

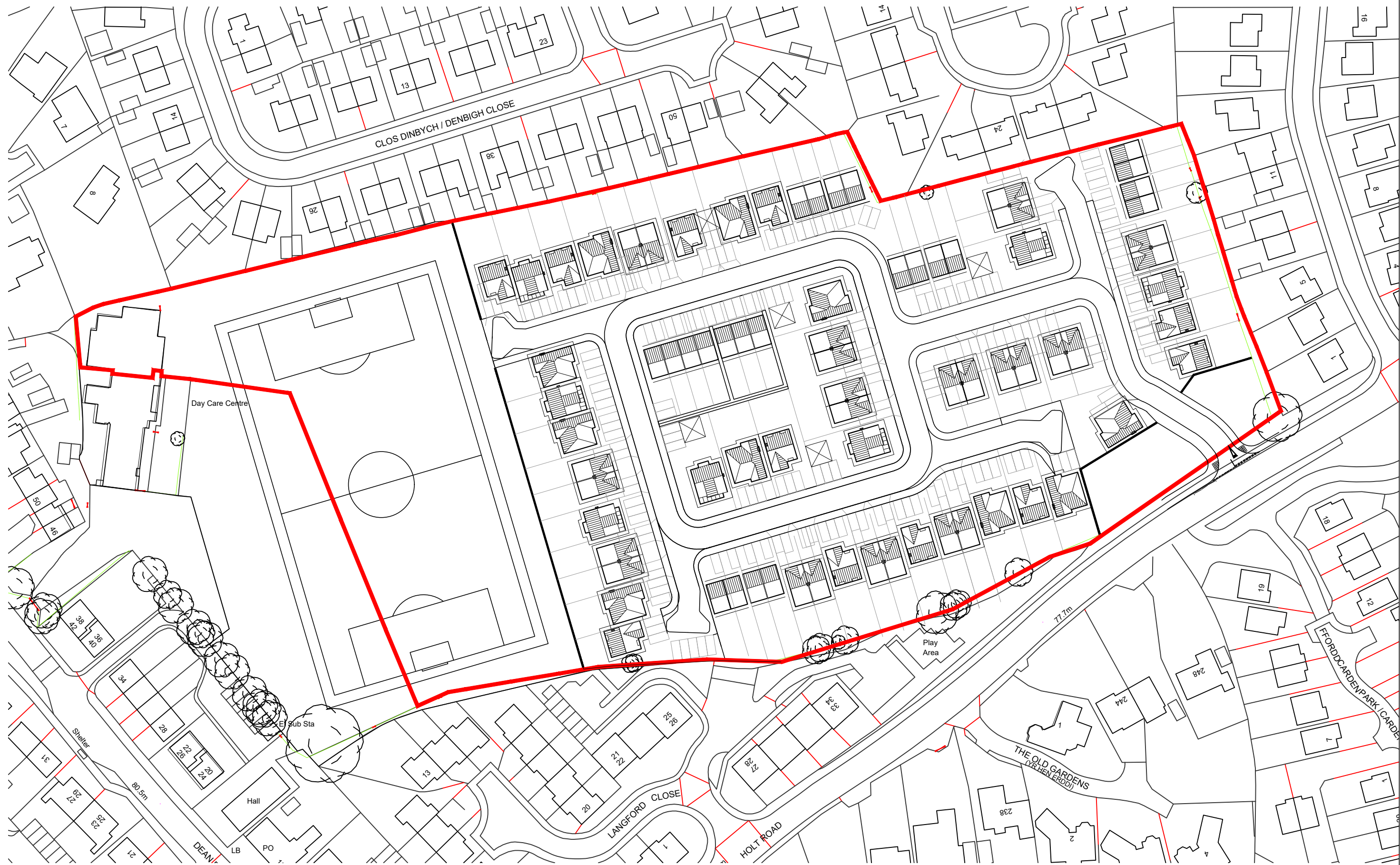
Holt Road
Residential Scheme

Transport Assessment
Appendices

June 2018

Appendix A

Proposed Site Layout / Masterplan



1. All boundaries, dimensions and levels are to be checked on site before construction and any discrepancies reported to the Architect / Designer.
2. Partial Service: Any discrepancies with site or other information is to be advised to the Architect / Designer and direction and / or approval is to be sought before the implementation of the detail.
3. Block and site plans are reproduced under license from the Ordnance Survey.
4. Do not scale this drawing.
5. For the purpose of coordination, all relevant parties must check this information prior to implementation and report any discrepancies to the Architect / Designer.

P1	Highways realignment	14.06.2018
A	Inclusion of highways access	12.06.2018
STATUS	REVISION	DATE
Information contained on this drawing is the sole copyright of DAY Architectural Ltd. and is not to be reproduced without their permission.		

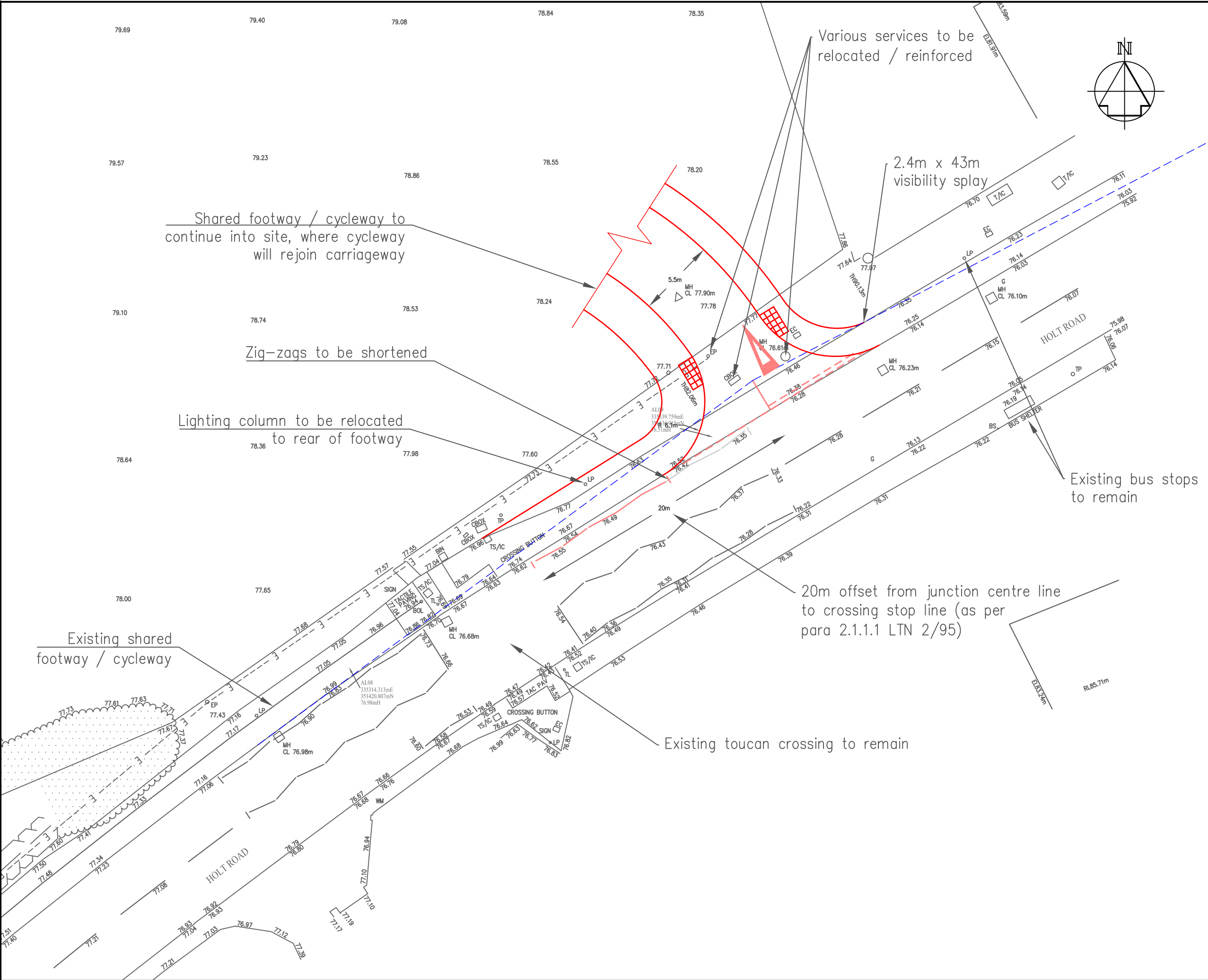
DRAWING NOTES:

SCALE 1:1000	PAPER SIZE A3	DRAWING Holt Road - Proposed Masterplan
DATE June 2018	DRAWN BY LB	
DWG No. 531-17-4-AL-00-001	REVISION P1	CLIENT Wrexham Glyndwr University
DRAWING STATUS PLANNING		PROJECT Campus 2025



Appendix B

Proposed Access Layouts



Z:\Data\2600-2699\2627 Wrexham Glyndwr University\Drawings\Current			
Pre-Application Feedback	C	DP	25/07/18
Consultation	B	DP	14/06/18
Junction position altered to increase distance from crossing	A	DP	16/05/18
REVISIONS	REV	Auth	DATE
Notes: Planning drawing - not for construction The acceptability of the proposed design is subject to further investigation, including utilities searches, land ownership enquiries, swept-path analysis and road safety audits.			
Planning Submission	C	DP	25/07/18
Consultation	B	DP	14/06/18
Draft for information	A	DP	16/05/18
Draft for information	-	DP	27/04/18
PURPOSE OF ISSUE	REV	Auth	DATE
 Integrated Transport Planning Ltd Cornwall Buildings 45 Newhall Street Birmingham B3 3QR Tel: 0121 213 4725 Fax: 0121 213 4793 http://www.itpworld.net			
CLIENT			
Wrexham Glyndwr University			
PROJECT			
Holt Road			
DRAWING TITLE			
Preliminary Access Layout			
BASE SCALE			DATE
1: 250 @ A3			July 2018
DRAWING NUMBER			REV
DWG-2627-301			C

Appendix C

TRICS

Calculation Reference: AUDIT-743001-180514-0503

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 03 - RESIDENTIAL
 Category : A - HOUSES PRIVATELY OWNED
 VEHICLES

Selected regions and areas:

02	SOUTH EAST	
	ES EAST SUSSEX	1 days
	KC KENT	2 days
03	SOUTH WEST	
	DV DEVON	1 days
	SM SOMERSET	1 days
	WL WILTSHIRE	1 days
04	EAST ANGLIA	
	CA CAMBRIDGESHIRE	1 days
	NF NORFOLK	1 days
06	WEST MIDLANDS	
	SH SHROPSHIRE	1 days
07	YORKSHIRE & NORTH LINCOLNSHIRE	
	NY NORTH YORKSHIRE	1 days
08	NORTH WEST	
	CH CHESHIRE	2 days
10	WALES	
	VG VALE OF GLAMORGAN	1 days
11	SCOTLAND	
	AG ANGUS	1 days
	HI HIGHLAND	1 days
	PK PERTH & KINROSS	1 days

This section displays the number of survey days per TRICS® sub-region in the selected set

Secondary Filtering selection:

This data displays the chosen trip rate parameter and its selected range. Only sites that fall within the parameter range are included in the trip rate calculation.

Parameter: Number of dwellings
 Actual Range: 7 to 363 (units:)
 Range Selected by User: 5 to 4334 (units:)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/10 to 27/11/17

This data displays the range of survey dates selected. Only surveys that were conducted within this date range are included in the trip rate calculation.

Selected survey days:

Monday	5 days
Tuesday	3 days
Wednesday	4 days
Thursday	4 days

This data displays the number of selected surveys by day of the week.

Selected survey types:

Manual count	16 days
Directional ATC Count	0 days

This data displays the number of manual classified surveys and the number of unclassified ATC surveys, the total adding up to the overall number of surveys in the selected set. Manual surveys are undertaken using staff, whilst ATC surveys are undertaken using machines.

Selected Locations:

Suburban Area (PPS6 Out of Centre)	10
Edge of Town	6

This data displays the number of surveys per main location category within the selected set. The main location categories consist of Free Standing, Edge of Town, Suburban Area, Neighbourhood Centre, Edge of Town Centre, Town Centre and Not Known.

Selected Location Sub Categories:

Residential Zone	15
No Sub Category	1

This data displays the number of surveys per location sub-category within the selected set. The location sub-categories consist of Commercial Zone, Industrial Zone, Development Zone, Residential Zone, Retail Zone, Built-Up Zone, Village, Out of Town, High Street and No Sub Category.

Secondary Filtering selection:

Use Class:

C3 16 days

This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order 2005 has been used for this purpose, which can be found within the Library module of TRICS®.

Population within 1 mile:

10,001 to 15,000	4 days
15,001 to 20,000	7 days
20,001 to 25,000	3 days
25,001 to 50,000	2 days

This data displays the number of selected surveys within stated 1-mile radii of population.

Population within 5 miles:

25,001 to 50,000	2 days
50,001 to 75,000	3 days
75,001 to 100,000	4 days
100,001 to 125,000	1 days
125,001 to 250,000	6 days

This data displays the number of selected surveys within stated 5-mile radii of population.

Car ownership within 5 miles:

1.1 to 1.5 16 days

This data displays the number of selected surveys within stated ranges of average cars owned per residential dwelling, within a radius of 5-miles of selected survey sites.

Travel Plan:

No 16 days

This data displays the number of surveys within the selected set that were undertaken at sites with Travel Plans in place, and the number of surveys that were undertaken at sites without Travel Plans.

PTAL Rating:

No PTAL Present 16 days

This data displays the number of selected surveys with PTAL Ratings.

LIST OF SITES relevant to selection parameters

1	AG-03-A-01 KEPTIE ROAD	BUNGALOWS/ DET.	ANGUS
	ARBROATH Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 7 Survey date: TUESDAY 22/05/12		Survey Type: MANUAL
2	CA-03-A-05 EASTFIELD ROAD	DETACHED HOUSES	CAMBRIDGESHIRE
	PETERBOROUGH Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 28 Survey date: MONDAY 17/10/16		Survey Type: MANUAL
3	CH-03-A-08 WHITCHURCH ROAD BOUGHTON HEATH CHESTER	DETACHED	CHESHIRE
	Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 11 Survey date: TUESDAY 22/05/12		Survey Type: MANUAL
4	CH-03-A-09 GREYSTOKE ROAD HURDSFIELD MACCLESFIELD	TERRACED HOUSES	CHESHIRE
	Edge of Town Residential Zone Total Number of dwellings: 24 Survey date: MONDAY 24/11/14		Survey Type: MANUAL
5	DV-03-A-01 BRONSHILL ROAD	TERRACED HOUSES	DEVON
	TORQUAY Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 37 Survey date: WEDNESDAY 30/09/15		Survey Type: MANUAL
6	ES-03-A-03 SHEPHAM LANE	MIXED HOUSES & FLATS	EAST SUSSEX
	POLEGATE Edge of Town Residential Zone Total Number of dwellings: 212 Survey date: MONDAY 11/07/16		Survey Type: MANUAL
7	HI-03-A-14 KING BRUDE ROAD SCORGUIE INVERNESS	SEMI-DETACHED & TERRACED	HIGHLAND
	Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 40 Survey date: WEDNESDAY 23/03/16		Survey Type: MANUAL
8	KC-03-A-03 HYTHE ROAD WILLESBOROUGH ASHFORD	MIXED HOUSES & FLATS	KENT
	Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 51 Survey date: THURSDAY 14/07/16		Survey Type: MANUAL

LIST OF SITES relevant to selection parameters (Cont.)

9	KC-03-A-06	MIXED HOUSES & FLATS	KENT
	MARGATE ROAD		
	HERNE BAY		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Number of dwellings:	363	
	Survey date: WEDNESDAY	27/09/17	Survey Type: MANUAL
10	NF-03-A-02	HOUSES & FLATS	NORFOLK
	DEREHAM ROAD		
	NORWICH		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Number of dwellings:	98	
	Survey date: MONDAY	22/10/12	Survey Type: MANUAL
11	NY-03-A-10	HOUSES AND FLATS	NORTH YORKSHIRE
	BOROUGHBRIDGE ROAD		
	RIPON		
	Edge of Town		
	No Sub Category		
	Total Number of dwellings:	71	
	Survey date: TUESDAY	17/09/13	Survey Type: MANUAL
12	PK-03-A-01	DETAC. & BUNGALOWS	PERTH & KINROSS
	TULLYLUMB TERRACE		
	GORNHILL		
	PERTH		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Number of dwellings:	36	
	Survey date: WEDNESDAY	11/05/11	Survey Type: MANUAL
13	SH-03-A-06	BUNGALOWS	SHROPSHIRE
	ELLESMERE ROAD		
	SHREWSBURY		
	Edge of Town		
	Residential Zone		
	Total Number of dwellings:	16	
	Survey date: THURSDAY	22/05/14	Survey Type: MANUAL
14	SM-03-A-01	DETACHED & SEMI	SOMERSET
	WEMBDON ROAD		
	NORTHFIELD		
	BRIDGWATER		
	Edge of Town		
	Residential Zone		
	Total Number of dwellings:	33	
	Survey date: THURSDAY	24/09/15	Survey Type: MANUAL
15	VG-03-A-01	SEMI-DETACHED & TERRACED	VALE OF GLAMORGAN
	ARTHUR STREET		
	BARRY		
	Edge of Town		
	Residential Zone		
	Total Number of dwellings:	12	
	Survey date: MONDAY	08/05/17	Survey Type: MANUAL
16	WL-03-A-02	SEMI DETACHED	WILTSHIRE
	HEADLANDS GROVE		
	SWINDON		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Number of dwellings:	27	
	Survey date: THURSDAY	22/09/16	Survey Type: MANUAL

This section provides a list of all survey sites and days in the selected set. For each individual survey site, it displays a unique site reference code and site address, the selected trip rate calculation parameter and its value, the day of the week and date of each survey, and whether the survey was a manual classified count or an ATC count.

TRIP RATE for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED
VEHICLES

Calculation factor: 1 DWELLS

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	16	67	0.081	16	67	0.302	16	67	0.383
08:00 - 09:00	16	67	0.167	16	67	0.435	16	67	0.602
09:00 - 10:00	16	67	0.141	16	67	0.170	16	67	0.311
10:00 - 11:00	16	67	0.126	16	67	0.155	16	67	0.281
11:00 - 12:00	16	67	0.156	16	67	0.163	16	67	0.319
12:00 - 13:00	16	67	0.158	16	67	0.172	16	67	0.330
13:00 - 14:00	16	67	0.180	16	67	0.191	16	67	0.371
14:00 - 15:00	16	67	0.185	16	67	0.200	16	67	0.385
15:00 - 16:00	16	67	0.250	16	67	0.183	16	67	0.433
16:00 - 17:00	16	67	0.335	16	67	0.212	16	67	0.547
17:00 - 18:00	16	67	0.402	16	67	0.219	16	67	0.621
18:00 - 19:00	16	67	0.327	16	67	0.214	16	67	0.541
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			2.508			2.616			5.124

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: $COUNT/TRP*FACT$. Trip rates are then rounded to 3 decimal places.

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Parameter summary

Trip rate parameter range selected:	7 - 363 (units:)
Survey date date range:	01/01/10 - 27/11/17
Number of weekdays (Monday-Friday):	16
Number of Saturdays:	0
Number of Sundays:	0
Surveys automatically removed from selection:	0
Surveys manually removed from selection:	0

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are shown. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

Appendix D

Census Data and Flow Diagrams

WU03EW - Location of usual residence and place of work by method of travel to work (MSOA level)

ONS Crown Copyright Reserved [from Nomis on 23 May 2018]

population

units

date

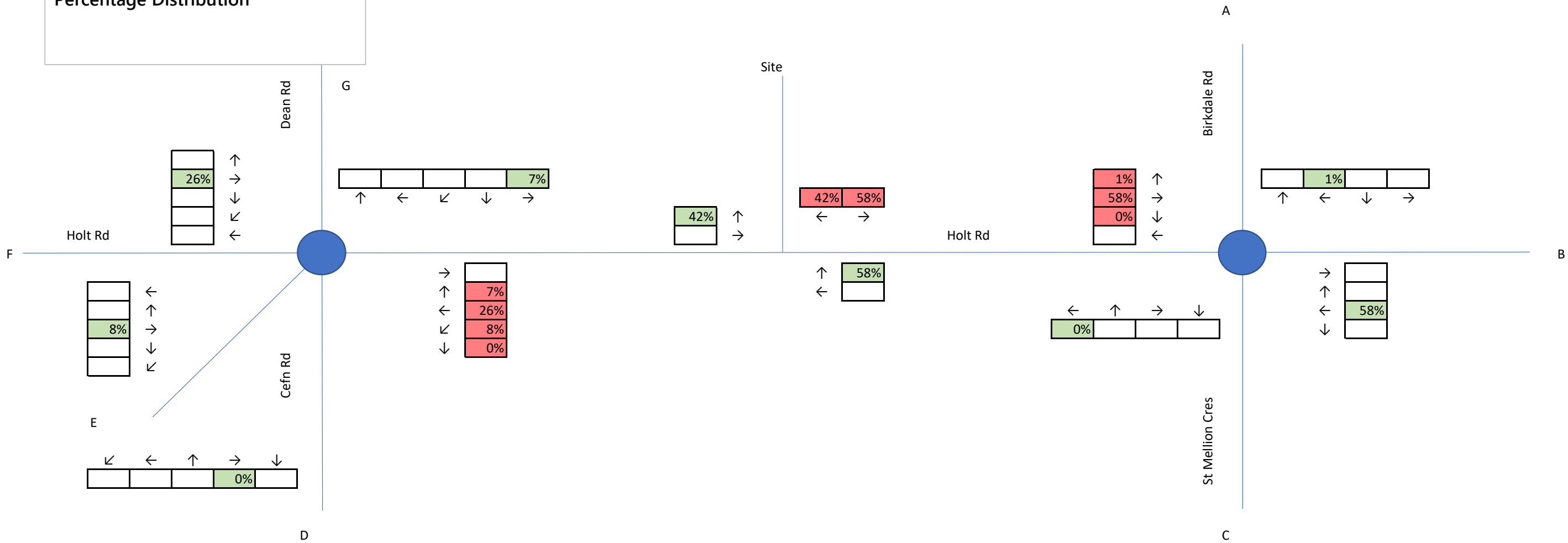
method of travel to work

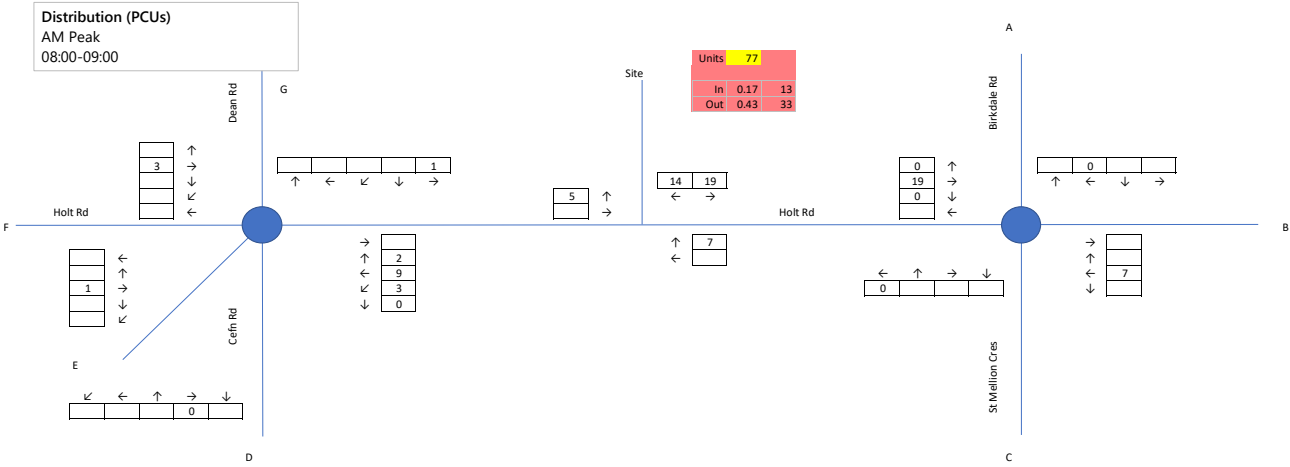
			A	B	C	D	E	F	G	
	Calculated		1%	54%	0%	0%	7%	25%	7%	93%
place of work	TOTAL	Adjusted	1%	58%	0%	0%	8%	26%	7%	100%
W02000420 : Wrexham 020	2,471	22.0%		100%						
W02000088 : Wrexham 011	1,493	13.3%						100%		
W02000085 : Wrexham 008	1,158	10.3%						50%	50%	
W02000089 : Wrexham 012	611	5.4%					50%	50%		
W02000093 : Wrexham 016	271	2.4%					100%			
W02000086 : Wrexham 009	257	2.3%						50%	50%	
W02000091 : Wrexham 014	203	1.8%		50%				50%		
W02000080 : Wrexham 003	190	1.7%		100%						
W02000092 : Wrexham 015	180	1.6%		100%						
W02000087 : Wrexham 010	156	1.4%					50%	50%		
W02000084 : Wrexham 007	141	1.3%	50%						50%	
W02000095 : Wrexham 018	137	1.2%					100%			
W02000096 : Wrexham 019	117	1.0%		100%						
W02000082 : Wrexham 005	115	1.0%		100%						
W02000081 : Wrexham 004	114	1.0%		100%						
W02000090 : Wrexham 013	96	0.9%		100%						
W02000094 : Wrexham 017	78	0.7%		100%						
W02000083 : Wrexham 006	73	0.6%						100%		
Flintshire	1,053	9.4%		100%						
Cheshire West and Chester	875	7.8%		100%						
Shropshire	425	3.8%		100%						
Denbighshire	210	1.9%		100%						
Cheshire East	92	0.8%								
Wirral	66	0.6%								
Liverpool	61	0.5%								
Conwy	61	0.5%								
Warrington	55	0.5%								
Halton	48	0.4%								
Manchester	40	0.4%								
Powys	30	0.3%								
Trafford	18	0.2%								
Knowsley	16	0.1%								
Salford	16	0.1%								
Telford and Wrekin	15	0.1%								
Stockport	14	0.1%								
Gwynedd	12	0.1%								
Wigan	11	0.1%								
Newcastle-under-Lyme	8	0.1%								
Stafford	7	0.1%								
Sefton	6	0.1%								
St. Helens	6	0.1%								
Cardiff	6	0.1%								
Oldham	5	0.0%								
South Lakeland	5	0.0%								
Tameside	5	0.0%								
East Staffordshire	5	0.0%								
Preston	4	0.0%								
Birmingham	4	0.0%								
Stoke-on-Trent	4	0.0%								
Dudley	3	0.0%								
Ceredigion	3	0.0%								
Isle of Anglesey	3	0.0%								
Bolton	2	0.0%								
Pendle	2	0.0%								
South Ribble	2	0.0%								
Coventry	2	0.0%								
Sandwell	2	0.0%								
Newport	2	0.0%								
Blackburn with Darwen	1	0.0%								
Copeland	1	0.0%								
Fylde	1	0.0%								
Rochdale	1	0.0%								
West Lancashire	1	0.0%								
Wyre	1	0.0%								
Cannock Chase	1	0.0%								
Lichfield	1	0.0%								
North Warwickshire	1	0.0%								
Walsall	1	0.0%								
Warwick	1	0.0%								
Wolverhampton	1	0.0%								
Wychavon	1	0.0%								
Caerphilly	1	0.0%								
Carmarthenshire	1	0.0%								
Monmouthshire	1	0.0%								
Yorkshire and The Humber	62	0.6%								
East	25	0.2%								
South East	22	0.2%								
Scotland	19	0.2%								
East Midlands	16	0.1%								
London	15	0.1%								
South West	11	0.1%								
North East	5	0.0%								

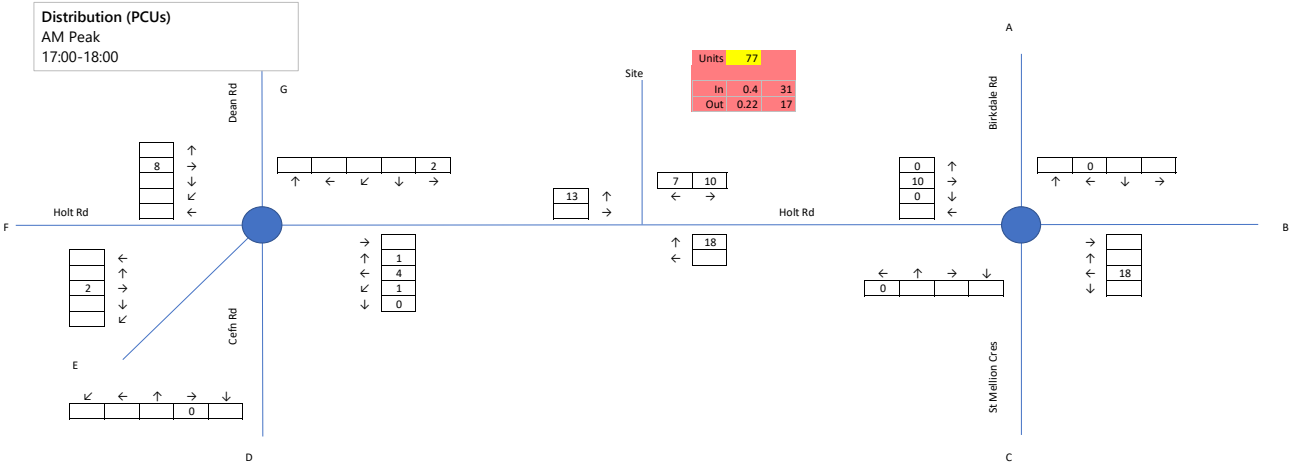
11,256

In order to protect against disclosure of personal information, records have been swapped between different geographic areas. Some counts will be affected, particularly small counts at the lowest geographies.

Percentage Distribution







Appendix E

ARCADY Reports

Junctions 8
ARCADY 8 - Roundabout Module
Version: 8.0.6.541 [19821,26/11/2015] © Copyright TRL Limited, 2018
For sales and distribution information, program advice and maintenance, contact TRL: Tel: +44 (0)1344 770758 email: software@trl.co.uk Web: http://www.trlsoftware.co.uk
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Filename: HoltRd_140618.arc8

Path: Z:\Data\2600-2699\2627 Wrexham Glyndwr University\Data\Junction Assessment

Report generation date: 18/06/2018 12:05:43

Summary of junction performance

	AM Peak				PM Peak			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
	Existing Layout - 2018 Baseline							
Greyhound Roundabout - A534 Holt Rd (NE)	4.12	21.45	0.81	C	12.35	52.13	0.95	F
Greyhound Roundabout - Bryn Estyn Rd	0.06	8.03	0.05	A	0.15	8.55	0.13	A

Greyhound Roundabout - Cefn Rd	2.45	15.79	0.71	C	1.81	13.61	0.65	B
Greyhound Roundabout - A534 Holt Rd (SW)	1.33	10.70	0.57	B	2.41	15.68	0.71	C
Greyhound Roundabout - Dean Rd	1.31	8.99	0.57	A	0.64	6.47	0.39	A
Holt Rd / Birkdale Rd - A534 Holt Rd (NE)	0.54	3.53	0.34	A	1.33	5.15	0.57	A
Holt Rd / Birkdale Rd - St Mellion Cres	0.17	4.61	0.15	A	0.08	5.24	0.08	A
Holt Rd / Birkdale Rd - A534 Holt Rd (SW)	0.91	4.83	0.47	A	0.70	4.18	0.41	A
Holt Rd / Birkdale Rd - Birkdale Rd	0.29	6.66	0.22	A	0.12	5.23	0.10	A
	Existing Layout - 2020 Baseline							
Greyhound Roundabout - A534 Holt Rd (NE)	5.13	26.09	0.84	D	18.44	72.84	0.99	F
Greyhound Roundabout - Bryn Estyn Rd	0.06	8.39	0.06	A	0.16	8.89	0.14	A
Greyhound Roundabout - Cefn Rd	2.87	17.99	0.74	C	2.04	14.92	0.68	B
Greyhound Roundabout - A534 Holt Rd (SW)	1.48	11.53	0.59	B	2.79	17.69	0.74	C
Greyhound Roundabout - Dean Rd	1.46	9.73	0.60	A	0.69	6.76	0.41	A
Holt Rd / Birkdale Rd - A534 Holt Rd (NE)	0.57	3.60	0.36	A	1.44	5.39	0.59	A
Holt Rd / Birkdale Rd - St Mellion Cres	0.18	4.71	0.15	A	0.09	5.38	0.08	A
Holt Rd / Birkdale Rd - A534 Holt Rd (SW)	0.97	4.99	0.48	A	0.74	4.29	0.43	A
Holt Rd / Birkdale Rd - Birkdale Rd	0.31	6.89	0.23	A	0.12	5.32	0.11	A
	Existing Layout - 2020 Baseline + Dev							
Greyhound Roundabout - A534 Holt Rd (NE)	5.75	28.80	0.86	D	19.80	77.02	0.99	F
Greyhound Roundabout - Bryn Estyn Rd	0.06	8.53	0.06	A	0.16	8.92	0.14	A

Greyhound Roundabout - Cefn Rd	2.95	18.51	0.75	C	2.05	15.03	0.68	C
Greyhound Roundabout - A534 Holt Rd (SW)	1.48	11.56	0.59	B	2.96	18.52	0.76	C
Greyhound Roundabout - Dean Rd	1.46	9.74	0.60	A	0.69	6.84	0.41	A
Holt Rd / Birkdale Rd - A534 Holt Rd (NE)	0.59	3.62	0.36	A	1.51	5.55	0.60	A
Holt Rd / Birkdale Rd - St Mellion Cres	0.18	4.74	0.16	A	0.09	5.47	0.08	A
Holt Rd / Birkdale Rd - A534 Holt Rd (SW)	1.02	5.13	0.50	A	0.77	4.34	0.43	A
Holt Rd / Birkdale Rd - Birkdale Rd	0.31	7.04	0.24	A	0.12	5.36	0.11	A
	Existing Layout - 2025 Baseline							
Greyhound Roundabout - A534 Holt Rd (NE)	8.32	40.70	0.91	E	38.40	131.43	1.05	F
Greyhound Roundabout - Bryn Estyn Rd	0.07	9.11	0.06	A	0.17	9.31	0.15	A
Greyhound Roundabout - Cefn Rd	3.96	23.77	0.80	C	2.51	17.50	0.72	C
Greyhound Roundabout - A534 Holt Rd (SW)	1.81	13.38	0.64	B	3.74	22.76	0.80	C
Greyhound Roundabout - Dean Rd	1.80	11.39	0.65	B	0.79	7.36	0.44	A
Holt Rd / Birkdale Rd - A534 Holt Rd (NE)	0.63	3.73	0.38	A	1.66	5.90	0.62	A
Holt Rd / Birkdale Rd - St Mellion Cres	0.20	4.90	0.17	A	0.10	5.67	0.09	A
Holt Rd / Birkdale Rd - A534 Holt Rd (SW)	1.09	5.31	0.51	A	0.82	4.49	0.45	A
Holt Rd / Birkdale Rd - Birkdale Rd	0.35	7.34	0.26	A	0.13	5.49	0.11	A
	Existing Layout - 2025 Baseline + Dev							
Greyhound Roundabout - A534 Holt Rd (NE)	9.67	46.40	0.93	E	40.74	137.79	1.06	F
Greyhound Roundabout - Bryn Estyn Rd	0.07	9.25	0.06	A	0.17	9.32	0.15	A

Greyhound Roundabout - Cefn Rd	4.09	24.60	0.81	C	2.52	17.59	0.72	C
Greyhound Roundabout - A534 Holt Rd (SW)	1.81	13.42	0.64	B	4.01	24.08	0.81	C
Greyhound Roundabout - Dean Rd	1.81	11.41	0.65	B	0.80	7.45	0.45	A
Holt Rd / Birkdale Rd - A534 Holt Rd (NE)	0.64	3.76	0.38	A	1.74	6.09	0.64	A
Holt Rd / Birkdale Rd - St Mellion Cres	0.20	4.93	0.17	A	0.10	5.77	0.09	A
Holt Rd / Birkdale Rd - A534 Holt Rd (SW)	1.15	5.47	0.53	A	0.85	4.55	0.46	A
Holt Rd / Birkdale Rd - Birkdale Rd	0.35	7.50	0.26	A	0.13	5.54	0.12	A

Values shown are the maximum values over all time segments. Delay is the maximum value of average delay per arriving vehicle.

"D1 - 2018 Baseline, AM Peak" model duration: 07:45 - 09:15
"D2 - 2018 Baseline, PM Peak" model duration: 16:45 - 18:15
"D3 - 2020 Baseline, AM Peak" model duration: 07:45 - 09:15
"D4 - 2020 Baseline, PM Peak" model duration: 16:45 - 18:15
"D5 - 2020 Baseline + Dev, AM Peak" model duration: 07:45 - 09:15
"D6 - 2020 Baseline + Dev, PM Peak" model duration: 16:45 - 18:15
"D7 - 2025 Baseline, AM Peak" model duration: 07:45 - 09:15
"D8 - 2025 Baseline, PM Peak" model duration: 16:45 - 18:15
"D9 - 2025 Baseline + Dev, AM Peak" model duration: 07:45 - 09:15
"D10 - 2025 Baseline + Dev, PM Peak" model duration: 16:45 - 18:15
"D11 - Dev, AM Peak" model duration: 07:45 - 09:15
"D12 - Dev, PM Peak" model duration: 16:45 - 18:15

Run using Junctions 8.0.6.541 at 18/06/2018 12:05:29

File summary

Title	Wrexham Glyndwr University
Location	Holt Road

Site Number	
Date	18/06/2018
Version	2
Status	
Identifier	
Client	Wrexham Glyndwr University
Jobnumber	2627
Enumerator	Mark Lever
Description	

Analysis Options

Vehicle Length (m)	Do Queue Variations	Calculate Residual Capacity	Residual Capacity Criteria Type	RFC Threshold	Average Delay Threshold (s)	Queue Threshold (PCU)
5.75			N/A	0.85	36.00	20.00

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	PCU	perHour	s	-Min	perMin

Existing Layout - 2018 Baseline, AM Peak

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Roundabout Capacity Model	Description	Include In Report	Use Specific Demand Set(s)	Specific Demand Set(s)	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
Existing Layout	ARCADY		✓				100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Results For Central Hour Only	Single Time Segment Only	Locked	Run Automatically	Use Relationship	Relationship
2018 Baseline, AM Peak	2018 Baseline	AM Peak		ONE HOUR	07:45	09:15	90	15				✓		

Junction Network

Junctions

Junction	Junction	Name	Junction Type	Arm Order	Grade Separated	Large Roundabout	Do Geometric Delay	Junction Delay (s)	Junction LOS
1	1	Greyhound Roundabout	Roundabout	1,2,3,4,5				14.91	B
2	2	Holt Rd / Birkdale Rd	Roundabout	1,2,3,4				4.52	A

Junction Network Options

Driving Side	Lighting
Left	Normal/unknown

Arms

Arms

Name	Name	Arm	Name	Description
Greyhound Roundabout	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Greyhound Roundabout	Bryn Estyn Rd	2	Bryn Estyn Rd	
Greyhound Roundabout	Cefn Rd	3	Cefn Rd	
Greyhound Roundabout	A534 Holt Rd (SW)	4	A534 Holt Rd (SW)	
Greyhound Roundabout	Dean Rd	5	Dean Rd	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Holt Rd / Birkdale Rd	St Mellion Cres	2	St Mellion Cres	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3	A534 Holt Rd (SW)	
Holt Rd / Birkdale Rd	Birkdale Rd	4	Birkdale Rd	

Capacity Options

Name	Name	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
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Greyhound Roundabout	A534 Holt Rd (NE)	0.00	99999.00		0.00
Greyhound Roundabout	Bryn Estyn Rd	0.00	99999.00		0.00
Greyhound Roundabout	Cefn Rd	0.00	99999.00		0.00
Greyhound Roundabout	A534 Holt Rd (SW)	0.00	99999.00		0.00
Greyhound Roundabout	Dean Rd	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	St Mellion Cres	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	Birkdale Rd	0.00	99999.00		0.00

Roundabout Geometry

Name	Name	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
Greyhound Roundabout	A534 Holt Rd (NE)	3.20	6.00	2.40	14.90	35.80	25.50	
Greyhound Roundabout	Bryn Estyn Rd	3.40	4.90	1.30	9.30	35.80	26.00	
Greyhound Roundabout	Cefn Rd	3.40	4.20	3.40	10.60	35.80	30.00	
Greyhound Roundabout	A534 Holt Rd (SW)	3.50	4.70	1.50	9.20	35.80	29.50	

Greyhound Roundabout	Dean Rd	3.50	4.30	3.10	82.50	35.80	11.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	3.50	6.00	18.10	26.90	29.80	13.50	
Holt Rd / Birkdale Rd	St Mellion Cres	3.30	4.60	10.90	14.20	29.80	26.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3.90	5.30	7.30	22.90	29.80	16.00	
Holt Rd / Birkdale Rd	Birkdale Rd	3.60	3.90	0.10	12.40	29.80	25.00	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Name	Name	Enter slope and intercept directly	Entered slope	Entered intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
Greyhound Roundabout	A534 Holt Rd (NE)		(calculated)	(calculated)	0.538	1147.550
Greyhound Roundabout	Bryn Estyn Rd		(calculated)	(calculated)	0.512	1079.294
Greyhound Roundabout	Cefn Rd		(calculated)	(calculated)	0.519	1117.812
Greyhound Roundabout	A534 Holt Rd (SW)		(calculated)	(calculated)	0.511	1097.912
Greyhound Roundabout	Dean Rd		(calculated)	(calculated)	0.603	1314.070
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)		(calculated)	(calculated)	0.679	1696.503
Holt Rd / Birkdale Rd	St Mellion Cres		(calculated)	(calculated)	0.569	1274.934

Holt Rd / Birkdale Rd	A534 Holt Rd (SW)		(calculated)	(calculated)	0.639	1523.697
Holt Rd / Birkdale Rd	Birkdale Rd		(calculated)	(calculated)	0.528	1085.500

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
		✓	✓	HV Percentages	2.00				✓	✓

Entry Flows

General Flows Data

Name	Name	Profile Type	Use Turning Counts	Average Demand Flow (Veh/hr)	Flow Scaling Factor (%)
Greyhound Roundabout	A534 Holt Rd (NE)	ONE HOUR	✓	633.00	100.000
Greyhound Roundabout	Bryn Estyn Rd	ONE HOUR	✓	22.00	100.000
Greyhound Roundabout	Cefn Rd	ONE HOUR	✓	505.00	100.000
Greyhound Roundabout	A534 Holt Rd (SW)	ONE HOUR	✓	400.00	100.000

Greyhound Roundabout	Dean Rd	ONE HOUR	✓	479.00	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	ONE HOUR	✓	486.00	100.000
Holt Rd / Birkdale Rd	St Mellion Cres	ONE HOUR	✓	123.00	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	ONE HOUR	✓	593.00	100.000
Holt Rd / Birkdale Rd	Birkdale Rd	ONE HOUR	✓	140.00	100.000

Turning Proportions

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

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	1.000	16.000	217.000	323.000	76.000
	Bryn Estyn Rd	7.000	0.000	3.000	6.000	6.000
	Cefn Rd	208.000	4.000	3.000	93.000	197.000
	A534 Holt Rd (SW)	263.000	8.000	55.000	1.000	73.000
	Dean Rd	122.000	19.000	226.000	102.000	10.000

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

	To
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From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.03	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.25	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd (for whole period)

From	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	2.000	15.000	462.000	7.000
	St Mellion Cres	64.000	0.000	31.000	28.000
	A534 Holt Rd (SW)	553.000	12.000	1.000	27.000
	Birkdale Rd	52.000	7.000	81.000	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd (for whole period)

From	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01

	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.05
	Birkdale Rd	0.37	0.05	0.58	0.00

Vehicle Mix

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

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.069	1.012	1.026
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout (for whole period)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.9	1.2	2.6

	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd (for whole period)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.043	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.042	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd (for whole period)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.0	0.0	4.3	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.2	0.0	0.0	0.0

	Birkdale Rd	0.0	28.6	0.0	0.0
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Results

Results Summary for whole modelled period

Name	Name	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)	Total Queueing Delay (PCU-min)	Average Queueing Delay (s)	Rate Of Queueing Delay (PCU-min/min)	Inclusive Total Queueing Delay (PCU-min)	Inclusive Average Queueing Delay (s)
Greyhound Roundabout	A534 Holt Rd (NE)	0.81	21.45	4.12	C	600.88	901.32	197.17	13.13	2.19	197.21	13.13
Greyhound Roundabout	Bryn Estyn Rd	0.05	8.03	0.06	A	21.10	31.66	3.59	6.81	0.04	3.59	6.81
Greyhound Roundabout	Cefn Rd	0.71	15.79	2.45	C	479.11	718.66	129.80	10.84	1.44	129.82	10.84
Greyhound Roundabout	A534 Holt Rd (SW)	0.57	10.70	1.33	B	377.91	566.87	78.53	8.31	0.87	78.54	8.31
Greyhound Roundabout	Dean Rd	0.57	8.99	1.31	A	442.20	663.30	76.89	6.96	0.85	76.90	6.96
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.34	3.53	0.54	A	464.19	696.29	37.60	3.24	0.42	37.60	3.24
Holt Rd / Birkdale Rd	St Mellion Cres	0.15	4.61	0.17	A	112.87	169.30	11.90	4.22	0.13	11.90	4.22
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.47	4.83	0.91	A	565.46	848.19	59.99	4.24	0.67	60.00	4.24

Holt Rd / Birkdale Rd	Birkdale Rd	0.22	6.66	0.29	A	130.30	195.46	19.04	5.84	0.21	19.04	5.84
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Existing Layout - 2018 Baseline, PM Peak

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Roundabout Capacity Model	Description	Include In Report	Use Specific Demand Set(s)	Specific Demand Set(s)	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
Existing Layout	ARCADY		✓				100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Results For Central Hour Only	Single Time Segment Only	Locked	Run Automatically	Use Relationship	Relationship
2018 Baseline, PM Peak	2018 Baseline	PM Peak		ONE HOUR	16:45	18:15	90	15				✓		

Junction Network

Junctions

Junction	Junction	Name	Junction Type	Arm Order	Grade Separated	Large Roundabout	Do Geometric Delay	Junction Delay (s)	Junction LOS
1	1	Greyhound Roundabout	Roundabout	1,2,3,4,5				27.57	D
2	2	Holt Rd / Birkdale Rd	Roundabout	1,2,3,4				4.81	A

Junction Network Options

Driving Side	Lighting
Left	Normal/unknown

Arms

Arms

Name	Name	Arm	Name	Description
Greyhound Roundabout	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Greyhound Roundabout	Bryn Estyn Rd	2	Bryn Estyn Rd	
Greyhound Roundabout	Cefn Rd	3	Cefn Rd	
Greyhound Roundabout	A534 Holt Rd (SW)	4	A534 Holt Rd (SW)	
Greyhound Roundabout	Dean Rd	5	Dean Rd	

Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Holt Rd / Birkdale Rd	St Mellion Cres	2	St Mellion Cres	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3	A534 Holt Rd (SW)	
Holt Rd / Birkdale Rd	Birkdale Rd	4	Birkdale Rd	

Capacity Options

Name	Name	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
Greyhound Roundabout	A534 Holt Rd (NE)	0.00	99999.00		0.00
Greyhound Roundabout	Bryn Estyn Rd	0.00	99999.00		0.00
Greyhound Roundabout	Cefn Rd	0.00	99999.00		0.00
Greyhound Roundabout	A534 Holt Rd (SW)	0.00	99999.00		0.00
Greyhound Roundabout	Dean Rd	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	St Mellion Cres	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	Birkdale Rd	0.00	99999.00		0.00

Roundabout Geometry

Name	Name	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
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Greyhound Roundabout	A534 Holt Rd (NE)	3.20	6.00	2.40	14.90	35.80	25.50	
Greyhound Roundabout	Bryn Estyn Rd	3.40	4.90	1.30	9.30	35.80	26.00	
Greyhound Roundabout	Cefn Rd	3.40	4.20	3.40	10.60	35.80	30.00	
Greyhound Roundabout	A534 Holt Rd (SW)	3.50	4.70	1.50	9.20	35.80	29.50	
Greyhound Roundabout	Dean Rd	3.50	4.30	3.10	82.50	35.80	11.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	3.50	6.00	18.10	26.90	29.80	13.50	
Holt Rd / Birkdale Rd	St Mellion Cres	3.30	4.60	10.90	14.20	29.80	26.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3.90	5.30	7.30	22.90	29.80	16.00	
Holt Rd / Birkdale Rd	Birkdale Rd	3.60	3.90	0.10	12.40	29.80	25.00	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Name	Name	Enter slope and intercept directly	Entered slope	Entered intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
Greyhound Roundabout	A534 Holt Rd (NE)		(calculated)	(calculated)	0.538	1147.550
Greyhound Roundabout	Bryn Estyn Rd		(calculated)	(calculated)	0.512	1079.294

Greyhound Roundabout	Cefn Rd		(calculated)	(calculated)	0.519	1117.812
Greyhound Roundabout	A534 Holt Rd (SW)		(calculated)	(calculated)	0.511	1097.912
Greyhound Roundabout	Dean Rd		(calculated)	(calculated)	0.603	1314.070
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)		(calculated)	(calculated)	0.679	1696.503
Holt Rd / Birkdale Rd	St Mellion Cres		(calculated)	(calculated)	0.569	1274.934
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)		(calculated)	(calculated)	0.639	1523.697
Holt Rd / Birkdale Rd	Birkdale Rd		(calculated)	(calculated)	0.528	1085.500

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
		✓	✓	HV Percentages	2.00				✓	✓

Entry Flows

General Flows Data

Name	Name	Profile Type	Use Turning Counts	Average Demand Flow (Veh/hr)	Flow Scaling Factor (%)
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Greyhound Roundabout	A534 Holt Rd (NE)	ONE HOUR	✓	816.00	100.000
Greyhound Roundabout	Bryn Estyn Rd	ONE HOUR	✓	56.00	100.000
Greyhound Roundabout	Cefn Rd	ONE HOUR	✓	440.00	100.000
Greyhound Roundabout	A534 Holt Rd (SW)	ONE HOUR	✓	515.00	100.000
Greyhound Roundabout	Dean Rd	ONE HOUR	✓	324.00	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	ONE HOUR	✓	844.00	100.000
Holt Rd / Birkdale Rd	St Mellion Cres	ONE HOUR	✓	52.00	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	ONE HOUR	✓	548.00	100.000
Holt Rd / Birkdale Rd	Birkdale Rd	ONE HOUR	✓	71.00	100.000

Turning Proportions

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

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	30.000	268.000	378.000	140.000
	Bryn Estyn Rd	12.000	0.000	5.000	22.000	17.000
	Cefn Rd	153.000	13.000	1.000	85.000	188.000

	A534 Holt Rd (SW)	339.000	11.000	71.000	0.000	94.000
	Dean Rd	95.000	28.000	134.000	60.000	7.000

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

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.43
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.29	0.09	0.41	0.19	0.02

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd (for whole period)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.000	44.000	757.000	43.000
	St Mellion Cres	24.000	0.000	25.000	3.000
	A534 Holt Rd (SW)	457.000	25.000	1.000	65.000
	Birkdale Rd	23.000	8.000	40.000	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd (for whole period)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.83	0.05	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Vehicle Mix

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

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout (for whole period)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd (for whole period)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd (for whole period)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd

	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Results

Results Summary for whole modelled period

Name	Name	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)	Total Queueing Delay (PCU-min)	Average Queueing Delay (s)	Rate Of Queueing Delay (PCU-min/min)	Inclusive Total Queueing Delay (PCU-min)	Inclusive Average Queueing Delay (s)
Greyhound Roundabout	A534 Holt Rd (NE)	0.95	52.13	12.35	F	756.00	1134.00	436.29	23.08	4.85	436.37	23.09
Greyhound Roundabout	Bryn Estyn Rd	0.13	8.55	0.15	A	51.39	77.08	9.10	7.08	0.10	9.10	7.08
Greyhound Roundabout	Cefn Rd	0.65	13.61	1.81	B	407.50	611.24	99.47	9.76	1.11	99.48	9.77
Greyhound Roundabout	A534 Holt Rd (SW)	0.71	15.68	2.41	C	473.51	710.26	127.30	10.75	1.41	127.32	10.76
Greyhound Roundabout	Dean Rd	0.39	6.47	0.64	A	297.31	445.96	40.49	5.45	0.45	40.49	5.45
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.57	5.15	1.33	A	780.03	1170.04	84.20	4.32	0.94	84.21	4.32

Holt Rd / Birkdale Rd	St Mellion Cres	0.08	5.24	0.08	A	47.72	71.57	5.57	4.67	0.06	5.57	4.67
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.41	4.18	0.70	A	506.63	759.94	47.72	3.77	0.53	47.73	3.77
Holt Rd / Birkdale Rd	Birkdale Rd	0.10	5.23	0.12	A	66.99	100.48	8.10	4.84	0.09	8.10	4.84

Existing Layout - 2020 Baseline, AM Peak

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Roundabout Capacity Model	Description	Include In Report	Use Specific Demand Set(s)	Specific Demand Set(s)	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
Existing Layout	ARCADY		✓				100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period	Time Segment Length (min)	Results For Central	Single Time Segment Only	Locked	Run Automatically	Use Relationship	Relationship
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							Length (min)		Hour Only					
2020 Baseline, AM Peak	2020 Baseline	AM Peak		Varies by Arm	07:45	09:15	90	15			✓	✓	✓	D1*1.0335

Junction Network

Junctions

Junction	Junction	Name	Junction Type	Arm Order	Grade Separated	Large Roundabout	Do Geometric Delay	Junction Delay (s)	Junction LOS
1	1	Greyhound Roundabout	Roundabout	1,2,3,4,5				17.25	C
2	2	Holt Rd / Birkdale Rd	Roundabout	1,2,3,4				4.65	A

Junction Network Options

Driving Side	Lighting
Left	Normal/unknown

Arms

Arms

Name	Name	Arm	Name	Description
Greyhound Roundabout	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	

Greyhound Roundabout	Bryn Estyn Rd	2	Bryn Estyn Rd	
Greyhound Roundabout	Cefn Rd	3	Cefn Rd	
Greyhound Roundabout	A534 Holt Rd (SW)	4	A534 Holt Rd (SW)	
Greyhound Roundabout	Dean Rd	5	Dean Rd	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Holt Rd / Birkdale Rd	St Mellion Cres	2	St Mellion Cres	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3	A534 Holt Rd (SW)	
Holt Rd / Birkdale Rd	Birkdale Rd	4	Birkdale Rd	

Capacity Options

Name	Name	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
Greyhound Roundabout	A534 Holt Rd (NE)	0.00	99999.00		0.00
Greyhound Roundabout	Bryn Estyn Rd	0.00	99999.00		0.00
Greyhound Roundabout	Cefn Rd	0.00	99999.00		0.00
Greyhound Roundabout	A534 Holt Rd (SW)	0.00	99999.00		0.00
Greyhound Roundabout	Dean Rd	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	St Mellion Cres	0.00	99999.00		0.00

Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	Birkdale Rd	0.00	99999.00		0.00

Roundabout Geometry

Name	Name	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
Greyhound Roundabout	A534 Holt Rd (NE)	3.20	6.00	2.40	14.90	35.80	25.50	
Greyhound Roundabout	Bryn Estyn Rd	3.40	4.90	1.30	9.30	35.80	26.00	
Greyhound Roundabout	Cefn Rd	3.40	4.20	3.40	10.60	35.80	30.00	
Greyhound Roundabout	A534 Holt Rd (SW)	3.50	4.70	1.50	9.20	35.80	29.50	
Greyhound Roundabout	Dean Rd	3.50	4.30	3.10	82.50	35.80	11.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	3.50	6.00	18.10	26.90	29.80	13.50	
Holt Rd / Birkdale Rd	St Mellion Cres	3.30	4.60	10.90	14.20	29.80	26.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3.90	5.30	7.30	22.90	29.80	16.00	
Holt Rd / Birkdale Rd	Birkdale Rd	3.60	3.90	0.10	12.40	29.80	25.00	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Name	Name	Enter slope and intercept directly	Entered slope	Entered intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
Greyhound Roundabout	A534 Holt Rd (NE)		(calculated)	(calculated)	0.538	1147.550
Greyhound Roundabout	Bryn Estyn Rd		(calculated)	(calculated)	0.512	1079.294
Greyhound Roundabout	Cefn Rd		(calculated)	(calculated)	0.519	1117.812
Greyhound Roundabout	A534 Holt Rd (SW)		(calculated)	(calculated)	0.511	1097.912
Greyhound Roundabout	Dean Rd		(calculated)	(calculated)	0.603	1314.070
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)		(calculated)	(calculated)	0.679	1696.503
Holt Rd / Birkdale Rd	St Mellion Cres		(calculated)	(calculated)	0.569	1274.934
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)		(calculated)	(calculated)	0.639	1523.697
Holt Rd / Birkdale Rd	Birkdale Rd		(calculated)	(calculated)	0.528	1085.500

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
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	✓	✓	✓	HV Percentages	2.00			✓	✓	✓
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Entry Flows

General Flows Data

Name	Name	Profile Type	Use Turning Counts	Average Demand Flow (Veh/hr)	Flow Scaling Factor (%)
Greyhound Roundabout	A534 Holt Rd (NE)	DIRECT		N/A	100.000
Greyhound Roundabout	Bryn Estyn Rd	DIRECT		N/A	100.000
Greyhound Roundabout	Cefn Rd	DIRECT		N/A	100.000
Greyhound Roundabout	A534 Holt Rd (SW)	DIRECT		N/A	100.000
Greyhound Roundabout	Dean Rd	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	St Mellion Cres	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	Birkdale Rd	DIRECT		N/A	100.000

Turning Proportions

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (07:45-08:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.778	12.449	168.842	251.318	59.134
	Bryn Estyn Rd	5.447	0.000	2.334	4.668	4.668
	Cefn Rd	161.839	3.112	2.334	72.361	153.280
	A534 Holt Rd (SW)	204.633	6.225	42.794	0.778	56.799
	Dean Rd	94.925	14.783	175.844	79.363	7.781

Turning Proportions (Veh) - Greyhound Roundabout - (07:45-08:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.03	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.25	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (08:00-08:15)

	To					
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From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.929	14.866	201.614	300.098	70.611
	Bryn Estyn Rd	6.504	0.000	2.787	5.575	5.575
	Cefn Rd	193.252	3.716	2.787	86.406	183.032
	A534 Holt Rd (SW)	244.352	7.433	51.100	0.929	67.824
	Dean Rd	113.350	17.653	209.976	94.768	9.291

Turning Proportions (Veh) - Greyhound Roundabout - (08:00-08:15)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.03	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.25	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (08:15-08:30)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd

	A534 Holt Rd (NE)	1.138	18.206	246.925	367.543	86.481
	Bryn Estyn Rd	7.965	0.000	3.414	6.827	6.827
	Cefn Rd	236.684	4.552	3.414	105.825	224.167
	A534 Holt Rd (SW)	299.269	9.103	62.585	1.138	83.067
	Dean Rd	138.824	21.620	257.166	116.066	11.379

Turning Proportions (Veh) - Greyhound Roundabout - (08:15-08:30)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.03	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.25	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (08:30-08:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.138	18.206	246.925	367.543	86.481

	Bryn Estyn Rd	7.965	0.000	3.414	6.827	6.827
	Cefn Rd	236.684	4.552	3.414	105.825	224.167
	A534 Holt Rd (SW)	299.269	9.103	62.585	1.138	83.067
	Dean Rd	138.824	21.620	257.166	116.066	11.379

Turning Proportions (Veh) - Greyhound Roundabout - (08:30-08:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.03	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.25	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (08:45-09:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.929	14.866	201.614	300.098	70.611
	Bryn Estyn Rd	6.504	0.000	2.787	5.575	5.575

	Cefn Rd	193.252	3.716	2.787	86.406	183.032
	A534 Holt Rd (SW)	244.352	7.433	51.100	0.929	67.824
	Dean Rd	113.350	17.653	209.976	94.768	9.291

Turning Proportions (Veh) - Greyhound Roundabout - (08:45-09:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.03	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.25	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (09:00-09:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.778	12.449	168.842	251.318	59.134
	Bryn Estyn Rd	5.447	0.000	2.334	4.668	4.668
	Cefn Rd	161.839	3.112	2.334	72.361	153.280

	A534 Holt Rd (SW)	204.633	6.225	42.794	0.778	56.799
	Dean Rd	94.925	14.783	175.844	79.363	7.781

Turning Proportions (Veh) - Greyhound Roundabout - (09:00-09:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.03	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.25	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (07:45-08:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.556	11.671	359.470	5.447
	St Mellion Cres	49.797	0.000	24.120	21.786
	A534 Holt Rd (SW)	430.274	9.337	0.778	21.008
	Birkdale Rd	40.460	5.447	63.024	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (07:45-08:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.05
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (08:00-08:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.858	13.936	429.242	6.504
	St Mellion Cres	59.462	0.000	28.802	26.015
	A534 Holt Rd (SW)	513.790	11.149	0.929	25.086
	Birkdale Rd	48.313	6.504	75.257	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (08:00-08:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01

	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.05
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (08:15-08:30)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	2.276	17.069	525.712	7.965
	St Mellion Cres	72.826	0.000	35.275	31.861
	A534 Holt Rd (SW)	629.261	13.655	1.138	30.723
	Birkdale Rd	59.171	7.965	92.170	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (08:15-08:30)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.05
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (08:30-08:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	2.276	17.069	525.712	7.965
	St Mellion Cres	72.826	0.000	35.275	31.861
	A534 Holt Rd (SW)	629.261	13.655	1.138	30.723
	Birkdale Rd	59.171	7.965	92.170	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (08:30-08:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.05
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (08:45-09:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.858	13.936	429.242	6.504

	St Mellion Cres	59.462	0.000	28.802	26.015
	A534 Holt Rd (SW)	513.790	11.149	0.929	25.086
	Birkdale Rd	48.313	6.504	75.257	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (08:45-09:00)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.05
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (09:00-09:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.556	11.671	359.470	5.447
	St Mellion Cres	49.797	0.000	24.120	21.786
	A534 Holt Rd (SW)	430.274	9.337	0.778	21.008
	Birkdale Rd	40.460	5.447	63.024	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (09:00-09:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.05
	Birkdale Rd	0.37	0.05	0.58	0.00

Vehicle Mix

Average PCU Per Vehicle - Greyhound Roundabout - (07:45-08:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.069	1.012	1.026
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (07:45-08:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.9	1.2	2.6
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (08:00-08:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.069	1.012	1.026
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (08:00-08:15)

	To					
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From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.9	1.2	2.6
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (08:15-08:30)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.069	1.012	1.026
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (08:15-08:30)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd

	A534 Holt Rd (NE)	100.0	0.0	6.9	1.2	2.6
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (08:30-08:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.069	1.012	1.026
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (08:30-08:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.9	1.2	2.6

	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (08:45-09:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.069	1.012	1.026
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (08:45-09:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.9	1.2	2.6
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0

	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (09:00-09:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.069	1.012	1.026
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (09:00-09:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.9	1.2	2.6
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0

	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (07:45-08:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.043	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.042	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (07:45-08:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	4.3	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.2	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (08:00-08:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.043	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.042	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (08:00-08:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	4.3	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.2	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (08:15-08:30)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.043	1.000

	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.042	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (08:15-08:30)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	4.3	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.2	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (08:30-08:45)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.043	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.042	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (08:30-08:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	4.3	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.2	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (08:45-09:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.043	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.042	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (08:45-09:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	4.3	0.0

	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.2	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (09:00-09:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.043	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.042	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (09:00-09:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	4.3	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.2	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Results

Results Summary for whole modelled period

Name	Name	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)	Total Queueing Delay (PCU-min)	Average Queueing Delay (s)	Rate Of Queueing Delay (PCU-min/min)	Inclusive Total Queueing Delay (PCU-min)	Inclusive Average Queueing Delay (s)
Greyhound Roundabout	A534 Holt Rd (NE)	0.84	26.09	5.13	D	621.01	931.51	230.77	14.86	2.56	230.81	14.87
Greyhound Roundabout	Bryn Estyn Rd	0.06	8.39	0.06	A	21.81	32.72	3.84	7.04	0.04	3.84	7.04
Greyhound Roundabout	Cefn Rd	0.74	17.99	2.87	C	495.16	742.73	146.29	11.82	1.63	146.31	11.82
Greyhound Roundabout	A534 Holt Rd (SW)	0.59	11.53	1.48	B	390.57	585.86	85.60	8.77	0.95	85.62	8.77
Greyhound Roundabout	Dean Rd	0.60	9.73	1.46	A	457.01	685.52	84.05	7.36	0.93	84.06	7.36
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.36	3.60	0.57	A	479.74	719.61	39.49	3.29	0.44	39.49	3.29
Holt Rd / Birkdale Rd	St Mellion Cres	0.15	4.71	0.18	A	116.65	174.97	12.51	4.29	0.14	12.51	4.29
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.48	4.99	0.97	A	584.40	876.60	63.60	4.35	0.71	63.61	4.35
Holt Rd / Birkdale Rd	Birkdale Rd	0.23	6.89	0.31	A	134.67	202.00	20.19	6.00	0.22	20.19	6.00

Existing Layout - 2020 Baseline, PM Peak

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Roundabout Capacity Model	Description	Include In Report	Use Specific Demand Set(s)	Specific Demand Set(s)	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
Existing Layout	ARCADY		✓				100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Results For Central Hour Only	Single Time Segment Only	Locked	Run Automatically	Use Relationship	Relationship
2020 Baseline, PM Peak	2020 Baseline	PM Peak		Varies by Arm	16:45	18:15	90	15			✓	✓	✓	D2*1.0316

Junction Network

Junctions

Junction	Junction	Name	Junction Type	Arm Order	Grade Separated	Large Roundabout	Do Geometric Delay	Junction Delay (s)	Junction LOS
1	1	Greyhound Roundabout	Roundabout	1,2,3,4,5				36.26	E
2	2	Holt Rd / Birkdale Rd	Roundabout	1,2,3,4				4.99	A

Junction Network Options

Driving Side	Lighting
Left	Normal/unknown

Arms

Arms

Name	Name	Arm	Name	Description
Greyhound Roundabout	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Greyhound Roundabout	Bryn Estyn Rd	2	Bryn Estyn Rd	
Greyhound Roundabout	Cefn Rd	3	Cefn Rd	
Greyhound Roundabout	A534 Holt Rd (SW)	4	A534 Holt Rd (SW)	
Greyhound Roundabout	Dean Rd	5	Dean Rd	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	

Holt Rd / Birkdale Rd	St Mellion Cres	2	St Mellion Cres	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3	A534 Holt Rd (SW)	
Holt Rd / Birkdale Rd	Birkdale Rd	4	Birkdale Rd	

Capacity Options

Name	Name	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
Greyhound Roundabout	A534 Holt Rd (NE)	0.00	99999.00		0.00
Greyhound Roundabout	Bryn Estyn Rd	0.00	99999.00		0.00
Greyhound Roundabout	Cefn Rd	0.00	99999.00		0.00
Greyhound Roundabout	A534 Holt Rd (SW)	0.00	99999.00		0.00
Greyhound Roundabout	Dean Rd	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	St Mellion Cres	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	Birkdale Rd	0.00	99999.00		0.00

Roundabout Geometry

Name	Name	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
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Greyhound Roundabout	A534 Holt Rd (NE)	3.20	6.00	2.40	14.90	35.80	25.50	
Greyhound Roundabout	Bryn Estyn Rd	3.40	4.90	1.30	9.30	35.80	26.00	
Greyhound Roundabout	Cefn Rd	3.40	4.20	3.40	10.60	35.80	30.00	
Greyhound Roundabout	A534 Holt Rd (SW)	3.50	4.70	1.50	9.20	35.80	29.50	
Greyhound Roundabout	Dean Rd	3.50	4.30	3.10	82.50	35.80	11.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	3.50	6.00	18.10	26.90	29.80	13.50	
Holt Rd / Birkdale Rd	St Mellion Cres	3.30	4.60	10.90	14.20	29.80	26.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3.90	5.30	7.30	22.90	29.80	16.00	
Holt Rd / Birkdale Rd	Birkdale Rd	3.60	3.90	0.10	12.40	29.80	25.00	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Name	Name	Enter slope and intercept directly	Entered slope	Entered intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
Greyhound Roundabout	A534 Holt Rd (NE)		(calculated)	(calculated)	0.538	1147.550
Greyhound Roundabout	Bryn Estyn Rd		(calculated)	(calculated)	0.512	1079.294

Greyhound Roundabout	Cefn Rd		(calculated)	(calculated)	0.519	1117.812
Greyhound Roundabout	A534 Holt Rd (SW)		(calculated)	(calculated)	0.511	1097.912
Greyhound Roundabout	Dean Rd		(calculated)	(calculated)	0.603	1314.070
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)		(calculated)	(calculated)	0.679	1696.503
Holt Rd / Birkdale Rd	St Mellion Cres		(calculated)	(calculated)	0.569	1274.934
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)		(calculated)	(calculated)	0.639	1523.697
Holt Rd / Birkdale Rd	Birkdale Rd		(calculated)	(calculated)	0.528	1085.500

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
	✓	✓	✓	HV Percentages	2.00			✓	✓	✓

Entry Flows

General Flows Data

Name	Name	Profile Type	Use Turning Counts	Average Demand Flow (Veh/hr)	Flow Scaling Factor (%)
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Greyhound Roundabout	A534 Holt Rd (NE)	DIRECT		N/A	100.000
Greyhound Roundabout	Bryn Estyn Rd	DIRECT		N/A	100.000
Greyhound Roundabout	Cefn Rd	DIRECT		N/A	100.000
Greyhound Roundabout	A534 Holt Rd (SW)	DIRECT		N/A	100.000
Greyhound Roundabout	Dean Rd	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	St Mellion Cres	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	Birkdale Rd	DIRECT		N/A	100.000

Turning Proportions

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (16:45-17:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	23.299	208.140	293.571	108.730
	Bryn Estyn Rd	9.320	0.000	3.883	17.086	13.203
	Cefn Rd	118.826	10.096	0.777	66.015	146.009

	A534 Holt Rd (SW)	263.282	8.543	55.142	0.000	73.004
	Dean Rd	73.781	21.746	104.070	46.599	5.437

Turning Proportions (Veh) - Greyhound Roundabout - (16:45-17:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.43
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.29	0.09	0.41	0.19	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (17:00-17:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	27.822	248.540	350.552	129.834
	Bryn Estyn Rd	11.129	0.000	4.637	20.403	15.766
	Cefn Rd	141.890	12.056	0.927	78.828	174.349
	A534 Holt Rd (SW)	314.384	10.201	65.844	0.000	87.174

	Dean Rd	88.102	25.967	124.270	55.643	6.492
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Turning Proportions (Veh) - Greyhound Roundabout - (17:00-17:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.43
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.29	0.09	0.41	0.19	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (17:15-17:30)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	34.074	304.398	429.337	159.014
	Bryn Estyn Rd	13.630	0.000	5.679	24.988	19.309
	Cefn Rd	173.779	14.766	1.136	96.544	213.533
	A534 Holt Rd (SW)	385.041	12.494	80.643	0.000	106.766
	Dean Rd	107.902	31.803	152.199	68.149	7.951

Turning Proportions (Veh) - Greyhound Roundabout - (17:15-17:30)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.43
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.29	0.09	0.41	0.19	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (17:30-17:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	34.074	304.398	429.337	159.014
	Bryn Estyn Rd	13.630	0.000	5.679	24.988	19.309
	Cefn Rd	173.779	14.766	1.136	96.544	213.533
	A534 Holt Rd (SW)	385.041	12.494	80.643	0.000	106.766
	Dean Rd	107.902	31.803	152.199	68.149	7.951

Turning Proportions (Veh) - Greyhound Roundabout - (17:30-17:45)

	To					
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From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.43
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.29	0.09	0.41	0.19	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (17:45-18:00)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	27.822	248.540	350.552	129.834
	Bryn Estyn Rd	11.129	0.000	4.637	20.403	15.766
	Cefn Rd	141.890	12.056	0.927	78.828	174.349
	A534 Holt Rd (SW)	314.384	10.201	65.844	0.000	87.174
	Dean Rd	88.102	25.967	124.270	55.643	6.492

Turning Proportions (Veh) - Greyhound Roundabout - (17:45-18:00)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd

	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.43
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.29	0.09	0.41	0.19	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (18:00-18:15)

		To				
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	23.299	208.140	293.571	108.730
	Bryn Estyn Rd	9.320	0.000	3.883	17.086	13.203
	Cefn Rd	118.826	10.096	0.777	66.015	146.009
	A534 Holt Rd (SW)	263.282	8.543	55.142	0.000	73.004
	Dean Rd	73.781	21.746	104.070	46.599	5.437

Turning Proportions (Veh) - Greyhound Roundabout - (18:00-18:15)

		To				
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17

	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.43
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.29	0.09	0.41	0.19	0.02

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (16:45-17:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.000	34.172	587.918	33.396
	St Mellion Cres	18.639	0.000	19.416	2.330
	A534 Holt Rd (SW)	354.926	19.416	0.777	50.482
	Birkdale Rd	17.863	6.213	31.066	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (16:45-17:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.83	0.05	0.00	0.12

	Birkdale Rd	0.32	0.11	0.56	0.00
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Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (17:00-17:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.000	40.805	702.032	39.878
	St Mellion Cres	22.257	0.000	23.185	2.782
	A534 Holt Rd (SW)	423.816	23.185	0.927	60.280
	Birkdale Rd	21.330	7.419	37.095	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (17:00-17:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.83	0.05	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (17:15-17:30)

	To				
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From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.000	49.976	859.810	48.840
	St Mellion Cres	27.260	0.000	28.395	3.407
	A534 Holt Rd (SW)	519.066	28.395	1.136	73.828
	Birkdale Rd	26.124	9.087	45.433	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (17:15-17:30)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.83	0.05	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (17:30-17:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.000	49.976	859.810	48.840
	St Mellion Cres	27.260	0.000	28.395	3.407

	A534 Holt Rd (SW)	519.066	28.395	1.136	73.828
	Birkdale Rd	26.124	9.087	45.433	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (17:30-17:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.83	0.05	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (17:45-18:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.000	40.805	702.032	39.878
	St Mellion Cres	22.257	0.000	23.185	2.782
	A534 Holt Rd (SW)	423.816	23.185	0.927	60.280
	Birkdale Rd	21.330	7.419	37.095	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (17:45-18:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.83	0.05	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (18:00-18:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.000	34.172	587.918	33.396
	St Mellion Cres	18.639	0.000	19.416	2.330
	A534 Holt Rd (SW)	354.926	19.416	0.777	50.482
	Birkdale Rd	17.863	6.213	31.066	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (18:00-18:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05

	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.83	0.05	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Vehicle Mix

Average PCU Per Vehicle - Greyhound Roundabout - (16:45-17:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (16:45-17:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4

	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (17:00-17:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (17:00-17:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0

	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (17:15-17:30)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (17:15-17:30)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0

	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (17:30-17:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (17:30-17:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0

	Dean Rd	0.0	0.0	0.0	0.0	0.0
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Average PCU Per Vehicle - Greyhound Roundabout - (17:45-18:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (17:45-18:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (18:00-18:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (18:00-18:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (16:45-17:00)

	To
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From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (16:45-17:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (17:00-17:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000

	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (17:00-17:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (17:15-17:30)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (17:15-17:30)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (17:30-17:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (17:30-17:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0

	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (17:45-18:00)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (17:45-18:00)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (18:00-18:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (18:00-18:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Results

Results Summary for whole modelled period

Name	Name	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)	Total Queueing Delay (PCU-min)	Average Queueing Delay (s)	Rate Of Queueing Delay (PCU-min/min)	Inclusive Total Queueing Delay (PCU-min)	Inclusive Average Queueing Delay (s)
Greyhound Roundabout	A534 Holt Rd (NE)	0.99	72.84	18.44	F	779.89	1169.83	582.92	29.90	6.48	583.02	29.90
Greyhound Roundabout	Bryn Estyn Rd	0.14	8.89	0.16	A	53.01	79.52	9.73	7.34	0.11	9.73	7.34
Greyhound Roundabout	Cefn Rd	0.68	14.92	2.04	B	420.37	630.56	109.80	10.45	1.22	109.82	10.45
Greyhound Roundabout	A534 Holt Rd (SW)	0.74	17.69	2.79	C	488.47	732.70	142.46	11.67	1.58	142.48	11.67
Greyhound Roundabout	Dean Rd	0.41	6.76	0.69	A	306.70	460.05	43.17	5.63	0.48	43.18	5.63
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.59	5.39	1.44	A	804.68	1207.01	89.88	4.47	1.00	89.89	4.47
Holt Rd / Birkdale Rd	St Mellion Cres	0.08	5.38	0.09	A	49.22	73.84	5.87	4.77	0.07	5.87	4.77
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.43	4.29	0.74	A	522.64	783.96	50.18	3.84	0.56	50.18	3.84
Holt Rd / Birkdale Rd	Birkdale Rd	0.11	5.32	0.12	A	69.10	103.65	8.47	4.90	0.09	8.47	4.90

Existing Layout - 2020 Baseline + Dev, AM Peak

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Roundabout Capacity Model	Description	Include In Report	Use Specific Demand Set(s)	Specific Demand Set(s)	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
Existing Layout	ARCADY		✓				100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Results For Central Hour Only	Single Time Segment Only	Locked	Run Automatically	Use Relationship	Relationship
2020 Baseline + Dev, AM Peak	2020 Baseline + Dev	AM Peak		Varies by Arm	07:45	09:15	90	15			✓	✓	✓	D3+D11

Junction Network

Junctions

Junction	Junction	Name	Junction Type	Arm Order	Grade Separated	Large Roundabout	Do Geometric Delay	Junction Delay (s)	Junction LOS
1	1	Greyhound Roundabout	Roundabout	1,2,3,4,5				18.30	C

2	2	Holt Rd / Birkdale Rd	Roundabout	1,2,3,4				4.74	A
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Junction Network Options

Driving Side	Lighting
Left	Normal/unknown

Arms

Arms

Name	Name	Arm	Name	Description
Greyhound Roundabout	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Greyhound Roundabout	Bryn Estyn Rd	2	Bryn Estyn Rd	
Greyhound Roundabout	Cefn Rd	3	Cefn Rd	
Greyhound Roundabout	A534 Holt Rd (SW)	4	A534 Holt Rd (SW)	
Greyhound Roundabout	Dean Rd	5	Dean Rd	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Holt Rd / Birkdale Rd	St Mellion Cres	2	St Mellion Cres	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3	A534 Holt Rd (SW)	
Holt Rd / Birkdale Rd	Birkdale Rd	4	Birkdale Rd	

Capacity Options

Name	Name	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
Greyhound Roundabout	A534 Holt Rd (NE)	0.00	99999.00		0.00
Greyhound Roundabout	Bryn Estyn Rd	0.00	99999.00		0.00
Greyhound Roundabout	Cefn Rd	0.00	99999.00		0.00
Greyhound Roundabout	A534 Holt Rd (SW)	0.00	99999.00		0.00
Greyhound Roundabout	Dean Rd	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	St Mellion Cres	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	Birkdale Rd	0.00	99999.00		0.00

Roundabout Geometry

Name	Name	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
Greyhound Roundabout	A534 Holt Rd (NE)	3.20	6.00	2.40	14.90	35.80	25.50	
Greyhound Roundabout	Bryn Estyn Rd	3.40	4.90	1.30	9.30	35.80	26.00	
Greyhound Roundabout	Cefn Rd	3.40	4.20	3.40	10.60	35.80	30.00	

Greyhound Roundabout	A534 Holt Rd (SW)	3.50	4.70	1.50	9.20	35.80	29.50	
Greyhound Roundabout	Dean Rd	3.50	4.30	3.10	82.50	35.80	11.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	3.50	6.00	18.10	26.90	29.80	13.50	
Holt Rd / Birkdale Rd	St Mellion Cres	3.30	4.60	10.90	14.20	29.80	26.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3.90	5.30	7.30	22.90	29.80	16.00	
Holt Rd / Birkdale Rd	Birkdale Rd	3.60	3.90	0.10	12.40	29.80	25.00	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Name	Name	Enter slope and intercept directly	Entered slope	Entered intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
Greyhound Roundabout	A534 Holt Rd (NE)		(calculated)	(calculated)	0.538	1147.550
Greyhound Roundabout	Bryn Estyn Rd		(calculated)	(calculated)	0.512	1079.294
Greyhound Roundabout	Cefn Rd		(calculated)	(calculated)	0.519	1117.812
Greyhound Roundabout	A534 Holt Rd (SW)		(calculated)	(calculated)	0.511	1097.912
Greyhound Roundabout	Dean Rd		(calculated)	(calculated)	0.603	1314.070
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)		(calculated)	(calculated)	0.679	1696.503

Holt Rd / Birkdale Rd	St Mellion Cres		(calculated)	(calculated)	0.569	1274.934
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)		(calculated)	(calculated)	0.639	1523.697
Holt Rd / Birkdale Rd	Birkdale Rd		(calculated)	(calculated)	0.528	1085.500

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
	✓	✓	✓	HV Percentages	2.00			✓	✓	✓

Entry Flows

General Flows Data

Name	Name	Profile Type	Use Turning Counts	Average Demand Flow (Veh/hr)	Flow Scaling Factor (%)
Greyhound Roundabout	A534 Holt Rd (NE)	DIRECT		N/A	100.000
Greyhound Roundabout	Bryn Estyn Rd	DIRECT		N/A	100.000
Greyhound Roundabout	Cefn Rd	DIRECT		N/A	100.000
Greyhound Roundabout	A534 Holt Rd (SW)	DIRECT		N/A	100.000

Greyhound Roundabout	Dean Rd	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	St Mellion Cres	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	Birkdale Rd	DIRECT		N/A	100.000

Turning Proportions

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (07:45-08:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.778	12.449	171.100	258.093	60.639
	Bryn Estyn Rd	5.447	0.000	2.334	4.668	4.668
	Cefn Rd	162.839	3.112	2.334	72.361	153.280
	A534 Holt Rd (SW)	207.633	6.225	42.794	0.778	56.799
	Dean Rd	95.925	14.783	175.844	79.363	7.781

Turning Proportions (Veh) - Greyhound Roundabout - (07:45-08:00)

	To
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From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.02	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.26	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (08:00-08:15)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.929	14.866	204.311	308.189	72.409
	Bryn Estyn Rd	6.504	0.000	2.787	5.575	5.575
	Cefn Rd	194.252	3.716	2.787	86.406	183.032
	A534 Holt Rd (SW)	247.352	7.433	51.100	0.929	67.824
	Dean Rd	114.350	17.653	209.976	94.768	9.291

Turning Proportions (Veh) - Greyhound Roundabout - (08:00-08:15)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd

	A534 Holt Rd (NE)	0.00	0.02	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.26	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (08:15-08:30)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.138	18.206	250.228	377.452	88.683
	Bryn Estyn Rd	7.965	0.000	3.414	6.827	6.827
	Cefn Rd	237.684	4.552	3.414	105.825	224.167
	A534 Holt Rd (SW)	302.269	9.103	62.585	1.138	83.067
	Dean Rd	139.824	21.620	257.166	116.066	11.379

Turning Proportions (Veh) - Greyhound Roundabout - (08:15-08:30)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.02	0.34	0.51	0.12

	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.26	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (08:30-08:45)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	1.138	18.206	250.228	377.452	88.683
	Bryn Estyn Rd	7.965	0.000	3.414	6.827	6.827
	Cefn Rd	237.684	4.552	3.414	105.825	224.167
	A534 Holt Rd (SW)	302.269	9.103	62.585	1.138	83.067
	Dean Rd	139.824	21.620	257.166	116.066	11.379

Turning Proportions (Veh) - Greyhound Roundabout - (08:30-08:45)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	0.00	0.02	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27

	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.26	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (08:45-09:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.929	14.866	204.311	308.189	72.409
	Bryn Estyn Rd	6.504	0.000	2.787	5.575	5.575
	Cefn Rd	194.252	3.716	2.787	86.406	183.032
	A534 Holt Rd (SW)	247.352	7.433	51.100	0.929	67.824
	Dean Rd	114.350	17.653	209.976	94.768	9.291

Turning Proportions (Veh) - Greyhound Roundabout - (08:45-09:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.02	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39

	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.26	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (09:00-09:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.778	12.449	171.100	258.093	60.639
	Bryn Estyn Rd	5.447	0.000	2.334	4.668	4.668
	Cefn Rd	162.839	3.112	2.334	72.361	153.280
	A534 Holt Rd (SW)	207.633	6.225	42.794	0.778	56.799
	Dean Rd	95.925	14.783	175.844	79.363	7.781

Turning Proportions (Veh) - Greyhound Roundabout - (09:00-09:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.02	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18

	Dean Rd	0.26	0.04	0.47	0.21	0.02
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Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (07:45-08:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.556	11.671	364.740	5.447
	St Mellion Cres	49.797	0.000	24.120	21.786
	A534 Holt Rd (SW)	444.579	9.337	0.778	21.008
	Birkdale Rd	40.460	5.447	63.024	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (07:45-08:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.04
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (08:00-08:15)

	To				
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From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.858	13.936	435.535	6.504
	St Mellion Cres	59.462	0.000	28.802	26.015
	A534 Holt Rd (SW)	530.870	11.149	0.929	25.086
	Birkdale Rd	48.313	6.504	75.257	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (08:00-08:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.04
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (08:15-08:30)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	2.276	17.069	533.419	7.965
	St Mellion Cres	72.826	0.000	35.275	31.861

	A534 Holt Rd (SW)	650.181	13.655	1.138	30.723
	Birkdale Rd	59.171	7.965	92.170	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (08:15-08:30)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.04
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (08:30-08:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	2.276	17.069	533.419	7.965
	St Mellion Cres	72.826	0.000	35.275	31.861
	A534 Holt Rd (SW)	650.181	13.655	1.138	30.723
	Birkdale Rd	59.171	7.965	92.170	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (08:30-08:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.04
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (08:45-09:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.858	13.936	435.535	6.504
	St Mellion Cres	59.462	0.000	28.802	26.015
	A534 Holt Rd (SW)	530.870	11.149	0.929	25.086
	Birkdale Rd	48.313	6.504	75.257	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (08:45-09:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01

	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.04
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (09:00-09:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.556	11.671	364.740	5.447
	St Mellion Cres	49.797	0.000	24.120	21.786
	A534 Holt Rd (SW)	444.579	9.337	0.778	21.008
	Birkdale Rd	40.460	5.447	63.024	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (09:00-09:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.04
	Birkdale Rd	0.37	0.05	0.58	0.00

Vehicle Mix

Average PCU Per Vehicle - Greyhound Roundabout - (07:45-08:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.068	1.012	1.025
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (07:45-08:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.8	1.2	2.5
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (08:00-08:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.068	1.012	1.025
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (08:00-08:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.8	1.2	2.5
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (08:15-08:30)

	To					
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From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.068	1.012	1.025
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (08:15-08:30)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.8	1.2	2.5
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (08:30-08:45)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd

	A534 Holt Rd (NE)	2.000	1.000	1.068	1.012	1.025
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (08:30-08:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.8	1.2	2.5
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (08:45-09:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.068	1.012	1.025

	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (08:45-09:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.8	1.2	2.5
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (09:00-09:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.068	1.012	1.025
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000

	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (09:00-09:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.8	1.2	2.5
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (07:45-08:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.042	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.041	1.000	1.000	1.000

	Birkdale Rd	1.000	1.286	1.000	1.000
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Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (07:45-08:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	4.2	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.1	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (08:00-08:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.042	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.041	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (08:00-08:15)

	To				
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From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	4.2	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.1	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (08:15-08:30)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.042	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.041	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (08:15-08:30)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	4.2	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0

	A534 Holt Rd (SW)	4.1	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (08:30-08:45)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.042	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.041	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (08:30-08:45)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.0	0.0	4.2	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.1	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (08:45-09:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.042	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.041	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (08:45-09:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	4.2	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.1	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (09:00-09:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.042	1.000

	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.041	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (09:00-09:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.0	0.0	4.2	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.1	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Results

Results Summary for whole modelled period

Name	Name	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)	Total Queueing Delay (PCU-min)	Average Queueing Delay (s)	Rate Of Queueing Delay (PCU-min/min)	Inclusive Total Queueing Delay (PCU-min)	Inclusive Average Queueing Delay (s)
Greyhound Roundabout	A534 Holt Rd (NE)	0.86	28.80	5.75	D	633.85	950.78	250.48	15.81	2.78	250.52	15.81

Greyhound Roundabout	Bryn Estyn Rd	0.06	8.53	0.06	A	21.81	32.72	3.88	7.12	0.04	3.88	7.12
Greyhound Roundabout	Cefn Rd	0.75	18.51	2.95	C	495.12	742.68	149.04	12.04	1.66	149.07	12.04
Greyhound Roundabout	A534 Holt Rd (SW)	0.59	11.56	1.48	B	390.48	585.73	85.76	8.79	0.95	85.78	8.79
Greyhound Roundabout	Dean Rd	0.60	9.74	1.46	A	457.01	685.51	84.15	7.37	0.94	84.16	7.37
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.36	3.62	0.59	A	486.17	729.25	40.24	3.31	0.45	40.24	3.31
Holt Rd / Birkdale Rd	St Mellion Cres	0.16	4.74	0.18	A	116.65	174.97	12.57	4.31	0.14	12.57	4.31
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.50	5.13	1.02	A	601.84	902.76	66.87	4.44	0.74	66.88	4.44
Holt Rd / Birkdale Rd	Birkdale Rd	0.24	7.04	0.31	A	134.67	202.00	20.52	6.10	0.23	20.53	6.10

Existing Layout - 2020 Baseline + Dev, PM Peak

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Roundabout Capacity Model	Description	Include In Report	Use Specific Demand Set(s)	Specific Demand Set(s)	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
Existing Layout	ARCADY		✓				100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Results For Central Hour Only	Single Time Segment Only	Locked	Run Automatically	Use Relationship	Relationship
2020 Baseline + Dev, PM Peak	2020 Baseline + Dev	PM Peak		Varies by Arm	16:45	18:15	90	15			✓	✓	✓	D4+D12

Junction Network

Junctions

Junction	Junction	Name	Junction Type	Arm Order	Grade Separated	Large Roundabout	Do Geometric Delay	Junction Delay (s)	Junction LOS
1	1	Greyhound Roundabout	Roundabout	1,2,3,4,5				38.11	E
2	2	Holt Rd / Birkdale Rd	Roundabout	1,2,3,4				5.11	A

Junction Network Options

Driving Side	Lighting
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Left	Normal/unknown
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Arms

Arms

Name	Name	Arm	Name	Description
Greyhound Roundabout	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Greyhound Roundabout	Bryn Estyn Rd	2	Bryn Estyn Rd	
Greyhound Roundabout	Cefn Rd	3	Cefn Rd	
Greyhound Roundabout	A534 Holt Rd (SW)	4	A534 Holt Rd (SW)	
Greyhound Roundabout	Dean Rd	5	Dean Rd	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Holt Rd / Birkdale Rd	St Mellion Cres	2	St Mellion Cres	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3	A534 Holt Rd (SW)	
Holt Rd / Birkdale Rd	Birkdale Rd	4	Birkdale Rd	

Capacity Options

Name	Name	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
Greyhound Roundabout	A534 Holt Rd (NE)	0.00	99999.00		0.00

Greyhound Roundabout	Bryn Estyn Rd	0.00	99999.00		0.00
Greyhound Roundabout	Cefn Rd	0.00	99999.00		0.00
Greyhound Roundabout	A534 Holt Rd (SW)	0.00	99999.00		0.00
Greyhound Roundabout	Dean Rd	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	St Mellion Cres	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	Birkdale Rd	0.00	99999.00		0.00

Roundabout Geometry

Name	Name	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
Greyhound Roundabout	A534 Holt Rd (NE)	3.20	6.00	2.40	14.90	35.80	25.50	
Greyhound Roundabout	Bryn Estyn Rd	3.40	4.90	1.30	9.30	35.80	26.00	
Greyhound Roundabout	Cefn Rd	3.40	4.20	3.40	10.60	35.80	30.00	
Greyhound Roundabout	A534 Holt Rd (SW)	3.50	4.70	1.50	9.20	35.80	29.50	
Greyhound Roundabout	Dean Rd	3.50	4.30	3.10	82.50	35.80	11.50	

Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	3.50	6.00	18.10	26.90	29.80	13.50	
Holt Rd / Birkdale Rd	St Mellion Cres	3.30	4.60	10.90	14.20	29.80	26.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3.90	5.30	7.30	22.90	29.80	16.00	
Holt Rd / Birkdale Rd	Birkdale Rd	3.60	3.90	0.10	12.40	29.80	25.00	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Name	Name	Enter slope and intercept directly	Entered slope	Entered intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
Greyhound Roundabout	A534 Holt Rd (NE)		(calculated)	(calculated)	0.538	1147.550
Greyhound Roundabout	Bryn Estyn Rd		(calculated)	(calculated)	0.512	1079.294
Greyhound Roundabout	Cefn Rd		(calculated)	(calculated)	0.519	1117.812
Greyhound Roundabout	A534 Holt Rd (SW)		(calculated)	(calculated)	0.511	1097.912
Greyhound Roundabout	Dean Rd		(calculated)	(calculated)	0.603	1314.070
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)		(calculated)	(calculated)	0.679	1696.503
Holt Rd / Birkdale Rd	St Mellion Cres		(calculated)	(calculated)	0.569	1274.934
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)		(calculated)	(calculated)	0.639	1523.697
Holt Rd / Birkdale Rd	Birkdale Rd		(calculated)	(calculated)	0.528	1085.500

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
	✓	✓	✓	HV Percentages	2.00			✓	✓	✓

Entry Flows

General Flows Data

Name	Name	Profile Type	Use Turning Counts	Average Demand Flow (Veh/hr)	Flow Scaling Factor (%)
Greyhound Roundabout	A534 Holt Rd (NE)	DIRECT		N/A	100.000
Greyhound Roundabout	Bryn Estyn Rd	DIRECT		N/A	100.000
Greyhound Roundabout	Cefn Rd	DIRECT		N/A	100.000
Greyhound Roundabout	A534 Holt Rd (SW)	DIRECT		N/A	100.000
Greyhound Roundabout	Dean Rd	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	St Mellion Cres	DIRECT		N/A	100.000

Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	Birkdale Rd	DIRECT		N/A	100.000

Turning Proportions

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (16:45-17:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	23.299	208.893	296.582	109.483
	Bryn Estyn Rd	9.320	0.000	3.883	17.086	13.203
	Cefn Rd	120.826	10.096	0.777	66.015	146.009
	A534 Holt Rd (SW)	269.305	8.543	55.142	0.000	73.004
	Dean Rd	75.781	21.746	104.070	46.599	5.437

Turning Proportions (Veh) - Greyhound Roundabout - (16:45-17:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30

	Cefn Rd	0.35	0.03	0.00	0.19	0.42
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.30	0.09	0.41	0.18	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (17:00-17:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	27.822	249.439	354.148	130.733
	Bryn Estyn Rd	11.129	0.000	4.637	20.403	15.766
	Cefn Rd	143.890	12.056	0.927	78.828	174.349
	A534 Holt Rd (SW)	321.576	10.201	65.844	0.000	87.174
	Dean Rd	90.102	25.967	124.270	55.643	6.492

Turning Proportions (Veh) - Greyhound Roundabout - (17:00-17:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.43

	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.30	0.09	0.41	0.18	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (17:15-17:30)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	34.074	305.499	433.741	160.115
	Bryn Estyn Rd	13.630	0.000	5.679	24.988	19.309
	Cefn Rd	175.779	14.766	1.136	96.544	213.533
	A534 Holt Rd (SW)	393.849	12.494	80.643	0.000	106.766
	Dean Rd	109.902	31.803	152.199	68.149	7.951

Turning Proportions (Veh) - Greyhound Roundabout - (17:15-17:30)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.43
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18

	Dean Rd	0.30	0.09	0.41	0.18	0.02
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Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (17:30-17:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	34.074	305.499	433.741	160.115
	Bryn Estyn Rd	13.630	0.000	5.679	24.988	19.309
	Cefn Rd	175.779	14.766	1.136	96.544	213.533
	A534 Holt Rd (SW)	393.849	12.494	80.643	0.000	106.766
	Dean Rd	109.902	31.803	152.199	68.149	7.951

Turning Proportions (Veh) - Greyhound Roundabout - (17:30-17:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.43
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.30	0.09	0.41	0.18	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (17:45-18:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	27.822	249.439	354.148	130.733
	Bryn Estyn Rd	11.129	0.000	4.637	20.403	15.766
	Cefn Rd	143.890	12.056	0.927	78.828	174.349
	A534 Holt Rd (SW)	321.576	10.201	65.844	0.000	87.174
	Dean Rd	90.102	25.967	124.270	55.643	6.492

Turning Proportions (Veh) - Greyhound Roundabout - (17:45-18:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.43
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.30	0.09	0.41	0.18	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (18:00-18:15)

	To					
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From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	23.299	208.893	296.582	109.483
	Bryn Estyn Rd	9.320	0.000	3.883	17.086	13.203
	Cefn Rd	120.826	10.096	0.777	66.015	146.009
	A534 Holt Rd (SW)	269.305	8.543	55.142	0.000	73.004
	Dean Rd	75.781	21.746	104.070	46.599	5.437

Turning Proportions (Veh) - Greyhound Roundabout - (18:00-18:15)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.42
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.30	0.09	0.41	0.18	0.02

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (16:45-17:00)

From	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd

	A534 Holt Rd (NE)	0.000	34.172	601.470	33.396
	St Mellion Cres	18.639	0.000	19.416	2.330
	A534 Holt Rd (SW)	362.454	19.416	0.777	50.482
	Birkdale Rd	17.863	6.213	31.066	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (16:45-17:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.84	0.04	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (17:00-17:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.000	40.805	718.214	39.878
	St Mellion Cres	22.257	0.000	23.185	2.782
	A534 Holt Rd (SW)	432.806	23.185	0.927	60.280

	Birkdale Rd	21.330	7.419	37.095	0.000
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Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (17:00-17:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.84	0.04	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (17:15-17:30)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.000	49.976	879.629	48.840
	St Mellion Cres	27.260	0.000	28.395	3.407
	A534 Holt Rd (SW)	530.077	28.395	1.136	73.828
	Birkdale Rd	26.124	9.087	45.433	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (17:15-17:30)

	To				
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From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.84	0.04	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (17:30-17:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.000	49.976	879.629	48.840
	St Mellion Cres	27.260	0.000	28.395	3.407
	A534 Holt Rd (SW)	530.077	28.395	1.136	73.828
	Birkdale Rd	26.124	9.087	45.433	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (17:30-17:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06

	A534 Holt Rd (SW)	0.84	0.04	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (17:45-18:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.000	40.805	718.214	39.878
	St Mellion Cres	22.257	0.000	23.185	2.782
	A534 Holt Rd (SW)	432.806	23.185	0.927	60.280
	Birkdale Rd	21.330	7.419	37.095	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (17:45-18:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.84	0.04	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (18:00-18:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.000	34.172	601.470	33.396
	St Mellion Cres	18.639	0.000	19.416	2.330
	A534 Holt Rd (SW)	362.454	19.416	0.777	50.482
	Birkdale Rd	17.863	6.213	31.066	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (18:00-18:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.84	0.04	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Vehicle Mix

Average PCU Per Vehicle - Greyhound Roundabout - (16:45-17:00)

	To
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From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (16:45-17:00)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (17:00-17:15)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd

	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (17:00-17:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (17:15-17:30)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014

	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (17:15-17:30)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (17:30-17:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000

	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (17:30-17:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (17:45-18:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000

	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (17:45-18:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (18:00-18:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000

	Dean Rd	1.000	1.000	1.000	1.000	1.000
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Heavy Vehicle Percentages - Greyhound Roundabout - (18:00-18:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (16:45-17:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (16:45-17:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (17:00-17:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (17:00-17:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0

	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (17:15-17:30)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (17:15-17:30)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (17:30-17:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (17:30-17:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (17:45-18:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000

	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (17:45-18:00)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (18:00-18:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (18:00-18:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Results

Results Summary for whole modelled period

Name	Name	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)	Total Queueing Delay (PCU-min)	Average Queueing Delay (s)	Rate Of Queueing Delay (PCU-min/min)	Inclusive Total Queueing Delay (PCU-min)	Inclusive Average Queueing Delay (s)
Greyhound Roundabout	A534 Holt Rd (NE)	0.99	77.02	19.80	F	785.39	1178.09	615.73	31.36	6.84	615.83	31.36
Greyhound Roundabout	Bryn Estyn Rd	0.14	8.92	0.16	A	53.01	79.52	9.77	7.37	0.11	9.77	7.37
Greyhound Roundabout	Cefn Rd	0.68	15.03	2.05	C	420.35	630.53	110.49	10.51	1.23	110.51	10.52
Greyhound Roundabout	A534 Holt Rd (SW)	0.76	18.52	2.96	C	495.81	743.71	149.06	12.03	1.66	149.08	12.03

Greyhound Roundabout	Dean Rd	0.41	6.84	0.69	A	306.70	460.05	43.55	5.68	0.48	43.55	5.68
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.60	5.55	1.51	A	821.19	1231.79	93.78	4.57	1.04	93.79	4.57
Holt Rd / Birkdale Rd	St Mellion Cres	0.08	5.47	0.09	A	49.22	73.84	5.95	4.83	0.07	5.95	4.83
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.43	4.34	0.77	A	531.81	797.72	51.58	3.88	0.57	51.59	3.88
Holt Rd / Birkdale Rd	Birkdale Rd	0.11	5.36	0.12	A	69.10	103.65	8.53	4.94	0.09	8.53	4.94

Existing Layout - 2025 Baseline, AM Peak

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Roundabout Capacity Model	Description	Include In Report	Use Specific Demand Set(s)	Specific Demand Set(s)	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
Existing Layout	ARCADY		✓				100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Results For Central Hour Only	Single Time Segment Only	Locked	Run Automatically	Use Relationship	Relationship
2025 Baseline, AM Peak	2025 Baseline	AM Peak		Varies by Arm	07:45	09:15	90	15			✓	✓	✓	D1*1.0936

Junction Network

Junctions

Junction	Junction	Name	Junction Type	Arm Order	Grade Separated	Large Roundabout	Do Geometric Delay	Junction Delay (s)	Junction LOS
1	1	Greyhound Roundabout	Roundabout	1,2,3,4,5				24.01	C
2	2	Holt Rd / Birkdale Rd	Roundabout	1,2,3,4				4.91	A

Junction Network Options

Driving Side	Lighting
Left	Normal/unknown

Arms

Arms

Name	Name	Arm	Name	Description
Greyhound Roundabout	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Greyhound Roundabout	Bryn Estyn Rd	2	Bryn Estyn Rd	
Greyhound Roundabout	Cefn Rd	3	Cefn Rd	
Greyhound Roundabout	A534 Holt Rd (SW)	4	A534 Holt Rd (SW)	
Greyhound Roundabout	Dean Rd	5	Dean Rd	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Holt Rd / Birkdale Rd	St Mellion Cres	2	St Mellion Cres	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3	A534 Holt Rd (SW)	
Holt Rd / Birkdale Rd	Birkdale Rd	4	Birkdale Rd	

Capacity Options

Name	Name	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
Greyhound Roundabout	A534 Holt Rd (NE)	0.00	99999.00		0.00
Greyhound Roundabout	Bryn Estyn Rd	0.00	99999.00		0.00
Greyhound Roundabout	Cefn Rd	0.00	99999.00		0.00
Greyhound Roundabout	A534 Holt Rd (SW)	0.00	99999.00		0.00
Greyhound Roundabout	Dean Rd	0.00	99999.00		0.00

Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	St Mellion Cres	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	Birkdale Rd	0.00	99999.00		0.00

Roundabout Geometry

Name	Name	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
Greyhound Roundabout	A534 Holt Rd (NE)	3.20	6.00	2.40	14.90	35.80	25.50	
Greyhound Roundabout	Bryn Estyn Rd	3.40	4.90	1.30	9.30	35.80	26.00	
Greyhound Roundabout	Cefn Rd	3.40	4.20	3.40	10.60	35.80	30.00	
Greyhound Roundabout	A534 Holt Rd (SW)	3.50	4.70	1.50	9.20	35.80	29.50	
Greyhound Roundabout	Dean Rd	3.50	4.30	3.10	82.50	35.80	11.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	3.50	6.00	18.10	26.90	29.80	13.50	
Holt Rd / Birkdale Rd	St Mellion Cres	3.30	4.60	10.90	14.20	29.80	26.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3.90	5.30	7.30	22.90	29.80	16.00	

Holt Rd / Birkdale Rd	Birkdale Rd	3.60	3.90	0.10	12.40	29.80	25.00	
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Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Name	Name	Enter slope and intercept directly	Entered slope	Entered intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
Greyhound Roundabout	A534 Holt Rd (NE)		(calculated)	(calculated)	0.538	1147.550
Greyhound Roundabout	Bryn Estyn Rd		(calculated)	(calculated)	0.512	1079.294
Greyhound Roundabout	Cefn Rd		(calculated)	(calculated)	0.519	1117.812
Greyhound Roundabout	A534 Holt Rd (SW)		(calculated)	(calculated)	0.511	1097.912
Greyhound Roundabout	Dean Rd		(calculated)	(calculated)	0.603	1314.070
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)		(calculated)	(calculated)	0.679	1696.503
Holt Rd / Birkdale Rd	St Mellion Cres		(calculated)	(calculated)	0.569	1274.934
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)		(calculated)	(calculated)	0.639	1523.697
Holt Rd / Birkdale Rd	Birkdale Rd		(calculated)	(calculated)	0.528	1085.500

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
	✓	✓	✓	HV Percentages	2.00			✓	✓	✓

Entry Flows

General Flows Data

Name	Name	Profile Type	Use Turning Counts	Average Demand Flow (Veh/hr)	Flow Scaling Factor (%)
Greyhound Roundabout	A534 Holt Rd (NE)	DIRECT		N/A	100.000
Greyhound Roundabout	Bryn Estyn Rd	DIRECT		N/A	100.000
Greyhound Roundabout	Cefn Rd	DIRECT		N/A	100.000
Greyhound Roundabout	A534 Holt Rd (SW)	DIRECT		N/A	100.000
Greyhound Roundabout	Dean Rd	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	St Mellion Cres	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	Birkdale Rd	DIRECT		N/A	100.000

Turning Proportions

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (07:45-08:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.823	13.173	178.660	265.932	62.572
	Bryn Estyn Rd	5.763	0.000	2.470	4.940	4.940
	Cefn Rd	171.250	3.293	2.470	76.569	162.194
	A534 Holt Rd (SW)	216.533	6.587	45.283	0.823	60.102
	Dean Rd	100.445	15.643	186.070	83.979	8.233

Turning Proportions (Veh) - Greyhound Roundabout - (07:45-08:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.03	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.25	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (08:00-08:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.983	15.730	213.338	317.549	74.717
	Bryn Estyn Rd	6.882	0.000	2.949	5.899	5.899
	Cefn Rd	204.490	3.933	2.949	91.431	193.675
	A534 Holt Rd (SW)	258.562	7.865	54.072	0.983	71.768
	Dean Rd	119.941	18.679	222.186	100.279	9.831

Turning Proportions (Veh) - Greyhound Roundabout - (08:00-08:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.03	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.25	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (08:15-08:30)

	To					
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From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.204	19.265	261.285	388.917	91.510
	Bryn Estyn Rd	8.429	0.000	3.612	7.224	7.224
	Cefn Rd	250.448	4.816	3.612	111.979	237.203
	A534 Holt Rd (SW)	316.672	9.633	66.224	1.204	87.898
	Dean Rd	146.897	22.877	272.121	122.816	12.041

Turning Proportions (Veh) - Greyhound Roundabout - (08:15-08:30)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.03	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.25	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (08:30-08:45)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd

	A534 Holt Rd (NE)	1.204	19.265	261.285	388.917	91.510
	Bryn Estyn Rd	8.429	0.000	3.612	7.224	7.224
	Cefn Rd	250.448	4.816	3.612	111.979	237.203
	A534 Holt Rd (SW)	316.672	9.633	66.224	1.204	87.898
	Dean Rd	146.897	22.877	272.121	122.816	12.041

Turning Proportions (Veh) - Greyhound Roundabout - (08:30-08:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.03	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.25	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (08:45-09:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.983	15.730	213.338	317.549	74.717

	Bryn Estyn Rd	6.882	0.000	2.949	5.899	5.899
	Cefn Rd	204.490	3.933	2.949	91.431	193.675
	A534 Holt Rd (SW)	258.562	7.865	54.072	0.983	71.768
	Dean Rd	119.941	18.679	222.186	100.279	9.831

Turning Proportions (Veh) - Greyhound Roundabout - (08:45-09:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.03	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.25	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (09:00-09:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.823	13.173	178.660	265.932	62.572
	Bryn Estyn Rd	5.763	0.000	2.470	4.940	4.940

	Cefn Rd	171.250	3.293	2.470	76.569	162.194
	A534 Holt Rd (SW)	216.533	6.587	45.283	0.823	60.102
	Dean Rd	100.445	15.643	186.070	83.979	8.233

Turning Proportions (Veh) - Greyhound Roundabout - (09:00-09:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.03	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.25	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (07:45-08:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.647	12.350	380.374	5.763
	St Mellion Cres	52.692	0.000	25.523	23.053
	A534 Holt Rd (SW)	455.296	9.880	0.823	22.230

	Birkdale Rd	42.813	5.763	66.689	0.000
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Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (07:45-08:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.05
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (08:00-08:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.966	14.747	454.203	6.882
	St Mellion Cres	62.920	0.000	30.477	27.527
	A534 Holt Rd (SW)	543.668	11.797	0.983	26.544
	Birkdale Rd	51.122	6.882	79.633	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (08:00-08:15)

	To				
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From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.05
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (08:15-08:30)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	2.408	18.061	556.283	8.429
	St Mellion Cres	77.061	0.000	37.326	33.714
	A534 Holt Rd (SW)	665.854	14.449	1.204	32.510
	Birkdale Rd	62.612	8.429	97.530	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (08:15-08:30)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23

	A534 Holt Rd (SW)	0.93	0.02	0.00	0.05
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (08:30-08:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	2.408	18.061	556.283	8.429
	St Mellion Cres	77.061	0.000	37.326	33.714
	A534 Holt Rd (SW)	665.854	14.449	1.204	32.510
	Birkdale Rd	62.612	8.429	97.530	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (08:30-08:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.05
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (08:45-09:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.966	14.747	454.203	6.882
	St Mellion Cres	62.920	0.000	30.477	27.527
	A534 Holt Rd (SW)	543.668	11.797	0.983	26.544
	Birkdale Rd	51.122	6.882	79.633	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (08:45-09:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.05
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (09:00-09:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.647	12.350	380.374	5.763

	St Mellion Cres	52.692	0.000	25.523	23.053
	A534 Holt Rd (SW)	455.296	9.880	0.823	22.230
	Birkdale Rd	42.813	5.763	66.689	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (09:00-09:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.05
	Birkdale Rd	0.37	0.05	0.58	0.00

Vehicle Mix

Average PCU Per Vehicle - Greyhound Roundabout - (07:45-08:00)

	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
From	A534 Holt Rd (NE)	2.000	1.000	1.069	1.012	1.026
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000

	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (07:45-08:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.9	1.2	2.6
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (08:00-08:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.069	1.012	1.026
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010

	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (08:00-08:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.9	1.2	2.6
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (08:15-08:30)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.069	1.012	1.026
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027

	Dean Rd	1.008	1.000	1.004	1.010	1.000
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Heavy Vehicle Percentages - Greyhound Roundabout - (08:15-08:30)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.9	1.2	2.6
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (08:30-08:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.069	1.012	1.026
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (08:30-08:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.9	1.2	2.6
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (08:45-09:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.069	1.012	1.026
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (08:45-09:00)

	To					
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From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.9	1.2	2.6
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (09:00-09:15)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.069	1.012	1.026
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (09:00-09:15)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd

	A534 Holt Rd (NE)	100.0	0.0	6.9	1.2	2.6
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (07:45-08:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.043	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.042	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (07:45-08:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	4.3	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0

	A534 Holt Rd (SW)	4.2	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (08:00-08:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.043	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.042	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (08:00-08:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.0	0.0	4.3	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.2	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (08:15-08:30)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.043	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.042	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (08:15-08:30)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	4.3	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.2	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (08:30-08:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.043	1.000

	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.042	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (08:30-08:45)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	4.3	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.2	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (08:45-09:00)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.043	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.042	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (08:45-09:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	4.3	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.2	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (09:00-09:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.043	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.042	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (09:00-09:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	4.3	0.0

	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.2	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Results

Results Summary for whole modelled period

Name	Name	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)	Total Queueing Delay (PCU-min)	Average Queueing Delay (s)	Rate Of Queueing Delay (PCU-min/min)	Inclusive Total Queueing Delay (PCU-min)	Inclusive Average Queueing Delay (s)
Greyhound Roundabout	A534 Holt Rd (NE)	0.91	40.70	8.32	E	657.12	985.68	323.35	19.68	3.59	323.41	19.69
Greyhound Roundabout	Bryn Estyn Rd	0.06	9.11	0.07	A	23.08	34.62	4.32	7.49	0.05	4.32	7.49
Greyhound Roundabout	Cefn Rd	0.80	23.77	3.96	C	523.95	785.93	185.31	14.15	2.06	185.35	14.15
Greyhound Roundabout	A534 Holt Rd (SW)	0.64	13.38	1.81	B	413.29	619.93	100.53	9.73	1.12	100.54	9.73
Greyhound Roundabout	Dean Rd	0.65	11.39	1.80	B	483.59	725.38	99.34	8.22	1.10	99.35	8.22
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.38	3.73	0.63	A	507.64	761.46	43.04	3.39	0.48	43.05	3.39

Holt Rd / Birkdale Rd	St Mellion Cres	0.17	4.90	0.20	A	123.43	185.15	13.66	4.43	0.15	13.66	4.43
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.51	5.31	1.09	A	618.39	927.58	70.59	4.57	0.78	70.59	4.57
Holt Rd / Birkdale Rd	Birkdale Rd	0.26	7.34	0.35	A	142.50	213.75	22.43	6.30	0.25	22.43	6.30

Existing Layout - 2025 Baseline, PM Peak

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Roundabout Capacity Model	Description	Include In Report	Use Specific Demand Set(s)	Specific Demand Set(s)	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
Existing Layout	ARCADY		✓				100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period	Time Segment Length (min)	Results For Central	Single Time Segment Only	Locked	Run Automatically	Use Relationship	Relationship
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							Length (min)		Hour Only					
2025 Baseline, PM Peak	2025 Baseline	PM Peak		Varies by Arm	16:45	18:15	90	15			✓	✓	✓	D2*1.0895

Junction Network

Junctions

Junction	Junction	Name	Junction Type	Arm Order	Grade Separated	Large Roundabout	Do Geometric Delay	Junction Delay (s)	Junction LOS
1	1	Greyhound Roundabout	Roundabout	1,2,3,4,5				60.40	F
2	2	Holt Rd / Birkdale Rd	Roundabout	1,2,3,4				5.36	A

Junction Network Options

Driving Side	Lighting
Left	Normal/unknown

Arms

Arms

Name	Name	Arm	Name	Description
Greyhound Roundabout	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	

Greyhound Roundabout	Bryn Estyn Rd	2	Bryn Estyn Rd	
Greyhound Roundabout	Cefn Rd	3	Cefn Rd	
Greyhound Roundabout	A534 Holt Rd (SW)	4	A534 Holt Rd (SW)	
Greyhound Roundabout	Dean Rd	5	Dean Rd	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Holt Rd / Birkdale Rd	St Mellion Cres	2	St Mellion Cres	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3	A534 Holt Rd (SW)	
Holt Rd / Birkdale Rd	Birkdale Rd	4	Birkdale Rd	

Capacity Options

Name	Name	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
Greyhound Roundabout	A534 Holt Rd (NE)	0.00	99999.00		0.00
Greyhound Roundabout	Bryn Estyn Rd	0.00	99999.00		0.00
Greyhound Roundabout	Cefn Rd	0.00	99999.00		0.00
Greyhound Roundabout	A534 Holt Rd (SW)	0.00	99999.00		0.00
Greyhound Roundabout	Dean Rd	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	St Mellion Cres	0.00	99999.00		0.00

Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	Birkdale Rd	0.00	99999.00		0.00

Roundabout Geometry

Name	Name	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
Greyhound Roundabout	A534 Holt Rd (NE)	3.20	6.00	2.40	14.90	35.80	25.50	
Greyhound Roundabout	Bryn Estyn Rd	3.40	4.90	1.30	9.30	35.80	26.00	
Greyhound Roundabout	Cefn Rd	3.40	4.20	3.40	10.60	35.80	30.00	
Greyhound Roundabout	A534 Holt Rd (SW)	3.50	4.70	1.50	9.20	35.80	29.50	
Greyhound Roundabout	Dean Rd	3.50	4.30	3.10	82.50	35.80	11.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	3.50	6.00	18.10	26.90	29.80	13.50	
Holt Rd / Birkdale Rd	St Mellion Cres	3.30	4.60	10.90	14.20	29.80	26.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3.90	5.30	7.30	22.90	29.80	16.00	
Holt Rd / Birkdale Rd	Birkdale Rd	3.60	3.90	0.10	12.40	29.80	25.00	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Name	Name	Enter slope and intercept directly	Entered slope	Entered intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
Greyhound Roundabout	A534 Holt Rd (NE)		(calculated)	(calculated)	0.538	1147.550
Greyhound Roundabout	Bryn Estyn Rd		(calculated)	(calculated)	0.512	1079.294
Greyhound Roundabout	Cefn Rd		(calculated)	(calculated)	0.519	1117.812
Greyhound Roundabout	A534 Holt Rd (SW)		(calculated)	(calculated)	0.511	1097.912
Greyhound Roundabout	Dean Rd		(calculated)	(calculated)	0.603	1314.070
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)		(calculated)	(calculated)	0.679	1696.503
Holt Rd / Birkdale Rd	St Mellion Cres		(calculated)	(calculated)	0.569	1274.934
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)		(calculated)	(calculated)	0.639	1523.697
Holt Rd / Birkdale Rd	Birkdale Rd		(calculated)	(calculated)	0.528	1085.500

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
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	✓	✓	✓	HV Percentages	2.00			✓	✓	✓
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Entry Flows

General Flows Data

Name	Name	Profile Type	Use Turning Counts	Average Demand Flow (Veh/hr)	Flow Scaling Factor (%)
Greyhound Roundabout	A534 Holt Rd (NE)	DIRECT		N/A	100.000
Greyhound Roundabout	Bryn Estyn Rd	DIRECT		N/A	100.000
Greyhound Roundabout	Cefn Rd	DIRECT		N/A	100.000
Greyhound Roundabout	A534 Holt Rd (SW)	DIRECT		N/A	100.000
Greyhound Roundabout	Dean Rd	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	St Mellion Cres	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	Birkdale Rd	DIRECT		N/A	100.000

Turning Proportions

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (16:45-17:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	24.607	219.822	310.048	114.833
	Bryn Estyn Rd	9.843	0.000	4.101	18.045	13.944
	Cefn Rd	125.496	10.663	0.820	69.720	154.204
	A534 Holt Rd (SW)	278.059	9.023	58.237	0.000	77.102
	Dean Rd	77.922	22.967	109.911	49.214	5.742

Turning Proportions (Veh) - Greyhound Roundabout - (16:45-17:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.43
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.29	0.09	0.41	0.19	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (17:00-17:15)

	To					
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From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	29.383	262.489	370.228	137.121
	Bryn Estyn Rd	11.753	0.000	4.897	21.548	16.650
	Cefn Rd	149.854	12.733	0.979	83.252	184.134
	A534 Holt Rd (SW)	332.030	10.774	69.540	0.000	92.067
	Dean Rd	93.047	27.424	131.245	58.766	6.856

Turning Proportions (Veh) - Greyhound Roundabout - (17:00-17:15)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.43
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.29	0.09	0.41	0.19	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (17:15-17:30)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd

	A534 Holt Rd (NE)	0.000	35.987	321.483	453.434	167.939
	Bryn Estyn Rd	14.395	0.000	5.998	26.390	20.393
	Cefn Rd	183.533	15.594	1.200	101.963	225.518
	A534 Holt Rd (SW)	406.651	13.195	85.169	0.000	112.759
	Dean Rd	113.958	33.588	160.741	71.974	8.397

Turning Proportions (Veh) - Greyhound Roundabout - (17:15-17:30)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.43
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.29	0.09	0.41	0.19	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (17:30-17:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	35.987	321.483	453.434	167.939

	Bryn Estyn Rd	14.395	0.000	5.998	26.390	20.393
	Cefn Rd	183.533	15.594	1.200	101.963	225.518
	A534 Holt Rd (SW)	406.651	13.195	85.169	0.000	112.759
	Dean Rd	113.958	33.588	160.741	71.974	8.397

Turning Proportions (Veh) - Greyhound Roundabout - (17:30-17:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.43
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.29	0.09	0.41	0.19	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (17:45-18:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	29.383	262.489	370.228	137.121
	Bryn Estyn Rd	11.753	0.000	4.897	21.548	16.650

	Cefn Rd	149.854	12.733	0.979	83.252	184.134
	A534 Holt Rd (SW)	332.030	10.774	69.540	0.000	92.067
	Dean Rd	93.047	27.424	131.245	58.766	6.856

Turning Proportions (Veh) - Greyhound Roundabout - (17:45-18:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.43
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.29	0.09	0.41	0.19	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (18:00-18:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	24.607	219.822	310.048	114.833
	Bryn Estyn Rd	9.843	0.000	4.101	18.045	13.944
	Cefn Rd	125.496	10.663	0.820	69.720	154.204

	A534 Holt Rd (SW)	278.059	9.023	58.237	0.000	77.102
	Dean Rd	77.922	22.967	109.911	49.214	5.742

Turning Proportions (Veh) - Greyhound Roundabout - (18:00-18:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.43
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.29	0.09	0.41	0.19	0.02

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (16:45-17:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.000	36.090	620.916	35.270
	St Mellion Cres	19.686	0.000	20.506	2.461
	A534 Holt Rd (SW)	374.846	20.506	0.820	53.315
	Birkdale Rd	18.865	6.562	32.809	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (16:45-17:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.83	0.05	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (17:00-17:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.000	43.095	741.435	42.116
	St Mellion Cres	23.507	0.000	24.486	2.938
	A534 Holt Rd (SW)	447.603	24.486	0.979	63.663
	Birkdale Rd	22.527	7.836	39.178	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (17:00-17:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05

	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.83	0.05	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (17:15-17:30)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.000	52.781	908.068	51.581
	St Mellion Cres	28.789	0.000	29.989	3.599
	A534 Holt Rd (SW)	548.200	29.989	1.200	77.972
	Birkdale Rd	27.590	9.597	47.982	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (17:15-17:30)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.83	0.05	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (17:30-17:45)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.000	52.781	908.068	51.581
	St Mellion Cres	28.789	0.000	29.989	3.599
	A534 Holt Rd (SW)	548.200	29.989	1.200	77.972
	Birkdale Rd	27.590	9.597	47.982	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (17:30-17:45)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.83	0.05	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (17:45-18:00)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.000	43.095	741.435	42.116

	St Mellion Cres	23.507	0.000	24.486	2.938
	A534 Holt Rd (SW)	447.603	24.486	0.979	63.663
	Birkdale Rd	22.527	7.836	39.178	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (17:45-18:00)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.83	0.05	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (18:00-18:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.000	36.090	620.916	35.270
	St Mellion Cres	19.686	0.000	20.506	2.461
	A534 Holt Rd (SW)	374.846	20.506	0.820	53.315
	Birkdale Rd	18.865	6.562	32.809	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (18:00-18:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.83	0.05	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Vehicle Mix

Average PCU Per Vehicle - Greyhound Roundabout - (16:45-17:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (16:45-17:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (17:00-17:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (17:00-17:15)

	To
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From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (17:15-17:30)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (17:15-17:30)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd

	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (17:30-17:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (17:30-17:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4

	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (17:45-18:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (17:45-18:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0

	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (18:00-18:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (18:00-18:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0

	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (16:45-17:00)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (16:45-17:00)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (17:00-17:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (17:00-17:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (17:15-17:30)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000

	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (17:15-17:30)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (17:30-17:45)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (17:30-17:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (17:45-18:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (17:45-18:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0

	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (18:00-18:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (18:00-18:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Results

Results Summary for whole modelled period

Name	Name	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)	Total Queueing Delay (PCU-min)	Average Queueing Delay (s)	Rate Of Queueing Delay (PCU-min/min)	Inclusive Total Queueing Delay (PCU-min)	Inclusive Average Queueing Delay (s)
Greyhound Roundabout	A534 Holt Rd (NE)	1.05	131.43	38.40	F	823.66	1235.49	1124.19	54.60	12.49	1124.33	54.60
Greyhound Roundabout	Bryn Estyn Rd	0.15	9.31	0.17	A	55.99	83.98	10.98	7.84	0.12	10.98	7.84
Greyhound Roundabout	Cefn Rd	0.72	17.50	2.51	C	443.97	665.95	132.49	11.94	1.47	132.51	11.94
Greyhound Roundabout	A534 Holt Rd (SW)	0.80	22.76	3.74	C	515.89	773.83	178.34	13.83	1.98	178.37	13.83
Greyhound Roundabout	Dean Rd	0.44	7.36	0.79	A	323.92	485.88	48.59	6.00	0.54	48.60	6.00
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.62	5.90	1.66	A	849.84	1274.76	101.44	4.77	1.13	101.45	4.78
Holt Rd / Birkdale Rd	St Mellion Cres	0.09	5.67	0.10	A	51.99	77.98	6.46	4.97	0.07	6.46	4.97
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.45	4.49	0.82	A	551.97	827.96	54.94	3.98	0.61	54.95	3.98
Holt Rd / Birkdale Rd	Birkdale Rd	0.11	5.49	0.13	A	72.98	109.47	9.18	5.03	0.10	9.18	5.03

Existing Layout - 2025 Baseline + Dev, AM Peak

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Roundabout Capacity Model	Description	Include In Report	Use Specific Demand Set(s)	Specific Demand Set(s)	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
Existing Layout	ARCADY		✓				100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Results For Central Hour Only	Single Time Segment Only	Locked	Run Automatically	Use Relationship	Relationship
2025 Baseline + Dev, AM Peak	2025 Baseline + Dev	AM Peak		Varies by Arm	07:45	09:15	90	15			✓	✓	✓	D7+D11

Junction Network

Junctions

Junction	Junction	Name	Junction Type	Arm Order	Grade Separated	Large Roundabout	Do Geometric Delay	Junction Delay (s)	Junction LOS
1	1	Greyhound Roundabout	Roundabout	1,2,3,4,5				26.14	D
2	2	Holt Rd / Birkdale Rd	Roundabout	1,2,3,4				5.01	A

Junction Network Options

Driving Side	Lighting
Left	Normal/unknown

Arms

Arms

Name	Name	Arm	Name	Description
Greyhound Roundabout	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Greyhound Roundabout	Bryn Estyn Rd	2	Bryn Estyn Rd	
Greyhound Roundabout	Cefn Rd	3	Cefn Rd	
Greyhound Roundabout	A534 Holt Rd (SW)	4	A534 Holt Rd (SW)	
Greyhound Roundabout	Dean Rd	5	Dean Rd	

Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Holt Rd / Birkdale Rd	St Mellion Cres	2	St Mellion Cres	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3	A534 Holt Rd (SW)	
Holt Rd / Birkdale Rd	Birkdale Rd	4	Birkdale Rd	

Capacity Options

Name	Name	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
Greyhound Roundabout	A534 Holt Rd (NE)	0.00	99999.00		0.00
Greyhound Roundabout	Bryn Estyn Rd	0.00	99999.00		0.00
Greyhound Roundabout	Cefn Rd	0.00	99999.00		0.00
Greyhound Roundabout	A534 Holt Rd (SW)	0.00	99999.00		0.00
Greyhound Roundabout	Dean Rd	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	St Mellion Cres	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	Birkdale Rd	0.00	99999.00		0.00

Roundabout Geometry

Name	Name	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
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Greyhound Roundabout	A534 Holt Rd (NE)	3.20	6.00	2.40	14.90	35.80	25.50	
Greyhound Roundabout	Bryn Estyn Rd	3.40	4.90	1.30	9.30	35.80	26.00	
Greyhound Roundabout	Cefn Rd	3.40	4.20	3.40	10.60	35.80	30.00	
Greyhound Roundabout	A534 Holt Rd (SW)	3.50	4.70	1.50	9.20	35.80	29.50	
Greyhound Roundabout	Dean Rd	3.50	4.30	3.10	82.50	35.80	11.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	3.50	6.00	18.10	26.90	29.80	13.50	
Holt Rd / Birkdale Rd	St Mellion Cres	3.30	4.60	10.90	14.20	29.80	26.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3.90	5.30	7.30	22.90	29.80	16.00	
Holt Rd / Birkdale Rd	Birkdale Rd	3.60	3.90	0.10	12.40	29.80	25.00	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Name	Name	Enter slope and intercept directly	Entered slope	Entered intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
Greyhound Roundabout	A534 Holt Rd (NE)		(calculated)	(calculated)	0.538	1147.550
Greyhound Roundabout	Bryn Estyn Rd		(calculated)	(calculated)	0.512	1079.294

Greyhound Roundabout	Cefn Rd		(calculated)	(calculated)	0.519	1117.812
Greyhound Roundabout	A534 Holt Rd (SW)		(calculated)	(calculated)	0.511	1097.912
Greyhound Roundabout	Dean Rd		(calculated)	(calculated)	0.603	1314.070
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)		(calculated)	(calculated)	0.679	1696.503
Holt Rd / Birkdale Rd	St Mellion Cres		(calculated)	(calculated)	0.569	1274.934
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)		(calculated)	(calculated)	0.639	1523.697
Holt Rd / Birkdale Rd	Birkdale Rd		(calculated)	(calculated)	0.528	1085.500

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
	✓	✓	✓	HV Percentages	2.00			✓	✓	✓

Entry Flows

General Flows Data

Name	Name	Profile Type	Use Turning Counts	Average Demand Flow (Veh/hr)	Flow Scaling Factor (%)
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Greyhound Roundabout	A534 Holt Rd (NE)	DIRECT		N/A	100.000
Greyhound Roundabout	Bryn Estyn Rd	DIRECT		N/A	100.000
Greyhound Roundabout	Cefn Rd	DIRECT		N/A	100.000
Greyhound Roundabout	A534 Holt Rd (SW)	DIRECT		N/A	100.000
Greyhound Roundabout	Dean Rd	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	St Mellion Cres	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	Birkdale Rd	DIRECT		N/A	100.000

Turning Proportions

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (07:45-08:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.823	13.173	180.919	272.708	64.078
	Bryn Estyn Rd	5.763	0.000	2.470	4.940	4.940
	Cefn Rd	172.250	3.293	2.470	76.569	162.194

	A534 Holt Rd (SW)	219.533	6.587	45.283	0.823	60.102
	Dean Rd	101.445	15.643	186.070	83.979	8.233

Turning Proportions (Veh) - Greyhound Roundabout - (07:45-08:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.02	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.26	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (08:00-08:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.983	15.730	216.035	325.640	76.515
	Bryn Estyn Rd	6.882	0.000	2.949	5.899	5.899
	Cefn Rd	205.490	3.933	2.949	91.431	193.675
	A534 Holt Rd (SW)	261.562	7.865	54.072	0.983	71.768

	Dean Rd	120.941	18.679	222.186	100.279	9.831
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Turning Proportions (Veh) - Greyhound Roundabout - (08:00-08:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.02	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.26	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (08:15-08:30)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.204	19.265	264.588	398.826	93.712
	Bryn Estyn Rd	8.429	0.000	3.612	7.224	7.224
	Cefn Rd	251.448	4.816	3.612	111.979	237.203
	A534 Holt Rd (SW)	319.672	9.633	66.224	1.204	87.898
	Dean Rd	147.897	22.877	272.121	122.816	12.041

Turning Proportions (Veh) - Greyhound Roundabout - (08:15-08:30)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.02	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.26	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (08:30-08:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.204	19.265	264.588	398.826	93.712
	Bryn Estyn Rd	8.429	0.000	3.612	7.224	7.224
	Cefn Rd	251.448	4.816	3.612	111.979	237.203
	A534 Holt Rd (SW)	319.672	9.633	66.224	1.204	87.898
	Dean Rd	147.897	22.877	272.121	122.816	12.041

Turning Proportions (Veh) - Greyhound Roundabout - (08:30-08:45)

	To					
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From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.02	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.26	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (08:45-09:00)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.983	15.730	216.035	325.640	76.515
	Bryn Estyn Rd	6.882	0.000	2.949	5.899	5.899
	Cefn Rd	205.490	3.933	2.949	91.431	193.675
	A534 Holt Rd (SW)	261.562	7.865	54.072	0.983	71.768
	Dean Rd	120.941	18.679	222.186	100.279	9.831

Turning Proportions (Veh) - Greyhound Roundabout - (08:45-09:00)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd

	A534 Holt Rd (NE)	0.00	0.02	0.34	0.51	0.12
	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.26	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (09:00-09:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.823	13.173	180.919	272.708	64.078
	Bryn Estyn Rd	5.763	0.000	2.470	4.940	4.940
	Cefn Rd	172.250	3.293	2.470	76.569	162.194
	A534 Holt Rd (SW)	219.533	6.587	45.283	0.823	60.102
	Dean Rd	101.445	15.643	186.070	83.979	8.233

Turning Proportions (Veh) - Greyhound Roundabout - (09:00-09:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.02	0.34	0.51	0.12

	Bryn Estyn Rd	0.32	0.00	0.14	0.27	0.27
	Cefn Rd	0.41	0.01	0.01	0.18	0.39
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.26	0.04	0.47	0.21	0.02

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (07:45-08:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.647	12.350	385.644	5.763
	St Mellion Cres	52.692	0.000	25.523	23.053
	A534 Holt Rd (SW)	469.600	9.880	0.823	22.230
	Birkdale Rd	42.813	5.763	66.689	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (07:45-08:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.04

	Birkdale Rd	0.37	0.05	0.58	0.00
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Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (08:00-08:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.966	14.747	460.496	6.882
	St Mellion Cres	62.920	0.000	30.477	27.527
	A534 Holt Rd (SW)	560.748	11.797	0.983	26.544
	Birkdale Rd	51.122	6.882	79.633	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (08:00-08:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.04
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (08:15-08:30)

	To				
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From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	2.408	18.061	563.990	8.429
	St Mellion Cres	77.061	0.000	37.326	33.714
	A534 Holt Rd (SW)	686.773	14.449	1.204	32.510
	Birkdale Rd	62.612	8.429	97.530	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (08:15-08:30)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.04
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (08:30-08:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	2.408	18.061	563.990	8.429
	St Mellion Cres	77.061	0.000	37.326	33.714

	A534 Holt Rd (SW)	686.773	14.449	1.204	32.510
	Birkdale Rd	62.612	8.429	97.530	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (08:30-08:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.04
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (08:45-09:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.966	14.747	460.496	6.882
	St Mellion Cres	62.920	0.000	30.477	27.527
	A534 Holt Rd (SW)	560.748	11.797	0.983	26.544
	Birkdale Rd	51.122	6.882	79.633	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (08:45-09:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01
	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.04
	Birkdale Rd	0.37	0.05	0.58	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (09:00-09:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.647	12.350	385.644	5.763
	St Mellion Cres	52.692	0.000	25.523	23.053
	A534 Holt Rd (SW)	469.600	9.880	0.823	22.230
	Birkdale Rd	42.813	5.763	66.689	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (09:00-09:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.03	0.95	0.01

	St Mellion Cres	0.52	0.00	0.25	0.23
	A534 Holt Rd (SW)	0.93	0.02	0.00	0.04
	Birkdale Rd	0.37	0.05	0.58	0.00

Vehicle Mix

Average PCU Per Vehicle - Greyhound Roundabout - (07:45-08:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.068	1.012	1.025
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (07:45-08:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.8	1.2	2.5

	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (08:00-08:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.068	1.012	1.025
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (08:00-08:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.8	1.2	2.5
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0

	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (08:15-08:30)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.068	1.012	1.025
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (08:15-08:30)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.8	1.2	2.5
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0

	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (08:30-08:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.068	1.012	1.025
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (08:30-08:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.8	1.2	2.5
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7

	Dean Rd	0.8	0.0	0.4	1.0	0.0
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Average PCU Per Vehicle - Greyhound Roundabout - (08:45-09:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.068	1.012	1.025
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (08:45-09:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.8	1.2	2.5
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (09:00-09:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	2.000	1.000	1.068	1.012	1.025
	Bryn Estyn Rd	1.000	1.000	1.333	1.000	1.000
	Cefn Rd	1.063	1.000	1.000	1.022	1.010
	A534 Holt Rd (SW)	1.030	1.000	1.036	1.000	1.027
	Dean Rd	1.008	1.000	1.004	1.010	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (09:00-09:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	100.0	0.0	6.8	1.2	2.5
	Bryn Estyn Rd	0.0	0.0	33.3	0.0	0.0
	Cefn Rd	6.3	0.0	0.0	2.2	1.0
	A534 Holt Rd (SW)	3.0	0.0	3.6	0.0	2.7
	Dean Rd	0.8	0.0	0.4	1.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (07:45-08:00)

	To
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From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.042	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.041	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (07:45-08:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	4.2	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.1	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (08:00-08:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.042	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000

	A534 Holt Rd (SW)	1.041	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (08:00-08:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	4.2	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.1	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (08:15-08:30)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.042	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.041	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (08:15-08:30)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	4.2	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.1	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (08:30-08:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.042	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.041	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (08:30-08:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	4.2	0.0

	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.1	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (08:45-09:00)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.042	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.041	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (08:45-09:00)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	4.2	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.1	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (09:00-09:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.042	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.041	1.000	1.000	1.000
	Birkdale Rd	1.000	1.286	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (09:00-09:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	4.2	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	4.1	0.0	0.0	0.0
	Birkdale Rd	0.0	28.6	0.0	0.0

Results

Results Summary for whole modelled period

Name	Name	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)	Total Queueing Delay (PCU-min)	Average Queueing Delay (s)	Rate Of Queueing Delay (PCU-min/min)	Inclusive Total Queueing Delay (PCU-min)	Inclusive Average Queueing Delay (s)
Greyhound Roundabout	A534 Holt Rd (NE)	0.93	46.40	9.67	E	669.97	1004.95	359.06	21.44	3.99	359.13	21.44
Greyhound Roundabout	Bryn Estyn Rd	0.06	9.25	0.07	A	23.08	34.62	4.38	7.59	0.05	4.38	7.59
Greyhound Roundabout	Cefn Rd	0.81	24.60	4.09	C	523.92	785.88	189.46	14.47	2.11	189.50	14.47
Greyhound Roundabout	A534 Holt Rd (SW)	0.64	13.42	1.81	B	413.20	619.80	100.74	9.75	1.12	100.75	9.75
Greyhound Roundabout	Dean Rd	0.65	11.41	1.81	B	483.58	725.38	99.47	8.23	1.11	99.49	8.23
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.38	3.76	0.64	A	514.06	771.09	43.83	3.41	0.49	43.84	3.41
Holt Rd / Birkdale Rd	St Mellion Cres	0.17	4.93	0.20	A	123.43	185.15	13.72	4.45	0.15	13.72	4.45
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.53	5.47	1.15	A	635.82	953.73	74.18	4.67	0.82	74.19	4.67
Holt Rd / Birkdale Rd	Birkdale Rd	0.26	7.50	0.35	A	142.50	213.75	22.82	6.40	0.25	22.82	6.41

Existing Layout - 2025 Baseline + Dev, PM Peak

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Roundabout Capacity Model	Description	Include In Report	Use Specific Demand Set(s)	Specific Demand Set(s)	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
Existing Layout	ARCADY		✓				100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Results For Central Hour Only	Single Time Segment Only	Locked	Run Automatically	Use Relationship	Relationship
2025 Baseline + Dev, PM Peak	2025 Baseline + Dev	PM Peak		Varies by Arm	16:45	18:15	90	15			✓	✓	✓	D8+D12

Junction Network

Junctions

Junction	Junction	Name	Junction Type	Arm Order	Grade Separated	Large Roundabout	Do Geometric Delay	Junction Delay (s)	Junction LOS
1	1	Greyhound Roundabout	Roundabout	1,2,3,4,5				63.23	F

2	2	Holt Rd / Birkdale Rd	Roundabout	1,2,3,4				5.50	A
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Junction Network Options

Driving Side	Lighting
Left	Normal/unknown

Arms

Arms

Name	Name	Arm	Name	Description
Greyhound Roundabout	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Greyhound Roundabout	Bryn Estyn Rd	2	Bryn Estyn Rd	
Greyhound Roundabout	Cefn Rd	3	Cefn Rd	
Greyhound Roundabout	A534 Holt Rd (SW)	4	A534 Holt Rd (SW)	
Greyhound Roundabout	Dean Rd	5	Dean Rd	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	1	A534 Holt Rd (NE)	
Holt Rd / Birkdale Rd	St Mellion Cres	2	St Mellion Cres	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3	A534 Holt Rd (SW)	
Holt Rd / Birkdale Rd	Birkdale Rd	4	Birkdale Rd	

Capacity Options

Name	Name	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
Greyhound Roundabout	A534 Holt Rd (NE)	0.00	99999.00		0.00
Greyhound Roundabout	Bryn Estyn Rd	0.00	99999.00		0.00
Greyhound Roundabout	Cefn Rd	0.00	99999.00		0.00
Greyhound Roundabout	A534 Holt Rd (SW)	0.00	99999.00		0.00
Greyhound Roundabout	Dean Rd	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	St Mellion Cres	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.00	99999.00		0.00
Holt Rd / Birkdale Rd	Birkdale Rd	0.00	99999.00		0.00

Roundabout Geometry

Name	Name	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
Greyhound Roundabout	A534 Holt Rd (NE)	3.20	6.00	2.40	14.90	35.80	25.50	
Greyhound Roundabout	Bryn Estyn Rd	3.40	4.90	1.30	9.30	35.80	26.00	
Greyhound Roundabout	Cefn Rd	3.40	4.20	3.40	10.60	35.80	30.00	

Greyhound Roundabout	A534 Holt Rd (SW)	3.50	4.70	1.50	9.20	35.80	29.50	
Greyhound Roundabout	Dean Rd	3.50	4.30	3.10	82.50	35.80	11.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	3.50	6.00	18.10	26.90	29.80	13.50	
Holt Rd / Birkdale Rd	St Mellion Cres	3.30	4.60	10.90	14.20	29.80	26.50	
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	3.90	5.30	7.30	22.90	29.80	16.00	
Holt Rd / Birkdale Rd	Birkdale Rd	3.60	3.90	0.10	12.40	29.80	25.00	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Name	Name	Enter slope and intercept directly	Entered slope	Entered intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
Greyhound Roundabout	A534 Holt Rd (NE)		(calculated)	(calculated)	0.538	1147.550
Greyhound Roundabout	Bryn Estyn Rd		(calculated)	(calculated)	0.512	1079.294
Greyhound Roundabout	Cefn Rd		(calculated)	(calculated)	0.519	1117.812
Greyhound Roundabout	A534 Holt Rd (SW)		(calculated)	(calculated)	0.511	1097.912
Greyhound Roundabout	Dean Rd		(calculated)	(calculated)	0.603	1314.070
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)		(calculated)	(calculated)	0.679	1696.503

Holt Rd / Birkdale Rd	St Mellion Cres		(calculated)	(calculated)	0.569	1274.934
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)		(calculated)	(calculated)	0.639	1523.697
Holt Rd / Birkdale Rd	Birkdale Rd		(calculated)	(calculated)	0.528	1085.500

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
	✓	✓	✓	HV Percentages	2.00			✓	✓	✓

Entry Flows

General Flows Data

Name	Name	Profile Type	Use Turning Counts	Average Demand Flow (Veh/hr)	Flow Scaling Factor (%)
Greyhound Roundabout	A534 Holt Rd (NE)	DIRECT		N/A	100.000
Greyhound Roundabout	Bryn Estyn Rd	DIRECT		N/A	100.000
Greyhound Roundabout	Cefn Rd	DIRECT		N/A	100.000
Greyhound Roundabout	A534 Holt Rd (SW)	DIRECT		N/A	100.000

Greyhound Roundabout	Dean Rd	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	St Mellion Cres	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	DIRECT		N/A	100.000
Holt Rd / Birkdale Rd	Birkdale Rd	DIRECT		N/A	100.000

Turning Proportions

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (16:45-17:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	24.607	220.575	313.059	115.585
	Bryn Estyn Rd	9.843	0.000	4.101	18.045	13.944
	Cefn Rd	127.496	10.663	0.820	69.720	154.204
	A534 Holt Rd (SW)	284.082	9.023	58.237	0.000	77.102
	Dean Rd	79.922	22.967	109.911	49.214	5.742

Turning Proportions (Veh) - Greyhound Roundabout - (16:45-17:00)

	To
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From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.42
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.30	0.09	0.41	0.18	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (17:00-17:15)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	29.383	263.388	373.824	138.020
	Bryn Estyn Rd	11.753	0.000	4.897	21.548	16.650
	Cefn Rd	151.854	12.733	0.979	83.252	184.134
	A534 Holt Rd (SW)	339.221	10.774	69.540	0.000	92.067
	Dean Rd	95.047	27.424	131.245	58.766	6.856

Turning Proportions (Veh) - Greyhound Roundabout - (17:00-17:15)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd

	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.43
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.30	0.09	0.41	0.18	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (17:15-17:30)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	35.987	322.584	457.838	169.040
	Bryn Estyn Rd	14.395	0.000	5.998	26.390	20.393
	Cefn Rd	185.533	15.594	1.200	101.963	225.518
	A534 Holt Rd (SW)	415.460	13.195	85.169	0.000	112.759
	Dean Rd	115.958	33.588	160.741	71.974	8.397

Turning Proportions (Veh) - Greyhound Roundabout - (17:15-17:30)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17

	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.43
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.30	0.09	0.41	0.18	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (17:30-17:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	35.987	322.584	457.838	169.040
	Bryn Estyn Rd	14.395	0.000	5.998	26.390	20.393
	Cefn Rd	185.533	15.594	1.200	101.963	225.518
	A534 Holt Rd (SW)	415.460	13.195	85.169	0.000	112.759
	Dean Rd	115.958	33.588	160.741	71.974	8.397

Turning Proportions (Veh) - Greyhound Roundabout - (17:30-17:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30

	Cefn Rd	0.35	0.03	0.00	0.19	0.43
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.30	0.09	0.41	0.18	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (17:45-18:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	29.383	263.388	373.824	138.020
	Bryn Estyn Rd	11.753	0.000	4.897	21.548	16.650
	Cefn Rd	151.854	12.733	0.979	83.252	184.134
	A534 Holt Rd (SW)	339.221	10.774	69.540	0.000	92.067
	Dean Rd	95.047	27.424	131.245	58.766	6.856

Turning Proportions (Veh) - Greyhound Roundabout - (17:45-18:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.43

	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18
	Dean Rd	0.30	0.09	0.41	0.18	0.02

Turning Counts / Proportions (Veh/hr) - Greyhound Roundabout - (18:00-18:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.000	24.607	220.575	313.059	115.585
	Bryn Estyn Rd	9.843	0.000	4.101	18.045	13.944
	Cefn Rd	127.496	10.663	0.820	69.720	154.204
	A534 Holt Rd (SW)	284.082	9.023	58.237	0.000	77.102
	Dean Rd	79.922	22.967	109.911	49.214	5.742

Turning Proportions (Veh) - Greyhound Roundabout - (18:00-18:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.00	0.04	0.33	0.46	0.17
	Bryn Estyn Rd	0.21	0.00	0.09	0.39	0.30
	Cefn Rd	0.35	0.03	0.00	0.19	0.42
	A534 Holt Rd (SW)	0.66	0.02	0.14	0.00	0.18

	Dean Rd	0.30	0.09	0.41	0.18	0.02
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Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (16:45-17:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.000	36.090	634.468	35.270
	St Mellion Cres	19.686	0.000	20.506	2.461
	A534 Holt Rd (SW)	382.375	20.506	0.820	53.315
	Birkdale Rd	18.865	6.562	32.809	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (16:45-17:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.84	0.04	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (17:00-17:15)

	To				
--	----	--	--	--	--

From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.000	43.095	757.616	42.116
	St Mellion Cres	23.507	0.000	24.486	2.938
	A534 Holt Rd (SW)	456.593	24.486	0.979	63.663
	Birkdale Rd	22.527	7.836	39.178	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (17:00-17:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.84	0.04	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (17:15-17:30)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.000	52.781	927.887	51.581
	St Mellion Cres	28.789	0.000	29.989	3.599

	A534 Holt Rd (SW)	559.210	29.989	1.200	77.972
	Birkdale Rd	27.590	9.597	47.982	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (17:15-17:30)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.84	0.04	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (17:30-17:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.000	52.781	927.887	51.581
	St Mellion Cres	28.789	0.000	29.989	3.599
	A534 Holt Rd (SW)	559.210	29.989	1.200	77.972
	Birkdale Rd	27.590	9.597	47.982	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (17:30-17:45)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.84	0.04	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (17:45-18:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.000	43.095	757.616	42.116
	St Mellion Cres	23.507	0.000	24.486	2.938
	A534 Holt Rd (SW)	456.593	24.486	0.979	63.663
	Birkdale Rd	22.527	7.836	39.178	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (17:45-18:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05

	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.84	0.04	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Turning Counts / Proportions (Veh/hr) - Holt Rd / Birkdale Rd - (18:00-18:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.000	36.090	634.468	35.270
	St Mellion Cres	19.686	0.000	20.506	2.461
	A534 Holt Rd (SW)	382.375	20.506	0.820	53.315
	Birkdale Rd	18.865	6.562	32.809	0.000

Turning Proportions (Veh) - Holt Rd / Birkdale Rd - (18:00-18:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.00	0.05	0.90	0.05
	St Mellion Cres	0.46	0.00	0.48	0.06
	A534 Holt Rd (SW)	0.84	0.04	0.00	0.12
	Birkdale Rd	0.32	0.11	0.56	0.00

Vehicle Mix

Average PCU Per Vehicle - Greyhound Roundabout - (16:45-17:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (16:45-17:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (17:00-17:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (17:00-17:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (17:15-17:30)

	To					
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From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (17:15-17:30)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (17:30-17:45)

From	To					
		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd

	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (17:30-17:45)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (17:45-18:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014

	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000
	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (17:45-18:00)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Greyhound Roundabout - (18:00-18:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	1.000	1.000	1.015	1.005	1.014
	Bryn Estyn Rd	1.000	1.000	1.000	1.000	1.000

	Cefn Rd	1.020	1.000	1.000	1.012	1.000
	A534 Holt Rd (SW)	1.003	1.000	1.000	1.000	1.000
	Dean Rd	1.000	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Greyhound Roundabout - (18:00-18:15)

	To					
From		A534 Holt Rd (NE)	Bryn Estyn Rd	Cefn Rd	A534 Holt Rd (SW)	Dean Rd
	A534 Holt Rd (NE)	0.0	0.0	1.5	0.5	1.4
	Bryn Estyn Rd	0.0	0.0	0.0	0.0	0.0
	Cefn Rd	2.0	0.0	0.0	1.2	0.0
	A534 Holt Rd (SW)	0.3	0.0	0.0	0.0	0.0
	Dean Rd	0.0	0.0	0.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (16:45-17:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000

	Birkdale Rd	1.000	1.250	1.000	1.000
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Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (16:45-17:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (17:00-17:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (17:00-17:15)

	To				
--	-----------	--	--	--	--

From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (17:15-17:30)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (17:15-17:30)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0

	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (17:30-17:45)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (17:30-17:45)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (17:45-18:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000
	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (17:45-18:00)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Average PCU Per Vehicle - Holt Rd / Birkdale Rd - (18:00-18:15)

	To				
From		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
	A534 Holt Rd (NE)	1.000	1.000	1.008	1.000

	St Mellion Cres	1.000	1.000	1.000	1.000
	A534 Holt Rd (SW)	1.009	1.000	1.000	1.000
	Birkdale Rd	1.000	1.250	1.000	1.000

Heavy Vehicle Percentages - Holt Rd / Birkdale Rd - (18:00-18:15)

	To				
		A534 Holt Rd (NE)	St Mellion Cres	A534 Holt Rd (SW)	Birkdale Rd
From	A534 Holt Rd (NE)	0.0	0.0	0.8	0.0
	St Mellion Cres	0.0	0.0	0.0	0.0
	A534 Holt Rd (SW)	0.9	0.0	0.0	0.0
	Birkdale Rd	0.0	25.0	0.0	0.0

Results

Results Summary for whole modelled period

Name	Name	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)	Total Queueing Delay (PCU-min)	Average Queueing Delay (s)	Rate Of Queueing Delay (PCU-min/min)	Inclusive Total Queueing Delay (PCU-min)	Inclusive Average Queueing Delay (s)
Greyhound Roundabout	A534 Holt Rd (NE)	1.06	137.79	40.74	F	829.16	1243.75	1200.61	57.92	13.34	1200.75	57.93

Greyhound Roundabout	Bryn Estyn Rd	0.15	9.32	0.17	A	55.99	83.98	11.03	7.88	0.12	11.03	7.88
Greyhound Roundabout	Cefn Rd	0.72	17.59	2.52	C	443.95	665.92	133.35	12.02	1.48	133.38	12.02
Greyhound Roundabout	A534 Holt Rd (SW)	0.81	24.08	4.01	C	523.23	784.84	187.63	14.34	2.08	187.67	14.35
Greyhound Roundabout	Dean Rd	0.45	7.45	0.80	A	323.92	485.88	49.05	6.06	0.54	49.05	6.06
Holt Rd / Birkdale Rd	A534 Holt Rd (NE)	0.64	6.09	1.74	A	866.36	1299.53	105.92	4.89	1.18	105.93	4.89
Holt Rd / Birkdale Rd	St Mellion Cres	0.09	5.77	0.10	A	51.99	77.98	6.55	5.04	0.07	6.55	5.04
Holt Rd / Birkdale Rd	A534 Holt Rd (SW)	0.46	4.55	0.85	A	561.15	841.72	56.45	4.02	0.63	56.45	4.02
Holt Rd / Birkdale Rd	Birkdale Rd	0.12	5.54	0.13	A	72.98	109.47	9.24	5.07	0.10	9.24	5.07

Appendix F

PICADY Reports

Junctions 9							
PICADY 9 - Priority Intersection Module							
Version: 9.0.2.5947							
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Filename: HoltRdAccess_140618.j9

Path: Z:\Data\2600-2699\2627 Wrexham Glyndwr University\Data\Junction Assessment

Report generation date: 18/06/2018 12:13:23

- »Proposed Layout - 2020 Baseline + Dev, AM Peak
- »Proposed Layout - 2020 Baseline + Dev, PM Peak
- »Proposed Layout - 2025 Baseline + Dev, AM Peak
- »Proposed Layout - 2025 Baseline + Dev, PM Peak

Summary of junction performance

	AM Peak			PM Peak		
	Queue (PCU)	Delay (s)	RFC	Queue (PCU)	Delay (s)	RFC
Proposed Layout - 2020 Baseline + Dev						
Stream B-AC	0.1	10.70	0.10	0.1	12.65	0.06
Stream C-AB	0.0	5.01	0.02	0.2	3.97	0.08
Proposed Layout - 2025 Baseline + Dev						
Stream B-AC	0.1	11.06	0.10	0.1	13.41	0.07
Stream C-AB	0.0	5.00	0.02	0.2	3.90	0.09

There are warnings associated with one or more model runs - see the 'Data Errors and Warnings' tables for each Analysis or Demand Set.

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle.

File summary

File Description

Title	Wrexham Glyndwr University
Location	Holt Rd
Site number	
Date	14/06/2018
Version	1
Status	
Identifier	
Client	Wrexham Glyndwr University
Jobnumber	2627
Enumerator	Mark Lever
Description	

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	PCU	perHour	s	-Min	perMin

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75				0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Description	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Locked	Run automatically	Relationship type	Relationship
D1	2018 Baseline	AM Peak	Based on ATC counts 26/04/18	ONE HOUR	07:45	09:15	15				
D2	2018 Baseline	PM Peak	Based on ATC counts 26/04/18	ONE HOUR	16:45	18:15	15				
D3	2020 Baseline	AM Peak		ONE HOUR	07:45	09:15	15			Simple	D1*1.0335
D4	2020 Baseline	PM Peak		ONE HOUR	16:45	18:15	15			Simple	D2*1.0316
D5	2020 Baseline + Dev	AM Peak		ONE HOUR	07:45	09:15	15	✓	✓	Simple	D3+D11
D6	2020 Baseline + Dev	PM Peak		ONE HOUR	16:45	18:15	15	✓	✓	Simple	D4+D12
D7	2025 Baseline	AM Peak		ONE HOUR	07:45	09:15	15			Simple	D1*1.0936
D8	2025 Baseline	PM Peak		ONE HOUR	16:45	18:15	15			Simple	D2*1.0895
D9	2025 Baseline + Dev	AM Peak		ONE HOUR	07:45	09:15	15	✓	✓	Simple	D7+D11
D10	2025 Baseline + Dev	PM Peak		ONE HOUR	16:45	18:15	15	✓	✓	Simple	D8+D12
D11	Dev	AM Peak		ONE HOUR	07:45	09:15	15				
D12	Dev	PM Peak		ONE HOUR	16:45	18:15	15				

Analysis Set Details

ID	Name	Description	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	Proposed Layout	ITP DWG-2627-101	✓	100.000	100.000

Proposed Layout - 2020 Baseline + Dev, AM Peak

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Demand Set Relationship	D5 - 2020 Baseline + Dev, AM Peak [Locked]	Demand Set relationships are chained. This may slow down the file.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.41	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Holt Rd (W)		Major
B	Site Access		Minor
C	Holt Rd (E)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - Holt Rd (E)	7.20			200.0	✓	0.00

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B - Site Access	One lane	2.75	20	18

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	481	0.083	0.210	0.132	0.300
1	B-C	619	0.090	0.227	-	-
1	C-B	690	0.253	0.253	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Locked	Run automatically	Relationship type	Relationship
D5	2020 Baseline + Dev	AM Peak	ONE HOUR	07:45	09:15	15	✓	✓	Simple	D3+D11

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Holt Rd (W)		ONE HOUR	✓	544	100.000
B - Site Access		ONE HOUR	✓	33	100.000
C - Holt Rd (E)		ONE HOUR	✓	340	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		A - Holt Rd (W)	B - Site Access	C - Holt Rd (E)
From	A - Holt Rd (W)	0	5	539
	B - Site Access	14	0	19
	C - Holt Rd (E)	333	7	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A - Holt Rd (W)	B - Site Access	C - Holt Rd (E)
From	A - Holt Rd (W)	0	0	5
	B - Site Access	0	0	0
	C - Holt Rd (E)	24	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.10	10.70	0.1	B	30	45
C-AB	0.02	5.01	0.0	A	12	18
C-A					372	557
A-B					5	7
A-C					520	780

Proposed Layout - 2020 Baseline + Dev, PM Peak

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Demand Set Relationship	D5 - 2020 Baseline + Dev, AM Peak [Locked]	Demand Set relationships are chained. This may slow down the file.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.31	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Locked	Run automatically	Relationship type	Relationship
D6	2020 Baseline + Dev	PM Peak	ONE HOUR	16:45	18:15	15	✓	✓	Simple	D4+D12

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Holt Rd (W)		ONE HOUR	✓	618	100.000
B - Site Access		ONE HOUR	✓	17	100.000
C - Holt Rd (E)		ONE HOUR	✓	781	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
From		A - Holt Rd (W)	B - Site Access	C - Holt Rd (E)
	A - Holt Rd (W)	0	13	605
	B - Site Access	7	0	10
	C - Holt Rd (E)	763	18	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
From		A - Holt Rd (W)	B - Site Access	C - Holt Rd (E)
	A - Holt Rd (W)	0	0	7
	B - Site Access	0	0	0
	C - Holt Rd (E)	7	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.06	12.65	0.1	B	16	23
C-AB	0.08	3.97	0.2	A	60	90
C-A					706	1059
A-B					12	18
A-C					595	892

Proposed Layout - 2025 Baseline + Dev, AM Peak

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Demand Set Relationship	D5 - 2020 Baseline + Dev, AM Peak [Locked]	Demand Set relationships are chained. This may slow down the file.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.40	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Locked	Run automatically	Relationship type	Relationship
D9	2025 Baseline + Dev	AM Peak	ONE HOUR	07:45	09:15	15	✓	✓	Simple	D7+D11

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Holt Rd (W)		ONE HOUR	✓	576	100.000
B - Site Access		ONE HOUR	✓	33	100.000
C - Holt Rd (E)		ONE HOUR	✓	359	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
From		A - Holt Rd (W)	B - Site Access	C - Holt Rd (E)
	A - Holt Rd (W)	0	5	571
	B - Site Access	14	0	19
	C - Holt Rd (E)	352	7	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
From		A - Holt Rd (W)	B - Site Access	C - Holt Rd (E)
	A - Holt Rd (W)	0	0	5
	B - Site Access	0	0	0
	C - Holt Rd (E)	24	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.10	11.06	0.1	B	30	45
C-AB	0.02	5.00	0.0	A	13	19
C-A					393	590
A-B					5	7
A-C					550	825

Proposed Layout - 2025 Baseline + Dev, PM Peak

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Demand Set Relationship	D5 - 2020 Baseline + Dev, AM Peak [Locked]	Demand Set relationships are chained. This may slow down the file.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.32	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Locked	Run automatically	Relationship type	Relationship
D10	2025 Baseline + Dev	PM Peak	ONE HOUR	16:45	18:15	15	✓	✓	Simple	D8+D12

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Holt Rd (W)		ONE HOUR	✓	651	100.000
B - Site Access		ONE HOUR	✓	17	100.000
C - Holt Rd (E)		ONE HOUR	✓	824	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
From		A - Holt Rd (W)	B - Site Access	C - Holt Rd (E)
	A - Holt Rd (W)	0	13	638
	B - Site Access	7	0	10
	C - Holt Rd (E)	806	18	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
From		A - Holt Rd (W)	B - Site Access	C - Holt Rd (E)
	A - Holt Rd (W)	0	0	7
	B - Site Access	0	0	0
	C - Holt Rd (E)	7	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.07	13.41	0.1	B	16	23
C-AB	0.09	3.90	0.2	A	66	99
C-A					742	1114
A-B					12	18
A-C					628	942



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