49	ARR
1025	AF5162	Air France	E90	EDI	98	49	ARR
1030	BA1032	British Airways	E90	FRA	98	49	AKK
1045	DA0/64	Dillisti AlfWays			76	38	
1040	1 X005	SWISS	E/U		110	38	
1105	LA000	Air France	Fan		09	20	
1110	1 X003	SWISS	C10	GVA	110	49	ARR
1110	AF5234	Air France	DH4	ANR	74	37	ARR
1120	LO005	LOT Polish	E70	WAW	76	38	ARR
1125	AF5294	Air France	DH4	NTE	74	37	ARR
1130	BA8452	British Airways	E90	AMS	98	49	ARR
1150	LG4593	Luxair	DH4	LUX	74	37	ARR
1155	BA8725	British Airways	E90	GLA	98	49	ARR
1205	BA8715	British Airways	E70	EDI	76	38	ARR
1210	AF003	Air France	E90	DUB	98	49	ARR

Period	Load Factor
Shoulder	50%
Peak	85%
Off-Peak	40%

Passengers at the Airport

	Arrivals	Departures	Total
08:00 - 09:00	1688	1741	3429
17:00 - 18:00	1106	830	1936

Passengers on Surface Access

	Arriva	Is	Departures	Total
08:00 - 09	:00	1072	1717	2789
17:00 - 18	:00	1743	711	2453

1210	BA8733	British Airwavs	E70	FRA	76	38	ARR
1215	VE001	Alitalia	F90	I IN	02 02	10	ARR
1213		Antana Dritiala Aimusua	L30		30	43	
1220	BA1024	British Airways	E90	MAD	98	49	ARR
1225	VE005	Alitalia	E90	FCO	98	49	ARR
1250	LX456	SWISS	C10	ZRH	110	55	ARR
255	BA1005	British Airways	E90	FRA	98	49	ARR
1220	1 7424	SWICE	C10	GVA	110	55	
1320	LA434	300133	010	GVA	110	55	Ann
1330	BA1011	British Airways	E90	СРН	98	49	ARR
1330	BA3295	British Airways	E70	ABZ	76	38	ARR
1335	BA1037	British Airways	E90	MXP	98	49	ARR
1350	BA1016	Britich Ainwaye	EOU	GLA	08	10	ABB
1330	BATUTO	Diffish Allways	E90	GLA	90	49	Ann
1350	LH043	Lufthansa	AT5	HAJ	48	24	ARR
1405	AF002	Air France	E90	EDI	98	49	ARR
1410	AF5188	Air France	F90	AMS	98	49	ARR
445	AI 5100	All I falloc	230		70	+0	
1415	BA3285	British Airways	E/0	IOM	/6	38	AKK
1420	LH025	Lufthansa	DH4	TXL	74	37	ARR
1425	BA8472	British Airways	F90	BCN	98	49	ARR
1420		SMICS	C10	DCI	110		
1430	LAUUT	300133	010	DOL	110	55	Ann
1440	LH007	Lufthansa	DH4	MUC	74	37	ARR
1440	AF5280	Air France	E90	FLR	98	49	ARR
1445		Lufthanca			74	27	ADD
1445		Luithansa		003	/4	37	Ann
1455	AF5216	Air France	DH4	LUX	74	37	ARR
1500	BA1040	British Airways	E70	ARN	76	38	ARR
1500		Lufthonoo		CON	74	07	
1000			014		/4	37	
1500	AF5236	Air France	DH4	ANR	74	37	AKR
1505	BA1019	British Airways	E70	BHD	76	38	ARR
1505	BA1024	British Ainwows	FOU	EDI	00	40	
1505	41034	Enusi Aliways	230		30	49	
1515	AY003	⊢innair	E70	HEL	76	38	AKR
1520	LH031	Lufthansa	DH4	STR	74	37	ARR
1520	BA8712	British Ainwave	Fan	FDI	90	10	ARR
1020	0.0110	Difficient All Ways	100		30	49	
1530	LG4595	Luxair	DH4	LUX	74	37	AKR
1550	AF005	Air France	DH4	PUF	74	37	ARR
1550	BA8/80	British Ainwaya	Fan	VCE	00	40	ARP.
1550		Chulon Allways	230		30	49	
1555	LXU0/	20122	G10	ΖКН	110	55	AKK
1605	AF5080	Air France	DH4	RTM	74	37	ARR
1610	SKUUG	202	DH4	051	74	37	ΔRR
1010		040			110	57	
1615	LX436	SW155	C10	GVA	110	55	AKK
1625	LH934	Lufthansa	E90	FRA	98	49	ARR
1625	BA8454	British Airwave	E90	AMS	98	40	ARR
1600	AEC100	Air Erector	ECC		00	40	
1030	AFSI66	AirFrance	E90	EDI	98	49	ARK
1635	LH009	Lufthansa	DH4	MUC	74	37	ARR
1655	BA1002	British Airways	E90	AMS	98	49	ARR
1655	VE7052	Alitalia	E00	LINI	00	40	ADD
1055	VE/032	Alitalia	E90		90	49	Ann
1700	LX464	SWISS	C10	ZRH	110	55	ARR
1700	AF008	Air France	E90	NCE	98	49	ARR
1705	AE5082	Air France	DHA	RTM	74	37	ABB
1705		All Hanoc			17	07	
1/15	LH045	Lufthansa	AI5	HAJ	48	24	AKK
1715	LH021	Lufthansa	DH4	HAM	74	37	ARR
1720	AF5194	Air France	F90	AMS	98	49	ARR
1700		Alitelia	500	500	00	10	
1720	VE007	Alitalia	E90	FCO	98	49	AKK
1730	BA8766	British Airways	E90	ZRH	98	83	ARR
1730	BA8727	British Airways	E90	GLA	98	83	ARB
1725	AE5020	Air Eranac			74	60	APP
1733	1 3230	All Halloe	5014		74	63	
1740	LH936	Lutthansa	E90	FRA	98	83	ARR
1745	LO003	LOT Polish	E70	WAW	76	65	ARR
1750	AE5024	Air France	DH4	OBV		63	
1750	01/0024		500	5111	74		ARR
1750	OK003	USA	1-90		74	00	ARR
1750	I VAGG		200	PRG	74 98	83	ARR
1755	LA400	SWISS	C10	PRG ZRH	74 98 110	83 94	ARR ARR ARR
1/55	LH039	SWISS Lufthansa	C10 DH4	PRG ZRH CGN	74 98 110 74	83 94 63	ARR ARR ARR ARR
1755	LH039	SWISS Lufthansa	C10 DH4	PRG ZRH CGN CPH	74 98 110 74	83 94 63	ARR ARR ARR ARR
1755	LH039 SK007	SWISS Lufthansa SAS	C10 DH4 DH4	PRG ZRH CGN CPH	74 98 110 74 74	83 94 63 63	ARR ARR ARR ARR ARR
1755 1755 1755	LH039 SK007 LH033	SWISS Lufthansa SAS Lufthansa	C10 DH4 DH4 DH4	PRG ZRH CGN CPH STR	74 98 110 74 74 74	83 94 63 63 63	ARR ARR ARR ARR ARR ARR
1755 1755 1755 1800	LH039 SK007 LH033 SX502	SWISS Lufthansa SAS Lufthansa Skywork	C10 DH4 DH4 DH4 DH4 DH4	PRG ZRH CGN CPH STR BRN	74 98 110 74 74 74 74	83 94 63 63 63 63 63	ARR ARR ARR ARR ARR ARR ARR
1755 1755 1755 1800 1805	LH039 SK007 LH033 SX502 AE5096	SWISS Lufthansa SAS Lufthansa Skywork Air France	C10 DH4 DH4 DH4 DH4 DH4	PRG ZRH CGN CPH STR BRN FIN	74 98 110 74 74 74 74 74	83 94 63 63 63 63	ARR ARR ARR ARR ARR ARR ARR ARR
1755 1755 1755 1800 1805	LH039 SK007 LH033 SX502 AF5096	SWISS Lufthansa SAS Lufthansa Skywork Air France	C10 DH4 DH4 DH4 DH4 DH4 DH4	PRG ZRH CGN CPH STR BRN EIN	74 98 110 74 74 74 74 74 74	83 94 63 63 63 63 63 63	ARR ARR ARR ARR ARR ARR ARR ARR
1755 1755 1755 1800 1805 1805	LH039 SK007 LH033 SX502 AF5096 LH027	SWISS Lufthansa SAS Lufthansa Skywork Air France Lufthansa	C10 DH4 DH4 DH4 DH4 DH4 DH4	PRG ZRH CGN CPH STR BRN EIN TXL	74 98 110 74 74 74 74 74 74 74	83 94 63 63 63 63 63 63 63	ARR ARR ARR ARR ARR ARR ARR ARR ARR
1755 1755 1755 1800 1805 1805 1805	LH039 SK007 LH033 SX502 AF5096 LH027 BA8707	SWISS Lufthansa SAS Lufthansa Skywork Air France Lufthansa British Airways	C10 DH4 DH4 DH4 DH4 DH4 DH4 DH4 E70	PRG ZRH CGN CPH STR BRN EIN TXL EDI	74 98 110 74 74 74 74 74 74 74 74	83 94 63 63 63 63 63 63 63 63 63	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1755 1755 1755 1800 1805 1805 1805 1805	LH039 SK007 LH033 SX502 AF5096 LH027 BA8707 LX446	SWISS Lufthansa SAS Lufthansa Skywork Air France Lufthansa British Airways SWISS	C10 DH4 DH4 DH4 DH4 DH4 DH4 DH4 E70 C10	PRG ZRH CGN CPH STR BRN EIN TXL EDI GVA	74 98 110 74 74 74 74 74 74 74 76 110	83 94 63 63 63 63 63 63 63 63 63 94	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1755 1755 1755 1800 1805 1805 1805 1805 1810	LH039 SK007 LH033 SX502 AF5096 LH027 BA8707 LX446 AY005	SWISS Lufthansa SAS Lufthansa Skywork Air France Lufthansa British Airways SWISS Fiinnair	C10 DH4 DH4 DH4 DH4 DH4 DH4 E70 C10 E70	PRG ZRH CGN CPH STR BRN EIN TXL EDI GVA	74 98 110 74 74 74 74 74 74 74 76 110	83 94 63 63 63 63 63 63 63 63 63 63 65 94	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1755 1755 1800 1805 1805 1805 1805 1810	LH039 SK007 LH033 SX502 AF5096 LH027 BA8707 LX446 AY005	SWISS Lufthansa SAS Lufthansa Skywork Air France Lufthansa British Airways SWISS Finnair	C10 DH4 DH4 DH4 DH4 DH4 DH4 E70 C10 E70	PRG ZRH CGN CPH STR BRN EIN TXL EDI GVA HEL	74 98 110 74 74 74 74 74 74 74 76 110 76	83 94 63 63 63 63 63 63 63 63 63 63 65 94	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1755 1755 1800 1805 1805 1805 1805 1810 1810 18	L4039 SK007 LH033 SX502 AF5096 LH027 BA8707 LX446 AY005 BA8754	SWISS Lufthansa SAS Lufthansa Skywork Air France Lufthansa British Airways SWISS Finnair British Airways	C10 DH4 DH4 DH4 DH4 DH4 DH4 E70 C10 E70 E90	PRG ZRH CGN CPH STR BRN EIN TXL EDI GVA HEL MAD	74 98 110 74 74 74 74 74 74 74 76 110 76 98	83 94 63 63 63 63 63 63 63 65 94 65 94 83	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1755 1755 1755 1800 1805 1805 1805 1810 1810 1810 18	LH039 SK007 LH033 SX502 AF5096 LH027 BA8707 LX446 AY005 BA8754 AF5196	SWISS Lufthansa SAS Lufthansa Skywork Air France Lufthansa British Airways SWISS Finnair British Airways Air France	C10 DH4 DH4 DH4 DH4 DH4 E70 C10 E70 E90 E90	PRG ZRH CGN CPH STR BRN EIN TXL EDI GVA HEL MAD AMS	74 98 110 74 74 74 74 74 74 74 76 110 76 98 98	83 94 63 63 63 63 63 63 63 63 63 63 63 63 83 83 83 83	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1755 1755 1755 1800 1805 1805 1805 1810 1810 1810 18	LH039 SK007 LH033 SX502 AF5096 LH027 BA8707 LX446 AY005 BA8754 AF5196 AF5196	SWISS Lufthansa SAS Lufthansa Skywork Air France Lufthansa British Airways SWISS Finnair British Airways Air France	C10 DH4 DH4 DH4 DH4 DH4 DH4 E70 C10 E70 E90 E90 E90	PRG ZRH CGN CPH STR BRN EIN TXL EDI GVA HEL MAD AMS	74 98 110 74 74 74 74 74 74 74 74 76 110 76 98 98	83 94 63 63 63 63 63 63 63 63 65 94 65 83 83 83	AKR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1755 1755 1755 1800 1805 1805 1805 1805 1810 1810 18	LX400 SK007 LH033 SX502 AF5096 LH027 BA8707 LX446 AY005 BA8754 AF5196 AF5218 AF5218	SWISS Lufthansa SAS Lufthansa Skywork Air France Lufthansa British Airways SWISS Finnair British Airways Air France Air France	C10 DH4 DH4 DH4 DH4 DH4 DH4 E70 C10 E70 E90 E90 E90	PRG ZRH CGN CPH STR BRN EIN TXL EDI GVA HEL MAD AMS LUX DTA	74 98 110 74 74 74 74 74 74 74 74 76 110 76 98 98 98	83 94 63 63 63 63 63 63 63 63 63 65 94 65 83 83 83 83	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1755 1755 1755 1800 1805 1805 1805 1810 1810 1810 18	LH039 SK007 LH033 SX502 AF5096 LH027 BA8707 LX446 AY005 BA8754 AF5196 AF5218 AF5084	SWISS Lufthansa SAS Lufthansa Skywork Air France Lufthansa British Airways SWISS Finnair British Airways Air France Air France	C10 DH4 DH4 DH4 DH4 DH4 E70 C10 E70 E90 E90 E90 DH4	PRG ZRH CGN CGPH STR BRN EIN TXL EDI GVA HEL MAD AMS LUX RTM	74 98 110 74 74 74 74 74 74 76 110 76 98 98 98 98	83 94 63 63 63 63 63 63 63 63 63 63 63 83 83 83 83 83 83 83 83	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1755 1755 1755 1800 1805 1805 1805 1805 1810 1810 18	LA400 SK007 LH033 SX502 AF5096 LH027 BA8707 LX446 AY005 BA8754 AF5196 AF5196 AF5218 AF5084 BA8492	SWISS Lufthansa SAS Lufthansa Skywork Air France Lufthansa British Airways SWISS Finnair British Airways Air France Air France British Airways	C10 DH4 DH4 DH4 DH4 DH4 DH4 E70 C10 E70 E90 E90 E90 DH4 E70	PRG ZRH CGN CCPH STR BRN EIN TXL EDI GVA HEL MAD AMS LUX RTM ARN	74 98 110 74 74 74 74 74 74 74 74 74 76 98 98 98 98 98 98 74 74	83 94 63 63 63 63 63 63 63 65 94 65 83 83 83 83 83 65 55	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1755 1755 1755 1800 1805 1805 1805 1805 1810 1810 18	LH039 SK007 LH033 SX502 AF5096 LH027 BA8707 LX446 AY005 BA8754 AF5196 AF5218 AF5084 BA8492 BA8456	SWISS Lufthansa SAS Lufthansa Skywork Air France Lufthansa British Airways SWISS Finnair British Airways Air France Air France British Airways British Airways	C10 DH4 DH4 DH4 DH4 DH4 DH4 DH4 E70 C10 E70 E90 E90 E90 DH4 E70 E70	PRG ZRH CGN CPH STR BRN EIN TXL EDI GVA HEL MAD AMS LUX RTM ARN ARN	74 98 110 74 74 74 74 74 76 110 76 98 98 98 98 98 98 74 76 76	83 94 63 63 63 63 63 63 63 63 63 63 63 83 83 83 83 83 83 65 65	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1755 1755 1755 1800 1805 1805 1805 1810 1810 1810 18	LA400 SK007 LH033 SX502 AF5096 LH027 BA8707 LX446 AY005 BA8754 AF5196 AF5218 AF5084 BA8492 BA8456	SWISS Lufthansa SAS Lufthansa Skywork Air France Lufthansa British Airways SWISS Finnair British Airways Air France Air France British Airways British Airways	C10 DH4 E70 E90 E90 DH4 E70 E90 DH4 E70 E70 E70	PRG ZRH CGN CGN STR BRN EIN TXL EDI GVA HEL MAD AMS LUX RTM ARN AMS	74 98 110 74 74 74 74 74 74 74 74 76 98 98 98 98 98 98 74 76 76	83 94 63 63 63 63 63 63 63 63 65 94 65 83 83 83 83 83 83 65 65	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1755 1755 1755 1800 1805 1805 1805 1805 1810 1810 18	LH039 SK007 LH033 SX502 AF5096 LH027 BA8707 LX446 AY005 BA8754 AF5196 AF5218 AF5084 BA8492 BA8456 LH017	SWISS Lufthansa SAS Lufthansa Skywork Air France Lufthansa British Airways SWISS Finnair British Airways Air France Air France Air France British Airways British Airways British Airways Lufthansa	C10 DH4 DH4 DH4 DH4 DH4 DH4 DH4 E70 E90 E90 DH4 E70 E90 E90 E90 E90 E90 E90	PRG ZRH CGN CPH STR BRN EIN TXL EDI GVA HEL MAD AMS LUX RTM ARN AMS DUS	74 98 1100 74 74 74 74 76 1100 76 98 98 98 98 98 98 98 98 98 98 98 98 98	83 94 63 63 63 63 63 63 63 63 63 63 63 63 83 83 83 83 65 65 83 83 83 83 83 83 83 83 83 83 83 83 83	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1755 1755 1755 1800 1805 1805 1805 1805 1810 1810 18	LH039 SK007 LH033 SX502 AF5096 LH027 BA8707 LX446 AY005 BA8707 LX446 AF5196 AF5196 AF5218 AF5084 BA8492 BA8456 LH017 BA8211	SWISS Lufthansa SAS Lufthansa Skywork Air France Lufthansa British Airways SWISS Finnair British Airways Air France Air France British Airways British Airways British Airways	C10 DH4 E70 E90 DH4 E70 E70 E90 AT5	PRG ZRH CGN CFH STR BRN EIN TXL EDI GVA HEL MAD AMS LUX RTM ARN ARN AMS DUS BLL	74 98 1100 74 74 74 74 74 74 74 74 74 74 74 76 98 98 98 98 98 74 76 76 98 8 98 8 98	83 94 63 63 63 63 63 63 63 63 63 65 94 65 83 83 83 63 65 65 65 65 83 83 83 83 83 83 83 83 83 83 83 83 83	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1755 1755 1755 1800 1805 1805 1805 1805 1805 1810 1810	LA400 SK007 LH033 SX502 AF5096 LH027 BA8707 LX446 AY005 BA8754 AF5196 AF5196 AF5218 AF5084 BA8492 BA8456 LH017 BA8211 SIZ18	SWISS Lufthansa SAS Lufthansa Skywork Air France Lufthansa British Airways SWISS Finnair British Airways Air France Air France British Airways British Airways British Airways Bulue Islands	C10 DH4 E70 E90 DH4 E70 E90 DH4 E70 E70 E70 E70 E70 AT5	PRG ZRH CGN CCPH STR BRN EIN TXL EDI GVA HEL MAD AMS LUX RTM ARN ARN AMS DUS BLL JER	74 98 1100 74 74 74 74 74 74 74 74 76 110 76 98 98 98 98 98 98 98 98 98 98 98 98 98	83 94 63 63 63 63 63 63 63 63 65 94 65 83 83 65 65 65 83 41	AHR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1755 1755 1755 1800 1805 1805 1805 1805 1810 1810 18	LH039 SK007 LH033 SX502 AF5096 LH027 BA8707 LX446 AY005 BA8754 AF5196 AF5218 AF5084 BA8492 BA8456 LH017 BA8211 SJ718 DA4667	SWISS Lufthansa SAS Lufthansa Skywork Air France Lufthansa British Airways SWISS Finnair British Airways Air France Air France Air France British Airways British Airways British Airways British Airways British Airways Buthansa	C10 DH4 DH4 DH4 DH4 DH4 DH4 DH4 DH4 DH4 DH4	PRG ZRH CGN CFH STR BRN EIN TXL EDI GVA HEL MAD AMS LUX RTM AMS AMS BLL JER BLL JER	74 98 1100 74 74 74 74 74 74 74 74 74 74 74 76 98 98 98 98 98 98 98 98 98 98 98 98 98	83 94 63 63 63 63 63 63 63 63 65 94 65 83 83 83 65 65 65 83 83 83 63 65 65 83	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1755 1755 1755 1800 1805 1805 1805 1805 1810 1810 18110 1815 1825 1830 1830 1835 1835 1840	LA400 SK007 LH033 SX502 AF5096 LH027 BA8707 LX446 AY005 BA8754 AF5196 AF5218 AF5084 BA8492 BA8456 LH017 BA8211 SI718 BA1007	SWISS Lufthansa SAS Lufthansa Skywork Air France Lufthansa British Airways SWISS Finnair British Airways Air France Air France British Airways British Airways British Airways British Airways Bule Islands British Airways	C10 DH4 E70 E90 DH4 E90 DH4 E70 E70 E70 E70 E70 E90 DH4 E90	PRG ZRH CCGN CPH STR BRN EIN TXL EDI GVA HEL MAD AMS LUX RTM AMS DUS BLL JER BCN	74 98 1100 74 74 74 74 74 74 74 74 74 76 110 76 988 988 74 76 76 988 488 488	83 94 63 63 63 63 63 63 63 63 65 94 65 83 83 83 83 83 83 83 83 83 83	AHR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1755 1755 1755 1800 1805 1805 1805 1805 1810 1810 18	LH039 SK007 LH033 SX502 AF5096 LH027 BA8707 LX446 AY005 BA8754 AF5196 AF5218 AF5084 BA8492 BA8456 LH017 BA8211 SI718 BA1007 BA8735	SWISS Lufthansa SAS Lufthansa Skywork Air France Lufthansa British Airways SWISS Finnair British Airways Air France Air France Air France Air France British Airways British Airways Blue Islands British Airways British Airways	C10 DH4 E70 E90 E90 DH4 E70 E90 AT5 AT5 E90 E70	PRG ZRH CGN CPH STR BRN EIN TXL EDI GVA HEL MAD AMS LUX RTM ARN ARN ARN ARN ARN AMS DUS BLL JER BCN FRA	74 98 110 74 74 74 74 74 74 74 74 74 74 76 98 98 98 98 98 98 98 98 98 98 98 76 76 76	83 94 63 94 63 63 63 63 63 63 63 63 63 63	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1755 1755 1755 1800 1805 1805 1805 1805 1805 1805 18	LH039 SK007 LH033 SX502 AF5096 LH027 BA8707 LX446 AY005 BA8754 AF5196 AF5218 AF5196 AF5218 AF5084 BA8492 BA8456 LH017 BA8211 SI718 BA1007 BA8735 BA1021	SWISS Lufthansa SAS Lufthansa Skywork Air France Lufthansa British Airways SWISS Finnair British Airways Air France Air France Air France British Airways British Airways British Airways British Airways British Airways British Airways British Airways	C10 DH4 DH4 DH4 DH4 DH4 DH4 DH4 E70 C10 E70 E90 E90 E90 E90 DH4 E70 E90 E90 AT5 AT5 E90 E70 E70 E70	PRG ZRH CCGN CPH STR BRN EIN TXL EDI GVA HEL MAD AMS LUX RTM ARS LUX RTM ARS BLL JER BCN FRA BHD	74 98 1100 74 74 74 74 74 74 74 74 74 74 74 76 98 98 98 98 98 98 76 76 76 76 76	83 94 63 63 63 63 63 63 63 63 63 63	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1755 1755 1755 1755 1800 1805 1805 1805 1805 1810 1810 18	LH039 SK007 LH033 SX502 AF5096 LH027 BA8707 LX446 AY005 BA8754 AF5196 AF5218 AF5084 BA8456 LH017 BA8211 SI718 BA1007 BA8735 BA1021	SWISS Lufthansa SAS Lufthansa Skywork Air France Lufthansa British Airways SWISS Finnair British Airways Air France Air France Air France British Airways British Airways Bue Islands British Airways British Airways British Airways British Airways	C10 DH4 DH4 DH4 DH4 DH4 DH4 DH4 E70 E70 E70 E90 E90 E90 E90 E70 E70 E70 E70 E70 E70 E70 E70 E70 E7	PRG ZRH CGN CPH STR BRN EIN TXL EDI GVA HEL AMS LUX RTM ARN DUS BLL JER BCN FRA BHD	74 98 110 74 74 74 74 74 74 74 74 74 76 98 98 98 98 98 98 98 98 74 76 76 76 76 76 76	83 94 63 94 63 63 63 63 63 63 63 63 63 63	AHR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1755 1755 1755 1800 1805 1805 1805 1805 1805 1810 1810	LH039 SK007 LH033 SX502 AF5096 LH027 BA8707 LX446 AY005 BA8754 AF5196 AF5218 AF5084 BA8492 BA8456 LH017 BA8211 SI718 BA1007 BA8735 BA1021 BA1013	SWISS Lufthansa SAS Lufthansa Skywork Air France Lufthansa British Airways SWISS Finnair British Airways Air France Air France Air France British Airways British Airways British Airways British Airways British Airways British Airways British Airways	C10 DH4 DF0 E70 E90 DH4 E70 E70 E90 AT5 E90 E70	PRG ZRH CCGN CPH STR BRN EIN TXL EDI GVA HEL MAD AMS LUX RTM AMS LUX RTM ARN AMS BLL JER BCN FRA BHD CPH	74 98 1100 74 74 74 74 74 74 74 74 74 76 98 98 98 98 98 98 98 98 98 98 98 98 98	83 94 63 94 63 63 63 63 63 63 63 63 63 63	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1755 1755 1755 1800 1805 1805 1805 1805 1805 1810 1810	LH039 SK007 LH033 SX502 AF5096 LH027 BA8707 LX446 AY005 BA8754 AF5196 AF5218 AF5084 BA8492 BA8456 LH017 BA8211 SI718 BA81007 BA8735 BA1021 BA1013 AF5126	SWISS Lufthansa SAS Lufthansa Skywork Air France Lufthansa British Airways SWISS Finnair British Airways Air France Air France British Airways British Airways	C10 DH4 E70 E90 DH4 E70 E90 E70 E70 E70 E90 E90 E90 E90 E90 E90	PRG ZRH CCGN CPH STR BRN EIN TXL EDI GVA HEL MAD AMS LUX RTM ARN AMS DUS BBL JER BCN FRA BHD CCPH DUB	74 98 110 74 74 74 74 74 74 74 74 76 98 98 98 98 98 98 98 98 98 98 74 4 76 76 76 98 98 98 98 98 98 98 98 98 98 98 98 98	83 94 63 63 63 63 63 63 63 63 63 65 83 83 83 65 65 83 41 41 83 65 65 83 83 83 83 83 83 83 83 83 83	AHR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1755 1755 1755 1800 1805 1805 1805 1805 1805 1810 1810	LH039 SK007 LH033 SX502 AF5096 LH027 BA8707 LX446 AY005 BA8754 AF5196 AF5218 AF5084 BA8492 BA8456 LH017 BA8211 SI718 BA1007 BA8735 BA1021 BA1013 AF5126 AF5026	SWISS Lufthansa SAS Lufthansa Skywork Air France Lufthansa British Airways SWISS Finnair British Airways Air France Air France Air France British Airways British Airways British Airways British Airways British Airways British Airways British Airways British Airways British Airways	C10 DH4 E70 E90 E90 E90 E70 E70 E70 E90 AT5 E90 E70 E70 E90 E70 E90 E70 E90 E70 E90 E70 E90 E70 E90 E90 E90 E90 E90 DH4	PRG ZRH CCGN CPH STR BRN EIN TXL EDI GVA HEL MAD AMS LUX RTM ARN ARN ARN ARN ARN ARN BLL JER BCN BLL JER BCN FRA BHD CPH DUB	74 98 110 74 74 74 74 74 74 74 74 74 74 74 74 74	83 94 63 94 63 63 63 63 63 63 63 63 63 63	AHR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1755 1755 1755 1800 1805 1805 1805 1805 1805 1810 1810	LH039 SK007 LH033 SX502 AF5096 LH027 BA8707 LX446 AY005 BA8754 AF5196 AF5218 AF5196 AF5218 AF5084 BA8492 BA8456 LH017 BA8211 SI718 BA1007 BA8735 BA1021 BA1013 AF5126 AF5026 DA4662	SWISS Lufthansa SAS Lufthansa Skywork Air France Lufthansa British Airways SWISS Finnair British Airways Air France Air France Air France British Airways British Airways	C10 DH4 DH4 DH4 DH4 DH4 DH4 DH4 C10 E70 E90 DH4 E70 E90 DH4 E70 E90 E90 E70 E90 E70 E90 E70 E90 E90 DH4 E90 E90 DH4 E90 E90 DH4	PRG ZRH CCGN CPH STR BRN EIN TXL EDI GVA HEL MAD AMS LUX RTM ARN AMS LUX RTM ARN AMS BLL JER BCN FRA BBHD CPH DUB ORY	74 98 1100 74 74 74 74 74 74 74 74 74 76 98 98 98 98 98 74 76 76 76 98 98 8 98 76 76 98 98 76 76 76	83 94 63 63 63 63 63 63 63 63 63 63	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR

1855	AF5208	Air France	DH4	NTE	74	63	ARR
1855	SK003	SAS	E90	OSL	98	83	ARR
1900	BA3297	British Airways	E70	ABZ	76	65	ARR
1900	BA3287	British Airways	E70	IOM	76	65	ARR
1905	AF5086	Air France	DH4	RTM	74	63	ARR
1905	LH005	Lufthansa	E90	MUC	98	83	ARR
1910	L G4597	Luxair	DH4		74	63	ABB
1910	L X486	SWISS	C10	BSI	110	94	ABB
1915	AF5198	Air France	E90	AMS	98	83	ABB
1915	05003	Austrian	Fan		98	83	ABB
1920	1 X454	SWISS	C10	ZBH	110	94	ARR
1020	BA8700	British Ainwave	EQD		08	94	
1920	BA8768	British Ainways	E90		08	10	
1050	DA0700	Dritich Airways	E00		30	43	
1950	DA1030	Dritich Airways	E90		30	49	
1955	DA0400	Air France			70	30	
2000	AF5176	Air France			74	37	
2000	AF3026	All France			74	37	
2000	BA1026	British Airways	E90	FAU	98	49	ARR
2005	AF5088	Air France	DH4	RIM	/4	37	ARK
2020	BA8/1/	British Airways	E90	EDI	98	49	ARR
2020	BA8/29	British Airways	E90	GLA	98	49	ARR
2025	AF5168	Air France	E90	EDI	98	49	ARR
2045	LX440	SWISS	C10	GVA	110	44	AKR
2050	AF5222	Air France	E90	DUB	98	39	ARR
2105	BA8737	British Airways	E90	FRA	98	39	ARR
2115	LX462	SWISS	C10	ZRH	110	44	ARR
0630	LX463	SWISS	C10	ZRH	110	55	DEP
0645	LX441	SWISS	C10	GVA	110	55	DEP
0650	BA1023	British Airways	E90	MAD	98	49	DEP
0655	BA1031	British Airways	E90	FRA	98	49	DEP
0700	AF5115	Air France	E90	DUB	98	83	DEP
0700	BA8700	British Airways	E90	EDI	98	83	DEP
0700	BA8720	British Airways	E90	GLA	98	83	DEP
0700	BA8763	British Airways	E70	ZRH	76	65	DEP
0705	AF5159	Air France	E90	EDI	98	83	DEP
0735	AF5295	Air France	DH4	NTE	74	63	DEP
0740	LG4592	Luxair	DH4	LUX	74	63	DEP
0745	LH042	Lufthansa	AT5	HAJ	48	41	DEP
0750	AF5181	Air France	E90	AMS	98	83	DEP
0750	LH927	Lufthansa	E90	FRA	98	83	DEP
0750	LH030	Lufthansa	DH4	STR	74	63	DEP
0755	BA8497	British Airways	E70	AMS	76	65	DEP
0755	LH036	Lufthansa	DH4	CGN	74	63	DEP
0800	LH012	Lufthansa	E90	DUS	98	83	DEP
0800	AF5213	Air France	DH4		74	63	DEP
0805	BA8732	British Airways	E70	FRA	74	65	DEP
0805	AF5019	Air France		OBY	70	63	DEP
0000		Lufthance		MUC	00	00	
0010	PA1010	Dritich Ainwove	E00		30	00	
0015	AFEOOI	Air Eropoo			30	60	
0815	AF5091	Alf France			74	63	DEP
0020	3/301	SKYWOIK			74	63	
0025	AF3073				/4	63	
0020	LA401	SWISS Air Erenne	DU		110	94	
0830	AF5231	AIT France	DH4	ANK	/4	63	DEP
0835	BA8451	Dritish Airways	E90	AIVIS	98	83	DEP
0835	LX485	SWISS	010	BSL	110	94	DEP
0835	LX443	SWISS	C10	GVA	110	94	DEP
0840	AF5187	Air France	E90	AMS	98	83	DEP
0840	BA1028	British Airways	E90	MXP	98	83	DEP
0840	LH024	Lutthansa	DH4	IXL	74	63	DEP
0845	AF5117	Air France	E90	DUB	98	83	DEP
0845	BA8722	British Airways	E90	GLA	98	83	DEP
0850	BA3292	British Airways	E70	ABZ	76	65	DEP
0850	BA8702	British Airways	E70	EDI	76	65	DEP
0850	OV002	Estonian Air	E90	TLL	112	95	DEP
0855	BA1018	British Airways	E70	BHD	76	65	DEP
0900	VE7051	Alitalia	E90	LIN	98	83	DEP
0900	AF007	Air France	E90	NCE	98	83	DEP
0905	BA1004	British Airways	E90	FRA	98	83	DEP
0910	BA8471	British Airways	E90	BCN	98	83	DEP
0915	BA3282	British Airways	E70	IOM	76	65	DEP
0915	SI713	Blue Islands	AT5	JER	48	41	DEP
0920	AY002	Finnair	E70	HEL	76	65	DEP
0925	AF5183	Air France	E90	AMS	98	83	DEP
0925	AF5281	Air France	E90	FLR	98	83	DEP
0930	BA8491	British Airways	E70	ARN	76	38	DEP
0930	AF5021	Air France	DH4	ORY	74	37	DEP
0930	LO002	LOT Polish	E70	WAW	76	38	DEP
0935	LH020	Lufthansa	DH4	HAM	74	37	DEP
0935	BA8753	British Airways	E90	MAD	98	49	DEP
0935	AF5075	Air France	DH4	RTM	74	37	DEP
0940	BA8704	British Ainways	E90	EDI	98	40	DEP
					00	+0	

0940	SI002	Blue Islands	AT5	GCI	48	24	DEP
0945	BA8210	British Airways	AT5	BLL	48	24	DEP
0950	SK006	SAS	DH4	CPH	74	37	DEP
0950	BA001	British Airwavs	318	JFK	32	16	DEP
0950	LH004	Lufthansa	E90	MUC	98	49	DEP
0955	1 H929	Lufthansa	E90	FRA	98	49	DEP
0955	SK002	SAS	EGO		98	49	DEP
0000	OK002	CSA	EGO	PRG	08	40	
1000		COA SW/ISS	C10	700	110	49	
1000	00000	Avertice	500		110	55	
1010	05002	Austrian	E90	VIE	98	49	DEP
1030	LH014	Lutthansa	DH4	DUS	/4	30	DEP
1030	AF004	Air France	DH4	PUF	74	30	DEP
1040	BA1015	British Airways	E90	GLA	98	39	DEP
1050	AF001	Air France	E90	EDI	98	39	DEP
1100	BA8479	British Airways	E90	VCE	98	39	DEP
1125	LX006	SWISS	C10	ZRH	110	44	DEP
1135	AF5185	Air France	E90	AMS	98	39	DEP
1140	LX004	SWISS	C10	GVA	110	44	DEP
1150	BA1033	British Airways	E90	EDI	98	.39	DEP
1150		LOT Polish	E70	W/AW/	76	30	DEP
1220	AE5233	Air France			70	30	
1220	LC4504	Luvoir			74	30	
1220	LG4594				74	30	
1240	AF5119	Air France	E90	DOR	98	39	DEP
1245	BA1039	British Airways	E70	AKN	76	30	DEP
1245	VE002	Alitalia	E90	LIN	98	39	DEP
1250	BA1025	British Airways	E90	FAO	98	39	DEP
1255	VE006	Alitalia	E90	FCO	98	39	DEP
1255	BA8765	British Airways	E90	ZRH	98	39	DEP
1300	AF5163	Air France	E90	EDI	98	39	DEP
1305	BA8453	British Airways	E90	AMS	98	39	DEP
1325	BA1006	British Airways	E90	BCN	98	30	DEP
1345	1 X457	SWISS	C10	ZBH	110		DEP
1355	1 8425	SWISS	C10	GVA	110	44	DEP
1400	BA1010	Britich Ainwowe	Enc		110	44	
1400	DATO22	Dritich Alimays	E90		98	39	
1405	BA1038	British Airways	E90	MXP	98	39	DEP
1410	BA1001	British Airways	E90	AMS	98	39	DEP
1420	BA8716	British Airways	E70	EDI	76	30	DEP
1420	BA8726	British Airways	E90	GLA	98	39	DEP
1420	LH044	Lufthansa	AT5	HAJ	48	19	DEP
1445	BA8734	British Airways	E70	FRA	76	30	DEP
1450	BA3286	British Airways	E70	IOM	76	30	DEP
1450	LH026	Lufthansa	DH4	TXL	74	30	DEP
1455	AF5217	Air France	E90	LUX	98	39	DEP
1500	I X002	SWISS	C10	BSI	110	44	DEP
1505	AF5235	Air France			74	30	DEP
1510	AE5121	Air France			08	30	
1510	AFSTZT		E90	DUB	30	39	
1510	LH008	Luithansa	DH4	MUC	74	30	DEP
1515	LH016	Luttnansa	DH4	DUS	/4	30	DEP
1525	BA3296	British Airways	E70	ABZ	76	30	DEP
1525	AF5025	Air France	DH4	ORY	74	30	DEP
1530	BA8455	British Airways	E70	AMS	76	30	DEP
1530	LH038	Lufthansa	DH4	CGN	74	30	DEP
1535	BA1020	British Airways	E70	BHD	76	30	DEP
1535	BA1035	British Airways	E90	GLA	98	39	DEP
1545	AY004	Finnair	E70	HEL	76	30	DEP
1550	LH032	Lufthansa	DH4	STR	74	30	DEP
1550	BA8767	British Airways	E90	ZRH	98	39	DEP
1600	BA003	British Airways	318	JFK	32	12	DEP
1605	AF5193	Air France	E90	AMS	92	10	DFP
1605	1 G4506				7/	30	
1610	DA0700	Dritich Ainwowe	E00		/4	30	
1010		Air Free C	E90		98	39	
1620	AF31/5	AIT FIANCE		UNU יוסד	/4	30	
1625	LXUU8	SWISS	010	ZKH	110	44	DEP
1635	AF5081	Air France	DH4	RIM	74	37	DEP
1640	SK010	SAS	DH4	OSL	74	37	DEP
1645	LX437	SWISS	C10	GVA	110	55	DEP
1655	AF5165	Air France	E90	EDI	98	49	DEP
1655	AF5209	Air France	DH4	NTE	74	37	DEP
1700	LH935	Lufthansa	E90	FRA	98	49	DEP
1700	BA8724	British Airways	E90	GLA	98	49	DEP
1705	BA8459	British Airways	E70	AMS	76	38	DEP
1705	I H010	Lufthansa	DH4	MUC	74	37	DEP
1710	BA8712	British Ainwave	Fan	FDI	09	40	DEP
	I J DUI 16	Billion Allways	EOO	EBA		49	
1710	BA9720	Britich Ainwowe	10.20	i nA	98	49	DEP
1725	BA8738	British Airways	Ecc	I INI	~~~		
1725 1725	BA8738 VE7053	British Airways Alitalia	E90		98	49	DEP
1725 1725 1730	BA8738 VE7053 LX465	British Airways Alitalia SWISS	E90 C10	LIN ZRH	98 110	49 94	DEP DEP
1725 1725 1725 1730 1735	BA8738 VE7053 LX465 AF5123	British Airways Alitalia SWISS Air France	E90 C10 E90	LIN ZRH DUB	98 110 98	49 94 83	DEP DEP DEP
1725 1725 1725 1730 1735 1735	BA8738 VE7053 LX465 AF5123 AF5083	British Airways Alitalia SWISS Air France Air France	E90 C10 E90 DH4	LIN ZRH DUB RTM	98 110 98 74	49 94 83 63	DEP DEP DEP DEP
1710 1725 1725 1730 1735 1735 1735	BA8738 VE7053 LX465 AF5123 AF5083 LH046	British Airways Alitalia SWISS Air France Air France Lufthansa	E90 C10 E90 DH4 AT5	LIN ZRH DUB RTM HAJ	98 110 98 74 48	49 94 83 63 41	DEP DEP DEP DEP DEP
1710 1725 1725 1730 1735 1735 1745 1745	BA8738 VE7053 LX465 AF5123 AF5083 LH046 LH022	British Airways Alitalia SWISS Air France Air France Lufthansa Lufthansa	E90 C10 E90 DH4 AT5 DH4	LIN ZRH DUB RTM HAJ HAM	98 110 98 74 48 74	49 94 83 63 41 63	DEP DEP DEP DEP DEP DEP
1710 1725 1725 1730 1735 1735 1745 1745 1745	BA8738 VE7053 LX465 AF5123 AF5083 LH046 LH022 AF5195	British Airways Alitalia SWISS Air France Air France Lufthansa Lufthansa Air France	E90 C10 E90 DH4 AT5 DH4 E90	LIN ZRH DUB RTM HAJ HAM AMS	98 110 98 74 48 74 98	49 94 83 63 41 63 83	DEP DEP DEP DEP DEP DEP DEP
1710 1725 1725 1730 1735 1735 1745 1745 1745 1750	BA8738 VE7053 LX465 AF5123 AF5083 LH046 LH022 AF5195 VE009	British Airways Alitalia SWISS Air France Air France Lufthansa Lufthansa Air France Alitalia	E90 C10 E90 DH4 AT5 DH4 E90 E90	LIN ZRH DUB RTM HAJ HAM AMS FCO	98 110 98 74 48 74 98 98	49 94 83 63 41 63 83 83 83	DEP DEP DEP DEP DEP DEP DEP DEP DEP

1800	BA8728	British Airways	E90	GLA	98	83	DEP
1805	AF5027	Air France	DH4	ORY	74	63	DEP
1815	LH937	Lufthansa	E90	FRA	98	83	DEP
1815	LO004	LOT Polish	E70	WAW	76	65	DEP
1820	AF5237	Air France	DH4	ANR	74	63	DEP
1820	OK004	CSA	E90	PRG	98	83	DEP
1820	LX467	SWISS	C10	ZRH	110	94	DEP
1825	LH040	Lufthansa	DH4	CGN	74	63	DEP
1825	SK008	SAS	DH4	CPH	74	63	DEP
1825	LH034	Lufthansa	DH4	STR	74	63	DEP
1830	SX503	Skywork	DH4	BRN	74	63	DEP
1835	AF5097	Air France	DH4	EIN	74	63	DEP
1835	LH028	Lufthansa	DH4	TXL	74	63	DEP
1835	BA8769	British Airways	E70	ZRH	76	65	DEP
1840	LX447	SWISS	C10	GVA	110	94	DEP
1840	AY006	Finnair	E70	HEL	76	65	DEP
1840	BA8755	British Airways	E90	MAD	98	83	DEP
1845	AF5197	Air France	E90	AMS	98	83	DEP
1845	AF5167	Air France	E90	EDI	98	83	DEP
1850	AF5085	Air France	DH4	RTM	74	63	DEP
1900	BA8457	British Airways	E70	AMS	76	65	DEP
1900	BA8212	British Airways	AT5	BLL	48	41	DEP
1900	LH018	Lufthansa	E90	DUS	98	83	DEP
1905	BA8493	British Airways	E70	ARN	76	65	DEP
1905	SI719	Blue Islands	AT5	JER	48	41	DEP
1910	BA1008	British Airways	E90	BCN	98	83	DEP
1910	BA8736	British Airways	E70	FRA	76	65	DEP
1915	BA1022	British Airways	E70	BHD	76	65	DEP
1920	BA1014	British Airways	E90	CPH	98	83	DEP
1920	AF5125	Air France	E90	DUB	98	83	DEP
1920	AF5219	Air France	DH4	LUX	74	63	DEP
1920	BA1030	British Airways	E90	MXP	98	83	DEP
1925	AF5029	Air France	DH4	ORY	74	63	DEP
1925	SK004	SAS	E90	OSL	98	83	DEP
1930	BA3298	British Airways	E70	ABZ	76	38	DEP
1930	BA3288	British Airways	E70	IOM	76	38	DEP
1935	AF5087	Air France	DH4	RTM	74	37	DEP
1940	LG4598	Luxair	DH4	LUX	74	37	DEP
1940	LH006	Lufthansa	E90	MUC	98	49	DEP
1940	LX455	SWISS	C10	ZRH	110	55	DEP
1945	AF5199	Air France	E90	AMS	98	49	DEP
1945	OS004	Austrian	E90	VIE	98	49	DEP
1950	LX487	SWISS	C10	BSL	110	55	DEP
1950	BA8718	British Airways	E90	EDI	98	49	DEP
2015	BA8730	British Airways	E90	GLA	98	49	DEP
2025	AF5177	Air France	DH4	DND	74	37	DEP
2030	AF5239	Air France	DH4	ANR	74	30	DEP
2035	AF5089	Air France	DH4	RTM	74	30	DEP
2050	BA8714	British Airways	E90	EDI	98	39	DEP
		Sou	rce Yo	rk Aviatio	n		

2023 - With Development Timetable

Time	Flight No	Airline	Туре	To/From	Seats	Passengers	Arr/Dep
0705	AF5230	Air France	DH4	ANR	74	63	ARR
0710	LG4591	Luxair	DH4	LUX	74	63	ARR
0715	LH041	Luithansa	FON	HAJ FRA	48	41	
0715	BA002	British Airways	318	JFK	32	27	ARR
0720	AF5180	Air France	E90	AMS	98	83	ARR
0720	LH029	Lufthansa	DH4	STR	74	63	ARR
0725	BA8450	British Airways	E90	AMS	98	83	ARR
0725	LH035	Lufthansa	DH4	CGN	74	63	ARR
0730	LH011	Lutthansa	E90		98	83	
0735	BA8731	British Airways	E70	FRA	74	65	ARR
0735	AF5018	Air France	DH4	ORY	74	63	ARR
0735	LH001	Lufthansa	E90	MUC	98	83	ARR
0745	BA1009	British Airways	E90	CPH	98	83	ARR
0745	AF5090	Air France	DH4	EIN	74	63	ARR
0750	SX500	Skywork	DH4	BRN	74	63	ARR
0755	AF5072	SWISS	C10	RSI	110	94	ARR
0800	AF5232	Air France	DH4	ANR	74	63	ARR
0805	BA8701	British Airways	C10	EDI	110	94	ARR
0805	LX450	SWISS	C10	ZRH	110	94	ARR
0805	LX442	SWISS	C10	GVA	110	94	ARR
0810	AF5182	Air France	E90	AMS	98	83	ARR
0810	BA1027	British Airways	E90		98	83	
0815	AF5116	Air France	E90	DUB	98	83	ARR
0815	BA8721	British Airways	E90	GLA	98	83	ARR
0820	BA3291	British Airways	E70	ABZ	76	65	ARR
0820	BA8760	British Airways	E90	ZRH	98	83	ARR
0820	OV001	Estonian Air	E90	TLL	112	95	ARR
0825	BA1017	British Airways	E90	BHD	98	83	ARR
0830	VE/050	Alitalia Air Eranco	E90		98	83	
0835	BA1003	British Airways	E90	BCN	98	83	ARR
0840	BA8711	British Airways	E90	EDI	98	83	ARR
0845	BA3281	British Airways	E70	IOM	76	65	ARR
0845	SI712	Blue Islands	AT5	JER	48	41	ARR
0850	AY001	Finnair	E90	HEL	98	83	ARR
0855	AF5184	Air France	E90	AMS	98	83	ARR
0855	AF5118 B48490	Air France British Ainwave	E90		98	83	
0900	AF5074	Air France	DH4	RTM	74	63	ARR
0900	LO001	LOT Polish	E70	WAW	76	65	ARR
0905	LH019	Lufthansa	DH4	HAM	74	37	ARR
0905	BA8752	British Airways	E90	MAD	98	49	ARR
0905	AF5020	Air France	DH4	ORY	74	37	ARR
0910	BA8705	Alitalia	EQN	EDI	110	55	ARR ARR
0910	SI001	Blue Islands	AT5	GCI	48	24	ARR
0910	BA8723	British Airways	E90	GLA	98	49	ARR
0915	BA8209	British Airways	AT5	BLL	48	24	ARR
0915	LH003	Lufthansa	E90	MUC	98	49	ARR
0920	SK005	SAS	DH4	CPH	74	37	ARR
0920	LH928	Lutthansa	E90		98	49	
0925	OK001	CSA	E90	PBG	98	49	ARR
0930	LX460	SWISS	C10	ZRH	110	55	ARR
0940	OS001	Austrian	E90	VIE	98	49	ARR
1000	LH013	Lufthansa	DH4	DUS	74	37	ARR
1000	AF5170	Air France	DH4	DND	74	37	ARR
1005	BA004	British Airways	318		32	16	
1010	BA8703	British Airways	E90		98	49	ARR
1020	AF5120	Air France	E90	DUB	98	49	ARR
1025	AF5162	Air France	E90	EDI	98	49	ARR
1030	BA1032	British Airways	E90	FRA	98	39	ARR
1045	BA8764	British Airways	E90	ZRH	98	39	ARR
1045	BA8496	British Airways	E90	AMS	98	39	ARR
1055	LX005	SVVISS Air Franco	EQ0		110	44	
1110	LX003	SWISS	C10	GVA	110	39 44	ARR
1110	LH047	Lufthansa	DH4	MUC	74	30	ARR
1110	AF5234	Air France	DH4	ANR	74	30	ARR
1120	LO005	LOT Polish	E70	WAW	76	30	ARR
1125	AF5294	Air France	DH4	NTE	74	30	ARR
1130	BA8452	British Airways	C10	AMS	110	44	ARR
1150	LG4393 BA8725	Luxall British Ainwove	DH4 Fan	GLA	/4 00	30	
1205	BA8715	British Airways	E90	EDI	98	39	ARR
1210	AF003	Air France	E90	DUB	98	39	ARR
1210	BA8733	British Airways	E70	FRA	76	30	ARR
1215	VE001	Alitalia	E90	LIN	98	39	ARR
1220	BA1024	British Airways	E90	MAD	98	39	ARR
1225	VE005	Allalla	E90	700 ZBH	98	39	ARR
1200	_//+00	0.1100	5.0		110	-++	

Period	Load Factor
Shoulder	50%
Peak	85%
Off-Peak	40%

Passengers at the Airport

	Arrivals	Departures	Total
08:00 - 09:00	1775	1809	3584
17:00 - 18:00	1143	922	2065
Passengers on	Surface Acces	SS	
	Arrivale	Doparturos	Total

		Arrivals	Departures	Total
08:0	0 - 09:00	1107	1785	2892
17:0	0 - 18:00	1838	748	2586

1200	BA1005	British Airways	E90	FRA	98	39	ARR
1320	LX434	SWISS	C10	GVA	110	44	ARR
1330	BA1011	British Airways	E90	CPH	98	39	ARR
1330	BA3295	British Airways	E70	ABZ	76	30	ARR
1335	BA1037	British Airways	E90	MXP	98	39	ARR
1350	BA1016	British Airways	E90	GLA	98	39	ARR
1350	LH043	Lufthansa	AT5	HAJ	48	19	ARR
1405	AF002	Air France	E90	EDI	98	39	ARR
1410	AF5188	Air France	E90	AMS	98	39	ARR
1415	BA3285	British Airways	E70	IOM	76	30	ARR
1420	LH025	Lufthansa	E90	TXL	98	39	ARR
1425	BA8472	British Airways	E90	BCN	98	39	ARR
1430	LX001	SWISS	C10	BSL	110	44	ARR
1440	LH007	Lufthansa	DH4	MUC	74	30	ARR
1440	AF5280	Air France	E90	FLR	98	39	ARR
1445	LH015	Lufthansa	DH4	DUS	74	30	ARR
1455	AF5216	Air France	DH4	LUX	74	30	ARR
1500	BA1040	British Airways	E90	ARN	98	39	ARR
1500	BA1019	British Airways	E90	BHD	98	39	ARR
1500	LH037	Lufthansa	DH4	CGN	74	30	ARR
1500	AF5236	Air France	DH4	ANR	74	30	ARR
1505	BA1034	British Airways	E90	EDI	98	39	ARR
1515	AY003	Finnair	E90	HEL	98	39	ARR
1520	LH031	Lufthansa	DH4	STR	74	30	ARR
1520	BA8713	British Airways	C10	EDI	110	44	ARR
1530	LG4595	Luxair	DH4	LUX	74	30	ARR
1550	AF005	Air France	DH4	PUF	74	30	ARR
1550	BA8480	British Airways	E90	VCE	98	39	ARR
1555	LX007	SWISS	C10	ZRH	110	44	ARR
1600	SI003	Blue Islands	AT5	JER	48	19	ARR
1605	AF009	Air France	E90	DUB	98	39	ARR
1605	AF5080	Air France	DH4	RTM	74	30	ARR
1610	SK009	SAS	DH4	OSL	74	30	ARR
1615	LX436	SWISS	C10	GVA	110	44	ARR
1625	LH934	Lufthansa	E90	FRA	98	39	ARR
1625	BA8454	British Airways	C10	AMS	110	44	ARR
1630	AF5166	Air France	E90	EDI	98	49	ARR
1635	LH009	Lufthansa	E90	MUC	98	49	ARR
1655	BA1002	British Airways	E90	AMS	98	49	ARR
1655	VE7052	Alitalia	E90	LIN	98	49	ARR
1700	LX464	SWISS	C10	ZRH	110	55	ARR
1700	AF008	Air France	E90	NCE	98	49	ARR
1705	AF5082	Air France	DH4	RTM	74	37	ARR
1710	LH049	Lufthansa	DH4	DUS	74	37	ARR
1715	LH045	Lufthansa	AT5	HAJ	48	24	ARR
1715	LH021	Lufthansa	DH4	HAM	74	37	ARR
1720	AF5194	Air France	E90	AMS	98	49	ARR
1720	VE007	Alitalia	E90	FCO	98	49	ARR
1730	BA8766	British Airways	E90	ZRH	98	83	ARR
1730	BA8727	British Airways	E90	GLA	98	83	ARR
1735	AF5238	Air France	DH4	ANR	74	63	ADD
1740				FRA		83	Ann
	LH936	Lufthansa	E90	1 1 0 1	98		ARR
1745	LH936 LO003	Lufthansa LOT Polish	E90 E70	WAW	98 76	65	ARR
1745 1750	LH936 LO003 AF5024	Lufthansa LOT Polish Air France	E90 E70 DH4	WAW	98 76 74	65 63	ARR ARR ARR
1745 1750 1750	LH936 LO003 AF5024 OK003	Lufthansa LOT Polish Air France CSA	E90 E70 DH4 E90	WAW ORY PRG	98 76 74 98	65 63 83	ARR ARR ARR ARR ARR
1745 1750 1750 1750	LH936 LO003 AF5024 OK003 LX466	Lufthansa LOT Polish Air France CSA SWISS	E90 E70 DH4 E90 C10	WAW ORY PRG ZRH	98 76 74 98 110	65 63 83 94	ARR ARR ARR ARR ARR ARR
1745 1750 1750 1750 1755	LH936 LO003 AF5024 OK003 LX466 LH039	Lufthansa LOT Polish Air France CSA SWISS Lufthansa	E90 E70 DH4 E90 C10 DH4	WAW ORY PRG ZRH CGN	98 76 74 98 110 74	65 63 83 94 63	ARR ARR ARR ARR ARR ARR ARR
1745 1750 1750 1750 1755 1755	LH936 LO003 AF5024 OK003 LX466 LH039 SK007	Lufthansa LOT Polish Air France CSA SWISS Lufthansa SAS	E90 E70 DH4 E90 C10 DH4 DH4	WAW ORY PRG ZRH CGN CPH	98 76 74 98 110 74 74	65 63 83 94 63 63	ARR ARR ARR ARR ARR ARR ARR ARR
1745 1750 1750 1750 1755 1755 1755	LH936 LO003 AF5024 OK003 LX466 LH039 SK007 LH033	Lufthansa LOT Polish Air France CSA SWISS Lufthansa SAS Lufthansa	E90 E70 DH4 E90 C10 DH4 DH4 DH4	WAW ORY PRG ZRH CGN CPH STR	98 76 74 98 110 74 74 74	65 63 83 94 63 63 63	ARR ARR ARR ARR ARR ARR ARR ARR ARR
1745 1750 1750 1750 1755 1755 1755 1800	LH936 LO003 AF5024 OK003 LX466 LH039 SK007 LH033 SX502	Lufthansa LOT Polish Air France CSA SWISS Lufthansa SAS Lufthansa Skywork	E90 E70 DH4 E90 C10 DH4 DH4 DH4 DH4	WAW ORY PRG ZRH CGN CPH STR BRN	98 76 74 98 110 74 74 74 74	65 63 83 94 63 63 63 63 63	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1745 1750 1750 1755 1755 1755 1755 1800 1805	LH936 LO003 AF5024 OK003 LX466 LH039 SK007 LH033 SX502 AF5096	Lufthansa LOT Polish Air France CSA SWISS Lufthansa SAS Lufthansa Skywork Air France	E90 E70 DH4 E90 C10 DH4 DH4 DH4 DH4 DH4	WAW ORY PRG ZRH CGN CPH STR BRN EIN	98 76 74 98 110 74 74 74 74 74	65 63 83 94 63 63 63 63 63 63	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1745 1750 1750 1755 1755 1755 1755 1800 1805 1805	LH936 LO003 AF5024 OK003 LX466 LH039 SK007 LH033 SX502 AF5096 LH027	Lufthansa LOT Polish Air France CSA SWISS Lufthansa SAS Lufthansa Skywork Air France Lufthansa	E90 E70 DH4 E90 C10 DH4 DH4 DH4 DH4 DH4 E90	WAW ORY PRG ZRH CGN CPH STR BRN EIN TXL	98 76 74 98 110 74 74 74 74 74 74 98	65 63 83 94 63 63 63 63 63 83 83	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1745 1750 1750 1755 1755 1755 1755 1800 1805 1805	LH936 LO003 AF5024 OK003 LX466 LH039 SK007 LH033 SX502 AF5096 LH027 BA8707	Lufthansa LOT Polish Air France CSA SWISS Lufthansa SAS Lufthansa Skywork Air France Lufthansa British Airways	E90 E70 DH4 E90 C10 DH4 DH4 DH4 DH4 E90 E90	WAW ORY PRG ZRH CGN CPH STR BRN EIN TXL EDI	98 76 74 98 110 74 74 74 74 74 74 98 98	65 63 83 94 63 63 63 63 63 83 83 83	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1745 1750 1750 1755 1755 1755 1755 1800 1805 1805 1805 1810	LH936 LO003 AF5024 OK003 LX466 LH039 SK007 LH033 SX502 AF5096 LH027 BA8707 LX446	Lufthansa LOT Polish Air France CSA SWISS Lufthansa SAS Lufthansa Skywork Air France Lufthansa British Airways SWISS	E90 E70 DH4 E90 C10 DH4 DH4 DH4 DH4 E90 E90 C10	WAW ORY PRG ZRH CGN CPH STR BRN EIN TXL EDI GVA	98 76 74 98 110 74 74 74 74 74 74 98 98 98	65 63 83 94 63 63 63 63 63 83 83 83 94	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1745 1750 1750 1755 1755 1755 1800 1805 1805 1805 1810 1810	LH936 LO003 AF5024 OK003 LX466 LH039 SK007 LH033 SX502 AF5096 LH027 BA8707 LX446 AY005	Lufthansa LOT Polish Air France CSA SWISS Lufthansa SAS Lufthansa Skywork Air France Lufthansa British Airways SWISS Finnair	E90 E70 DH4 E90 C10 DH4 DH4 DH4 DH4 E90 E90 C10 E90	WAW ORY PRG ZRH CGN CPH STR BRN EIN TXL EDI GVA HEL	98 76 74 98 110 74 74 74 74 74 74 98 98 98 110 98	65 63 83 94 63 63 63 63 63 63 83 83 83 83 83 83 83 83	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1745 1750 1750 1750 1755 1755 1755 1800 1805 1805 1805 1805 1810 1810	LH936 LO003 AF5024 OK003 LX466 LH039 SK007 LH033 SX502 AF5096 LH027 BA8707 LX446 AY005 BA8754	Lufthansa LOT Polish Air France CSA SWISS Lufthansa SAS Lufthansa Skywork Air France Lufthansa British Airways SWISS Finnair British Airways	E90 E70 DH4 E90 C10 DH4 DH4 DH4 DH4 E90 E90 C10 E90 E90 E90	WAW ORY PRG ZRH CGN CPH STR BRN EIN TXL EDI GVA HEL MAD	98 76 74 98 110 74 74 74 74 74 74 98 98 110 98 98	65 63 83 94 63 63 63 63 63 83 83 83 83 83 83 83 83 83 83 83 83 83	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1745 1750 1750 1750 1755 1755 1755 1800 1805 1805 1805 1805 1810 1810 18	LH936 LO003 AF5024 OK003 LX466 LH039 SK007 LH033 SX502 AF5096 LH027 BA8707 LX446 AY005 BA8754 AF5196	Lufthansa LOT Polish Air France CSA SWISS Lufthansa Skywork Air France Lufthansa British Airways SWISS Finnair British Airways Air France	E90 E70 DH4 E90 C10 DH4 DH4 DH4 DH4 E90 E90 C10 E90 E90 E90 E90	WAW ORY PRG ZRH CGN CPH STR BRN EIN TXL EDI GVA HEL MAD AMS	98 76 74 98 110 74 74 74 74 74 98 98 110 98 98 98	65 63 83 94 63 63 63 63 63 63 83 83 83 83 83 83 83 83 83 83 83 83 83	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1745 1750 1750 1755 1755 1755 1800 1805 1805 1805 1810 1810 1810 18	LH336 LO003 AF5024 OK003 LX466 LH039 SK007 LH033 SX502 AF5096 LH027 BA8707 LX446 AY005 BA8754 AF5196 AF5218	Lufthansa LOT Polish Air France CSA SWISS Lufthansa SAS Lufthansa Skywork Air France Lufthansa British Airways SWISS Finnair British Airways Air France Air France	E90 E70 DH4 E90 C10 DH4 DH4 DH4 DH4 E90 E90 C10 E90 E90 E90 E90 E90	WAW ORY PRG ZRH CGN CPH STR BRN EIN TXL EDI GVA HEL MAD AMS LUX	98 76 74 98 110 74 74 74 74 74 74 74 98 98 98 98 98 98 98	65 63 83 94 63 63 63 63 63 63 83 83 83 83 83 83 83 83 83 83 83	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
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1745 1750 1750 1750 1755 1755 1755 1805 1805 1805 1805 1805 1805 1805 18	LH336 LO003 AF5024 OK003 LX466 LH039 SK007 LH033 SX502 AF5096 LH027 BA8707 LX446 AY005 BA8754 AF5196 AF5218 BA8754 AF5196 AF5218 BA8456 BA1021 BA8211 SI718 BA8456 BA1021 BA8211 SI718 BA8456 BA1021 BA1007 BA8735 BA1017 AF5228 SK003 BA1029 LH017 AF5208 SK003 BA3287 AF5086 LH005	Lufthansa LOT Polish Air France CSA SWISS Lufthansa SAS Lufthansa Skywork Air France Lufthansa British Airways British Airways	E90 E70 E70 DH4 E90 C10 DH4 DH4 DH4 DH4 DH4 DH4 DH4 DH4 DH4 E90 E90 E90 DH4 E90 C10 E90 DH4 E90 E90 E90 E90 E90 E90 E90 DH4 E90 E90 DH4 E90 E90 DH4 E90 E70 E70 E70 E70 E70 E70 E70 E70 E90	WAW ORY PRG ZRH CGN CPH STR BRN EIN TXL EDI GVA HEL MAD AMS LUX RTM AAMS BHD BLL JER BHD BLL JER BHD BLL JER BCN FRA CPH DUB ORY ORY ABZ IOM RTM MUC	988 766 744 988 1100 744 744 988 988 988 988 988 988 988 988 988 9	65 63 83 94 63 63 63 63 63 63 63 63 63 63 63 63 83	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
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1915	AF5198	Air France	E90	AMS	98	83	ARR
1915	05003	Austrian	E90	VIF	98	83	ARR
1020	1 X454	SMISS	C10	7BH	110	90	ARR
1020	BA9700	Britich Ainwove	C10		110	04	
1920	DA0709	Dritich Airways	E00		110	94	
1945	DA0700	Dritich Airways	E90		90	49	
1950	BA1036	British Airways	E90	GLA	98	49	ARR
1955	BA8458	British Airways	E90	AMS	98	49	ARR
2000	AF5176	Air France	DH4	DND	74	37	ARR
2000	AF5028	Air France	DH4	ORY	74	37	ARR
2000	BA1026	British Airways	E90	FAO	98	49	ARR
2005	AF5088	Air France	DH4	RTM	74	37	ARR
2020	BA8717	British Airways	C10	EDI	110	55	ARR
2020	BA8729	British Airways	E90	GLA	98	49	ARR
2025	AF5168	Air France	E90	EDI	98	49	ARR
2045	LX440	SWISS	C10	GVA	110	44	ARR
2050	AE5222	Air France	F90	DUB	98	39	ARR
2105	BA8737	British Airways	E90	FRA	98	39	ARR
2115	L X462	SWISS	C10	ZBH	110	44	ARR
0620	1 1 1 4 6 2	SMISS	C10		110		
0000		ewiee	C10		110		
0045	DA1000	Dritich Aircrack	500		110		
0650	BA1023	British Airways	E90		98		DEP
0655	BATU3T	British Airways	E90	FRA	98		DEP
0700	AF5115	Air France	E90	DOR	98	83	DEP
0700	BA8700	British Airways	E90	EDI	98	83	DEP
0700	BA8720	British Airways	E90	GLA	98	83	DEP
0700	BA8763	British Airways	E90	ZRH	98	83	DEP
0705	AF5159	Air France	E90	EDI	98	83	DEP
0735	AF5295	Air France	DH4	NTE	74	63	DEP
0740	LG4592	Luxair	DH4	LUX	74	63	DEP
0745	LH042	Lufthansa	AT5	HAJ	48	41	DEP
0750	AF5181	Air France	E90	AMS	98	83	DEP
0750	LH927	Lufthansa	E90	FRA	98	83	DEP
0750	LH030	Lufthansa	DH4	STR	74	63	DEP
0755	BA8497	British Airways	E90	AMS	98	83	DEP
0755	LH036	Lufthansa	DH4	CGN	74	63	DEP
0733	LH012	Lufthansa	EQN		98	83	
0800	AE5213	Air France			74	63	DEP
0805	BA8732	British Ainwave	E70	FRA	76	65	DEP
0005	AEE010	Air Eropoo			70	63	DEP
0000	AT 3013	Lufthonoo		MUC	09	00	DEP
0010		Duitich Ainwowe	E90		90	00	
0015	BATUTU AFF001	Air Frence	E90		98	83	
0815	AF5091	Air France	DH4	EIIN	74	63	DEP
0820	SX501	Skywork	DH4	BRN	/4	63	DEP
0825	AF5073	Air France	DH4	RIM	74	63	DEP
0825	LX451	SWISS	C10	ZRH	110	94	DEP
0830	AF5231	Air France	DH4	ANR	74	63	DEP
0835	BA8451	British Airways	C10	AMS	110	94	DEP
0835	LX485	SWISS	C10	BSL	110	94	DEP
0835	LX443	SWISS	C10	GVA	110	94	DEP
0840	AF5187	Air France	E90	AMS	98	83	DEP
0840	BA1028	British Airways	E90	MXP	98	83	DEP
0840	LH024	Lufthansa	E90	TXL	98	83	DEP
0845	AF5117	Air France	E90	DUB	98	83	DEP
0845	BA8722	British Airways	E90	GLA	98	83	DEP
0850	BA3292	British Airways	E70	ABZ	76	65	DEP
0850	BA8702	British Airways	E90	EDI	98	83	DEP
0850	OV002	Estonian Air	E90	TLL	112	95	DEP
0855	BA1018	British Airways	E90	BHD	98	83	DEP
0900	VE7051	Alitalia	E90	LIN	98	83	DEP
0900	AF007	Air France	E90	NCE	98	83	DEP
0905	BA1004	British Airways	E90	FRA	98	83	DEP
0910	BA8471	British Airways	E90	BCN	98	83	DEP
0915	BA3282	British Airways	E70	IOM	76	65	DEP
0915	SI713	Blue Islands	AT5	JER	48	41	DEP
0920	AY002	Finnair	E90	HEI	98	83	DEP
0925		A: _	500				
0925	AE5182	Air France	EGU	AMS	00	22	DEP
0020	AF5183 AF5281	Air France	E90	AMS FLB	98	83	DEP
0020	AF5183 AF5281 BA8401	Air France Air France British Ainwowe	E90 E90	AMS FLR ABN	98	83 83	DEP DEP
0930	AF5183 AF5281 BA8491	Air France Air France British Airways	E90 E90 E90	AMS FLR ARN	98 98 98 74	83 83 49	DEP DEP DEP
0930 0930	AF5183 AF5281 BA8491 AF5021	Air France Air France British Airways Air France	E90 E90 E90 DH4	AMS FLR ARN ORY	98 98 98 74	83 83 49 37	DEP DEP DEP DEP
0930 0930 0930	AF5183 AF5281 BA8491 AF5021 LO002	Air France Air France British Airways Air France LOT Polish	E90 E90 E90 DH4 E70	AMS FLR ARN ORY WAW	98 98 98 74 76	83 83 49 37 38	DEP DEP DEP DEP DEP
0930 0930 0930 0935	AF5183 AF5281 BA8491 AF5021 LO002 LH020 BA8750	Air France Air France British Airways Air France LOT Polish Lufthansa	E90 E90 DH4 E70 DH4	AMS FLR ARN ORY WAW HAM	98 98 98 74 76 74	83 83 49 37 38 38	DEP DEP DEP DEP DEP DEP
0930 0930 0930 0935 0935	AF5183 AF5281 BA8491 AF5021 LO002 LH020 BA8753 AF5025	Air France Air France British Airways Air France LOT Polish Lufthansa British Airways Air France	E90 E90 DH4 E70 DH4 E90	AMS FLR ARN ORY WAW HAM MAD	98 98 98 74 76 74 98	83 83 49 37 38 38 37 49 49	DEP DEP DEP DEP DEP DEP DEP
0930 0930 0930 0935 0935 0935	AF5183 AF5281 BA8491 AF5021 LO002 LH020 BA8753 AF5075 BA8704	Air France Air France British Airways Air France LOT Polish Lufthansa British Airways Air France Patileh Airways	E90 E90 DH4 E70 DH4 E90 DH4 C10	AMS FLR ARN ORY WAW HAM MAD RTM	98 98 98 98 74 76 74 98 74	83 83 49 37 38 37 49 37 49	DEP DEP DEP DEP DEP DEP DEP DEP DEP
0930 0930 0930 0935 0935 0935 0940	AF5183 AF5281 BA8491 AF5021 LO002 LH020 BA8753 AF5075 BA8704	Air France Air France British Airways Air France LOT Polish Lufthansa British Airways Air France British Airways	E90 E90 DH4 E70 DH4 E90 DH4 C10	AMS FLR ARN ORY WAW HAM MAD RTM EDI	98 98 98 98 74 76 74 98 74 110	83 83 49 37 38 37 49 37 55	DEP DEP DEP DEP DEP DEP DEP DEP DEP
0930 0930 0930 0935 0935 0935 0940 0940	AF5183 AF5281 BA8491 AF5021 LO002 LH020 BA8753 AF5075 BA8704 VE004	Air France Air France British Airways Air France LOT Polish Lufthansa British Airways Air France British Airways Alitalia Buto Jecet	E90 E90 DH4 E70 DH4 E90 DH4 C10 E90	AMS FLR ARN ORY WAW HAM MAD RTM EDI FCO	98 98 98 74 76 74 98 74 110 98	83 83 49 37 38 37 49 37 55 49	DEP DEP DEP DEP DEP DEP DEP DEP DEP DEP
0930 0930 0935 0935 0935 0935 0940 0940 0940	AF5183 AF5281 BA8491 AF5021 LO002 LH020 BA8753 AF5075 BA8704 VE004 SI002 BA8740	Air France Air France British Airways Air France LOT Polish Lufthansa British Airways Air France British Airways Alitalia Blue Islands Butiah Airways	E90 E90 DH4 E70 DH4 E90 DH4 C10 E90 AT5	AMS FLR ARN ORY WAW HAM MAD RTM EDI FCO GCI	98 98 98 74 76 74 98 74 110 98 48	83 83 49 37 38 37 49 37 55 49 24	DEP DEP DEP DEP DEP DEP DEP DEP DEP DEP
0930 0930 0935 0935 0935 0935 0940 0940 0940 0945 0955	AF5183 AF5281 BA8491 AF5021 LO002 LH020 BA8753 AF5075 BA8704 VE004 SI002 BA8210 EX002	Air France British Airways Air France LOT Polish Lufthansa British Airways Air France British Airways Aitalia Blue Islands British Airways	E90 E90 DH4 E70 DH4 E90 DH4 C10 E90 AT5 AT5	AMS FLR ARN ORY WAW HAM MAD RTM EDI FCO GCI BLL	98 98 98 74 76 74 98 74 110 98 48 48	83 83 49 37 38 37 49 37 55 55 49 24 24	DEP DEP DEP DEP DEP DEP DEP DEP DEP DEP
0930 0930 0935 0935 0935 0935 0940 0940 0940 0945 0950	AF5183 AF5281 BA8491 AF5021 LO002 LH020 BA8753 AF5075 BA8704 VE004 SI002 BA8210 SK006 SK006	Air France British Airways Air France LOT Polish Lufthansa British Airways Air France British Airways Aitalia Blue Islands British Airways SAS	E90 E90 DH4 E70 DH4 E90 DH4 C10 E90 AT5 AT5 DH4	AMS FLR ARN ORY WAW HAM MAD RTM EDI FCO GCI BLL CPH	988 988 744 766 744 988 744 1110 988 488 488	83 83 49 37 38 37 49 37 55 55 49 24 24 24 24	DEP
0930 0930 0935 0935 0935 0940 0940 0940 0945 0950	AF5183 AF5281 BA8491 AF5021 LO002 LH020 BA8753 AF5075 BA8704 VE004 SI002 BA8210 SK006 BA001 LH004	Air France British Airways Air France LOT Polish Lufthansa British Airways Air France British Airways Alitalia Blue Islands British Airways SAS British Airways	E90 E90 DH4 E70 DH4 E90 DH4 C10 E90 AT5 AT5 DH4 318 S02	AMS FLR ARN ORY WAW HAM MAD RTM EDI FCO GCI BLL CPH JFK	988 988 744 766 744 988 744 1110 988 488 488 744 322	83 83 49 37 38 37 49 37 55 49 24 24 24 37 16 (5)	DEP DEP
0930 0930 0935 0935 0935 0935 0940 0940 0940 0945 0950 0950	AF5183 AF5281 BA8491 AF5021 LO002 LH020 BA8753 AF5075 BA8704 VE004 SI002 BA8210 SK006 BA001 LH004	Air France British Airways Air France LOT Polish Lufthansa British Airways Air France British Airways Aitalia Blue Islands British Airways SAS British Airways British Airways	E90 E90 DH4 E70 DH4 E90 DH4 C10 E90 AT5 AT5 DH4 318 E90	AMS FLR ARN ORY WAW HAM MAD RTM EDI FCO GCI BLL CPH JFK MUC CPH JFK BLA	988 988 988 744 766 744 988 744 1100 988 488 488 744 322 988	83 83 49 37 38 37 49 37 55 5 49 24 24 24 24 37 16 49	DEP DEP
0930 0930 0930 0935 0935 0935 0940 0940 0940 0945 0950 0950 0955	AF5183 AF5281 BA8491 LC002 LH020 BA87502 BA87503 AF5075 BA8704 VE004 SI002 BA8210 SK006 BA001 LH004 LH029 SK006	Air France Air France British Airways Air France LOT Polish Lufthansa British Airways Air France British Airways Aitalia Blue Islands British Airways SAS British Airways Lufthansa Lufthansa	E90 E90 E90 DH4 E70 DH4 E90 DH4 E90 DH4 C10 E90 AT5 AT5 DH4 318 E90 E90	AMS FLR ARN ORY WAW HAM MAD RTM EDI FCO GCI BLL CPH JFK MUC FRA	988 988 988 744 766 744 988 744 1100 988 488 488 744 322 988 988	83 83 49 37 38 37 49 37 55 549 24 24 24 24 24 24 24 9 24 49 37 16 49	DEP
0930 0930 0935 0935 0935 0940 0940 0940 0945 0950 0950 0955 0955	AF5183 AF5281 BA8491 LO002 LH020 BA8753 AF5075 BA8704 VE004 SK006 BA8210 SK006 BA001 LH004 LH029 SK002	Air France Air France British Airways Air France LOT Polish Lufthansa British Airways Air France British Airways Aitalia Biue Islands British Airways SAS British Airways British Airways Lufthansa Lufthansa	E90 E90 E90 DH4 E70 DH4 E90 DH4 C10 E90 AT5 AT5 DH4 318 E90 E90 E90 E90	AMS FLR ARN ORY WAW HAM MAD RTM EDI FCO GCI BLL CPH JFK FRA OSL FRA OSL	988 988 988 744 766 744 988 744 1110 988 488 488 744 322 988 988 988	83 83 49 37 38 37 49 37 55 549 24 24 24 24 24 37 16 49 49 49	DEP
0930 0930 0935 0935 0935 0940 0940 0940 0940 0940 0945 0950 0950	AF5183 AF5281 AF5281 LO002 LH020 BA8753 AF5075 BA8704 VE004 VE004 VE004 VE004 VE004 UE004 LH002 BA8210 SK006 BA001 LH004 LH929 SK002 OK002	Air France British Airways Air France LOT Polish Lufthansa British Airways Air France British Airways Alitalia Blue Islands British Airways SAS British Airways British Airways British Airways SAS British Airways Lufthansa Lufthansa SAS CSA	E90 E90 E90 DH4 E70 DH4 E90 DH4 C10 E90 AT5 AT5 DH4 318 E90 E90 E90 E90	AMS FLR ARN ORY WAW HAM MAD RTM EDI FCO GCI BLL CPH JFK MUC FRA OSL PRG OSL	988 988 988 744 766 744 988 744 1100 988 744 322 988 988 988 988	83 83 49 37 38 37 49 37 55 55 49 24 24 24 37 16 49 49 49 49	DEP
0930 0930 0935 0935 0935 0940 0940 0940 0940 0940 0945 0950 0950	AF5183 AF5281 BA8491 LO002 LH020 BA8753 AF5075 BA8704 VE004 SI002 BA8210 SK006 BA001 LH004 LH929 SK002 OK002 UX461 OSC02	Air France British Airways Air France LOT Polish Lufthansa British Airways Air France British Airways Aitafia Blue Islands British Airways SAS British Airways Lufthansa Lufthansa SAS CSA SWISS Austria	E90 E90 E90 DH4 E70 DH4 C10 E90 DH4 C10 E90 AT5 AT5 DH4 318 E90 E90 E90 E90 E90	AMS FLR ARN ORY WAW HAM MAD EDI FCO GCI BLL CPH FLC CPH FRA CPH FRA OSL PRG ZRH	988 988 988 744 766 744 988 744 1100 988 488 488 744 322 988 988 988 988	83 83 49 37 38 37 49 37 55 55 55 24 24 24 24 24 24 37 16 49 49 49 49 49 49 55	DEP
0930 0930 0935 0935 0935 0935 0940 0940 0940 0940 0940 0940 0950 095	AF5183 AF5281 AF5281 LO002 LH020 BA8753 AF5075 BA8704 VE004 SI002 BA8210 SK006 BA001 LH004 LH029 SK002 OK002 LX461 OS002	Air France Air France British Airways Air France LOT Polish Lufthansa British Airways Air France British Airways Aitalia Blue Islands British Airways SAS British Airways Lufthansa Lufthansa SAS CSA SWISS Austrian	E90 E90 E90 DH4 E70 DH4 E90 DH4 C10 E90 AT5 AT5 AT5 DH4 318 E90 E90 E90 C10 E90 C10 E90	AMS FLR ARN ORY WAW HAM MAD RTM EDI FCO GCI BLL CPH JFK MUC FRA OSL PRG ZRH VIE VIE	98 98 98 74 76 74 98 74 110 98 48 48 74 32 98 98 98 98 98 98	83 83 83 83 49 37 38 37 49 37 55 49 24 24 37 16 49 49 49 49 55 55 49 55 49 49 49 49 49 49 55 55 49 55 49 55 49 55 55 55	DEP DEP
0930 0930 0935 0935 0935 0935 0940 0940 0940 0940 0940 0940 0950 095	AF5183 AF5281 AF5281 LO002 LH020 BA8753 AF5075 BA8704 VE004 VE004 VE004 SI002 BA8210 SK006 BA001 LH004 LH029 SK002 OK002 LH014 A4E04	Air France British Airways Air France LOT Polish Lufthansa British Airways Air France British Airways Alitalia Blue Islands British Airways SAS British Airways British Airways Lufthansa Lufthansa SAS CSA SWISS Austrian Lufthansa	E90 E90 DH4 E70 DH4 E70 DH4 E90 DH4 C10 E90 AT5 AT5 DH4 318 E90 E90 E90 E90 C10 E90 DH4	AMS FLR ARN ORY WAW HAM MAD RTM EDI FCO GCI BLL CPH JFK MUC FRA OSL PRG ZRH VIE DUS	988 988 744 766 744 1100 988 744 1100 988 988 988 988 988 988 1100 987 74	83 83 49 37 38 37 49 37 55 55 49 24 24 24 24 37 16 6 49 49 49 49 55 55 49 30 0	DEP DEP
0930 0930 0935 0935 0935 0940 0940 0940 0945 0950 0950 0955 0955	AF5183 AF5281 BA8491 LO002 LH020 BA8753 AF5075 BA8704 VE004 SI002 BA8210 SK006 BA001 LH004 LH929 SK002 OK002 LX461 OS002 LX461 OS002 LH014 AF004	Air France British Airways Air France LOT Polish Lufthansa British Airways Air France British Airways Airtalia Blue Islands British Airways British Airways British Airways British Airways British Airways Lufthansa Lufthansa SAS CSA SWISS Austrian Lufthansa Air France	E90 E90 DH4 E70 DH4 E70 DH4 C10 DH4 C10 C10 E90 AT5 AT5 DH4 318 E90 E90 C10 E90 C10 C10 E90 DH4 DH4	AMS FLR ARN ORY WAW HAM MAD EDI FCO GCI BLL CPH FLA SFK VIE DUS PRG ZRH VIE DUS PUE	98 98 98 74 766 74 98 74 110 98 48 48 48 74 32 98 98 98 98 98 98 98 74 74	83 83 83 37 37 38 37 37 55 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	DEP DEP
0930 0930 0930 0935 0935 0935 0940 0940 0940 0940 0945 0950 0955 0955	AF5183 AF5281 BA8491 LO002 LH020 BA8753 AF5075 BA8704 VE004 SI002 BA8210 SK006 BA001 LH004 LH029 SK006 BA001 LH004 LH929 SK002 DK002 LX461 OS002 LX461 OS002 LH014 BA1015 BF62	Air France Air France British Airways Air France LOT Polish Lufthansa British Airways Air France British Airways Aitalia Blue Islands British Airways Aitalia British Airways Lufthansa SAS SAS CSA SWISS Austrian Lufthansa Air France British Airways	Ego E90 DH4 E70 DH4 E70 DH4 E90 DH4 E90 AT5 DH4 E90 DH4 E90 E90 E90 DH4 DH4 E90 DH4 E90 DH4 DH4 E90	AMS FLR ARN ORY WAW HAM MAD EDI FCO GCI BLL CPH JFK MUC FRA OSL OSL OSL DUS PUF GLA	988 988 988 744 766 744 988 744 1100 988 488 488 988 988 988 988 988 988 988	83 83 83 37 37 38 37 37 55 49 24 24 24 24 24 24 24 37 16 49 49 49 55 55 49 30 30 30	DEP DEP

1100	BA8479	British Airways	E90	VCE	98	39	DEP
1125	LX006	SWISS	C10	ZRH	110	44	DEP
1135	AF5185	Air France	E90	AMS	98	39	DEP
1140	LX004	SWISS	C10	GVA	110	44	DEP
1140	LH048	Lufthansa	DH4	MUC	74	30	DEP
1150	BA1033	British Airwavs	E90	EDI	98	39	DEP
1150	LO006	LOT Polish	E70	WAW	76	30	DEP
1220	AE5233	Air France	DH4	ANR	74	30	DEP
1220	I G4594	Luvair	DH4		74	30	DEP
1240	AE5119	Air France	FOU	DUB	98	30	DEP
1240	RA1039	Rritich Ainwave	EGO		98	30	DEP
1245	VE002	Alitalia	E00		00	20	
1240	VE002	Alitalia Duitiala Aliana	E90		90	39	DEP
1250	BA1025	British Airways	E90	FAU	98	39	DEP
1255	VE006	Alitalia	E90	FCO	98	39	DEP
1255	BA8765	British Airways	E90	ZRH	98	39	DEP
1300	AF5163	Air France	E90	EDI	98	39	DEP
1305	BA8453	British Airways	C10	AMS	110	44	DEP
1325	BA1006	British Airways	E90	BCN	98	39	DEP
1345	LX457	SWISS	C10	ZRH	110	44	DEP
1355	LX435	SWISS	C10	GVA	110	44	DEP
1400	BA1012	British Airways	E90	CPH	98	39	DEP
1405	BA1038	British Airways	E90	MXP	98	39	DEP
1410	BA1001	British Airways	E90	AMS	98	39	DEP
1420	BA8716	British Airways	E90	FDI	98	39	DEP
1420	BA8726	British Ainwayo	Fau	GLA	00	20	DEP
1/20	1 H044	Lufthanca			30	39	DEP
1420	LI 1044	Britich Aincom	E70	EDA	40	19	
1440	DM0/34	Dritich Alimays			/6	30	
1450	BA3286	British Airways	E/U		76	30	
1450	LH026	Lutthansa	E90	I XL	98	39	DEP
1455	AF5217	Air France	E90	LUX	98	39	DEP
1500	LX002	SWISS	C10	BSL	110	44	DEP
1505	AF5235	Air France	DH4	ANR	74	30	DEP
1510	AF5121	Air France	E90	DUB	98	39	DEP
1510	LH008	Lufthansa	DH4	MUC	74	30	DEP
1515	LH016	Lufthansa	DH4	DUS	74	30	DEP
1525	BA3296	British Airways	E70	ABZ	76	30	DEP
1525	AF5025	Air France		OBY	74	30	DEP
1520	RA9455	Rritich Ainwove			09	20	
1530	DA0433	Dritich Airways	E90		30	39	
1530	BA1020	Dillisti Aliways	E90		90	39	
1530	LH038	Luttnansa	DH4	CGN	/4	30	DEP
1535	BA1035	British Airways	E90	GLA	98	39	DEP
1545	AY004	Finnair	E90	HEL	98	39	DEP
1550	LH032	Lufthansa	DH4	STR	74	30	DEP
1550	BA8767	British Airways	E90	ZRH	98	39	DEP
1600	BA003	British Airways	318	JFK	32	13	DEP
1605	AF5193	Air France	E90	AMS	98	39	DEP
1605	LG4596	Luxair	DH4	LUX	74	30	DEP
1610	BA8706	British Airways	C10	EDI	110	44	DEP
1620	AF5175	Air France	DH4	DND	74	30	DEP
1625	LX008	SWISS	C10	ZRH	110	44	DEP
1630	SI004	Blue Islands	AT5	IFR	/18	24	DEP
1625	AE010	Air Eranoo			40	40	
1625	AEE001	Air France		DUD	74	43	
1035	AF3061	AILFIANCE			74	37	
1640	56010	SAS		OSL CVA	110	37	
1645	LX437	500155	500	GVA	110	55	DEP
1655	AF5165	Air France	E90	EDI	98	49	DEP
1655	AF5209	Air France	DH4	NIE	74	37	DEP
1700	LH935	Lufthansa	E90	FRA	98	49	DEP
1700	BA8724	British Airways	E90	GLA	98	49	DEP
1705	BA8459	British Airways	E90	AMS	98	49	DEP
1705	LH010	Lufthansa	E90	MUC	98	49	DEP
1710	BA8712	British Airways	C10	EDI	110	55	DEP
1725	BA8738	British Airways	E90	FRA	98	49	DEP
1725	VE7053	Alitalia	E90	LIN	98	49	DEP
1730	LX465	SWISS	C10	ZRH	110	94	DEP
1735	AF5123	Air France	E90	DUB	98	83	DEP
1735	AF5083	Air France	DH4	RTM	74	63	DEP
1740	LH050	Lufthansa	DH4	DUS	74	63	DEP
1745	LH046	Lufthansa	AT5	HAJ	48	41	DEP
1745	L H022	Lufthanea		HAM	74	+1 60	DEP
1750	AE5105	Air Franco	EOO	AMS	00	03	DEP
1750	VE000	Alitalia	E00	FCO	98	63	DEP
1200	PA9700	Rritich Aincom	E90	EDI	98	83	DEP
1000	DA0700	Dritish Aliways	E90		98	83	
1800	BA8/28	Driusri Airways	E90	GLA	98	83	DEP
1805	AF5027	Air France	DH4	URY	74	63	DEP
1815	LH937	Lufthansa	E90	FRA	98	83	DEP
1815	LO004	LOT Polish	E70	WAW	76	65	DEP
1820	AF5237	Air France	DH4	ANR	74	63	DEP
1820	OK004	CSA	E90	PRG	98	83	DEP
1820	LX467	SWISS	C10	ZRH	110	94	DEP
1825	LH040	Lufthansa	DH4	CGN	74	63	DEP
1825	SK008	SAS	DH4	CPH	74	63	DEP
1825	LH034	Lufthansa	DH4	STR	74	63	DEP
1830	SX503	Skywork	DH4	BBN	74	63	DEP
1925	AE5007	Air France		EIN	74	03	
1033	AF3097	All Fidfice	DH4		74	63	
1035		Dritich A	E90		98	83	
1035	mus/hu	DITUSTI AIRWAYS	E90	ZRH	98	83	DEP
10/2	DA0703	014/100	040	01/4			
1840	LX447	SWISS	C10	GVA	110	94	DEP

1840	BA8755	British Airways	E90	MAD	98	83	DEP
1845	AF5197	Air France	E90	AMS	98	83	DEP
1845	AF5167	Air France	E90	EDI	98	83	DEP
1850	AF5085	Air France	DH4	RTM	74	63	DEP
1900	BA8457	British Airways	E90	AMS	98	83	DEP
1900	BA1022	British Airways	E90	BHD	98	83	DEP
1900	BA8212	British Airways	AT5	BLL	48	41	DEP
1905	BA8493	British Airways	E90	ARN	98	83	DEP
1905	SI719	Blue Islands	AT5	JER	48	41	DEP
1910	BA1008	British Airways	E90	BCN	98	83	DEP
1910	BA8736	British Airways	E70	FRA	76	65	DEP
1920	BA1014	British Airways	E90	CPH	98	83	DEP
1920	AF5125	Air France	E90	DUB	98	83	DEP
1920	AF5219	Air France	DH4	LUX	74	63	DEP
1920	BA1030	British Airways	E90	MXP	98	83	DEP
1925	LH018	Lufthansa	E90	DUS	98	83	DEP
1925	AF5029	Air France	DH4	ORY	74	63	DEP
1925	SK004	SAS	E90	OSL	98	83	DEP
1930	BA3298	British Airways	E70	ABZ	76	38	DEP
1930	BA3288	British Airways	E70	IOM	76	38	DEP
1935	AF5087	Air France	DH4	RTM	74	37	DEP
1940	LG4598	Luxair	DH4	LUX	74	37	DEP
1940	LH006	Lufthansa	E90	MUC	98	49	DEP
1940	LX455	SWISS	C10	ZRH	110	55	DEP
1945	AF5199	Air France	E90	AMS	98	49	DEP
1945	OS004	Austrian	E90	VIE	98	49	DEP
1950	LX487	SWISS	C10	BSL	110	55	DEP
1950	BA8718	British Airways	C10	EDI	110	55	DEP
2015	BA8730	British Airways	E90	GLA	98	49	DEP
2025	AF5177	Air France	DH4	DND	74	37	DEP
2030	AF5239	Air France	DH4	ANR	74	30	DEP
2035	AF5089	Air France	DH4	RIM	74	30	DEP
2035 2050	AF5089 BA8714	Air France British Airways	DH4 C10	EDI	74 110	30 44	DEP

2012 - Timetable

Time	Flight No	Airline	Туре	To/From	Seats	Passengers	Arr/Dep
0705	AF5070	Air France	F50	RTM	50	45	ARR
0705	AF5230	Air France	F50	ANR	50	45	ARR
0710	LG4591	Luxair	DH4	LUX	74	67	ARR
0715	BA002	British Airways	318	JFK	32	29	ARR
0/15	LH926	Lutthansa	E90	FRA	98	88	ARR
0720	AF5180	Air France		AIVIS	82	/4	
0725	BA8450	Air Eropoo	E70	AIVIS	76	68	
0730	AF5212	Air France	F50		50	45	
0735	RA8731	Rritish Airways	F70	FRA	76	68	ARR
0745	AE5090	Air France	E50	FIN	50	45	ARR
0750	SX500	Skywork	D38	BRN	29	26	ARR
0755	AF5072	Air France	F50	RTM	50	45	ARR
0755	LX484	SWISS	AR1	BSL	97	87	ARR
0800	AF5232	Air France	F50	ANR	50	45	ARR
0805	BA8701	British Airways	E90	EDI	98	88	ARR
0805	LX442	SWISS	AR1	GVA	97	87	ARR
0805	LX450	SWISS	AR1	ZRH	97	87	ARR
0810	AF5182	Air France	AR8	AMS	82	74	ARR
0815	AF5116	Air France	AR8	DUB	82	74	ARR
0815	BA8721	British Airways	E90	GLA	98	88	ARR
0820	BA3291	British Airways	E70	ABZ	76	68	ARR
0820	BA8760	British Airways	E70	ZRH	76	68	ARR
0830	AF5158	Air France	AR8	EDI	82	/4	ARR
0830	VE/050	Alitalia Dritich Ainwowa	E90		98	88	ARR
0845	BA0201	British Airways	E90		98	88	
0845	SI712	Blue Islands	520 AT5	IFR	19	45	ARR
0845	ΔE5118	Air France	AR8		40 82	43	ARR ARR
0855	AE5184	Air France	AR8	AMS	82	74	ABB
0900	AE5074	Air France	F50	RTM	50	45	ARR
0900	BA8490	British Airways	E70	ARN	76	68	ARR
0905	AF5020	Air France	F50	ORY	50	30	ARR
0905	BA8752	British Airways	E90	MAD	98	59	ARR
0910	BA8705	British Airways	E90	EDI	98	59	ARR
0910	BA8723	British Airways	E90	GLA	98	59	ARR
0915	BA8209	British Airways	D38	BLL	32	19	ARR
0920	LH928	Lufthansa	E90	FRA	98	59	ARR
0930	LX460	SWISS	AR1	ZRH	97	58	ARR
1000	AF5170	Air France	D38	DND	31	19	ARR
1005	BA004	British Airways	318	JFK	32	19	ARR
1010	BA8703	British Airways	E90	EDI	98	59	ARR
1015	BA8739	British Airways	E90	GLA	98	59	ARR
1020	AF5120	Air France	AR8	DOR	82	49	ARR
1025	AF3102	All France	D30		76	19	
1045	BA8764	British Airways	E70	ZBH	76	30	Ann ARR
1105	ΔE5186	Air France	AR8		82	33	ARR
1110	AF5234	Air France	F50	ANR	50	20	ARR
1125	AF5294	Air France	F50	FMO	50	20	ARR
1130	BA8452	British Airways	E90	AMS	98	39	ARR
1150	LG4593	Luxair	DH4	LUX	74	30	ARR
1155	BA8725	British Airways	E90	GLA	98	39	ARR
1205	BA8715	British Airways	E70	EDI	76	30	ARR
1210	BA8733	British Airways	E70	FRA	76	30	ARR
1240	AF5076	Air France	F50	RTM	50	20	ARR
1250	LX456	SWISS	AR1	ZRH	97	39	ARR
1320	LX434	SWISS	AR1	GVA	97	39	ARR
1325	SX508	Skywork	D38	BRN	29	12	ARR
1330	BA3295	British Airways	E/0	ABZ	/6	30	AKK
1410	AF3188	AIT France	AH8	AIVIS	82	33	
1410	BA8/72	British Airways	320 Egn	BCN	00	20	
1440	AF5280	Air France	AB8	FLB	80	22 29	ABB
1455	AF5216	Air France	F50	LUX	50	20	ARR
1500	AF5236	Air France	F50	ANR	50	20	ARR
1520	BA8713	British Airwavs	E90	EDI	98	39	ARR
1530	LG4595	Luxair	DH4	LUX	74	30	ARR
1550	AF5122	Air France	D38	DUB	31	12	ARR
1550	BA8480	British Airways	E90	VCE	98	39	ARR
1605	AF5080	Air France	F50	RTM	50	20	ARR
1615	LX436	SWISS	AR1	GVA	97	39	ARR
1625	BA8454	British Airways	E90	AMS	98	39	ARR
1625	LH934	Lufthansa	E90	FRA	98	39	ARR
1630	AF5166	Air France	D38	EDI	31	19	ARR
1640	LX464	SWISS	AR1	ZRH	97	58	ARR
1655	VE7052	Alitalia	E90	LIN	98	59	ARR
1705	AF5082	Air France	F50	RIM	50	30	ARK
1720	RA0707	Rritish Aircour	AR8	AIVIS GLA	82	49	

Period	Load Factor
Shoulder	60%
Peak	90%
Off-Peak	40%

Passengers at the Airport

	Arrivals	Departures	Total
08:00 - 09:00	1166	1042	2209
17:00 - 18:00	521	590	1112

Passengers on Surface Access

	Arrivals	Departures	Total
08:00 - 09:00	536	1134	1670
17:00 - 18:00	946	623	1569

1730	1200766	Dritich Aimeour	E00	7011	00	00	
	DA0/00	british Airways	E90		90	00	Ann
1735	AF5238	Air France	F50	ANR	50	45	ARR
1740	LH936	Lufthansa	E90	FRA	98	88	ARR
1750	AE5024	Air France	E50	OBY	50	45	ARR
1750	1 1 1 1 2 4	CW/ICC	1 30	7011	50	40	
1750	LX466	SWISS	AR1	ZRH	97	8/	ARR
1800	SX502	Skywork	D38	BRN	29	26	AKR
1805	AF5096	Air France	F50	EIN	50	45	ARR
1805	BA8707	British Airways	E70	FDI	76	68	ARR
1010	DAOTEA	Dritich Airwayo			00	00	
1810	BA8/54	British Airways	E90	MAD	98	88	ARR
1810	LX446	SWISS	AR1	GVA	97	87	ARR
1815	AF5196	Air France	AR8	AMS	82	74	ARR
1815	AE5218	Air France	AB8	LUX	82	74	ARR
1000	AFE004	Air Franco		DTM	50	45	
1020	AF3064		F30		50	40	Ann
1825	BA8492	British Airways	E70	ARN	76	68	ARR
1830	BA8456	British Airways	E70	AMS	76	68	ARR
1835	BA8211	British Airways	D38	BLL	32	29	ARR
1835	SI718	Blue Islands	AT5	IER	18	13	ABB
1000	01/10	Dide Islands	570		70	+0	
1840	BA8/35	British Airways	E/0	FRA	76	68	ARR
1850	AF5026	Air France	F50	ORY	50	45	ARR
1850	AF5126	Air France	AR8	DUB	82	74	ARR
1855	AE5208	Air France	E50	NTE	50	45	ARR
1000	BA3297	British Ainwove	\$20	IOM	50	10	APP
1900	DAJ207	Dritish Airways	520		50	40	Ann
1900	BA3297	British Airways	E/0	ABZ	/6	68	ARK
1905	AF5086	Air France	F50	RTM	50	45	ARR
1910	I G4597	Luxair	DH4	LUX	74	67	ARR
1910	1 X486	SMISS	AP1	BSI	07	97	ARP
1015	L/400	A:= E:=		ANAC	57	87	
1915	AF5198	Air France	AR8	AMS	82	74	AKK
1920	BA8709	British Airways	E90	EDI	98	88	ARR
1920	LX454	SWISS	AR1	ZRH	97	87	ARR
1945	BA8768	British Ainwave	E90	ZBH	02	50	ARR
1055	DA0450	Dritich Ainways	E70		70		
1955	BA8458	British Airways	E/0	AIVIS	76	46	ARR
2000	AF5028	Air France	F50	ORY	50	30	ARR
2000	AF5176	Air France	D38	DND	31	19	ARR
2005	AE5088	Air France	E50	BTM	50	30	ARR
2000	DA0717	Dritich Airwove	F 00		00	50	
2020	DA0/1/	Billish Airways	290	EDI	98	59	ANK
2020	BA8729	British Airways	E90	GLA	98	59	ARR
2025	AF5168	Air France	D38	EDI	31	19	ARR
2040	BA8737	British Airways	E90	FRA	98	39	ARR
2045	1 8440	SW/199		GV/A	50		
2040	LA44U	SVV133			9/	39	
2050	AF5222	AIr France	AH8	DOR	82	33	АКК
2115	LX462	SWISS	AR1	ZRH	97	39	ARR
0630	LX463	SWISS	AR1	ZRH	97	58	DEP
0645	1 8441	SMISS		GV/A	07	50	DEP
0700		Air Fronze	ADO		57	36	
0700	AF5115	AIT France	AR8	DOR	82	/4	DEP
0700	BA8700	British Airways	E90	EDI	98	88	DEP
0700	BA8763	British Airways	E70	ZRH	76	68	DEP
			D 00			20	DEP
0705	AF5150	Air France	1):28	IEDI	21	20	
0705	AF5159	Air France	D38	EDI	31		
0705 0705	AF5159 BA8720	Air France British Airways	D38 E90	EDI GLA	31 98	88	DEP
0705 0705 0735	AF5159 BA8720 AF5071	Air France British Airways Air France	D38 E90 F50	EDI GLA RTM	31 98 50	88 45	DEP DEP
0705 0705 0735 0735	AF5159 BA8720 AF5071 AF5295	Air France British Airways Air France Air France	D38 E90 F50 F50	EDI GLA RTM FMO	31 98 50 50	88 45 45	DEP DEP DEP
0705 0705 0735 0735 0740	AF5159 BA8720 AF5071 AF5295 LG4592	Air France British Airways Air France Air France Luxair	D38 E90 F50 F50 DH4	EDI GLA RTM FMO LUX	31 98 50 50 74	88 45 45 67	DEP DEP DEP DEP
0705 0705 0735 0735 0740	AF5159 BA8720 AF5071 AF5295 LG4592	Air France British Airways Air France Air France Luxair	D38 E90 F50 F50 DH4 E00	EDI GLA RTM FMO LUX	31 98 50 50 74	88 45 45 67	DEP DEP DEP DEP
0705 0705 0735 0735 0740 0750	AF5159 BA8720 AF5071 AF5295 LG4592 LH927	Air France British Airways Air France Air France Luxair Lufthansa	D38 E90 F50 F50 DH4 E90	EDI GLA RTM FMO LUX FRA	31 98 50 50 74 98	88 45 45 67 88	DEP DEP DEP DEP DEP DEP
0705 0705 0735 0735 0740 0750 0750	AF5159 BA8720 AF5071 AF5295 LG4592 LH927 AF5181	Air France British Airways Air France Air France Luxair Lufthansa Air France	D38 E90 F50 F50 DH4 E90 AR8	EDI GLA RTM FMO LUX FRA AMS	31 98 50 50 74 98 82	88 45 45 67 88 74	DEP DEP DEP DEP DEP DEP DEP
0705 0705 0735 0735 0740 0750 0750 0755	AF5159 BA8720 AF5071 AF5295 LG4592 LH927 AF5181 BA8497	Air France British Airways Air France Air France Luxair Lufthansa Air France British Airways	D38 E90 F50 F50 DH4 E90 AR8 E70	EDI GLA RTM FMO LUX FRA AMS AMS	31 98 50 50 74 98 82 76	88 45 45 67 88 74 68	DEP DEP DEP DEP DEP DEP DEP DEP
0705 0735 0735 0735 0740 0750 0750 0755 0800	AF5159 BA8720 AF5071 AF5295 LG4592 LH927 AF5181 BA8497 AF5213	Air France British Airways Air France Air France Luxair Lufthansa Air France British Airways Air France	D38 E90 F50 F50 DH4 E90 AR8 E70 F50	EDI GLA RTM FMO LUX FRA AMS AMS LUX	31 98 50 50 74 98 82 76 50	88 45 45 67 88 74 68 45	DEP DEP DEP DEP DEP DEP DEP DEP DEP
0705 0735 0735 0735 0740 0750 0750 0755 0800 0805	AF5159 BA8720 AF5071 AF5295 LG4592 LH927 AF5181 BA8497 AF5213 AF5019	Air France British Airways Air France Air France Luxair Lufthansa Air France British Airways Air France	D38 E90 F50 DH4 E90 AR8 E70 F50 E50	EDI GLA RTM FMO LUX FRA AMS AMS LUX OBY	31 98 50 50 74 98 82 76 50	88 45 45 67 88 74 68 45	DEP DEP DEP DEP DEP DEP DEP DEP DEP
0705 0705 0735 0735 0740 0750 0750 0755 0800 0805	AF5159 BA8720 AF5071 AF5295 LG4592 LH927 AF5181 BA8497 AF5213 AF5019 BA825	Air France British Airways Air France Air France Luxair Luxtinansa Air France British Airways Air France Air France	D38 E90 F50 DH4 E90 AR8 E70 F50 F50	EDI GLA RTM FMO LUX FRA AMS AMS LUX ORY ED	31 98 50 50 74 98 82 76 50 50	88 45 45 67 88 74 68 45 45	DEP DEP DEP DEP DEP DEP DEP DEP DEP
0705 0705 0735 0735 0740 0750 0755 0800 0805 0805	AF5159 BA8720 AF5071 AF5295 LG4592 LH927 AF5181 BA8497 AF5213 AF5019 BA8732	Air France British Airways Air France Air France Luxair Lufthansa Air France British Airways Air France British Airways	D38 E90 F50 DH4 E90 AR8 E70 F50 F50 E70	EDI GLA RTM FMO LUX FRA AMS AMS LUX ORY FRA	31 98 50 74 98 82 76 50 50 76	88 45 67 88 74 68 45 45 45 68	DEP DEP DEP DEP DEP DEP DEP DEP DEP DEP
0705 0705 0735 0735 0740 0750 0750 0750 0755 0800 0805 0805 0815	AF5159 BA8720 AF5071 AF5295 LG4592 LH927 AF5181 BA8497 AF5213 AF5019 BA8732 AF5091	Air France British Airways Air France Luxair Lufthansa Air France British Airways Air France British Airways Air France British Airways	D38 E90 F50 DH4 E90 AR8 E70 F50 F50 F50 F50 F50 F70 F50 E70	EDI GLA RTM FMO LUX FRA AMS AMS LUX ORY FRA EIN	31 98 50 50 74 98 82 76 50 50 50 76 50	88 45 67 88 74 68 45 45 68 45 68 45	DEP DEP DEP DEP DEP DEP DEP DEP DEP DEP
0705 0705 0735 0735 0740 0750 0750 0755 0800 0805 0805 0815 0820	AF5159 BA8720 AF5071 AF5295 LG4592 LH927 AF5181 BA8497 AF5213 AF5019 BA8732 AF5091 SX501	Air France British Airways Air France Luxair Luxtinansa Air France British Airways Air France British Airways Air France British Airways Air France British Airways Air France	D38 E90 F50 DH4 E90 AR8 E70 F50 F50 E70 F50 E70 F50 D38	EDI GLA RTM FMO LUX FRA AMS LUX ORY FRA EIN BRN	31 98 50 50 74 98 82 76 50 50 50 76 50 29	88 45 67 88 74 68 45 45 68 45 68 45 26	DEP DEP DEP DEP DEP DEP DEP DEP DEP DEP
0705 0705 0735 0735 0740 0750 0750 0755 0800 0805 0805 0815 0820 0825	AF5159 BA8720 AF5071 AF5295 LG4592 LH927 AF5181 BA8497 AF5213 AF5019 BA8732 AF5091 SX501 AF5073	Air France British Airways Air France Luxair Luthansa Air France British Airways Air France British Airways Air France British Airways Air France Skywork Air France	D38 E90 F50 DH4 E90 AR8 E70 F50 F50 F50 E70 F50 D38 E50	EDI GLA RTM FMO LUX FRA AMS AMS LUX ORY FRA EIN BRN BRN BTM	31 98 50 50 74 98 82 76 50 50 50 76 50 29 50	88 45 67 88 74 68 45 45 68 45 68 45 266	DEP DEP DEP DEP DEP DEP DEP DEP DEP DEP
0705 0705 0735 0735 0740 0750 0750 0755 0800 0805 0805 0815 0820 0825	AF5159 BA8720 AF5071 AF5295 LG4592 LH927 AF5181 BA8497 AF5213 AF5019 BA8732 AF5091 SX501 AF5073	Air France British Airways Air France Air France Luxair Lufthansa Air France British Airways Air France British Airways Air France Shywork Air France	D38 E90 F50 DH4 E90 AR8 E70 F50 E70 F50 D38 F50 D38 F50	EDI GLA RTM FMO LUX FRA AMS LUX ORY FRA EIN BRN RTM RTM	31 98 50 50 74 98 82 76 50 50 76 50 29 50	88 45 45 67 88 74 68 45 68 45 68 45 26 45	DEP DEP DEP DEP DEP DEP DEP DEP DEP DEP
0705 0705 0735 0735 0740 0750 0750 0755 0800 0805 0805 0805 0815 0820 0825 0825	AF5159 BA8720 AF5071 AF5295 LG4592 LH927 AF5181 BA8497 AF5213 AF5019 BA8732 AF5091 SX501 AF5073 LX451	Air France British Airways Air France Air France Luxair Luxthansa Air France British Airways Air France British Airways Air France British Airways Air France Skywork Air France SWISS	D38 E90 F50 DH4 E90 AR8 E70 F50 E70 F50 D38 F50 AR8	EDI GLA RTM FMO LUX FRA AMS AMS LUX ORY FRA EIN ERN RTM ZRH	31 98 50 50 74 98 82 76 50 50 76 50 29 50 97	88 45 67 88 74 68 45 45 68 45 68 45 26 45 26 45 87	DEP DEP DEP DEP DEP DEP DEP DEP DEP DEP
0705 0705 0735 0735 0740 0750 0750 0805 0805 0805 0805 0805 0825 0825 08	AF5159 BA8720 AF5071 AF5295 LG4592 LH927 AF5181 BA8497 AF5213 AF5019 BA8732 AF5091 SX501 AF5073 LX451 AF5231	Air France British Airways Air France Luxair Luthansa Air France British Airways Air France British Airways Air France British Airways Air France Skywork Air France SWISS Air France	D38 E90 F50 DH4 E90 AR8 E70 F50 F50 F50 F50 F50 F50 AR8 F50 AR8 F50 AR1 F50	EDI GLA RTM FMO LUX FRA AMS LUX ORY FRA EIN BRN RTM ZRH ANR	31 98 50 50 74 98 82 76 50 50 76 50 76 50 29 50 97 50	88 45 67 88 74 68 45 45 68 45 26 45 26 45 87 45	DEP DEP DEP DEP DEP DEP DEP DEP DEP DEP
0705 0705 0735 0735 0740 0750 0750 0750 0755 0800 0805 0805 080	AF5159 BA8720 AF5071 AF5295 LG4592 LH927 AF5181 BA8497 AF5213 AF5019 BA8732 AF5091 SX501 AF5073 LX451 AF5073 LX451 AF5231 BA8451	Air France British Airways Air France Luxair Luxtinansa Air France British Airways Air France British Airways Air France Skywork Air France Skywork Air France SWISS Air France British Airways	D38 E90 F50 DH4 E90 AR8 E70 F50 E70 F50 D38 F50 AR1 F50 E90	EDI GLA RTM FMO LUX FRA AMS AMS LUX ORY FRA EIN BRN RTM ZRH ANR ANR	31 98 50 50 74 98 82 76 50 50 76 50 299 50 97 50 97	88 45 45 67 88 74 68 45 68 45 68 45 26 45 26 45 26 87 5 88	DEP DEP DEP DEP DEP DEP DEP DEP DEP DEP
0705 0705 0735 0735 0740 0750 0750 0755 0800 0805 0805 0805 080	AF5159 BA8720 AF5071 AF5295 LG4592 LH927 AF5181 BA8497 AF5213 AF5019 BA8732 AF5091 SX501 AF5073 LX451 AF5231 BA8451 LX443	Air France British Airways Air France Air France Luxair Luxthansa Air France British Airways Air France British Airways Air France Skywork Air France SWISS Air France British Airways SWISS	D38 E90 F50 DH4 E90 AR8 E70 F50 F50 F50 E70 F50 AR8 F50 AR1 F50 AR1	EDI GLA RTM FMO LUX FRA AMS LUX ORY FRA EIN BRN RTM ZRH ANR AMS GVA	31 98 50 50 74 98 82 76 50 50 50 50 97 50 97 50 98 98	88 45 45 67 88 74 68 45 68 45 68 45 26 68 45 26 68 45 88 87	DEP DEP DEP DEP DEP DEP DEP DEP DEP DEP
0705 0705 0735 0735 0740 0750 0750 0755 0800 0805 0805 0815 0825 0825 0825 0830 0835 0835	AF5159 BA8720 AF5071 AF5295 LG4592 LH927 AF5181 BA8497 AF5213 AF5019 BA8732 AF5091 SX501 AF5073 LX451 AF5231 BA8451 LX443 LX443	Air France British Airways Air France Air France Luxair Lufthansa Air France British Airways Air France British Airways Air France Skywork Air France SWISS Air France British Airways SWISS SWISS	D38 E90 F50 DH4 E90 AR8 E70 F50 F50 F50 F50 F50 F50 F50 AR1 F50 E90 AR1 F50 AR1 F50 AR1 F50	EDI GLA RTM FMO LUX FRA AMS LUX ORY FRA EIN BRN RTM ZRH ANR AMS GVA BSI	31 98 50 50 74 98 82 76 50 50 50 76 50 76 50 99 50 97 50 98 97	88 45 45 67 88 74 68 45 45 68 45 26 87 45 87 45 88 88 87	DEP DEP DEP DEP DEP DEP DEP DEP DEP DEP
0705 0705 0735 0735 0740 0750 0750 0750 0805 0805 0805 0805 0825 0825 0825 08	AF5159 BA8720 AF5071 AF5295 LG4592 LG4592 LH927 AF5181 BA8497 AF5213 AF5019 BA8732 AF5091 SX501 AF5073 LX451 AF5073 LX451 BA8451 LX443 LX445	Air France British Airways Air France Luxair Luxair Luthansa Air France British Airways Air France British Airways Air France Skywork Air France Skywork Air France SWISS Air France British Airways SWISS SWISS	D38 E90 F50 DH4 E90 AR8 E70 F50 E70 F50 E70 F50 E70 F50 E70 F50 E70 F50 D38 F50 D38 AR1 F50 AR1 AR1 AR1 AR1	EDI GLA RTM FMO LUX FRA AMS LUX ORY FRA EIN BRN RTM ZRH ANR AMS GVA BSL	31 98 50 74 98 82 76 50 50 76 50 76 50 99 50 97 50 97 50 97	88 45 45 67 88 45 45 68 45 68 45 26 45 26 45 26 45 87 87 88 88 87	DEP DEP DEP DEP DEP DEP DEP DEP DEP DEP
0705 0705 0735 0735 0740 0750 0750 0755 0800 0805 0805 0805 0825 0825 0825 08	AF5159 BA8720 AF5071 AF5295 LG4592 LH927 AF5181 BA8497 AF5213 AF5019 BA8732 AF5091 SX501 AF5091 SX501 AF5073 LX451 AF5231 BA8451 LX443 LX445 AF5187	Air France British Airways Air France Air France Luxair Lufthansa Air France British Airways Air France British Airways Air France Skywork Air France SWISS Air France British Airways SWISS Air France British Airways SWISS Air France	D38 E90 F50 F50 DH4 E90 AR8 E70 F50 F50 F50 D38 F50 D38 F50 AR1 AR8	EDI GLA RTM FMO LUX FRA AMS LUX ORY FRA EIN BRN RTM ZRH ANR AMS GVA BSL AMS	31 98 50 50 744 98 82 76 50 50 76 50 29 50 97 50 997 50 98 977 97	88 45 67 88 74 68 45 68 45 68 45 26 68 45 26 68 45 28 87 45 88 87 74 5	DEP DEP DEP DEP DEP DEP DEP DEP DEP DEP
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0955	LH929	Lufthansa	E90	FRA	98	59	DEP
1000	LX461	SWISS	AR1	ZRH	97	58	DEP
1100	BA8479	British Airways	E90	VCE	98	39	DEP
1135	AE5185	Air France	AR8	AMS	82	33	DEP
1220	AE5233	Air France	F50		50	20	DEP
1220	L G4594				74	30	DEP
1220	AE5110	Air Eropoo	D114		21	10	
1220	AF3119	All France	D36		31	12	
1255	BA8/65	British Airways	E90	ZRH	98	39	DEP
1300	AF5163	Air France	D38	EDI	31	12	DEP
1305	BA8453	British Airways	E90	AMS	98	39	DEP
1310	AF5077	Air France	F50	RTM	50	20	DEP
1345	LX457	SWISS	AR1	ZRH	97	39	DEP
1355	LX435	SWISS	AR1	GVA	97	39	DEP
1355	SX509	Skywork	D38	BRN	29	12	DEP
1420	BA8726	British Airways	E90	GLA	98	39	DEP
1420	BA8716	British Airways	E70	EDI	76	30	DEP
1445	BA8734	British Airways	E70	FRA	76	30	DEP
1450	BA3286	British Airways	S20	IOM	50	20	DEP
1500	AE5217	Air France	AB8	LUX	82	33	DFP
1505	AE5235	Air France	F50		50	20	DEP
1510	AF5121	Air France	AB8	DUB	82	20	DEP
1525	RA2206	Pritich Airwovo		AP7	76	20	
1525	DR3290	Air France			70	30	
1520	AFOU20	All Fidlice	F3U E70		50	20	
1530	DA0405	Dritish AirWays			/6	30	
1550	BA8/6/	British Airways	E90	ZKH	98	39	
1600	BA003	British Airways	318	JFK	32	13	DEP
1605	AF5193	Air France	AR8	AMS	82	33	DEP
1605	LG4596	Luxair	DH4	LUX	74	30	DEP
1610	BA8706	British Airways	E90	EDI	98	39	DEP
1620	AF5175	Air France	D38	DND	31	12	DEP
1635	AF5081	Air France	F50	RTM	50	30	DEP
1645	LX437	SWISS	AR1	GVA	97	58	DEP
1655	AF5209	Air France	F50	NTE	50	30	DEP
1655	AF5165	Air France	D38	EDI	31	19	DEP
1700	BA8738	British Airways	E90	FRA	98	59	DEP
1700	BA8724	British Airways	E90	GLA	98	59	DEP
1700	1 H935	Lufthansa	EGO	FRA	98	59	DEP
1705	DA9450	Pritich Ainwowo	E70	AME	76	35	DEP
1705	DA0439	Dritich Airways	E70		70	40	
1710	DA0712	CWIEC			90	59	
1710	LA403	GOLANG					
1705	1/53050		Fee	21111	97	58	DLI
1725	VE7053	Alitalia	E90	LIN	97	59	DEP
1725 1735	VE7053 AF5123	Alitalia Air France	E90 AR8	LIN	98 82	59 74	DEP
1725 1735 1735	VE7053 AF5123 AF5083	Alitalia Air France Air France	E90 AR8 F50	LIN DUB RTM	98 82 50	59 74 45	DEP DEP DEP
1725 1735 1735 1750	VE7053 AF5123 AF5083 AF5195	Alitalia Air France Air France Air France	E90 AR8 F50 AR8	LIN DUB RTM AMS	98 98 82 50 82	58 59 74 45 74	DEP DEP DEP DEP
1725 1735 1735 1750 1800	VE7053 AF5123 AF5083 AF5195 BA8728	Alitalia Air France Air France Air France British Airways	E90 AR8 F50 AR8 E90	LIN DUB RTM AMS GLA	98 98 82 50 82 98	58 59 74 45 74 88	DEP DEP DEP DEP DEP DEP
1725 1735 1735 1750 1800 1800	VE7053 AF5123 AF5083 AF5195 BA8728 BA8708	Alitalia Air France Air France Air France British Airways British Airways	E90 AR8 F50 AR8 E90 E90	LIN DUB RTM AMS GLA EDI	97 98 82 50 82 98 98	58 59 74 45 74 88 88	DEP DEP DEP DEP DEP DEP DEP
1725 1735 1735 1750 1800 1800 1805	VE7053 AF5123 AF5083 AF5195 BA8728 BA8708 AF5027	Alitalia Air France Air France Air France British Airways British Airways Air France	E90 AR8 F50 AR8 E90 E90 F50	LIN DUB RTM AMS GLA EDI ORY	97 98 82 50 82 98 98 98 50	58 59 74 45 74 88 88 88 45	DEP DEP DEP DEP DEP DEP DEP DEP
1725 1735 1735 1750 1800 1800 1805 1815	VE7053 AF5123 AF5083 AF5195 BA8728 BA8708 AF5027 LH937	Alitalia Air France Air France Air France British Airways British Airways Air France Lufthansa	E90 AR8 F50 AR8 E90 E90 F50 E90	LIN DUB RTM AMS GLA EDI ORY FRA	98 82 50 82 98 98 98 50 98	58 59 74 45 74 88 88 88 88 88 88	DEP DEP DEP DEP DEP DEP DEP DEP DEP DEP
1725 1735 1735 1750 1800 1800 1805 1815 1820	VE7053 AF5123 AF5083 AF5195 BA8728 BA8708 AF5027 LH937 AF5237	Alitalia Air France Air France British Airways British Airways Air France Lufthansa Air France	E90 AR8 F50 AR8 E90 E90 F50 E90 F50	LIN DUB RTM AMS GLA EDI ORY FRA ANR	98 82 50 82 98 98 98 50 98 50	58 59 74 45 74 88 88 45 88 45 88 45	DEP DEP DEP DEP DEP DEP DEP DEP DEP DEP
1725 1735 1735 1750 1800 1800 1805 1815 1815 1820	VE7053 AF5123 AF5083 AF5195 BA8728 BA8708 AF5027 LH937 AF5237 LX467	Airatia Air France Air France British Airways British Airways Air France Lufthansa Air France SWISS	E90 AR8 F50 AR8 E90 E90 F50 E90 F50 AR1	LIN DUB RTM AMS GLA EDI ORY FRA ANR ZRH	98 98 82 50 82 98 98 98 50 98 50 98 50	335 59 74 45 74 88 88 88 45 88 88 45 88 88 87	DEP DEP DEP DEP DEP DEP DEP DEP DEP DEP
1725 1735 1735 1750 1800 1800 1805 1815 1820 1820 1820	VE7053 AF5123 AF5083 AF5195 BA8728 BA8708 AF5027 LH937 AF5237 LX467 SX503	Alitalia Air France Air France British Airways British Airways Air France Lufthansa Air France SWISS Skywork	E90 AR8 F50 AR8 E90 E90 F50 E90 F50 AR1 D38	LIN DUB RTM AMS GLA EDI ORY FRA ANR ZRH BRN	97 98 82 50 82 98 98 50 98 50 98 50 97 29	58 59 74 45 74 88 88 45 88 45 88 45 87 26	DEP DEP DEP DEP DEP DEP DEP DEP DEP DEP
1725 1735 1735 1750 1800 1800 1805 1815 1820 1820 1830 1835	VE7053 AF5123 AF5083 AF5195 BA8728 BA8708 AF5027 LH937 AF5237 LX467 SX503 AF5097	Alitalia Air France Air France British Airways British Airways Air France Lufthansa Air France SWISS Skywork Air France	E90 AR8 F50 AR8 E90 E90 F50 E90 F50 AR1 D38 F50	LIN DUB RTM AMS GLA EDI ORY FRA ANR ZRH BRN EIN	98 98 82 50 82 98 98 98 50 98 50 97 29 50	35 59 74 45 74 45 74 88 88 88 45 88 45 88 45 87 26 6 45	DEP DEP DEP DEP DEP DEP DEP DEP DEP DEP
1725 1735 1735 1750 1800 1800 1805 1815 1820 1820 1830 1835 1835	VE7053 AF5123 AF5083 AF5195 BA8728 BA8708 AF5027 LH937 AF5237 LX467 SX503 AF5097 BA8769	Airialia Air France Air France Air France British Airways British Airways Air France Lufthansa Air France SWISS Skywork Air France Rytish Airways	E90 AR8 F50 AR8 E90 F50 E90 F50 F50 AR1 D38 F50 E70	LIN DUB RTM AMS GLA EDI ORY FRA ANR ZRH BRN EIN ZBH	98 98 82 50 82 98 98 98 50 98 50 97 29 50 76	35 59 59 74 45 74 88 88 88 88 88 45 88 88 45 87 26 45 68	DEP DEP DEP DEP DEP DEP DEP DEP DEP DEP
1725 1735 1735 1750 1800 1800 1805 1815 1820 1820 1830 1835 1835	VE7053 AF5123 AF5083 AF5195 BA8728 BA8708 AF5027 LH937 AF5237 LX467 SX503 AF5097 BA8769 BA8769	Airialia Air France Air France British Airways British Airways Air France Lufthansa Air France SWISS Skywork Air France British Airways British Airways	E90 AR8 F50 AR8 E90 E90 F50 E90 F50 AR1 D38 F50 E70 E90	LIN DUB RTM AMS GLA EDI ORY FRA ANR ZRH BRN EIN ZRH EIN ZRH	98 98 82 50 82 98 98 98 50 98 50 97 29 50 70 6 6 6	355 59 74 45 74 45 74 88 88 45 88 88 45 87 26 45 68	DEP DEP DEP DEP DEP DEP DEP DEP DEP DEP
1725 1735 1735 1750 1800 1800 1805 1815 1820 1820 1830 1835 1835 1840	VE7053 AF5123 AF5195 BA8728 BA8708 AF5027 LH937 AF5237 LX467 SX503 AF5097 BA8769 BA8755 UX47	Airialia Air France Air France British Airways British Airways Air France Lufthansa Air France SWISS Skywork Air France British Airways British Airways	E90 AR8 F50 AR8 E90 F50 E90 F50 F50 AR1 D38 F50 E70 E90 AP1	LIN DUB RTM AMS GLA EDI ORY FRA ANR ZRH BRN EIN ZRH BRN EIN ZRH MAD	98 98 82 98 98 98 98 98 50 98 50 97 29 50 76 8 98	355 59 74 45 74 45 74 88 88 88 88 88 88 88 87 26 45 68 88 88 88 88 88 88	DEP DEP
1725 1735 1735 1750 1800 1800 1805 1815 1820 1820 1830 1835 1835 1840 1840	VE7053 AF5123 AF5083 AF5195 BA8728 BA8708 AF5027 LH937 AF5237 LX467 SX503 AF5097 BA8769 BA8755 LX447 AE5107	Alitalia Air France Air France British Airways British Airways Air France Lufthansa Air France SWISS Skywork Air France British Airways British Airways British Airways	AR8 F50 AR8 E90 F50 AR1 D38 F50 E70 E90 AR1 D38 F50 E70 AR1	LIN DUB RTM AMS GLA EDI ORY FRA ANR ZRH BRN EIN ZRH MAD GVA	97 98 82 50 82 98 98 98 98 50 98 50 97 29 50 76 98 98	38 59 74 45 74 45 74 88 88 45 88 45 88 45 87 26 68 88 88 88 88 87 72	DEP DEP
1725 1735 1735 1750 1800 1805 1815 1820 1820 1820 1820 1835 1835 1840 1840 1840	VE7053 AF5123 AF5083 AF5195 BA8728 BA8708 AF5027 LH937 AF5027 LX467 SX503 AF5097 BA8769 BA8755 LX447 AF5197 AF5197	Airialia Air France Air France Air France British Airways British Airways British Airways Air France SWISS Skywork Air France British Airways British Airways SWISS Air France	E90 AR8 F50 AR8 E90 E90 F50 E90 F50 AR1 D38 F50 E70 E90 AR1 AR1 AR2	LIIN DUB RTM AMS GLA EDI ORY FRA ANR ZRH BRN EIN ZRH BRN EIN ZRH GVA AMS GVA	97 98 82 50 82 98 98 98 50 98 50 97 29 50 76 98 97 76 98 977	33 59 59 74 45 74 88 88 45 88 45 88 45 26 45 68 88 88 87 74	DEP
1725 1735 1735 1750 1800 1800 1805 1815 1820 1830 1830 1835 1835 1840 1840 1845 1845	VE7053 AF5123 AF5083 AF5195 BA8728 BA8708 AF5027 LH937 AF5237 LX467 SX503 AF5097 BA8769 BA8755 LX447 AF5197 AF5167	Airialia Air France Air France Air France British Airways British Airways Air France Lufthansa Air France SWISS Skywork Air France British Airways British Airways British Airways Air France Air France Air France	E90 AR8 F50 AR8 E90 F50 E90 F50 E90 F50 AR1 D38 F50 E70 E90 AR1 AR8 AR8 EF6	LIIN DUB RTM AMS GLA EDI ORY FRA ANR ZRH BRN EIN ZRH BRN EIN ZRH BRN EIN ZRH BRN EIN ZRH BRN EIN ZRH BRN EIN CVA AMS EDI	97 988 82 50 82 98 98 98 50 98 50 97 299 50 76 98 97 82 82 82	33 59 59 74 45 74 88 88 45 88 45 88 45 68 45 68 88 88 88 88 87 74	DEP
1725 1735 1735 1735 1800 1800 1805 1815 1820 1820 1830 1835 1835 1840 1840 1845 1845	VE7053 AF5123 AF5083 AF5195 BA8728 BA8708 AF5027 LH937 AF5237 LX467 SX503 AF5097 BA8769 BA8755 LX447 AF5197 AF5167 AF5085	Alitalia Air France Air France British Airways British Airways Air France Lufthansa Air France SWISS Skywork Air France British Airways British Airways British Airways SWISS SWISS Air France Air France Air France	E90 AR8 F50 AR8 E90 F50 E90 F50 AR1 D38 F50 E70 E70 E70 E70 E70 AR1 AR8 AR8 F50	LIN DUB RTM AMS GLA EDI ORY FRA ANR ZRH BRN EIN ZRH BRN EIN ZRH MAD GVA AMS EDI RTM	97 988 82 98 98 98 98 98 98 50 97 299 50 76 76 98 97 82 82 82 50	355 59 74 45 74 45 74 88 88 88 45 87 26 45 68 88 88 88 87 74 45	DEP
1725 1735 1735 1750 1800 1800 1805 1815 1820 1820 1830 1835 1835 1835 1835 1840 1845 1845 1845 1845 1850	VE7053 AF5123 AF5195 BA8728 BA8708 AF5027 LH937 AF5237 LX467 SX503 AF5097 BA8769 BA8755 LX447 AF5197 AF5167 AF5167 AF5085 BA8457	Airialia Air France Air France Air France British Airways British Airways British Airways British Airways SwiSS Skywork Air France British Airways SWISS Air France Air France Air France Air France British Airways	E90 AR8 F50 AR8 E90 E90 F50 E90 F50 AR1 D38 F50 E70 E90 AR1 AR8 AR8 F50 E70 E70	LIIN DUB RTM AMS GLA EDI ORY FRA ANR ZRH BRN EIN ZRH GVA AMS EDI RTM AMS	97 988 82 50 82 98 98 98 50 98 50 97 29 50 76 98 97 82 29 50 76 98 97 76 98 97 76 98	38 59 74 45 74 88 88 88 45 88 45 88 45 87 26 68 88 88 88 77 4 74 45 68	DEP
1725 1735 1735 1750 1800 1800 1805 1815 1820 1830 1830 1835 1835 1840 1840 1845 1845 1845 1845 1845 1900	VE7053 AF5123 AF5083 AF5195 BA8728 BA8708 AF5027 LH937 AF5027 LX467 SX503 AF5097 BA8769 BA8755 LX447 AF5197 AF5167 AF5085 BA8457 BA8212	Airialia Air France Air France Air France British Airways British Airways British Airways Air France British Airways British Airways SWISS Air France Air France Air France Air France British Airways British Airways British Airways	E90 AR8 F50 AR8 E90 E90 F50 E90 AR1 D38 F50 E70 E90 AR1 AR8 AR8 F50 E70 D38	LIIN DUB RTM AMS GLA EDI ORY FRA ANR ZRH BRN EIN ZRH BRN EIN ZRH GVA AMS EDI GVA AMS EDI	97 98 82 50 82 98 98 50 98 50 97 29 50 76 98 97 29 50 76 98 97 76 98 97 76 32	33 59 59 74 45 74 88 88 45 88 45 88 45 26 45 68 88 88 88 87 74 74 74 45 68 88 88 88 88 88 88 88 88 88 88 88 88	DEP
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2021 - Without Development Timetable

Time	Flight No	Airline	Туре	To/From	Seats	Passengers	Arr/Dep
0705	AF5230	Air France	AT5	ANR	50	45	ARR
0705	AF5070	Air France	AT5	RTM	50	45	ARR
0/10	LG4591	Luxair	DH4		/4	67	ARR
0715	LH920 BA002	Rritich Ainwave	218	IEK	98	20	ARR ARR
0720	AE5180	Air France	F90	AMS	98	88	ARR
0725	BA8450	British Airways	E70	AMS	76	68	ARR
0725	LH001	Lufthansa	E90	MUC	98	88	ARR
0730	AF5212	Air France	AT5	LUX	50	45	ARR
0730	LH011	Lufthansa	DH4	DUS	74	67	ARR
0735	AF5018	Air France	AT5	ORY	50	45	ARR
0735	BA8731	British Airways	E70	FRA	76	68	ARR
0745	AF5090	Air France	A15	EIN	50	45	ARR
0750	BA1009	British Airways			76	68	ARR
0755	AE5072	Air France			50	45	
0755	LX484	SWISS	C10	ZRH	110	99	ARR
0800	AF5232	Air France	AT5	ANR	50	45	ARR
0805	BA8701	British Airways	E90	EDI	98	88	ARR
0805	LX442	SWISS	C10	GVA	110	99	ARR
0810	AF5182	Air France	E90	AMS	98	88	ARR
0815	AF5116	Air France	E90	DUB	98	88	ARR
0815	BA8721	British Airways	E90	GLA	98	88	ARR
0820	LH023	Lufthansa	AT5	TXL	48	43	ARR
0820	BA3291	British Airways	E70	ABZ	76	68	ARK
0820	DX001	Estonian Airways	E/0	ZRH	/6	68	
0820	AE5159	Air France	E90	FDI	00	101	
0830	VE7050	Alitalia	E90		98	88	ARR
0835	BA8711	British Ainwave	E90	EDI	98	88	ABB
0840	L X450	SWISS	C10	BSI	110	99	ARR
0840	SI712	Blue Islands	AT5	JER	48	43	ARR
0845	BA3281	British Airways	E70	IOM	76	68	ARR
0855	AF5184	Air France	E90	AMS	98	88	ARR
0900	AF5118	Air France	E90	DUB	98	88	ARR
0900	AF5074	Air France	AT5	RTM	50	45	ARR
0900	BA8490	British Airways	E70	ARN	76	68	ARR
0905	AF5020	Air France	AT5	ORY	50	45	ARR
0905	BA8752	British Airways	E90	MAD	98	88	ARR
0905	LH019	Lufthansa	AT5	HAM	48	43	ARR
0910	BA8705	British Airways	E90	EDI	98	88	ARR
0910	BA8723	British Airways	E90	GLA	98	88	ARR
0915	BA8209	British Airways	A15	BLL	48	43	ARR
0915	LHUU3 RA1002	Luitnansa Britich Ainwovo	E90	RCN	98	88	
0920	DA 1003	Lufthanca	E90		90	00	
0920	SI001	Riuo Ielande	AT5	GCL		43	ARR ARR
0920	SK1001	SAS	DH4	CPH	74	43	ARR
0930	LX460	SWISS	C10	ZRH	110	66	ARR
1000	AF5170	Air France	AT5	DND	50	30	ARR
1005	BA004	British Airways	318	JFK	32	19	ARR
1010	BA8703	British Airways	E90	EDI	98	59	ARR
1015	BA8739	British Airways	E90	GLA	98	59	ARR
1020	AF5120	Air France	E90	DUB	98	59	ARR
1025	AF5162	Air France	E90	EDI	98	59	ARR
1030	BA1032	British Airways	E90	FRA	98	39	ARR
1045	BA8496	British Airways	E70	AMS	76	30	ARR
1045	BA8/64	British Airways	E/0	ZRH	/6	30	ARR
1105	AF3186	Alitalia	E90		98	39	
1110	AE5234	Air France	AT5	ANR	98 50	39	ARR
1125	AF5294	Air France	AT5	NTE	50	20	ARR
1130	BA8452	British Airways	E90	AMS	98	39	ARR
1150	LG4593	Luxair	DH4	LUX	74	30	ARR
1155	BA8725	British Airways	E90	GLA	98	39	ARR
1205	AF2001	Air France	AT5	ORY	50	20	ARR
1205	BA8715	British Airways	E70	EDI	76	30	ARR
1210	AF003	Air France	E90	DUB	98	39	ARR
1210	BA8733	British Airways	E70	FRA	76	30	ARR
1220	BA1024	British Airways	E90	MAD	98	39	ARR
1250	LX456	SWISS Dritich	C10	ZKH	110	44	AKK
1200	DA 1005	Driusn Airways	E90		98	39	
1320	LA434 BA1011	British Ainwave	E70	CPH	76	44	
1330	BA3295	British Ainways	E70	ABZ	76	30	ARR
1405	AF002	Air France	E90	EDI	98	30	ARR
1410	AF5188	Air France	E90	AMS	98	30	ARR
1415	BA3285	British Airways	E70	IOM	76	30	ARR
1420	LH025	Lufthansa	AT5	TXL	48	19	ARR
1425	BA8472	British Airways	E90	BCN	98	39	ARR
1430	LX001	SWISS	C10	BSL	110	44	ARR
1440	LH007	Lufthansa	DH4	MUC	74	30	ARR
1440	AF5280	Air France	E90	FLR	98	39	ARR
1445	LH015	Lufthansa	AT5	DUS	48	19	ARR
1455	AF5216	Air France	AT5	LUX	50	20	ARR
1500	BA1040	British Airways	E70	AKN	76	30	AKK

Period	Load Factor
Shoulder	60%
Peak	90%
Off-Peak	40%
Passengers a	the Airport

Passengers at the Airport								
	Arrivals	Departures	Total					
08:00 - 09:00	1341	1325	2666					
17:00 - 18:00	763	748	1510					

Passengers on Surface Access									
	Arrivals	Departures	Total						
08:00 - 09:00	830	1508		2338					
17:00 - 18:00	1377	670		2047					

1505	AF5236	Air France	AT5	ANR	50	20	ARR
1000	BA1034	British Airways	E90	EDI	98	39	ARR
1520	BA8713	British Airways	E90	EDI	98	39	ARR
1520	VE003	Alitalia	E90	LIN	98	39	ARR
1530	LG4595	Luxair	DH4	LUX	74	30	ARR
1550	AE005	Air France	AT5	PUF	50	20	ABB
1550	BA8480	British Airways	F90	VCF	98	39	ABB
1555	1 X007	SWISS	C10	784	110	44	ΔRR
1605	AE5080	Air Eranco	AT5	DTM	50	20	
1615	AT 3000		C10	CVA	110	20	
1615	LA430	Juffbanaa	E00	GVA	110	44	
1625		Dritich Ainwowe	E90		90	39	
1625	BA8454	British Airways	E90	AMS	98	39	ARR
1630	AF5166	Air France	E90	EDI	98	59	ARR
1635	BA1016	British Airways	E70	GLA	/6	46	ARR
1635	LH009	Lufthansa	DH4	MUC	/4	44	ARR
1655	BA1002	British Airways	E90	AMS	98	59	ARR
1655	VE/052	Alitalia	E90	LIN	98	59	ARR
1700	LX464	SWISS	C10	ZRH	110	66	ARR
1700	AF008	Air France	E90	NCE	98	59	ARR
1705	AF5082	Air France	AT5	RTM	50	30	ARR
1715	LH021	Lufthansa	AT5	HAM	48	29	ARR
1720	AF5194	Air France	E90	AMS	98	59	ARR
1730	BA8727	British Airways	E90	GLA	98	88	ARR
1730	BA8766	British Airways	E90	ZRH	98	88	ARR
1735	AF5238	Air France	AT5	ANR	50	45	ARR
1740	LH936	Lufthansa	E90	FRA	98	88	ARR
1745	SK1003	SAS	DH4	CPH	74	67	ARR
1750	AF5024	Air France	AT5	ORY	50	45	ARR
1750	LX466	SWISS	C10	ZRH	110	99	ARR
1800	SX502	Skywork	DH4	BRN	74	67	ARR
1805	AF5096	Air France	AT5	EIN	50	45	ARR
1805	BA8707	British Airways	E70	EDI	76	68	ABB
1805	LH027	Lufthansa	AT5	TXI	/0	42	ABB
1810	BA8754	British Ainwove	Fan	MAD	40	43	ARR
1810	1 8446	SWISS	C10	GVA	110	68	ARR
1010		Air Franco	E00	AME	110	99	
1015	AF5196	All France	E90	AIVIS	90	00	
1815	AF5218	Air France	E90	LUX	98	88	ARR
1820	AF5084	Air France	A15	RIM	50	45	ARR
1825	BA8492	British Airways	E70	ARN	/6	68	ARR
1830	BA8456	British Airways	E70	AMS	76	68	ARR
1830	LH017	Lufthansa	DH4	DUS	74	67	ARR
1835	BA8211	British Airways	AT5	BLL	48	43	ARR
1835	SI718	Blue Islands	AT5	JER	48	43	ARR
1840	BA1007	British Airways	E90	BCN	98	88	ARR
1840	BA8735	British Airways	E70	FRA	76	68	ARR
1850	AF5026	Air France	AT5	ORY	50	45	ARR
1850	AF5126	Air France	E90	DUB	98	88	ARR
1850	BA1013	British Airways	E70	CPH	76	68	ARR
1855	AF5208	Air France	AT5	NTE	50	45	ARR
1900	BA3287	British Airways	E70	IOM	76	68	ARR
1900	BA3297	British Airways	E70	ABZ	76	68	ARR
1905	AF5086	Air Eranco	AT5	RTM		45	
1905		AILLIANCE	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		50		ARR
1000	LH005	Lufthansa	E90	MUC	50 98	88	ARR ARR
1910	LH005 LG4597	Lufthansa	E90 DH4	MUC LUX	50 98 74	88	ARR ARR ARR
1910 1910	LH005 LG4597 LX486	Lufthansa Luxair SWISS	E90 DH4 C10	MUC LUX BSL	50 98 74 110	88 67 99	ARR ARR ARR ARR
1910 1910 1915	LH005 LG4597 LX486 AF5198	Lufthansa Luxair SWISS Air France	E90 DH4 C10 E90	MUC LUX BSL AMS	50 98 74 110 98	88 67 99 88	ARR ARR ARR ARR ARR
1910 1910 1915 1920	LH005 LG4597 LX486 AF5198 BA8709	Lufthansa Luxair SWISS Air France British Airways	E90 DH4 C10 E90 E90	MUC LUX BSL AMS EDI	50 98 74 110 98 98	88 67 99 88 88	ARR ARR ARR ARR ARR ARR
1910 1910 1915 1920 1920	LH005 LG4597 LX486 AF5198 BA8709 LX454	Lufthansa Luxair SWISS Air France British Airways SWISS	E90 DH4 C10 E90 E90 C10	MUC LUX BSL AMS EDI ZBH	50 98 74 110 98 98 110	88 67 99 88 88 88	ARR ARR ARR ARR ARR ARR ARR
1910 1910 1915 1920 1920 1945	LH005 LG4597 LX486 AF5198 BA8709 LX454 BA8768	Lufthansa Luxair SWISS Air France British Airways SWISS British Airways	E90 DH4 C10 E90 E90 C10 E90	MUC LUX BSL AMS EDI ZRH ZBH	50 98 74 110 98 98 110 98	88 67 99 88 88 88 99	ARR ARR ARR ARR ARR ARR ARR ARR ARR
1910 1910 1915 1920 1920 1945 1950	LH005 LG4597 LX486 AF5198 BA8709 LX454 BA8768 BA1036	Lufthansa Luxair SWISS Air France British Airways British Airways British Airways	E90 DH4 C10 E90 E90 C10 E90 E90 E90	MUC LUX BSL AMS EDI ZRH ZRH GLA	50 98 74 110 98 98 110 98 98 98	88 67 99 88 88 88 99 59 59	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1900 1910 1915 1920 1920 1945 1950	LH005 LG4597 LX486 AF5198 BA8709 LX454 BA8768 BA1036 BA8458	Lufthansa Luxair SWISS Air France British Airways British Airways British Airways British Airways	E90 DH4 C10 E90 E90 C10 E90 E90 E90 E70	MUC LUX BSL AMS EDI ZRH ZRH GLA AMS	50 98 74 110 98 98 110 98 98 98 76	88 67 99 88 88 88 99 59 59	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
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1310 1910 1910 1911 1912 1920 1920 1920 1920 1955 2000 2000 2002 2025 2045 2052 2045 2050 2105 2010 0630 0645 0655 0700 0705 0735 0750 0750 0750 0750	LH005 LG4597 LX486 AF5198 BA8709 LX454 BA8768 BA1036 BA4036 BA4036 BA4036 BA4036 BA4036 BA4036 BA4037 BA8729 AF5168 LX440 AF5222 BA8737 LX462 LX440 AF5222 BA8737 LX462 LX441 BA1033 BA1031 LX462 LX441 BA1033 BA1031 SA763 BA4970 AF5159 BA8720 AF5159 BA8720 AF5159 BA8720 AF5295 AF5071 BA8720 AF5071 BA8720 AF5071 BA8720 AF5071 BA8720 AF5071 BA8720 AF5071 BA8720 AF5071 BA8720 AF5071 BA8720 AF5071 BA8720 AF5071 BA8720 AF5071 BA8720 AF5071 BA8720 AF5071 BA8720 AF5071 BA8720 AF5171 BA8770 AF5171 BA8770 AF5171 BA8770 AF5171 BA8770 AF5171 BA8770 AF5171 BA8770 AF5171 BA8771 BA8771 AF5171 BA8771 AF5171 BA8771 AF5171 BA8771	Air France British Airways British Airways British Airways British Airways British Airways British Airways British Airways Air France British Airways Air France British Airways Air France British Airways Air France British Airways British Airways Air France British Airways British Airways Air France British Airways Air France British Airways British Airways	E90 DH4 C10 E90 E90 E90 E90 AT5 AT5 E90 E90 E90 E90	MUC LUX BSL AMS EDI ZRH GLA GLA MAS DND ORY FAO RTM EDI GLA EDI GUA FRA ZRH ZRH GVA MAD FRA ZRH EDI GUA FRA ZRH EDI GUA FRA ZRH EDI GUA FRA ZRH EDI GUA FRA ZRH CON FRA ZRH CON FRA ZRH CON FRA ZRH CON FRA ZRH CON FRA ZRH CON FRA ZRH CON FRA ZRH CON FRA ZRH CON FRA ZRH CON FRA ZRH CON FRA ZRH CON FRA CON FRA CON FRA ZRH CON FRA CON CON FRA CON FRA CON FRA CON FRA CON FRA CON FRA CON FRA CON FRA CON CON FRA CON CON CON FRA CON CON CON CON CON CON CON CON CON CON	500 988 744 110 988 988 988 988 988 988 988 988 988 98	10 88 88 67 99 88 88 88 88 88 88 99 59 46 300 59 59 44 66 66 66 66 66 66 66 66 66 66 66 66 66 66 67 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1910 1910 1910 1910 1920 1920 1920 1945 2000 2000 2000 2020 2022 2045 20105 20105 2115 0630 0645 0650 0700 0705 0735 0750 0755	LH005 LG4597 LX486 AF5198 BA8709 LX454 BA8768 BA1036 BA8768 BA1036 BA8763 BA8729 AF5176 AF5028 BA8717 BA8729 AF5168 LX440 AF5222 BA8737 LX462 LX440 AF5222 BA8737 LX462 LX441 BA1023 BA8731 LX462 LX441 BA1023 BA8700 AF51515 BA8720 AF5159 BA8720 AF5159 BA8720 AF5159 BA8720 AF5295 AF5071 LG4592 LH927 AF5181 BA8497 LH927	Air France British Airways British Airways British Airways British Airways British Airways British Airways British Airways Air France British Airways Air France British Airways Air France British Airways British Airways Air France British Airways Air France British Airways Air France British Airways Air France British Airways Air France Butish Airways	Higo DH4 C10 E90	MUC LUX BSL AMS EDI ZRH GLA GLA AMS DND ORY FAO RTM EDI GLA EDI GUA EDI GUA EDI GUA ZRH ZRH ZRH ZRH ZRH ZRH EDI EDI EDI EDI EDI EDI EDI EDI EDI EDI	500 988744 110 9889766 500 500 988988 988988 988988 988988 988988 1100 1100	10 88 67 99 88 88 88 88 88 88 88 88 99 59 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88 88	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR

0800	LH012	Lufthansa	DH4	DUS	74	67	DEP
0805	AF5019	Air France	AT5	ORY	48	43	DEP
0805	BA8732	British Airways	E70	FRA	76	68	DEP
0815	AF5091	Air France	AT5	EIN	50	45	DEP
0815	BA1010	British Airways	E70	CPH	76	68	DEP
0820	SX501	Skywork	DH4	BRN	74	67	DEP
0825	AF5073	Air France	AT5	RTM	50	45	DEP
0825	LX451	SWISS	C10	ZRH	110	99	DEP
0830	AF5231	Air France	AT5	ANR	50	45	DEP
0835	BA8451	British Airways	E90	AMS	98	88	DEP
0835	LX443	SWISS	C10	GVA	110	99	DEP
0840	AF5187	Air France	E90	AMS	98	88	DEP
0845	AF5117	Air France	E90	DUB	98	88	DEP
0845	BA8/22	British Airways	E90	GLA	98	88	DEP
0850	LHU24	Luitnansa Britich Ainwovo	A15 E70		48	43	DEP
0850	BA8702	British Airways	E70		76	60	
0850	01/002	Estonian Air	E90		112	101	
0000	AE007	Air France	E90	NCE	98	88	DEP
0900	VE7051	Alitalia	E90	LIN	98	88	DEP
0905	BA8471	British Airways	E90	BCN	98	88	DEP
0910	LX485	SWISS	C10	BSL	110	99	DEP
0910	SI713	Blue Islands	AT5	JER	48	43	DEP
0915	BA3282	British Airways	E70	IOM	76	68	DEP
0925	AF5183	Air France	E90	AMS	98	88	DEP
0930	AF5281	Air France	E90	FLR	98	59	DEP
0930	AF5021	Air France	AT5	ORY	48	29	DEP
0930	BA8491	British Airways	E70	ARN	76	46	DEP
0935	AF5075	Air France	AT5	RTM	50	30	DEP
0935	BA8753	British Airways	E90	MAD	98	59	DEP
0935	LH020	Lufthansa	AT5	HAM	48	29	DEP
0940	BA8704	British Airways	E90	EDI	98	59	DEP
0945	BA8210	British Airways	AT5	BLL	48	29	DEP
0950	BA1001	British Airways	318	JFK	32	19	DEP
0950	BA1004	British Airways	E90	GLA	98	59	DEP
0950	LH004	Luitnansa Riya Jalanda	E90		98	59	
0955	51002	Blue Islands	A15		48	29	DEP
1000	CK1002	CAC			90	39	
1000	L X/61	SWISS	C10	7RH	110	66	DEP
1030	AF004	Air France	AT5	PLIE	50	20	DEP
1050	AF001	Air France	F90	FDI	98	39	DEP
1100	BA8479	British Airways	E90	VCE	98	39	DEP
1115	BA1015	British Airways	E70	GLA	76	30	DEP
1135	AF5185	Air France	E90	AMS	98	39	DEP
1135	VE002	Alitalia	E90	LIN	98	39	DEP
1150	BA1033	British Airways	E90	EDI	98	39	DEP
1220	AF5233	Air France	AT5	ANR	50	20	DEP
1220	LG4594	Luxair	DH4	LUX	74	30	DEP
1235	AF2002	Air France	AT5	ORY	50	20	DEP
1240	AF5119	Air France	E90	DUB	98	39	DEP
1245	BA1039	British Airways	E70	ARN	76	30	DEP
1250	BA1025	British Airways	E90	FAO	98	39	DEP
1255	BA8765	British Airways	E90	ZRH	98	39	DEP
1300	AF5163	Air France	E90	EDI	98	39	DEP
1305	BA8453	British Airways	E90	AMS	98	39	DEP
1325	BA1006	British Airways	E90	BCN	98	39	DEP
1345	LX457	SWISS	C10	ZKH	110	44	DEP
1355	LX435	SWISS Dritting A	010	GVA	110	44	
1400	BA1012	British Airways			/6	30	
1/10	BA9700	British Airways	E90	GLA	90	39	
1420	BA8716	British Airways	E30		90	39	DEP
1445	BA8734	British Ainways	E70	FRA	76	30	DEP
1450	BA3286	British Ainways	E70	IOM	76	30	DEP
1450	LH026	Lufthansa	AT5	TXL	48	19	DEP
1455	AF5217	Air France	E90	LUX	98	39	DEP
1500	LX002	SWISS	C10	BSL	110	44	DEP
1505	AF5235	Air France	AT5	ANR	50	20	DEP
1510	AF5121	Air France	E90	DUB	98	39	DEP
1510	LH008	Lufthansa	DH4	MUC	74	30	DEP
1515	LH016	Lufthansa	AT5	DUS	74	30	DEP
1525	BA3296	British Airways	E70	ABZ	76	30	DEP
1525	AF5025	Air France	AT5	ORY	48	19	DEP
1530	BA8455	British Airways	E70	AMS	76	30	DEP
1535	BA1035	British Airways	E90	GLA	98	39	DEP
1550	BA8767	British Airways	E90	∠RH	98	39	DEP
1550	VE004	Alitalia	E90	LIN	98	39	DEP
1600	BA003	British Airways	318	JFK	32	13	DEP
1605	AF5193	AIF France	E90		98	39	
1610	LG4396	LuXall Britich Ainser			/4	30	
1620	AE5175	Air Franco			90	39	
1625	1 2000	SWISS	C10	7BH	110	20	
1635	AE5081	Air France	AT5	BTM	50	20	DEP
1645	LX437	SWISS	C10	GVA	110	66	DEP
1655	AF5209	Air France	AT5	NTE	50	30	DEP
1655	AF5165	Air France	E90	EDI	98	59	DEP
1700	BA8724	British Airways	E90	GLA	98	59	DEP

1700	LH935	Lufthansa	E90	FRA	98	59	DEP
1705	BA8459	British Airways	E70	AMS	76	46	DEP
1705	LH010	Lufthansa	DH4	MUC	74	44	DEP
1710	BA8712	British Airways	E90	EDI	98	59	DEP
1725	BA8738	British Airways	E90	FRA	98	59	DEP
1725	VE7053	Alitalia	E90	LIN	98	59	DEP
1730	LX465	SWISS	C10	ZRH	110	99	DEP
1735	AF5123	Air France	E90	DUB	98	88	DEP
1735	AF5083	Air France	AT5	RTM	50	45	DEP
1745	LH022	Lufthansa	AT5	HAM	48	43	DEP
1750	AF5195	Air France	E90	AMS	98	88	DEP
1800	BA8728	British Airways	E90	GLA	98	88	DEP
1800	BA8708	British Airways	E90	EDI	98	88	DEP
1805	AF5027	Air France	AT5	ORY	48	43	DEP
1815	LH937	Lufthansa	E90	FRA	98	88	DEP
1815	SK1004	SAS	DH4	CPH	74	67	DEP
1820	AF5237	Air France	AT5	ANR	50	45	DEP
1820	LX467	SWISS	C10	ZRH	110	99	DEP
1830	SX503	Skywork	DH4	BRN	74	67	DEP
1835	AF5097	Air France	AT5	EIN	50	45	DEP
1835	BA8769	British Airways	E70	ZRH	76	68	DEP
1835	LH028	Lufthansa	AT5	TXL	48	43	DEP
1840	BA8755	British Airways	E90	MAD	98	88	DEP
1840	LX447	SWISS	C10	GVA	110	99	DEP
1845	AF5197	Air France	E90	AMS	98	88	DEP
1845	AF5167	Air France	E90	EDI	98	88	DEP
1850	AF5085	Air France	AT5	RTM	50	45	DEP
1900	BA8457	British Airways	E70	AMS	76	68	DEP
1900	LH018	Lufthansa	DH4	DUS	74	67	DEP
1900	BA8212	British Airways	AT5	BLL	48	43	DEP
1905	BA8493	British Airways	E70	ARN	76	68	DEP
1905	SI719	Blue Islands	AT5	JER	48	43	DEP
1910	BA1008	British Airways	E90	BCN	98	88	DEP
1910	BA8736	British Airways	E70	FRA	76	68	DEP
1920	AF5219	Air France	AT5	LUX	50	45	DEP
1920	AF5125	Air France	E90	DUB	98	88	DEP
1920	BA1014	British Airways	E70	CPH	76	68	DEP
1925	AF5029	Air France	AT5	ORY	48	43	DEP
1930	BA3288	British Airways	E70	IOM	76	46	DEP
1930	BA3298	British Airways	E70	ABZ	76	46	DEP
1935	AE5087	Air France	AT5	BTM	50	30	DEP
1940	LH006	Lufthansa	E90	MUC	98	59	DEP
1940	LG4598	Luxair	DH4		74	44	DEP
1940	L X455	SWISS	C10	ZBH	110	66	DEP
1945	AF5199	Air France	E90	AMS	98	59	DEP
1950	BA8718	British Airways	E90	EDI	98	59	DEP
1950	I X487	SWISS	C10	BSI	110	66	DEP
2015	BA8730	British Airways	E90	GLA	98	59	DEP
2025	AF5177	Air France	AT5	DND	50	30	DEP
2030	AF5239	Air France	AT5	ANR	50	20	DEP
2035	AF5089	Air France	AT5	RTM	50	20	DEP
2050	BA8714	British Airways	E90	EDI	98	39	DEP
		Sou	rce: Yo	rk Aviatio	n		
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2023 - Without Development Timetable

Time	Flight No	Airline	Туре	To/From	Seats	Passengers	Arr/Dep
0705	AF5230	Air France	AT5	ANR	50	45	ARR
0705	AF5070	Air France	AT5	RTM	50	45	ARR
0710	LG4591	Luxair	DH4	LUX	/4	67	ARR
0715	LH920 RA002	Luitnansa Britich Airwove	E90		98	88	
0720	AF5180	Air France	E90	AMS	98	88	ARR
0725	BA8450	British Airways	E70	AMS	76	68	ARR
0725	LH001	Lufthansa	E90	MUC	98	88	ARR
0730	AF5212	Air France	AT5	LUX	50	45	ARR
0730	LH011	Lufthansa	DH4	DUS	74	67	ARR
0735	AF5018	Air France	AT5	ORY	50	45	ARR
0735	BA8/31	Air France	E/U		76	68	ARR
0745	RA1009	Rritish Airways	E70	CPH	76	40	ARR
0750	SX500	Skywork	DH4	BRN	74	67	ARR
0755	AF5072	Air France	AT5	RTM	50	45	ARR
0755	LX484	SWISS	C10	ZRH	110	99	ARR
0800	AF5232	Air France	AT5	ANR	50	45	ARR
0805	BA8701	British Airways	E90	EDI	98	88	ARR
0805	LX442	SWISS	C10	GVA	110	99	ARR
0810	AF5182	Air France	E90		98	88	
0815	R48721	Rritish Airways	E90	GLA	90	88	ARR
0820	LH023	Lufthansa	AT5	TXL	48	43	ARR
0820	BA3291	British Airways	E70	ABZ	76	68	ARR
0820	BA8760	British Airways	E70	ZRH	76	68	ARR
0820	OV001	Estonian Air	E90	TLL	112	101	ARR
0830	AF5158	Air France	E90	EDI	98	88	ARR
0830	VE7050	Alitalia	E90	LIN	98	88	ARR
0835	BA8711	British Airways	E90	EDI	98	88	ARR
0840	LX450	SWISS Blue lelende		BSL IED	110	99	ARR
0840	BA3281	British Ainwave	A15 E70	IOM	48	43	ARR
0855	DA3201	Air France			70	88	
0855	AF5118	Air France	E90	DUB	98	88	ARR
0900	AF5074	Air France	AT5	BTM	50	45	ARR
0900	BA8490	British Airways	E70	ARN	76	68	ARR
0905	AF5020	Air France	AT5	ORY	50	45	ARR
0905	BA8752	British Airways	E90	MAD	98	88	ARR
0905	LH019	Lufthansa	AT5	HAM	48	43	ARR
0910	BA8705	British Airways	E90	EDI	98	88	ARR
0910	BA8723	British Airways	E90	GLA	98	88	ARR
0915	BA8209	British Airways	A15	BLL	48	43	ARR
0915	LH003 BA1003	Rritich Ainwave	E90	BCN	98	88	ARR ARR
0920	LH928	Lufthansa	E90	FRA	98	88	ARR
0925	SI001	Blue Islands	AT5	GCI	48	43	ARR
0930	SK1001	SAS	DH4	CPH	74	44	ARR
0930	LX460	SWISS	C10	ZRH	110	66	ARR
1000	AF5170	Air France	AT5	DND	50	30	ARR
1005	BA004	British Airways	318	JFK	32	19	ARR
1010	BA8703	British Airways	E90	EDI	98	59	ARR
1015	BA8/39	British Airways	E90	GLA	98	59	ARR
1020	AF5120	Air France	E90		98	59	
1025	RA1032	Rritish Airways	E90	FRA	90	39	ARR
1000	BA8496	British Airways	E70	AMS	76	30	ARR
1045	BA8764	British Airways	E70	ZRH	76	30	ARR
1105	AF5186	Air France	E90	AMS	98	39	ARR
1105	VE001	Alitalia	E90	LIN	98	39	ARR
1110	AF5234	Air France	AT5	ANR	50	20	ARR
1125	AF5294	Air France	AT5	NTE	50	20	ARR
1130	BA8452	British Airways	E90	AMS	98	39	AKR
1150	LG4593	Luxaif			/4	30	
1205	AF2001	Air France	AT5	OBY	98	39	ARR
1205	BA8715	British Airwave	E70	EDI	76	20	ARR
1210	AF003	Air France	E90	DUB	98	39	ARR
1210	BA8733	British Airways	E70	FRA	76	30	ARR
1220	BA1024	British Airways	E90	MAD	98	39	ARR
1250	LX456	SWISS	C10	ZRH	110	44	ARR
1255	BA1005	British Airways	E90	GLA	98	39	ARR
1320	LX434	SWISS	C10	GVA	110	44	ARR
1330	BA0005	British Airways	E70	CPH	76	30	ARR
1330	BA3295	Air France			/6	30	
1400	AF002	Air France	E90		98	39	
1415	BA3285	British Airwave	E70	IOM	90 76	39	ARR
1420	LH025	Lufthansa	AT5	TXL	48	19	ARB
1425	BA8472	British Airways	E90	BCN	98	39	ARR
1430	LX001	SWISS	C10	BSL	110	44	ARR
1440	LH007	Lufthansa	DH4	MUC	74	30	ARR
1440	AF5280	Air France	E90	FLR	98	39	ARR
1445	LH015	Lufthansa	AT5	DUS	48	19	ARR
1455	AF5216	Air France	AT5	LUX	50	20	ARR
1500	BA1040	British Airways	E70	ARN	76	30	ARR
11000	AF3236	AIT FTANCE	A15	ANK	50	20	АКК

Period	Load Factor
Shoulder	60%
Peak	90%
Off-Peak	40%

Passengers at the Airport

	Arrivals	Departures	Total
08:00 - 09:00	1341	1325	2666
17:00 - 18:00	763	748	1510

Passengers on Surface Access								
	Arrivals	Departures	Total					
08:00 - 09:00	830	1508	2338					
17:00 - 18:00	1377	670	2047					

1520	BA8713	British Airways	F90	FDI	98	39	ARR
1520	VE003	Alitalia	EGU		98	30	ARR
1520	VL003	Alitalia	L30		30	39	Ann
1530	LG4595	Luxair	DH4	LUX	/4	30	ARR
1550	AF005	Air France	AT5	PUF	50	20	ARR
1550	BA8480	British Airways	E90	VCE	98	39	ARR
1555	LX007	SWISS	C10	ZRH	110	44	ARR
1605	AE5090	Air Franco	AT5	DTM	50	20	
1005	AF3060	All Flance	AIS		50	20	ADD
1615	LX436	50055	C10	GVA	110	44	ARR
1625	LH934	Lufthansa	E90	FRA	98	39	ARR
1625	BA8454	British Airways	E90	AMS	98	39	ARR
1630	AE5166	Air France	FOO	EDI	99	59	ABB
1000	AI 3100	Duitiala Ainuaua	E30		70	33	
1635	BA1016	British Airways	E/0	GLA	/6	46	AKK
1635	LH009	Lufthansa	DH4	MUC	74	44	ARR
1655	BA1002	British Airways	E90	AMS	98	59	ARR
1655	VE7052	Alitalia	E90	LIN	98	59	ARR
1700	1 2464	CIVICO	C10		110	66	
1700	LA404	300100	510		110	00	Ann
1700	AF008	Air France	E90	NCE	98	59	ARR
1705	AF5082	Air France	AT5	RTM	50	30	ARR
1715	LH021	Lufthansa	AT5	HAM	48	29	ARR
1700	AEE104	Air Franco	E00	AME	00	E0	
1720	AF3194	All Flance	E90	AIVIS	90		Ann
1730	BA8727	British Airways	E90	GLA	98	88	ARR
1730	BA8766	British Airways	E90	ZRH	98	88	ARR
1735	AE5238	Air France	AT5	ANR	50	45	ARR
1740	1 1026	Lufthanaa	E00	EDA	00	00	
1740	LH936	Luitnansa	E90	FRA	98	88	ARR
1745	SK1003	SAS	DH4	CPH	74	67	AKK
1750	AF5024	Air France	AT5	ORY	50	45	ARR
1750	LX466	SWISS	C10	ZRH	110	99	ARR
1800	SX502	Skywork		BBN	74	67	ABB
1000	3,502	SKYWOIK		BRIN	74	67	
1805	AF5096	Air France	A15	EIN	50	45	AKK
1805	BA8707	British Airways	E70	EDI	76	68	ARR
1805	LH027	Lufthansa	AT5	TXL	48	43	ARR
1810	BA8754	British Ainwows	EQO	MAD	00	00	ABB
1010	DH0/04	CINICO	290	IVIAD	98	88	
1810	LX446	SWISS	C10	GVA	110	99	AKR
1815	AF5196	Air France	E90	AMS	98	88	ARR
1815	AF5218	Air France	E90	LUX	98	88	ARR
1820	AE5084	Air France	AT5	BTM	50	45	ABB
1020	DA0400	Dittal A	A13		50	45	
1825	BA8492	British Airways	E/0	ARN	/6	68	ARR
1830	BA8456	British Airways	E70	AMS	76	68	ARR
1830	LH017	Lufthansa	DH4	DUS	74	67	ARR
1925	DA0211	Pritich Ainwove	AT5	DI I	10	42	ADD
1000	DAOZII	Dittisti Airways	ATS	DLL	40	43	ADD
1835	SI/18	Blue Islands	AI5	JER	48	43	ARR
1840	BA1007	British Airways	E90	BCN	98	88	ARR
1840	BA8735	British Airways	F70	FRA	76	68	ARR
1950	AE5026	Air Eranco			50	45	
1050	AT 3020	Air France	AIJ		50	40	Ann
1850	AF5126	Air France	E90	DUB	98	88	ARR
1850	BA1013	British Airways	E70	CPH	76	68	ARR
		Diffiori / di wayo	L/0	0111	70	00	
1855	AF5208	Air France	AT5	NTE	50	45	ARR
1855	AF5208	Air France	AT5	NTE	50 76	45	ARR
1855 1900	AF5208 BA3287	Air France British Airways	AT5 E70		50 76	45	ARR
1855 1900 1900	AF5208 BA3287 BA3297	Air France British Airways British Airways	AT5 E70 E70	NTE IOM ABZ	50 76 76	45 68 68	ARR ARR ARR
1855 1900 1900 1905	AF5208 BA3287 BA3297 AF5086	Air France British Airways British Airways Air France	AT5 E70 E70 AT5	NTE IOM ABZ RTM	50 76 76 50	45 68 68 45	ARR ARR ARR ARR ARR
1855 1900 1900 1905 1905	AF5208 BA3287 BA3297 AF5086 LH005	Air France British Airways British Airways Air France Lufthansa	AT5 E70 E70 AT5 E90	NTE IOM ABZ RTM MUC	76 50 76 76 50 98	45 68 68 45 88	ARR ARR ARR ARR ARR ARR
1855 1900 1900 1905 1905	AF5208 BA3287 BA3297 AF5086 LH005 LG4597	Air France British Airways British Airways Air France Lufthansa	AT5 E70 E70 AT5 E90	NTE IOM ABZ RTM MUC	76 50 76 50 98 74	45 68 68 45 88 88	ARR ARR ARR ARR ARR ARR
1855 1900 1900 1905 1905 1910	AF5208 BA3287 BA3297 AF5086 LH005 LG4597	Air France British Airways British Airways Air France Lufthansa Luxair	AT5 E70 E70 AT5 E90 DH4	NTE IOM ABZ RTM MUC LUX	76 50 76 50 98 74	45 68 68 45 88 67	ARR ARR ARR ARR ARR ARR ARR
1855 1900 1900 1905 1905 1910 1910	AF5208 BA3287 BA3297 AF5086 LH005 LG4597 LX486	Air France British Airways British Airways Air France Lufthansa Luxair SWISS	AT5 E70 E70 AT5 E90 DH4 C10	NTE IOM ABZ RTM MUC LUX BSL	76 50 76 50 98 74 110	45 68 68 45 88 67 99	ARR ARR ARR ARR ARR ARR ARR ARR ARR
1855 1900 1900 1905 1905 1910 1910 1915	AF5208 BA3287 BA3297 AF5086 LH005 LG4597 LX486 AF5198	Air France British Airways British Airways Air France Lufthansa Luxair SWISS Air France	AT5 E70 E70 AT5 E90 DH4 C10 E90	NTE IOM ABZ RTM MUC LUX BSL AMS	76 50 76 50 98 74 110 98	45 68 68 45 88 67 99 88	ARR ARR ARR ARR ARR ARR ARR ARR ARR
1855 1900 1900 1905 1905 1910 1910 1915 1920	AF5208 BA3287 BA3297 AF5086 LH005 LG4597 LX486 AF5198 BA8709	Air France British Airways British Airways Air France Lufthansa Luxair SWISS Air France British Airways	AT5 E70 E70 AT5 E90 DH4 C10 E90 E90	NTE IOM ABZ RTM MUC LUX BSL AMS EDI	76 50 76 50 98 74 110 98 98	45 68 68 45 88 67 99 99 88 88 88	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1855 1900 1900 1905 1905 1910 1910 1910 19	AF5208 BA3287 BA3297 AF5086 LH005 LG4597 LX486 AF5198 BA8709 LX454	Air France British Airways British Airways Air France Lufthansa Luxair SWISS Air France British Airways SWISS	AT5 E70 AT5 E90 DH4 C10 E90 E90 C10	NTE IOM ABZ RTM MUC LUX BSL AMS EDI ZRH	76 50 76 50 98 74 110 98 98 98	45 68 68 45 88 67 99 88 88 88 88 99	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1855 1900 1900 1905 1905 1910 1910 1910 19	AF5208 BA3287 BA3297 AF5086 LH005 LG4597 LX486 AF5198 BA8709 LX454 DA9768	Air France British Airways British Airways Air France Lufthansa Luxair SWISS Air France British Airways SWISS SWISS	AT5 E70 E70 AT5 E90 DH4 C10 E90 E90 C10	NTE IOM ABZ RTM MUC LUX BSL AMS EDI ZRH	76 50 76 50 98 74 110 98 98 98 110	45 68 68 45 88 67 99 88 88 88 88 50	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1855 1900 1900 1905 1905 1910 1910 1910 19	AF5208 BA3287 BA3297 AF5086 LH005 LG4597 LX486 AF5198 BA8709 LX454 BA8768 BA4768	Air France British Airways British Airways Air France Lufthansa Luxair SWISS Air France British Airways SWISS British Airways	AT5 E70 E70 AT5 E90 DH4 C10 E90 E90 C10 E90	NTE IOM ABZ RTM MUC LUX BSL AMS EDI ZRH ZRH	76 50 76 50 98 74 110 98 98 110 98	68 68 68 45 88 67 99 88 88 88 88 99 59	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
1855 1900 1905 1905 1910 1915 1920 1945 1950	AF5208 BA3287 BA3297 AF5086 LH005 LG4597 LX486 AF5198 BA8709 LX454 BA8768 BA1036	Air France British Airways British Airways Air France Luthansa Luxair SWISS Air France British Airways British Airways British Airways	AT5 E70 E70 AT5 E90 DH4 C10 E90 E90 C10 E90 E90 E90	ABZ ABZ RTM MUC LUX BSL AMS EDI ZRH ZRH GLA	76 50 76 50 98 74 110 98 98 110 98 98	45 68 68 68 88 88 67 99 88 88 88 88 88 99 99 59 59	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
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1855 1900 1900 1905 1905 1910 1910 1910 19	AF5208 BA3287 BA3297 AF5086 LH005 LG4597 LX486 AF5198 BA8709 LX454 BA8768 BA1036 BA8458 AF5176	Air France British Airways British Airways Air France Lutaira SWISS Air France British Airways British Airways British Airways British Airways British Airways	AT5 E70 E70 AT5 E90 DH4 C10 E90 C10 E90 C10 E90 E90 E90 E70 AT5	INTE IOM ABZ RTM MUC LUX BSL AMS EDI ZRH ZRH ZRH ZRH ZRH ZRH DND	76 50 76 50 98 74 110 98 98 110 98 98 98 76 50	45 68 68 68 88 67 99 99 88 88 88 99 99 59 59 59 59 59	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
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1855 1900 1900 1905 1905 1910 1910 1910 19	AF5208 BA3287 BA3297 AF5086 LH005 LG4597 LX486 AF5198 BA8709 LX454 BA8768 BA1036 BA8458 AF5176 AF5028 DA4600	Air France British Airways Air France Lufthansa Luxair SWISS Air France British Airways British Airways British Airways British Airways British Airways Air France Air France	AT5 E70 AT5 E90 DH4 C10 E90 E90 C10 E90 E90 E90 E70 AT5 E90	INTE IOM ABZ RTM MUC LUX BSL AMS EDI ZRH ZRH ZRH ZRH GLA AMS DND ORY	70 50 76 50 98 74 110 98 98 110 98 98 76 50 50	45 68 68 68 68 68 67 99 99 88 88 88 99 99 59 59 59 6 30 30 30	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
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1855 1900 1905 1905 1910 1910 1910 1910 1910 1920 1920 1945 1950 2000 2000 2005	AF5208 BA3287 BA3297 AF5086 LH005 LG4597 LX486 AF5198 BA8709 LX454 BA8768 BA1036 BA1036 BA1036 AF5176 AF5028 BA1026 AF5088	Air France British Airways British Airways Air France Lufthansa Luxair SWISS Air France British Airways British Airways British Airways British Airways British Airways British Airways Air France British Airways Air France British Airways Air France	AT5 E70 E70 AT5 E90 DH4 C10 E90 C10 E90 C10 E90 E90 E90 E70 AT5 E90 AT5	NTE IOM ABZ RTM MUC LUX BSL AMS EDI ZRH ZRH ZRH ZRH GLA AMS DND ORY FAO RTM	70 50 766 50 98 74 110 98 98 110 98 98 76 50 50 50 50 50 50 50 50 50 50	45 68 68 68 68 68 67 99 98 88 88 88 99 99 59 59 59 64 6 30 30 30 30	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR
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0815	BA1010	British Airways	E70	CPH	76	68	DEP
0820	SX501	Skywork	DH4	BRN	74	67	DEP
0825	AF5073	Air France	AT5	RTM	50	45	DEP
0825	LX451	SWISS	C10	ZRH	110	99	DEP
0830	AF5231	Air France	AT5	ANR	50	45	DEP
0835	BA8451	British Airways	E90	AMS	98	88	DEP
0835	LX443	SWISS	C10	GVA	110	99	DEP
0840	AF5187	Air France	E90	AMS	98	88	DEP
0845	AF5117	Air France	E90	DOR	98	88	DEP
0845	BA8722	British Airways	E90		98	88	DEP
0850	LHU24	Luitnansa British Ainwowa	A15 E70		48	43	DEP
0850	BA3292	British Airways	E70		76	68	
0850	DH0702	Estonian Air	E70 E90		112	101	
0000	AF007	Air France	E90	NCE	98	88	DEP
0900	VE7051	Alitalia	E90	LIN	98	88	DEP
0905	BA8471	British Airways	E90	BCN	98	88	DEP
0910	LX485	SWISS	C10	BSL	110	99	DEP
0910	SI713	Blue Islands	AT5	JER	48	43	DEP
0915	BA3282	British Airways	E70	IOM	76	68	DEP
0925	AF5183	Air France	E90	AMS	98	88	DEP
0930	AF5281	Air France	E90	FLR	98	59	DEP
0930	AF5021	Air France	AT5	ORY	48	29	DEP
0930	BA8491	British Airways	E70	ARN	76	46	DEP
0935	AF5075	Air France	AI5	RIM	50	30	DEP
0935	BA8753	British Airways	E90	MAD	98	59	DEP
0935	LH020	Rritick Aincour	A15		48	29	DEP
0940	BA8210	British Airways	£90 ∆T5	BU	98	59	DEP
0950	BA001	British Airways	318	JEK	40	29	DEP
0950	BA1004	British Airways	E90	GLA	98	59	DEP
0950	LH004	Lufthansa	E90	MUC	98	59	DEP
0955	SI002	Blue Islands	AT5	GCI	48	29	DEP
0955	LH929	Lufthansa	E90	FRA	98	59	DEP
1000	SK1002	SAS	DH4	CPH	74	44	DEP
1000	LX461	SWISS	C10	ZRH	110	66	DEP
1030	AF004	Air France	AT5	PUF	50	20	DEP
1050	AF001	Air France	E90	EDI	98	39	DEP
1100	BA8479	British Airways	E90	VCE	98	39	DEP
1115	BA1015	British Airways	E70	GLA	76	30	DEP
1135	AF5185	Air France	E90	AMS	98	39	DEP
1135	VE002	Alitalia	E90		98	39	DEP
1150	BA1033	Air France	E90		98	39	DEP
1220	AF5255	All Flance			50	20	
1220	AE2002	Air France			74 50	30	
1233	AF5119	Air France	E90	DUB	98	39	DEP
1245	BA1039	British Airways	E70	ARN	76	30	DEP
1250	BA1025	British Airways	E90	FAO	98	39	DEP
1255	BA8765	British Airways	E90	ZRH	98	39	DEP
1300	AF5163	Air France	E90	EDI	98	39	DEP
1305	BA8453	British Airways	E90	AMS	98	39	DEP
1325	BA1006	British Airways	E90	BCN	98	39	DEP
1345	LX457	SWISS	C10	ZRH	110	44	DEP
1355	LX435	SWISS	C10	GVA	110	44	DEP
1400	BA1012	British Airways	E70	CPH	76	30	DEP
1410	BA1001	British Airways	E90	AMS	98	39	DEP
1420	BA8/26	British Airways	E90	GLA	98	39	DEP
1420 144F	DA0/16	British Ainways	E70		/6	30	
1440	BA3286	British Airways	E70		70	30	DEP
1450	L H026	Lufthansa	AT5	TXI	10	30	DEP
1455	AF5217	Air France	E90	LUX	98	30	DEP
1500	LX002	SWISS	C10	BSL	110	44	DEP
1505	AF5235	Air France	AT5	ANR	50	20	DEP
1510	AF5121	Air France	E90	DUB	98	39	DEP
1510	LH008	Lufthansa	DH4	MUC	74	30	DEP
1515	LH016	Lufthansa	AT5	DUS	74	30	DEP
1525	BA3296	British Airways	E70	ABZ	76	30	DEP
1525	AF5025	Air France	AT5	ORY	48	19	DEP
1530	BA8455	British Airways	E70	AMS	76	30	DEP
1535	BA1035	British Airways	E90	GLA	98	39	DEP
1550	DA8/6/	Dritish Airways	E90		98	39	
1550	VE004	Aiitalia British Ainwave	⊑90 318		98	39	
1605	AE5193	Air France	F90	AMS	32	13	DEP
1605	LG4596	Luxair	DH4	LUX	74	30	DEP
1610	BA8706	British Airwavs	E90	EDI	98	39	DEP
1620	AF5175	Air France	AT5	DND	50	20	DEP
1625	LX008	SWISS	C10	ZRH	110	44	DEP
1635	AF5081	Air France	AT5	RTM	50	30	DEP
1645	LX437	SWISS	C10	GVA	110	66	DEP
1655	AF5209	Air France	AT5	NTE	50	30	DEP
1655	AF5165	Air France	E90	EDI	98	59	DEP
1/00	BA8724	British Airways	E90	GLA	98	59	DEP
1700	LH935	Luttnansa British Aincess	E90	r KA	98	59	DEP
1705	LH010	Luftbance		AIVIS MUC	76	46	DEP
1705	BA8712	British Ainwave	E90	FDI	74	44	DEP
1725	BA8738	British Airways	E90	FBA	90	59	DEP
1725	VE7053	Alitalia	E90	LIN	98	59	DEP

1730	LX465	SWISS	C10	ZRH	110	99	DEP
1735	AF5123	Air France	E90	DUB	98	88	DEP
1735	AF5083	Air France	AT5	RTM	50	45	DEP
1745	LH022	Lufthansa	AT5	HAM	48	43	DEP
1750	AF5195	Air France	E90	AMS	98	88	DEP
1800	BA8728	British Airways	E90	GLA	98	88	DEP
1800	BA8708	British Airways	E90	EDI	98	88	DEP
1805	AF5027	Air France	AT5	ORY	48	43	DEP
1815	LH937	Lufthansa	E90	FRA	98	88	DEP
1815	SK1004	SAS	DH4	CPH	74	67	DEP
1820	AF5237	Air France	AT5	ANR	50	45	DEP
1820	LX467	SWISS	C10	ZRH	110	99	DEP
1830	SX503	Skywork	DH4	BRN	74	67	DEP
1835	AF5097	Air France	AT5	EIN	50	45	DEP
1835	BA8769	British Airways	E70	ZRH	76	68	DEP
1835	LH028	Lufthansa	AT5	TXL	48	43	DEP
1840	BA8755	British Airways	E90	MAD	98	88	DEP
1840	LX447	SWISS	C10	GVA	110	99	DEP
1845	AF5197	Air France	E90	AMS	98	88	DEP
1845	AF5167	Air France	E90	EDI	98	88	DEP
1850	AF5085	Air France	AT5	RTM	50	45	DEP
1900	BA8457	British Airways	E70	AMS	76	68	DEP
1900	LH018	Lufthansa	DH4	DUS	74	67	DEP
1900	BA8212	British Airways	AT5	BLL	48	43	DEP
1905	BA8493	British Airways	E70	ARN	76	68	DEP
1905	SI719	Blue Islands	AT5	JER	48	43	DEP
1910	BA1008	British Airways	E90	BCN	98	88	DEP
1910	BA8736	British Airways	E70	FRA	76	68	DEP
1920	AF5219	Air France	AT5	LUX	50	45	DEP
1920	AF5125	Air France	E90	DUB	98	88	DEP
1920	BA1014	British Airways	E70	CPH	76	68	DEP
1925	AF5029	Air France	AT5	OBY	48	43	DEP
1930	BA3288	British Airways	E70	IOM	76	46	DEP
1930	BA3298	British Airways	E70	ABZ	76	46	DEP
1935	AF5087	Air France	AT5	RTM	50	30	DEP
1940	LH006	Lufthansa	E90	MUC	98	59	DEP
1940	LG4598	Luxair	DH4	LUX	74	44	DEP
1940	LX455	SWISS	C10	ZRH	110	66	DEP
1945	AF5199	Air France	E90	AMS	98	59	DEP
1950	BA8718	British Airways	E90	EDI	98	59	DEP
1950	LX487	SWISS	C10	BSL	110	66	DEP
2015	BA8730	British Airways	E90	GLA	98	59	DEP
2025	AF5177	Air France	AT5	DND	50	30	DEP
2030	AF5239	Air France	AT5	ANR	50	20	DEP
2035	AF5089	Air France	AT5	BTM	50	20	DEP
2050	BA8714	British Airways	E90	EDI	98	39	DEP
		Sou	rce: Yo	rk Aviation	1	00	

APPENDIX J

Trip Attraction



London City Airport: City Airport Development Programme

Trip Attraction and Assignment for Peak Hour Assessment

Introduction

- This note sets out the trip attraction associated with the change in passengers and staff at London City Airport, as part of the City Airport Development Programme. It also describes the methodology used to derive the trip assignment throughout the local highway network.
- York Aviation has supplied forecasts for passenger and staff numbers for the 2021 and 2023
 With and Without development scenarios. These have been used as the basis for the assessment of the surface access impacts.
- 3. Passenger forecasts are based on the predicted number of scheduled movements, the frequency of flights serving different routes, the seating capacity of the aircrafts and load factors. York Aviation have derived a daily profile of passengers arriving and departing at the Airport. This is based on a typical busy, rather than average day.
- 4. Staff forecasts are based on the number of scheduled movements, the change in floorspace and including the proposed hotel.
- 5. Vehicle trip attraction has been based on forecasts for passengers and staff numbers. This is discussed in detail below.

Existing Peak Period Trip Attraction (2012)

- 6. A Manual Classified Count (MCC) survey was carried out in November 2010 at the junction of Hartmann Road / Connaught Road for the weekday AM and PM peak periods. This junction currently provides the single point of access to the Airport. Therefore, the actual hourly vehicle trip attraction can be calculated by assuming that all vehicles entering Hartmann Road are arrivals to the Airport and all vehicles exiting Hartmann Road are departures from the Airport.
- 7. A growth factor derived from Tempro v6.2 was applied to the turning counts to establish the likely vehicle trip attraction in 2012.
- 8. An Automatic Traffic Counter (ATC) was installed on Hartmann Road in November 2012 to obtain the daily traffic flows. This was also used to provide a validation check on peak hour movements entering / exiting Hartmann Road.
- 9. Table 1 below shows the weekday AM and PM peak hour arrivals and departures from the Airport based on the 2010 MCC survey. Table 2 shows the arrivals and departures with the growth factor from Tempro v6.2 applied. Table 3 shows the average arrivals and departures taken from the 2012 ATC survey, in order to validate the flows.

Network Building, 97 Tottenham Court Road, London W1T 4TP Tel: 020 7580 7373 www.vectos.co.uk

Table 1: 2010 Peak Hour Arrivals/Departures

	Arrivals	Departures	Total
AM	329	389	718
PM	419	459	878

Table 1: 2012 Peak Hour Arrivals/Departures (Tempro growth factor applied)

	Arrivals	Departures	Total
AM	332	393	725
PM	423	463	886

Table 3: 2012 Average Peak Hour Arrivals/Departures (ATC)

	Arrivals	Departures	Total
AM	344	374	718
PM	415	465	880

10. The difference between results from the MCC and ATC is minimal. Therefore it is considered that the figures outlined in **Table 2** are robust and can be used as the basis for the 2012 weekday peak hour vehicle trip attraction.

Base Scenario

- 11. The existing trip attraction of London City Airport, as shown in Table 2 was deducted from total flows throughout the study network. The distribution of the existing Airport traffic was based on turning proportions at the key junctions. Remaining traffic (assumed to be non-airport related traffic) was subsequently adjusted to include growth factors (to 2021 and 2023 taken from Tempro v6.2), and to include committed developments. Further details on the committed developments used within the assessment are provided within the Transport Assessment.
- 12. Future airport traffic for the Without and With Development scenarios were subsequently added to the base flows. Details of the future trip attraction for both scenarios is provided below.

Future Peak Period Trip Attraction (2021/2023 With and Without Development Scenarios)

Total Passenger Trips

13. York Aviation has derived a daily profile of passengers arriving and departing on flights at the Airport. On average, passengers arrive 1 hour and 15 minutes prior to their flight departing from the airport if travelling on a scheduled flight, and when a flight arrives at the airport it

takes on average 15 minutes for passengers to depart from the airport. Therefore, those arriving on surface transport to the airport between 08:00-09:00, will be departing on flights between 09:15 and 10:15. Those departing the airport on surface transport between 08:00 and 09:00 will arrive on flights between 07:45 and 08:45.

14. The resultant peak hour passenger numbers accessing the Airport in 2021 and 2023 are shown in **Tables 4** and **5**.

	AM Peak (08:00 – 09:00)			PM Peak (17:00 – 18:00)		
	Arr's	Dep's	Total	Arr's	Dep's	Total
Without Development	808	1,528	2,336	1,377	670	2,047
With Development	1,072	1,717	2,789	1,743	711	2,454
Change	264	189	453	366	41	406

Table 4: 2021 with Peak Hour Passenger Numbers

Table 5:	2023	Peak	Hour	Passenger	Numbers
----------	------	------	------	-----------	---------

	AM Peak (08:00 – 09:00)			PM Peak (17:00 – 18:00)		
	Arr's	Dep's	Total	Arr's	Dep's	Total
Without Development	808	1,508	2,316	1,377	670	2,047
With Development	1,107	1,785	2,892	1,838	748	2,586
Change	299	277	576	461	78	539

Mode Split

15. **Table 6** below summarises the existing mode split of passengers at airport, and the future mode split once the impact of the travel plan and other sustainable measures are implemented. The mode split for both the With and Without Development scenarios are the same.

Table 6: Existing and Future	Passenger Mode Split
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Mode	2012	2021 / 2023
Private car parked at Airport	2 %	2 %
Dropped off by car	9 %	8 %
Private Hire Minicab	16 %	14 %
Black Taxi	14 %	12 %
DLR	55 %	60 %
Bus	0 %	1 %
Transfer / Other	4 %	3 %
TOTAL	100 %	100 %

Passenger Vehicle Trips

16. By applying the mode split for all vehicles from the 2021/2023 column of Table 6 (36%) to the passenger numbers in Table 4 and Table 5, it is possible to calculate the future peak hour
passenger vehicle trips associated with the proposed CADP. This is summarised in **Table 7** and **Table 8** below.

	AM Peak (08:00 – 09:00)			PM Peak (17:00 – 18:00)		
	Arr's	Dep's	Total	Arr's	Dep's	Total
Without Development	292	552	843	497	242	739
With Development	387	620	1,007	629	257	886
Change	95	68	163	132	15	147

Table 7: 2021 Peak Hour Passenger Vehicle Trips

Table 8: 2023 Peak Hour Passenger Vehicle Trips

	AM Peak (08:00 – 09:00)			PM Peak (17:00 – 18:00)		
	Arr's	Dep's	Total	Arr's	Dep's	Total
Without Development	292	545	836	497	242	739
With Development	400	644	1,044	663	270	933
Change	108	100	208	166	28	195

17. Surveys show that black cabs have an average occupancy of 1.32 passengers. Applying this factor to black cabs provides the total vehicle trips for the assessment. This is summarised in **Table 9** and **Table 10** below.

Table 9: 2021 Peak Hour Passenger Vehicles

	AM Peak (08:00 – 09:00)			PM Peak (17:00 – 18:00)		
	Arr's	Dep's	Total	Arr's	Dep's	Total
Without Development	268	507	775	457	222	679
With Development	356	570	926	578	236	814
Change	88	63	151	121	14	135

Table 10: 2023 Peak Hour Passenger Vehicles

	AM Peak (08:00 – 09:00)			PM Peak (17:00 – 18:00)		
	Arr's	Dep's	Total	Arr's	Dep's	Total
Without Development	268	501	769	457	222	679
With Development	368	592	960	610	248	858
Change	100	91	191	153	26	179

Staff Vehicle Trips

18. York Aviation has forecast the staff numbers for the different scenarios. This is detailed below in **Table 11**.

Table 11: Staff Forecast

Year	Daily (With Dev)	Daily (Without Dev)
2012	1,900	1,900
2021	2,790	2,220
2023	2,860	2,160

- 19. Of the total number of staff, 74% work shifts, with 26% working normal daytime hours (i.e. arrive/depart during the peak periods). This has been revealed from the Travel Plan monitoring survey.
- 20. Mode split for single occupancy vehicle is currently 44%, with 5% car sharing, 4% drop off, and 3% in minicabs. With the continued implementation of the Travel Plan and since staff car parking is not increasing pro rata the increase in staff, it is predicted that the mode share for car will fall to 38% single occupancy, 6% car share, 4% drop off and 2% in minicabs, by 2021/2023.
- 21. It is assumed that there will be an even distribution of staff over the peak period (i.e. 07:00-10:00 AM peak, and 16:00-19:00 PM Peak). This is based on data for the arrivals/departures at the staff car park. Of staff arriving during the 3 hour AM peak period, 36% (approximately one third) arrive between 08:00-09:00. In addition, during the 3 hour PM peak period, 36% depart between 17:00-18:00. Therefore, approximately 9% of staff will arrive during the AM Peak (08:00-09:00) and depart during the PM Peak (17:00-18:00).
- 22. Applying this methodology to the forecast numbers in Table 11; give the future year staff vehicle trips in **Tables 12** and **13**.

	AM Peak (08:00 – 09:00)			PM Peak (17:00 – 18:00)		
	Arr's	Dep's	Total	Arr's	Dep's	Total
Without Development	104	0	104	0	104	104
With Development	131	0	131	0	131	131
Change	27	0	27	0	27	27

Table 12: 2021 Peak Hour Staff Vehicle Trips

Table 13: 2023 Peak Hour Staff Vehicle Trips

	AM Peak (08:00 – 09:00)			PM Peak (17:00 – 18:00)		
	Arr's	Dep's	Total	Arr's	Dep's	Total
Without Development	101	0	101	0	101	101
With Development	134	0	134	0	134	134
Change	33	0	33	0	33	33

23. Table 12 shows that there will be an additional 27 staff vehicle trips in the with development scenario compared to the without development scenario in 2021, whilst Table 13 shows an additional 33 staff vehicles trips in the 2023 with development scenario.

Total Vehicle Trips

24. **Table 14** and **Table 15** show the total number of peak hour vehicle trips for 2021 and 2023 respectively.

Table 14: 2021 Total Vehicle Trips	
------------------------------------	--

	AM Peak (08:00 – 09:00)			PM Peak (17:00 – 18:00)		
	Arr's	Dep's	Total	Arr's	Dep's	Total
Without Development	372	507	879	457	326	783
With Development	487	570	1057	578	367	945
Change	115	63	178	121	41	162

Table 15: 2023 Total Vehicle Trips

	AM Peak (08:00 – 09:00)			PM Peak (17:00 – 18:00)		
	Arr's	Dep's	Total	Arr's	Dep's	Total
Without Development	369	501	870	457	323	780
With Development	502	592	1094	610	382	992
Change	133	91	224	153	59	212

Hotel Vehicle Trips

25. Peak hour trip attraction for the proposed hotel was derived from TRAVL. Vehicle trips were added to the total vehicle trips for the 2021/2023 with development scenarios as part of the assessment. This related to an additional 10 arrivals and 26 departures in the AM Peak, and 30 arrivals and 12 departures in the PM Peak.

Assignment

- 26. The distribution and assignment of vehicle trips is based on existing passenger and staff postcode data. Separate assignments have been derived for the 'With' and 'Without' Development scenarios. The assignment for the 'With Development' scenario assumes that a second vehicle access to the Airport will be provided from Woolwich Manor Way. Therefore vehicles travelling from the east will access the Airport via Woolwich Manor Way. The assignment for the 'Without Development' scenario assumes all vehicles will continue to use the existing access from Hartmann Road.
- 27. Postcode data for Staff is derived from a Staff Travel Survey which was undertaken in October 2011, whilst passenger data is taken from a Passenger Travel Survey undertaken in June 2012. Table 16 summarises the data for staff, whilst Table 17 summarises the data for passengers.

Table 16: Staff Postcode Data

Postcode	%
Any E Postcode	37%
Any SE Postcode	12%
Any RM Postcode	11%
Any IG Postcode	6%
Any CM Postcode	5%
Any SS Postcode	4%
Any DA Postcode	2%
Any N Postcode	1%
Other	16%
Not Stated	6%

Table 17: Passenger Postcode Data

Postcode	%
Westminster (WC/SW)	9%
The City (EC)	11%
Docklands (E14/E16)	10%
Other London	34%
Home County	18%
Essex	9%
Kent	9%

List of Surveys:

Address	Postcode	Survey Date
200 York Road	SW11 3SA	23/03/2000
Carlton Mitre Hampton Court Road Hampton Court	KT8 9BN	06/05/2009
196 High Street	E15 2NE	06/06/2006
30 Stockwell Street	SE10 9JN	27/01/1997
	Address 200 York Road Carlton Mitre Hampton Court Road Hampton Court 196 High Street 30 Stockwell Street	AddressPostcode200 York RoadSW11 3SACarlton MitreKT8 9BNHampton Court RoadHampton Court196 High StreetE15 2NE30 Stockwell StreetSE10 9JN

Number of sites considered 4

Counts By Mode:

Mode: Car Driver

Time Band	No of Sites	Trip Rate In	Trip Rate Out	Total Trip Rate	Predicted Trips In	Predicted Trips Out	Predicted Trips Total
07:00-07:30	4	0.00968	0.02258	0.03226	2.4	5.6	8.1
07:30-08:00	4	0.00968	0.04839	0.05806	2.4	12.1	14.5
08:00-08:30	4	0.02258	0.05806	0.08065	5.6	14.5	20.2
08:30-09:00	4	0.02258	0.02258	0.04516	5.6	5.6	11.3
09:00-09:30	4	0.03226	0.02581	0.05806	8.1	6.5	14.5
09:30-10:00	4	0.02581	0.01290	0.03871	6.5	3.2	9.7
10:00-10:30	4	0.01613	0.05161	0.06774	4.0	12.9	16.9
10:30-11:00	4	0.01290	0.02903	0.04194	3.2	7.3	10.5
11:00-11:30	4	0.01935	0.01613	0.03548	4.8	4.0	8.9
11:30-12:00	4	0.01613	0.01290	0.02903	4.0	3.2	7.3
12:00-12:30	4	0.02581	0.00968	0.03548	6.5	2.4	8.9
12:30-13:00	4	0.01613	0.01613	0.03226	4.0	4.0	8.1
13:00-13:30	4	0.01613	0.01290	0.02903	4.0	3.2	7.3
13:30-14:00	4	0.01290	0.00000	0.01290	3.2	0.0	3.2
14:00-14:30	4	0.01613	0.01290	0.02903	4.0	3.2	7.3
14:30-15:00	4	0.02258	0.03226	0.05484	5.6	8.1	13.7
15:00-15:30	4	0.01935	0.01290	0.03226	4.8	3.2	8.1
15:30-16:00	4	0.02258	0.01613	0.03871	5.6	4.0	9.7
16:00-16:30	4	0.02581	0.01290	0.03871	6.5	3.2	9.7
16:30-17:00	4	0.03871	0.00323	0.04194	9.7	0.8	10.5
17:00-17:30	4	0.05161	0.02903	0.08065	12.9	7.3	20.2
17:30-18:00	4	0.07097	0.01613	0.08710	17.7	4.0	21.8
18:00-18:30	4	0.03548	0.03548	0.07097	8.9	8.9	17.7
18:30-19:00	4	0.03226	0.00968	0.04194	8.1	2.4	10.5
19:00-19:30	4	0.03871	0.03226	0.07097	9.7	8.1	17.7
19:30-20:00	4	0.02258	0.01613	0.03871	5.6	4.0	9.7
20:00-20:30	4	0.01613	0.00968	0.02581	4.0	2.4	6.5
20:30-21:00	4	0.03548	0.02581	0.06129	8.9	6.5	15.3
21:00-21:30	4	0.01613	0.01290	0.02903	4.0	3.2	7.3
21:30-22:00	4	0.02581	0.02903	0.05484	6.5	7.3	13.7
22:00-22:30	4	0.01935	0.00968	0.02903	4.8	2.4	7.3
22:30-23:00	4	0.00968	0.00645	0.01613	2.4	1.6	4.0
23:00-23:30	4	0.00968	0.00000	0.00968	2.4	0.0	2.4
23:30-24:00	4	0.00323	0.00000	0.00323	0.8	0.0	0.8

Mode: Car Driver

Time Band No of Trip Rate Trip Sites In Rate Out	Total Trip Rate	Predicted Trips In	Predicted Trips Out	Predicted Trips Total	
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Peak Period For Car Driver

In	17:30-18:00	0.07
Out	08:00-08:30	0.06
Total	17:30-18:00	0.09

APPENDIX K

PERS Audit



London City Airport

City Airport Development Programme

Pedestrian Environment Review System (PERS) Audit

July 2013



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1 INTRODUCTION

- 1.1 Vectos is retained by London City Airport to advise on all surface access matters in relation to this planning application, known as the City Airport Development Programme (CADP).
- 1.2 The CADP chiefly comprises new passenger facilities and infrastructure that are required to enable the Airport to respond to forecast growth in passenger numbers and accommodate the new generation aircraft which are physically larger than the current fleet. Such improvements are broadly consistent with the long term plans which were described in London City Airport's 2006 Master Plan.
- 1.3 Vectos has undertaken a Pedestrian Environment Review System (PERS) assessment of the route between the Airport and local destinations to establish the quality of the environment for pedestrians. This report describes the execution and outcomes of the PERS assessment.
- 1.4 The PERS approach provides a qualitative and quantitative means of describing and valuing the urban realm and pedestrian environment. The objective of the PERS audit is:

To assess and grade the urban realm and pedestrian environment between the Airport and local destinations

- 1.5 The PERS assessment was undertaken on the 31st January 2013. The assessment area is shown in Figure 1.
- 1.6 The remainder of this report is set out as follows:
 - Overview of the PERS process, its use and capabilities
 - Summary of the PERS audit and scores for links and crossings surrounding London City Airport
 - Summary and conclusion.





2 OVERVIEW OF PERS SYSTEM

Pedestrian Environment Review System (PERS) Approach

- 2.1 PERS is a tool that measures the quality of the pedestrian environment through subjective review, and provides an objective measure to pedestrian quality. The auditing process allows for an overall review of pedestrian accessibility to and from the site.
- 2.2 Transport for London (TfL) has recognised PERS as an appropriate tool to fully evaluate the pedestrian environment. TfL has commissioned a version of PERS specifically for use within London to identify where pedestrian environments require improvements.
- 2.3 PERS is produced by the Transport Research Laboratory (TRL) and is described as:

"a systematic [computer programme] process designed to assess the quality of the pedestrian environment within a framework that promotes objectivity."

- 2.4 The review process allows for a wide range of information to be collected and presented in a number of analytical formats suitable for presentation. In principle, PERS reviews the environment from the end-user's perspective, with emphasis placed on the viewpoint of a vulnerable pedestrian.
- 2.5 Government guidance, Manual for Streets was published in 2007 and updated in September 2010. It supersedes Design Bulletin 32 and Places Streets and Movement, and recognises the wider role of streets in creating successful places. It emphasises the need for a better balance between pedestrians and vehicles in the design of lightly trafficked and residential streets.
- 2.6 The Mayor's Transport Strategy aims to create a connected, safe, convenient and attractive environment that encourages people to walk, making London one of the most walking friendly cities for pedestrians by 2015.
- 2.7 Provision for walking is essential to the delivery of a sustainable and integrated transport policy, with the overall result of environmental, social and economic health benefits.
- 2.8 When designing walking schemes and assessing the pedestrian environment, consideration needs to be given to the 5 'C's. The London Advisory Planning Committee first introduced the



5C's in 1997 as a basis on which new measures to encourage walking should be developed. The 5C's are:

- Connected routes should link origins and destinations;
- Convenient routes should facilitate the desired journey without undue deviation or difficulty;
- Conspicuous route design should allow the user to be seen by, and to see, other pedestrians and vehicles to promote personal security and road safety;
- Coherence routes should be continuous; and
- Convivial routes should be pleasant to use.
- 2.9 It is important to engineer routes that provide this experience. The 5C's reflect the fact that all transport users, regardless of mode, wish to make their journeys in the shortest, most convenient manner that is consistent with their personal and road safety and with a pleasant and comfortable journey experience.
- 2.10 PERS takes into consideration the 5C's above and works on a simple scoring method that breaks down various auditing criteria based on the pedestrian environment.

The Review Process

- 2.11 PERS as an audit tool consists of two parts:
 - Check sheet(s) with accompanying guidance for use in the field to score environments and note comments; and
 - Software that is used to store results and produce presentational outputs.
- 2.12 The approach that was adopted for the purposes of this study follows that recommended by TRL and summarised in **Table 2.1** below.

Stage	Tasks
1. Definition of Study Area	The study area is defined on a base map, with all the
	pedestrian environments identified.
2. On-Street Evaluation	The auditor reviews their assigned environment using
	the summary sheets and scoring guides. Scores and
	comments are noted down as later inputs to the PERS
	software.

Table 2.1: Approach to PERS



3. Data Input and Analysis	The scores and comments gathered are entered into
	the PERS software for each environment reviewed.
	The software assigns each environment and sub-
	criteria an overall score.
4. Display and Review of Outputs	The PERS software may be used to generate
	reports and charts to display all aspects of the
	auditing data gathered.

2.13 Using this approach, the PERS audit assesses the following parameters within the designated study area:

Environment Type	Brief Description
Links	Any footway, footpath or highway. They can be
	divided into sections if very long or reviewed in
	total.
Crossings	Any designated or undesignated crossing where
	a pedestrian route intersects with a highway.
	You may choose to include side road junction
	crossings or not, dependent on the audit taking
	place.
Routes	A way that links a trip origin and a trip destination, for example
	from a public transport interchange to a school. Routes may
	consist of any number of links and crossings (reviewed separately)
	but has some characteristics specific to itself.

Table 2.2: PERS Typology of the Pedestrian Environment

- 2.14 PERS can also be used to assess the pedestrian environment at public transport waiting areas, interchange spaces and public spaces.
- 2.15 This PERS audit looks specifically at the links and crossings in the vicinity of London City Airport which is accessed via Hartmann Road. The study area consists of the Hartmann Road Link, Albert Road/Connaught Road Link and the Airport Terminal to Newland Street Links. The study area also includes the proposed relocation of the Zebra crossing point outside the Airport Terminal, the signalled crossing on Hartmann Road at the junction with Connaught Road, and the crossing on Albert Road/Woolwich Manor Way at junction with Fishguard Way. Figure 1 shows the location of each link and crossing that has been assessed as part of this PERS audit.



- 2.16 Based on such best practice guidance in Manual for Streets and the 5 C's, PERS works on a simple scoring method that breaks down various parameters into a number of sub categories or 'characteristics'.
- 2.17 Each characteristic is scored on a range from +3 to -3, where +3 is the highest score and -3 the lowest. The PERS software weights the score for each characteristic depending on its deemed importance, to give a final overall score for each environment type.

Score	Condition
-3	Exceptionally poor example or practice
-2	Significant problems
-1	Minor problems
0	Neutral, neither good nor poor
+1	Slightly better than average
+2	Very good
+3	Exceptionally good example or practice

- 2.18 Although quantitative methods are used when reviewing pedestrian environments, within PERS much of the auditing is also qualitative, using the judgement of the auditor. This allows the 'feel' of an environment to be gauged and assessed. Surveyors trained and experienced in the use of PERS were used to ensure the pedestrian environment was specifically viewed from the perspective of the end user and those most vulnerable.
- 2.19 The key to the process relies on the reviewer to:

"recognise the implications of current conditions for a whole range of users and their needs, bearing in mind the need to give particular consideration to the needs of pedestrians with mobility impairment."

- 2.20 Once the scores have been inputted into the PERS software, the environment type and each individual characteristic are rated as either Red (poor quality) Amber (satisfactory quality) or Green (good quality) depending on their scores. The rating is also influenced by the observed importance of the pedestrian environment. If a route is deemed to have 'strategic importance' it is rated more harshly than if the route has 'local importance'.
- 2.21 Albert Road/Connaught Road and Hartmann Road form the main pedestrian access route to the Airport and were consequently deemed to have strategic importance. The quality of the



environment was measured taking this into account. The pedestrian link between the Airport Terminal and Newland Street was deemed to be neutral in terms of importance as a pedestrian link.



3 PERS AUDIT

Introduction

- 3.1 The PERS audit assessed the walking environment for the links and crossings in the vicinity of London City Airport. These are deemed to be the key environments used by visitors to the Airport, which also encompass a number of bus stops.
- 3.2 **Table 3.1** below provides a summary detailing the individual scores for the3 links assessed within the study area. **Table 3.2**, also below, summarises the results for the 3 crossings points.
- 3.3 **Figure 2** shows the geographic location and Red Amber, Green (RAG) rating of the links and crossings, and the PERS score each link/crossing achieved in the audit.
- 3.4 A detailed summary of each link and crossing follows the tables and figure.
- 3.5 As mentioned in the introduction, each characteristic is scored on a range from -3 to +3, where +3 is the highest score and -3 the lowest. The total score is obtained through the PERS software weighting different categories depending on their deemed importance to the pedestrian environment.

Route	Effective Width	Dropped Kerbs	Obstructions	Permeability	Legibility	Lighting	Tactile Information	Colour Contrast	Personal Security	Surface Quality	User Conflict	Environment Quality	Maintenance	Score	RAG
1. Hartmann Road	2	2	1	2	1	2	2	2	2	3	2	2	2	116	
2. Albert Road/Connaught Road	1	2	1	2	2	2	2	2	1	0	2	1	0	95	
3. Airport Terminal to Newland Street Link	2	2	1	2	1	2	2	2	1	1	1	1	1	98	

Table 3.1: PERS Scores – Links



Route	Crossing Provision	Deviation	Performance	Crossing Capacity	Delay	Legibility	Sensory Impaired	Dropped Kerbs	Obstructions	Surface Quality	Maintenance	Score	RAG
1. Airport Terminal Crossing (Proposed)	2	3	2	2	2	2	2	2	2	2	2	90	
2. Hartmann Road Crossing (Western End)	2	2	2	2	2	1	1	2	0	2	2	81	
3. Albert Road/Woolwich Manor Way Crossing	2	1	2	2	1	2	2	2	1	2	2	80	

Table 3.2: PERS Scores - Crossings





Link 1: Hartmann Road

- Good effective width which is reduced in places by the presence of obstacles
- Dropped kerbs and tactile paving are present at all crossings and crossfalls
- Excellent surface quality and maintenance along the link
- Barriers along parts of the link provide protection from traffic



- 3.6 Hartmann Road provides the main access to London City Airport for pedestrians and vehicles alike.
- 3.7 The effective width of footpaths along the link is adequate for the level of footfall in the area which was observed to be low. Road signs located along the footway reduce the effective width in some areas, but there is still sufficient width for pedestrian movement.
- 3.8 Pedestrian phases operate on each approach at the signalised junction of Hartmann Road and Connaught Road, creating safe crossing areas.
- 3.9 There is good use of colour contrasting on the crossings, giving pedestrians a sense of space. Dropped kerbs and tactile paving assist sensory impaired individuals. Dropped kerbs which are flush with the carriageway and tactile paving are present at all crossfalls along the link.
- 3.10 Lighting along the link is good and there is a steady flow of traffic along the route. This increases the sense of personal security for pedestrians during non-daylight hours.



3.11 Overall the quality of the surface along the link is very good; the surface is even and well maintained. Pedestrian guard railing along parts of the link provide protection from traffic.



Photo 1: Hartmann Road



Photo 2: Hartmann Road



Link 2: Albert Road/Connaught Road

- Good effective width
- Permeable and legible
- Maintenance could be improved in places



- 3.12 Albert Road/ Connaught Road runs parallel to the Airport and provides local access for pedestrians.
- 3.13 At the time of the audit Crossrail works were occurring along parts of Connaught Road/Albert Road. One lane of traffic was closed, with works expected to be complete in late 2014.
- 3.14 Permeability along the link is good despite moderate traffic volumes. This is aided by the signalised pedestrian crossing at the junction with Long Drive. Legibility is also good, assisted by the built form, and a number of signs.
- 3.15 Dropped kerbs and tactile paving at crossfalls along the link assist sensory impaired individuals.
- 3.16 The link benefits from a good level of street lighting and a high level of foot fall which adds to natural surveillance. Both contribute to a sense of personal security.



3.17 The quality of the surface could be improved in places with water lodging at some locations. In areas, the surface is uneven, and some cracking is present, particularly on the western section. Minor maintenance work here would significantly improve the quality of the link.



Photo 3: Connaught Road



Photo 4: Albert Road



Link 3: Airport Terminal to Newland Street

- Good effective width
- Dropped kerbs and tactile paving are proposed for relocated crossing
- Surface quality and maintenance could be improved on Newland Street



- 3.18 This is the pedestrian link between the main entrance to the Airport Terminal and bus stops on Newland Street. The link will be made up of a relocated zebra on Hartmann Road and a pedestrian ramp which links Hartmann Road and Newland Street.
- 3.19 The effective width along the link is adequate for the level of footfall in the area.
- 3.20 The proposed relocation of the pedestrian crossing on Hartmann Road links the pedestrian ramp to the airport terminal (see Crossing 1). The proposed crossing makes good use of colour contrasting giving pedestrians a sense of space. Dropped kerbs and tactile paving will assist sensory impaired individuals.
- 3.21 Lighting along the link is good and adds to the sense of personal security for pedestrians during non-daylight hours. Natural surveillance in the form of footfall also adds to a sense of personal security in the area. Pedestrian barriers on Hartmann road provide protection from traffic. Overall the quality of the surface along the link is good but could be improved on Newland Street. In areas, the surface is uneven, and some cracking is present. Minor maintenance work here would significantly improve the quality of the link.





Photo 5: Airport Terminal to Newland Street Link



Photo 6: Airport Terminal to Newland Street Link



Crossing 1: Airport Terminal Proposed Crossing

- The proposed Zebra Crossing will be suitable for the location given the high volumes of footfall and slow moving traffic
- Proposals include use of tactile paving and colour contrast
- Crossing will be clearly legible
- Proposed crossing is much closer to the desire line compared to existing crossing



- 3.22 Crossing 1 is a relocated zebra crossing which will link to Airport Terminal to Hartmann Road.
- 3.23 The proposed crossing is much closer to the desire line for pedestrians when compared with the existing situation. The proposed crossing links the pedestrian ramp from Newland Street to the Airport Terminal.
- 3.24 The provision of a Zebra Crossing is considered suitable for the volume and speed of traffic on Hartmann Road. Hartmann Road has a high level of traffic but speeds are low and visibility is good, allowing pedestrians who are waiting to cross to be clearly identified.
- 3.25 The capacity on the proposed crossings is considered adequate for the level of footfall.
- 3.26 Tactile paving will be provided both sides of the crossing to assist visually impaired individuals. Tactile paving will have a contrasting colour to the rest of the link and kerbs will be flush with the carriageway.



Crossing 2: Hartmann Road (Western End) – Signalised Crossing

- The provision of a signalised pedestrian junction is suitable for the location given the level of traffic and the proximity of the junction with Connaught Road
- Surface quality is generally good
- Tactile paving and dropped kerbs assists visually impaired pedestrians



- 3.27 Crossing 2 is a signalised pedestrian crossing and is on Hartmann Road close to the junction with Connaught Road.
- 3.28 The crossing is suitable for the level of traffic on Hartmann Road, with adequate capacity for the level of foot fall. Visibility is good at the junction, allowing pedestrians who are waiting to cross to be clearly identified.
- 3.29 Pedestrian barriers are provided at either side of the crossing. This increases the level of protection for pedestrians.
- 3.30 Tactile paving is used well on both sides of the crossing to assist visually impaired individuals. Tactile paving has a contrasting colour to the rest of the link and kerbs are flush with the carriageway.
- 3.31 The quality of the surface is good and markings are clear.





Photo 7: Hartmann Road Crossing



Photo 8: Hartmann Road Crossing



Crossing 3: Albert Road/Woolwich Manor Way – Signalised Crossing

- The provision of a signalised crossing is suitable for the context given the high levels of traffic and width of the road.
- A central reservation and pedestrian barriers increases the level of safety for pedestrians
- Tactile paving and dropped kerbs assist visually impaired pedestrians



- 3.32 Crossing 3 is a signalised pedestrian crossing located on Albert Road at the junction with Fishguard Way.
- 3.33 The capacity on the crossing is adequate for the level of foot fall.
- 3.34 The crossing has a central reservation to allow the crossing to be undertaken in two phases.This increases the level of safety for the pedestrian.
- 3.35 Tactile paving is present on both sides of the crossing. Kerbs are flush with the carriageway and the quality of the surface is good.





Photo 9: Albert Road/Woolwich Manor Way Crossing



Photo 10: Albert Road/ Woolwich Manor Way Crossing



4 SUMMARY

- 4.1 Vectos is retained by London City Airport to provide advice on all surface access matters in relation to this planning application, known as the City Airport Development Programme (CADP).
- 4.2 Vectos has undertaken a Pedestrian Environment Review System (PERS) assessment of the route between the Airport and local destinations to establish the quality of the environment for pedestrians.
- 4.3 The existing environment for pedestrians is good along Hartmann Road and Albert Road/Connaught Road. The effective width of the footways is good and tactile paving is provided on all crossing points.
- 4.4 Crossings on the links are considered suitable for their context and observed to work well.
- 4.5 There are a number of improvements or "quick wins" that could be implemented in order to improve the environment for pedestrians in the area, such as:
 - Minor maintenance could significantly improve the pedestrian environment on Albert Road/Connaught Road and on Newland Street
- 4.6 In light of the above, it can be concluded that there is currently a good pedestrian environment in the vicinity of the airport.

APPENDIX L

Traffic Survey Data

DATE : WEDNESDAY 14TH NOVEMBER 2012

LOCATION : CONNAUGHT BRIDGE / CONNAUGHT ROAD ROUNDABOUT, CITY AIRPORT, LONDON E16

F

	FRO		INAUG	iht Bf	RIDGE	NORTH
	LEFT	тос	ONNA	UGHT	RD (A	RPORT)
	CAR	HGV	BUS	MCY	PCY	TOT
0630-0645	58	3	1	2		64
0645-0700	51	3	2		1	57
0700-0715	52	2	3	1	1	59
0715-0730	45	2	1		3	51
0730-0745	45		1	1	1	48
0745-0800	39		1		2	42
0800-0815	52	3	3		2	60
0815-0830	41	2	2		1	46
0830-0845	42	1	2	1	1	47
0845-0900	63	4	1		1	69
0900-0915	48		3		3	54
0915-0930	42	2	2			46
0630-0930	578	22	22	5	16	643
0630-0730	206	10	7	3	5	231
0645-0745	193	7	7	2	6	215
0700-0800	181	4	6	2	7	200
0715-0815	181	5	6	1	8	201
0730-0830	177	5	7	1	6	196
0745-0845	174	6	8	1	6	195
0800-0900	198	10	8	1	5	222
0815-0915	194	7	8	1	6	216
0830-0930	195	7	8	1	5	216

AHEAD SOUTHEOUND TOTENTIONCARHGVBUSMCYPCYTOT9011114107121192114314112415713418211551151341321331331150131202114313291114310115121241011511696351696810328157229151814866019656251162012259451364011259051455110157850653173570474551525374004614245333142032378	FRO	N CON	NAUG	HT BR	IDGE	NORTH
CAR HGV BUS MCY PCY TOT 90 11 1 1 4 107 121 19 2 1 143 141 12 4 157 134 18 2 1 155 115 13 4 132 132 133 13 3 1 150 131 20 2 2 153 132 9 1 1 143 110 11 1 2 124 101 15 1 1 4 101 15 1 117 53 132 9 1 1 2 124 101 15 1 1 2 124 101 15 1 1 5 69 63 5 1 1 2 594 513 6	AH	EAD S	OUTH	BOUN	D TO A	A1020
9011114107121192114314112415713418211551151341321331331150131202115313291114311011121241011511117571116963568132815722291518157256535554866019651364011259051155110157850653173570474551525374004614245333142032378	CAR	HGV	BUS	MCY	PCY	тот
121 19 2 1 143 141 12 4 157 134 18 2 1 155 115 13 4 132 133 13 3 1 132 133 13 3 1 150 131 20 2 2 153 132 9 1 1 143 110 11 1 2 124 101 15 1 2 124 101 15 1 1 69 63 5 $ 68$ 1328 157 2 22 9 1518 1328 157 2 22 9 1518 486 60 1 9 6 562 511 62 0 12 2 587 523 56 0 13 2 594 513 64 0 11 2 590 511 55 1 10 1 578 506 53 1 7 3 570 474 55 1 55 2 537 400 46 1 4 2 453 331 42 0 3 2 378	90	11	1	1	4	107
141 12 4 157 134 18 2 1 155 115 13 4 132 133 13 3 1 150 131 20 2 2 153 132 9 1 1 143 110 11 1 2 124 101 15 1 1 143 110 11 1 2 124 101 15 1 1 69 63 5 5 68 69 63 5 5 68 68 1328 157 2 22 9 1518 486 60 1 9 6 562 511 62 0 12 2 587 523 56 0 13 2 590 511 55 1 10 1 578 506 53 1 7 3 570	121	19		2	1	143
134 18 2 1 155 115 13 4 132 133 13 3 1 150 131 20 2 1 153 132 9 1 1 2 143 110 11 1 2 124 101 15 1 1 69 63 5 7 11 69 63 5 7 69 68 1328 157 2 22 9 1518 486 60 1 9 6 562 511 62 0 12 2 587 523 56 0 13 2 594 513 64 0 11 2 590 511 55 1 10 1 578 506 53 1 7 3 570 474 55 1 55 2 537 400 46 </th <th>141</th> <td>12</td> <td></td> <td>4</td> <td></td> <td>157</td>	141	12		4		157
115134132133133115013120215313291114311011121241011511117571116963568132815722291581572525613640122513640112514551101575173536401425453173506531575774004614243842032	134	18		2	1	155
133 13 3 1 150 131 20 2 153 132 9 1 1 143 110 11 1 2 124 101 15 1 2 124 101 15 1 2 69 63 5 69 68 1328 157 2 22 9 1518 1328 157 2 22 9 1518 1328 157 2 22 9 1518 1328 157 2 22 9 1518 1328 157 2 22 9 1518 1432 0 12 2 59 518 151 62 0 12 2 594 513 64 0 11 2 590 511 55 1 10 1 578 506 53 1 7 3 570 474 </th <th>115</th> <td>13</td> <td></td> <td>4</td> <td></td> <td>132</td>	115	13		4		132
131 20 2 153 132 9 1 1 143 110 11 1 2 124 101 15 1 117 117 57 11 1 2 69 63 5 - 69 63 5 - 68 1328 157 2 22 9 1518 1328 157 2 22 9 1518 1328 157 2 22 9 1518 143 157 2 22 9 1518 1328 157 2 22 9 1518 1328 157 2 151 65 65 511 62 0 12 2 594 513 64 0 11 2 590 511 55 1 10 1 578 506 53 1 7 3 570 474 55 <th>133</th> <td>13</td> <td></td> <td>3</td> <td>1</td> <td>150</td>	133	13		3	1	150
132 9 1 1 143 110 11 1 2 124 101 15 1 117 57 11 1 1 69 63 5 68 68 1328 157 2 22 9 1518 1328 157 2 22 9 1518 1328 157 2 22 9 1518 1328 157 2 22 9 1518 1328 157 2 22 9 1518 1328 157 2 22 9 1518 486 60 1 9 6 562 511 62 0 12 2 594 513 64 0 11 2 590 511 55 1 10 1 578 506 53 1 7 3 570 474 55 1 5 2 537	131	20		2		153
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	132	9	1	1		143
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	110	11		1	2	124
57 11 1 69 63 5 68 1328 157 2 22 9 1518 1328 157 2 22 9 1518 1328 157 2 22 9 1518 436 60 1 9 6 562 511 62 0 12 2 587 523 56 0 13 2 590 513 64 0 11 2 590 511 55 1 10 1 578 506 53 1 7 3 570 474 55 1 55 2 537 400 46 1 4 2 453 331 42 0 3 2 378	101	15		1		117
63 5 68 1328 157 2 22 9 1518 1328 157 2 22 9 1518 486 60 1 9 6 562 511 62 0 12 2 587 523 56 0 13 2 599 513 64 0 11 2 590 511 55 1 10 1 578 506 53 1 77 3 570 474 55 1 55 2 537 400 46 1 4 2 453 331 42 0 3 2 378	57	11		1		69
1328 157 2 22 9 1518 486 60 1 9 6 562 511 62 0 12 2 587 523 56 0 13 2 594 513 64 0 11 2 590 511 55 1 100 1 578 506 53 1 7 3 570 474 55 1 55 2 537 400 46 1 4 2 453 331 42 0 3 2 378	63	5				68
486 60 1 9 6 562 511 62 0 12 2 587 523 56 0 13 2 594 513 64 0 11 2 590 511 55 1 100 1 578 506 53 1 7 3 570 474 55 1 55 2 537 400 46 1 4 2 453 331 42 0 3 2 378	1328	157	2	22	9	1518
486 60 1 9 6 562 511 62 0 12 2 587 523 56 0 13 2 594 513 64 0 11 2 590 511 55 1 10 1 578 506 53 1 7 3 570 474 55 1 55 2 537 400 46 1 4 2 453 331 42 0 3 2 378						
51162012258752356013259451364011259051155110157850653173570474551525374004614245333142032378	486	60	1	9	6	562
523 56 0 13 2 594 513 64 0 11 2 590 511 55 1 10 1 578 506 53 1 7 3 570 474 55 1 5 2 537 400 46 1 4 2 453 331 42 0 3 2 378	511	62	0	12	2	587
513 64 0 11 2 590 511 55 1 10 1 578 506 53 1 7 3 570 474 55 1 5 2 537 400 46 1 4 2 453 331 42 0 3 2 378	523	56	0	13	2	594
511 55 1 10 1 578 506 53 1 7 3 570 474 55 1 5 2 537 400 46 1 4 2 453 331 42 0 3 2 378	513	64	0	11	2	590
506 53 1 7 3 570 474 55 1 5 2 537 400 46 1 4 2 453 331 42 0 3 2 378	511	55	1	10	1	578
474 55 1 5 2 537 400 46 1 4 2 453 331 42 0 3 2 378	506	53	1	7	3	570
4004614245333142032378	474	55	1	5	2	537
331 42 0 3 2 378	400	46	1	4	2	453
	331	42	0	3	2	378

FRO		INAUG U T	HT BE		NORTH
CAR	HGV	BUS	MCY	PCY	тот
1					1
0					0
0					0
0					0
0					0
0					0
0					0
0					0
0					0
0					0
0					0
1					1
2	0	0	0	0	2
1	0	0	0	0	1
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
1	0	0	0	0	1

	FRO	M CON	INAUG	iht Bf	RIDGE	NORTH	FRO	M CON	NAUG	HT BR	IDGE	NORTH
	LEFT	TOC	ONNA	UGHT	RD (A	RPORT)	AH	EAD S	OUTH	BOUN	D ТО А	1020
	CAR	HGV	BUS	MCY	PCY	TOT	CAR	HGV	BUS	MCY	PCY	TOT
1600-1615	27	2	2		2	33	67	7	1			75
1615-1630	30	1	3		3	37	60	7	1	1	1	70
1630-1645	31	2	2		2	37	48	4		1		53
1645-1700	35			2	3	40	68	6		1		75
1700-1715	41	1	3	1	1	47	80	4		4		88
1715-1730	42		1		2	45	58	5		1		64
1730-1745	32		2	1		35	67	4		3		74
1745-1800	40	1		1	1	43	64	4		1		69
1800-1815	37	1	2		1	41	82	1		2		85
1815-1830	32		1			33	61	2				63
1830-1845	32	2	1		2	37	61	2		1		64
1845-1900	31		3			34	57	2				59
1600-1900	410	10	20	5	17	462	773	48	2	15	1	839
1600-1700	123	5	7	2	10	147	243	24	2	3	1	273
1615-1715	137	4	8	3	9	161	256	21	1	7	1	286
1630-1730	149	3	6	3	8	169	254	19	0	7	0	280
1645-1745	150	1	6	4	6	167	273	19	0	9	0	301
1700-1800	155	2	6	3	4	170	269	17	0	9	0	295
1715-1815	151	2	5	2	4	164	271	14	0	7	0	292
1730-1830	141	2	5	2	2	152	274	11	0	6	0	291
1745-1845	141	4	4	1	4	154	268	9	0	4	0	281
1800-1900	132	3	7	0	3	145	261	7	0	3	0	271

FRO	M CON	INAUG U T	HT BE	RIDGE	NORTH
CAR	HGV	BUS	MCY	PCY	тот
0					0
0					0
0					0
0					0
0					0
0					0
0					0
0					0
0					0
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0	0	0	0	0	0
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0	0	0	0	0	0
0	0	0	0	0	0

(The west arm of the roundabout is a locked gated access)

DATE : WEDNESDAY 14TH NOVEMBER 2012

LOCATION : CONNAUGHT BRIDGE / CONNAUGHT ROAD ROUNDABOUT, CITY AIRPORT, LONDON E16

F

	FR	ом со	ONNAL	IGHT I	ROAD	EAST
	LE	FT TO	CONN	AUGH		
	CAR	HGV	802	NCY	PCY	101
0630-0645	54	3	1			58
0645-0700	66	1	2			69
0700-0715	69	1	1			71
0715-0730	65		1			66
0730-0745	78		2			80
0745-0800	78		2			80
0800-0815	64		1			65
0815-0830	66		1			67
0830-0845	42	1	2			45
0845-0900	61	1				62
0900-0915	55		2			57
0915-0930	45	1	1	2		49
0630-0930	743	8	16	2	0	769
0630-0730	254	5	5	0	0	264
0645-0745	278	2	6	0	0	286
0700-0800	290	1	6	0	0	297
0715-0815	285	0	6	0	0	291
0730-0830	286	0	6	0	0	292
0745-0845	250	1	6	0	0	257
0800-0900	233	2	4	0	0	239
0815-0915	224	2	5	0	0	231
0830-0930	203	3	5	2	0	213

FR	ом со	DNNAU	ight i	ROAD	EAST
LE	FT TO	CONN	IAUGH	T BRI	DGE N
CAR	HGV	BUS	MCY	PCY	TOT
21					21
23	1	2			26
27		2			29
31		1			32
24		2			26
26	1	2			29
18	1	1		1	21
18		1			19
70		2		1	73
25	1	3			29
15		1			16
14		1			15
312	4	18	0	2	336
102	1	5	0	0	108
105	1	7	0	0	113
108	1	7	0	0	116
99	2	6	0	1	108
86	2	6	0	1	95
132	2	6	0	2	142
131	2	7	0	2	142
128	1	7	0	1	137
124	1	7	0	1	133

FR	ом сс	NNAU U T	JGHT I TURNS	ROAD	EAST
CAR	HGV	BUS	MCY	PCY	TOT
0					0
0					0
0					0
0					0
0					0
0					0
0					0
0					0
0					0
0					0
0					0
0					0
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0	0	0	0	0	0
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0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0

	FR	ом сс	NNAU	IGHT F	ROAD	EAST		FR	ом со	ONNAU	ight f	ROAD	EAST
	LE	FT TO	CONN	AUGH	t Brii	DGE S		LE	т то	CONN	IAUGH	t Brid	DGE N
	CAR	HGV	BUS	MCY	PCY	TOT		CAR	HGV	BUS	MCY	PCY	TOT
1600-1615	60	1	1			62		18		1	1		20
1615-1630	58		1			59		39		2			41
1630-1645	72	2	1			75		26		1			27
1645-1700	68		1			69		25		2			27
1700-1715	56		1	1		58		32		2		1	35
1715-1730	71		1			72		26		1			27
1730-1745	61		1			62		31	1	2			34
1745-1800	78		1	1		80		19		2			21
1800-1815	85		2	1	1	89		39		1		1	41
1815-1830	78		1			79		28		1			29
1830-1845	58		2		1	61		19		2			21
1845-1900	53	3	1			58		31	1	2		1	35
1600-1900	798	6	14	4	2	824		333	2	19	1	3	358
1600-1700	258	3	4	0	0	265		108	0	6	1	0	115
1615-1715	254	2	4	1	0	261		122	0	7	0	1	130
1630-1730	267	2	4	1	0	274		109	0	6	0	1	116
1645-1745	256	0	4	1	0	261		114	1	7	0	1	123
1700-1800	266	0	4	2	0	272		108	1	7	0	1	117
1715-1815	295	0	5	2	1	303		115	1	6	0	1	123
1730-1830	302	0	5	2	1	310		117	1	6	0	1	125
1745-1845	299	0	6	2	2	309		105	0	6	0	1	112
1800-1900	274	3	6	2	2	287		117	1	6	0	2	126
	(The	west	arm o	of the	round	dabout i	s a	locke	ed gat	ed ac	cess)		

FR	ом со	DNNA	JGHT	ROAD	EAST
		U	FURNS	6	
CAR	HGV	BUS	MCY	PCY	TOT
0					0
0					0
0					0
0					0
0					0
0					0
0					0
0					0
0					0
0					0
0					0
0					0
0	0	0	0	0	0
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0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0

DATE : WEDNESDAY 14TH NOVEMBER 2012

LOCATION : CONNAUGHT BRIDGE / CONNAUGHT ROAD ROUNDABOUT, CITY AIRPORT, LONDON E16

	FRO	M CON	NAUG	ht Br	IDGE	SOUTH
		AHE	AD NO	ORTHB	OUND)
	CAR	HGV	BUS	MCY	PCY	тот
0630-0645	17	10	4	3	_	34
0645-0700	32	14	1			47
0700-0715	29	10	1			40
0715-0730	29	10	2	1	1	43
0730-0745	45	10		1		56
0745-0800	61	9	1			71
0800-0815	47	16	1			64
0815-0830	56	11	1		1	69
0830-0845	79	11		1		91
0845-0900	84	11	3			98
0900-0915	57	13	2	2	1	75
0915-0930	69	19	1	2	1	92
0630-0930	605	144	17	10	4	780
0630-0730	107	44	8	4	1	164
0645-0745	135	44	4	2	1	186
0700-0800	164	39	4	2	1	210
0715-0815	182	45	4	2	1	234
0730-0830	209	46	3	1	1	260
0745-0845	243	47	3	1	1	295
0800-0900	266	49	5	1	1	322
0815-0915	276	46	6	3	2	333
0830-0930	289	54	6	5	2	356

SOUTH	IDGE	ht Br	NAUG	I CON	FROM
RPORT)	RD (A	UGHT	ONNA	тос	RIGHT
TOT	PCY	MCY	BUS	HGV	CAR
102			3		99
105		1	4	2	98
75		2	4	5	64
74		1	5	2	66
111		1	3	6	101
82			4	3	75
59	1		3	1	54
68	1		5	4	58
90			2	2	86
94			4	1	89
77		1	4	2	70
68			3	6	59
1005	2	6	44	34	919
356	0	4	16	9	327
365	0	5	16	15	329
342	0	4	16	16	306
326	1	2	15	12	296
320	2	1	15	14	288
299	2	0	14	10	273
311	2	0	14	8	287
329	1	1	15	9	303
000	<u> </u>	- 1	10	44	204

FROM CONNAUGHT BRIDGE SOUTH												
		U	URNS	;								
CAR	HGV	BUS	MCY	PCY	TOT							
0					0							
0					0							
0					0							
0					0							
1					1							
0	1				1							
0					0							
0					0							
0					0							
0					0							
1					1							
1					1							
3	1	0	0	0	4							
0	0	0	0	0	0							
1	0	0	0	0	1							
1	1	0	0	0	2							
1	1	0	0	0	2							
1	1	0	0	0	2							
0	1	0	0	0	1							
0	0	0	0	0	0							
1	0	0	0	0	1							
2	0	0	0	0	2							

	FROM	I CON	NAUG	ht Br	IDGE	SOUTH	FRO	M CON	NAUG	ht Br	IDGE :	SOUTH
		AHE	AD NO	ORTHB	OUND		RIGHT	тос	ONNA	UGHT	RD (A	RPORT)
	CAR	HGV	BUS	MCY	PCY	TOT	CAR	HGV	BUS	MCY	PCY	TOT
1600-1615	130	13	2	1	1	147	107	9	4	1	1	122
1615-1630	143	8	1	3		155	94	5	5	1		105
1630-1645	166	18		2	2	188	102	1	3	1		107
1645-1700	127	10	1	4		142	96	6	5	2	1	110
1700-1715	171	8	1	3	2	185	97	8	4	1	1	111
1715-1730	143	10	2	3	1	159	126	4	5			135
1730-1745	150	6		3	4	163	93	4	3	1		101
1745-1800	156	5	1	8	1	171	115	1	5	3		124
1800-1815	137	1		3	2	143	94	3	5	2		104
1815-1830	114	6	1			121	107	3	3	2	2	117
1830-1845	94	3	1	1	2	101	82	1	4	3	1	91
1845-1900	104	1				105	82		2	1		85
1600-1900	1635 89 10		31	15	1780	1195	45	48	18	6	1312	
1600-1700	566	49	4	10	3	632	399	21	17	5	2	444
1615-1715	607	44	3	12	4	670	389	20	17	5	2	433
1630-1730	607	46	4	12	5	674	421	19	17	4	2	463
1645-1745	591	34	4	13	7	649	412	22	17	4	2	457
1700-1800	620	29	4	17	8	678	431	17	17	5	1	471
1715-1815	586	22	3	17	8	636	428	12	18	6	0	464
1730-1830	557	18	2	14	7	598	409	11	16	8	2	446
1745-1845	501	15	3	12	5	536	398	8	17	10	3	436
1800-1900	449	11	2	4	4	470	365	7	14	8	3	397

FROM CONNAUGHT BRIDGE SOUTH											
CAR	HGV	BUS	MCY	PCY	тот						
0					0						
0					0						
0					0						
0					0						
0					0						
0					0						
0					0						
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(The west arm of the roundabout is a locked gated access)

DATE : 14th NOVEMBER 2010

DAY : TUESDAY

LOCATION : CITY AIRPORT, EAST LONDON

	MOVEMENT					MOVEMENT						MOVEMENT 2						MOVEMENT										
				1	Щ	Ш					2	Щ	ш					3	щи	ш					4	щ	Ш	
	GHT	AXI	₽Ğ	SUS	YCL	YCL	DTAL	GHT	AXI	Ъ	SUS	YCL	YCL	DTAL	GHT	AXI	β	SUS	, CL	Y C F	DTAL	GHT	AXI	٩d	sus	YCL	YCL	DTAL
		μ	1	ш	мо	РС	Ĕ	Ē	μ	1	ш	MO	РС	Ę		F	1	ш	О М С	5	Ĕ		н	Ţ	ш	о М	РС	Ĕ
0500-0515	1	1	0	1	0	0	3	11	3	0	2	0	0	16	4	0	0	2	0	0	6	42	11	0	1	0	0	54
0530-0545	5 1	0	0	2	0	0	3	29 59	5 6	1	2	0	0	37 69	3	1	0	2	0	0	о 7	73	9 18	2	2	2	1	85 101
0545-0600	0	1	0	2	0	0	3	57	9	1	1	0	0	68	5	4	0	2	0	0	11	99	14	0	2	0	0	115
0600-0615	6	0	0	1	0	0	7	76	10	0	2	0	0	88	9	3	0	3	0	0	15	78	19	0	2	1	0	100
0615-0630	3	0	0	1	0	0	4	68 95	4 15	1	2	0	0	75 113	8	2	0	1	0	0	11	93	12	0	2	0	0	107
0645-0700	4	2	Ő	2	0	0	8	82	18	0	2	Ő	0	102	5	1	Ő	2	0	0	8	93	32	2	2	0	Ő	129
0700-0715	4	0	0	4	0	0	8	71	40	1	2	0	0	114	5	0	0	4	0	0	9	90	34	0	2	0	0	126
0715-0730 0730-0745	8	0	0	2	0	0	10	94 89	47 58	0	3	0	0	144 150	8	3	0	2	0	0	13 7	89 91	46 47	1	2	0	0	137 143
0745-0800	2	0	0	3	0	0	5	70	20	1	2	0	0	93	5	2	0	4	0	0	11	92	40	0	2	1	0	135
0800-0815	2	0	0	2	0	0	4	38	44 45	1	3	0	0	86	4	0	0	2	0	0	6	42	42	0	4	0	0	88 75
0830-0845	4	0	0	2 4	0	0	8	39	45 49	2	2 4	0	0	93	4	0	0	2	0	0	6	30	28	0	2	0	0	75 65
0845-0900	5	0	1	3	0	0	9	37	58	2	2	0	0	99	4	1	0	2	0	0	7	46	26	1	3	0	0	76
0900-0915	1	0	0	3	0	0	4	30	46	1	3	0	0	80 74	1	0	0	2	0	0	3	28	43	2	3	0	0	76 50
0930-0945	3	0	0	3	0	0	6	18	42 48	1	2	0	0	69	1	1	1	1	0	0	4	24	26	1	2	0	0	55
0945-1000	4	0	0	2	0	0	6	13	30	0	3	1	1	48	4	0	0	4	0	0	8	18	32	2	5	0	0	57
1000-1015	1	0	0	2	0	0	3	22	18 32	1	2 1	0	1	44 51	3	0	0	1	0	0	4	12	21	0	4 2	0	0	37 61
1030-1045	8	1	0	4 3	0	0	12	23	33 28	1	4	0	0	56	3	0	0	4	0	0	5	21	21	2	3	0	0	45
1045-1100	4	0	0	2	0	0	6	41	63	0	3	0	0	107	2	0	0	3	0	0	5	37	24	1	3	1	0	66
1100-1115 1115-1130	3 ⊿	1	0	3	0	0	7	32	47 22	2	2	0	0	83 56	4	1	0	3	0	0	8 5	35	30 29	0	3	0	0	68 69
1130-1145	4	0	0	3	0	0	7	42	55	0	2	0	0	99	4	0	0	3	0	0	7	46	35	1	2	0	0	84
1145-1200	5	0	0	2	0	0	7	44	33	1	3	0	0	81	3	0	0	3	0	0	6	35	38	0	2	0	0	75
1200-1215 1215-1230	4	0	0	1	0	0	5	28	18 19	1	2	1	0	50 56	5	0	0	1	0	0	6 12	35	34 29	1	3	1	0	74 64
1230-1245	3	1	0	4	0	0	8	25	23	3	3	0	1	55	2	0	0	2	0	0	4	44	24	1	3	0	1	73
1245-1300	6	0	0	2	0	0	8	39	22	1	2	0	0	64	3	0	0	2	0	0	5	43	18	2	2	1	0	66
1300-1315 1315-1330	1	0	0	3	0	0	45	39	18 17	2	3	0	1 0	63 56	3	0	0	1	0	0	4 8	44	23	2	4 3	0	1	74 65
1330-1345	2	0	0	2	0	0	4	46	18	1	3	0	0	68	6	0	0	3	0	0	9	47	19	3	2	1	0	72
1345-1400	2	0	0	3	1	0	6	45	18	1	4	0	1	69	2	1	0	4	0	0	7	23	24	1	2	0	0	50
1400-1415	1	0	1	3	0	0	5 6	43	15 15	3	4 1	0	0	65 56	3	1	1	1	0	0	8	26	25 28	0	4	0	0	55 68
1430-1445	4	0	0	4	0	0	8	35	24	1	3	0	0	63	2	0	0	1	0	0	3	31	30	0	3	0	0	64
1445-1500	4	0	0	2	0	0	6	36	14	2	3	0	1	56	5	0	0	3	0	0	8	39	24	1	3	0	1	68
1515-1530	4	2	0	2	0	0	о 5	34	29	2	4 3	1	0	58 64	4	0	0	2	0	0	6	31	20 28	0	4	1	0	64
1530-1545	3	0	0	4	0	0	7	20	18	0	4	1	0	43	2	0	0	3	0	0	5	18	25	1	3	0	0	47
1545-1600	2	2	0	2	0	0	6	35	37	0	3	0	0	75	1	1	0	2	0	0	4	31	38	1	3	0	0	73
1615-1630	э 4	2	0	2 4	0	0	10	32 42	33 25	2	3	0	0	69 72	7	0	0	5 2	0	0	9	31	38 44	2	3	0	0	74 86
1630-1645	2	0	0	2	0	0	4	42	41	1	2	0	1	87	1	0	0	3	0	0	4	36	46	1	3	1	0	87
1645-1700 1700-1715	3	0	0	3	0	0	6	47	47	1	2	1	1	99 103	3	0	0	2	0	0	4	31	43	0	3	0	0	77
1715-1730	2	1	0	1	0	0	4	47	54	1	3	0	0	105	3	0	0	5	0	0	8	40 50	63	0	2 1	0	1	115
1730-1745	6	2	0	2	0	0	10	47	68	1	3	0	0	119	4	1	0	3	0	0	8	39	56	2	2	0	0	99
1/45-1800 1800-1815	4 a	0	0	5	0	0	9	44	51 49	1	3	0	0	99 94	2	0	0	2	0	0	4	45	28	1	3 २	1	0	78 01
1815-1830	2	0	1	3	0	0	6	42	44 44	1	3	0	1	91	6	0	0	2	0	0	8	30	33	0	4	0	0	67
1830-1845	5	0	0	3	0	0	8	55	41	1	3	0	0	100	12	0	0	4	0	0	16	50	22	4	2	0	0	78
1845-1900 1900-1915	4	0	0	3	0	0	6	52	46	0	2	1	0	100 99	6	0	0	2	0	0	7 8	48	35	2	3	1	0	89 74
1915-1930	1	0	0	2	0	0	3	53	35	1	4	0	0	93	1	1	1	4	0	0	7	36	29	Ő	3	0	Ő	68
1930-1945	3	0	0	3	1	0	7	39	36	0	3	0	0	78	4	1	1	2	0	0	8	35	16	1	2	1	0	55
1945-2000 2000-2015	4	0	0	3	0	0	1	58	40 29	1	2	0	0	90	0	0	0	2	0	0	2	16	19	1	2	0	0	33
2015-2030	1	0	0	2	0	0	3	59	40	1	5	1	0	106	4	0	0	3	0	0	7	19	31	1	3	0	0	54
2030-2045	2	0	0	4	0	0	6	30	6	0	2	1	0	39 42	0	0	0	1	0	0	1	32	28	0	3	1	1	65
2045-2100	∠ 3	0	0	4	0	0	4	5 51	23	0	2	0	2	43 78	2	0	0	4	0	0	3	6	11	2	2	0	1	39 21
2115-2130	4	0	0	2	0	0	6	13	6	1	3	1	0	24	1	0	0	3	0	0	4	19	7	0	2	0	0	28
2130-2145	4	1	0	1	0	0	6	40	9	0	1	0	0	50 42	1	0	0	3	0	0	4	6	2	0	2	0	0	10
2200-2215	1	0	0	3	0	0	3	36 9	э 6	0	2	0	0	43 17	0	0	0	∠ 2	0	0	3 2	8	2	1	2	0	2	12
2215-2230	1	1	0	1	0	0	3	3	1	1	2	0	0	7	0	0	0	2	0	0	2	3	0	0	3	0	1	7
2230-2245	0	0	0	1	0	0	1	5	1	0	2	0	0	8	1	0	0	1	0	0	2	2	0	0	2	0	0	4
0500-2300	225	22	3	<u>_</u> 180	2	1	433	∠ 2925	2075	54	<u>_</u> 185	15	12	.⊶ 5266	257	36	4	183	0	0	480	2829	∠ 9 1928	59	188	17	14	, 5035
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DATE : 14th NOVEMBER 2010

DAY : TUESDAY

LOCATION : CITY AIRPORT, EAST LONDON

I I		MOVEMENT						MOVEMENT								
I I					5								6			
ID IC IC<		누	×	>	S	CLE	CLE	AL		누	×	>	S	CLE	CLE	AL
b b		ГIG	ΤA	Ĥ	BU	ľÇ	ςΥ	101		ГIG	ΤA	Ĥ	BU	₹	ςY	тот
0515.0530 9 0 1 0 0 0 10 6 0 1 18 8 2 0 1 0 0 0 1 1 0630.0645 32 0 1 0 0 1 1 1 1 3 0 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 0 1 1 0 0 0 1 1 0 0 0 0 0 0 <td>0500-0515</td> <td>4</td> <td>0</td> <td>0</td> <td>0</td> <td>2</td> <td>0</td> <td>4</td> <td></td> <td>11</td> <td>2</td> <td>0</td> <td>1</td> <td>2</td> <td>0</td> <td>14</td>	0500-0515	4	0	0	0	2	0	4		11	2	0	1	2	0	14
0830-0545 10 1 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 1 06640-0760 32 0 5 0 2 0 1 0 0 1 <td>0515-0530</td> <td>9</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>10</td> <td></td> <td>7</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>7</td>	0515-0530	9	0	1	0	0	0	10		7	0	0	0	0	0	7
0040-061 17 0 0 0 1 18 2 0 1 0 0 1 0060-0615 18 0 0 0 1 0 1 0 0 0 1 00645-0700 32 0 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 1	0530-0545	10	1	0	1	1	0	13		6	0	0	0	0	0	6
Condition Condition <thcondition< th=""> <thcondition< th=""> <thc< td=""><td>0545-0600</td><td>17</td><td>1</td><td>0</td><td>0</td><td>0</td><td>1</td><td>18</td><td></td><td>8 14</td><td>2</td><td>0</td><td>1</td><td>0</td><td>0</td><td>11</td></thc<></thcondition<></thcondition<>	0545-0600	17	1	0	0	0	1	18		8 14	2	0	1	0	0	11
0630-0645 02 0 5 0 2 0 34 7 0 2 0 0 0 1 0760-7715 23 1 1 1 1 1 1 1 1 1 1 1 1 0	0615-0630	18	0	0	0	1	0	19		3	0	1	0	0	0	4
0646-0700 32 0 1 0 0 1 34 0716-0715 38 0 1 1 1 1 34 0716-0730 38 0 1 1 0 0 34 0730-0745 38 0 1 1 0 0 34 0730-0745 32 1 1 0 0 34 0730-0745 32 1 1 0 0 0 35 0800-0815 42 1 0 0 0 72 36 0 0 0 33 0830-0945 28 0 1 0 0 0 33 0 0 0 33 090-0945 27 0 2 0 1 0 1 0 1 0 30 1 0 1 0 1 0 1 0 1 1 1	0630-0645	32	0	5	0	2	0	39		7	0	2	0	0	0	9
0.00-0715 C/30-0745 C/30-0745 C/32-0745 C/32-0745 <thc 32-0745<="" th=""> <thc 32-0745<="" th=""> <thc< td=""><td>0645-0700</td><td>32</td><td>0</td><td>1</td><td>0</td><td>0</td><td>1</td><td>34</td><td></td><td>9</td><td>0</td><td>2</td><td>0</td><td>0</td><td>0</td><td>11</td></thc<></thc></thc>	0645-0700	32	0	1	0	0	1	34		9	0	2	0	0	0	11
0730-0745 32 1 0 0 0 34 15 0 0 0 35 0745-0800 32 0 0 0 35 33 0 2 0 0 0 35 0815-0830 44 1 2 0 1 2 0 0 0 0 0 0 2 0	0700-0715	29 38	0	1	1	0	0	34 40		17	1	0	0	0	0	12
0745-0800 32 0 3 0 2 0 0 33 0 2 0 0 0 33 0 2 0 <t< td=""><td>0730-0745</td><td>32</td><td>1</td><td>1</td><td>0</td><td>Ő</td><td>0</td><td>34</td><td></td><td>15</td><td>0</td><td>1</td><td>0</td><td>Ő</td><td>0</td><td>16</td></t<>	0730-0745	32	1	1	0	Ő	0	34		15	0	1	0	Ő	0	16
0300-0815 44 1 2 0	0745-0800	32	0	3	0	0	0	35		33	0	2	0	0	0	35
Barbonson Frage	0800-0815	44 42	1	2	0	1	2	50 44		21	0	0	0	0	0	21
0845-0900 69 0 2 1 0 0 72 0900-0915 42 0 2 0 1 1 45 0	0830-0845	69	1	1	0	0	0	71		28	0	0	0	0	0	28
0900-0915 42 0 2 0 1 1 46 45 0 3 0 0 0 48 0915-0930 28 0 1 0 0 0 22 0 1 0 0 0 33 0945-1000 27 0 2 0 1 0 30 15 0 0 0 30 1015-1030 27 1 5 0 0 0 30 16 0 5 0 0 22 1104-1115 25 0 1 0 0 30 1 0 1 30 0 0 0 31 1100-1115 25 0 1 0 0 36 18 0 1 0 0 142 111145-120 1 0 1 0 0 36 1 0 0 20 0 0 0 21 1 0 0 0 1 1 0 0 <t< td=""><td>0845-0900</td><td>69</td><td>0</td><td>2</td><td>1</td><td>0</td><td>0</td><td>72</td><td></td><td>36</td><td>0</td><td>1</td><td>0</td><td>0</td><td>0</td><td>37</td></t<>	0845-0900	69	0	2	1	0	0	72		36	0	1	0	0	0	37
0910-19430 45 0 5 0 <td< td=""><td>0900-0915</td><td>42</td><td>0</td><td>2</td><td>0</td><td>1</td><td>1</td><td>46</td><td></td><td>45</td><td>0</td><td>3</td><td>0</td><td>0</td><td>0</td><td>48</td></td<>	0900-0915	42	0	2	0	1	1	46		45	0	3	0	0	0	48
0045-1000 31 0 2 0 0 33 1000-1015 27 0 2 0 1 0 0 0 30 1015-1030 27 0 2 0 1 0 0 0 1 1030-1045 27 1 5 0 0 0 33 16 0 5 0 0 0 22 0 1 0 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 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0915-0930	45 28	0	5 1	0	0	0	50 29		26	0	4	0	0	0	30 23
1000-1015 27 0 2 0 1 0 30 15 0 1 0 30 1015-1030 27 0 3 0 0 0 30 122 0 3 0 0 0 32 1045-1100 23 0 2 0 1 1 27 0 3 0 0 0 34 1110-1115 25 0 1 0 0 0 36 39 0 0 0 34 1140-1215 34 0 4 0 0 0 36 19 0 0 0 34 1200-1215 34 0 4 0 0 0 39 0 0 0 22 1 0 0 23 0 0 0 21 1 1 0 0 22 1 0 0 22 1 0 0 22 1 0 0 0 1 1 1<0	0945-1000	31	0	2	Ő	Ő	0	33		29	0	0	1	0	0	30
1015-1030 27 0 3 0 0 0 30 16 0 5 0 0 2 1045-1100 23 0 2 0 1 1 27 1 5 0 0 0 33 16 0 5 0 0 0 24 1100-1115 25 0 1 0 0 0 36 18 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 0 30 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 1 0 1 1 0 0 0 1 0 1 0 1 0 1 0 1 0 1 1 1 0 0 0 1 1 1 1 0 0 0 </td <td>1000-1015</td> <td>27</td> <td>0</td> <td>2</td> <td>0</td> <td>1</td> <td>0</td> <td>30</td> <td></td> <td>15</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>16</td>	1000-1015	27	0	2	0	1	0	30		15	0	1	0	0	0	16
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1015-1030	27	0	3	0	0	0	30		22	0	3	0	0	0	25
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1045-11045	23	0	2	0	1	1	27		30	2	1	0	1	0	34
1115-1130 29 0 1 0 0 0 30 18 0 1 0 0 0 31 1110-1145 12 0 1 0 1 0 14 31 0 2 0 0 0 33 120-1215 34 0 4 0 0 0 38 28 0 1 0 0 0 21 1215-1230 39 0 0 0 0 0 20 23 0 3 0 0 0 21 1300-1315 35 0 0 0 0 0 1 0 0 30 22 1 2 0 0 0 22 1 0 0 22 1 0 0 22 1 0 0 22 1 0 0 0 22 1 0 0 22 1 0 0 0 22 1 0 0 22 1 0 0 </td <td>1100-1115</td> <td>25</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>26</td> <td></td> <td>39</td> <td>0</td> <td>3</td> <td>0</td> <td>0</td> <td>0</td> <td>42</td>	1100-1115	25	0	1	0	0	0	26		39	0	3	0	0	0	42
	1115-1130	29	0	1	0	0	0	30		18	0	1	0	0	0	19
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1145-1200	34 12	1	0	1	1	0	30 14		29 31	0	5	0	0	0	34
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$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1215-1230	22	0	3	0	0	1	26		19	0	2	0	0	0	21
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1230-1245	19	0	1	0	0	0	20		23	0	3	0	0	0	26
1315-1330 18 0 1 0 1 0 20 20 0 2 0 0 22 1335-1345 41 0 2 0 0 0 43 22 1 2 0 0 0 22 1 2 1 0 0 0 22 1 2 1 0 0 0 22 1 2 1 0 0 0 22 1 2 0 0 0 22 1 2 0 0 0 22 1 0 0 0 0 22 1 0 0 0 0 22 1 0 0 0 22 1 0 0 0 0 0 12 11 0 0 0 0 0 11 1 0 0 0 13 13 0 0 0 0 11 1 0 0 0 11 1 11 0 10 11 11 <t< td=""><td>1300-1315</td><td>35</td><td>0</td><td>0</td><td>1</td><td>0</td><td>0</td><td>36</td><td></td><td>29</td><td>1</td><td>1</td><td>1</td><td>0</td><td>0</td><td>32</td></t<>	1300-1315	35	0	0	1	0	0	36		29	1	1	1	0	0	32
1330-1345 41 0 2 0 0 0 43 1345-1400 17 1 1 0 0 0 19 1400-1415 21 0 2 0 0 0 22 1430-1445 26 0 2 0 0 0 23 1445-1500 22 0 1 1 0 0 23 1430-1445 26 0 2 0 0 0 23 1445-1500 22 0 1 0 0 23 11 0 0 0 0 12 1530-1545 44 1 1 0 0 0 33 0 <t< td=""><td>1315-1330</td><td>18</td><td>0</td><td>1</td><td>0</td><td>1</td><td>0</td><td>20</td><td></td><td>20</td><td>0</td><td>2</td><td>0</td><td>0</td><td>0</td><td>22</td></t<>	1315-1330	18	0	1	0	1	0	20		20	0	2	0	0	0	22
1345-1400 1/1 1 0 0 0 19 19 0 3 0 0 0 28 1410-1415 21 0 2 0 0 0 25 0 3 0 0 0 28 1445-1500 22 0 0 1 1 27 0 0 0 0 27 1430-1445 26 0 2 0 0 0 28 11 0	1330-1345	41	0	2	0	0	0	43		22	1	2	1	0	0	26
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1445-1500 22 0 0 1 0 0 23 25 1 0 <t< td=""><td>1430-1445</td><td>26</td><td>0</td><td>2</td><td>0</td><td>0</td><td>0</td><td>28</td><td></td><td>11</td><td>0</td><td>1</td><td>0</td><td>0</td><td>0</td><td>12</td></t<>	1430-1445	26	0	2	0	0	0	28		11	0	1	0	0	0	12
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1445-1500 1500-1515	22 47	0	0	1	0	0	23		25	1	<u>0</u> 3	0	0	0	26
1530-1545 44 1 1 1 0 0 47 34 2 1 0 0 0 34 1545-1600 32 1 1 0 0 0 34 33 0 1 0 0 0 33 1 0 0 0 34 1600-1615 33 0 0 0 0 1 45 39 1 0 0 0 47 1630-1645 26 0 1 0 0 0 27 50 1 0 0 1 1 1 2 0 1 0 44 1700-1715 27 0 0 0 1 41 52 0 3 0 2 2 53 1730-1745 39 0 1 0 0 37 26 0 0 1 0 2 2 59 3 3 2 2 59 3 1 0 0 3 44	1515-1530	45	1	3	1	0	0	50		48	0	0	0	2	0	50
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1530-1545	44	1	1	1	0	0	47		34	2	1	0	0	0	37
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1545-1600	32	1	1	0	0	0	34		33	0	1	0	0	0	34
1630-1645 26 0 1 0 0 0 27 50 1 0 0 1 1 53 1645-1700 35 0 0 0 0 0 35 37 1 2 0 1 0 41 1700-1715 27 0 0 0 0 0 38 49 0 1 0 1 2 1715-1730 38 0 0 0 0 38 49 0 1 0 1 2 1730-1745 39 0 1 0 0 37 26 0 0 2 2 57 1800-1815 35 0 2 0 0 0 37 26 0 0 0 45 1830-1845 34 0 1 0 1 36 54 0 0 0 0 45 1930-1945 27 0 2 0 1 0 34 36 1 0 0 0 33 1945-2000 18 1 0 0 0 0 1 0 33 28 1 0 0 0 23 2100-2115 18 0 0 0 0 0 24 23 0 0 0 23 2102-215 12 0 0 0 0 1 0 1 23 0 0 0 0 <t< td=""><td>1615-1630</td><td>33 40</td><td>1</td><td>1</td><td>0</td><td>2</td><td>1</td><td>33 45</td><td></td><td>43 39</td><td>1</td><td>2</td><td>0</td><td>2</td><td>0</td><td>47</td></t<>	1615-1630	33 40	1	1	0	2	1	33 45		43 39	1	2	0	2	0	47
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1630-1645	26	0	1	0	0	0	27		50	1	0	0	1	1	53
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1645-1700	35	0	0	0	0	0	35		37	1	2	0	1	0	41
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1700-1715 1715-1730	27 38	0	0	0	1	0	28		36 49	0	1	0	0	0	37 53
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1730-1745	39	õ	1	0	Ő	1	41		52	0	3	0	2	2	59
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1745-1800	38	0	0	0	1	0	39		55	0	0	0	2	0	57
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1800-1815 1815-1830	35 42	0	2	0	0	0	37		26 44	0	0	0	1	0	27
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1830-1845	34	0	1	0	0	1	36		54	0	0	0	0	0	54
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1845-1900	23	0	0	0	0	1	24		35	0	0	0	1	0	36
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1900-1915	32	0	1	0	1	0	34		36	1	0	0	1	0	38
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1915-1930	33 27	0	2	0	1	0	33		28 33	0	0	0	0	0	30
2000-2015 18 0 1 0 0 0 19 20 0 0 0 1 0 21 2015-2030 28 0 0 0 0 0 28 24 1 1 0 0 1 27 2030-2045 21 2 1 0 0 0 24 23 0 0 0 23 2045-2100 17 0 0 1 0 18 22 1 0 0 0 23 2100-2115 23 0 0 2 0 0 18 23 0 0 0 0 23 2115-2130 17 0 0 1 0 0 18 19 2 0 1 0 18 2145-2200 17 0 0 0 0 0 17 16 0 0 0 0 18 215-2230 14 0 0 2 0 16 19 </td <td>1945-2000</td> <td>18</td> <td>1</td> <td>0</td> <td>Ő</td> <td>0</td> <td>0</td> <td>19</td> <td></td> <td>29</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>30</td>	1945-2000	18	1	0	Ő	0	0	19		29	0	1	0	0	0	30
2015-2030 28 0 0 0 0 28 24 1 1 0 0 1 27 2030-2045 21 2 1 0 0 1 24 23 0 0 0 0 23 2045-2100 17 0 0 1 0 18 22 1 0 0 0 23 2100-2115 23 0 0 2 0 0 25 23 0 0 0 0 23 2115-2130 17 0 0 1 0 0 18 19 2 0 1 23 2130-2145 19 0 0 0 0 0 17 16 0 0 0 0 18 2145-2200 17 0 0 0 0 17 16 0 0 0 0 18 2215-2230 14 0 0 2 0 16 19 1 0 0<	2000-2015	18	0	1	0	0	0	19		20	0	0	0	1	0	21
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2015-2030	28	0	0	0	0	0	28		24	1	1	0	0	1	27
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2045-2100	17	0	0	0	1	0	18		22	1	0	0	0	0	23
2115-2130 17 0 0 1 0 0 18 19 2 0 1 0 1 23 2130-2145 19 0 0 0 0 0 19 18 19 2 0 1 0 1 23 2145-2200 17 0 0 0 0 17 16 0 0 0 18 2200-2215 12 0 0 0 0 12 16 0 0 0 16 2215-2230 14 0 0 0 0 0 13 12 0 0 0 23 23 2230-2245 13 0 0 0 0 0 13 12 0 0 0 2 0 14 2245-2300 10 0 0 0 0 10 18 0 0 0 0 14	2100-2115	23	0	0	2	0	0	25		23	0	0	0	0	0	23
2145-2143 19 0 0 0 0 0 19 18 0 0 0 0 18 2145-2200 17 0 0 0 0 17 16 0 0 0 18 2200-2215 12 0 0 0 0 0 12 16 0 0 0 0 16 2215-2230 14 0 0 0 2 0 16 19 1 0 0 3 0 23 23 230-2245 13 0 0 0 0 13 12 0 0 0 2 0 14 2245-2300 10 0 0 0 0 0 10 18 0 0 0 18	2115-2130	17	0	0	1	0	0	18		19	2	0	1	0	1	23
2200-2215 12 0 0 0 12 16 0 0 0 16 2215-2230 14 0 0 2 0 16 19 1 0 3 0 23 2230-2245 13 0 0 0 0 13 12 0 0 2 14 2245-2300 10 0 0 0 0 13 12 0 0 2 14	2130-2145	19	0	0	0	0	0	17		18	0	0	0	2	0	18
2215-2230 14 0 0 2 0 16 19 1 0 0 3 0 23 2230-2245 13 0 0 0 0 13 12 0 0 2 0 14 2245-2300 10 0 0 0 0 10 18 0 0 0 18	2200-2215	12	0	0	0	0	0	12		16	0	0	0	0	0	16
2230-2245 13 0 0 0 0 0 13 12 0 0 2 0 14 2245-2300 10 0 0 0 0 10 18 0 0 0 18	2215-2230	14	0	0	0	2	0	16		19	1	0	0	3	0	23
	2230-2245	13	0	0	0	0	0	13		12	0	0	0	2	0	14 18
0500-2300 2055 18 80 12 23 13 2201 1877 23 78 6 24 8 201	0500-2300	2055	18	80	12	23	13	2201		1877	23	78	6	24	8	2016



DATE : WEDNESDAY 15TH JANUARY 2013

LOCATION : FISHGUARD WAY / ALBERT RD / WOOLWICH MANOR WAY SIGNALS, LONDON E16

Г

		WOO LEFT	LWICH TO FIS	H MAN SHGUA	or WA	AY 'AY
	CAR	HGV	BUS	MCY	PCY	TOT
0630-0645	0					0
0645-0700	6					6
0700-0715	4					4
0715-0730	1					1
0730-0745	6					6
0745-0800	1					1
0800-0815	6					6
0815-0830	6		1			7
0830-0845	14					14
0845-0900	12					12
0900-0915	10					10
0915-0930	8					8
0630-0930	74	0	1	0	0	75
0630-0730	11	0	0	0	0	11
0645-0745	17	0	0	0	0	17
0700-0800	12	0	0	0	0	12
0715-0815	14	0	0	0	0	14
0730-0830	19	0	1	0	0	20
0745-0845	27	0	1	0	0	28
0800-0900	38	0	1	0	0	39
0815-0915	42	0	1	0	0	43
0830-0930	44	0	0	0	0	44

R WAY F ROAD		MAN	WICH	WOOL									
r ROAD													
CAR HGV BUS MCY PCY TOT													
PCY TOT	'	MCY	BUS	HGV	CAR								
3 70		2	2	12	51								
2 82		1	1	6	72								
78		1	1	6	70								
2 71		2	1	4	62								
55		1	1	1	52								
1 49			2	4	42								
1 50		2	2	1	44								
60			3	8	49								
66		1	1	5	59								
1 74			2	9	62								
1 72			1	6	64								
62			1	8	53								
11 789		10	18	70	680								
7 301		6	5	28	255								
4 286		5	4	17	256								
3 253		4	5	15	226								
4 225		5	6	10	200								
2 214		3	8	14	187								
2 225		3	8	18	194								
2 250		3	8	23	214								
2 272		1	7	28	234								

	WOO RIGH	LWICH	H MAN	OR WA	NY S
CAR	HGV	BUS	MCY	PCY	TOT
0					0
0					0
0	1				1
0					0
0					0
0					0
0					0
0					0
0					0
0					0
0					0
0					0
0	1	0	0	0	1
0	1	0	0	0	1
0	1	0	0	0	1
0	1	0	0	0	1
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
v					

		WOO	LWICH	I MAN	or W	λY
		LEFT	TO FIS	SHGUA	ARD W	ΆΥ
	CAR	HGV	BUS	MCY	PCY	TOT
1600-1615	5					5
1615-1630	10					10
1630-1645	12	1		1		14
1645-1700	12					12
1700-1715	17				1	18
1715-1730	11				1	12
1730-1745	19					19
1745-1800	10				1	11
1800-1815	15					15
1815-1830	11			2		13
1830-1845	13					13
1845-1900	12					12
1600-1900	147	1	0	3	3	154
1600-1700	39	1	0	1	0	41
1615-1715	51	1	0	1	1	54
1630-1730	52	1	0	1	2	56
		-			-	
1645-1745	59	0	0	0	2	61
1645-1745 1700-1800	59 57	0 0	0 0	0 0	2 3	61 60
1645-1745 1700-1800 1715-1815	59 57 55	0 0 0	0 0 0	0 0 0	2 3 2	61 60 57
1645-1745 1700-1800 1715-1815 1730-1830	59 57 55 55	0 0 0 0	0 0 0 0	0 0 0 2	2 3 2 1	61 60 57 58
1645-1745 1700-1800 1715-1815 1730-1830 1745-1845	59 57 55 55 49	0 0 0 0 0	0 0 0 0	0 0 2 2	2 3 2 1	61 60 57 58 52

	WOOI	WICH	MANO	or wa	Y
	AHEA	D ТО А	ALBER	T ROA	D
CAR	HGV	BUS	MCY	PCY	TOT
51	7	5			63
58	3	2	2	3	68
83	5	2	3	1	94
71	5	1	1	2	80
79	3	3	1	3	89
71	3	1	1		76
71	1	2	2		76
56	5	1	2	2	66
65	4	1	3	1	74
93	1	1	2	3	100
62	1	2	3		68
55	2	1	2		60
815	40	22	22	15	914
263	20	10	6	6	305
291	16	8	7	9	331
304	16	7	6	6	339
292	12	7	5	5	321
277	12	7	6	5	307
263	13	5	8	3	292
285	11	5	9	6	316
276	11	5	10	6	308
275	8	5	10	4	302

	WOO RIGH	LWIC	H MAN SITE /	IOR WA	AY IS
CAR	HGV	BUS	MCY	PCY	TOT
1	1				2
0	1				1
0					0
0					0
0					0
0	1				1
0	1				1
0					0
0					0
0					0
0					0
0					0
1	4	0	0	0	5
1	2	0	0	0	3
0	1	0	0	0	1
0	1	0	0	0	1
0	2	0	0	0	2
0	2	0	0	0	2
0	2	0	0	0	2
0	1	0	0	0	1
0	0	0	0	0	0
0	0	0	0	0	0

DATE : WEDNESDAY 15TH JANUARY 2013

LOCATION : FISHGUARD WAY / ALBERT RD / WOOLWICH MANOR WAY SIGNALS, LONDON E16

		F	ISHGL	JARD	WAY		1	[F	ISHGL	JARD	NAY		1		F	ISHGL	JARD	WAY	
		LEF	т то и	ALBER	AW T	Y			AHEA	AD TO	SITE	ACCES	SS		RIGH	нт то	wool	WICH	MANC	R WAY
	CAR	HGV	BUS	MCY	PCY	TOT		CAR	HGV	BUS	MCY	PCY	тот		CAR	HGV	BUS	MCY	PCY	тот
0630-0645	2					2		0					0		6					6
0645-0700	7					7		0					0		9				1	10
0700-0715	10			1	1	12		0					0		7				1	8
0715-0730	6					6		0					0		10					10
0730-0745	6					6		0					0		16					16
0745-0800	7					7		0					0		10					10
0800-0815	6					6		0					0		14				1	15
0815-0830	10					10		0					0		13			1		14
0830-0845	15					15		0					0		22			1		23
0845-0900	4					4		0					0		8					8
0900-0915	9					9		0					0		9					9
0915-0930	7					7		0					0		8					8
0630-0930	89	0	0	1	1	91		0	0	0	0	0	0		132	0	0	2	3	137
0630-0730	25	0	0	1	1	27		0	0	0	0	0	0		32	0	0	0	2	34
0645-0745	29	0	0	1	1	31		0	0	0	0	0	0		42	0	0	0	2	44
0700-0800	29	0	0	1	1	31		0	0	0	0	0	0		43	0	0	0	1	44
0715-0815	25	0	0	0	0	25		0	0	0	0	0	0		50	0	0	0	1	51
0730-0830	29	0	0	0	0	29		0	0	0	0	0	0		53	0	0	1	1	55
0745-0845	38	0	0	0	0	38		0	0	0	0	0	0		59	0	0	2	1	62
0800-0900	35	0	0	0	0	35		0	0	0	0	0	0		57	0	0	2	1	60
0815-0915	38	0	0	0	0	38		0	0	0	0	0	0		52	0	0	2	0	54
0830-0930	35	0	0	0	0	35		0	0	0	0	0	0		47	0	0	1	0	48

							-
		F	ISHG	UARD	NAY		I
		LEF	т то	ALBER	T WA	Y	
	CAR	HGV	BUS	MCY	PCY	TOT	ĺ
600-1615	3					3	
615-1630	3					3	
630-1645	7					7	
645-1700	6					6	
700-1715	3			1		4	
715-1730	2					2	l
730-1745	6					6	
745-1800	2					2	
800-1815	5					5	
815-1830	2					2	l
830-1845	2					2	
845-1900	3					3	l
600-1900	44	0	0	1	0	45	I
							I
600-1700	19	0	0	0	0	19	Ī
615-1715	19	0	0	1	0	20	
630-1730	18	0	0	1	0	19	
645-1745	17	0	0	1	0	18	I
700-1800	13	0	0	1	0	14	I
715-1815	15	0	0	0	0	15	I
730-1830	15	0	0	0	0	15	I
745-1845	11	0	0	0	0	11	I
800-1900	12	0	0	0	0	12	
							 -

	F	ISHGL	JARD	WAY	
	AHEA	AD TO	SITE /	ACCES	S
CAR	HGV	BUS	MCY	PCY	ΤΟΤ
0					0
0					0
0					0
0					0
0					0
0					0
0					0
0					0
0					0
0					0
0					0
0					0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0

RIGH	F IT TO	ISHGL WOOL	JARD V LWICH	WAY MANC	OR WAY
CAR	HGV	BUS	MCY	PCY	TOT
11					11
10					10
6					6
6			1		7
10			1		11
4					4
9					9
10				[10
7			1		8
11					11
8			1		9
9			1		10
101	0	0	5	0	106
33	0	0	1	0	34
32	0	0	2	0	34
26	0	0	2	0	28
29	0	0	2	0	31
33	0	0	1	0	34
30	0	0	1	0	31
37	0	0	1	0	38
36	0	0	2	0	38
35	0	0	3	0	38

DATE : WEDNESDAY 15TH JANUARY 2013

LOCATION : FISHGUARD WAY / ALBERT RD / WOOLWICH MANOR WAY SIGNALS, LONDON E16

1						
		LEET			AD CCESS	
	CAR	HGV	BUS	MCY	PCY	тот
0630-0645	0					0
0645-0700	0					0
0700-0715	0					0
0715-0730	0					0
0730-0745	0					0
0745-0800	0					0
0800-0815	0					0
0815-0830	0					0
0830-0845	1					1
0845-0900	0					0
0900-0915	0					0
0915-0930	0					0
0630-0930	1	0	0	0	0	1
0630-0730	0	0	0	0	0	0
0645-0745	0	0	0	0	0	0
0700-0800	0	0	0	0	0	0
0715-0815	0	0	0	0	0	0
0730-0830	0	0	0	0	0	0
0745-0845	1	0	0	0	0	1
0800-0900	1	0	0	0	0	1
0815-0915	1	0	0	0	0	1
0830-0930	1	0	0	0	0	1

ALBERT ROAD									
R WAY	MANC	WICH	WOOL	AD TO	AHEA				
TOT	PCY	MCY	BUS	HGV	CAR				
62	3	2		5	52				
42		1	2	5	34				
72	1	4	1	6	60				
25	1		1	1	22				
22			1		21				
34	1		2	5	26				
44	1		1	3	39				
47	3		3	2	39				
36	2		1		33				
56	2	1	1	7	45				
55		1	1	11	42				
65	1		2	8	54				
560	15	9	16	53	467				
201	5	7	4	17	168				
161	2	5	5	12	137				
153	3	4	5	12	129				
125	3	0	5	9	108				
147	5	0	7	10	125				
161	7	0	7	10	137				
183	8	1	6	12	156				
194	7	2	6	20	159				
212	5	2	5	26	174				

ALBERT ROAD RIGHT TO FISHGUARD WAY									
CAR	HGV	BUS	MCY	PCY	тот				
1					1				
1					1				
2			1		3				
1					1				
2					2				
0					0				
1		1			2				
1					1				
2					2				
1					1				
4					4				
2					2				
18	0	1	1	0	20				
5	0	0	1	0	6				
6	0	0	1	0	7				
5	0	0	1	0	6				
4	0	1	0	0	5				
4	0	1	0	0	5				
4	0	1	0	0	5				
5	0	1	0	0	6				
8	0	0	0	0	8				
9	0	0	0	0	9				

		ALBERT ROAD						ALBERT ROAD					
		LEFT	г то з	SITE A	CCESS	5		AHE	AD TO	WOOL	WICH	MANO	RWAY
	CAR	HGV	BUS	MCY	PCY	TOT		CAR	HGV	BUS	MCY	PCY	тот
1600-1615	0					0		73	9	2		1	85
1615-1630	0					0		65	2		1		68
1630-1645	0					0		98	6	3	1	1	109
1645-1700	0					0		72	7	1	2	1	83
1700-1715	1					1		83	1	1	2	1	88
1715-1730	0					0		64	5	2			71
1730-1745	0					0		72	3	1	2	1	79
1745-1800	0					0		68	4	1	2	1	76
1800-1815	0					0		55	2	1		2	60
1815-1830	0					0		64	4	1		1	70
1830-1845	0					0		76	2	1			79
1845-1900	0					0		44	2	1			47
1600-1900	1	0	0	0	0	1		834	47	15	10	9	915
1600-1700	0	0	0	0	0	0		308	24	6	4	3	345
1615-1715	1	0	0	0	0	1		318	16	5	6	3	348
1630-1730	1	0	0	0	0	1		317	19	7	5	3	351
1645-1745	1	0	0	0	0	1		291	16	5	6	3	321
1700-1800	1	0	0	0	0	1		287	13	5	6	3	314
1715-1815	0	0	0	0	0	0		259	14	5	4	4	286
1730-1830	0	0	0	0	0	0		259	13	4	4	5	285
1745-1845	0	0	0	0	0	0		263	12	4	2	4	285
1800-1900	0	0	0	0	0	0		239	10	4	0	3	256

ALBERT ROAD										
RIGHT TO FISHGUARD WAY										
CAR	HGV	BUS	MCY	PCY	тот					
2					2					
2					2					
5			1		6					
5					5					
5					5					
3			2	1	6					
6			1		7					
7			1		8					
7			1		8					
10			1		11					
7					7					
5			1		6					
64	0	0	8	1	73					
14	0	0	1	0	15					
17	0	0	1	0	18					
18	0	0	3	1	22					
19	0	0	3	1	23					
01	0	0	4	1	26					
21										
21	0	0	5	1	29					
21 23 30	0 0	0 0	5 4	1 0	29 34					
21 23 30 31	0 0 0	0 0 0	5 4 3	1 0 0	29 34 34					

(Woolwich Ferry not in operation between 0705 - 0844)

DATE : WEDNESDAY 15TH JANUARY 2013

LOCATION : FISHGUARD WAY / ALBERT RD / WOOLWICH MANOR WAY SIGNALS, LONDON E16

		SITE ACCESS				SITE ACCESS						SITE	ACCE	SS				
	LEF	ттои	VOOL	NICH I	MANO	R WAY	4	HEAD	TO FI	SHGU	ARD W	/AY		RIG	нт то	ALBE	RT RD)
	CAR	HGV	BUS	MCY	PCY	тот	CAR	HGV	BUS	MCY	PCY	тот	CAR	HGV	BUS	MCY	PCY	TOT
0630-0645	0					0	0					0	0					0
0645-0700	0					0	0					0	0					0
0700-0715	0					0	0					0	0					0
0715-0730	0					0	0					0	0					0
0730-0745	0					0	0					0	0					0
0745-0800	0					0	0					0	0					0
0800-0815	0					0	0					0	0					0
0815-0830	0					0	0					0	0					0
0830-0845	0					0	0					0	0					0
0845-0900	1					1	0					0	0					0
0900-0915	0	1				1	0					0	0					0
0915-0930	0					0	0					0	0					0
0630-0930	1	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
0630-0730	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0645-0745	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0700-0800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0715-0815	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0730-0830	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0745-0845	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0800-0900	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
0815-0915	1	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
0830-0930	1	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0

	SITE ACCESS								
	LEF	т то и	VOOL	NICH N	IANO	RWAY			
	CAR	HGV	BUS	MCY	PCY	TOT			
1600-1615	1					1			
1615-1630	0					0			
1630-1645	1					1			
1645-1700	1	2				3			
1700-1715	0					0			
1715-1730	0					0			
1730-1745	0					0			
1745-1800	0					0			
1800-1815	0	1				1			
1815-1830	0					0			
1830-1845	0					0			
1845-1900	0	1				1			
1600-1900	3	4	0	0	0	7			
1600-1700	3	2	0	0	0	5			
1615-1715	2	2	0	0	0	4			
1630-1730	2	2	0	0	0	4			
1645-1745	1	2	0	0	0	3			
1700-1800	0	0	0	0	0	0			
1715-1815	0	1	0	0	0	1			
1730-1830	0	1	0	0	0	1			
1745-1845	0	1	0	0	0	1			
1800-1900	0	2	0	0	0	2			

SITE ACCESS										
A	HEAD	TO FI	SHGU	ARD W	/AY					
CAR	HGV	BUS	MCY	PCY	TOT					
0					0					
0					0					
0					0					
0					0					
0					0					
0					0					
0					0					
0					0					
0					0					
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0					0					
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0	0	0	0	0	0					
0	0	0	0	0	0					
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0	0	0	0	0	0					
0	0	0	0	0	0					
0	0	0	0	0	0					
0	0	0	0	0	0					
0	0	0	0	0	0					
0	0	0	0	0	0					
0	0	0	0	0	0					

<u> </u>		OITE	ACCE	<u>ee</u>							
	RIGHT TO ALBERT RD										
CAR	HGV	BUS	MCY	PCY	TOT						
0					0						
0					0						
0					0						
0					0						
0					0						
0					0						
0					0						
0					0						
0					0						
0					0						
0					0						
0					0						
0	0	0	0	0	0						
0	0	0	0	0	0						
0	0	0	0	0	0						
0	0	0	0	0	0						
0	0	0	0	0	0						
0	0	0	0	0	0						
0	0	0	0	0	0						
0	0	0	0	0	0						
0	0	0	0	0	0						
0	0	0	0	0	0						

APPENDIX M

Modelling Output





File: X:\Projects\110000\110116A - City Airport ESD\Modelling\ARCADY\Connaught Bridge Road Roundabout.arc7 Report generation date: 24/06/2013 11:42:09

« A1 - (Defau	It Analysis	Set) - D1 - I	Existing, A	M Peak
---------------	-------------	---------------	-------------	--------

- » Roundabout Network
- » Arms
- » Traffic Flows
- » Entry Flows
- » Direct/Resultant Flows
- » Turning Proportions
- » Vehicle Mix
- » Results
- » Overview: Standard Roundabout Geometry
- » Overview: Time Segment Results

File summary

File Description

Title	(untitled)
Location	
Site Number	
Date	17/01/2012
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	VECTOS\Robert.Roughan
Description	

Analysis Options

RFC Threshold	Vehicle Length (m)	Do Queue Variations
0.85	5.75	

Sorting and Display

Show Arm Names	Arm Grouping	Sorting Direction	Sorting Type	Data Matrix Style	Time Style
	Order	Ascending	Numerical	By Destination	Absolute Time

Units

Distance Units	Speed Units	Traffic Units Input	Traffic Units Results	Flow Units	Average Delay Units	Total Delay Units	Rate Of Delay Units
m	kph	Veh	Veh	perHour	min	-Min	perMin

A1 - (Default Analysis Set) - D1 - Existing, AM Peak



Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Description	Include In Report	Use Specific Demand Set	Demand Set	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
(Default Analysis Set)		Yes		(D1)		100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Locked	Run Automatically	Use Relationship	Relationship	Start Time (HH:mm)	Finish Time (HH:mm)	Time Period Length (min)	Time Segment Length (min)	Traffic Profile Type
Existing, AM Peak	Existing	AM Peak						07:45	09:15	90	15	ONE HOUR

Roundabout Network

Roundabout Type(s)

ID	Name	Arm Order	Roundabout Type	Grade Separated	Large Roundabout	Do Geometric Delay
1	Connaught Bridge Road/Connaught Road	A,B,C,D	Standard			

Roundabout Network Options

Driving Side	Lighting	Road Surface	In London
Left	Normal/unknown	((Mini-roundabouts only))	

Arms

Arms

ID	Name	Description
А	Connaught Bridge Road (N)	
в	Connaught Road (E)	
С	Connaught Bridge Road (South)	
D	Silvertown Quays	

Capacity Options

Arm	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
Α	0.00	99999.00		0.00
в	0.00	99999.00		0.00
С	0.00	99999.00		0.00
D	0.00	99999.00		0.00

Standard Geometry

Arm	V - Approach road half- width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only
A	7.30	7.50	1.00	20.00	46.50	24.50	
В	4.50	7.00	15.00	19.00	46.50	23.00	
С	7.30	7.50	1.00	19.00	46.50	25.00	
D	5.00	7.30	15.00	40.00	46.50	26.00	·

Pedestrian Crossings



Arm	Crossing Type
Α	None
В	None
С	None
D	None

Arm Slope/ Intercept and Capacity

Slope and Intercept used in model

Arm	Enter Directly	Slope	Intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
Α		((calculated))	((calculated))	0.743	2291.771
В		((calculated))	((calculated))	0.667	1897.860
С		((calculated))	((calculated))	0.740	2282.081
D		((calculated))	((calculated))	0.703	2058.499

The slope and intercept shown above include any corrections and adjustments.

Traffic Flows

Demand Set Data Options

Default Vehicle Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn	Vehicle Mix Varies Over Entry	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
		Yes	Yes	HV Percentages	2.00				Yes	Yes

Entry Flows

General Flows Data

Arm	Profile Type	Use Turning Counts	Average Demand Flow (Veh/hr)	Flow Scaling Factor (%)	PHF
Α	ONE HOUR	Yes	752.00	100.000	N/A
В	ONE HOUR	Yes	617.00	100.000	N/A
С	ONE HOUR	Yes	630.00	100.000	N/A
D	ONE HOUR	Yes	0.00	100.000	N/A

Direct/Resultant Flows

Direct Flows Data

Time Segment	Arm	Direct Demand Entry Flow (Veh/hr)	DirectDemandEntryFlowInPCU (PCU/hr)	Direct Demand Exit Flow (Veh/hr)	Direct Demand Pedestrian Flow (Ped/hr)	
1	1 A 56		622.00	N/A	N/A	
1	В	464.51	475.77	N/A	N/A	
1	С	474.30	531.41	N/A	N/A	
1	D	0.00	0.00	N/A	N/A	
2	A 676.03		742.72	N/A	N/A	
2	В	554.67	568.11	N/A	N/A	
2	С	566.36	634.56	N/A	N/A	
2	D	0.00	0.00	N/A	N/A	
3	A	827.97	909.65	N/A	N/A	
3	В	679.33	695.80	N/A	N/A	
3	3 C 693.64		777.17	N/A	N/A	
3	D	0.00	0.00	N/A	N/A	
1.2						



4	A	827.97	909.65	N/A	N/A
4	В	679.33	695.80	N/A	N/A
4	C	693.64	777.17	N/A	N/A
4	D	0.00	0.00	N/A	N/A
5	A	676.03	742.72	N/A	N/A
5	В	554.67	568.11	N/A	N/A
5	C	566.36	634.56	N/A	N/A
5	D	0.00	0.00	N/A	N/A
6	A	566.15	622.00	N/A	N/A
6	В	464.51	475.77	N/A	N/A.
6	С	474.30	531.41	N/A	N/A
6	D	0.00	0.00	N/A	N/A

Turning Proportions

Turning Counts or Proportions (Veh/hr) - Roundabout 1 (for whole period)

	То									
		A	В	С	D					
	A	0.000	217.000	535.000	0.000					
From	В	228.000	0.000	389.000	0.000					
	С	321.000	309.000	0.000	0.000					
	D	0.000	0.000	0.000	0.000					

Turning Proportions (Veh) - Roundabout 1 (for whole period)

	То								
		A	В	С	D				
	Α	0.00	0.29	0.71	0.00				
From	в	0.37	0.00	0.63	0.00				
	С	0.51	0.49	0.00	0.00				
	D	0.25	0.25	0.25	0.25				

Vehicle Mix

Average PCU Per Vehicle - Roundabout 1 (for whole period)

	То								
		Α	В	С	D				
	Α	1.000	1.083	1.105	1.000				
From	в	1.040	1.000	1.015	1.000				
	С	1.168	1.071	1.000	1.000				
	D	1.000	1.000	1.000	1.000				

Heavy Vehicle Percentages - Roundabout 1 (for whole period)

	То								
		A	В	С	D				
	Α	0.000	8.300	10.500	0.000				
From	В	4.000	0.000	1.500	0.000				
	С	16.800	7.100	0.000	0.000				
	D	0.000	0.000	0.000	0.000				

Results



Results Summary

Arm	Max RFC	Max Delay (min)	Max Queue (Veh)	Max LOS	Total Demand (Veh/hr)	Total Arrivals (Veh)	Total Queueing Delay (Veh- min)	Average Queueing Delay (min)	Rate Of Queueing Delay (Veh- min/min)	Inclusive Queueing Total Delay (Veh-min)	Inclusive Queueing Average Delay (min)	Slope	Intercept (PCU/hr)
Α	0.45	0.06	0.82	A	690.05	1035.07	53.50	0.05	0.59	53.50	0.05	0.743	2291.771
В	0.48	0.08	0.90	A	566.17	849.25	56.76	0.07	0.63	56.76	0.07	0.667	1897.860
С	0.37	0.05	0.59	A	578.10	867.15	40.17	0.05	0.45	40.17	0.05	0.740	2282.081
D	0.00	0.00	0.00	A	0.00	0.00	0.00	0.00	0.00	0.00	166666666.65	0.703	2058.499

Overview: Standard Roundabout Geometry

Standard Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	I' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only	Final Slope	Final Intercept (PCU/hr)
A	7.30	7.50	1.00	20.00	46.50	24.50		0.743	2291.771
В	4.50	7,00	15.00	19.00	46.50	23.00		0.667	1897.860
С	7.30	7.50	1.00	19.00	46.50	25.00		0.740	2282.081
D	5.00	7.30	15.00	40.00	46.50	26.00		0.703	2058.499

Overview: Time Segment Results

Time Segment Results

Time Segment	Arm	Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Pedestrian Demand (Ped/hr)	Start Queue (Veh)	End Queue (Veh)	Queueing Total Delay (Veh-min)	Geometric Total Delay (Veh-min)	Average Delay Per Arriving Vehicle (min)
1	A	566.15	1918.00	0.295	0.00	0.00	0.42	6.14	(0.02)	0.044
1	В	464.51	1563.84	0.297	0.00	0.00	0.42	6.17	(0.02)	0.054
1	С	474.30	1919.39	0.247	0.00	0.00	0.33	4.82	(0.01)	0.041
1	D	0.00	1560.72	0.000	0.00	0.00	0.00	0.00	(0.02)	0.000
2	A	676.03	1884.98	0.359	0.00	0.42	0.56	8.22	(0.02)	0.050
2	в	554.67	1506.99	0.368	0.00	0.42	0.58	8.52	(0.02)	0.063
2	С	566.36	1896.25	0.299	0.00	0.33	0.42	6.28	(0.01)	0.045
2	D	0.00	1462.80	0.000	0.00	0.00	0.00	0.00	(0.02)	0.000
3	A	827.97	1839.87	0.450	0.00	0.56	0.81	11.94	(0.02)	0.059
3	в	679.33	1429.42	0.475	0.00	0.58	0.90	13.09	(0.02)	0.080
3	С	693.65	1864.78	0.372	0.00	0.42	0.59	8.69	(0.01)	0.051
3	D	0.00	1329.20	0.000	0.00	0.00	0.00	0.00	(0.02)	0.000
4	A	827.97	1839.64	0.450	0.00	0.81	0.82	12.21	(0.02)	0.059
4	В	679.33	1428.90	0.475	0.00	0.90	0.90	13.50	(0.02)	0.080
4	С	693.65	1864.46	0.372	0.00	0.59	0.59	8.85	(0.01)	0.051
4	D	0.00	1328.35	0.000	0.00	0.00	0.00	0.00	(0.02)	0.000
5	A	676.03	1884.61	0.359	0.00	0.82	0.56	8.58	(0.02)	0.050
5	в	554.67	1506.19	0.368	0.00	0.90	0.59	9.00	(0.02)	0.063
5	С	566.36	1895.77	0.299	0.00	0.59	0.43	6.51	(0.01)	0.045
5	D	0.00	1461.47	0.000	0.00	0.00	0.00	0.00	(0.02)	0.000
6	A	566.15	1917.40	0.295	0.00	0.56	0.42	6.40	(0.02)	0.044
6	В	464.51	1562.70	0.297	0.00	0.59	0.43	6.49	(0.02)	0.055
6	С	474.30	1918.80	0.247	0.00	0.43	0.33	5.01	(0.01)	0.042
6	D	0.00	1558.75	0.000	0.00	0.00	0.00	0.00	(0.02)	0.000





File: X:\Projects\110000\110116A - City Airport ESD\Modelling\ARCADY\Connaught Bridge Road Roundabout.arc7 Report generation date: 24/06/2013 11:42:51



- » Roundabout Network
- » Arms
- » Traffic Flows
- » Entry Flows
- » Direct/Resultant Flows
- » Turning Proportions
- » Vehicle Mix
- » Results
- » Overview: Standard Roundabout Geometry
- » Overview: Time Segment Results

File summary

File Description

Title	(untitled)
Location	
Site Number	
Date	17/01/2012
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	VECTOS\Robert.Roughan
Description	

Analysis Options

RFC Threshold	Vehicle Length (m)	Do Queue Variations
0.85	5.75	

Sorting and Display

Show Arm Names	Arm Grouping	Sorting Direction	Sorting Type	Data Matrix Style	Time Style
	Order	Ascending	Numerical	By Destination	Absolute Time

Units

Distance Units	Speed Units	Traffic Units Input	Traffic Units Results	Flow Units	Average Delay Units	Total Delay Units	Rate Of Delay Units
m	kph	Veh	Veh	perHour	min	-Min	perMin

A1 - (Default Analysis Set) - D2 - Existing, PM Peak



Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Description	Include In Report	Use Specific Demand Set	Demand Set	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
(Default Analysis Set)		Yes		(D1)		100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Locked	Run Automatically	Use Relationship	Relationship	Start Time (HH:mm)	Finish Time (HH:mm)	Time Period Length (min)	Time Segment Length (min)	Traffic Profile Type
Existing, PM Peak	Existing	PM Peak			Yes			16:45	<mark>18:1</mark> 5	90	15	ONE HOUR

Roundabout Network

Roundabout Type(s)

ID	Name	Arm Order	Roundabout Type	Grade Separated	Large Roundabout	Do Geometric Delay
1	Connaught Bridge Road/Connaught Road	A,B,C,D	Standard			

Roundabout Network Options

Driving Side	Lighting	Road Surface	In London
Left	Normal/unknown	((Mini-roundabouts only))	

Arms

Arms

ID	Name	Description
А	Connaught Bridge Road (N)	
в	Connaught Road (E)	
С	Connaught Bridge Road (South)	
D	Silvertown Quays	

Capacity Options

Arm	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
Α	0.00	99999.00		0.00
в	0.00	99999.00		0.00
С	0.00	99999.00		0.00
D	0.00	99999.00		0.00

Standard Geometry

Arm	V - Approach road half- width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only
A	7.30	7.50	1.00	20.00	46.50	24.50	
В	4.50	7.00	15.00	19.00	46.50	23.00	
С	7.30	7.50	1.00	19.00	46.50	25.00	
D	5.00	7.30	15.00	40.00	46.50	26.00	I

Pedestrian Crossings



Arm	Crossing Type
Α	None
В	None
С	None
D	None

Arm Slope/ Intercept and Capacity

Slope and Intercept used in model

Arm	Enter Directly	Slope	Intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
Α		((calculated))	((calculated))	0.743	2291.771
В		((calculated))	((calculated))	0.667	1897.860
С		((calculated))	((calculated))	0.740	2282.081
D		((calculated))	((calculated))	0.703	2058.499

The slope and intercept shown above include any corrections and adjustments.

Traffic Flows

Demand Set Data Options

Default Vehicle Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn	Vehicle Mix Varies Over Entry	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
		Yes	Yes	HV Percentages	2.00				Yes	Yes

Entry Flows

General Flows Data

Arm	Profile Type	Use Turning Counts	Average Demand Flow (Veh/hr)	Flow Scaling Factor (%)	PHF
Α	ONE HOUR	Yes	461.00	100.000	N/A
В	ONE HOUR	Yes	534.00	100.000	N/A
С	ONE HOUR	Yes	1140.00	100.000	N/A
D	ONE HOUR	Yes	0.00	100.000	N/A

Direct/Resultant Flows

Direct Flows Data

Time Segment	Arm	Direct Demand Entry Flow (Veh/hr)	DirectDemandEntryFlowInPCU (PCU/hr)	Direct Demand Exit Flow (Veh/hr)	Direct Demand Pedestrian Flow (Ped/hr)
1	A	347.06	366.69	N/A	N/A
1	В	402.02	410.97	N/A	N/A
1	С	858.25	908.44	N/A	N/A
1	D	0.00	0.00	N/A	N/A.
2	A	414.43	437.87	N/A	N/A
2	В	480.06	490.73	N/A	N/A
2	С	1024.84	1084.77	N/A	N/A
2	D	0.00	0.00	N/A	N/A
3	A	507.57	536.28	N/A	N/A
3	B	587.94	601.03	N/A	N/A
3	С	1255.16	1328.57	N/A	N/A
3	D	0.00	0.00	N/A	N/A
24					





4	A	507.57	536.28	N/A	N/A.
4	В	587.94	601.03	N/A	N/A
4	С	1255.16	1328.57	N/A	N/A
4	D	0.00	0.00	N/A	N/A
5	A	414.43	437.87	N/A	N/A
5	В	480.06	490.73	N/A	N/A
5	С	1024.84	1084.77	N/A	N/A
5	D	0.00	0.00	N/A	N/A
6	A	347.06	366.69	N/A	N/A
6	В	402.02	410.97	N/A	N/A
6	С	858.25	908.44	N/A	N/A
6	D	0.00	0.00	N/A	N/A

Turning Proportions

Turning Counts or Proportions (Veh/hr) - Roundabout 1 (for whole period)

	То									
		A	В	С	D					
	A	0.000	166.000	295.000	0.000					
From	В	182.000	0.000	352.000	0.000					
	С	670.000	470.000	0.000	0.000					
	D	0.000	0.000	0.000	0.000					

Turning Proportions (Veh) - Roundabout 1 (for whole period)

	То						
		A	В	С	D		
	Α	0.00	0.36	0.64	0.00		
From	в	0.34	0.00	0.66	0.00		
	С	0.59	0.41	0.00	0.00		
	D	0.25	0.25	0.25	0.25		

Vehicle Mix

Average PCU Per Vehicle - Roundabout 1 (for whole period)

	То						
		Α	В	С	D		
	Α	1.000	1.054	1.058	1.000		
From	в	1.044	1.000	1.011	1.000		
	С	1.049	1.072	1.000	1.000		
	D	1.000	1.000	1.000	1.000		

Heavy Vehicle Percentages - Roundabout 1 (for whole period)

	То						
		A	В	С	D		
	Α	0.000	5.400	5.800	0.000		
From	в	4.400	0.000	1.100	0.000		
	С	4.900	7.200	0.000	0.000		
	D	0.000	0.000	0.000	0.000		

Results



Results Summary

Arm	Max RFC	Max Delay (min)	Max Queue (Veh)	Max LOS	Total Demand (Veh/hr)	Total Arrivals (Veh)	Total Queueing Delay (Veh- min)	Average Queueing Delay (min)	Rate Of Queueing Delay (Veh- min/min)	Inclusive Queueing Total Delay (Veh-min)	Inclusive Queueing Average Delay (min)	Slope	Intercept (PCU/hr)
Α	0.29	0.05	0.40	A	423.02	634.53	27.19	0.04	0.30	27.19	0.04	0.743	2291.771
В	0.36	0.06	0.56	A	490.01	735.01	37.99	0.05	0.42	37.99	0.05	0.667	1897.860
С	0.62	0.08	1.65	A	1046.09	1569.13	100.40	0.06	1.12	100.41	0.06	0.740	2282.081
D	0.00	0.00	0.00	A	0.00	0.00	0.00	0.00	0.00	0.00	166666666.65	0.703	2058.499

Overview: Standard Roundabout Geometry

Standard Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only	Final Slope	Final Intercept (PCU/hr)
A	7.30	7.50	1.00	20.00	46.50	24.50		0.743	2291.771
В	4.50	7.00	15.00	19.00	46.50	23.00		0.667	1897.860
С	7.30	7.50	1.00	19.00	46.50	25.00		0.740	2282.081
D	5.00	7.30	15.00	40.00	46.50	26.00		0.703	2058.499

Overview: Time Segment Results

Time Segment Results

Time Segment	Arm	Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Pedestrian Demand (Ped/hr)	Start Queue (Veh)	End Queue (Veh)	Queueing Total Delay (Veh-min)	Geometric Total Delay (Veh-min)	Average Delay Per Arriving Vehicle (min)
1	A	347.06	1903.30	0.182	0.00	0.00	0.22	3.29	(0.02)	0.039
1	В	402.02	1703.57	0.236	0.00	0.00	0.31	4.53	(0.02)	0.046
1	С	858.25	2056.34	0.417	0.00	0.00	0.71	10.44	(0.02)	0.050
1	D	0.00	1321.45	0.000	0.00	0.00	0.00	0.00	(0.02)	0.000
2	A	414.43	1851.02	0.224	0.00	0.22	0.29	4.26	(0.02)	0.042
2	В	480.05	1673.52	0.287	0.00	0.31	0.40	5.92	(0.02)	0.050
2	C	1024.84	2036.73	0.503	0.00	0.71	1.00	14.75	(0.02)	0.059
2	D	0.00	1176.46	0.000	0.00	0.00	0.00	0.00	(0.02)	0.000
3	A	507.57	1779.88	0.285	0.00	0.29	0.40	5.87	(0.02)	0.047
3	В	587.94	1632.43	0.360	0.00	0.40	0.56	8.25	(0.02)	0.057
3	С	1255.17	2009.97	0.624	0.00	1.00	1.64	23.77	(0.02)	0.079
3	D	0.00	979.10	0.000	0.00	0.00	0.00	0.00	(0.02)	0.000
4	A	507.57	1779.11	0.285	0.00	0.40	0.40	5.97	(0.02)	0.047
4	В	587.94	1632.24	0.360	0.00	0.56	0.56	8.41	(0.02)	0.057
4	C	1255.17	2009.81	0.625	0.00	1.64	1.65	24.71	(0.02)	0.079
4	D	0.00	977.08	0.000	0.00	0.00	0.00	0.00	(0.02)	0.000
5	A	414.43	1849.87	0.224	0.00	0.40	0.29	4.40	(0.02)	0.042
5	В	480.05	1673.21	0.287	0.00	0.56	0.40	6.16	(0.02)	0.050
5	С	1024.84	2036.48	0.503	0.00	1.65	1.02	15.71	(0.02)	0.060
5	D	0.00	1173.46	0.000	0.00	0.00	0.00	0.00	(0.02)	0.000
6	A	347.06	1902.04	0.182	0.00	0.29	0.22	3.40	(0.02)	0.039
6	В	402.02	1703.06	0.236	0.00	0.40	0.31	4.72	(0.02)	0.046
6	С	858.25	2055.94	0.417	0.00	1.02	0.72	11.01	(0.02)	0.050
6	D	0.00	1318.04	0.000	0.00	0.00	0.00	0.00	(0.02)	0.000





File: X:\Projects\110000\110116A - City Airport ESD\Modelling\ARCADY\Connaught Bridge Road Roundabout.arc7 Report generation date: 24/06/2013 11:43:19

WILL INCIDENTAL ALL ACT NAME LITTLEAR NEADER ALLALITE LITTLE PART	« A1 -	(Default Analysis	Set) - D3 - 2021	Without Development, AM Pr	eak
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- » Roundabout Network
- » Arms
- » Traffic Flows
- » Entry Flows
- » Direct/Resultant Flows
- » Turning Proportions
- » Vehicle Mix
- » Results
- » Overview: Standard Roundabout Geometry
- » Overview: Time Segment Results

File summary

File Description

Title	(untitled)
Location	
Site Number	
Date	17/01/2012
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	VECTOS\Robert.Roughan
Description	

Analysis Options

RFC Threshold	Vehicle Length (m)	Do Queue Variations
0.85	5.75	

Sorting and Display

Show Arm Names	Arm Grouping Sorting Direction		Sorting Type	Data Matrix Style	Time Style	
	Order	Ascending	Numerical	By Destination	Absolute Time	

Units

Distance Units	Speed Units	Traffic Units Input	Traffic Units Results	Flow Units	Average Delay Units	Total Delay Units	Rate Of Delay Units
m	kph	Veh	Veh	perHour	min	-Min	perMin

A1 - (Default Analysis Set) - D3 - 2021 Without



Development, All reak

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Description	Include In Report	Use Specific Demand Set	Demand Set	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
(Default Analysis Set)		Yes		(D1)		100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Locked	Run Automatically	Use Relationship	Relationship	Start Time (HH:mm)	Finish Time (HH:mm)	Time Period Length (min)	Time Segment Length (min)	Traffic Profile Type
2021 Without Development, AM Peak	2021 Without Development	AM Peak						07:45	09:15	90	15	ONE HOUR

Roundabout Network

Roundabout Type(s)

ID	Name	Arm Order	Roundabout Type	Grade Separated	Large Roundabout	Do Geometric Delay
1	Connaught Bridge Road/Connaught Road	A,B,C,D	Standard			

Roundabout Network Options

Driving Side	Lighting	Road Surface	In London
Left	Normal/unknown	((Mini-roundabouts only))	

Arms

Arms

ID	Name	Description
А	Connaught Bridge Road (N)	
в	Connaught Road (E)	
С	Connaught Bridge Road (South)	
D	Silvertown Quays	

Capacity Options

Arm	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
Α	0.00	99999.00		0.00
В	0.00	99999.00		0.00
С	0.00	99999.00		0.00
D	0.00	99999.00		0.00

Standard Geometry

Arm	V - Approach road half- width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only
A	7.30	7.50	1.00	20.00	46.50	24.50	
В	4.50	7.00	15.00	19.00	46.50	23.00	
С	7.30	7.50	1.00	19.00	46.50	25.00	
D	5.00	7.30	15.00	40.00	46.50	26.00	·



Pedestrian Crossings

Arm	Crossing Type
Α	None
В	None
С	None
D	None

Arm Slope/ Intercept and Capacity

Slope and Intercept used in model

Arm	Enter Directly	Slope	Intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
Α		((calculated))	((calculated))	0.743	2291.771
В		((calculated))	((calculated))	0.667	1897.860
С		((calculated))	((calculated))	0.740	2282.081
D		((calculated))	((calculated))	0.703	2058.499

The slope and intercept shown above include any corrections and adjustments.

Traffic Flows

Demand Set Data Options

Default Vehicle Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn	Vehicle Mix Varies Over Entry	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
		Yes	Yes	HV Percentages	2.00			1	Yes	Yes

Entry Flows

General Flows Data

Arm	Profile Type	Use Turning Counts	Average Demand Flow (Veh/hr)	Flow Scaling Factor (%)	PHF
Α	ONE HOUR	Yes	1102.00	100.000	N/A
В	ONE HOUR	Yes	860.00	100.000	N/A
С	ONE HOUR	Yes	882.00	100.000	N/A
D	ONE HOUR	Yes	164.00	100.000	N/A

Direct/Resultant Flows

Direct Flows Data

Time Segment	Arm	Direct Demand Entry Flow (Veh/hr)	DirectDemandEntryFlowInPCU (PCU/hr)	Direct Demand Exit Flow (Veh/hr)	Direct Demand Pedestrian Flow (Ped/hr)
1	A	829.64	893.32	N/A	N/A
1	В	647.45	660.62	N/A	N/A
1	С	664.02	729.67	N/A	N/A
1	D	123.47	123.47	N/A	N/A
2	A	990.68	1066.71	N/A	N/A
2	В	773.12	788.85	N/A	N/A
2	С	792.90	871.30	N/A	N/A
2	D	147.43	147.43	N/A	N/A
3	A	1213.32	1306.44	N/A	N/A
3	В	946.88	966.14	N/A	N/A



3	C	971.10	1067.12	N/A	N/A
3	D	180.57	180.57	N/A	N/A
4	A	1213.32	1306.44	N/A	N/A
4	В	946.88	966.14	N/A	N/A
4	С	971.10	1067.12	N/A	N/A
4	D	180.57	180.57	N/A	N/A
5	A	990.68	1066.71	N/A	N/A
5	В	773.12	788.85	N/A	N/A
5	C	792.90	871.30	N/A	N/A
5	D	147.43	147.43	N/A	N/A
6	A	829.64	893.32	N/A	N/A
6	В	647.45	660.62	N/A	N/A
6	С	664.02	729.67	N/A	N/A
6	D	123.47	123.47	N/A	N/A

Turning Proportions

Turning Counts or Proportions (Veh/hr) - Roundabout 1 (for whole period)

	То								
		A	В	С	D				
	A	0.000	255.000	752.000	95.000				
From	в	308.000	0.000	540.000	12.000				
	С	470.000	406.000	0.000	6.000				
	D	138.000	17.000	9.000	0.000				

Turning Proportions (Veh) - Roundabout 1 (for whole period)

	То							
		A	В	С	D			
	A	0.00	0.23	0.68	0.09			
From	в	0.36	0.00	0.63	0.01			
	С	0.53	0.46	0.00	0.01			
	D	0.84	0.10	0.05	0.00			

Vehicle Mix

Average PCU Per Vehicle - Roundabout 1 (for whole period)

	То							
		Α	В	С	D			
	A	1.000	1.081	1.085	1.000			
From	В	1.034	1.000	1.013	1.000			
	С	1.132	1.062	1.000	1.000			
	D	1.000	1.000	1.000	1.000			

Heavy Vehicle Percentages - Roundabout 1 (for whole period)

	То								
		A	В	С	D				
	Α	0.000	8.100	8.500	0.000				
From	В	3. <mark>4</mark> 00	0.000	1.300	0.000				
	С	13.200	6.200	0.000	0.000				
	D	0.000	0.000	0.000	0.000				



Results

Results Summary

Arm	Max RFC	Max Delay (min)	Max Queue (Veh)	Max	Total Demand (Veh/hr)	Total Arrivals (Veh)	Total Queueing Delay (Veh- min)	Average Queueing Delay (min)	Rate Of Queueing Delay (Veh- min/min)	Inclusive Queueing Total Delay (Veh-min)	Inclusive Queueing Average Delay (min)	Slope	Intercept (PCU/hr)
Α	0.68	0.11	2.11	A	1011.21	1516.82	119.78	0.08	1.33	119.79	0.08	0.743	2291.771
В	0.79	0.24	3.64	В	789.15	1183.73	169.65	0.14	1.88	169.66	0.14	0.667	1897.860
С	0.55	0.08	1.22	A	809.34	1214.01	75.77	0.06	0.84	75.78	0.06	0.740	2282.081
D	0.17	0.07	0.20	A	150.49	225.73	12.99	0.06	0.14	12.99	0.06	0.703	2058.499

Overview: Standard Roundabout Geometry

Standard Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only	Final Slope	Final Intercept (PCU/hr)
A	7.30	7.50	1.00	20.00	46.50	24.50		0.743	2291.771
В	4.50	7.00	15.00	19.00	46.50	23.00		0.667	1897.860
С	7.30	7.50	1.00	19.00	46.50	25.00		0.740	2282.081
D	5.00	7.30	15.00	40.00	46.50	26.00		0.703	2058.499

Overview: Time Segment Results

Time Segment Results

Time Segment	Arm	Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Pedestrian Demand (Ped/hr)	Start Queue (Veh)	End Queue (Veh)	Queueing Total Delay (Veh-min)	Geometric Total Delay (Veh-min)	Average Delay Per Arriving Vehicle (min)
1	A	829.64	1891.77	0.439	0.00	0.00	0.78	11.34	(0.02)	0.056
1	В	647,45	1408.80	0.460	0.00	0.00	0.84	12.21	(0.02)	0.078
1	С	664.02	1862.18	0.357	0.00	0.00	0.55	8.09	(0.02)	0.050
1	D	123.47	1382.48	0.089	0.00	0.00	0.10	1.44	(0.02)	0.048
2	A	990.67	1845.20	0.537	0.00	0.78	1.15	16.78	(0.02)	0.070
2	В	773.12	1320.00	0.586	0.00	0.84	1.39	20.03	(0.02)	0.109
2	С	792.90	1819.93	0.436	0.00	0.55	0.77	11.28	(0.02)	0.058
2	D	147.43	1249.43	0.118	0.00	0.10	0.13	1.97	(0.02)	0.054
3	A	1213.32	1781.81	0.681	0.00	1.15	2.09	29.88	(0.02)	0.104
3	В	946.88	1199.69	0.789	0.00	1.39	3.50	47.27	(0.02)	0.223
3	С	971.10	1763.82	0.551	0.00	0.77	1.21	17.65	(0.02)	0.075
3	D	180.57	1069.65	0.169	0.00	0.13	0.20	2.98	(0.02)	0.067
4	A	1213.32	1781.19	0.681	0.00	2.09	2.11	31.56	(0.02)	0.106
4	в	946.88	1197.70	0.791	0.00	3.50	3.64	53.74	(0.02)	0.237
4	С	971.10	1761.56	0.551	0.00	1.21	1.22	18.26	(0.02)	0.076
4	D	180.57	1066.25	0.169	0.00	0.20	0.20	3.04	(0.02)	0.068
5	A	990.67	1844.27	0.537	0.00	2.11	1.17	18.15	(0.02)	0.071
5	В	773.12	1317.15	0.587	0.00	3.64	1.45	23.07	(0.02)	0.114
5	С	792.90	1816.80	0.436	0.00	1.22	0.78	11.97	(0.02)	0.059
5	D	147.43	1244.56	0.118	0.00	0.20	0.13	2.06	(0.02)	0.055
6	A	829.64	1890.67	0.439	0.00	1.17	0.79	12.07	(0.02)	0.057
6	В	647.45	1406.27	0.460	0.00	1.45	0.86	13.32	(0.02)	0.080
6	С	664.02	1860.44	0.357	0.00	0.78	0.56	8.51	(0.02)	0.050
6	D	123.47	1378.62	0.090	0.00	0.13	0.10	1.50	(0.02)	0.048







File: X:\Projects\110000\110116A - City Airport ESD\Modelling\ARCADY\Connaught Bridge Road Roundabout.arc7 Report generation date: 24/06/2013 11:44:07

« A1 - (Default Analysis Set) - D4 - 2021 Without Development, PW Pea	« A1 -	 (Default Analysis S 	et) - D4 - 2021	Without Dev	velopment, PM Pea
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- » Roundabout Network
- » Arms
- » Traffic Flows
- » Entry Flows
- » Direct/Resultant Flows
- » Turning Proportions
- » Vehicle Mix
- » Results
- » Overview: Standard Roundabout Geometry
- » Overview: Time Segment Results

File summary

File Description

Title	(untitled)
Location	
Site Number	
Date	17/01/2012
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	VECTOS\Robert.Roughan
Description	

Analysis Options

RFC Threshold	Vehicle Length (m)	Do Queue Variations
0.85	5.75	

Sorting and Display

Show Arm Names	Arm Grouping	Sorting Direction	Sorting Type	Data Matrix Style	Time Style
	Order	Ascending	Numerical	By Destination	Absolute Time

Units

Distance Units	Speed Units	Traffic Units Input	Traffic Units Results	Flow Units	Average Delay Units	Total Delay Units	Rate Of Delay Units
m	kph	Veh	Veh	perHour	min	-Min	perMin

A1 - (Default Analysis Set) - D4 - 2021 Without



Development, FIN Feak

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Description	Include In Report	Use Specific Demand Set	Demand Set	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
(Default Analysis Set)		Yes		(D1)		100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Locked	Run Automatically	Use Relationship	Relationship	Start Time (HH:mm)	Finish Time (HH:mm)	Time Period Length (min)	Time Segment Length (min)	Traffic Profile Type
2021 Without Development, PM Peak	2021 Without Development	PM Peak			Yes			16:45	18:15	90	15	ONE HOUR

Roundabout Network

Roundabout Type(s)

ID	Name	Arm Order	Roundabout Type	Grade Separated	Large Roundabout	Do Geometric Delay
1	Connaught Bridge Road/Connaught Road	A,B,C,D	Standard			

Roundabout Network Options

Driving Side	Lighting	Road Surface	In London
Left	Normal/unknown	((Mini-roundabouts only))	

Arms

Arms

ID	Name	Description
А	Connaught Bridge Road (N)	
в	Connaught Road (E)	
С	Connaught Bridge Road (South)	
D	Silvertown Quays	

Capacity Options

Arm	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
Α	0.00	99999.00		0.00
В	0.00	99999.00		0.00
С	0.00	99999.00		0.00
D	0.00	99999.00		0.00

Standard Geometry

Arm	V - Approach road half- width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only
A	7.30	7.50	1.00	20.00	46.50	24.50	
В	4.50	7.00	15.00	19.00	46.50	23.00	
С	7.30	7.50	1.00	19.00	46.50	25.00	
D	5.00	7.30	15.00	40.00	46.50	26.00	·



Pedestrian Crossings

Arm	Crossing Type
Α	None
В	None
С	None
D	None

Arm Slope/ Intercept and Capacity

Slope and Intercept used in model

Arm	Enter Directly	Slope	Intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
Α		((calculated))	((calculated))	0.743	2291.771
В		((calculated))	((calculated))	0.667	1897.860
С		((calculated))	((calculated))	0.740	2282.081
D		((calculated))	((calculated))	0.703	2058.499

The slope and intercept shown above include any corrections and adjustments.

Traffic Flows

Demand Set Data Options

Default Vehicle Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn	Vehicle Mix Varies Over Entry	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
		Yes	Yes	HV Percentages	2.00				Yes	Yes

Entry Flows

General Flows Data

Arm	Profile Type	Use Turning Counts	Average Demand Flow (Veh/hr)	Flow Scaling Factor (%)	PHF
Α	ONE HOUR	Yes	829.00	100.000	N/A
В	ONE HOUR	Yes	530.00	100.000	N/A
С	ONE HOUR	Yes	1449.00	100.000	N/A
D	ONE HOUR	Yes	159.00	100.000	N/A

Direct/Resultant Flows

Direct Flows Data

Time Segment	Arm	Direct Demand Entry Flow (Veh/hr)	DirectDemandEntryFlowInPCU (PCU/hr)	Direct Demand Exit Flow (Veh/hr)	Direct Demand Pedestrian Flow (Ped/hr)
1	A	624.11	646.42	N/A	N/A
1	В	399.01	409.43	N/A	N/A
1	С	1090.88	1148.36	N/A	N/A
1	D	119.70	119.70	N/A	N/A
2	A	745.25	771.88	N/A	N/A
2	В	476.46	488.90	N/A	N/A
2	С	1302.62	1371.25	N/A	N/A
2	D	142.94	142.94	N/A	N/A
3	A	912.75	945.36	N/A	N/A
3	В	583.54	598.78	N/A	N/A



3	C	1595.38	1679.44	N/A	N/A
3	D	175.06	175.06	N/A	N/A
4	A	912.75	945.36	N/A	N/A
4	В	583.54	598.78	N/A	N/A
4	С	1595.38	1679.44	N/A	N/A
4	D	175.06	175.06	N/A	N/A
5	A	745.25	771.88	N/A	N/A
5	В	476.46	488.90	N/A	N/A
5	С	1302.62	1371.25	N/A	N/A
5	D	142.94	142.94	N/A	N/A
6	A	624.11	646.42	N/A	N/A
6	В	399.01	409.43	N/A	N/A
6	С	1090.88	1148.36	N/A	N/A
6	D	119.70	119.70	N/A	N/A

Turning Proportions

Turning Counts or Proportions (Veh/hr) - Roundabout 1 (for whole period)

			То		
		A	В	С	D
	A	0.000	214.000	430.000	185.000
From	В	151.000	0.000	356.000	23.000
	С	888.000	550.000	0.000	11.000
	D	134.000	8.000	17.000	0.000

Turning Proportions (Veh) - Roundabout 1 (for whole period)

			То		
		A	В	С	D
	A	0.00	0.26	0.52	0.22
From	в	0.28	0.00	0.67	0.04
	С	0.61	0.38	0.00	0.01
	D	0.84	0.05	0.11	0.00

Vehicle Mix

Average PCU Per Vehicle - Roundabout 1 (for whole period)

			То		
		Α	В	С	D
	A	1.000	1.048	1.045	1.000
From	В	1.061	1.000	1.013	1.000
	С	1.042	1.071	1.000	1.000
	D	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Roundabout 1 (for whole period)

			То		
		Α	В	С	D
	Α	0.000	4.800	4.500	0.000
From	В	6.100	0.000	1.300	0.000
	С	4.200	7.100	0.000	0.000
	D	0.000	0.000	0.000	0.000



Results

Results Summary

Arm	Max RFC	Max Delay (min)	Max Queue (Veh)	Max LOS	Total Demand (Veh/hr)	Total Arrivals (Veh)	Total Queueing Delay (Veh- min)	Average Queueing Delay (min)	Rate Of Queueing Delay (Veh- min/min)	Inclusive Queueing Total Delay (Veh-min)	Inclusive Queueing Average Delay (min)	Slope	Intercept (PCU/hr)
Α	0.53	0.07	1.11	A	760.71	1141.06	68.55	0.06	0.76	68.55	0.06	0.743	2291.771
В	0.42	0.08	0.73	A	486.34	729.51	46.45	0.06	0.52	46.45	0.06	0.667	1897.860
С	0.85	0.21	5.31	В	1329.63	1994.44	246.65	0.12	2.74	246.68	0.12	0.740	2282.081
D	0.23	0.10	0.30	A	145.90	218.85	17.12	0.08	0.19	17.12	0.08	0.703	2058.499

Overview: Standard Roundabout Geometry

Standard Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only	Final Slope	Final Intercept (PCU/hr)
A	7.30	7.50	1.00	20.00	46.50	24.50		0.743	2291.771
В	4.50	7.00	15.00	19.00	46.50	23.00		0.667	1897.860
С	7.30	7.50	1.00	19.00	46.50	25.00		0.740	2282.081
D	5.00	7.30	15.00	40.00	46.50	26.00		0.703	2058.499

Overview: Time Segment Results

Time Segment Results

Time Segment	Arm	Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Pedestrian Demand (Ped/hr)	Start Queue (Veh)	End Queue (Veh)	Queueing Total Delay (Veh-min)	Geometric Total Delay (Veh-min)	Average Delay Per Arriving Vehicle (min)
1	A	624.12	1882.65	0.332	0.00	0.00	0.49	7.26	(0.02)	0.048
1	В	399.01	1531.69	0.261	0.00	0.00	0.35	5.15	(0.02)	0.053
1	С	1090.88	1973.73	0.553	0.00	0.00	1.22	17.72	(0.02)	0.067
1	D	119.70	1175.80	0.102	0.00	0.00	0.11	1.66	(0.02)	0.057
2	A	745.26	1817.78	0.410	0.00	0.49	0.69	10.17	(0.02)	0.056
2	В	476.46	1469.19	0.324	0.00	0.35	0.48	7.04	(0.02)	0.060
2	С	1302.62	1935.52	0.673	0.00	1.22	2.02	29.06	(0.02)	0.094
2	D	142.94	1002.27	0.143	0.00	0.11	0.17	2.44	(0.02)	0.070
3	A	912.75	1731.51	0.527	0.00	0.69	1.10	16.10	(0.02)	0.073
3	В	583.54	1384.06	0.422	0.00	0.48	0.72	10.59	(0.02)	0.075
3	С	1595.38	1883.50	0.847	0.00	2.02	5.11	68.37	(0.02)	0.192
3	D	175.06	771.18	0.227	0.00	0.17	0.29	4.26	(0.02)	0.100
4	A	912.75	1728.08	0.528	0.00	1.10	1.11	16.64	(0.02)	0.074
4	В	583.54	1383.22	0.422	0.00	0.72	0.73	10.88	(0.02)	0.075
4	С	1595.38	1883.01	0.847	0.00	5.11	5.31	78.51	(0.02)	0.207
4	D	175.06	762.47	0.230	0.00	0.29	0.30	4.42	(0.02)	0.102
5	A	745.26	1813.02	0.411	0.00	1.11	0.70	10.77	(0.02)	0.056
5	В	476.46	1467.93	0.325	0.00	0.73	0.48	7.40	(0.02)	0.061
5	С	1302.62	1934.78	0.673	0.00	5.31	2.10	33.66	(0.02)	0.099
5	D	142.94	990.16	0.144	0.00	0.30	0.17	2.60	(0.02)	0.071
6	A	624.12	1880.16	0.332	0.00	0.70	0.50	7.61	(0.02)	0.048
6	В	399.01	1530.26	0.261	0.00	0.48	0.35	5.40	(0.02)	0.053
6	С	1090.88	1972.83	0.553	0.00	2.10	1.25	19.33	(0.02)	0.069
6	D	119.70	1169.29	0.102	0.00	0.17	0.11	1.75	(0.02)	0.057







File: X:\Projects\110000\110116A - City Airport ESD\Modelling\ARCADY\Connaught Bridge Road Roundabout.arc7 Report generation date: 24/06/2013 11:44:55

« A1 - (D	Default A	Analysis S	iet)	- D5 -	2021 W	ith Dev	elopment,	AM Pe	ak
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- » Roundabout Network
- » Arms
- » Traffic Flows
- » Entry Flows
- » Direct/Resultant Flows
- » Turning Proportions
- » Vehicle Mix
- » Results
- » Overview: Standard Roundabout Geometry
- » Overview: Time Segment Results

File summary

File Description

Title	(untitled)
Location	
Site Number	
Date	17/01/2012
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	VECTOS\Robert.Roughan
Description	

Analysis Options

RFC Threshold	Vehicle Length (m)	Do Queue Variations
0.85	5.75	

Sorting and Display

Show Arm Names	Arm Grouping	Sorting Direction	Sorting Type	Data Matrix Style	Time Style
	Order	Ascending	Numerical	By Destination	Absolute Time

Units

Distance Units	Speed Units	Traffic Units Input	Traffic Units Results	Flow Units	Average Delay Units	Total Delay Units	Rate Of Delay Units
m	kph	Veh	Veh	perHour	min	-Min	perMin

A1 - (Default Analysis Set) - D5 - 2021 With



Development, All reak

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Description	Include In Report	Use Specific Demand Set	Demand Set	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
(Default Analysis Set)		Yes		(D1)		100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Locked	Run Automatically	Use Relationship	Relationship	Start Time (HH:mm)	Finish Time (HH:mm)	Time Period Length (min)	Time Segment Length (min)	Traffic Profile Type
2021 With Development, AM Peak	2021 With Development	AM Peak						07:45	09:15	90	15	ONE HOUR

Roundabout Network

Roundabout Type(s)

ID	Name	Arm Order	Roundabout Type	Grade Separated	Large Roundabout	Do Geometric Delay
1	Connaught Bridge Road/Connaught Road	A,B,C,D	Standard			

Roundabout Network Options

Driving Side	Lighting	Road Surface	In London
Left	Normal/unknown	((Mini-roundabouts only))	

Arms

Arms

ID	Name	Description
А	Connaught Bridge Road (N)	
в	Connaught Road (E)	
С	Connaught Bridge Road (South)	
D	Silvertown Quays	

Capacity Options

Arm	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
Α	0.00	99999.00		0.00
В	0.00	99999.00		0.00
С	0.00	99999.00		0.00
D	0.00	99999.00		0.00

Standard Geometry

Arm	V - Approach road half- width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only
A	7.30	7.50	1.00	20.00	46.50	24.50	
В	4.50	7.00	15.00	19.00	46.50	23.00	
С	7.30	7.50	1.00	19.00	46.50	25.00	
D	5.00	7.30	15.00	40.00	46.50	26.00	·



Pedestrian Crossings

Arm	Crossing Type
Α	None
В	None
С	None
D	None

Arm Slope/ Intercept and Capacity

Slope and Intercept used in model

Arm	Enter Directly	Slope	Intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
Α		((calculated))	((calculated))	0.743	2291.771
в		((calculated))	((calculated))	0.667	1897.860
С		((calculated))	((calculated))	0.740	2282.081
D		((calculated))	((calculated))	0.703	2058.499

The slope and intercept shown above include any corrections and adjustments.

Traffic Flows

Demand Set Data Options

Default Vehicle Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn	Vehicle Mix Varies Over Entry	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
		Yes	Yes	HV Percentages	2.00				Yes	Yes

Entry Flows

General Flows Data

Arm	Profile Type	Use Turning Counts	Average Demand Flow (Veh/hr)	Flow Scaling Factor (%)	PHF
Α	ONE HOUR	Yes	995.00	100.000	N/A
В	ONE HOUR	Yes	810.00	100.000	N/A
С	ONE HOUR	Yes	948.00	100.000	N/A
D	ONE HOUR	Yes	164.00	100.000	N/A

Direct/Resultant Flows

Direct Flows Data

Time Segment	Arm	Direct Demand Entry Flow (Veh/hr)	DirectDemandEntryFlowInPCU (PCU/hr)	Direct Demand Exit Flow (Veh/hr)	Direct Demand Pedestrian Flow (Ped/hr)
1	A	749.09	812.81	N/A	N/A
1	В	609.81	622.95	N/A	N/A
1	С	713.70	779.24	N/A	N/A
1	D	123.47	123.47	N/A	N/A
2	A	894.48	970.57	N/A	N/A
2	В	728.17	743.86	N/A	N/A
2	С	852.23	930.49	N/A	N/A
2	D	147.43	147.43	N/A	N/A
3	A	1095.52	1188.71	N/A	N/A
3	В	891.83	911.04	N/A	N/A



3	C	1043.77	1139.62	N/A	N/A
3	D	180.57	180.57	N/A	N/A
4	A	1095.52	1188.71	N/A	N/A
4	В	891.83	911.04	N/A	N/A
4	С	1043.77	1139.62	N/A	N/A
4	D	180.57	180.57	N/A	N/A
5	A	894.48	970.57	N/A	N/A
5	В	728.17	743.86	N/A	N/A
5	С	852.23	930.49	N/A	N/A
5	D	147.43	147.43	N/A	N/A
6	A	749.09	812.81	N/A	N/A
6	В	609.81	622.95	N/A	N/A
6	С	713.70	779.24	N/A	N/A
6	D	123.47	123.47	N/A	N/A

Turning Proportions

Turning Counts or Proportions (Veh/hr) - Roundabout 1 (for whole period)

			To		
		A	В	С	D
	A	0.000	148.000	752.000	95.000
From	В	147.000	0.000	651.000	12.000
	С	470.000	472.000	0.000	6.000
	D	138.000	17.000	9.000	0.000

Turning Proportions (Veh) - Roundabout 1 (for whole period)

			То		
		A	В	С	D
	A	0.00	0.15	0.76	0.10
From	В	0.18	0.00	0.80	0.01
	С	0.50	0.50	0.00	0.01
	D	0.84	0.10	0.05	0.00

Vehicle Mix

Average PCU Per Vehicle - Roundabout 1 (for whole period)

			To		
		Α	В	С	D
	A	1.000	1.140	1.085	1.000
From	В	1.070	1.000	1.011	1.000
	С	1.132	1.053	1.000	1.000
	D	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Roundabout 1 (for whole period)

			То		
		A	В	С	D
	Α	0.000	14.000	8.500	0.000
From	в	7.000	0.000	1.100	0.000
	С	13.200	5.300	0.000	0.000
	D	0.000	0.000	0.000	0.000



Results

Results Summary

Arm	Max RFC	Max Delay (min)	Max Queue (Veh)	Max LOS	Total Demand (Veh/hr)	Total Arrivals (Veh)	Total Queueing Delay (Veh- min)	Average Queueing Delay (min)	Rate Of Queueing Delay (Veh- min/min)	Inclusive Queueing Total Delay (Veh-min)	Inclusive Queueing Average Delay (min)	Slope	Intercept (PCU/hr)
Α	0.64	0.10	1.74	A	913.03	1369.54	101.53	0.07	1.13	101.54	0.07	0.743	2291.771
В	0.75	0.20	2.85	В	743.27	1114.91	141.06	0.13	1.57	141.07	0.13	0.667	1897.860
С	0.55	0.07	1.22	A	869.90	1304.85	77.03	0.06	0.86	77.04	0.06	0.740	2282.081
D	0.16	0.06	0.19	A	150.49	225.73	12.21	0.05	0.14	12.21	0.05	0.703	2058.499

Overview: Standard Roundabout Geometry

Standard Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only	Final Slope	Final Intercept (PCU/hr)
A	7.30	7.50	1.00	20.00	46.50	24.50		0.743	2291.771
В	4.50	7.00	15.00	19.00	46.50	23.00		0.667	1897.860
С	7.30	7.50	1.00	19.00	46.50	25.00		0.740	2282.081
D	5.00	7.30	15.00	40.00	46.50	26.00		0.703	2058.499

Overview: Time Segment Results

Time Segment Results

Time Segment	Arm	Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Pedestrian Demand (Ped/hr)	Start Queue (Veh)	End Queue (Veh)	Queueing Total Delay (Veh-min)	Geometric Total Delay (Veh-min)	Average Delay Per Arriving Vehicle (min)
1	A	749.08	1843.41	0.406	0.00	0.00	0.68	9.96	(0.02)	0.055
1	В	609.81	1407.09	0.433	0.00	0.00	0.76	11.01	(0.02)	0.075
1	С	713.70	1955.96	0.365	0.00	0.00	0.57	8.39	(0.02)	0.048
1	D	123.47	1432.55	0.086	0.00	0.00	0.09	1.39	(0.02)	0.046
2	A	894.48	1790.55	0.500	0.00	0.68	0.99	14.50	(0.02)	0.067
2	В	728.18	1318.39	0.552	0.00	0.76	1.22	17.60	(0.02)	0.101
2	С	852.23	1929.53	0.442	0.00	0.57	0.79	11.57	(0.02)	0.056
2	D	147.43	1309.38	0.113	0.00	0.09	0.13	1.87	(0.02)	0.052
3	A	1095.51	1718.54	0.637	0.00	0.99	1.73	24.89	(0.02)	0.095
3	В	891.83	1198.01	0.744	0.00	1.22	2.78	38.31	(0.02)	0.188
3	С	1043.77	1894.09	0.551	0.00	0.79	1.22	17.73	(0.02)	0.070
3	D	180.57	1142.07	0.158	0.00	0.13	0.19	2.76	(0.02)	0.062
4	A	1095.51	1717.90	0.638	0.00	1.73	1.74	26.08	(0.02)	0.096
4	В	891.83	1196.28	0.746	0.00	2.78	2.85	42.37	(0.02)	0.196
4	С	1043.77	1893.06	0.551	0.00	1.22	1.22	18.29	(0.02)	0.071
4	D	180.57	1139.97	0.158	0.00	0.19	0.19	2.81	(0.02)	0.063
5	A	894.48	1789.59	0.500	0.00	1.74	1.01	15.57	(0.02)	0.067
5	В	728.18	1315.87	0.553	0.00	2.85	1.26	19.83	(0.02)	0.104
5	С	852.23	1928.09	0.442	0.00	1.22	0.80	12.23	(0.02)	0.056
5	D	147.43	1306.30	0.113	0.00	0.19	0.13	1.94	(0.02)	0.052
6	A	749.08	1842.22	0.407	0.00	1.01	0.69	10.55	(0.02)	0.055
6	В	609.81	1404.69	0.434	0.00	1.26	0.77	11.94	(0.02)	0.076
6	С	713.70	1955.00	0.365	0.00	0.80	0.58	8.81	(0.02)	0.048
6	D	123.47	1429.45	0.086	0.00	0.13	0.09	1.44	(0.02)	0.046







File: X:\Projects\110000\110116A - City Airport ESD\Modelling\ARCADY\Connaught Bridge Road Roundabout.arc7 Report generation date: 24/06/2013 11:46:23

« A1 - (Default Ana	alysis Set)	- D6 - 20	021 With I	Development,	PM Peak
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- » Roundabout Network
- » Arms
- » Traffic Flows
- » Entry Flows
- » Direct/Resultant Flows
- » Turning Proportions
- » Vehicle Mix
- » Results
- » Overview: Standard Roundabout Geometry
- » Overview: Time Segment Results

File summary

File Description

Title	(untitled)
Location	
Site Number	
Date	17/01/2012
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	VECTOS\Robert.Roughan
Description	

Analysis Options

RFC Threshold	Vehicle Length (m)	Do Queue Variations
0.85	5.75	

Sorting and Display

Show Arm Names	Arm Grouping	Sorting Direction	Sorting Type	Data Matrix Style	Time Style	
	Order	Ascending	Numerical	By Destination	Absolute Time	

Units

Distance Units	Speed Units	Traffic Units Input	Traffic Units Results	Flow Units	Average Delay Units	Total Delay Units	Rate Of Delay Units
m	kph	Veh	Veh	perHour	min	-Min	perMin

A1 - (Default Analysis Set) - D6 - 2021 With



Development, FIN Feak

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Description	Include In Report	Use Specific Demand Set	Demand Set	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
(Default Analysis Set)		Yes		(D1)		100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Locked	Run Automatically	Use Relationship	Relationship	Start Time (HH:mm)	Finish Time (HH:mm)	Time Period Length (min)	Time Segment Length (min)	Traffic Profile Type
2021 With Development, PM Peak	2021 With Development	PM Peak			Yes			16:45	18:15	90	15	ONE HOUR

Roundabout Network

Roundabout Type(s)

ID	Name	Arm Order	Roundabout Type	Grade Separated	Large Roundabout	Do Geometric Delay
1	Connaught Bridge Road/Connaught Road	A,B,C,D	Standard			

Roundabout Network Options

Driving Side	Lighting	Road Surface	In London
Left	Normal/unknown	((Mini-roundabouts only))	

Arms

Arms

ID	Name	Description
А	Connaught Bridge Road (N)	
в	Connaught Road (E)	
С	Connaught Bridge Road (South)	
D	Silvertown Quays	

Capacity Options

Arm	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
Α	0.00	99999.00		0.00
В	0.00	99999.00		0.00
С	0.00	99999.00		0.00
D	0.00	99999.00		0.00

Standard Geometry

Arm	V - Approach road half- width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only
A	7.30	7.50	1.00	20.00	46.50	24.50	
В	4.50	7.00	15.00	19.00	46.50	23.00	
С	7.30	7.50	1.00	19.00	46.50	25.00	
D	5.00	7.30	15.00	40.00	46.50	26.00	


Arm	Crossing Type
Α	None
В	None
С	None
D	None

Arm Slope/ Intercept and Capacity

Slope and Intercept used in model

Arm	Enter Directly	Slope	Intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
Α		((calculated))	((calculated))	0.743	2291.771
в		((calculated))	((calculated))	0.667	1897.860
С		((calculated))	((calculated))	0.740	2282.081
D		((calculated))	((calculated))	0.703	2058.499

The slope and intercept shown above include any corrections and adjustments.

Traffic Flows

Demand Set Data Options

Default Vehicle Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn	Vehicle Mix Varies Over Entry	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
		Yes	Yes	HV Percentages	2.00				Yes	Yes

Entry Flows

General Flows Data

Arm	Profile Type	Use Turning Counts	Average Demand Flow (Veh/hr)	Flow Scaling Factor (%)	PHF
Α	ONE HOUR	Yes	509.00	100.000	N/A
В	ONE HOUR	Yes	449.00	100.000	N/A
С	ONE HOUR	Yes	1590.00	100.000	N/A
D	ONE HOUR	Yes	159.00	100.000	N/A

Direct/Resultant Flows

Time Segment	Arm	Direct Demand Entry Flow (Veh/hr)	DirectDemandEntryFlowInPCU (PCU/hr)	Direct Demand Exit Flow (Veh/hr)	Direct Demand Pedestrian Flow (Ped/hr)
1	A	383.20	405.74	N/A	N/A
1	В	338.03	348.35	N/A	N/A
1	С	1197.04	1254.25	N/A	N/A
1	D	119.70	119.70	N/A	N/A
2	A	457.58	484.49	N/A	N/A
2	В	403.64	415.97	N/A	N/A
2	С	1429.38	1497.69	N/A	N/A
2	D	142.94	142.94	N/A	N/A
3	A	560.42	593.38	N/A	N/A
3	В	494.36	509.46	N/A	N/A



3	C	1750.62	1834.29	N/A	N/A
3	D	175.06	175.06	N/A	N/A
4	A	560.42	593.38	N/A	N/A
4	В	494.36	509.46	N/A	N/A
4	С	1750.62	1834.29	N/A	N/A
4	D	175.06	175.06	N/A	N/A
5	A	457.58	484.49	N/A	N/A
5	В	403.64	415.97	N/A	N/A
5	С	1429.38	1497.69	N/A	N/A
5	D	142.94	142.94	N/A	N/A
6	A	383.20	405.74	N/A	N/A
6	В	338.03	348.35	N/A	N/A
6	С	1197.04	1254.25	N/A	N/A
6	D	119.70	119.70	N/A	N/A

Turning Counts or Proportions (Veh/hr) - Roundabout 1 (for whole period)

			То			
		A	В	С	D	
	A	0.000	79.000	430.000	0.000	
From	в	50.000	0.000	376.000	23.000	
	С	888.000	691.000	0.000	11.000	
	D	134.000	8.000	17.000	0.000	

Turning Proportions (Veh) - Roundabout 1 (for whole period)

			То		
		A	В	С	D
	A	0.00	0.16	0.84	0.00
From	В	0.11	0.00	0.84	0.05
	С	0.56	0.43	0.00	0.01
	D	0.84	0.05	0.11	0.00

Vehicle Mix

Average PCU Per Vehicle - Roundabout 1 (for whole period)

	То							
		A	В	С	D			
	A	1.000	1.134	1.045	1.000			
From	в	1.184	1.000	1.012	1.000			
	С	1.042	1.056	1.000	1.000			
	D	1.000	1.000	1.000	1.000			

	То									
		A	В	С	D					
	Α	0.000	13.400	4.500	0.000					
From	в	18.400	0.000	1.200	0.000					
	С	4.200	5.600	0.000	0.000					
	D	0.000	0.000	0.000	0.000					



Results Summary

Arm	Max RFC	Max Delay (min)	Max Queue (Veh)	Max	Total Demand (Veh/hr)	Total Arrivals (Veh)	Total Queueing Delay (Veh- min)	Average Queueing Delay (min)	Rate Of Queueing Delay (Veh- min/min)	Inclusive Queueing Total Delay (Veh-min)	Inclusive Queueing Average Delay (min)	Slope	Intercept (PCU/hr)
Α	0.35	0.06	0.55	A	467.07	700.60	35.67	0.05	0.40	35.67	0.05	0.743	2291.771
В	0.33	0.06	0.49	A	412.01	618.01	32.73	0.05	0.36	32.74	0.05	0.667	1897.860
С	0.83	0.16	4.67	A	1459.02	2188.53	231.83	0.11	2.58	231.85	0.11	0.740	2282.081
D	0.24	0.11	0.31	A	145.90	218.85	17.82	0.08	0.20	17.82	0.08	0.703	2058.499

Overview: Standard Roundabout Geometry

Standard Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	I" - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only	Final Slope	Final Intercept (PCU/hr)
A	7.30	7.50	1.00	20.00	46.50	24.50		0.743	2291.771
В	4.50	7.00	15.00	19.00	46.50	23.00		0.667	1897.860
С	7.30	7.50	1.00	19.00	46.50	25.00		0.740	2282.081
D	5.00	7.30	15.00	40.00	46.50	26.00		0.703	2058.499

Overview: Time Segment Results

Time Segment	Arm	Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Pedestrian Demand (Ped/hr)	Start Queue (Veh)	End Queue (Veh)	Queueing Total Delay (Veh-min)	Geometric Total Delay (Veh-min)	Average Delay Per Arriving Vehicle (min)
1	A	383.20	1767.56	0.217	0.00	0.00	0.28	4.07	(0.02)	0.043
1	В	338.03	1614.95	0.209	0.00	0.00	0.26	3.89	(0.02)	0.047
1	С	1197.04	2134.45	0.561	0.00	0.00	1.26	18.34	(0.02)	0.063
1	D	119.70	1154.72	0.104	0.00	0.00	0.12	1.69	(0.02)	0.058
2	A	457.58	1689.51	0.271	0.00	0.28	0.37	5.47	(0.02)	0.049
2	в	403.64	1570.39	0.257	0.00	0.26	0.34	5.09	(0.02)	0.051
2	С	1429.38	2125.87	0.672	0.00	1.26	2.02	29.12	(0.02)	0.085
2	D	142.94	976.99	0.146	0.00	0.12	0.17	2.51	(0.02)	0.072
3	A	560.42	1584.86	0.354	0.00	0.37	0.54	8.01	(0.02)	0.059
3	в	494.36	1509.58	0.327	0.00	0.34	0.48	7.14	(0.02)	0.059
3	С	1750.63	2114.18	0.828	0.00	2.02	4.54	62.08	(0.02)	0.156
3	D	175.06	738.64	0.237	0.00	0.17	0.31	4.49	(0.02)	0.106
4	A	560.42	1581.72	0.354	0.00	0.54	0.55	8.19	(0.02)	0.059
4	в	494.36	1509.16	0.328	0.00	0.48	0.49	7.28	(0.02)	0.059
4	С	1750.63	2114.11	0.828	0.00	4.54	4.67	69.32	(0.02)	0.164
4	D	175.06	731.57	0.239	0.00	0.31	0.31	4.67	(0.02)	0.108
5	A	457.58	1685.13	0.272	0.00	0.55	0.37	5.71	(0.02)	0.049
5	В	403.64	1569.73	0.257	0.00	0.49	0.35	5.30	(0.02)	0.051
5	С	1429.38	2125.76	0.672	0.00	4.67	2.09	33.05	(0.02)	0.089
5	D	142.94	967.14	0.148	0.00	0.31	0.17	2.67	(0.02)	0.073
6	A	383.20	1764.83	0.217	0.00	0.37	0.28	4.23	(0.02)	0.043
6	В	338.03	1614.05	0.209	0.00	0.35	0.27	4.04	(0.02)	0.047
6	С	1197.04	2134.27	0.561	0.00	2.09	1.29	19.92	(0.02)	0.064
6	D	119.70	1148.55	0.104	0.00	0.17	0.12	1.78	(0.02)	0.058







File: X:\Projects\110000\110116A - City Airport ESD\Modelling\ARCADY\Connaught Bridge Road Roundabout.arc7 Report generation date: 24/06/2013 11:46:51

« A1 - (E	Default A	nalysis Se	et) - D7 -	2023 Without	Development, AM	Peak
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- » Roundabout Network
- » Arms
- » Traffic Flows
- » Entry Flows
- » Direct/Resultant Flows
- » Turning Proportions
- » Vehicle Mix
- » Results
- » Overview: Standard Roundabout Geometry
- » Overview: Time Segment Results

File summary

File Description

Title	(untitled)
Location	
Site Number	
Date	17/01/2012
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	VECTOS\Robert.Roughan
Description	

Analysis Options

RFC Threshold	Vehicle Length (m)	Do Queue Variations
0.85	5.75	

Sorting and Display

Show Arm Names	Arm Grouping	Sorting Direction	Sorting Type	Data Matrix Style	Time Style
	Order	Ascending	Numerical	By Destination	Absolute Time

Units

Distance Units	Speed Units	Traffic Units Input	Traffic Units Results	Flow Units	Average Delay Units	Total Delay Units	Rate Of Delay Units
m	kph	Veh	Veh	perHour	min	-Min	perMin

A1 - (Default Analysis Set) - D7 - 2023 Without



Development, All reak

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Description	Include In Report	Use Specific Demand Set	Demand Set	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
(Default Analysis Set)		Yes		(D1)		100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Locked	Run Automatically	Use Relationship	Relationship	Start Time (HH:mm)	Finish Time (HH:mm)	Time Period Length (min)	Time Segment Length (min)	Traffic Profile Type
2023 Without Development, AM Peak	2023 Without Development	AM Peak						07:45	09:15	90	15	ONE HOUR

Roundabout Network

Roundabout Type(s)

ID	Name	Arm Order	Roundabout Type	Grade Separated	Large Roundabout	Do Geometric Delay
1	Connaught Bridge Road/Connaught Road	A,B,C,D	Standard			

Roundabout Network Options

Driving Side	Lighting	Road Surface	In London
Left	Normal/unknown	((Mini-roundabouts only))	

Arms

Arms

ID	Name	Description
А	Connaught Bridge Road (N)	
в	Connaught Road (E)	
С	Connaught Bridge Road (South)	
D	Silvertown Quays	

Capacity Options

Arm	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
Α	0.00	99999.00		0.00
В	0.00	99999.00		0.00
С	0.00	99999.00		0.00
D	0.00	99999.00		0.00

Arm	V - Approach road half- width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only
A	7.30	7.50	1.00	20.00	46.50	24.50	
В	4.50	7.00	15.00	19.00	46.50	23.00	
С	7.30	7.50	1.00	19.00	46.50	25.00	
D	5.00	7.30	15.00	40.00	46.50	26.00	i



Arm	Crossing Type
Α	None
В	None
С	None
D	None

Arm Slope/ Intercept and Capacity

Slope and Intercept used in model

Arm	Enter Directly	Slope	Intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
Α		((calculated))	((calculated))	0.743	2291.771
В		((calculated))	((calculated))	0.667	1897.860
С		((calculated))	((calculated))	0.740	2282.081
D		((calculated))	((calculated))	0.703	2058.499

The slope and intercept shown above include any corrections and adjustments.

Traffic Flows

Demand Set Data Options

Default Vehicle Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn	Vehicle Mix Varies Over Entry	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
		Yes	Yes	HV Percentages	2.00				Yes	Yes

Entry Flows

General Flows Data

Arm	Profile Type	Use Turning Counts	Average Demand Flow (Veh/hr)	Flow Scaling Factor (%)	PHF
Α	ONE HOUR	Yes	1127.00	100.000	N/A
В	ONE HOUR	Yes	865.00	100.000	N/A
С	ONE HOUR	Yes	902.00	100.000	N/A
D	ONE HOUR	Yes	164.00	100.000	N/A

Direct/Resultant Flows

Time Segment	Arm	Direct Demand Entry Flow (Veh/hr)	DirectDemandEntryFlowInPCU (PCU/hr)	Direct Demand Exit Flow (Veh/hr)	Direct Demand Pedestrian Flow (Ped/hr)
1	A	848.46	914.70	N/A	N/A
1	В	651.22	664.65	N/A	N/A
1	С	679.07	747.39	N/A	N/A
1	D	123.47	123.47	N/A	N/A
2	A	1013.15	1092.24	N/A	N/A
2	В	777.62	793.66	N/A	N/A
2	С	810.88	892.45	N/A	N/A
2	D	147.43	147.43	N/A	N/A
3	A	1240.85	1337.72	N/A	N/A
3	В	952.38	972.03	N/A	N/A



3	C	993.12	1093.03	N/A	N/A
3	D	180.57	180.57	N/A	N/A
4	A	1240.85	1337.72	N/A	N/A
4	В	952.38	972.03	N/A	N/A
4	С	993.12	1093.03	N/A	N/A
4	D	180.57	180.57	N/A	N/A
5	A	1013.15	1092.24	N/A	N/A
5	В	777.62	793.66	N/A	N/A
5	C	810.88	892.45	N/A	N/A
5	D	147.43	147.43	N/A	N/A
6	A	848.46	914.70	N/A	N/A
6	В	651.22	664.65	N/A	N/A
6	С	679.07	747.39	N/A	N/A
6	D	123.47	123.47	N/A	N/A

Turning Counts or Proportions (Veh/hr) - Roundabout 1 (for whole period)

	То								
		A	В	С	D				
	A	0.000	257.000	775.000	95.000				
From	в	307.000	0.000	546.000	12.000				
	С	484.000	412.000	0.000	6.000				
	D	138.000	17.000	9.000	0.000				

Turning Proportions (Veh) - Roundabout 1 (for whole period)

		То								
		Α	В	С	D 0.08					
From	A	0.00	0.23	0.69						
From	в	0.35	0.00	0.63	0.01					
	С	0.54	0.46	0.00	0.01					
	D	0.84	0.10	0.05	0.00					

Vehicle Mix

Average PCU Per Vehicle - Roundabout 1 (for whole period)

	То								
		Α	В	С	D				
	A	1.000	1.083	1.086	1.000				
From	В	1.035	1.000	1.013	1.000				
	С	1.133	1.064	1.000	1.000				
	D	1.000	1.000	1.000	1.000				

	То								
		A	В	С	D				
	Α	0.000	8.300	8.600	0.000				
From	в	3.500	0.000	1.300	0.000				
	С	13.300	6.400	0.000	0.000				
	D	0.000	0.000	0.000	0.000				



Results Summary

Arm	Max RFC	Max Delay (min)	Max Queue (Veh)	Max LOS	Total Demand (Veh/hr)	Total Arrivals (Veh)	Total Queueing Delay (Veh- min)	Average Queueing Delay (min)	Rate Of Queueing Delay (Veh- min/min)	Inclusive Queueing Total Delay (Veh-min)	Inclusive Queueing Average Delay (min)	Slope	Intercept (PCU/hr)
Α	0.70	0.11	2.30	A	1034.15	1551.23	128.19	0.08	1.42	128.21	0.08	0.743	2291.771
В	0.81	0.26	4.02	C	793.74	1190.61	182.01	0.15	2.02	182.03	0.15	0.667	1897.860
С	0.56	0.08	1.29	A	827.69	1241.53	79.33	0.06	0.88	79.34	0.06	0.740	2282.081
D	0.17	0.07	0.21	A	150.49	225.73	13.19	0.06	0.15	13.19	0.06	0.703	2058.499

Overview: Standard Roundabout Geometry

Standard Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only	Final Slope	Final Intercept (PCU/hr)
A	7.30	7.50	1.00	20.00	46.50	24.50		0.743	2291.771
В	4.50	7.00	15.00	19.00	46.50	23.00		0.667	1897.860
С	7.30	7.50	1.00	19.00	46.50	25.00		0.740	2282.081
D	5.00	7.30	15.00	40.00	46.50	26.00		0.703	2058.499

Overview: Time Segment Results

Time Segment	Arm	Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Pedestrian Demand (Ped/hr)	Start Queue (Veh)	End Queue (Veh)	Queueing Total Delay (Veh-min)	Geometric Total Delay (Veh-min)	Average Delay Per Arriving Vehicle (min)
1	A	848.46	1885.74	0.450	0.00	0.00	0.81	11.86	(0.02)	0.058
1	В	651.22	1395.82	0.467	0.00	0.00	0.87	12.54	(0.02)	0.080
1	С	679.07	1859.66	0.365	0.00	0.00	0.57	8.40	(0.02)	0.051
1	D	123.47	1370.49	0.090	0.00	0.00	0.10	1.46	(0.02)	0.048
2	A	1013.15	1838.50	0.551	0.00	0.81	1.21	17.73	(0.02)	0.072
2	В	777.62	1304.58	0.596	0.00	0.87	1.45	20.85	(0.02)	0.113
2	С	810.88	1817.57	0.446	0.00	0.57	0.80	11.76	(0.02)	0.059
2	D	147.43	1235.09	0.119	0.00	0.10	0.13	2.00	(0.02)	0.055
3	A	1240.85	1774.21	0.699	0.00	1.21	2.27	32.34	(0.02)	0.111
3	в	952.38	1181.09	0.806	0.00	1.45	3.85	51.33	(0.02)	0.243
3	С	993.12	1761.90	0.564	0.00	0.80	1.28	18.58	(0.02)	0.078
3	D	180.57	1052.38	0.172	0.00	0.13	0.21	3.04	(0.02)	0.069
4	A	1240.85	1773.55	0.700	0.00	2.27	2.30	34.34	(0.02)	0.113
4	В	952.38	1178.85	0.808	0.00	3.85	4.02	59.27	(0.02)	0.262
4	С	993.12	1759.39	0.564	0.00	1.28	1.29	19.25	(0.02)	0.078
4	D	180.57	1048.64	0.172	0.00	0.21	0.21	3.10	(0.02)	0.069
5	A	1013.15	1837.52	0.551	0.00	2.30	1.24	19.27	(0.02)	0.074
5	В	777.62	1301.39	0.598	0.00	4.02	1.51	24.30	(0.02)	0.119
5	С	810.88	1814.07	0.447	0.00	1.29	0.81	12.50	(0.02)	0.060
5	D	147.43	1229.73	0.120	0.00	0.21	0.14	2.08	(0.02)	0.055
6	A	848.46	1884.60	0.450	0.00	1.24	0.82	12.65	(0.02)	0.058
6	в	651.22	1393.13	0.467	0.00	1.51	0.89	13.72	(0.02)	0.081
6	С	679.07	1857.85	0.366	0.00	0.81	0.58	8.84	(0.02)	0.051
6	D	123.47	1366.47	0.090	0.00	0.14	0.10	1.51	(0.02)	0.048







File: X:\Projects\110000\110116A - City Airport ESD\Modelling\ARCADY\Connaught Bridge Road Roundabout.arc7 Report generation date: 24/06/2013 11:47:35

« A1 - (Default Analysis Set) - D8 - 2023 Without	Development, PM Peak
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- » Roundabout Network
- » Arms
- » Traffic Flows
- » Entry Flows
- » Direct/Resultant Flows
- » Turning Proportions
- » Vehicle Mix
- » Results
- » Overview: Standard Roundabout Geometry
- » Overview: Time Segment Results

File summary

File Description

Title	(untitled)
Location	
Site Number	
Date	17/01/2012
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	VECTOS\Robert.Roughan
Description	

Analysis Options

RFC Threshold	Vehicle Length (m)	Do Queue Variations
0.85	5.75	

Sorting and Display

Show Arm Names	Arm Grouping	Sorting Direction	Sorting Type	Data Matrix Style	Time Style
	Order	Ascending	Numerical	By Destination	Absolute Time

Units

Distance Units	Speed Units	Traffic Units Input	Traffic Units Results	Flow Units	Average Delay Units	Total Delay Units	Rate Of Delay Units
m	kph	Veh	Veh	perHour	min	-Min	perMin

A1 - (Default Analysis Set) - D8 - 2023 Without



Development, FIN Feak

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Description	Include In Report	Use Specific Demand Set	Demand Set	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
(Default Analysis Set)		Yes		(D1)		100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Locked	Run Automatically	Use Relationship	Relationship	Start Time (HH:mm)	Finish Time (HH:mm)	Time Period Length (min)	Time Segment Length (min)	Traffic Profile Type
2023 Without Development, PM Peak	2023 Without Development	PM Peak			Yes			16:45	18:15	90	15	ONE HOUR

Roundabout Network

Roundabout Type(s)

ID	Name	Arm Order	Roundabout Type	Grade Separated	Large Roundabout	Do Geometric Delay
1	Connaught Bridge Road/Connaught Road	A,B,C,D	Standard			

Roundabout Network Options

Driving Side	Lighting	Road Surface	In London
Left	Normal/unknown	((Mini-roundabouts only))	

Arms

Arms

ID	Name	Description
А	Connaught Bridge Road (N)	
в	Connaught Road (E)	
С	Connaught Bridge Road (South)	
D	Silvertown Quays	

Capacity Options

Arm	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
Α	0.00	99999.00		0.00
В	0.00	99999.00		0.00
С	0.00	99999.00		0.00
D	0.00	99999.00		0.00

Arm	V - Approach road half- width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only
A	7.30	7.50	1.00	20.00	46.50	24.50	
В	4.50	7.00	15.00	19.00	46.50	23.00	
С	7.30	7.50	1.00	19.00	46.50	25.00	
D	5.00	7.30	15.00	40.00	46.50	26.00	



Arm	Crossing Type
Α	None
В	None
С	None
D	None

Arm Slope/ Intercept and Capacity

Slope and Intercept used in model

Arm	Enter Directly	Slope	Intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
Α		((calculated))	((calculated))	0.743	2291.771
В		((calculated))	((calculated))	0.667	1897.860
С		((calculated))	((calculated))	0.740	2282.081
D		((calculated))	((calculated))	0.703	2058.499

The slope and intercept shown above include any corrections and adjustments.

Traffic Flows

Demand Set Data Options

Default Vehicle Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn	Vehicle Mix Varies Over Entry	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
		Yes	Yes	HV Percentages	2.00			1	Yes	Yes

Entry Flows

General Flows Data

Arm	Profile Type	Use Turning Counts	Average Demand Flow (Veh/hr)	Flow Scaling Factor (%)	PHF
Α	ONE HOUR	Yes	843.00	100.000	N/A
В	ONE HOUR	Yes	534.00	100.000	N/A
С	ONE HOUR	Yes	1492.00	100.000	N/A
D	ONE HOUR	Yes	159.00	100.000	N/A

Direct/Resultant Flows

Time Segment	Arm	Direct Demand Entry Flow (Veh/hr)	DirectDemandEntryFlowInPCU (PCU/hr)	Direct Demand Exit Flow (Veh/hr)	Direct Demand Pedestrian Flow (Ped/hr)
1	A	634.65	658.09	N/A	N/A
1	В	402.02	412.67	N/A	N/A
1	С	1123.26	1183.07	N/A	N/A
1	D	119.70	119.70	N/A	N/A
2	A	757.84	785.82	N/A	N/A
2	В	480.06	492.77	N/A	N/A
2	С	1341.28	1412.70	N/A	N/A
2	D	142.94	142.94	N/A	N/A
3	A	928.16	962.43	N/A	N/A
3	В	587.94	603.52	N/A	N/A



3	C	1642.72	1730.20	N/A	N/A
3	D	175.06	175.06	N/A	N/A
4	A	928.16	962.43	N/A	N/A
4	В	587.94	603.52	N/A	N/A
4	С	1642.72	1730.20	N/A	N/A
4	D	175.06	175.06	N/A	N/A
5	A	757.84	785.82	N/A	N/A
5	В	480.06	492.77	N/A	N/A
5	C	1341.28	1412.70	N/A	N/A
5	D	142.94	142.94	N/A	N/A
6	A	634.65	658.09	N/A	N/A
6	В	402.02	412.67	N/A	N/A
6	С	1123.26	1183.07	N/A	N/A
6	D	119.70	119.70	N/A	N/A

Turning Counts or Proportions (Veh/hr) - Roundabout 1 (for whole period)

	То									
		A	В	С	D					
	A	0.000	215.000	443.000	185.000					
From	в	150.000	0.000	361.000	23.000					
	С	918.000	563.000	0.000	11.000					
	D	134.000	8.000	17.000	0.000					

Turning Proportions (Veh) - Roundabout 1 (for whole period)

	То						
		A	В	С	D		
	Α	0.00	0.26	0.53	0.22		
From	в	0.28	0.00	0.68	0.04		
	С	0.62	0.38	0.00	0.01		
	D	0.84	0.05	0.11	0.00		

Vehicle Mix

Average PCU Per Vehicle - Roundabout 1 (for whole period)

	То							
		A	В	С	D			
	A	1.000	1.050	1.046	1.000			
From	В	1.063	1.000	1.013	1.000			
	С	1.043	1.071	1.000	1.000			
	D	1.000	1.000	1.000	1.000			

	То							
		Α	В	С	D			
	A	0.000	5.000	4.600	0.000			
From	В	6.300	0.000	1.300	0.000			
	С	4.300	7.100	0.000	0.000			
	D	0.000	0.000	0.000	0.000			



Results Summary

Arm	Max RFC	Max Delay (min)	Max Queue (Veh)	Max LOS	Total Demand (Veh/hr)	Total Arrivals (Veh)	Total Queueing Delay (Veh- min)	Average Queueing Delay (min)	Rate Of Queueing Delay (Veh- min/min)	Inclusive Queueing Total Delay (Veh-min)	Inclusive Queueing Average Delay (min)	Slope	Intercept (PCU/hr)
Α	0.54	0.08	1.17	A	773.55	1160.32	71.57	0.06	0.80	71.58	0.06	0.743	2291.771
В	0.43	0.08	0.75	A	490.01	735.01	47.48	0.06	0.53	47.48	0.06	0.667	1897.860
С	0.87	0.25	6.45	В	1369.08	2053.63	283.81	0.14	3.15	283.84	0.14	0.740	2282.081
D	0.24	0.11	0.31	A	145.90	218.85	17.89	0.08	0.20	17.89	0.08	0.703	2058.499

Overview: Standard Roundabout Geometry

Standard Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only	Final Slope	Final Intercept (PCU/hr)
A	7.30	7.50	1.00	20.00	46.50	24.50		0.743	2291.771
В	4.50	7.00	15.00	19.00	46.50	23.00		0.667	1897.860
С	7.30	7.50	1.00	19.00	46.50	25.00		0.740	2282.081
D	5.00	7.30	15.00	40.00	46.50	26.00		0.703	2058.499

Overview: Time Segment Results

Time Segment	Arm	Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Pedestrian Demand (Ped/hr)	Start Queue (Veh)	End Queue (Veh)	Queueing Total Delay (Veh-min)	Geometric Total Delay (Veh-min)	Average Delay Per Arriving Vehicle (min)
1	A	634.65	1873.05	0.339	0.00	0.00	0.51	7.49	(0.02)	0.048
1	В	402.02	1524.30	0.264	0.00	0.00	0.36	5.24	(0.02)	0.053
1	С	1123.25	1973.09	0.569	0.00	0.00	1.31	18.91	(0.02)	0.070
1	D	119.70	1152.04	0.104	0.00	0.00	0.12	1.70	(0.02)	0.058
2	A	757.84	1806.83	0.419	0.00	0.51	0.72	10.57	(0.02)	0.057
2	В	480.05	1460.47	0.329	0.00	0.36	0.49	7.17	(0.02)	0.061
2	С	1341.28	1934.98	0.693	0.00	1.31	2.21	31.69	(0.02)	0.100
2	D	142.94	973.92	0.147	0.00	0.12	0.17	2.52	(0.02)	0.072
3	A	928,16	1719.46	0.540	0.00	0.72	1.16	16.91	(0.02)	0.075
3	в	587.94	1373.58	0.428	0.00	0.49	0.74	10.86	(0.02)	0.076
3	С	1642.72	1883.11	0.872	0.00	2.21	6.13	80.04	(0.02)	0.222
3	D	175.06	738.50	0.237	0.00	0.17	0.31	4.49	(0.02)	0.106
4	A	928.16	1715.24	0.541	0.00	1,16	1.17	17.51	(0.02)	0.076
4	в	587.94	1372.68	0.428	0.00	0.74	0.75	11.16	(0.02)	0.076
4	С	1642.72	1882.60	0.873	0.00	6.13	6.45	94.78	(0.02)	0.245
4	D	175.06	727.73	0.241	0.00	0.31	0.31	4.69	(0.02)	0.109
5	A	757.84	1800.90	0.421	0.00	1.17	0.73	11.22	(0.02)	0.058
5	в	480.05	1459.12	0.329	0.00	0.75	0.49	7.55	(0.02)	0.061
5	С	1341.28	1934.21	0.693	0.00	6.45	2.31	37.65	(0.02)	0.107
5	D	142.94	958.77	0.149	0.00	0.31	0.18	2.70	(0.02)	0.074
6	A	634.65	1870.33	0.339	0.00	0.73	0.52	7.87	(0.02)	0.049
6	В	402.02	1522.80	0.264	0.00	0.49	0.36	5.49	(0.02)	0.054
6	С	1123.25	1972.18	0.570	0.00	2.31	1.34	20.73	(0.02)	0.071
6	D	119.70	1144.92	0.105	0.00	0.18	0.12	1.79	(0.02)	0.059







File: X:\Projects\110000\110116A - City Airport ESD\Modelling\ARCADY\Connaught Bridge Road Roundabout.arc7 Report generation date: 24/06/2013 11:48:02

« A1 -	(Default /	Analysis :	Set) -	D9 -	2023 With	Development,	AM Peak
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- » Roundabout Network
- » Arms
- » Traffic Flows
- » Entry Flows
- » Direct/Resultant Flows
- » Turning Proportions
- » Vehicle Mix
- » Results
- » Overview: Standard Roundabout Geometry
- » Overview: Time Segment Results

File summary

File Description

Title	(untitled)
Location	
Site Number	
Date	17/01/2012
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	VECTOS\Robert.Roughan
Description	

Analysis Options

RFC Threshold	Vehicle Length (m)	Do Queue Variations
0.85	5.75	

Sorting and Display

Show Arm Names	Arm Grouping	Sorting Direction	Sorting Type	Data Matrix Style	Time Style	
	Order	Ascending	Numerical	By Destination	Absolute Time	

Units

Distance Units	Speed Units	Traffic Units Input	Traffic Units Results	Flow Units	Average Delay Units	Total Delay Units	Rate Of Delay Units
m	kph	Veh	Veh	perHour	min	-Min	perMin

A1 - (Default Analysis Set) - D9 - 2023 With



Development, All reak

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Description	Include In Report	Use Specific Demand Set	Demand Set	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
(Default Analysis Set)		Yes		(D1)		100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Locked	Run Automatically	Use Relationship	Relationship	Start Time (HH:mm)	Finish Time (HH:mm)	Time Period Length (min)	Time Segment Length (min)	Traffic Profile Type
2023 With Development, AM Peak	2023 With Development	AM Peak						07:45	09:15	90	15	ONE HOUR

Roundabout Network

Roundabout Type(s)

ID	Name	Arm Order	Roundabout Type	Grade Separated	Large Roundabout	Do Geometric Delay
1	Connaught Bridge Road/Connaught Road	A,B,C,D	Standard			

Roundabout Network Options

Driving Side	Lighting	Road Surface	In London
Left	Normal/unknown	((Mini-roundabouts only))	

Arms

Arms

ID	Name	Description
А	Connaught Bridge Road (N)	
в	Connaught Road (E)	
С	Connaught Bridge Road (South)	
D	Silvertown Quays	

Capacity Options

Arm	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
Α	0.00	99999.00		0.00
В	0.00	99999.00		0.00
С	0.00	99999.00		0.00
D	0.00	99999.00		0.00

Arm	V - Approach road half- width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only
A	7.30	7.50	1.00	20.00	46.50	24.50	
В	4.50	7.00	15.00	19.00	46.50	23.00	
С	7.30	7.50	1.00	19.00	46.50	25.00	
D	5.00	7.30	15.00	40.00	46.50	26.00	



Arm	Crossing Type
Α	None
В	None
С	None
D	None

Arm Slope/ Intercept and Capacity

Slope and Intercept used in model

Arm	Enter Directly	Slope	Intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
Α		((calculated))	((calculated))	0.743	2291.771
в		((calculated))	((calculated))	0.667	1897.860
С		((calculated))	((calculated))	0.740	2282.081
D		((calculated))	((calculated))	0.703	2058.499

The slope and intercept shown above include any corrections and adjustments.

Traffic Flows

Demand Set Data Options

Default Vehicle Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn	Vehicle Mix Varies Over Entry	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
		Yes	Yes	HV Percentages	2.00				Yes	Yes

Entry Flows

General Flows Data

Arm	Profile Type	Use Turning Counts	Average Demand Flow (Veh/hr)	Flow Scaling Factor (%)	PHF
Α	ONE HOUR	Yes	1022.00	100.000	N/A
В	ONE HOUR	Yes	837.00	100.000	N/A
С	ONE HOUR	Yes	976.00	100.000	N/A
D	ONE HOUR	Yes	164.00	100.000	N/A

Direct/Resultant Flows

Time Segment	Arm	Direct Demand Entry Flow (Veh/hr)	DirectDemandEntryFlowInPCU (PCU/hr)	Direct Demand Exit Flow (Veh/hr)	Direct Demand Pedestrian Flow (Ped/hr)
1	A	769.42	835.61	N/A	N/A
1	В	630.14	643.84	N/A	N/A
1	С	734.78	803.00	N/A	N/A
1	D	123.47	123.47	N/A	N/A
2	A	918,76	997.80	N/A	N/A
2	В	752.45	768.80	N/A	N/A
2	С	877.40	958.87	N/A	N/A
2	D	147.43	147.43	N/A	N/A
3	A	1125.24	1222.06	N/A	N/A
3	В	921.55	941.59	N/A	N/A



3	C	1074.60	1174.37	N/A	N/A
3	D	180.57	180.57	N/A	N/A
4	A	1125.24	1222.06	N/A	N/A
4	В	921.55	941.59	N/A	N/A
4	С	1074.60	1174.37	N/A	N/A
4	D	180.57	180.57	N/A	N/A
5	A	918.76	997.80	N/A	N/A
5	В	752.45	768.80	N/A	N/A
5	С	877.40	958.87	N/A	N/A
5	D	147.43	147.43	N/A	N/A
6	A	769.42	835.61	N/A	N/A
6	В	630.14	643.84	N/A	N/A
6	С	734.78	803.00	N/A	N/A
6	D	123.47	123.47	N/A	N/A

Turning Counts or Proportions (Veh/hr) - Roundabout 1 (for whole period)

	То							
		A	В	С	D			
	A	0.000	152.000	775.000	95.000			
From	В	152.000	0.000	673.000	12.000			
	С	484.000	486.000	0.000	6.000			
	D	138.000	17.000	9.000	0.000			

Turning Proportions (Veh) - Roundabout 1 (for whole period)

	То						
		A	В	С	D		
	A	0.00	0.15	0.76	0.09		
From	В	0.18	0.00	0.80	0.01		
	С	0.50	0.50	0.00	0.01		
	D	0.84	0.10	0.05	0.00		

Vehicle Mix

Average PCU Per Vehicle - Roundabout 1 (for whole period)

	То						
		Α	В	С	D		
	A	1.000	1.140	1.086	1.000		
From	в	1.071	1.000	1.011	1.000		
	С	1.133	1.054	1.000	1.000		
	D	1.000	1.000	1.000	1.000		

			То			
		A	В	С	D	
	Α	0.000	14.000	8.600	0.000	
From	в	7.100	0.000	1.100	0.000	
	С	13.300	5.400	0.000	0.000	
	D	0.000	0.000	0.000	0.000	



Results Summary

Arm	Max RFC	Max Delay (min)	Max Queue (Veh)	Max LOS	Total Demand (Veh/hr)	Total Arrivals (Veh)	Total Queueing Delay (Veh- min)	Average Queueing Delay (min)	Rate Of Queueing Delay (Veh- min/min)	Inclusive Queueing Total Delay (Veh-min)	Inclusive Queueing Average Delay (min)	Slope	Intercept (PCU/hr)
Α	0.66	0.10	1.92	A	937.80	1406.70	109.78	0.08	1.22	109.79	0.08	0.743	2291.771
В	0.78	0.23	3.47	В	768.04	1152.07	163.15	0.14	1.81	163.17	0.14	0.667	1897.860
С	0.57	0.07	1.31	A	895.60	1343.40	82.00	0.06	0.91	82.00	0.06	0.740	2282.081
D	0.16	0.06	0.19	A	150.49	225.73	12.50	0.06	0.14	12.50	0.06	0.703	2058.499

Overview: Standard Roundabout Geometry

Standard Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	I" - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only	Final Slope	Final Intercept (PCU/hr)
A	7.30	7.50	1.00	20.00	46.50	24.50		0.743	2291.771
В	4.50	7.00	15.00	19.00	46.50	23.00		0.667	1897.860
С	7.30	7.50	1.00	19.00	46.50	25.00		0.740	2282.081
D	5.00	7.30	15.00	40.00	46.50	26.00		0.703	2058.499

Overview: Time Segment Results

Time Segment	Arm	Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Pedestrian Demand (Ped/hr)	Start Queue (Veh)	End Queue (Veh)	Queueing Total Delay (Veh-min)	Geometric Total Delay (Veh-min)	Average Delay Per Arriving Vehicle (min)
1	A	769.41	1833.97	0.420	0.00	0.00	0.72	10.50	(0.02)	0.056
1	В	630.14	1394.26	0.452	0.00	0.00	0.82	11.85	(0.02)	0.078
1	С	734.79	1951.38	0.377	0.00	0.00	0.60	8.82	(0.02)	0.049
1	D	123.47	1413.05	0.087	0.00	0.00	0.10	1.41	(0.02)	0.047
2	A	918.75	1779.62	0.516	0.00	0.72	1.06	15.47	(0.02)	0.069
2	В	752.44	1303.10	0.577	0.00	0.82	1.34	19.39	(0.02)	0.108
2	С	877.41	1924.44	0.456	0.00	0.60	0.83	12.24	(0.02)	0.057
2	D	147.43	1286.04	0.115	0.00	0.10	0.13	1.91	(0.02)	0.053
3	A	1125.24	1705.60	0.660	0.00	1.06	1.90	27.26	(0.02)	0.102
3	В	921.55	1179.53	0.781	0.00	1.34	3.35	45.38	(0.02)	0.219
3	C	1074.60	1888.51	0.569	0.00	0.83	1.31	19.02	(0.02)	0.073
3	D	180.57	1113.75	0.162	0.00	0.13	0.19	2.84	(0.02)	0.064
4	A	1125.24	1704.90	0.660	0.00	1.90	1.92	28.71	(0.02)	0.103
4	В	921.55	1177.55	0.783	0.00	3.35	3.47	51.38	(0.02)	0.233
4	С	1074.60	1887.24	0.569	0.00	1.31	1.31	19.67	(0.02)	0.074
4	D	180.57	1111.30	0.162	0.00	0.19	0.19	2.90	(0.02)	0.064
5	A	918.75	1778.57	0.517	0.00	1.92	1.08	16.69	(0.02)	0.070
5	В	752.44	1300.25	0.579	0.00	3.47	1.40	22.25	(0.02)	0.113
5	С	877.41	1922.67	0.456	0.00	1.31	0.85	12.97	(0.02)	0.058
5	D	147.43	1282.47	0.115	0.00	0.19	0.13	1.99	(0.02)	0.053
6	A	769.41	1832.71	0.420	0.00	1.08	0.73	11.16	(0.02)	0.057
6	в	630.14	1391.68	0.453	0.00	1.40	0.84	12.91	(0.02)	0.079
6	С	734.79	1950.34	0.377	0.00	0.85	0.61	9.27	(0.02)	0.049
6	D	123.47	1409.73	0.088	0.00	0.13	0.10	1.46	(0.02)	0.047







File: X:\Projects\110000\110116A - City Airport ESD\Modelling\ARCADY\Connaught Bridge Road Roundabout.arc7 Report generation date: 24/06/2013 11:48:38

« A1 - (Default An:	alysis Set)	- D10 - 2023	With Deve	lopment, PM Peak
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- » Roundabout Network
- » Arms
- » Traffic Flows
- » Entry Flows
- » Direct/Resultant Flows
- » Turning Proportions
- » Vehicle Mix
- » Results
- » Overview: Standard Roundabout Geometry
- » Overview: Time Segment Results

File summary

File Description

Title	(untitled)
Location	
Site Number	
Date	17/01/2012
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	VECTOS\Robert.Roughan
Description	

Analysis Options

RFC Threshold	Vehicle Length (m)	Do Queue Variations
0.85	5.75	

Sorting and Display

Show Arm Names	Arm Grouping	Sorting Direction	Sorting Type	Data Matrix Style	Time Style	
	Order	Ascending	Numerical	By Destination	Absolute Time	

Units

Distance Units	Speed Units	Traffic Units Input	Traffic Units Results	Flow Units	Average Delay Units	Total Delay Units	Rate Of Delay Units
m	kph	Veh	Veh	perHour	min	-Min	perMin

A1 - (Default Analysis Set) - D10 - 2023 With



Development, FIN Feak

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Description	Include In Report	Use Specific Demand Set	Demand Set	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
(Default Analysis Set)		Yes		(D1)		100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Locked	Run Automatically	Use Relationship	Relationship	Start Time (HH:mm)	Finish Time (HH:mm)	Time Period Length (min)	Time Segment Length (min)	Traffic Profile Type
2023 With Development, PM Peak	2023 With Development	PM Peak	-		Yes			16:45	18:15	90	15	ONE HOUR

Roundabout Network

Roundabout Type(s)

ID	Name	Arm Order	Roundabout Type	Grade Separated	Large Roundabout	Do Geometric Delay
1	Connaught Bridge Road/Connaught Road	A,B,C,D	Standard			

Roundabout Network Options

Driving Side	Lighting	Road Surface	In London
Left	Normal/unknown	((Mini-roundabouts only))	

Arms

Arms

ID	Name	Description
А	Connaught Bridge Road (N)	
в	Connaught Road (E)	
С	Connaught Bridge Road (South)	
D	Silvertown Quays	

Capacity Options

Arm	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
Α	0.00	99999.00		0.00
В	0.00	99999.00		0.00
С	0.00	99999.00		0.00
D	0.00	99999.00		0.00

Arm	V - Approach road half- width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only
A	7.30	7.50	1.00	20.00	46.50	24.50	
В	4.50	7.00	15.00	19.00	46.50	23.00	
С	7.30	7.50	1.00	19.00	46.50	25.00	
D	5.00	7.30	15.00	40.00	46.50	26.00	· · · · ·



Arm	Crossing Type
Α	None
В	None
С	None
D	None

Arm Slope/ Intercept and Capacity

Slope and Intercept used in model

Arm	Enter Directly	Slope	Intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
Α		((calculated))	((calculated))	0.743	2291.771
В		((calculated))	((calculated))	0.667	1897.860
С		((calculated))	((calculated))	0.740	2282.081
D		((calculated))	((calculated))	0.703	2058.499

The slope and intercept shown above include any corrections and adjustments.

Traffic Flows

Demand Set Data Options

Default Vehicle Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn	Vehicle Mix Varies Over Entry	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
		Yes	Yes	HV Percentages	2.00				Yes	Yes

Entry Flows

General Flows Data

Arm	Profile Type	Use Turning Counts	Average Demand Flow (Veh/hr)	Flow Scaling Factor (%)	PHF
Α	ONE HOUR	Yes	711.00	100.000	N/A
В	ONE HOUR	Yes	469.00	100.000	N/A
С	ONE HOUR	Yes	1651.00	100.000	N/A
D	ONE HOUR	Yes	159.00	100.000	N/A

Direct/Resultant Flows

Time Segment	Arm	Direct Demand Entry Flow (Veh/hr)	DirectDemandEntryFlowInPCU (PCU/hr)	Direct Demand Exit Flow (Veh/hr)	Direct Demand Pedestrian Flow (Ped/hr)
1	A	535.28	558.62	N/A	N/A
1	В	353.09	363.99	N/A	N/A
1	С	1242.96	1303.12	N/A	N/A
1	D	119.70	119.70	N/A	N/A
2	A	639.17	667.04	N/A	N/A
2	В	421.62	434.64	N/A	N/A
2	С	1484.22	1556.05	N/A	N/A
2	D	142.94	142.94	N/A	N/A
3	A	782.83	816.96	N/A	N/A
3	В	516.38	532.32	N/A	N/A



3	C	1817.78	1905.76	N/A	N/A
3	D	175.06	175.06	N/A	N/A
4	A	782.83	816.96	N/A	N/A
4	В	516.38	532.32	N/A	N/A
4	С	1817.78	1905.76	N/A	N/A
4	D	175.06	175.06	N/A	N/A
5	A	639.17	667.04	N/A	N/A
5	В	421.62	434.64	N/A	N/A
5	С	1484.22	1556.05	N/A	N/A
5	D	142.94	142.94	N/A	N/A
6	A	535.28	558.62	N/A	N/A
6	В	353.09	363.99	N/A	N/A.
6	С	1242.96	1303.12	N/A	N/A
6	D	119.70	119.70	N/A	N/A

Turning Counts or Proportions (Veh/hr) - Roundabout 1 (for whole period)

		То						
		A	В	С	D			
	A	0.000	83.000	443.000	185.000			
From	в	56.000	0.000	390.000	23.000			
	С	918.000	722.000	0.000	11.000			
	D	134.000	8.000	17.000	0.000			

Turning Proportions (Veh) - Roundabout 1 (for whole period)

	То					
		A	В	С	D	
	A	0.00	0.12	0.62	0.26	
From	В	0.12	0.00	0.83	0.05	
	С	0.56	0.44	0.00	0.01	
	D	0.84	0.05	0.11	0.00	

Vehicle Mix

Average PCU Per Vehicle - Roundabout 1 (for whole period)

			То		
		A	В	С	D
	Α	1.000	1.128	1.046	1.000
From	в	1.175	1.000	1.012	1.000
	С	1.043	1.056	1.000	1.000
	D	1.000	1.000	1.000	1.000

			То		
		A	В	С	D
	Α	0.000	12.800	4.600	0.000
From	в	17.500	0.000	1.200	0.000
	С	4.300	5.600	0.000	0.000
	D	0.000	0.000	0.000	0.000



Results Summary

Arm	Max RFC	Max Delay (min)	Max Queue (Veh)	Max	Total Demand (Veh/hr)	Total Arrivals (Veh)	Total Queueing Delay (Veh- min)	Average Queueing Delay (min)	Rate Of Queueing Delay (Veh- min/min)	Inclusive Queueing Total Delay (Veh-min)	Inclusive Queueing Average Delay (min)	Slope	Intercept (PCU/hr)
Α	0.50	0.08	0.98	A	652.43	978.64	59.90	0.06	0.67	59.90	0.06	0.743	2291.771
В	0.38	0.07	0.60	A	430.36	645.55	39.25	0.06	0.44	39.25	0.06	0.667	1897.860
С	0.93	0.38	10.73	С	1514.98	2272.48	410.31	0.18	4.56	410.35	0.18	0.740	2282.081
D	0.26	0.12	0.34	A	145.90	218.85	19.12	0.09	0.21	19.12	0.09	0.703	2058.499

Overview: Standard Roundabout Geometry

Standard Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only	Final Slope	Final Intercept (PCU/hr)
A	7.30	7.50	1.00	20.00	46.50	24.50		0.743	2291.771
В	4.50	7.00	15.00	19.00	46.50	23.00		0.667	1897.860
С	7.30	7.50	1.00	19.00	46.50	25.00		0.740	2282.081
D	5.00	7.30	15.00	40.00	46.50	26.00		0.703	2058.499

Overview: Time Segment Results

Time Segment	Arm	Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Pedestrian Demand (Ped/hr)	Start Queue (Veh)	End Queue (Veh)	Queueing Total Delay (Veh-min)	Geometric Total Delay (Veh-min)	Average Delay Per Arriving Vehicle (min)
1	A	535.28	1776.18	0.301	0.00	0.00	0.43	6.31	(0.02)	0.048
1	В	353.09	1517.82	0.233	0.00	0.00	0.30	4.44	(0.02)	0.051
1	С	1242.96	2031.78	0.612	0.00	0.00	1.56	22.38	(0.02)	0.075
1	D	119.70	1117.73	0.107	0.00	0.00	0.12	1.76	(0.02)	0.060
2	A	639.18	1693.82	0.377	0.00	0.43	0.60	8.88	(0.02)	0.057
2	В	421.62	1454.26	0.290	0.00	0.30	0.41	5.99	(0.02)	0.058
2	С	1484.21	2003.26	0.741	0.00	1.56	2.78	39.42	(0.02)	0.113
2	D	142.94	933.18	0.153	0.00	0.12	0.18	2.65	(0.02)	0.076
3	A	782.83	1588.07	0.493	0.00	0.60	0.96	14.06	(0.02)	0.074
3	в	516.38	1367.71	0.378	0.00	0.41	0.60	8.84	(0.02)	0.070
3	С	1817.78	1964.42	0.925	0.00	2.78	9.67	117.80	(0.02)	0.306
3	D	175.06	696.07	0.252	0.00	0.18	0.33	4.84	(0.02)	0.115
4	A	782.83	1580.34	0.495	0.00	0.96	0.98	14.57	(0.02)	0.075
4	в	516.38	1366.85	0.378	0.00	0.60	0.60	9.06	(0.02)	0.071
4	С	1817.78	1964.06	0.926	0.00	9.67	10.73	154.24	(0.02)	0.376
4	D	175.06	678.93	0.258	0.00	0.33	0.34	5.12	(0.02)	0,119
5	A	639.18	1681.89	0.380	0.00	0.98	0.62	9.45	(0.02)	0.058
5	В	421.62	1452.95	0.290	0.00	0.60	0.41	6.28	(0.02)	0.058
5	С	1484.21	2002.71	0.741	0.00	10.73	2.95	51.58	(0.02)	0.131
5	D	142.94	906.68	0.158	0.00	0.34	0.19	2.89	(0.02)	0.079
6	A	535.28	1772.27	0.302	0.00	0.62	0.43	6.63	(0.02)	0.049
6	В	353.09	1516.33	0.233	0.00	0.41	0.30	4.64	(0.02)	0.052
6	С	1242.96	2031.11	0.612	0.00	2.95	1.60	24.89	(0.02)	0.077
6	D	119.70	1109.05	0.108	0.00	0.19	0.12	1.85	(0.02)	0.061







File: X:\Projects\110000\110116A - City Airport ESD\Modelling\ARCADY\Connaught Bridge Road Roundabout.arc7 Report generation date: 24/06/2013 11:49:20

« A1 - (Default A	Analysis Set	- D11	- 2023 With	Development	- Sensitivitiy,	AM Peak
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- » Roundabout Network
- » Arms
- » Traffic Flows
- » Entry Flows
- » Direct/Resultant Flows
- » Turning Proportions
- » Vehicle Mix
- » Results
- » Overview: Standard Roundabout Geometry
- » Overview: Time Segment Results

File summary

File Description

Title	(untitled)
Location	
Site Number	
Date	17/01/2012
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	VECTOS\Robert.Roughan
Description	

Analysis Options

RFC Threshold	Vehicle Length (m)	Do Queue Variations
0.85	5.75	

Sorting and Display

Show Arm Names	Arm Grouping	Sorting Direction	Sorting Type	Data Matrix Style	Time Style	
	Order	Ascending	Numerical	By Destination	Absolute Time	

Units

Distance Units	Speed Units	Traffic Units Input	Traffic Units Results	Flow Units	Average Delay Units	Total Delay Units	Rate Of Delay Units
m	kph	Veh	Veh	perHour	min	-Min	perMin

A1 - (Default Analysis Set) - D11 - 2023 With



Development - Sensitivity, All reak

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Description	Include In Report	Use Specific Demand Set	Demand Set	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
(Default Analysis Set)		Yes		(D1)		100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Locked	Run Automatically	Use Relationship	Relationship	Start Time (HH:mm)	Finish Time (HH:mm)	Time Period Length (min)	Time Segment Length (min)	Traffic Profile Type
2023 With Development - Sensitivitiy, AM Peak	2023 With Development - Sensitivitiy	AM Peak						07:45	09:15	90	15	ONE HOUR

Roundabout Network

Roundabout Type(s)

ID	Name	Arm Order	Roundabout Type	Grade Separated	Large Roundabout	Do Geometric Delay
1	Connaught Bridge Road/Connaught Road	A,B,C,D	Standard			

Roundabout Network Options

Driving Side	Lighting	Road Surface	In London
Left	Normal/unknown	((Mini-roundabouts only))	

Arms

Arms

ID	Name	Description
À	Connaught Bridge Road (N)	
в	Connaught Road (E)	
С	Connaught Bridge Road (South)	
D	Silvertown Quays	

Capacity Options

Arm	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
Α	0.00	99999.00		0.00
В	0.00	99999.00		0.00
С	0.00	99999.00		0.00
D	0.00	99999.00		0.00

Arm	V - Approach road half- width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only
A	7.30	7.50	1.00	20.00	46.50	24.50	
В	4.50	7.00	15.00	19.00	46.50	23.00	12.00
С	7.30	7.50	1.00	19.00	46.50	25.00	i



D	5.00	7.30	15.00	40.00	46.50	26.00	
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Arm	Crossing Type
A	None
В	None
С	None
D	None

Arm Slope/ Intercept and Capacity

Slope and Intercept used in model

Arm	Enter Directly	Slope	Intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
Α		((calculated))	((calculated))	0.743	2291.771
В		((calculated))	((calculated))	0.667	1897.860
С		((calculated))	((calculated))	0.740	2282.081
D		((calculated))	((calculated))	0.703	2058.499

The slope and intercept shown above include any corrections and adjustments.

Traffic Flows

Demand Set Data Options

Default Vehicle Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn	Vehicle Mix Varies Over Entry	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
		Yes	Yes	HV Percentages	2.00				Yes	Yes

Entry Flows

General Flows Data

Arm	Profile Type	Use Turning Counts	Average Demand Flow (Veh/hr)	Flow Scaling Factor (%)	PHF
A	ONE HOUR	Yes	1024.00	100.000	N/A
В	ONE HOUR	Yes	869.00	100.000	N/A
С	ONE HOUR	Yes	984.00	100.000	N/A
D	ONE HOUR	Yes	164.00	100.000	N/A

Direct/Resultant Flows

Time Segment	Arm	Direct Demand Entry Flow (Veh/hr)	DirectDemandEntryFlowInPCU (PCU/hr)	Direct Demand Exit Flow (Veh/hr)	Direct Demand Pedestrian Flow (Ped/hr)
1	A	770.92	837.21	N/A	N/A
1	В	654.23	667.58	N/A	N/A
1	С	740.81	808.98	N/A	N/A
1	D	123.47	123.47	N/A	N/A
2	A	920.55	999.72	N/A	N/A
2	В	781.21	797.16	N/A	N/A
2	С	884.60	966.00	N/A	N/A
2	D	147.43	147.43	N/A	N/A
3	A	1127.45	1224.40	N/A	N/A



3	В	956.79	976.31	N/A	N/A
3	C	1083.40	1183.11	N/A	N/A
3	D	180.57	180.57	N/A	N/A
4	A	1127.45	1224.40	N/A	N/A
4	В	956.79	976.31	N/A	N/A
4	С	1083.40	1183.11	N/A	N/A
4	D	180.57	180.57	N/A	N/A
5	A	920.55	999.72	N/A	N/A
5	В	781.21	797.16	N/A	N/A
5	С	884.60	966.00	N/A	N/A
5	D	147.43	147.43	N/A	N/A
6	A	770.92	837.21	N/A	N/A
6	В	654.23	667.58	N/A	N/A
6	С	740.81	808.98	N/A	N/A
6	D	123.47	123.47	N/A	N/A

Turning Counts or Proportions (Veh/hr) - Roundabout 1 (for whole period)

			To		
		Α	В	С	D
	Α	0.000	154.000	775.000	95.000
From	В	158.000	0.000	699.000	12.000
	С	484.000	494.000	0.000	6.000
	D	138.000	17.000	9.000	0.000

Turning Proportions (Veh) - Roundabout 1 (for whole period)

	То							
		A	В	С	D			
	Α	0.00	0.15	0.76	0.09			
From	в	0.18	0.00	0.80	0.01			
	С	0.49	0.50	0.00	0.01			
	D	0.84	0.10	0.05	0.00			

Vehicle Mix

Average PCU Per Vehicle - Roundabout 1 (for whole period)

	То								
		Α	В	С	D				
_	Α	1.000	1.139	1.086	1.000				
From	в	1.068	1.000	1.010	1.000				
	С	1.133	1.053	1.000	1.000				
	D	1.000	1.000	1.000	1.000				

	То								
		A	В	С	D				
	A	0.000	13.900	8.600	0.000				
From	в	6.800	0.000	1.000	0.000				
	С	13.300	5.300	0.000	0.000				
	D	0.000	0.000	0.000	0.000				



Results Summary

Arm	Max RFC	Max Delay (min)	Max Queue (Veh)	Max LOS	Total Demand (Veh/hr)	Total Arrivals (Veh)	Total Queueing Delay (Veh- min)	Average Queueing Delay (min)	Rate Of Queueing Delay (Veh- min/min)	Inclusive Queueing Total Delay (Veh-min)	Inclusive Queueing Average Delay (min)	Slope	Intercept (PCU/hr)
Α	0.66	0.10	1.95	A	939.64	1409.46	111.11	0.08	1.23	111.11	0.08	0.743	2291.771
В	0.81	0.27	4.11	С	797.41	1196.11	185.01	0.15	2.06	185.02	0.15	0.667	1897.860
С	0.57	0.07	1.34	A	902.93	1354.40	83.56	0.06	0.93	83.57	0.06	0.740	2282.081
D	0.16	0.07	0.20	A	150.49	225.73	12.62	0.06	0.14	12.62	0.06	0.703	2058.499

Overview: Standard Roundabout Geometry

Standard Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only	Final Slope	Final Intercept (PCU/hr)
A	7.30	7.50	1.00	20.00	46.50	24.50		0.743	2291.771
в	4.50	7.00	15.00	19.00	46.50	23.00		0.667	1897.860
С	7.30	7.50	1.00	19.00	46.50	25.00		0.740	2282.081
D	5.00	7.30	15.00	40.00	46.50	26.00		0.703	2058.499

Overview: Time Segment Results

Time Segment	Arm	Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Pedestrian Demand (Ped/hr)	Start Queue (Veh)	End Queue (Veh)	Queueing Total Delay (Veh-min)	Geometric Total Delay (Veh-min)	Average Delay Per Arriving Vehicle (min)
1	Α	770.92	1829.98	0.421	0.00	0.00	0.72	10.57	(0.02)	0.056
1	в	654.23	1396.09	0.469	0.00	0.00	0.87	12.64	(0.02)	0.080
1	С	740.80	1949.83	0.380	0.00	0.00	0.61	8.94	(0.02)	0.049
1	D	123.47	1405.75	0.088	0.00	0.00	0.10	1.42	(0.02)	0.047
2	A	920.56	1774.83	0.519	0.00	0.72	1.07	15.61	(0.02)	0.070
2	в	781.21	1304.81	0.599	0.00	0.87	1.46	21.07	(0.02)	0.114
2	С	884.59	1922.28	0.460	0.00	0.61	0.85	12.45	(0.02)	0.058
2	D	147.43	1277.31	0.115	0.00	0.10	0.13	1.92	(0.02)	0.053
3	A	1127.45	1699.73	0.663	0.00	1.07	1.93	27.67	(0.02)	0.104
3	в	956.78	1181.11	0.810	0.00	1.46	3.93	52.30	(0.02)	0.246
3	С	1083.40	1885.73	0.575	0.00	0.85	1.34	19.43	(0.02)	0.074
3	D	180.57	1103.29	0.164	0.00	0.13	0.19	2.87	(0.02)	0.065
4	A	1127.45	1699.01	0.664	0.00	1.93	1.95	29.16	(0.02)	0.105
4	в	956.78	1179.09	0.811	0.00	3.93	4.11	60.56	(0.02)	0.267
4	С	1083.40	1884.23	0.575	0.00	1.34	1.34	20.11	(0.02)	0.075
4	D	180.57	1100.58	0.164	0.00	0.19	0.20	2.93	(0.02)	0.065
5	A	920.56	1773.74	0.519	0.00	1.95	1.09	16.86	(0.02)	0.071
5	в	781.21	1301.90	0.600	0.00	4.11	1.53	24.60	(0.02)	0.120
5	С	884.59	1920.19	0.461	0.00	1.34	0.86	13.21	(0.02)	0.058
5	D	147.43	1273.37	0.116	0.00	0.20	0.13	2.00	(0.02)	0.053
6	A	770.92	1828.69	0.422	0.00	1.09	0.73	11.24	(0.02)	0.057
6	в	654.23	1393.49	0.469	0.00	1.53	0.89	13.84	(0.02)	0.082
6	С	740.80	1948.71	0.380	0.00	0.86	0.62	9.41	(0.02)	0.050
6	D	123.47	1402 32	0.088	0.00	0.13	0.10	1 47	(0.02)	0.047



P 14	J.TI 1702.J	2 0.000	0.00	0.15	0.10	1.71	(0.02)	0.041



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File: X:\Projects\110000\110116A - City Airport ESD\Modelling\ARCADY\Connaught Bridge Road Roundabout.arc7 Report generation date: 24/06/2013 11:49:57

« A1 - (Default Analysis Set) - I	D12 - 2023 With Develo	opment - Sensitivity, PM Peak
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- » Roundabout Network
- » Arms
- » Traffic Flows
- » Entry Flows
- » Direct/Resultant Flows
- » Turning Proportions
- » Vehicle Mix
- » Results
- » Overview: Standard Roundabout Geometry
- » Overview: Time Segment Results

File summary

File Description

Title	(untitled)
Location	
Site Number	
Date	17/01/2012
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	VECTOS\Robert.Roughan
Description	

Analysis Options

RFC Threshold	Vehicle Length (m)	Do Queue Variations
0.85	5.75	

Sorting and Display

Show Arm Names	Arm Grouping Sorting Directi		Sorting Type	Data Matrix Style	Time Style	
	Order	Ascending	Numerical	By Destination	Absolute Time	

Units

Distance Units	Speed Units	Traffic Units Input	Traffic Units Results	Flow Units	Average Delay Units	Total Delay Units	Rate Of Delay Units
m	kph	Veh	Veh	perHour	min	-Min	perMin

A1 - (Default Analysis Set) - D12 - 2023 With



Development - Sensitivity, Fivi Feak

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Description	Include In Report	Use Specific Demand Set	Demand Set	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
(Default Analysis Set)		Yes		(D1)		100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Locked	Run Automatically	Use Relationship	Relationship	Start Time (HH:mm)	Finish Time (HH:mm)	Time Period Length (min)	Time Segment Length (min)	Traffic Profile Type
2023 With Development - Sensitivity, PM Peak	2023 With Development - Sensitivity	PM Peak			Yes			16:45	18:15	90	15	ONE HOUR

Roundabout Network

Roundabout Type(s)

ID	Name	Arm Order	Roundabout Type	Grade Separated	Large Roundabout	Do Geometric Delay
1	Connaught Bridge Road/Connaught Road	A,B,C,D	Standard			

Roundabout Network Options

Driving Side	Lighting	Road Surface	In London
Left	Normal/unknown	((Mini-roundabouts only))	

Arms

Arms

ID	Name	Description
A	Connaught Bridge Road (N)	-
в	Connaught Road (E)	
С	Connaught Bridge Road (South)	
D	Silvertown Quays	

Capacity Options

Arm	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
Α	0.00	99999.00		0.00
В	0.00	99999.00		0.00
С	0.00	99999.00		0.00
D	0.00	99999.00		0.00

Arm	V - Approach road half- width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only
A	7.30	7.50	1.00	20.00	46.50	24.50	
В	4.50	7.00	15.00	19.00	46.50	23.00	12.23
С	7.30	7.50	1.00	19.00	46.50	25.00	


0.00 10.00 10.00	D	5.00	7.30	15.00	40.00	46.50	26.00	
------------------	---	------	------	-------	-------	-------	-------	--

Pedestrian Crossings

Arm	Crossing Type
A	None
В	None
С	None
D	None

Arm Slope/ Intercept and Capacity

Slope and Intercept used in model

Arm	Enter Directly	Slope	Intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
Α		((calculated))	((calculated))	0.743	2291.771
В		((calculated))	((calculated))	0.667	1897.860
С		((calculated))	((calculated))	0.740	2282.081
D		((calculated))	((calculated))	0.703	2058.499

The slope and intercept shown above include any corrections and adjustments.

Traffic Flows

Demand Set Data Options

Default Vehicle Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn	Vehicle Mix Varies Over Entry	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
		Yes	Yes	HV Percentages	2.00				Yes	Yes

Entry Flows

General Flows Data

Arm	Profile Type	Use Turning Counts	Average Demand Flow (Veh/hr)	Flow Scaling Factor (%)	PHF
A	ONE HOUR	Yes	717.00	100.000	N/A
В	ONE HOUR	Yes	473.00	100.000	N/A
С	ONE HOUR	Yes	1676.00	100.000	N/A
D	ONE HOUR	Yes	159.00	100.000	N/A

Direct/Resultant Flows

Direct Flows Data

Time Segment	Arm	Direct Demand Entry Flow (Veh/hr)	DirectDemandEntryFlowInPCU (PCU/hr)	Direct Demand Exit Flow (Veh/hr)	Direct Demand Pedestrian Flow (Ped/hr)
1	A	539.80	563.18	N/A	N/A
1	В	356.10	366.83	N/A	N/A
1	С	1261.78	1321.87	N/A	N/A
1	D	119.70	119.70	N/A	N/A
2	A	644.57	672.49	N/A	N/A
2	В	425.22	438.03	N/A	N/A
2	С	1506.69	1578.44	N/A	N/A
2	D	142.94	142.94	N/A	N/A
3	A	789.43	823.63	N/A	N/A
	-				



3	В	520.78	536.48	N/A	N/A
3	C	1845.31	1933.19	N/A	N/A
3	D	175.06	175.06	N/A	N/A
4	A	789.43	823.63	N/A	N/A
4	В	520.78	536.48	N/A	N/A
4	С	1845.31	1933.19	N/A	N/A
4	D	175.06	175.06	N/A	N/A
5	A	644.57	672.49	N/A	N/A
5	В	425.22	438.03	N/A	N/A
5	С	1506.69	1578.44	N/A	N/A
5	D	142.94	142.94	N/A	N/A
6	A	539.80	563.18	N/A	N/A
6	В	356.10	366.83	N/A	N/A
6	С	1261.78	1321.87	N/A	N/A
6	D	119.70	119.70	N/A	N/A

Turning Proportions

Turning Counts or Proportions (Veh/hr) - Roundabout 1 (for whole period)

	То								
		Α	В	С	D				
	Α	0.000	89.000	443.000	185.000				
From	в	55.000	0.000	395.000	23.000				
	С	918.000	747.000	0.000	11.000				
	D	134.000	8.000	17.000	0.000				

Turning Proportions (Veh) - Roundabout 1 (for whole period)

	То								
		A	В	С	D				
	Α	0.00	0.12	0.62	0.26				
From	в	0.12	0.00	0.84	0.05				
	С	0.55	0.45	0.00	0.01				
	D	0.84	0.05	0.11	0.00				

Vehicle Mix

Average PCU Per Vehicle - Roundabout 1 (for whole period)

-			То		
		Α	В	С	D
_	Α	1.000	1.120	1.046	1.000
From	В	1.173	1.000	1.012	1.000
	С	1.043	1.054	1.000	1.000
	D	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Roundabout 1 (for whole period)

	То									
		A	В	С	D					
	Α	0.000	12.000	4.600	0.000					
From	в	17.300	0.000	1.200	0.000					
	С	4.300	5.400	0.000	0.000					
	D	0.000	0.000	0.000	0.000					



Results

Results Summary

Arm	Max RFC	Max Delay (min)	Max Queue (Veh)	Max LOS	Total Demand (Veh/hr)	Total Arrivals (Veh)	Total Queueing Delay (Veh- min)	Average Queueing Delay (min)	Rate Of Queueing Delay (Veh- min/min)	Inclusive Queueing Total Delay (Veh-min)	Inclusive Queueing Average Delay (min)	Slope	Intercept (PCU/hr)
Α	0.51	0.08	1.01	A	657.93	986.89	61.86	0.06	0.69	61.87	0.06	0.743	2291.771
В	0.38	0.07	0.61	A	434.03	651.05	39.70	0.06	0.44	39.71	0.06	0.667	1897.860
С	0.94	0.43	12.48	D	1537.93	2306.89	455.37	0.20	5.06	455.41	0.20	0.740	2282.081
D	0.26	0.12	0.36	A	145.90	218.85	19.60	0.09	0.22	19.60	0.09	0.703	2058.499

Overview: Standard Roundabout Geometry

Standard Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only	Final Slope	Final Intercept (PCU/hr)
A	7.30	7.50	1.00	20.00	46.50	24.50		0.743	2291.771
в	4.50	7.00	15.00	19.00	46.50	23.00		0.667	1897.860
С	7.30	7.50	1.00	19.00	46.50	25.00		0.740	2282.081
D	5.00	7.30	15.00	40.00	46.50	26.00		0.703	2058.499

Overview: Time Segment Results

Time Segment Results

Time Segment	Arm	Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Pedestrian Demand (Ped/hr)	Start Queue (Veh)	End Queue (Veh)	Queueing Total Delay (Veh-min)	Geometric Total Delay (Veh-min)	Average Delay Per Arriving Vehicle (min)
1	A	539.79	1763.42	0.306	0.00	0.00	0.44	6.45	(0.02)	0.049
1	В	356.10	1518.91	0.234	0.00	0.00	0.30	4.48	(0.02)	0.052
1	C	1261.78	2033.98	0.620	0.00	0.00	1.61	23.17	(0.02)	0.076
1	D	119.70	1105.39	0.108	0.00	0.00	0.12	1.78	(0.02)	0.061
2	A	644.57	1678.49	0.384	0.00	0.44	0.62	9.12	(0.02)	0.058
2	в	425.22	1455.31	0.292	0.00	0.30	0.41	6.06	(0.02)	0.058
2	С	1506.69	2005.57	0.751	0.00	1.61	2.93	41.41	(0.02)	0.118
2	D	142.94	918.51	0.156	0.00	0.12	0.18	2.70	(0.02)	0.077
3	A	789.43	1570.69	0.503	0.00	0.62	1.00	14.59	(0.02)	0.076
3	в	520.78	1368.73	0.380	0.00	0.41	0.61	8.95	(0.02)	0.071
3	С	1845.31	1966.89	0.938	0.00	2.93	10.98	130.58	(0.02)	0.336
3	D	175.06	681.18	0.257	0.00	0.18	0.34	4.98	(0.02)	0.118
4	A	789.43	1561.86	0.505	0.00	1.00	1.01	15.15	(0.02)	0.078
4	в	520.78	1367.83	0.381	0.00	0.61	0.61	9.17	(0.02)	0.071
4	С	1845.31	1966.52	0.938	0.00	10.98	12.48	177.65	(0.02)	0.432
4	D	175.06	661.92	0.264	0.00	0.34	0.36	5.29	(0.02)	0.123
5	A	644.57	1664.10	0.387	0.00	1.01	0.64	9.76	(0.02)	0.059
5	в	425.22	1453.94	0.292	0.00	0.61	0.42	6.35	(0.02)	0.058
5	С	1506.69	2005.00	0.751	0.00	12.48	3.12	56.70	(0.02)	0.140
5	D	142.94	887.14	0.161	0.00	0.36	0.19	2.97	(0.02)	0.081
6	A	539.79	1759.21	0.307	0.00	0.64	0.44	6.78	(0.02)	0.049
6	в	356.10	1517.38	0.235	0.00	0.42	0.31	4.69	(0.02)	0.052
6	С	1261.78	2033.30	0.621	0.00	3.12	1.66	25.86	(0.02)	0.079
6	D	119 70	1096 21	0 109	0.00	0.19	0.12	1.88	(0.02)	0.062



Full Input Data And Results Full Input Data And Results

User and Project Details

Project:	City Airport
Title:	Apron Stand Replacement Project
Location:	London
File name:	Connaught Road-Hartmann Road.lsg3x
Author:	RR
Company:	Vectos
Address:	
Notes:	

Network Layout Diagram



Phase Diagram



Phase Input Data

Phase Name	Phase Type	Assoc. Phase	Street Min	Cont Min
А	Traffic		7	7
В	Traffic		7	7
С	Traffic		7	7
D	Pedestrian		6	6
E	Pedestrian		6	6
F	Pedestrian		6	6
G	Filter	А	4	0

Phase Intergreens Matrix

			Sta	arting	g Ph	ase		
		А	В	С	D	Е	F	G
	А		-	7	5	11	9	-
	В	-		7	11	5	12	-
Terminating	С	5	5		11	10	5	-
Phase	D	12	12	12		-	-	12
	Е	9	9	9	-		-	-
	F	11	11	11	-	-		11
	G	-	-	-	5	-	9	

Phases in Stage

Stage No.	Phases in Stage
1	AB
2	DEF
3	CG

Stage Diagram



Phase Delays

Term. Stage	Start Stage Phase		Туре	Value	Cont value	
1	3	G	Gaining absolute	5	5	

Prohibited Stage Change



Full Input Data And Results Give-Way Lane Input Data

Junction: Unnamed Junction											
Lane	Movement	Max Flow when Giving Way (PCU/Hr)	Min Flow when Giving Way (PCU/Hr)	Opposing Lane	Opp. Lane Coeff.	Opp. Mvmnts.	Right Turn Storage (PCU)	Non-Blocking Storage (PCU)	RTF	Right Turn Move up (s)	Max Turns in Intergreen (PCU)
3/1	E/1 (Diabt)	(abt) 1420	0	1/1	1.09	All	4.00		0.50	4	2.00
(Connaught Road (East))	S/T (Right)	1439	0	1/2	1.09	All	4.00	-	0.50	4	2.00

Full Input Data And Results Lane Input Data

Junction: Unna	Junction: Unnamed Junction											
Lane	Lane Type	Phases	Start Disp.	End Disp.	Physical Length (PCU)	Sat Flow Type	Def User Saturation Flow (PCU/Hr)	Lane Width (m)	Gradient	Nearside Lane	Turns	Turning Radius (m)
1/1 (Connaught Road (West))	U	A G	2	3	5.0	Geom	-	2.75	0.00	Y	Arm 5 Left	22.50
1/2 (Connaught Road (West))	U	А	2	3	60.0	Geom	-	2.75	0.00	Y	Arm 6 Ahead	Inf
2/1 (Hartmann	11	C	2	3	60.0	Geom	_	4.00	0.00	Y	Arm 4 Right	22.50
Road)		U	2	5	00.0	Geoin		4.00	0.00		Arm 6 Left	10.00
3/1				2	60.0	Coom		4.00	0.00	V	Arm 4 Ahead	Inf
Road (East))	0	Б	2	3	60.0	Geom	-	4.00	0.00	Y	Arm 5 Right	10.00
4/1	U		2	3	60.0	Inf	-	-	-	-	-	-
5/1	U		2	3	60.0	Inf	-	-	-	-	-	-
6/1	U		2	3	60.0	Inf	-	-	-	-	-	-

Traffic Flow Groups

Flow Group	Start Time	End Time	Duration	Formula
1: 'Existing AM Peak'	08:00	09:00	01:00	
2: 'Existing PM Peak'	17:00	18:00	01:00	
3: '2021 Without Development AM Peak'	08:00	09:00	01:00	
4: '2021 Without Development PM Peak'	17:00	18:00	01:00	
5: '2021 With Development AM Peak'	08:00	09:00	01:00	
6: '2021 With Development PM Peak'	17:00	18:00	01:00	
7: '2023 Without Development AM Peak'	08:00	09:00	01:00	
8: '2023 Without Development PM Peak'	17:00	18:00	01:00	
9: '2023 With Development AM Peak'	08:00	09:00	01:00	
10: '2023 With Development PM Peak'	17:00	18:00	01:00	
11: '2023 With Development AM Peak - Sensitivity Test'	08:00	09:00	01:00	
12: '2023 With Development PM Peak - Sensitivity Test'	17:00	18:00	01:00	

Scenario 1: 'Existing AM Peak' (FG1: 'Existing AM Peak', Plan 1: 'Peds Every Cycle') Traffic Flows, Desired Desired Flow :

	Destination								
		А	В	С	Tot.				
	А	0	323	123	446				
Origin	В	384	0	37	421				
	С	244	34	0	278				
	Tot.	628	357	160	1145				

Traffic Lane Flows

Lane	Scenario 1: Existing AM Peak							
Junction: Unnamed Junction								
1/1 (short)	323							
1/2 (with short)	446(In) 123(Out)							
2/1	421							
3/1	278							
4/1	628							
5/1	357							
6/1	160							

Junction: Unnamed Junction								
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1 (Connaught Road (West))	2.75	0.00	Y	Arm 5 Left	22.50	100.0 %	1772	1772
1/2 (Connaught Road (West))	2.75	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1890	1890
2/1 (Hartmann Road)	4.00	0.00	Y	Arm 4 Right Arm 6 Left	22.50 10.00	91.2 % 8.8 %	1876	1876
3/1	4.00	0.00	v	Arm 4 Ahead	Inf	87.8 %	1070	1979
(Connaught Road (East))	4.00	0.00	Y	Arm 5 Right	10.00	12.2 %	1979	
4/1		Infinite Saturation Flow						Inf
5/1		Infinite Saturation Flow						Inf
6/1			Infinite S	aturation Flow			Inf	Inf

Scenario 2: 'Existing PM Peak' (FG2: 'Existing PM Peak', Plan 1: 'Peds Every Cycle') Traffic Flows, Desired Desired Flow :

	Destination								
		А	В	С	Tot.				
	А	0	407	209	616				
Origin	В	443	0	44	487				
	С	147	39	0	186				
	Tot.	590	446	253	1289				

Traffic Lane Flows

Lane	Scenario 2: Existing PM Peak							
Junction: Unnamed Junction								
1/1 (short)	407							
1/2 (with short)	616(In) 209(Out)							
2/1	487							
3/1	186							
4/1	590							
5/1	446							
6/1	253							

Junction: Unnamed Junction								
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1 (Connaught Road (West))	2.75	0.00	Y	Arm 5 Left	22.50	100.0 %	1772	1772
1/2 (Connaught Road (West))	2.75	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1890	1890
2/1	4.00	0.00	~	Arm 4 Right	22.50	91.0 %	1876	1876
(Hartmann Road)	4.00	0.00	T	Arm 6 Left	10.00	9.0 %		
3/1	4.00	0.00	v	Arm 4 Ahead	Inf	79.0 %	1054	1054
(Connaught Road (East))	4.00	0.00	ř	Arm 5 Right	10.00	21.0 %	1954	1954
4/1		Infinite Saturation Flow						Inf
5/1		Infinite Saturation Flow						Inf
6/1			Infinite S		Inf	Inf		

Scenario 3: '2021 Without Development AM Peak' (FG3: '2021 Without Development AM Peak', Plan 1: 'Peds Every Cycle')

Traffic Flows, Desired

Desired	FIOW :								
	Destination								
		А	В	С	Tot.				
	А	0	359	222	581				
Origin	В	466	0	41	507				
	С	381	37	0	418				
	Tot.	847	396	263	1506				

Traffic Lane Flows

Lane	Scenario 3: 2021 Without Development AM Peak							
Junction: Unnamed Junction								
1/1 (short)	359							
1/2 (with short)	581(In) 222(Out)							
2/1	507							
3/1	418							
4/1	847							
5/1	396							
6/1	263							

Junction: Unnamed Junction								
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1 (Connaught Road (West))	2.75	0.00	Y	Arm 5 Left	22.50	100.0 %	1772	1772
1/2 (Connaught Road (West))	2.75	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1890	1890
2/1	4 00	.00 0.00	Y	Arm 4 Right	22.50	91.9 %	1877	1977
(Hartmann Road)	4.00			Arm 6 Left	10.00	8.1 %		10/7
3/1	4 00	0.00	Y	Arm 4 Ahead	Inf	91.1 %	1090	1090
(Connaught Road (East))	4.00			Arm 5 Right	10.00	8.9 %	1969	1989
4/1		Infinite Saturation Flow						Inf
5/1		Infinite Saturation Flow						Inf
6/1			Infinite S	aturation Flow			Inf	Inf

Scenario 4: '2021 Without Development PM Peak' (FG4: '2021 Without Development PM Peak', Plan 1: 'Peds Every Cycle')

Traffic Flows, Desired

Desired	FIOW :								
	Destination								
		А	В	С	Tot.				
	А	0	438	320	758				
Origin	В	316	0	33	349				
	С	272	42	0	314				
	Tot.	588	480	353	1421				

Traffic Lane Flows

Lane	Scenario 4: 2021 Without Development PM Peak							
Junction: Unnamed Junction								
1/1 (short)	438							
1/2 (with short)	758(In) 320(Out)							
2/1	349							
3/1	314							
4/1	588							
5/1	480							
6/1	353							

Junction: Unnamed Junction									
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)	
1/1 (Connaught Road (West))	2.75	0.00	Y	Arm 5 Left	22.50	100.0 %	1772	1772	
1/2 (Connaught Road (West))	2.75	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1890	1890	
2/1	4.00	0.00	Y	Arm 4 Right	22.50	90.5 %	1875	1875	
(Hartmann Road)	4.00	0.00		Arm 6 Left	10.00	9.5 %			
3/1	4 00	0.00	Y	Arm 4 Ahead	Inf	86.6 %	1975	1975	
(Connaught Road (East))	4.00			Arm 5 Right	10.00	13.4 %			
4/1		Infinite Saturation Flow						Inf	
5/1		Infinite Saturation Flow						Inf	
6/1			Infinite S	aturation Flow			Inf	Inf	

Scenario 5: '2021 With Development AM Peak' (FG5: '2021 With Development AM Peak', Plan 1: 'Peds Every Cycle')

Traffic Flows, Desired

Desired	FIOW :								
	Destination								
		А	В	С	Tot.				
	А	0	302	220	522				
Origin	В	417	0	6	423				
	С	381	13	0	394				
	Tot.	798	315	226	1339				

Traffic Lane Flows

Lane	Scenario 5: 2021 With Development AM Peak					
Junction: Unnamed Junction						
1/1 (short)	302					
1/2 (with short)	522(In) 220(Out)					
2/1	423					
3/1	394					
4/1	798					
5/1	315					
6/1	226					

Junction: Unnamed Junction								
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1 (Connaught Road (West))	2.75	0.00	Y	Arm 5 Left	22.50	100.0 %	1772	1772
1/2 (Connaught Road (West))	2.75	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1890	1890
2/1	4.00	0.00	V	Arm 4 Right	22.50	98.6 %	- 1887	1007
(Hartmann Road)	4.00	0.00	T	Arm 6 Left	10.00	1.4 %		1007
3/1	4.00	0.00	V	Arm 4 Ahead	Inf	96.7 %	2005	2005
(Connaught Road (East))	4.00	0.00	Y	Arm 5 Right	10.00	3.3 %	2005	2005
4/1		Infinite Saturation Flow					Inf	Inf
5/1		Infinite Saturation Flow					Inf	Inf
6/1			Infinite S	aturation Flow			Inf	Inf

Scenario 6: '2021 With Development PM Peak' (FG6: '2021 With Development PM Peak', Plan 1: 'Peds Every Cycle')

Traffic Flows, Desired

Desired	FIOW :							
		Destination						
		А	В	С	Tot.			
	А	0	443	320	763			
Origin	В	235	0	11	246			
	С	272	12	0	284			
	Tot.	507	455	331	1293			

Traffic Lane Flows

Lane	Scenario 6: 2021 With Development PM Peak						
Junction: Unnamed Junction							
1/1 (short)	443						
1/2 (with short)	763(In) 320(Out)						
2/1	246						
3/1	284						
4/1	507						
5/1	455						
6/1	331						

Junction: Unnamed Junction								
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1 (Connaught Road (West))	2.75	0.00	Y	Arm 5 Left	22.50	100.0 %	1772	1772
1/2 (Connaught Road (West))	2.75	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1890	1890
2/1	4.00	0.00	~	Arm 4 Right	22.50	95.5 %	1882	1882
(Hartmann Road)	4.00	0.00	T	Arm 6 Left	10.00	4.5 %		
3/1	4 00	0.00	v	Arm 4 Ahead	Inf	95.8 %	2002	2002
(Connaught Road (East))	(Connaught Road (East)) 4.00	0.00	ř	Arm 5 Right	10.00	4.2 %	2002	2002
4/1		Infinite Saturation Flow					Inf	Inf
5/1		Infinite Saturation Flow					Inf	Inf
6/1			Infinite S	aturation Flow			Inf	Inf

Scenario 7: '2023 Without Development AM Peak' (FG7: '2023 Without Development AM Peak', Plan 1: 'Peds Every Cycle') Traffic Flows, Desired

Desired	Flow	:

	Destination							
		А	В	С	Tot.			
	А	0	357	228	585			
Origin	В	483	0	46	529			
	С	392	37	0	429			
	Tot.	875	394	274	1543			

Traffic Lane Flows

Lane	Scenario 7: 2023 Without Development AM Peak						
Junction: Unnamed Junction							
1/1 (short)	357						
1/2 (with short)	585(In) 228(Out)						
2/1	529						
3/1	429						
4/1	875						
5/1	394						
6/1	274						

Junction: Unnamed Junction								
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1 (Connaught Road (West))	2.75	0.00	Y	Arm 5 Left	22.50	100.0 %	1772	1772
1/2 (Connaught Road (West))	2.75	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1890	1890
2/1	4.00	0.00	~	Arm 4 Right	22.50	91.3 %	1876	1876
(Hartmann Road)	4.00	0.00	T	Arm 6 Left	10.00	8.7 %		
3/1	4.00	0.00	v	Arm 4 Ahead	Inf	91.4 %	1090	1080
(Connaught Road (East))	4.00	0.00	Y	Arm 5 Right	10.00	8.6 %	1989	1989
4/1		Infinite Saturation Flow					Inf	Inf
5/1		Infinite Saturation Flow					Inf	Inf
6/1			Infinite S	aturation Flow			Inf	Inf

Scenario 8: '2023 Without Development PM Peak' (FG8: '2023 Without Development PM Peak', Plan 1: 'Peds Every Cycle')

Traffic Flows, Desired

Desired	FIOW :						
	Destination						
		А	В	С	Tot.		
Origin	А	0	438	329	767		
	В	314	0	33	347		
	С	279	42	0	321		
	Tot.	593	480	362	1435		

Traffic Lane Flows

Lane	Scenario 8: 2023 Without Development PM Peak					
Junction: Unnamed Junction						
1/1 (short)	438					
1/2 (with short)	767(In) 329(Out)					
2/1	347					
3/1	321					
4/1	593					
5/1	480					
6/1	362					

Junction: Unnamed Junction								
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1 (Connaught Road (West))	2.75	0.00	Y	Arm 5 Left	22.50	100.0 %	1772	1772
1/2 (Connaught Road (West))	2.75	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1890	1890
2/1	4.00	0.00	~	Arm 4 Right	22.50	90.5 %	1875	1875
(Hartmann Road)	4.00	0.00	T	Arm 6 Left	10.00	9.5 %		
3/1	4.00	0.00	V	Arm 4 Ahead	Inf	86.9 %	1076	1076
(Connaught Road (East))	4.00	0.00	Y	Arm 5 Right	10.00	13.1 %	1976	1976
4/1		Infinite Saturation Flow					Inf	Inf
5/1		Infinite Saturation Flow					Inf	Inf
6/1			Infinite S	aturation Flow			Inf	Inf

Scenario 9: '2023 With Development AM Peak' (FG9: '2023 With Development AM Peak', Plan 1: 'Peds Every Cycle')

Traffic Flows, Desired

Desired Flow :							
		Destination					
		А	В	С	Tot.		
	А	0	327	228	555		
Origin	В	455	0	12	467		
	С	392	13	0	405		
	Tot.	847	340	240	1427		

Traffic Lane Flows

Lane	Scenario 9: 2023 With Development AM Peak					
Junction: Unnamed Junction						
1/1 (short)	327					
1/2 (with short)	555(In) 228(Out)					
2/1	467					
3/1	405					
4/1	847					
5/1	340					
6/1	240					

Junction: Unnamed Junction								
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1 (Connaught Road (West))	2.75	0.00	Y	Arm 5 Left	22.50	100.0 %	1772	1772
1/2 (Connaught Road (West))	2.75	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1890	1890
2/1	4.00	0.00	V	Arm 4 Right	22.50	97.4 %	1885	1995
(Hartmann Road)	4.00	0.00	I	Arm 6 Left	10.00	2.6 %		1005
3/1	4.00	0.00	V	Arm 4 Ahead	Inf	96.8 %	2005	2005
(Connaught Road (East)) 4.00	4.00	0.00	Y	Arm 5 Right	10.00	3.2 %	2005	2005
4/1		Infinite Saturation Flow					Inf	Inf
5/1		Infinite Saturation Flow Inf					Inf	Inf
6/1			Infinite S	aturation Flow			Inf	Inf

Scenario 10: '2023 With Development PM Peak' (FG10: '2023 With Development PM Peak', Plan 1: 'Peds Every Cycle')

Traffic Flows, Desired

Desired Flow :							
		Destination					
		А	В	С	Tot.		
	А	0	466	329	795		
Origin	В	244	0	11	255		
	С	279	12	0	291		
	Tot.	523	478	340	1341		

Traffic Lane Flows

Lane	Scenario 10: 2023 With Development PM Peak					
Junction: Unnamed Junction						
1/1 (short)	466					
1/2 (with short)	795(In) 329(Out)					
2/1	255					
3/1	291					
4/1	523					
5/1	478					
6/1	340					

Junction: Unnamed Junction								
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1 (Connaught Road (West))	2.75	0.00	Y	Arm 5 Left	22.50	100.0 %	1772	1772
1/2 (Connaught Road (West))	2.75	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1890	1890
2/1	4 00		Y	Arm 4 Right	22.50	95.7 %	1883	1883
(Hartmann Road)	4.00	0.00		Arm 6 Left	10.00	4.3 %		1003
3/1	4 00	0.00	v	Arm 4 Ahead	Inf	95.9 %	2002	2002
(Connaught Road (East))	Connaught Road (East)) 4.00 0.	0.00	ř	Arm 5 Right	10.00	4.1 %	2003	2003
4/1		Infinite Saturation Flow					Inf	Inf
5/1	Infinite Saturation Flow Inf					Inf		
6/1			Infinite S	aturation Flow			Inf	Inf

Scenario 11: '2023 With Development AM Peak - Sensitivity Test' (FG11: '2023 With Development AM Peak - Sensitivity Test', Plan 1: 'Peds Every Cycle')

Traffic Flows, Desired Desired Flow :

Desileu	SILEU FIOW .				
		I	Destinatior	۱	
		А	В	С	Tot.
	А	0	336	228	564
Origin	В	487	0	13	500
	С	392	13	0	405
	Tot.	879	349	241	1469

Traffic Lane Flows

Lane	Scenario 11: 2023 With Development AM Peak - Sensitivity Test				
Junction: Unnamed Junction					
1/1 (short)	336				
1/2 (with short)	564(In) 228(Out)				
2/1	500				
3/1	405				
4/1	879				
5/1	349				
6/1	241				

Junction: Unnamed Junction								
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1 (Connaught Road (West))	2.75	0.00	Y	Arm 5 Left	22.50	100.0 %	1772	1772
1/2 (Connaught Road (West))	2.75	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1890	1890
2/1	4 00	0.00	Y	Arm 4 Right	22.50	97.4 %	1885	1885
(Hartmann Road)		0.00	•	Arm 6 Left	10.00	2.6 %	1000	
3/1	3/1 ght Road (East)) 4.00 0.00	Ň	Arm 4 Ahead	Inf	96.8 %	2005	2005	
(Connaught Road (East))		0.00	Y	Arm 5 Right	10.00	3.2 %	2005	2005
4/1		Infinite Saturation Flow					Inf	Inf
5/1		Infinite Saturation Flow					Inf	Inf
6/1			Infinite S	aturation Flow			Inf	Inf

Scenario 12: '2023 With Development PM Peak - Sensitivity Test' (FG12: '2023 With Development PM Peak - Sensitivity Test', Plan 1: 'Peds Every Cycle')

Traffic Flows, Desired

Desired Flow :				
		I	Destinatior	۱
		А	В	
	А	0	496	

	А	0	496	329	825
Origin	В	250	0	11	261
	С	279	12	0	291
	Tot.	529	508	340	1377

С

Tot.

Traffic Lane Flows

Lane	Scenario 12: 2023 With Development PM Peak - Sensitivity Test				
Junction: Unnamed Junction					
1/1 (short)	496				
1/2 (with short)	825(In) 329(Out)				
2/1	261				
3/1	291				
4/1	529				
5/1	508				
6/1	340				

Junction: Unnamed Junc	Junction: Unnamed Junction												
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)					
1/1 (Connaught Road (West))	2.75	0.00	Y	Arm 5 Left	22.50	100.0 %	1772	1772					
1/2 (Connaught Road (West))	2.75	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1890	1890					
2/1	4 00	0.00	v	Arm 4 Right	22.50	95.8 %	1883	1883					
(Hartmann Road)	4.00	0.00	1	Arm 6 Left	10.00	4.2 %	1000	1000					
3/1	4.00	0.00	X	Arm 4 Ahead	Inf	95.9 %	2002	2002					
(Connaught Road (East))	4.00	0.00	ř	Arm 5 Right	10.00	4.1 %	2003	2003					
4/1			Infinite S	aturation Flow			Inf	Inf					
5/1			Infinite S		Inf	Inf							
6/1			Infinite S	aturation Flow		Inf	Inf						

Scenario 1: 'Existing AM Peak' (FG1: 'Existing AM Peak', Plan 1: 'Peds Every Cycle') Stage Sequence Diagram



Stage Timings

Stage	1	2	3
Duration	26	6	35
Change Point	0	31	49

Signal Timings Diagram



Full Input Data And Results Network Layout Diagram



Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Apron Stand Replacement Project	-	-	N/A	-	-		-	-	-	-	-	-	59.8%
Unnamed Junction	-	-	N/A	-	-		-	-	-	-	-	-	59.8%
1/2+1/1	Connaught Road (West) Left Ahead	U	N/A	N/A	A	G	1	26:66	40	446	1890:1772	999	44.6%
2/1	Hartmann Road Right Left	U	N/A	N/A	С		1	35	-	421	1876	704	59.8%
3/1	Connaught Road (East) Ahead Right	О	N/A	N/A	В		1	26	-	278	1979	477	58.3%
4/1		U	N/A	N/A	-		-	-	-	628	Inf	Inf	0.0%
5/1		U	N/A	N/A	-		-	-	-	357	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	160	Inf	Inf	0.0%
ltem	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network: Apron Stand Replacement Project	-	-	33	0	1	6.5	1.8	0.0	8.4	-	-	-	-
Unnamed Junction	-	-	33	0	1	6.5	1.8	0.0	8.4	-	-	-	-
1/2+1/1	446	446	-	-	-	1.4	0.4	-	1.8	14.5	3.1	0.4	3.5
2/1	421	421	-	-	-	2.8	0.7	-	3.6	30.5	9.0	0.7	9.7
3/1	278	278	33	0	1	2.3	0.7	0.0	3.0	39.2	6.5	0.7	7.2
4/1	628	628	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
5/1	357	357	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	160	160	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0

Full Input Data And Results							
	C1	PRC for Signalled Lanes (%): PRC Over All Lanes (%):	50.4 50.4	Total Delay for Signalled Lanes (pcuHr): Total Delay Over All Lanes(pcuHr):	8.39 8.39	Cycle Time (s):	96

Full Input Data And Results Scenario 2: 'Existing PM Peak' (FG2: 'Existing PM Peak', Plan 1: 'Peds Every Cycle') Stage Sequence Diagram



Stage Timings

Stage	1	2	3
Duration	26	6	35
Change Point	0	31	49

Signal Timings Diagram



Full Input Data And Results Network Layout Diagram



Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Apron Stand Replacement Project	-	-	N/A	-	-		-	-	-	-	-	-	70.5%
Unnamed Junction	-	-	N/A	-	-		-	-	-	-	-	-	70.5%
1/2+1/1	Connaught Road (West) Left Ahead	U	N/A	N/A	A	G	1	26:66	40	616	1890:1772	873	70.5%
2/1	Hartmann Road Right Left	U	N/A	N/A	С		1	35	-	487	1876	704	69.2%
3/1	Connaught Road (East) Ahead Right	о	N/A	N/A	В		1	26	-	186	1954	355	52.4%
4/1		U	N/A	N/A	-		-	-	-	590	Inf	Inf	0.0%
5/1		U	N/A	N/A	-		-	-	-	446	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	253	Inf	Inf	0.0%
ltem	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network: Apron Stand Replacement Project	-	-	37	0	2	7.1	2.8	0.1	10.0	-	-	-	-
Unnamed Junction	-	-	37	0	2	7.1	2.8	0.1	10.0	-	-	-	-
1/2+1/1	616	616	-	-	-	2.3	1.2	-	3.4	20.2	4.5	1.2	5.7
2/1	487	487	-	-	-	3.4	1.1	-	4.5	33.6	11.0	1.1	12.1
3/1	186	186	37	0	2	1.4	0.5	0.1	2.1	39.7	3.9	0.5	4.5
4/1	590	590	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
5/1	446	446	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	253	253	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0

Full Input Data And Results						
	C1	PRC for Signalled Lanes (%): PRC Over All Lanes (%):	27.6 27.6	Total Delay for Signalled Lanes (pcuHr): Total Delay Over All Lanes(pcuHr):	10.04 10.04	Cycle Time (s): 96

Full Input Data And Results **Scenario 3: '2021 Without Development AM Peak'** (FG3: '2021 Without Development AM Peak', Plan 1: 'Peds Every Cycle')



Stage Timings

Stage	1	2	3
Duration	31	6	30
Change Point	0	36	54

Signal Timings Diagram



Full Input Data And Results Network Layout Diagram



Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Apron Stand Replacement Project	-	-	N/A	-	-		-	-	-	-	-	-	83.9%
Unnamed Junction	-	-	N/A	-	-		-	-	-	-	-	-	83.9%
1/2+1/1	Connaught Road (West) Left Ahead	U	N/A	N/A	A	G	1	31:66	35	581	1890:1772	907	64.1%
2/1	Hartmann Road Right Left	U	N/A	N/A	С		1	30	-	507	1877	606	83.6%
3/1	Connaught Road (East) Ahead Right	о	N/A	N/A	В		1	31	-	418	1989	498	83.9%
4/1		U	N/A	N/A	-		-	-	-	847	Inf	Inf	0.0%
5/1		U	N/A	N/A	-		-	-	-	396	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	263	Inf	Inf	0.0%
ltem	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network: Apron Stand Replacement Project	-	-	34	0	3	9.9	5.8	0.0	15.7	-	-	-	-
Unnamed Junction	-	-	34	0	3	9.9	5.8	0.0	15.7	-	-	-	-
1/2+1/1	581	581	-	-	-	2.0	0.9	-	2.9	18.1	4.4	0.9	5.3
2/1	507	507	-	-	-	4.2	2.4	-	6.7	47.5	12.5	2.4	15.0
3/1	418	418	34	0	3	3.6	2.4	0.0	6.1	52.6	10.4	2.4	12.9
4/1	847	847	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
5/1	396	396	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	263	263	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0

Full Input Data And Results							
	C1	PRC for Signalled Lanes (%): PRC Over All Lanes (%):	7.3 7.3	Total Delay for Signalled Lanes (pcuHr): Total Delay Over All Lanes(pcuHr):	15.71 15.71	Cycle Time (s):	96

Full Input Data And Results **Scenario 4: '2021 Without Development PM Peak'** (FG4: '2021 Without Development PM Peak', Plan 1: 'Peds Every Cycle')



Stage Timings

Stage	1	2	3
Duration	38	6	23
Change Point	0	43	61

Signal Timings Diagram



Full Input Data And Results Network Layout Diagram



Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Apron Stand Replacement Project	-	-	N/A	-	-		-	-	-	-	-	-	76.3%
Unnamed Junction	-	-	N/A	-	-		-	-	-	-	-	-	76.3%
1/2+1/1	Connaught Road (West) Left Ahead	U	N/A	N/A	А	G	1	38:66	28	758	1890:1772	994	76.3%
2/1	Hartmann Road Right Left	U	N/A	N/A	С		1	23	-	349	1875	469	74.5%
3/1	Connaught Road (East) Ahead Right	о	N/A	N/A	В		1	38	-	314	1975	427	73.6%
4/1		U	N/A	N/A	-		-	-	-	588	Inf	Inf	0.0%
5/1		U	N/A	N/A	-		-	-	-	480	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	353	Inf	Inf	0.0%
ltem	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network: Apron Stand Replacement Project	-	-	40	0	2	8.1	4.4	0.1	12.5	-	-	-	-
Unnamed Junction	-	-	40	0	2	8.1	4.4	0.1	12.5	-	-	-	-
1/2+1/1	758	758	-	-	-	2.7	1.6	-	4.3	20.3	9.0	1.6	10.6
2/1	349	349	-	-	-	3.2	1.4	-	4.6	47.9	8.5	1.4	10.0
3/1	314	314	40	0	2	2.2	1.4	0.1	3.6	41.8	7.5	1.4	8.9
4/1	588	588	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
5/1	480	480	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	353	353	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
Full Input Data And Results													
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	C1	PRC for Signalled Lanes (%): PRC Over All Lanes (%):	18.0 18.0	Total Delay for Signalled Lanes (pcuHr): Total Delay Over All Lanes(pcuHr):	12.55 12.55	Cycle Time (s):	96						

Scenario 5: '2021 With Development AM Peak' (FG5: '2021 With Development AM Peak', Plan 1: 'Peds Every Cycle')



Stage Timings

Stage	1	2	3
Duration	32	6	29
Change Point	0	37	55





Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Apron Stand Replacement Project	-	-	N/A	-	-		-	-	-	-	-	-	72.1%
Unnamed Junction	-	-	N/A	-	-		-	-	-	-	-	-	72.1%
1/2+1/1	Connaught Road (West) Left Ahead	U	N/A	N/A	A	G	1	32:66	34	522	1890:1772	881	59.3%
2/1	Hartmann Road Right Left	U	N/A	N/A	С		1	29	-	423	1887	590	71.7%
3/1	Connaught Road (East) Ahead Right	о	N/A	N/A	В		1	32	-	394	2005	547	72.1%
4/1		U	N/A	N/A	-		-	-	-	798	Inf	Inf	0.0%
5/1		U	N/A	N/A	-		-	-	-	315	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	226	Inf	Inf	0.0%
ltem	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network: Apron Stand Replacement Project	-	-	12	0	1	8.5	3.2	0.0	11.7	-	-	-	-
Unnamed Junction	-	-	12	0	1	8.5	3.2	0.0	11.7	-	-	-	-
1/2+1/1	522	522	-	-	-	1.9	0.7	-	2.6	17.9	4.3	0.7	5.1
2/1	423	423	-	-	-	3.4	1.3	-	4.7	39.9	10.0	1.3	11.2
3/1	394	394	12	0	1	3.2	1.3	0.0	4.5	40.7	9.4	1.3	10.7
4/1	798	798	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
5/1	315	315	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	226	226	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0

Full Input Data And Results						
	C1	PRC for Signalled Lanes (%): PRC Over All Lanes (%):	24.9 24.9	Total Delay for Signalled Lanes (pcuHr): Total Delay Over All Lanes(pcuHr):	11.74 11.74	Cycle Time (s): 96

Scenario 6: '2021 With Development PM Peak' (FG6: '2021 With Development PM Peak', Plan 1: 'Peds Every Cycle')



Stage Timings

Stage	1	2	3
Duration	44	6	17
Change Point	0	49	67





Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Apron Stand Replacement Project	-	-	N/A	-	-		-	-	-	-	-	-	69.7%
Unnamed Junction	-	-	N/A	-	-		-	-	-	-	-	-	69.7%
1/2+1/1	Connaught Road (West) Left Ahead	U	N/A	N/A	А	G	1	44:66	22	763	1890:1772	1110	68.7%
2/1	Hartmann Road Right Left	U	N/A	N/A	С		1	17	-	246	1882	353	69.7%
3/1	Connaught Road (East) Ahead Right	о	N/A	N/A	В		1	44	-	284	2002	696	40.8%
4/1		U	N/A	N/A	-		-	-	-	507	Inf	Inf	0.0%
5/1		U	N/A	N/A	-		-	-	-	455	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	331	Inf	Inf	0.0%
ltem	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network: Apron Stand Replacement Project	-	-	11	0	0	6.0	2.6	0.0	8.6	-	-	-	-
Unnamed Junction	-	-	11	0	0	6.0	2.6	0.0	8.6	-	-	-	-
1/2+1/1	763	763	-	-	-	2.2	1.1	-	3.3	15.5	6.9	1.1	8.0
2/1	246	246	-	-	-	2.5	1.1	-	3.6	53.0	6.1	1.1	7.2
3/1	284	284	11	0	0	1.4	0.3	0.0	1.7	21.8	5.7	0.3	6.0
4/1	507	507	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
5/1	455	455	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	331	331	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0

Full Input Data And Results							
	C1	PRC for Signalled Lanes (%): PRC Over All Lanes (%):	29.1 29.1	Total Delay for Signalled Lanes (pcuHr): Total Delay Over All Lanes(pcuHr):	8.63 8.63	Cycle Time (s):	96

Full Input Data And Results **Scenario 7: '2023 Without Development AM Peak'** (FG7: '2023 Without Development AM Peak', Plan 1: 'Peds Every Cycle')



Stage Timings

Stage	1	2	3
Duration	31	6	30
Change Point	0	36	54





Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Apron Stand Replacement Project	-	-	N/A	-	-		-	-	-	-	-	-	87.3%
Unnamed Junction	-	-	N/A	-	-		-	-	-	-	-	-	87.3%
1/2+1/1	Connaught Road (West) Left Ahead	U	N/A	N/A	A	G	1	31:66	35	585	1890:1772	897	65.2%
2/1	Hartmann Road Right Left	U	N/A	N/A	С		1	30	-	529	1876	606	87.3%
3/1	Connaught Road (East) Ahead Right	ο	N/A	N/A	В		1	31	-	429	1989	499	85.9%
4/1		U	N/A	N/A	-		-	-	-	875	Inf	Inf	0.0%
5/1		U	N/A	N/A	-		-	-	-	394	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	274	Inf	Inf	0.0%
ltem	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network: Apron Stand Replacement Project	-	-	33	0	4	10.3	6.9	0.0	17.3	-	-	-	-
Unnamed Junction	-	-	33	0	4	10.3	6.9	0.0	17.3	-	-	-	-
1/2+1/1	585	585	-	-	-	2.1	0.9	-	3.0	18.5	4.6	0.9	5.5
2/1	529	529	-	-	-	4.5	3.2	-	7.7	52.3	13.2	3.2	16.4
3/1	429	429	33	0	4	3.8	2.8	0.0	6.6	55.5	10.8	2.8	13.7
4/1	875	875	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
5/1	394	394	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	274	274	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0

Full Input Data And Results							
	C1	PRC for Signalled Lanes (%): PRC Over All Lanes (%):	3.1 3.1	Total Delay for Signalled Lanes (pcuHr): Total Delay Over All Lanes(pcuHr):	17.31 17.31	Cycle Time (s):	96

Full Input Data And Results Scenario 8: '2023 Without Development PM Peak' (FG8: '2023 Without Development PM Peak', Plan 1: 'Peds Every Cycle')



Stage Timings

Stage	1	2	3
Duration	39	6	22
Change Point	0	44	62





Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Apron Stand Replacement Project	-	-	N/A	-	-		-	-	-	-	-	-	77.2%
Unnamed Junction	-	-	N/A	-	-		-	-	-	-	-	-	77.2%
1/2+1/1	Connaught Road (West) Left Ahead	U	N/A	N/A	A	G	1	39:66	27	767	1890:1772	1006	76.2%
2/1	Hartmann Road Right Left	U	N/A	N/A	С		1	22	-	347	1875	449	77.2%
3/1	Connaught Road (East) Ahead Right	о	N/A	N/A	В		1	39	-	321	1976	440	72.9%
4/1		U	N/A	N/A	-		-	-	-	593	Inf	Inf	0.0%
5/1		U	N/A	N/A	-		-	-	-	480	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	362	Inf	Inf	0.0%
ltem	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network: Apron Stand Replacement Project	-	-	40	0	2	8.1	4.5	0.1	12.8	-	-	-	-
Unnamed Junction	-	-	40	0	2	8.1	4.5	0.1	12.8	-	-	-	-
1/2+1/1	767	767	-	-	-	2.7	1.6	-	4.3	20.1	9.3	1.6	10.8
2/1	347	347	-	-	-	3.3	1.6	-	4.9	51.1	8.6	1.6	10.2
3/1	321	321	40	0	2	2.2	1.3	0.1	3.6	40.3	7.7	1.3	9.0
4/1	593	593	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
5/1	480	480	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	362	362	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0

Full Input Data And Results							
	C1	PRC for Signalled Lanes (%): PRC Over All Lanes (%):	16.5 16.5	Total Delay for Signalled Lanes (pcuHr): Total Delay Over All Lanes(pcuHr):	12.80 12.80	Cycle Time (s):	96

Scenario 9: '2023 With Development AM Peak' (FG9: '2023 With Development AM Peak', Plan 1: 'Peds Every Cycle')



Stage Timings

Stage	1	2	3
Duration	32	6	29
Change Point	0	37	55





Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Apron Stand Replacement Project	-	-	N/A	-	-		-	-	-	-	-	-	79.3%
Unnamed Junction	-	-	N/A	-	-		-	-	-	-	-	-	79.3%
1/2+1/1	Connaught Road (West) Left Ahead	U	N/A	N/A	A	G	1	32:66	34	555	1890:1772	892	62.2%
2/1	Hartmann Road Right Left	U	N/A	N/A	С		1	29	-	467	1885	589	79.3%
3/1	Connaught Road (East) Ahead Right	о	N/A	N/A	В		1	32	-	405	2005	526	77.0%
4/1		U	N/A	N/A	-		-	-	-	847	Inf	Inf	0.0%
5/1		U	N/A	N/A	-		-	-	-	340	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	240	Inf	Inf	0.0%
ltem	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network: Apron Stand Replacement Project	-	-	12	0	1	9.2	4.3	0.0	13.6	-	-	-	-
Unnamed Junction	-	-	12	0	1	9.2	4.3	0.0	13.6	-	-	-	-
1/2+1/1	555	555	-	-	-	2.0	0.8	-	2.8	18.1	4.5	0.8	5.3
2/1	467	467	-	-	-	3.9	1.9	-	5.8	44.5	11.3	1.9	13.1
3/1	405	405	12	0	1	3.4	1.6	0.0	5.0	44.4	9.9	1.6	11.5
4/1	847	847	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
5/1	340	340	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	240	240	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0

Full Input Data And Results							
	C1	PRC for Signalled Lanes (%): PRC Over All Lanes (%):	13.5 13.5	Total Delay for Signalled Lanes (pcuHr): Total Delay Over All Lanes(pcuHr):	13.56 13.56	Cycle Time (s):	96

Scenario 10: '2023 With Development PM Peak' (FG10: '2023 With Development PM Peak', Plan 1: 'Peds Every Cycle')



Stage Timings

Stage	1	2	3
Duration	44	6	17
Change Point	0	49	67





Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Apron Stand Replacement Project	-	-	N/A	-	-		-	-	-	-	-	-	72.2%
Unnamed Junction	-	-	N/A	-	-		-	-	-	-	-	-	72.2%
1/2+1/1	Connaught Road (West) Left Ahead	U	N/A	N/A	A	G	1	44:66	22	795	1890:1772	1116	71.2%
2/1	Hartmann Road Right Left	U	N/A	N/A	С		1	17	-	255	1883	353	72.2%
3/1	Connaught Road (East) Ahead Right	о	N/A	N/A	В		1	44	-	291	2003	661	44.0%
4/1		U	N/A	N/A	-		-	-	-	523	Inf	Inf	0.0%
5/1		U	N/A	N/A	-		-	-	-	478	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	340	Inf	Inf	0.0%
ltem	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network: Apron Stand Replacement Project	-	-	11	0	0	6.4	2.9	0.0	9.3	-	-	-	-
Unnamed Junction	-	-	11	0	0	6.4	2.9	0.0	9.3	-	-	-	-
1/2+1/1	795	795	-	-	-	2.3	1.2	-	3.6	16.1	7.4	1.2	8.7
2/1	255	255	-	-	-	2.6	1.3	-	3.9	54.5	6.4	1.3	7.6
3/1	291	291	11	0	0	1.4	0.4	0.0	1.9	22.9	6.0	0.4	6.4
4/1	523	523	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
5/1	478	478	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	340	340	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0

Full Input Data And Results							
	C1	PRC for Signalled Lanes (%): PRC Over All Lanes (%):	24.6 24.6	Total Delay for Signalled Lanes (pcuHr): Total Delay Over All Lanes(pcuHr):	9.27 9.27	Cycle Time (s):	96

Full Input Data And Results Scenario 11: '2023 With Development AM Peak - Sensitivity Test' (FG11: '2023 With Development AM Peak -Sensitivity Test', Plan 1: 'Peds Every Cycle')

Stage Sequence Diagram



Stage Timings

Stage	1	2	3
Duration	31	6	30
Change Point	0	36	54





Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Apron Stand Replacement Project	-	-	N/A	-	-		-	-	-	-	-	-	82.1%
Unnamed Junction	-	-	N/A	-	-		-	-	-	-	-	-	82.1%
1/2+1/1	Connaught Road (West) Left Ahead	U	N/A	N/A	A	G	1	31:66	35	564	1890:1772	880	64.1%
2/1	Hartmann Road Right Left	U	N/A	N/A	С		1	30	-	500	1885	609	82.1%
3/1	Connaught Road (East) Ahead Right	о	N/A	N/A	В		1	31	-	405	2005	505	80.2%
4/1		U	N/A	N/A	-		-	-	-	879	Inf	Inf	0.0%
5/1		U	N/A	N/A	-		-	-	-	349	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	241	Inf	Inf	0.0%
ltem	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network: Apron Stand Replacement Project	-	-	12	0	1	9.7	5.0	0.0	14.7	-	-	-	-
Unnamed Junction	-	-	12	0	1	9.7	5.0	0.0	14.7	-	-	-	-
1/2+1/1	564	564	-	-	-	2.0	0.9	-	2.9	18.7	4.6	0.9	5.4
2/1	500	500	-	-	-	4.2	2.2	-	6.4	45.9	12.2	2.2	14.4
3/1	405	405	12	0	1	3.5	1.9	0.0	5.4	48.2	10.0	1.9	12.0
4/1	879	879	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
5/1	349	349	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	241	241	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0

Full Input Data And Results							
	C1	PRC for Signalled Lanes (%): PRC Over All Lanes (%):	9.6 9.6	Total Delay for Signalled Lanes (pcuHr): Total Delay Over All Lanes(pcuHr):	14.72 14.72	Cycle Time (s):	96

Full Input Data And Results Scenario 12: '2023 With Development PM Peak - Sensitivity Test' (FG12: '2023 With Development PM Peak -Sensitivity Test', Plan 1: 'Peds Every Cycle')

Stage Sequence Diagram



Stage Timings

Stage	1	2	3
Duration	44	6	17
Change Point	0	49	67





Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Apron Stand Replacement Project	-	-	N/A	-	-		-	-	-	-	-	-	73.9%
Unnamed Junction	-	-	N/A	-	-		-	-	-	-	-	-	73.9%
1/2+1/1	Connaught Road (West) Left Ahead	U	N/A	N/A	A	G	1	44:66	22	825	1890:1772	1133	72.8%
2/1	Hartmann Road Right Left	U	N/A	N/A	С		1	17	-	261	1883	353	73.9%
3/1	Connaught Road (East) Ahead Right	О	N/A	N/A	В		1	44	-	291	2003	656	44.4%
4/1		U	N/A	N/A	-		-	-	-	529	Inf	Inf	0.0%
5/1		U	N/A	N/A	-		-	-	-	508	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	340	Inf	Inf	0.0%
ltem	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network: Apron Stand Replacement Project	-	-	11	0	0	6.5	3.1	0.0	9.6	-	-	-	-
Unnamed Junction	-	-	11	0	0	6.5	3.1	0.0	9.6	-	-	-	-
1/2+1/1	825	825	-	-	-	2.4	1.3	-	3.7	16.3	7.8	1.3	9.1
2/1	261	261	-	-	-	2.7	1.4	-	4.0	55.8	6.5	1.4	7.9
3/1	291	291	11	0	0	1.4	0.4	0.0	1.9	23.0	6.0	0.4	6.4
4/1	529	529	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
5/1	508	508	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	340	340	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0

Full Input Data And Results							
	C1	PRC for Signalled Lanes (%): PRC Over All Lanes (%):	21.7 21.7	Total Delay for Signalled Lanes (pcuHr): Total Delay Over All Lanes(pcuHr):	9.64 9.64	Cycle Time (s): 9	96

Full Input Data And Results Full Input Data And Results

User and Project Details

Project:	
Title:	
Location:	
File name:	Woolwich Manor Road, Hartmann Road v3 - 130620.lsg3x
Author:	
Company:	
Address:	
Notes:	

Network Layout Diagram



Phase Diagram



Phase Input Data

Phase Name	Phase Type	Assoc. Phase	Street Min	Cont Min		
А	Traffic		7	7		
В	Traffic		7	7		
С	Traffic		7	7		
D	Traffic		7	7		
Е	Pedestrian		5	5		
F	Pedestrian		5	5		
G	Pedestrian		5	5		
н	Pedestrian		5	5		
I	Pedestrian		5	5		
J	Pedestrian		5	5		
К	Pedestrian		5	5		
L	Pedestrian		5	5		
М	Dummy		3	3		

Phase Intergreens Matrix

	Starting Phase													
		А	В	С	D	Е	F	G	Н	I	J	κ	L	М
	А		-	7	7	5	-	-	11	-	9	-	12	3
	В	-		7	7	-	10	5	-	-	13	-	8	3
	С	6	6		-	-	11	-	9	5	-	-	9	3
	D	6	6	-		-	8	-	13		10	5	-	3
	Е	9	-	-	-		-	-	-	-	-	-	-	3
Terminating Phase	F	-	10	10	10	-		-	-	-	-	-	-	4
	G	-	10	-	-	-	-		-	-	-	-	-	4
	н	8	-	8	8	-	-	-		-	-	-	-	3
	I	-	-	8	-	-	-	-	-		-	-	-	3
	J	9	9	-	9	-	-	-	-	-		-	-	3
	к	-	-	-	8	-	-	-	-	-	-		-	3
	L	11	11	11	-	-	-	-	-	-	-	-		4
	М	2	2	2	2	2	2	2	2	2	2	2	2	

Phases in Stage

Stage No.	Phases in Stage
1	ABIK
2	CDEG
3	EFGHIJKL
4	М


Phase Delays

Term. Stage	Start Stage	Phase	Туре	Value	Cont value
1	2	А	Losing	1	1
1	2	В	Losing	1	1
2	1	С	Losing	4	4
2	1	D	Losing	4	4

Prohibited Stage Change

	To Stage								
		1	2	3	4				
	1		8	13	3				
From Stage	2	10		13	4				
	3	11	11		4				
	4	2	2	2					

Full Input Data And Results Give-Way Lane Input Data

Junction: Woolwich Manor Way/Hatmann Road/Fishguard Way												
Lane	Movement	Max Flow when Giving Way (PCU/Hr)	Min Flow when Giving Way (PCU/Hr)	Opposing Lane	Opp. Lane Coeff.	Opp. Mvmnts.	Right Turn Storage (PCU)	Non-Blocking Storage (PCU)	RTF	Right Turn Move up (s)	Max Turns in Intergreen (PCU)	
1/2 (Woolwich Manor Way)	7/1 (Right)	1439	0	3/1	1.09	All	2.00	-	0.50	2	2.00	
2/1 (Fishguard Way)	8/1 (Right)	1439	0	4/1	1.09	To 5/1 (Ahead) To 8/1 (Left)	2.00	2.00	0.50	2	2.00	
3/2 (Albert Road)	5/1 (Right)	1439	0	1/1	1.09	All	2.00	-	0.50	2	2.00	
4/1 (Hartmann Road)	6/1 (Right)	1439	0	2/1	1.09	To 6/1 (Left) To 7/1 (Ahead)	2.00	2.00	0.50	2	2.00	

Full Input Data And Results Lane Input Data

Junction: Woo	Junction: Woolwich Manor Way/Hatmann Road/Fishguard Way											
Lane	Lane Type	Phases	Start Disp.	End Disp.	Physical Length (PCU)	Sat Flow Type	Def User Saturation Flow (PCU/Hr)	Lane Width (m)	Gradient	Nearside Lane	Turns	Turning Radius (m)
1/1		•	2	2	60.0	Coom		0.75	0.00	X	Arm 5 Left	15.00
Manor Way)	U	A	2	3	60.0	Geom	-	2.75	0.00	I	Arm 6 Ahead	Inf
1/2 (Woolwich Manor Way)	ο	А	2	3	5.0	Geom	-	3.00	0.00	Y	Arm 7 Right	10.00
											Arm 6 Left	10.00
2/1 (Fishguard Way)	ο	с	2	3	60.0 Geom - 3.50 0.00 Y	Geom - 3.50 0.00	Y	Arm 7 Ahead	Inf			
											Arm 8 Right	15.00
3/1		B	2	3	4.0	Geom	_	2 75	0.00	Y	Arm 7 Left	9.00
(Albert Road)	0	В	2	3	4.0	Geom	-	2.75	0.00		Arm 8 Ahead	Inf
3/2 (Albert Road)	ο	В	2	3	60.0	Geom	-	3.00	0.00	Y	Arm 5 Right	15.00
											Arm 5 Ahead	10.00
4/1 (Hartmann Road)	ο	D	2	3	60.0	Geom	-	4.50	0.00	Y	Arm 6 Right	Inf
											Arm 8 Left	10.00
5/1 (Fishguard Way)	U		2	3	60.0	Inf	-	-	-	-	-	-
6/1 (Albert Road)	U		2	3	60.0	Inf	-	-	-	-	-	-
7/1 (Hartmann Road)	U		2	3	60.0	Inf	-	-	-	-	-	-
8/1 (Woolwich Manor Way)	U		2	3	60.0	Inf	-	-	-	-	-	-

Traffic Flow Groups										
Flow Group	Start Time	End Time	Duration	Formula						
1: 'Existing AM Peak'	08:00	09:00	01:00							
2: 'Existing PM Peak'	17:00	18:00	01:00							
3: '2021 Without Development AM Peak'	08:00	09:00	01:00							
4: '2021 Without Development PM Peak'	17:00	18:00	01:00							
5: '2021 With Development AM Peak'	08:00	09:00	01:00							
6: '2021 With Development PM Peak'	17:00	18:00	01:00							
7: '2023 Without Development AM Peak'	08:00	09:00	01:00							
8: '2023 Without Development PM Peak'	17:00	18:00	01:00							
9: '2023 With Development AM Peak'	08:00	09:00	01:00							
10: '2023 With Development PM Peak'	17:00	18:00	01:00							
11: '2023 With Development AM Peak - Sensitivity Test'	08:00	09:00	01:00							
12: '2023 With Development PM Peak - Sensitivity Test'	17:00	18:00	01:00							

Scenario 1: 'Existing AM Peak' (FG1: 'Existing AM Peak', Plan 1: 'Network Control Plan 1') Traffic Flows, Desired Desired Flow :

		Destination									
		А	В	С	D	Tot.					
	А	0	35	0	60	95					
Origin	В	7	0	19	184	210					
Ongin	С	0	0	0	1	1					
	D	40	281	0	0	321					
	Tot.	47	316	19	245	627					

Traffic Lane Flows

Lane	Scenario 1: Existing AM Peak
Junction: Woolwich Manor	Way/Hatmann Road/Fishguard Way
1/1 (with short)	321(In) 321(Out)
1/2 (short)	0
2/1	95
3/1 (short)	203
3/2 (with short)	210(In) 7(Out)
4/1	1
5/1	47
6/1	316
7/1	19
8/1	245

Lane Saturation Flows

Junction: Woolwich Manor Way/Hatmann Road/Fishguard Way										
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)		
1/1	2 75	0.00	~	Arm 5 Left	15.00	12.5 %	1867	1867		
(Woolwich Manor Way)	2.15	0.00	I	Arm 6 Ahead	Inf	87.5 %	1007	1007		
1/2 (Woolwich Manor Way)	3.00	0.00	Y	Arm 7 Right	10.00	0.0 %	1915	1915		
		0.00	Y	Arm 6 Left	10.00	36.8 %				
2/1 (Fishguard Way)	3.50			Arm 7 Ahead	Inf	0.0 %	1757	1757		
				Arm 8 Right	15.00	63.2 %				
3/1	2 75	0.00	v	Arm 7 Left	9.00	9.4 %	1861	1861		
(Albert Road)	2.15	0.00	I	Arm 8 Ahead	Inf	90.6 %	1001	1001		
3/2 (Albert Road)	3.00	0.00	Y	Arm 5 Right	15.00	100.0 %	1741	1741		
				Arm 5 Ahead	10.00	0.0 %				
4/1 (Hartmann Road)	4.50	0.00	Y	Arm 6 Right	Inf	0.0 %	1796	1796		
· · ·				Arm 8 Left	10.00	100.0 %				
5/1 (Fishguard Way Lane 1)			Infinite S	aturation Flow			Inf	Inf		
6/1 (Albert Road Lane 1)			Infinite S	aturation Flow			Inf	Inf		
7/1 (Hartmann Road Lane 1)			Infinite S	aturation Flow			Inf	Inf		
8/1 (Woolwich Manor Way Lane 1)			Infinite S	aturation Flow			Inf	Inf		

Scenario 2: 'Existing PM Peak' (FG2: 'Existing PM Peak', Plan 1: 'Network Control Plan 1') Traffic Flows, Desired Desired Flow :

	Destination								
A		А	В	С	D	Tot.			
	A	0	14	0	34	48			
	В	26	0	19	314	359			
Oligin	С	0	0	0	0	0			
	D	60	326	4	0	390			
	Tot.	86	340	23	348	797			

Traffic Lane Flows

Lane	Scenario 2: Existing PM Peak
Junction: Woolwich Manor	Way/Hatmann Road/Fishguard Way
1/1 (with short)	390(In) 386(Out)
1/2 (short)	4
2/1	48
3/1 (short)	333
3/2 (with short)	359(In) 26(Out)
4/1	0
5/1	86
6/1	340
7/1	23
8/1	348

Lane Saturation Flows

Junction: Woolwich Manor Way/Hatmann Road/Fishguard Way										
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)		
1/1	2 75	0.00	V	Arm 5 Left	15.00	15.5 %	1961	1961		
(Woolwich Manor Way)	2.75	0.00	I	Arm 6 Ahead	Inf	84.5 %	1001	1001		
1/2 (Woolwich Manor Way)	3.00	0.00	Y	Arm 7 Right	10.00	100.0 %	1665	1665		
		0.00	Y	Arm 6 Left	10.00	29.2 %				
2/1 (Fishguard Way)	3.50			Arm 7 Ahead	Inf	0.0 %	1763	1763		
				Arm 8 Right	15.00	70.8 %				
3/1	2 75	0.00	v	Arm 7 Left	9.00	5.7 %	1872	1872		
(Albert Road)	2.75	0.00	•	Arm 8 Ahead	Inf	94.3 %	1072	1012		
3/2 (Albert Road)	3.00	0.00	Y	Arm 5 Right	15.00	100.0 %	1741	1741		
				Arm 5 Ahead	10.00	0.0 %				
4/1 (Hartmann Road)	4.50	0.00	Y	Arm 6 Right	Inf	0.0 %	2065	2065		
				Arm 8 Left	10.00	0.0 %				
5/1 (Fishguard Way Lane 1)			Infinite S	aturation Flow			Inf	Inf		
6/1 (Albert Road Lane 1)			Infinite S	aturation Flow			Inf	Inf		
7/1 (Hartmann Road Lane 1)		Infinite Saturation Flow						Inf		
8/1 (Woolwich Manor Way Lane 1)			Infinite S	aturation Flow			Inf	Inf		

Scenario 3: '2021 Without Development AM Peak' (FG3: '2021 Without Development AM Peak', Plan 1: 'Network Control Plan 1') Traffic Flows, Desired

Desired Flow :

	Destination									
		A	В	С	D	Tot.				
A B	0	40	0	69	109					
	В	8	0	22	218	248				
Oligin	С	0	0	0	1	1				
	D	46	346	0	0	392				
	Tot.	54	386	22	288	750				

Traffic Lane Flows

Lane	Scenario 3: 2021 Without Development AM Peak						
Junction: Woolwich Manor Way/Hatmann Road/Fishguard							
1/1 (with short)	392(In) 392(Out)						
1/2 (short)	0						
2/1	109						
3/1 (short)	240						
3/2 (with short)	248(In) 8(Out)						
4/1	1						
5/1	54						
6/1	386						
7/1	22						
8/1	288						

Lane Saturation Flows

Junction: Woolwich Manor Way/Hatmann Road/Fishguard Way											
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)			
1/1	2 75	0.00	~	Arm 5 Left	15.00	11.7 %	1868	1000			
(Woolwich Manor Way)	2.75	0.00		Arm 6 Ahead	Inf	88.3 %	1000	1000			
1/2 (Woolwich Manor Way)	3.00	0.00	Y	Arm 7 Right	10.00	0.0 %	1915	1915			
				Arm 6 Left	10.00	36.7 %					
2/1 (Fishguard Way)	3.50	0.00	Y	Arm 7 Ahead	Inf	0.0 %	1757	1757			
(Arm 8 Right	15.00	63.3 %					
3/1	2 75	0.00	v	Arm 7 Left	9.00	9.2 %	1862	1862			
(Albert Road)	2.75	0.00	•	Arm 8 Ahead	Inf	90.8 %	1002	1002			
3/2 (Albert Road)	3.00	0.00	Y	Arm 5 Right	15.00	100.0 %	1741	1741			
			Y	Arm 5 Ahead	10.00	0.0 %	1796	1796			
4/1 (Hartmann Road)	4.50	0.00		Arm 6 Right	Inf	0.0 %					
· · · ·				Arm 8 Left	10.00	100.0 %					
5/1 (Fishguard Way Lane 1)			Infinite S	aturation Flow			Inf	Inf			
6/1 (Albert Road Lane 1)		Infinite Saturation Flow						Inf			
7/1 (Hartmann Road Lane 1)		Infinite Saturation Flow Inf Inf									
8/1 (Woolwich Manor Way Lane 1)			Infinite S	aturation Flow			Inf	Inf			

Scenario 4: '2021 Without Development PM Peak' (FG4: '2021 Without Development PM Peak', Plan 1: 'Network

Full Input Data And Results Control Plan 1') Traffic Flows, Desired Desired Flow :

	Destination										
		А	В	С	D	Tot.					
	А	0	16	0	39	55					
Origin B	В	30	0	22	359	411					
	С	0	0	0	0	0					
	D	69	373	4	0	446					
1	Tot.	99	389	26	398	912					

Traffic Lane Flows

Lane	Scenario 4: 2021 Without Development PM Peak							
Junction: Woolwich Manor Way/Hatmann Road/Fishguard W								
1/1 (with short)	446(In) 442(Out)							
1/2 (short)	4							
2/1	55							
3/1 (short)	381							
3/2 (with short)	411(ln) 30(Out)							
4/1	0							
5/1	99							
6/1	389							
7/1	26							
8/1	398							

Lane Saturation Flows

Junction: Woolwich Manor Way/Hatmann Road/Fishguard Way											
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)			
1/1	2 75	0.00	V	Arm 5 Left	15.00	15.6 %	1961	1961			
(Woolwich Manor Way)	2.75	0.00	I	Arm 6 Ahead	Inf	84.4 %	1001	1001			
1/2 (Woolwich Manor Way)	3.00	0.00	Y	Arm 7 Right	10.00	100.0 %	1665	1665			
				Arm 6 Left	10.00	29.1 %					
2/1 (Fishguard Way)	3.50	0.00	Y	Arm 7 Ahead	Inf	0.0 %	1763	1763			
				Arm 8 Right	15.00	70.9 %					
3/1	2 75	0.00	Y	Arm 7 Left	9.00	5.8 %	1872	1872			
(Albert Road)	2.70	0.00		Arm 8 Ahead	Inf	94.2 %		1012			
3/2 (Albert Road)	3.00	0.00	Y	Arm 5 Right	15.00	100.0 %	1741	1741			
			Y	Arm 5 Ahead	10.00	0.0 %	2065	2065			
4/1 (Hartmann Road)	4.50	0.00		Arm 6 Right	Inf	0.0 %					
				Arm 8 Left	10.00	0.0 %					
5/1 (Fishguard Way Lane 1)			Infinite S	aturation Flow			Inf	Inf			
6/1 (Albert Road Lane 1)		Infinite Saturation Flow						Inf			
7/1 (Hartmann Road Lane 1)		Infinite Saturation Flow Inf						Inf			
8/1 (Woolwich Manor Way Lane 1)			Infinite S	aturation Flow			Inf	Inf			

Scenario 5: '2021 With Development AM Peak' (FG5: '2021 With Development AM Peak', Plan 1: 'Network Control Plan 1') Traffic Flows, Desired

Desired Flow :

	Destination										
		А	В	С	D	Tot.					
A B	0	40	0	69	109						
	8	0	22	218	248						
Ongin	С	0	0	0	174	174					
	D	46	346	191	0	583					
	Tot.	54	386	213	461	1114					

Traffic Lane Flows

Lane	Scenario 5: 2021 With Development AM Peak						
Junction: Woolwich Manor Way/Hatmann Road/Fishguard V							
1/1 (with short)	583(In) 392(Out)						
1/2 (short)	191						
2/1	109						
3/1 (short)	240						
3/2 (with short)	248(In) 8(Out)						
4/1	174						
5/1	54						
6/1	386						
7/1	213						
8/1	461						

Lane Saturation Flows

Junction: Woolwich Manor Way/Hatmann Road/Fishguard Way											
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)			
1/1	2 75	0.00	v	Arm 5 Left	15.00	11.7 %	1868	1868			
(Woolwich Manor Way)	2.75	0.00	I	Arm 6 Ahead	Inf	88.3 %	1000	1000			
1/2 (Woolwich Manor Way)	3.00	0.00	Y	Arm 7 Right	10.00	100.0 %	1665	1665			
2/1 (Fishquard Wav)				Arm 6 Left	10.00	36.7 %		1757			
	3.50	0.00	Y	Arm 7 Ahead	Inf	0.0 %	1757				
				Arm 8 Right	15.00	63.3 %					
3/1	2 75	0.00	v	Arm 7 Left	9.00	9.2 %	1862	1862			
(Albert Road)	2.15	0.00		Arm 8 Ahead	Inf	90.8 %	1002	1002			
3/2 (Albert Road)	3.00	0.00	Y	Arm 5 Right	15.00	100.0 %	1741	1741			
			Y	Arm 5 Ahead	10.00	0.0 %		1796			
4/1 (Hartmann Road)	4.50	0.00		Arm 6 Right	Inf	0.0 %	1796				
· · ·				Arm 8 Left	10.00	100.0 %					
5/1 (Fishguard Way Lane 1)			Infinite S	aturation Flow			Inf	Inf			
6/1 (Albert Road Lane 1)		Infinite Saturation Flow						Inf			
7/1 (Hartmann Road Lane 1)		Infinite Saturation Flow Inf Inf									
8/1 (Woolwich Manor Way Lane 1)			Infinite S	aturation Flow			Inf	Inf			

Scenario 6: '2021 With Development PM Peak' (FG6: '2021 With Development PM Peak', Plan 1: 'Network Control Plan 1')

Traffic Flows, Desired Desired Flow :

	Destination										
		А	В	С	D	Tot.					
A	0	16	0	39	55						
Origin	В	0	0	22	359	381					
Ongin	С	0	0	0	156	156					
	D	69	373	180	0	622					
	Tot.	69	389	202	554	1214					

Traffic Lane Flows

Lane	Scenario 6: 2021 With Development PM Peak							
Junction: Woolwich Manor Way/Hatmann Road/Fishguard V								
1/1 (with short)	622(In) 442(Out)							
1/2 (short)	180							
2/1	55							
3/1 (short)	381							
3/2 (with short)	381(In) 0(Out)							
4/1	156							
5/1	69							
6/1	389							
7/1	202							
8/1	554							

Lane Saturation Flows

Junction: Woolwich Manor Way/Hatmann Road/Fishguard Way											
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)			
1/1	2 75	0.00	V	Arm 5 Left	15.00	15.6 %	1961	1961			
(Woolwich Manor Way)	2.15	0.00	I	Arm 6 Ahead	Inf	84.4 %	1001	1001			
1/2 (Woolwich Manor Way)	3.00	0.00	Y	Arm 7 Right	10.00	100.0 %	1665	1665			
				Arm 6 Left	10.00	29.1 %					
2/1 (Fishguard Way)	3.50	0.00	Y	Arm 7 Ahead	Inf	0.0 %	1763	1763			
				Arm 8 Right	15.00	70.9 %					
3/1	2 75	0.00	v	Arm 7 Left	9.00	5.8 %	1872	1872			
(Albert Road)	2.75	0.00	•	Arm 8 Ahead	Inf	94.2 %	1072	1072			
3/2 (Albert Road)	3.00	0.00	Y	Arm 5 Right	15.00	0.0 %	1915	1915			
		0.00	Y	Arm 5 Ahead	10.00	0.0 %	1796	1796			
4/1 (Hartmann Road)	4.50			Arm 6 Right	Inf	0.0 %					
				Arm 8 Left	10.00	100.0 %					
5/1 (Fishguard Way Lane 1)			Infinite S	aturation Flow			Inf	Inf			
6/1 (Albert Road Lane 1)		Infinite Saturation Flow						Inf			
7/1 (Hartmann Road Lane 1)		Infinite Saturation Flow						Inf			
8/1 (Woolwich Manor Way Lane 1)			Infinite S	aturation Flow			Inf	Inf			

Scenario 7: '2023 Without Development AM Peak' (FG7: '2023 Without Development AM Peak', Plan 1: 'Network Control Plan 1') Traffic Flows, Desired

Desired Flow :

	Destination										
		A	В	С	D	Tot.					
	А	0	42	0	71	113					
Origin	B	8	0	22	226	256					
Ongin	С	0	0	0	1	1					
	D	48	358	0	0	406					
	Tot.	56	400	22	298	776					

Traffic Lane Flows

Lane	Scenario 7: 2023 Without Development AM Peak
Junction: Woolwich Manor	r Way/Hatmann Road/Fishguard Way
1/1 (with short)	406(In) 406(Out)
1/2 (short)	0
2/1	113
3/1 (short)	248
3/2 (with short)	256(In) 8(Out)
4/1	1
5/1	56
6/1	400
7/1	22
8/1	298

Lane Saturation Flows

Junction: Woolwich Manor Way/Hatmann Road/Fishguard Way								
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1	2 75	0.00	v	Arm 5 Left	15.00	11.8 %	1868	1868
(Woolwich Manor Way)	2.75	0.00	1	Arm 6 Ahead	Inf	88.2 %	1000	1000
1/2 (Woolwich Manor Way)	3.00	0.00	Y	Arm 7 Right	10.00	0.0 %	1915	1915
				Arm 6 Left	10.00	37.2 %		
2/1 (Fishguard Way)	3.50	0.00	Y	Arm 7 Ahead	Inf	0.0 %	1757	1757
			Arm 8 Right	15.00	62.8 %			
3/1	2 75	0.00	Y	Arm 7 Left	9.00	8.9 %	1862	1862
(Albert Road)	2.75	0.00		Arm 8 Ahead	Inf	91.1 %		
3/2 (Albert Road)	3.00	0.00	Y	Arm 5 Right	15.00	100.0 %	1741	1741
				Arm 5 Ahead	10.00	0.0 %		
4/1 (Hartmann Road)	4.50	0.00	Y	Arm 6 Right	Inf	0.0 %	1796	1796
				Arm 8 Left	10.00	100.0 %		
5/1 (Fishguard Way Lane 1)		Infinite Saturation Flow					Inf	Inf
6/1 (Albert Road Lane 1)		Infinite Saturation Flow					Inf	Inf
7/1 (Hartmann Road Lane 1)	Infinite Saturation Flow Inf Inf					Inf		
8/1 (Woolwich Manor Way Lane 1)			Infinite S	aturation Flow			Inf	Inf

Scenario 8: '2023 Without Development PM Peak' (FG8: '2023 Without Development PM Peak', Plan 1: 'Network

Full Input Data And Results Control Plan 1') Traffic Flows, Desired Desired Flow :

	Destination							
		А	В	С	D	Tot.		
	А	0	17	0	40	57		
Origin	В	31	0	22	373	426		
Oligin	С	0	0	0	0	0		
	D	71	387	4	0	462		
1	Tot.	102	404	26	413	945		

Traffic Lane Flows

Lane	Scenario 8: 2023 Without Development PM Peak
Junction: Woolwich Manor	r Way/Hatmann Road/Fishguard Way
1/1 (with short)	462(In) 458(Out)
1/2 (short)	4
2/1	57
3/1 (short)	395
3/2 (with short)	426(In) 31(Out)
4/1	0
5/1	102
6/1	404
7/1	26
8/1	413

Lane Saturation Flows

Junction: Woolwich Manor Way/Hatmann Road/Fishguard Way								
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1	2 75	0.00	V	Arm 5 Left	15.00	15.5 %	1961	1961
(Woolwich Manor Way)	2.15	0.00	I	Arm 6 Ahead	Inf	84.5 %	1001	1001
1/2 (Woolwich Manor Way)	3.00	0.00	Y	Arm 7 Right	10.00	100.0 %	1665	1665
				Arm 6 Left	10.00	29.8 %		
2/1 (Fishguard Way)	3.50	0.00	Y	Arm 7 Ahead	Inf	0.0 %	1762	1762
				Arm 8 Right	15.00	70.2 %		
3/1	2 75	0.00	V	Arm 7 Left	9.00	5.6 %	1873	1873
(Albert Road)	2.70	0.00	•	Arm 8 Ahead	Inf	94.4 %		
3/2 (Albert Road)	3.00	0.00	Y	Arm 5 Right	15.00	100.0 %	1741	1741
				Arm 5 Ahead	10.00	0.0 %	2065	2065
4/1 (Hartmann Road)	4.50	0.00	Y	Arm 6 Right	Inf	0.0 %		
				Arm 8 Left	10.00	0.0 %		
5/1 (Fishguard Way Lane 1)		Infinite Saturation Flow					Inf	Inf
6/1 (Albert Road Lane 1)		Infinite Saturation Flow					Inf	Inf
7/1 (Hartmann Road Lane 1)		Infinite Saturation Flow Inf					Inf	Inf
8/1 (Woolwich Manor Way Lane 1)			Infinite S	aturation Flow			Inf	Inf

Scenario 9: '2023 With Development AM Peak' (FG9: '2023 With Development AM Peak', Plan 1: 'Network Control Plan 1') Traffic Flows, Desired

Desired Flow :

	Destination							
		А	В	С	D	Tot.		
	А	0	42	0	71	113		
Origin	В	8	0	22	226	256		
Ongin	С	0	0	0	180	180		
	D	48	358	196	0	602		
	Tot.	56	400	218	477	1151		

Traffic Lane Flows

Lane	Scenario 9: 2023 With Development AM Peak				
Junction: Woolwich Manor	r Way/Hatmann Road/Fishguard Way				
1/1 (with short)	602(In) 406(Out)				
1/2 (short)	196				
2/1	113				
3/1 (short)	248				
3/2 (with short)	256(In) 8(Out)				
4/1	180				
5/1	56				
6/1	400				
7/1	218				
8/1	477				

Lane Saturation Flows

Junction: Woolwich Manor Way/Hatmann Road/Fishguard Way								
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1	2 75	0.00	v	Arm 5 Left	15.00	11.8 %	1868	1868
(Woolwich Manor Way)	2.10	0.00	I I	Arm 6 Ahead	Inf	88.2 %	1000	1000
1/2 (Woolwich Manor Way)	3.00	0.00	Y	Arm 7 Right	10.00	100.0 %	1665	1665
				Arm 6 Left	10.00	37.2 %		
2/1 (Fishguard Way)	3.50	0.00	Y	Arm 7 Ahead	Inf	0.0 %	1757	1757
				Arm 8 Right	15.00	62.8 %	-	
3/1	2.75	0.00	V	Arm 7 Left	9.00	8.9 %	1960	1862
(Albert Road)	2.10	0.00	Ť	Arm 8 Ahead	Inf	91.1 %	1002	
3/2 (Albert Road)	3.00	0.00	Y	Arm 5 Right	15.00	100.0 %	1741	1741
	Ì			Arm 5 Ahead	10.00	0.0 %		1796
4/1 (Hartmann Road)	4.50	0.00	Y	Arm 6 Right	Inf	0.0 %	1796	
				Arm 8 Left	10.00	100.0 %]	
5/1 (Fishguard Way Lane 1)		Infinite Saturation Flow					Inf	Inf
6/1 (Albert Road Lane 1)		Infinite Saturation Flow				Inf	Inf	
7/1 (Hartmann Road Lane 1)		Infinite Saturation Flow Inf Inf					Inf	
8/1 (Woolwich Manor Way Lane 1)			Infinite S	aturation Flow			Inf	Inf

Scenario 10: '2023 With Development PM Peak' (FG10: '2023 With Development PM Peak', Plan 1: 'Network Control Plan 1')

Traffic Flows, Desired Desired Flow :

	-							
	Destination							
		А	В	С	D	Tot.		
	А	0	17	0	40	57		
Origin	В	31	0	22	373	426		
Ongin	С	0	0	0	162	162		
	D	71	387	190	0	648		
	Tot.	102	404	212	575	1293		

Traffic Lane Flows

Lane	Scenario 10: 2023 With Development PM Peak						
Junction: Woolwich Manor Way/Hatmann Road/Fishguard Way							
1/1 (with short)	648(In) 458(Out)						
1/2 (short)	190						
2/1	57						
3/1 (short)	395						
3/2 (with short)	426(In) 31(Out)						
4/1	162						
5/1	102						
6/1	404						
7/1	212						
8/1	575						

Lane Saturation Flows

Junction: Woolwich Manor Way/Hatmann Road/Fishguard Way								
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1	2 75	0.00	V	Arm 5 Left	15.00	15.5 %	1961	1961
(Woolwich Manor Way)	2.75	0.00	T	Arm 6 Ahead	Inf	84.5 %	1001	1001
1/2 (Woolwich Manor Way)	3.00	0.00	Y	Arm 7 Right	10.00	100.0 %	1665	1665
				Arm 6 Left	10.00	29.8 %		
2/1 (Fishguard Way)	3.50	0.00	Y	Arm 7 Ahead	Inf	0.0 %	1762	1762
				Arm 8 Right	15.00	70.2 %		
3/1	2 75	0.00	Y	Arm 7 Left	9.00	5.6 %	1873	1972
(Albert Road)	2.75	0.00		Arm 8 Ahead	Inf	94.4 %		1073
3/2 (Albert Road)	3.00	0.00	Y	Arm 5 Right	15.00	100.0 %	1741	1741
				Arm 5 Ahead	10.00	0.0 %		
4/1 (Hartmann Road)	4.50	0.00	Y	Arm 6 Right	Inf	0.0 %	1796	1796
				Arm 8 Left	10.00	100.0 %		
5/1 (Fishguard Way Lane 1)		Infinite Saturation Flow					Inf	Inf
6/1 (Albert Road Lane 1)		Infinite Saturation Flow					Inf	Inf
7/1 (Hartmann Road Lane 1)		Infinite Saturation Flow Inf Ir					Inf	
8/1 (Woolwich Manor Way Lane 1)			Infinite S	aturation Flow			Inf	Inf

Scenario 11: 'Copy of 2023 With Development AM Peak' (FG11: '2023 With Development AM Peak - Sensitivity Test', Plan 1: 'Network Control Plan 1') Traffic Flows, Desired Desired Flow :

Destination С А В D Tot. А 0 42 0 71 113 В 8 0 22 226 256 Origin С 0 0 0 194 194 D 48 358 198 0 604 Tot. 56 400 220 491 1167

Traffic Lane Flows

Lane	Scenario 11: Copy of 2023 With Development AM Peak
Junction: Woolwich Manor	⁻ Way/Hatmann Road/Fishguard Way
1/1 (with short)	604(In) 406(Out)
1/2 (short)	198
2/1	113
3/1 (short)	248
3/2 (with short)	256(In) 8(Out)
4/1	194
5/1	56
6/1	400
7/1	220
8/1	491

Lane Saturation Flows

Junction: Woolwich Manor Wa	Junction: Woolwich Manor Way/Hatmann Road/Fishguard Way												
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)					
1/1	2 75	0.00	~	Arm 5 Left	15.00	11.8 %	1868	1868					
(Woolwich Manor Way)	/) 2.75 0.00		I	Arm 6 Ahead	Inf	88.2 %	1000	1000					
1/2 (Woolwich Manor Way)	3.00	0.00	Y	Arm 7 Right	10.00	100.0 %	1665	1665					
				Arm 6 Left	10.00	37.2 %							
2/1 (Fishguard Way)	3.50	0.00	Y	Arm 7 Ahead	Inf	0.0 %	1757	1757					
				Arm 8 Right	15.00	62.8 %							
3/1	2 75	0.00	v	Arm 7 Left	9.00	8.9 %	1862	1862					
(Albert Road)	2.75	0.00		Arm 8 Ahead	Inf	91.1 %	1002	1002					
3/2 (Albert Road)	3.00	0.00	Y	Arm 5 Right	15.00	100.0 %	1741	1741					
				Arm 5 Ahead	10.00	0.0 %							
4/1 (Hartmann Road)	4.50	0.00	Y	Arm 6 Right	Inf	0.0 %	1796	1796					
· · · ·				Arm 8 Left	10.00	100.0 %							
5/1 (Fishguard Way Lane 1)			Infinite S	aturation Flow			Inf	Inf					
6/1 (Albert Road Lane 1)			Infinite S		Inf	Inf							
7/1 (Hartmann Road Lane 1)	Infinite Saturation Flow Inf												
8/1 (Woolwich Manor Way Lane 1)		Infinite Saturation Flow Inf											

Scenario 12: 'Copy of 2023 With Development PM Peak' (FG12: '2023 With Development PM Peak - Sensitivity

Full Input Data And Results Test', Plan 1: 'Network Control Plan 1') Traffic Flows, Desired Desired Flow :

		Destination										
		A	В	С	D	Tot.						
	A	0	17	0	40	57						
Origin	В	31	0	22	373	426						
Oligin	С	0	0	0	163	163						
	D	71	387	202	0	660						
	Tot.	102	404	224	576	1306						

Traffic Lane Flows

Lane	Scenario 12: Copy of 2023 With Development PM Peak
Junction: Woolwich Manor	r Way/Hatmann Road/Fishguard Way
1/1 (with short)	660(In) 458(Out)
1/2 (short)	202
2/1	57
3/1 (short)	395
3/2 (with short)	426(In) 31(Out)
4/1	163
5/1	102
6/1	404
7/1	224
8/1	576

Lane Saturation Flows

Junction: Woolwich Manor W	ay/Hatm	ann Road/	Fishguard	Way					
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)	
1/1	2 75	0.00	V	Arm 5 Left	15.00	15.5 %	1961	1961	
(Woolwich Manor Way)	2.75	0.00	Ŷ	Arm 6 Ahead	Inf	84.5 %	1001	1001	
1/2 (Woolwich Manor Way)	3.00	0.00	Y	Arm 7 Right	10.00	100.0 %	1665	1665	
				Arm 6 Left	10.00	29.8 %			
2/1 (Fishguard Way)	3.50	0.00	Y	Arm 7 Ahead	Inf	0.0 %	1762	1762	
				Arm 8 Right	15.00	70.2 %			
3/1	2 75	0.00	Y	Arm 7 Left	9.00	5.6 %	1873	1873	
(Albert Road)	2.75			Arm 8 Ahead	Inf	94.4 %	1075		
3/2 (Albert Road)	3.00	0.00	Y	Arm 5 Right	15.00	100.0 %	1741	1741	
				Arm 5 Ahead	10.00	0.0 %			
4/1 (Hartmann Road)	4.50	0.00	Y	Arm 6 Right	Inf	0.0 %	1796	1796	
				Arm 8 Left	10.00	100.0 %			
5/1 (Fishguard Way Lane 1)			Infinite S	aturation Flow			Inf	Inf	
6/1 (Albert Road Lane 1)			Infinite S		Inf	Inf			
7/1 (Hartmann Road Lane 1)			Infinite S		Inf	Inf			
8/1 (Woolwich Manor Way Lane 1)			Inf	Inf					

Scenario 1: 'Existing AM Peak' (FG1: 'Existing AM Peak', Plan 1: 'Network Control Plan 1') Stage Sequence Diagram



Stage Timings

Stage	1	2	3
Duration	40	13	5
Change Point	0	51	72

Signal Timings Diagram





Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	N/A	-	-		-	-	-	-	-	-	37.2%
Woolwich Manor Way/Hatmann Road/Fishguard Way	-	-	N/A	-	-		-	-	-	-	-	-	37.2%
1/1+1/2	Woolwich Manor Way Left Ahead Right	U+O	N/A	N/A	A		1	41	-	321	1867:1915	864	37.2%
2/1	Fishguard Way Left Ahead Right	0	N/A	N/A	С		1	13	-	95	1757	273	34.8%
3/2+3/1	Albert Road Right Left Ahead	O+U	N/A	N/A	В		1	41	-	210	1741:1861	867	24.2%
4/1	Hartmann Road Ahead Right Left	Ο	N/A	N/A	D		1	13	-	1	1796	279	0.4%
5/1	Fishguard Way	U	N/A	N/A	-		-	-	-	47	Inf	Inf	0.0%
6/1	Albert Road	U	N/A	N/A	-		-	-	-	316	Inf	Inf	0.0%
7/1	Hartmann Road	U	N/A	N/A	-		-	-	-	19	Inf	Inf	0.0%
8/1	Woolwich Manor Way	U	N/A	N/A	-		-	-	-	245	Inf	Inf	0.0%

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	-	-	67	0	0	3.1	0.7	0.0	3.9	-	-	-	-
Woolwich Manor Way/Hatmann Road/Fishguard Way	-	-	67	0	0	3.1	0.7	0.0	3.9	-	-	-	-
1/1+1/2	321	321	0	0	0	1.4	0.3	0.0	1.7	18.8	5.2	0.3	5.5
2/1	95	95	60	0	0	0.9	0.3	0.0	1.2	44.0	2.1	0.3	2.4
3/2+3/1	210	210	7	0	0	0.8	0.2	0.0	1.0	17.3	3.0	0.2	3.1
4/1	1	1	0	0	0	0.0	0.0	0.0	0.0	39.0	0.0	0.0	0.0
5/1	47	47	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	316	316	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	19	19	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/1	245	245	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
	C1	F	PRC for Signalled PRC Over All L	Lanes (%): 142.2 anes (%): 142.2	2 Total	Delay for Sign Total Delay Ov	alled Lanes (pcu er All Lanes(pcu	Hr): 3.85 Hr): 3.85	Cycle Ti	me (s): 90	-	-	• • • • • • • • • • • • • • • • • • •

Full Input Data And Results Scenario 2: 'Existing PM Peak' (FG2: 'Existing PM Peak', Plan 1: 'Network Control Plan 1') Stage Sequence Diagram



Stage Timings

Stage	1	2	3
Duration	46	7	5
Change Point	0	57	72

Signal Timings Diagram





Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	N/A	-	-		-	-	-	-	-	-	39.5%
Woolwich Manor Way/Hatmann Road/Fishguard Way	-	-	N/A	-	-		-	-	-	-	-	-	39.5%
1/1+1/2	Woolwich Manor Way Left Ahead Right	U+O	N/A	N/A	А		1	47	-	390	1861:1665	987	39.5%
2/1	Fishguard Way Left Ahead Right	0	N/A	N/A	С		1	7	-	48	1763	157	30.6%
3/2+3/1	Albert Road Right Left Ahead	O+U	N/A	N/A	В		1	47	-	359	1741:1872	1000	35.9%
4/1	Hartmann Road Ahead Right Left	Ο	N/A	N/A	D		1	7	-	0	2065	184	0.0%
5/1	Fishguard Way	U	N/A	N/A	-		-	-	-	86	Inf	Inf	0.0%
6/1	Albert Road	U	N/A	N/A	-		-	-	-	340	Inf	Inf	0.0%
7/1	Hartmann Road	U	N/A	N/A	-		-	-	-	23	Inf	Inf	0.0%
8/1	Woolwich Manor Way	U	N/A	N/A	-		-	-	-	348	Inf	Inf	0.0%

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	-	-	64	0	0	3.0	0.8	0.0	3.9	-	-	-	-
Woolwich Manor Way/Hatmann Road/Fishguard Way	-	-	64	0	0	3.0	0.8	0.0	3.9	-	-	-	-
1/1+1/2	390	390	4	0	0	1.3	0.3	0.0	1.7	15.4	5.7	0.3	6.0
2/1	48	48	34	0	0	0.5	0.2	0.0	0.7	54.9	1.1	0.2	1.3
3/2+3/1	359	359	26	0	0	1.2	0.3	0.0	1.5	15.1	4.8	0.3	5.1
4/1	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5/1	86	86	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	340	340	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	23	23	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/1	348	348	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
	C1	F	PRC for Signalled PRC Over All L	Lanes (%): 127.7 anes (%): 127.7	7 Total	Delay for Sign Total Delay Ov	alled Lanes (pcu er All Lanes(pcu	Hr): 3.91 Hr): 3.91	Cycle Ti	me (s): 90	-		

Full Input Data And Results Scenario 3: '2021 Without Development AM Peak' (FG3: '2021 Without Development AM Peak', Plan 1: 'Network Control Plan 1')



Stage Timings

Stage	1	2	3
Duration	41	12	5
Change Point	0	52	72

Signal Timings Diagram





Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	N/A	-	-		-	-	-	-	-	-	44.3%
Woolwich Manor Way/Hatmann Road/Fishguard Way	-	-	N/A	-	-		-	-	-	-	-	-	44.3%
1/1+1/2	Woolwich Manor Way Left Ahead Right	U+O	N/A	N/A	А		1	42	-	392	1868:1915	885	44.3%
2/1	Fishguard Way Left Ahead Right	0	N/A	N/A	С		1	12	-	109	1757	254	42.9%
3/2+3/1	Albert Road Right Left Ahead	O+U	N/A	N/A	В		1	42	-	248	1741:1862	888	27.9%
4/1	Hartmann Road Ahead Right Left	Ο	N/A	N/A	D		1	12	-	1	1796	259	0.4%
5/1	Fishguard Way	U	N/A	N/A	-		-	-	-	54	Inf	Inf	0.0%
6/1	Albert Road	U	N/A	N/A	-		-	-	-	386	Inf	Inf	0.0%
7/1	Hartmann Road	U	N/A	N/A	-		-	-	-	22	Inf	Inf	0.0%
8/1	Woolwich Manor Way	U	N/A	N/A	-		-	-	-	288	Inf	Inf	0.0%

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	-	-	77	0	0	3.7	1.0	0.0	4.7	-	-	-	-
Woolwich Manor Way/Hatmann Road/Fishguard Way	-	-	77	0	0	3.7	1.0	0.0	4.7	-	-	-	-
1/1+1/2	392	392	0	0	0	1.7	0.4	0.0	2.1	19.2	6.4	0.4	6.8
2/1	109	109	69	0	0	1.1	0.4	0.0	1.4	47.5	2.5	0.4	2.9
3/2+3/1	248	248	8	0	0	1.0	0.2	0.0	1.2	17.1	3.5	0.2	3.7
4/1	1	1	0	0	0	0.0	0.0	0.0	0.0	40.3	0.0	0.0	0.0
5/1	54	54	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	386	386	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	22	22	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/1	288	288	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
	C1	F	PRC for Signalled PRC Over All L	Lanes (%): 103.2 anes (%): 103.2	2 Total	Delay for Sign Total Delay Ov	alled Lanes (pcu er All Lanes(pcu	Hr): 4.72 Hr): 4.72	Cycle Ti	me (s): 90	-	-	-

Full Input Data And Results Scenario 4: '2021 Without Development PM Peak' (FG4: '2021 Without Development PM Peak', Plan 1: 'Network Control Plan 1')



Stage Timings

Stage	1	2	3
Duration	46	7	5
Change Point	0	57	72

Signal Timings Diagram




Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	N/A	-	-		-	-	-	-	-	-	45.2%
Woolwich Manor Way/Hatmann Road/Fishguard Way	-	-	N/A	-	-		-	-	-	-	-	-	45.2%
1/1+1/2	Woolwich Manor Way Left Ahead Right	U+O	N/A	N/A	А		1	47	-	446	1861:1665	987	45.2%
2/1	Fishguard Way Left Ahead Right	0	N/A	N/A	С		1	7	-	55	1763	157	35.1%
3/2+3/1	Albert Road Right Left Ahead	O+U	N/A	N/A	В		1	47	-	411	1741:1872	1000	41.1%
4/1	Hartmann Road Ahead Right Left	Ο	N/A	N/A	D		1	7	-	0	2065	184	0.0%
5/1	Fishguard Way	U	N/A	N/A	-		-	-	-	99	Inf	Inf	0.0%
6/1	Albert Road	U	N/A	N/A	-		-	-	-	389	Inf	Inf	0.0%
7/1	Hartmann Road	U	N/A	N/A	-		-	-	-	26	Inf	Inf	0.0%
8/1	Woolwich Manor Way	U	N/A	N/A	-		-	-	-	398	Inf	Inf	0.0%

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	-	-	73	0	0	3.6	1.0	0.1	4.7	-	-	-	-
Woolwich Manor Way/Hatmann Road/Fishguard Way	-	-	73	0	0	3.6	1.0	0.1	4.7	-	-	-	-
1/1+1/2	446	446	4	0	0	1.6	0.4	0.0	2.0	16.3	6.8	0.4	7.2
2/1	55	55	39	0	0	0.6	0.3	0.0	0.9	56.2	1.3	0.3	1.6
3/2+3/1	411	411	30	0	0	1.4	0.3	0.1	1.8	15.8	5.7	0.3	6.1
4/1	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5/1	99	99	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	389	389	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	26	26	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/1	398	398	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
	C1	F	PRC for Signalled PRC Over All L	Lanes (%): 99.7 anes (%): 99.7	Total	Delay for Sign Total Delay Ov	alled Lanes (pcu er All Lanes(pcu	Hr): 4.68 Hr): 4.68	Cycle Ti	me (s): 90	-	-	-

Scenario 5: '2021 With Development AM Peak' (FG5: '2021 With Development AM Peak', Plan 1: 'Network Control Plan 1')



Stage Timings

Stage	1	2	3
Duration	39	14	5
Change Point	0	50	72





Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	N/A	-	-		-	-	-	-	-	-	63.6%
Woolwich Manor Way/Hatmann Road/Fishguard Way	-	-	N/A	-	-		-	-	-	-	-	-	63.6%
1/1+1/2	Woolwich Manor Way Left Ahead Right	U+O	N/A	N/A	A		1	40	-	583	1868:1665	916	63.6%
2/1	Fishguard Way Left Ahead Right	0	N/A	N/A	С		1	14	-	109	1757	185	58.9%
3/2+3/1	Albert Road Right Left Ahead	O+U	N/A	N/A	В		1	40	-	248	1741:1862	847	29.3%
4/1	Hartmann Road Ahead Right Left	Ο	N/A	N/A	D		1	14	-	174	1796	299	58.1%
5/1	Fishguard Way	U	N/A	N/A	-		-	-	-	54	Inf	Inf	0.0%
6/1	Albert Road	U	N/A	N/A	-		-	-	-	386	Inf	Inf	0.0%
7/1	Hartmann Road	U	N/A	N/A	-		-	-	-	213	Inf	Inf	0.0%
8/1	Woolwich Manor Way	U	N/A	N/A	-		-	-	-	461	Inf	Inf	0.0%

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	-	-	268	0	0	6.5	2.5	0.4	9.3	-	-	-	-
Woolwich Manor Way/Hatmann Road/Fishguard Way	-	-	268	0	0	6.5	2.5	0.4	9.3	-	-	-	-
1/1+1/2	583	583	191	0	0	2.8	0.9	0.2	3.9	23.8	8.1	0.9	9.0
2/1	109	109	69	0	0	1.0	0.7	0.1	1.9	61.2	2.4	0.7	3.1
3/2+3/1	248	248	8	0	0	1.1	0.2	0.0	1.3	18.5	3.7	0.2	3.9
4/1	174	174	0	0	0	1.7	0.7	0.0	2.4	48.8	4.0	0.7	4.7
5/1	54	54	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	386	386	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	213	213	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/1	461	461	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
	C1	F	PRC for Signalled PRC Over All L	Lanes (%): 41.4 anes (%): 41.4	4 Total	Delay for Signa Total Delay Ov	alled Lanes (pcu er All Lanes(pcu	Hr): 9.34 Hr): 9.34	Cycle Tir	me (s): 90		<u>.</u>	

Scenario 6: '2021 With Development PM Peak' (FG6: '2021 With Development PM Peak', Plan 1: 'Network Control Plan 1')



Stage Timings

Stage	1	2	3
Duration	42	11	5
Change Point	0	53	72





Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	N/A	-	-		-	-	-	-	-	-	65.1%
Woolwich Manor Way/Hatmann Road/Fishguard Way	-	-	N/A	-	-		-	-	-	-	-	-	65.1%
1/1+1/2	Woolwich Manor Way Left Ahead Right	U+O	N/A	N/A	A		1	43	-	622	1861:1665	961	64.7%
2/1	Fishguard Way Left Ahead Right	Ο	N/A	N/A	С		1	11	-	55	1763	132	41.5%
3/2+3/1	Albert Road Right Left Ahead	O+U	N/A	N/A	В		1	43	-	381	1915:1872	909	41.9%
4/1	Hartmann Road Ahead Right Left	Ο	N/A	N/A	D		1	11	-	156	1796	239	65.1%
5/1	Fishguard Way	U	N/A	N/A	-		-	-	-	69	Inf	Inf	0.0%
6/1	Albert Road	U	N/A	N/A	-		-	-	-	389	Inf	Inf	0.0%
7/1	Hartmann Road	U	N/A	N/A	-		-	-	-	202	Inf	Inf	0.0%
8/1	Woolwich Manor Way	U	N/A	N/A	-		-	-	-	554	Inf	Inf	0.0%

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	-	-	219	0	0	6.4	2.5	0.4	9.4	-	-	-	-
Woolwich Manor Way/Hatmann Road/Fishguard Way	-	-	219	0	0	6.4	2.5	0.4	9.4	-	-	-	-
1/1+1/2	622	622	180	0	0	2.7	0.9	0.4	4.0	23.1	9.0	0.9	9.9
2/1	55	55	39	0	0	0.5	0.4	0.1	1.0	63.0	1.2	0.4	1.6
3/2+3/1	381	381	0	0	0	1.6	0.4	0.0	1.9	18.2	6.1	0.4	6.5
4/1	156	156	0	0	0	1.6	0.9	0.0	2.5	58.1	3.7	0.9	4.6
5/1	69	69	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	389	389	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	202	202	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/1	554	554	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
	C1	F	PRC for Signalled PRC Over All L	Lanes (%): 38.2 .anes (%): 38.2	2 Total 2	Delay for Signa Total Delay Ov	alled Lanes (pcu er All Lanes(pcu	Hr): 9.40 Hr): 9.40	Cycle Tir	me (s): 90	-	<u>.</u>	

Full Input Data And Results Scenario 7: '2023 Without Development AM Peak' (FG7: '2023 Without Development AM Peak', Plan 1: 'Network Control Plan 1')



Stage Timings

Stage	1	2	3
Duration	41	12	5
Change Point	0	52	72





Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	N/A	-	-		-	-	-	-	-	-	45.9%
Woolwich Manor Way/Hatmann Road/Fishguard Way	-	-	N/A	-	-		-	-	-	-	-	-	45.9%
1/1+1/2	Woolwich Manor Way Left Ahead Right	U+O	N/A	N/A	А		1	42	-	406	1868:1915	885	45.9%
2/1	Fishguard Way Left Ahead Right	0	N/A	N/A	С		1	12	-	113	1757	254	44.5%
3/2+3/1	Albert Road Right Left Ahead	O+U	N/A	N/A	В		1	42	-	256	1741:1862	888	28.8%
4/1	Hartmann Road Ahead Right Left	Ο	N/A	N/A	D		1	12	-	1	1796	259	0.4%
5/1	Fishguard Way	U	N/A	N/A	-		-	-	-	56	Inf	Inf	0.0%
6/1	Albert Road	U	N/A	N/A	-		-	-	-	400	Inf	Inf	0.0%
7/1	Hartmann Road	U	N/A	N/A	-		-	-	-	22	Inf	Inf	0.0%
8/1	Woolwich Manor Way	U	N/A	N/A	-		-	-	-	298	Inf	Inf	0.0%

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	-	-	79	0	0	3.9	1.0	0.0	4.9	-	-	-	-
Woolwich Manor Way/Hatmann Road/Fishguard Way	-	-	79	0	0	3.9	1.0	0.0	4.9	-	-	-	-
1/1+1/2	406	406	0	0	0	1.8	0.4	0.0	2.2	19.5	6.8	0.4	7.2
2/1	113	113	71	0	0	1.1	0.4	0.0	1.5	47.9	2.6	0.4	3.0
3/2+3/1	256	256	8	0	0	1.0	0.2	0.0	1.2	17.2	3.7	0.2	3.9
4/1	1	1	0	0	0	0.0	0.0	0.0	0.0	40.3	0.0	0.0	0.0
5/1	56	56	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	400	400	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	22	22	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/1	298	298	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
	C1	P	PRC for Signalled PRC Over All L	Lanes (%): 96.2 anes (%): 96.2	2 Total 2	Delay for Sign Total Delay Ov	alled Lanes (pcu ver All Lanes(pcu	Hr): 4.94 Hr): 4.94	Cycle Ti	me (s): 90	•		

Full Input Data And Results Scenario 8: '2023 Without Development PM Peak' (FG8: '2023 Without Development PM Peak', Plan 1: 'Network Control Plan 1')



Stage Timings

Stage	1	2	3
Duration	46	7	5
Change Point	0	57	72





Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	N/A	-	-		-	-	-	-	-	-	46.8%
Woolwich Manor Way/Hatmann Road/Fishguard Way	-	-	N/A	-	-		-	-	-	-	-	-	46.8%
1/1+1/2	Woolwich Manor Way Left Ahead Right	U+O	N/A	N/A	А		1	47	-	462	1861:1665	987	46.8%
2/1	Fishguard Way Left Ahead Right	0	N/A	N/A	С		1	7	-	57	1762	157	36.4%
3/2+3/1	Albert Road Right Left Ahead	O+U	N/A	N/A	В		1	47	-	426	1741:1873	1000	42.6%
4/1	Hartmann Road Ahead Right Left	Ο	N/A	N/A	D		1	7	-	0	2065	184	0.0%
5/1	Fishguard Way	U	N/A	N/A	-		-	-	-	102	Inf	Inf	0.0%
6/1	Albert Road	U	N/A	N/A	-		-	-	-	404	Inf	Inf	0.0%
7/1	Hartmann Road	U	N/A	N/A	-		-	-	-	26	Inf	Inf	0.0%
8/1	Woolwich Manor Way	U	N/A	N/A	-		-	-	-	413	Inf	Inf	0.0%

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	-	-	75	0	0	3.8	1.1	0.1	4.9	-	-	-	-
Woolwich Manor Way/Hatmann Road/Fishguard Way	-	-	75	0	0	3.8	1.1	0.1	4.9	-	-	-	-
1/1+1/2	462	462	4	0	0	1.7	0.4	0.0	2.1	16.5	7.1	0.4	7.6
2/1	57	57	40	0	0	0.6	0.3	0.0	0.9	56.6	1.3	0.3	1.6
3/2+3/1	426	426	31	0	0	1.5	0.4	0.1	1.9	16.0	6.1	0.4	6.4
4/1	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5/1	102	102	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	404	404	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	26	26	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/1	413	413	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
	C1	F	PRC for Signalled PRC Over All L	Lanes (%): 92.2 anes (%): 92.2	2 Total	Delay for Signa Total Delay Ov	alled Lanes (pcu er All Lanes(pcu	Hr): 4.92 Hr): 4.92	Cycle Ti	me (s): 90	-	-	-

Scenario 9: '2023 With Development AM Peak' (FG9: '2023 With Development AM Peak', Plan 1: 'Network Control Plan 1')



Stage Timings

Stage	1	2	3
Duration	39	14	5
Change Point	0	50	72





Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	N/A	-	-		-	-	-	-	-	-	65.8%
Woolwich Manor Way/Hatmann Road/Fishguard Way	-	-	N/A	-	-		-	-	-	-	-	-	65.8%
1/1+1/2	Woolwich Manor Way Left Ahead Right	U+O	N/A	N/A	A		1	40	-	602	1868:1665	915	65.8%
2/1	Fishguard Way Left Ahead Right	0	N/A	N/A	С		1	14	-	113	1757	186	60.8%
3/2+3/1	Albert Road Right Left Ahead	O+U	N/A	N/A	В		1	40	-	256	1741:1862	846	30.2%
4/1	Hartmann Road Ahead Right Left	Ο	N/A	N/A	D		1	14	-	180	1796	299	60.1%
5/1	Fishguard Way	U	N/A	N/A	-		-	-	-	56	Inf	Inf	0.0%
6/1	Albert Road	U	N/A	N/A	-		-	-	-	400	Inf	Inf	0.0%
7/1	Hartmann Road	U	N/A	N/A	-		-	-	-	218	Inf	Inf	0.0%
8/1	Woolwich Manor Way	U	N/A	N/A	-		-	-	-	477	Inf	Inf	0.0%

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	-	-	275	0	0	6.8	2.7	0.4	9.9	-	-	-	-
Woolwich Manor Way/Hatmann Road/Fishguard Way	-	-	275	0	0	6.8	2.7	0.4	9.9	-	-	-	-
1/1+1/2	602	602	196	0	0	2.9	1.0	0.2	4.1	24.5	8.6	1.0	9.6
2/1	113	113	71	0	0	1.0	0.8	0.2	2.0	62.4	2.5	0.8	3.3
3/2+3/1	256	256	8	0	0	1.1	0.2	0.0	1.3	18.6	3.9	0.2	4.1
4/1	180	180	0	0	0	1.7	0.7	0.0	2.5	49.6	4.2	0.7	4.9
5/1	56	56	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	400	400	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	218	218	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/1	477	477	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
	C1	F	PRC for Signalled PRC Over All L	Lanes (%): 36.9 anes (%): 36.9	- Dotal	Delay for Sign Total Delay Ov	alled Lanes (pcu er All Lanes(pcu	Hr): 9.85 Hr): 9.85	Cycle Ti	me (s): 90	-	-	-

Full Input Data And Results Scenario 10: '2023 With Development PM Peak' (FG10: '2023 With Development PM Peak', Plan 1: 'Network Control Plan 1')



Stage Timings

Stage	1	2	3
Duration	42	11	5
Change Point	0	53	72





Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	N/A	-	-		-	-	-	-	-	-	67.7%
Woolwich Manor Way/Hatmann Road/Fishguard Way	-	-	N/A	-	-		-	-	-	-	-	-	67.7%
1/1+1/2	Woolwich Manor Way Left Ahead Right	U+O	N/A	N/A	А		1	43	-	648	1861:1665	963	67.3%
2/1	Fishguard Way Left Ahead Right	0	N/A	N/A	С		1	11	-	57	1762	114	50.0%
3/2+3/1	Albert Road Right Left Ahead	O+U	N/A	N/A	В		1	43	-	426	1741:1873	918	46.4%
4/1	Hartmann Road Ahead Right Left	0	N/A	N/A	D		1	11	-	162	1796	239	67.7%
5/1	Fishguard Way	U	N/A	N/A	-		-	-	-	102	Inf	Inf	0.0%
6/1	Albert Road	U	N/A	N/A	-		-	-	-	404	Inf	Inf	0.0%
7/1	Hartmann Road	U	N/A	N/A	-		-	-	-	212	Inf	Inf	0.0%
8/1	Woolwich Manor Way	U	N/A	N/A	-		-	-	-	575	Inf	Inf	0.0%

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	-	-	261	0	0	6.9	3.0	0.6	10.4	-	-	-	-
Woolwich Manor Way/Hatmann Road/Fishguard Way	-	-	261	0	0	6.9	3.0	0.6	10.4	-	-	-	-
1/1+1/2	648	648	190	0	0	2.9	1.0	0.4	4.3	24.1	9.6	1.0	10.6
2/1	57	57	40	0	0	0.6	0.5	0.1	1.1	71.3	1.3	0.5	1.8
3/2+3/1	426	426	31	0	0	1.8	0.4	0.1	2.3	19.3	6.7	0.4	7.1
4/1	162	162	0	0	0	1.7	1.0	0.0	2.7	59.8	3.8	1.0	4.8
5/1	102	102	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	404	404	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	212	212	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/1	575	575	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
	C1	F	PRC for Signalled PRC Over All L	Lanes (%): 33.0 anes (%): 33.0) Total	Delay for Sign Total Delay Ov	alled Lanes (pcul er All Lanes(pcul	Hr): 10.43 Hr): 10.43	Cycle Tir	me (s): 90	-	-	-

Full Input Data And Results Scenario 11: 'Copy of 2023 With Development AM Peak' (FG11: '2023 With Development AM Peak - Sensitivity Test', Plan 1: 'Network Control Plan 1')



Stage Timings

Stage	1	2	3
Duration	38	15	5
Change Point	0	49	72





Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	N/A	-	-		-	-	-	-	-	-	67.4%
Woolwich Manor Way/Hatmann Road/Fishguard Way	-	-	N/A	-	-		-	-	-	-	-	-	67.4%
1/1+1/2	Woolwich Manor Way Left Ahead Right	U+O	N/A	N/A	А		1	39	-	604	1868:1665	896	67.4%
2/1	Fishguard Way Left Ahead Right	0	N/A	N/A	С		1	15	-	113	1757	186	60.8%
3/2+3/1	Albert Road Right Left Ahead	O+U	N/A	N/A	В		1	39	-	256	1741:1862	826	31.0%
4/1	Hartmann Road Ahead Right Left	Ο	N/A	N/A	D		1	15	-	194	1796	319	60.8%
5/1	Fishguard Way	U	N/A	N/A	-		-	-	-	56	Inf	Inf	0.0%
6/1	Albert Road	U	N/A	N/A	-		-	-	-	400	Inf	Inf	0.0%
7/1	Hartmann Road	U	N/A	N/A	-		-	-	-	220	Inf	Inf	0.0%
8/1	Woolwich Manor Way	U	N/A	N/A	-		-	-	-	491	Inf	Inf	0.0%

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	-	-	277	0	0	7.0	2.8	0.4	10.2	-	-	-	-
Woolwich Manor Way/Hatmann Road/Fishguard Way	-	-	277	0	0	7.0	2.8	0.4	10.2	-	-	-	-
1/1+1/2	604	604	198	0	0	3.0	1.0	0.2	4.3	25.7	8.8	1.0	9.8
2/1	113	113	71	0	0	1.0	0.8	0.2	1.9	61.8	2.5	0.8	3.2
3/2+3/1	256	256	8	0	0	1.1	0.2	0.0	1.4	19.3	3.9	0.2	4.2
4/1	194	194	0	0	0	1.8	0.8	0.0	2.6	48.3	4.4	0.8	5.2
5/1	56	56	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	400	400	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	220	220	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/1	491	491	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
	C1	F	PRC for Signalled PRC Over All L	Lanes (%): 33.6 anes (%): 33.6	5 Total	Delay for Sign Total Delay Ov	alled Lanes (pcul er All Lanes(pcul	Hr): 10.23 Hr): 10.23	Cycle Tir	me (s): 90		-	-

Full Input Data And Results Scenario 12: 'Copy of 2023 With Development PM Peak' (FG12: '2023 With Development PM Peak - Sensitivity Test', Plan 1: 'Network Control Plan 1')



Stage Timings

Stage	1	2	3
Duration	42	11	5
Change Point	0	53	72





Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	N/A	-	-		-	-	-	-	-	-	68.3%
Woolwich Manor Way/Hatmann Road/Fishguard Way	-	-	N/A	-	-		-	-	-	-	-	-	68.3%
1/1+1/2	Woolwich Manor Way Left Ahead Right	U+O	N/A	N/A	A		1	43	-	660	1861:1665	967	68.3%
2/1	Fishguard Way Left Ahead Right	Ο	N/A	N/A	С		1	11	-	57	1762	114	50.0%
3/2+3/1	Albert Road Right Left Ahead	O+U	N/A	N/A	В		1	43	-	426	1741:1873	918	46.4%
4/1	Hartmann Road Ahead Right Left	Ο	N/A	N/A	D		1	11	-	163	1796	239	68.1%
5/1	Fishguard Way	U	N/A	N/A	-		-	-	-	102	Inf	Inf	0.0%
6/1	Albert Road	U	N/A	N/A	-		-	-	-	404	Inf	Inf	0.0%
7/1	Hartmann Road	U	N/A	N/A	-		-	-	-	224	Inf	Inf	0.0%
8/1	Woolwich Manor Way	U	N/A	N/A	-		-	-	-	576	Inf	Inf	0.0%

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)		
Network	-	-	273	0	0	7.0	3.0	0.6	10.6	-	-	-	-		
Woolwich Manor Way/Hatmann Road/Fishguard Way	-	-	273	0	0	7.0	3.0	0.6	10.6	-	-	-	-		
1/1+1/2	660	660	202	0	0	3.0	1.1	0.4	4.5	24.4	9.7	1.1	10.8		
2/1	57	57	40	0	0	0.6	0.5	0.1	1.1	71.3	1.3	0.5	1.8		
3/2+3/1	426	426	31	0	0	1.8	0.4	0.1	2.3	19.2	6.7	0.4	7.1		
4/1	163	163	0	0	0	1.7	1.0	0.0	2.7	60.1	3.8	1.0	4.9		
5/1	102	102	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0		
6/1	404	404	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0		
7/1	224	224	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0		
8/1	576	576	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0		
	C1	PRC for Signalled Lanes (%): 31.8 PRC Over All Lanes (%): 31.8			3 Total	Total Delay for Signalled Lanes (pcuHr): 10.61 Total Delay Over All Lanes(pcuHr): 10.61				Cycle Time (s): 90					