APPENDIX 15-5

JUNCTION CAPACITY ASSESSMENT

Appendix 15-6 Junction Capacity Assessment

All junction capacity test results are set out in Tables 15-39 to 15-53 of Chapter 15 of the EIAR.

This appendix contains the following;

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- All junction flows diagrams (Figures A15-6-1a to A15-6-16e)
- Junction model outputs for Access Junctions (1 to 7)
- Junction model outputs for Existing Junctions (A to G)

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List of Junction Model Outputs

Access junction 1, Site entrance A – R401

Access junction 2, Site entrance B – L3001

Access junction 3, Site entrance C – L3001

Access junction 3, Site entrance E – L3001

Access junction 4, Site entrance F – L1001

Access junction 4, Site entrance G – L1001

Access junction 5, Site entrances I and J – R414

Access junction 6, Site entrance L – R414

Access junction 7, Site entrance M – L6002

Existing junction A, R402 / R400 junction, Mount Lucas

Existing junction B, R402 / R401 junction, Edenderry

Existing junction C, R402 / R401 mini-roundabout, Edenderry

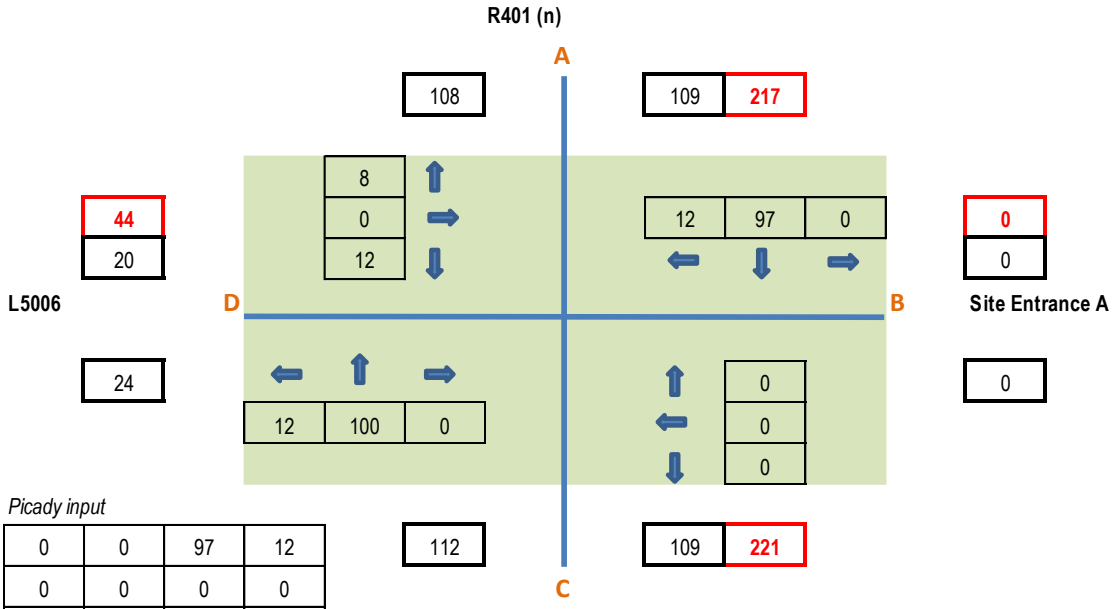
Existing junction D, R402 / R403 junction, Carbury

Existing junction E, R401 / L3001 roundabout, Rathangan

Existing junction F, R415 / L7081 junction, Kilmeague

Existing junction G, R408 / R403 / L6002 junction, Prosperous

AM Peak hour - 08:00 to 09:00

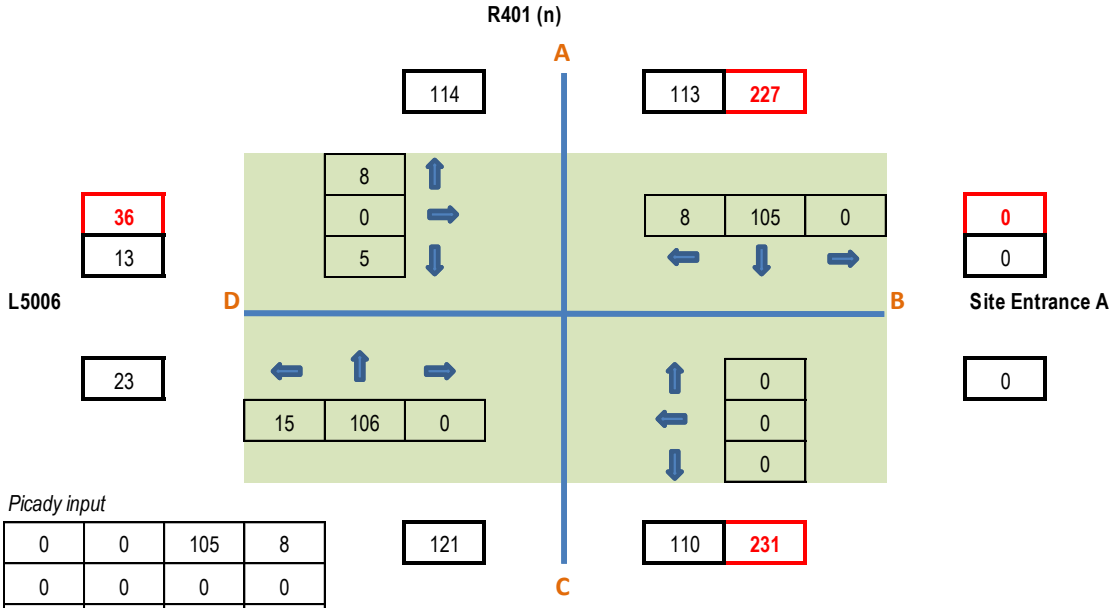


Picady input

0	0	97	12
0	0	0	0
100	0	0	12
8	0	12	0

All flows in pcus

PM Peak hour - 16:00 to 17:00



Picady input

0	0	105	8
0	0	0	0
106	0	0	15
8	0	5	0

All flows in pcus

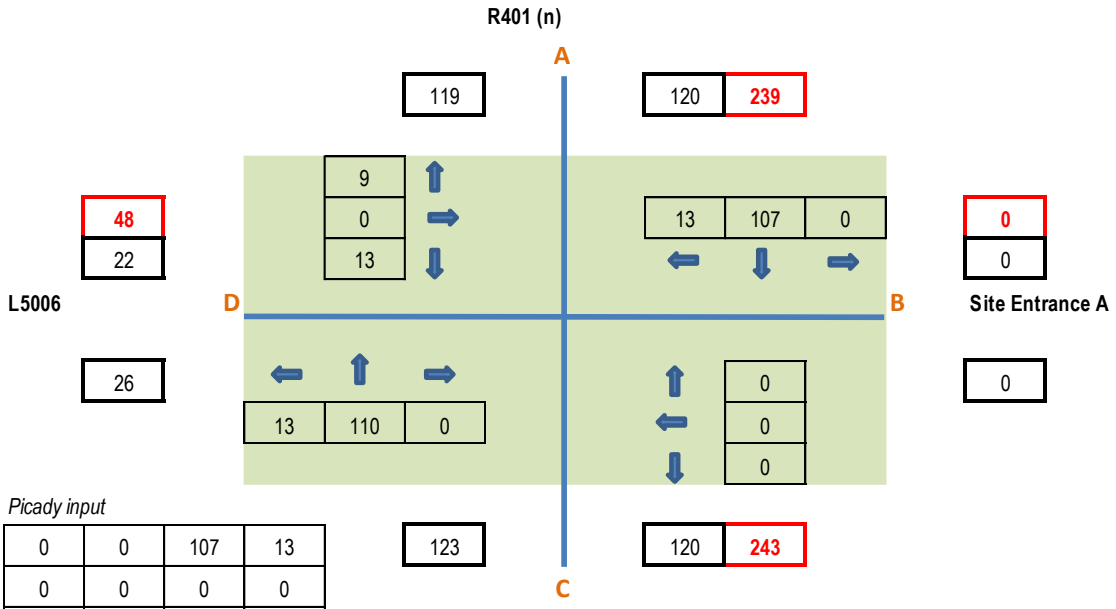
Figure A15-6-1a

Access junction 1, Site entrance A - R401

Observed traffic flows, AM and PM peak hours, Year 2025

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

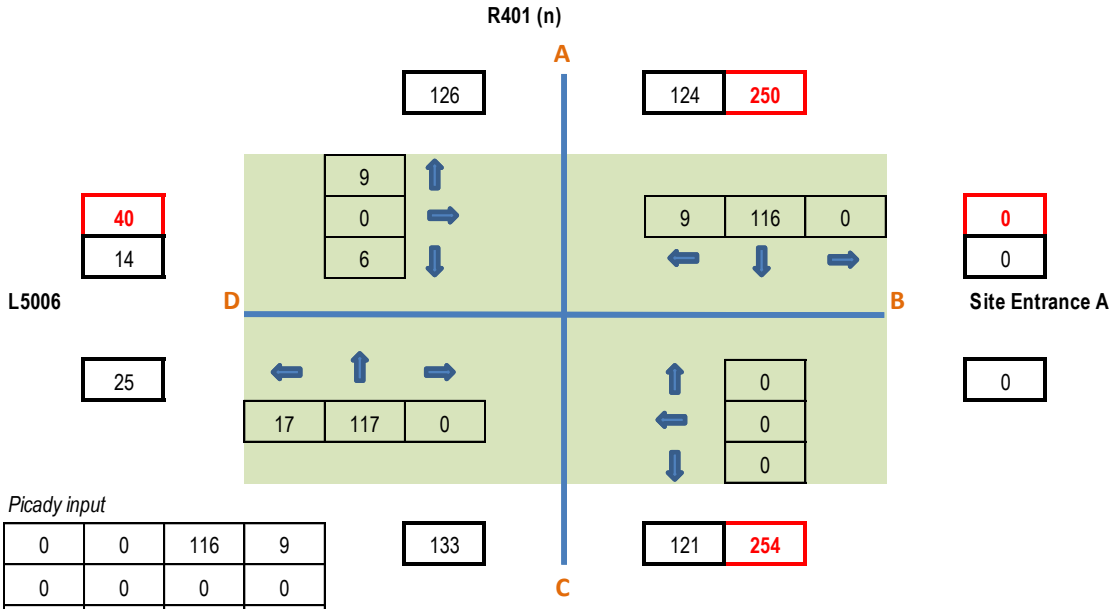


Picady input

0	0	107	13
0	0	0	0
110	0	0	13
9	0	13	0

All flows in pcus

PM Peak hour - 16:00 to 17:00



Picady input

0	0	116	9
0	0	0	0
117	0	0	17
9	0	6	0

All flows in pcus

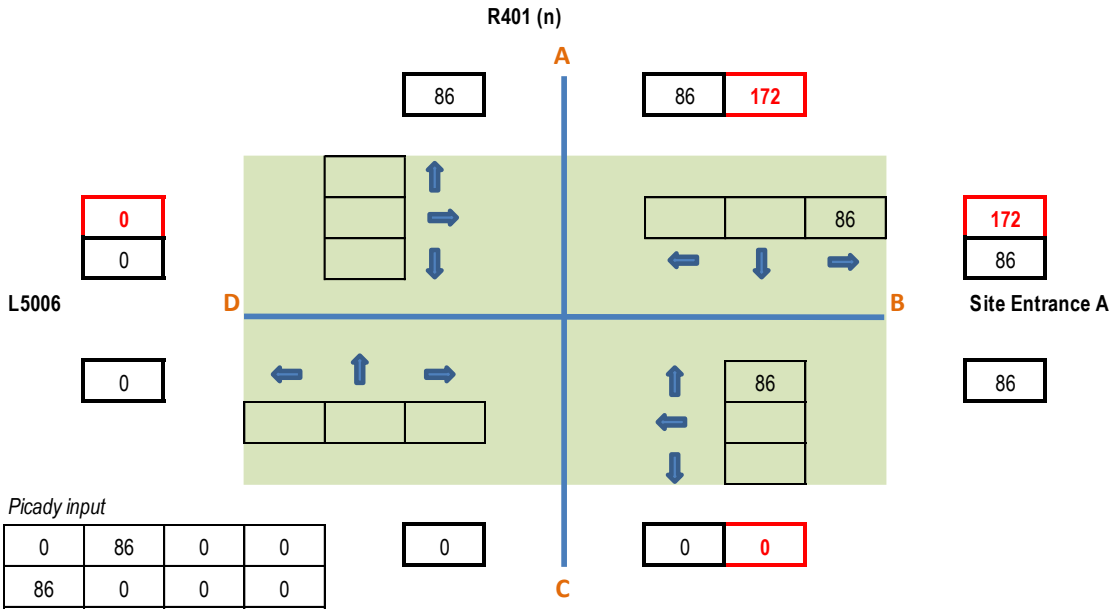
Figure A15-6-1b

Access junction 1, Site entrance A - R401

Background traffic flows, AM and PM peak hours, Year 2032

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

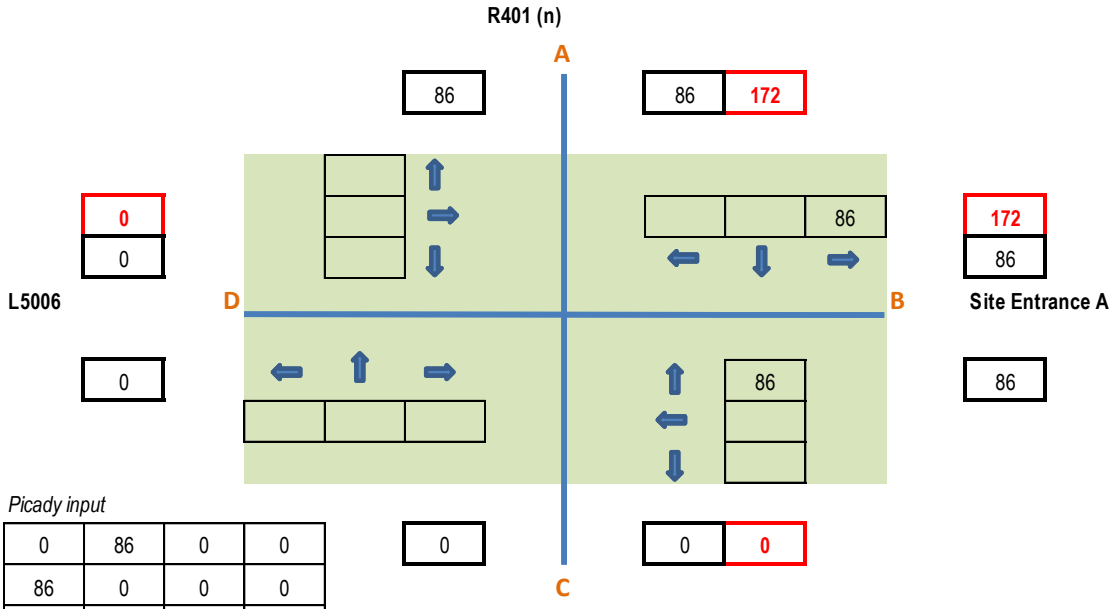


Picady input

0	86	0	0
86	0	0	0
0	0	0	0
0	0	0	0

All flows in pcus

PM Peak hour - 16:00 to 17:00



Picady input

0	86	0	0
86	0	0	0
0	0	0	0
0	0	0	0

All flows in pcus

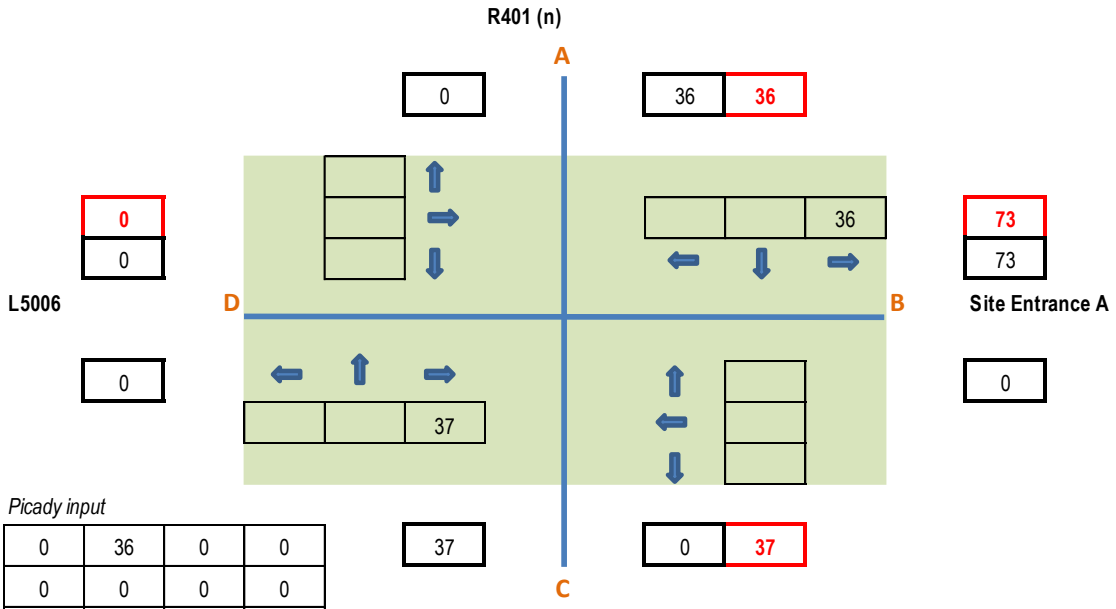
Figure A15-6-1c

Access junction 1, Site entrance A - R401

Development traffic flows (HGV pcus), AM and PM peak hours

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

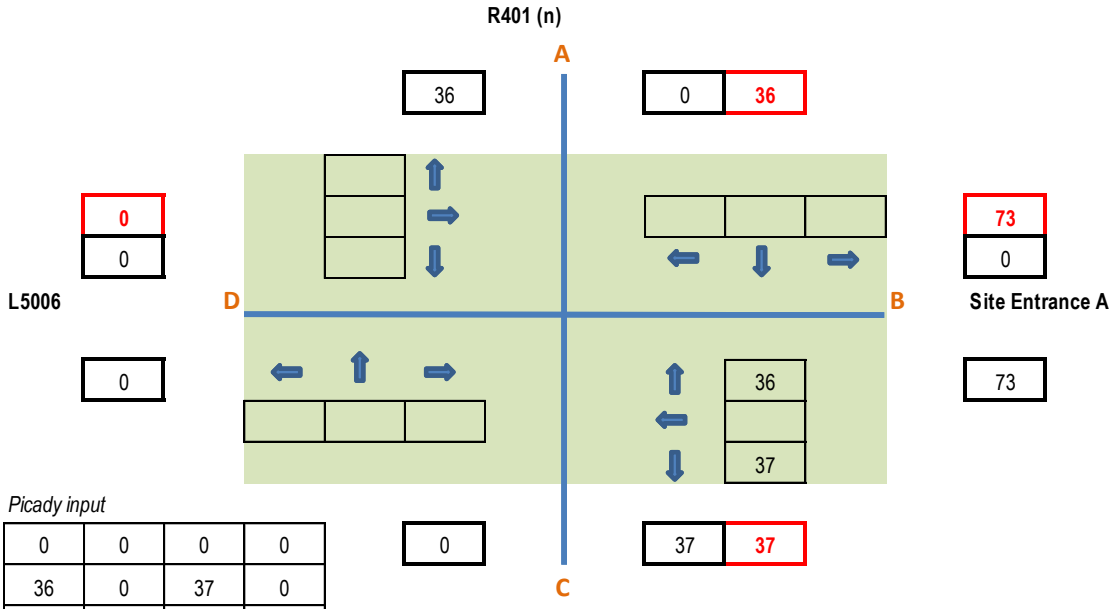


Picady input

0	36	0	0
0	0	0	0
0	37	0	0
0	0	0	0

All flows in pcus

PM Peak hour - 16:00 to 17:00



Picady input

0	0	0	0
36	0	37	0
0	0	0	0
0	0	0	0

All flows in pcus

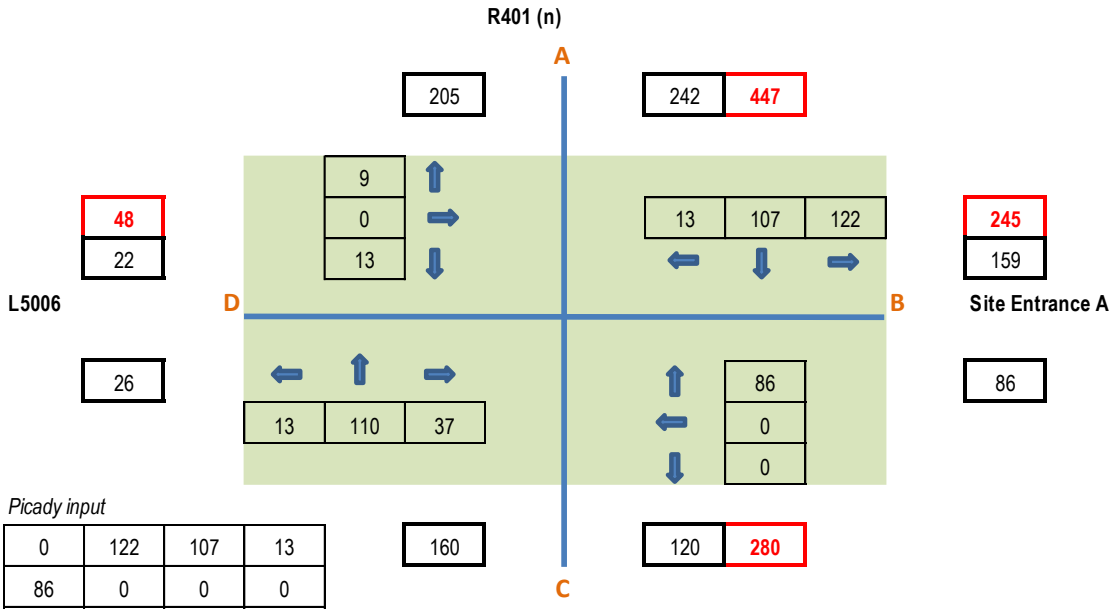
Figure A15-6-1d

Access junction 1, Site entrance A - R401

Development traffic flows (staff cars), AM and PM peak hours

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

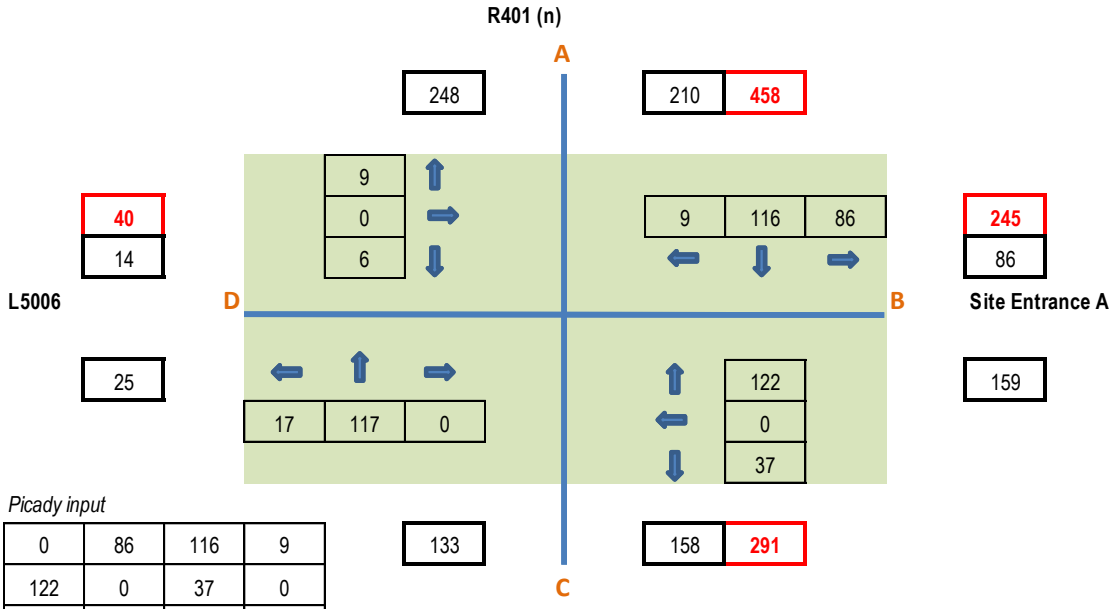


Picady input

0	122	107	13
86	0	0	0
110	37	0	13
9	0	13	0

All flows in pcus

PM Peak hour - 16:00 to 17:00



Picady input

0	86	116	9
122	0	37	0
117	0	0	17
9	0	6	0

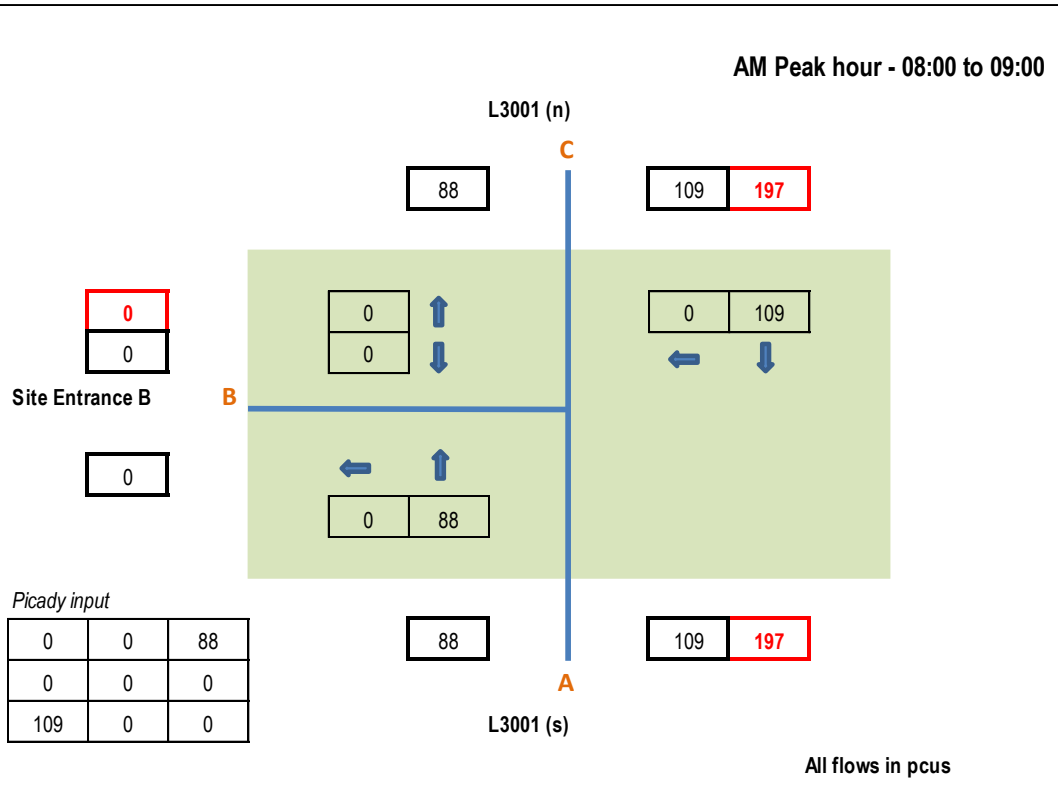
All flows in pcus

Figure A15-6-1e

Access junction 1, Site entrance A - R401

With construction traffic flows, AM and PM peak hours, Year 2032

Ballydermot Wind Farm - 19/06/2026



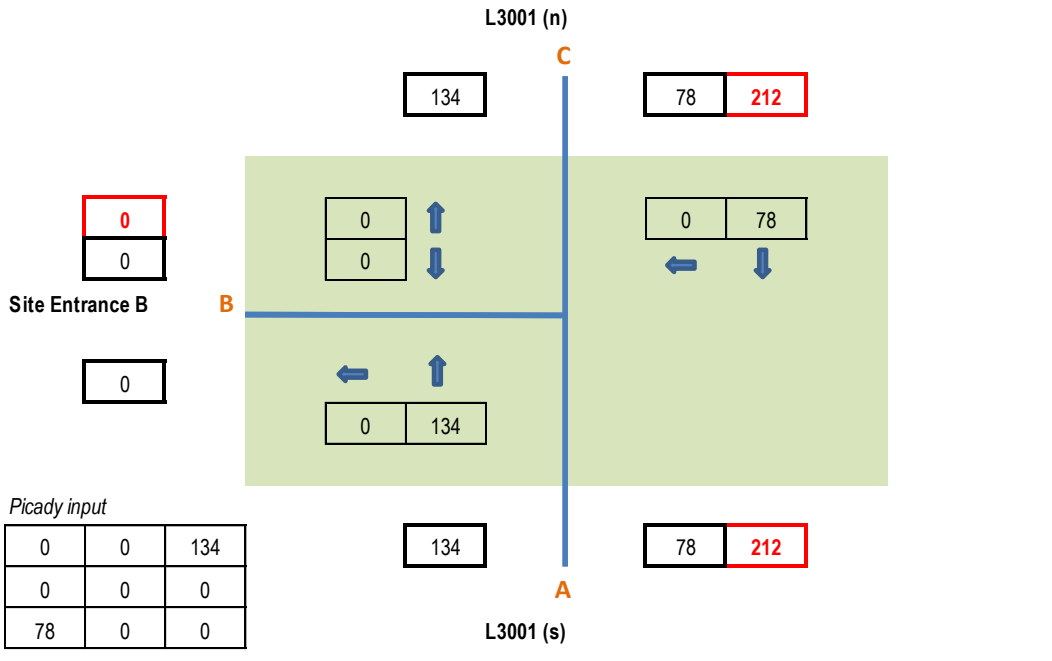


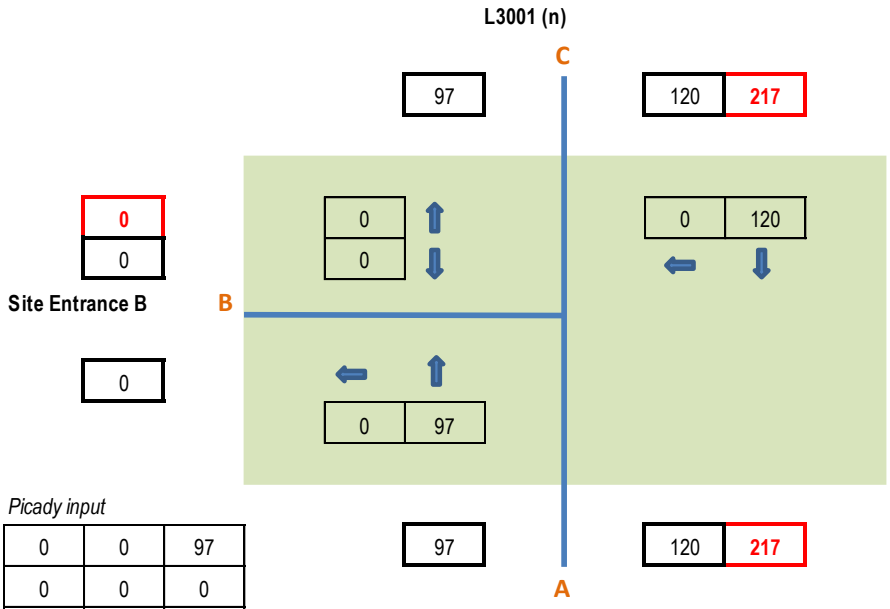
Figure A15-6-2a

Access junction 2, Site entrance B - L3001

Observed traffic flows, AM and PM peak hours, Year 2025

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

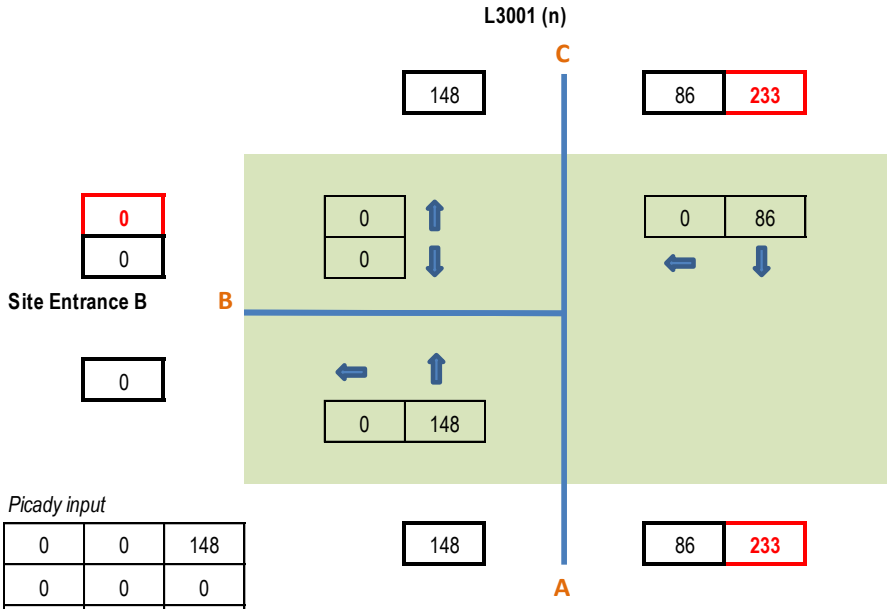


Picady input

0	0	97
0	0	0
120	0	0

All flows in pcus

PM Peak hour - 16:00 to 17:00



Picady input

0	0	148
0	0	0
86	0	0

All flows in pcus

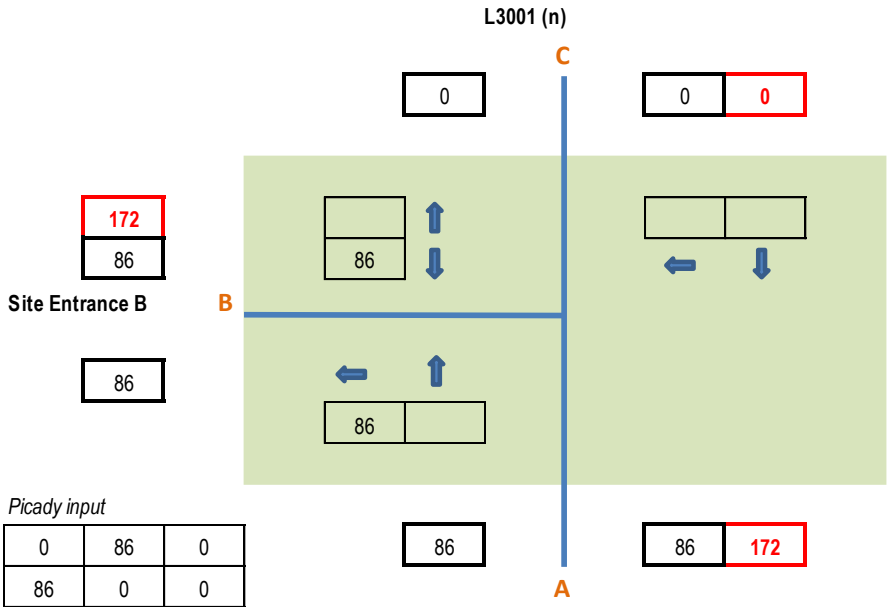
Figure A15-6-2b

Access junction 2, Site entrance B - L3001

Backgrown traffic flows, AM and PM peak hours, Year 2032

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

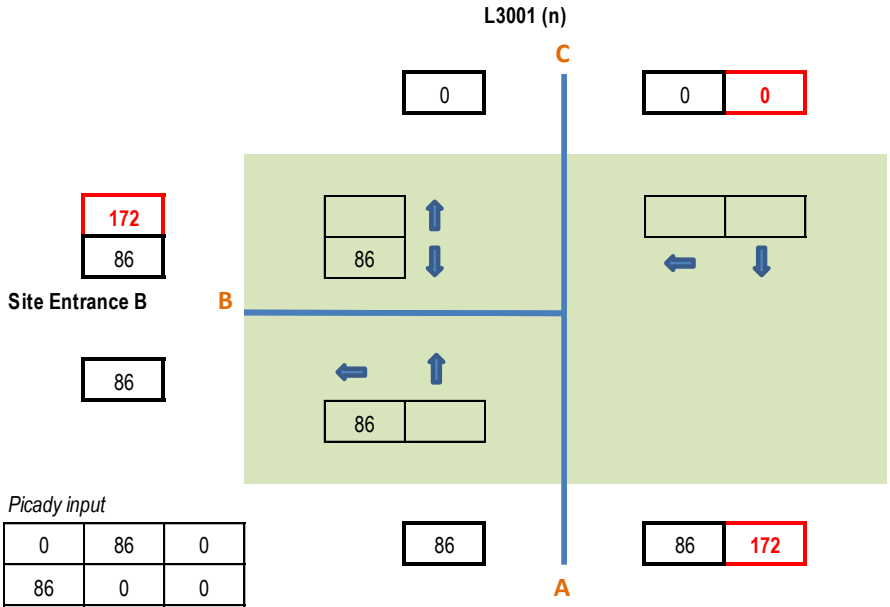


Picady input

0	86	0
86	0	0
0	0	0

All flows in pcus

PM Peak hour - 17:00 to 18:00



Picady input

0	86	0
86	0	0
0	0	0

All flows in pcus

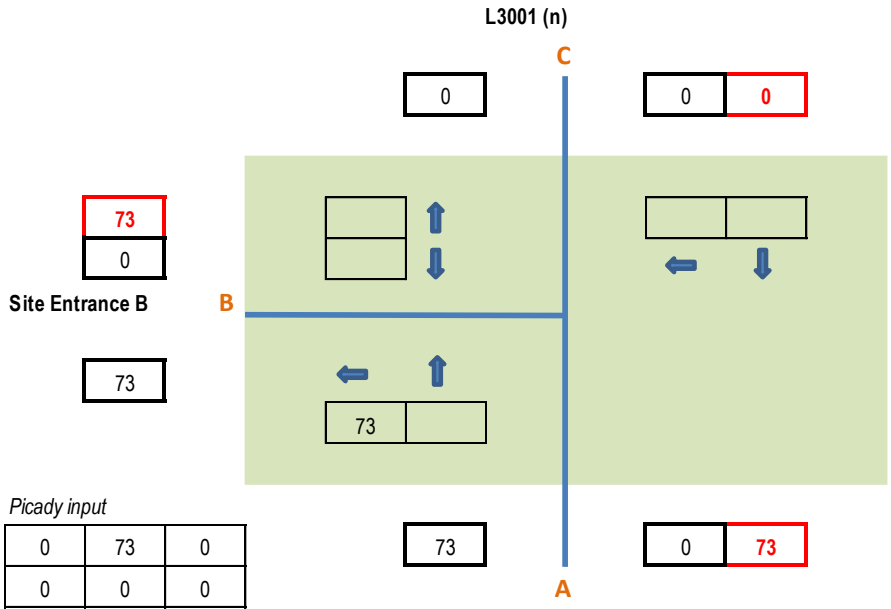
Figure A15-6-2c

Access junction 2, Site entrance B - L3001

Development traffic flows (HGV pcus), AM and PM peak hours

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

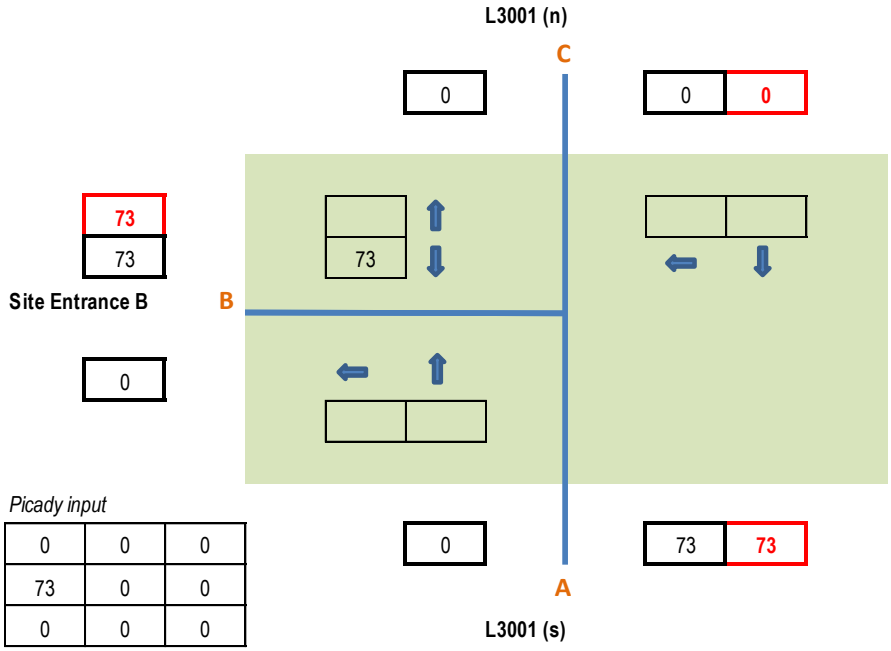


Picady input

0	73	0
0	0	0
0	0	0

All flows in pcus

PM Peak hour - 16:00 to 17:00



Picady input

0	0	0
73	0	0
0	0	0

All flows in pcus

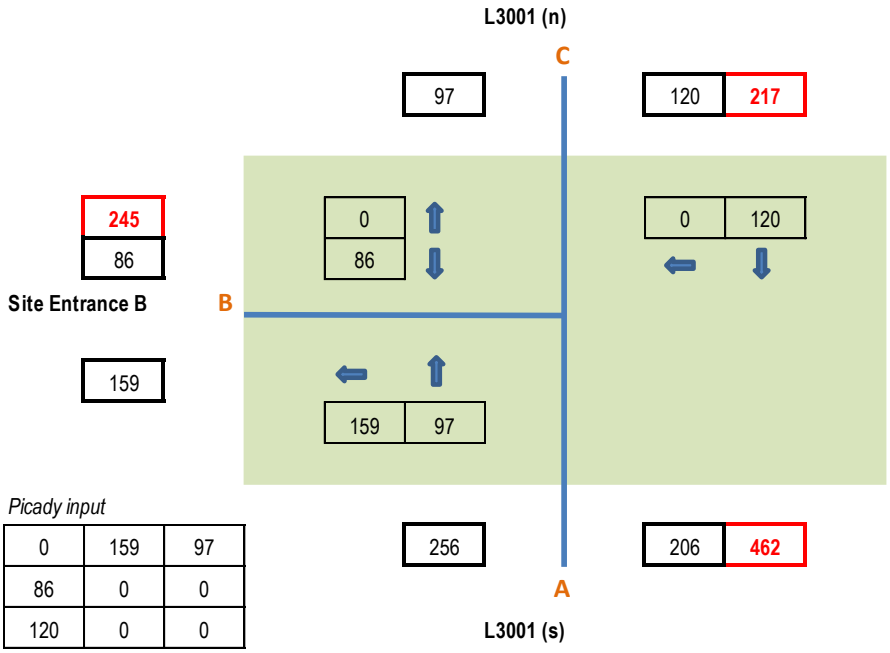
Figure A15-6-2d

Access junction 2, Site entrance B - L3001

Development traffic flows (staff cars), AM and PM peak hours

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

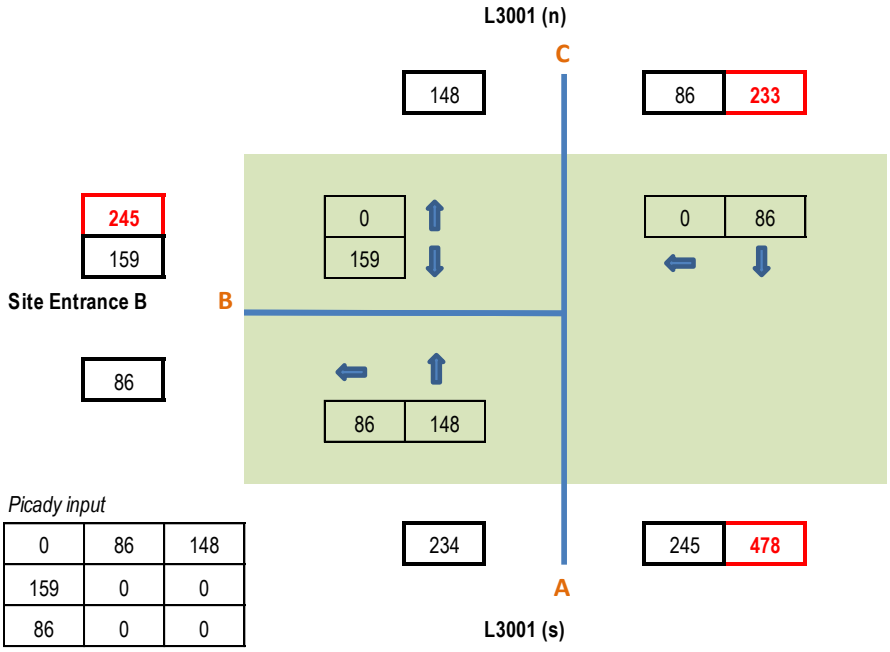


Picady input

0	159	97
86	0	0
120	0	0

All flows in pcus

PM Peak hour - 16:00 to 17:00



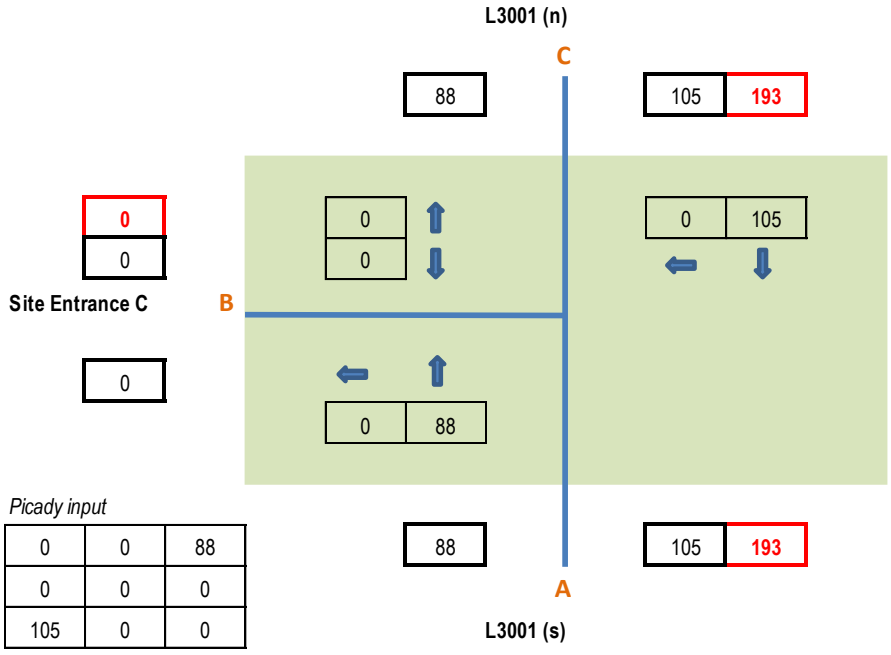
Picady input

0	86	148
159	0	0
86	0	0

All flows in pcus

Figure A15-6-2e	Access junction 2, Site entrance B - L3001
	With construction traffic flows, AM and PM peak hours, Year 2032
Ballydermot Wind Farm - 19/06/2026	

AM Peak hour - 08:00 to 09:00

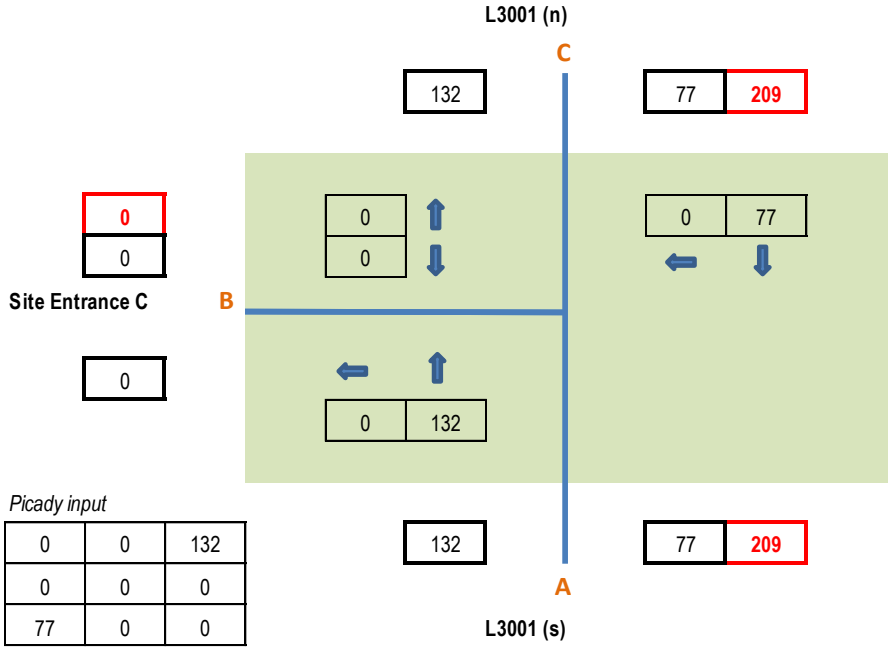


Picady input

0	0	88
0	0	0
105	0	0

All flows in pcus

PM Peak hour - 17:00 to 18:00



Picady input

0	0	132
0	0	0
77	0	0

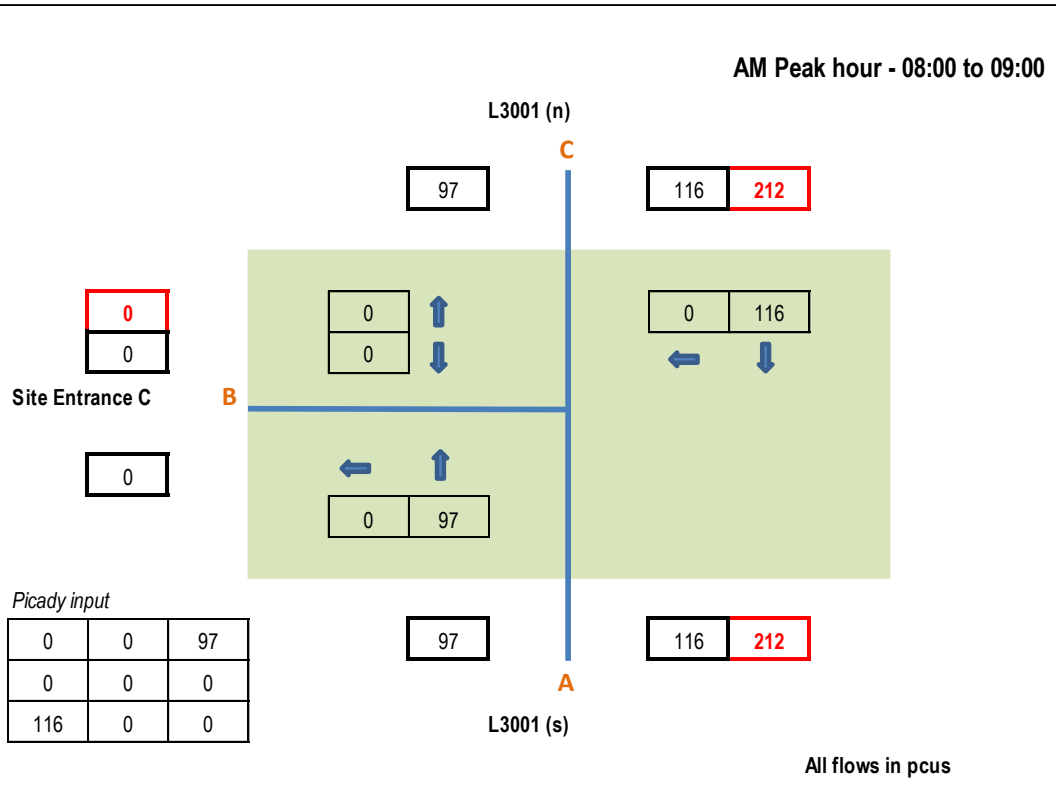
All flows in pcus

Figure A15-6-3a

Access junction 3, Site entrance C - L3001

Observed traffic flows, AM and PM peak hours, Year 2025

Ballydermot Wind Farm - 19/06/2026



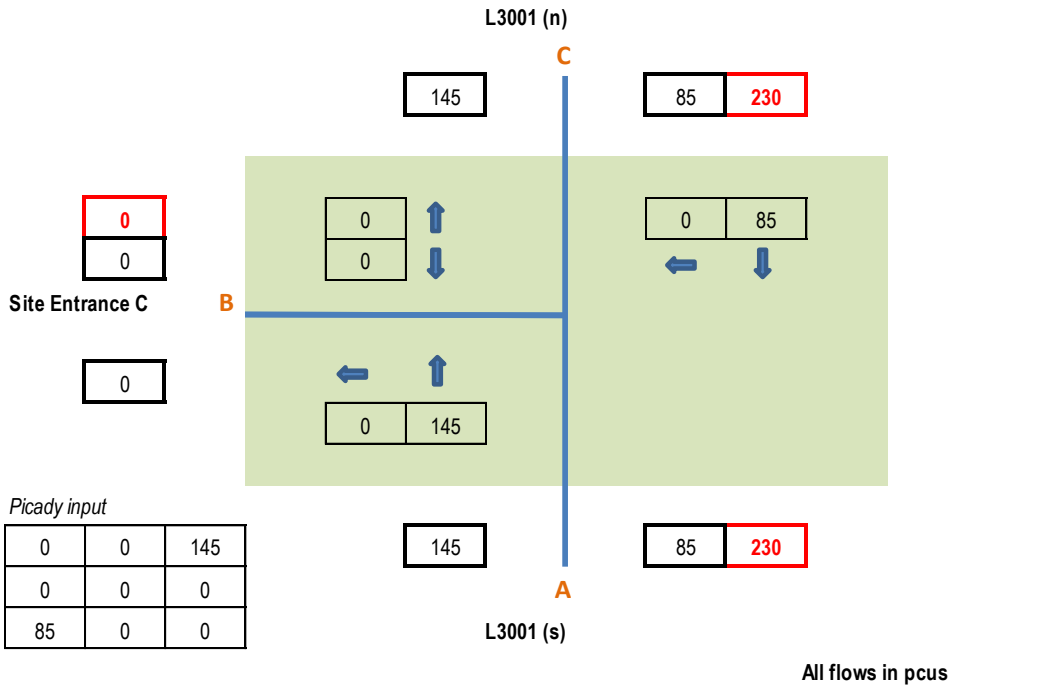
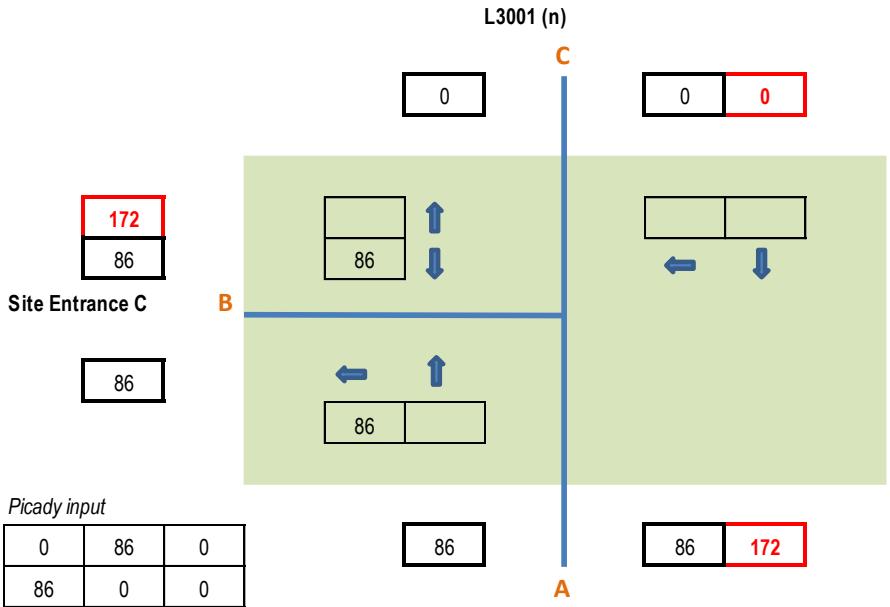


Figure A15-6-3b	Access junction 3, Site entrance C - L3001 Backgrown traffic flows, AM and PM peak hours, Year 2032
Ballydermot Wind Farm - 19/06/2026	

AM Peak hour - 08:00 to 09:00

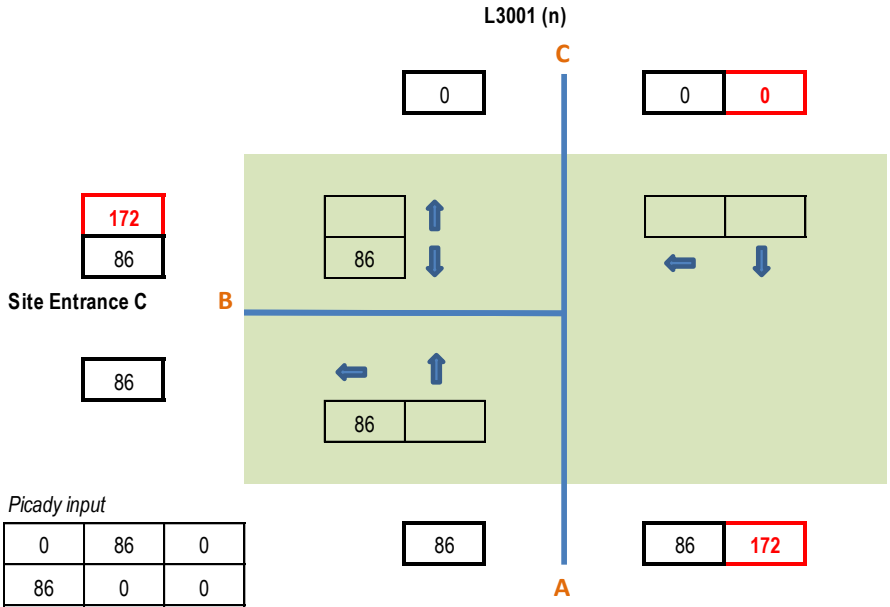


Picady input

0	86	0
86	0	0
0	0	0

All flows in pcus

PM Peak hour - 17:00 to 18:00



Picady input

0	86	0
86	0	0
0	0	0

All flows in pcus

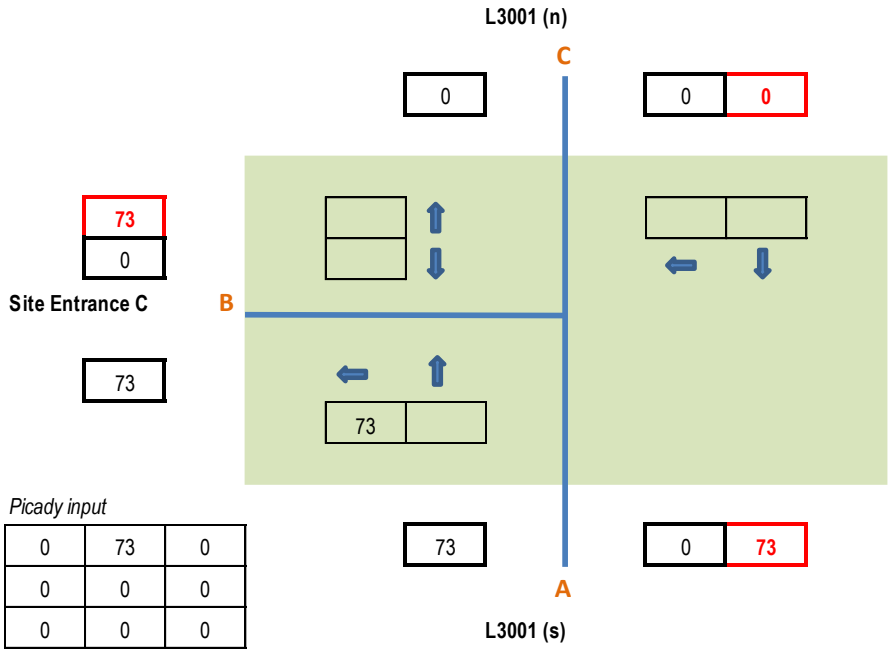
Figure A15-6-3c

Access junction 3, Site entrance C - L3001

Development traffic flows (HGV pcus), AM and PM peak hours

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

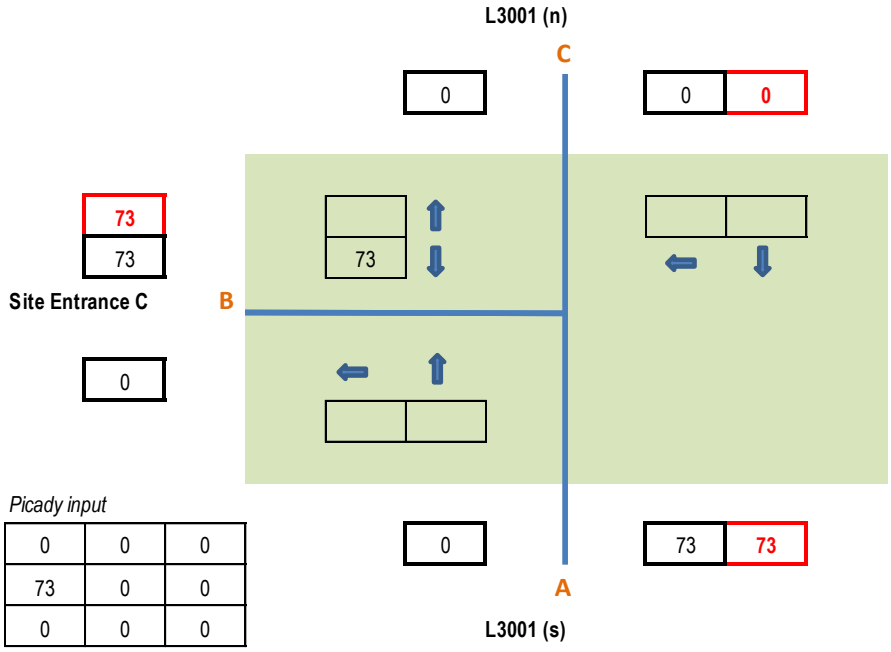


Picady input

0	73	0
0	0	0
0	0	0

All flows in pcus

PM Peak hour - 17:00 to 18:00



Picady input

0	0	0
73	0	0
0	0	0

All flows in pcus

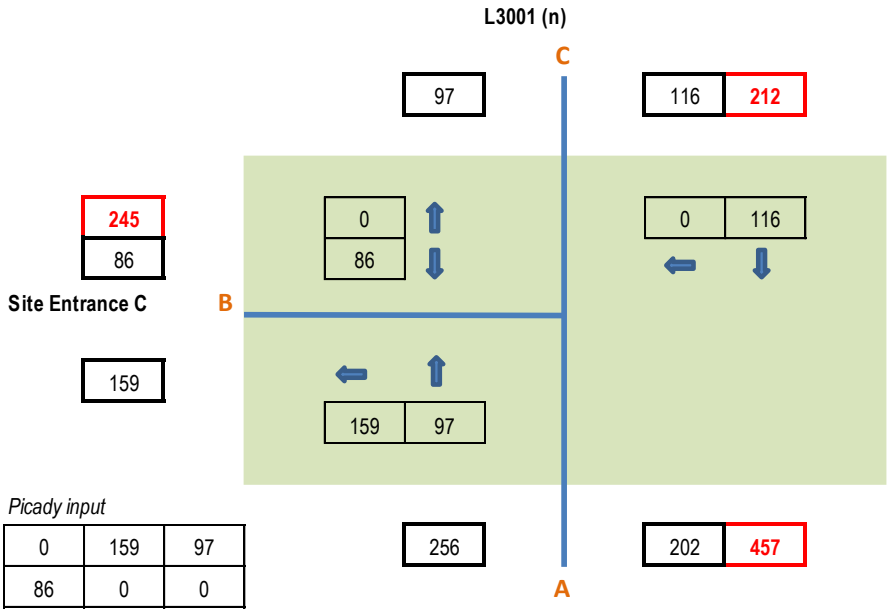
Figure A15-6-3d

Access junction 3, Site entrance C - L3001

Development traffic flows (staff cars), AM and PM peak hours

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

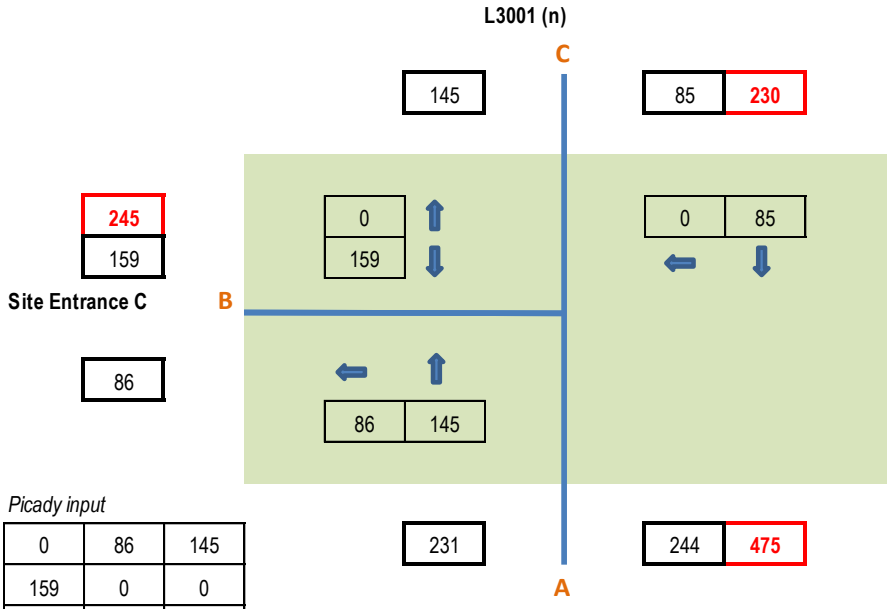


Picady input

0	159	97
86	0	0
116	0	0

All flows in pcus

PM Peak hour - 17:00 to 18:00



Picady input

0	86	145
159	0	0
85	0	0

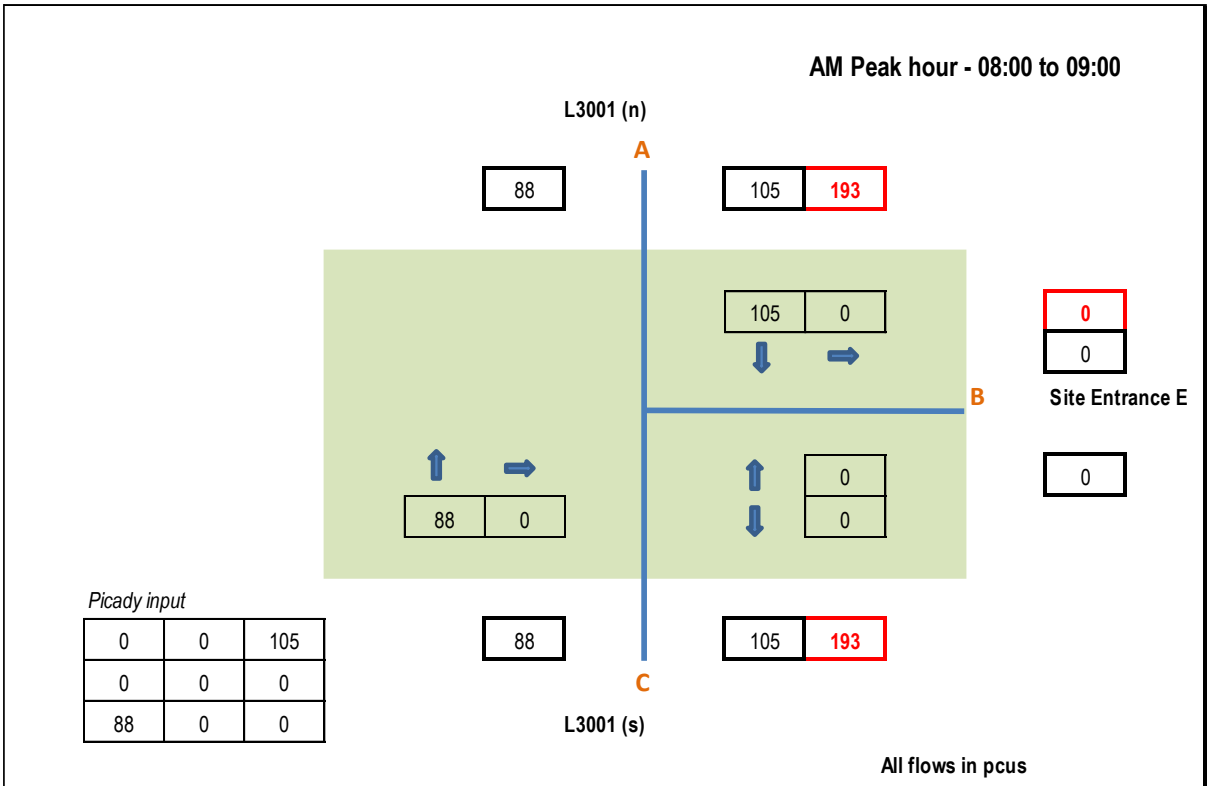
All flows in pcus

Figure A15-6-3e

Access junction 3, Site entrance C - L3001

With construction traffic flows, AM and PM peak hours, Year 2032

Ballydermot Wind Farm - 19/06/2026



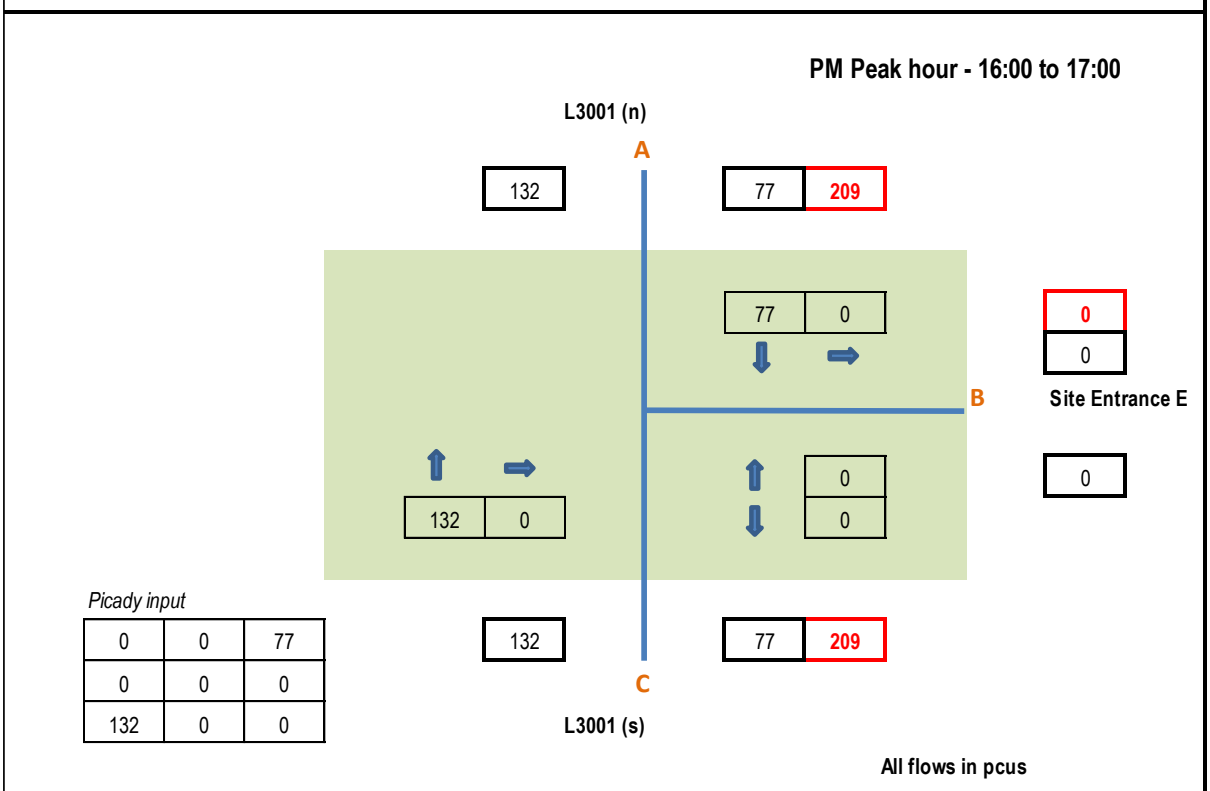
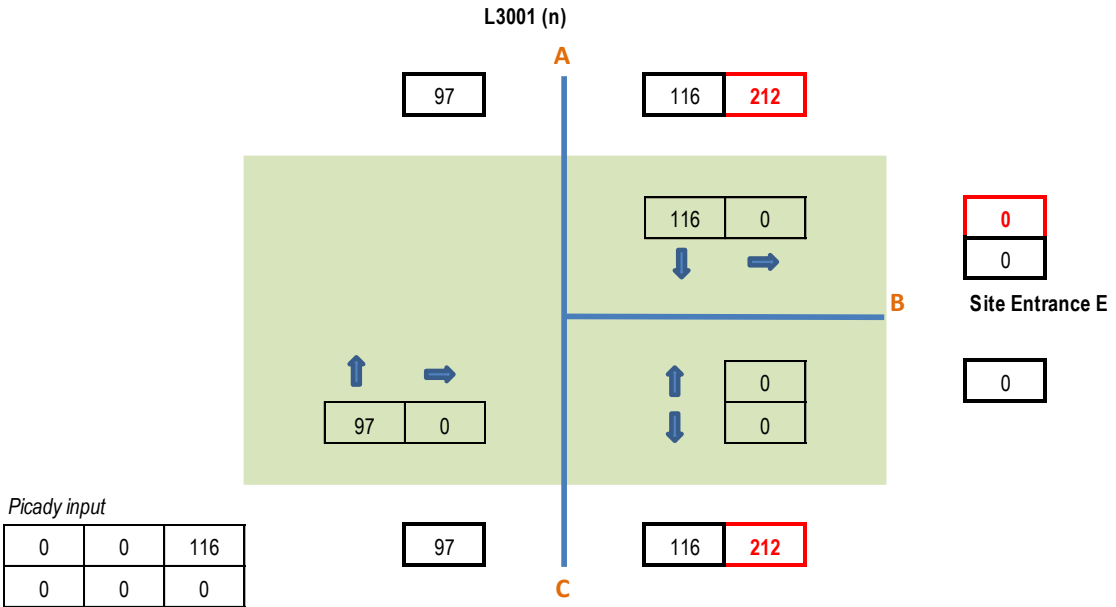


Figure A15-6-4a	Access junction 3, Site entrance E - L3001 Observed traffic flows, AM and PM peak hours, Year 2025
Ballydermot Wind Farm - 19/06/2026	

AM Peak hour - 08:00 to 09:00

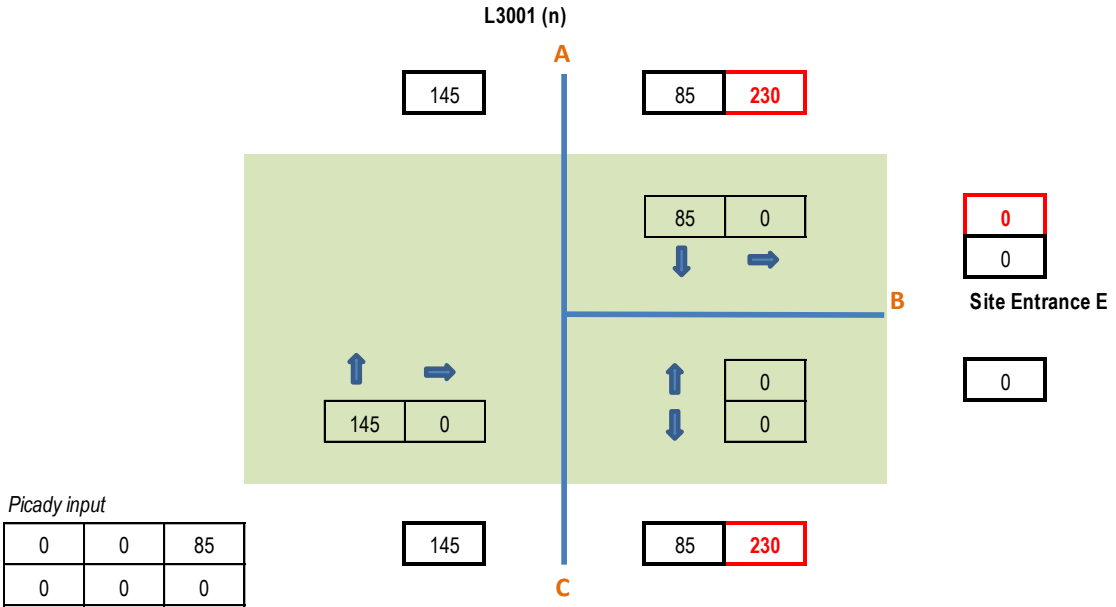


Picady input

0	0	116
0	0	0
97	0	0

All flows in pcus

PM Peak hour - 16:00 to 17:00



Picady input

0	0	85
0	0	0
145	0	0

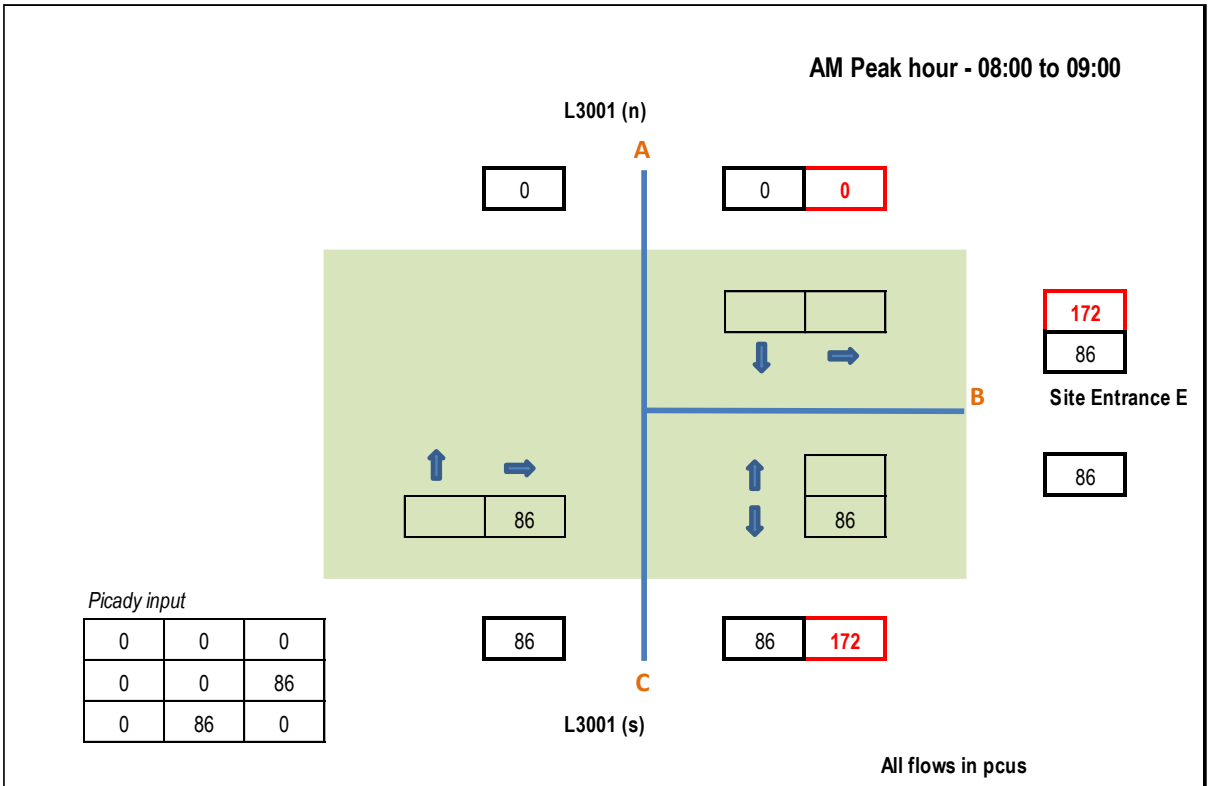
All flows in pcus

Figure A15-6-4b

Access junction 3, Site entrance E - L3001

Background traffic flows, AM and PM peak hours, Year 2032

Ballydermot Wind Farm - 19/06/2026



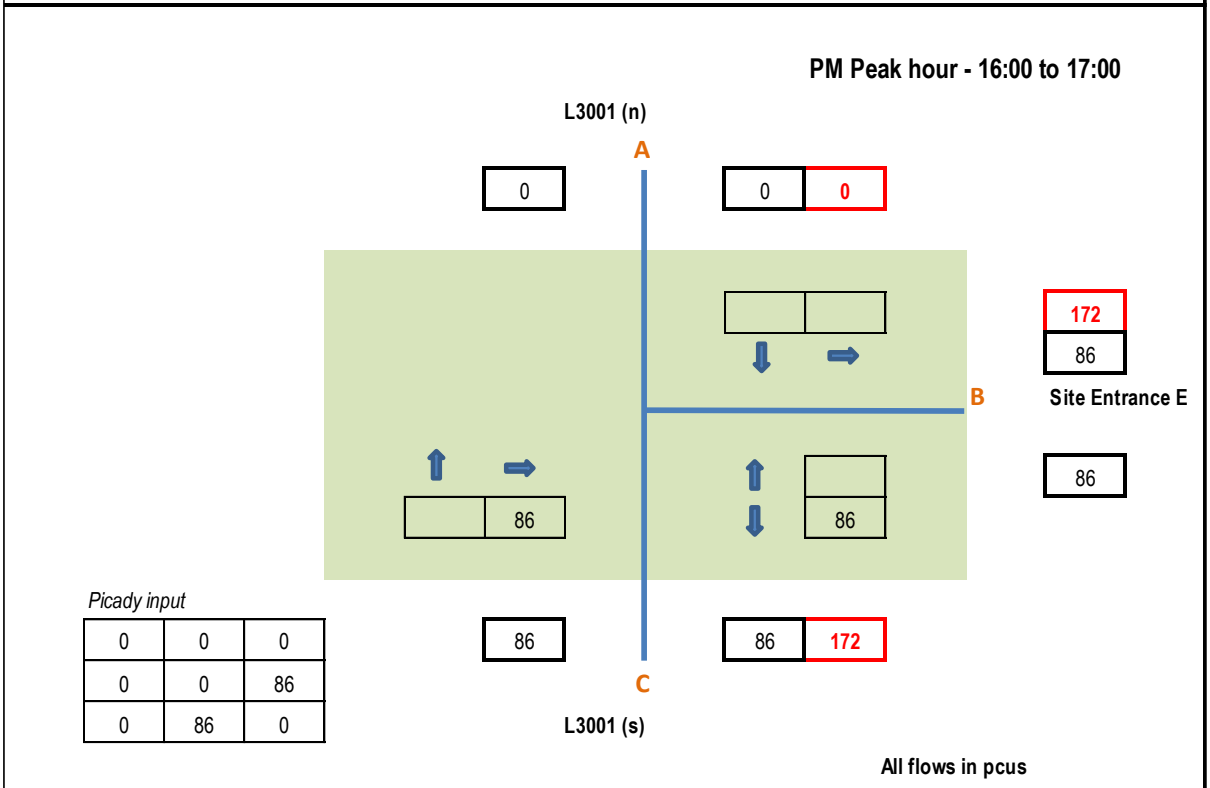
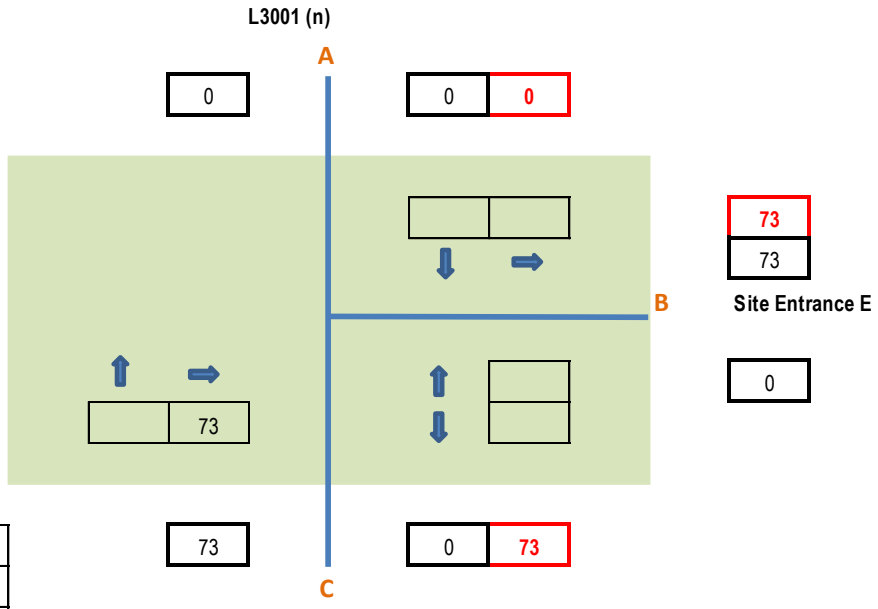


Figure A15-6-4c	Access junction 3, Site entrance E - L3001 Development traffic flows (HGV pcus), AM and PM peak hours
Ballydermot Wind Farm - 19/06/2026	

AM Peak hour - 08:00 to 09:00

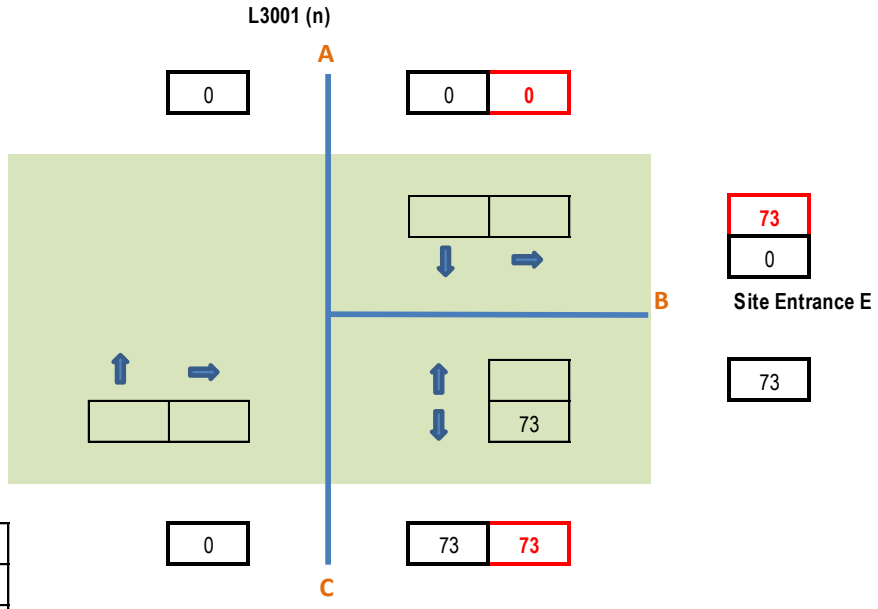


Picady input

0	0	0
0	0	0
0	73	0

All flows in pcus

PM Peak hour - 16:00 to 17:00

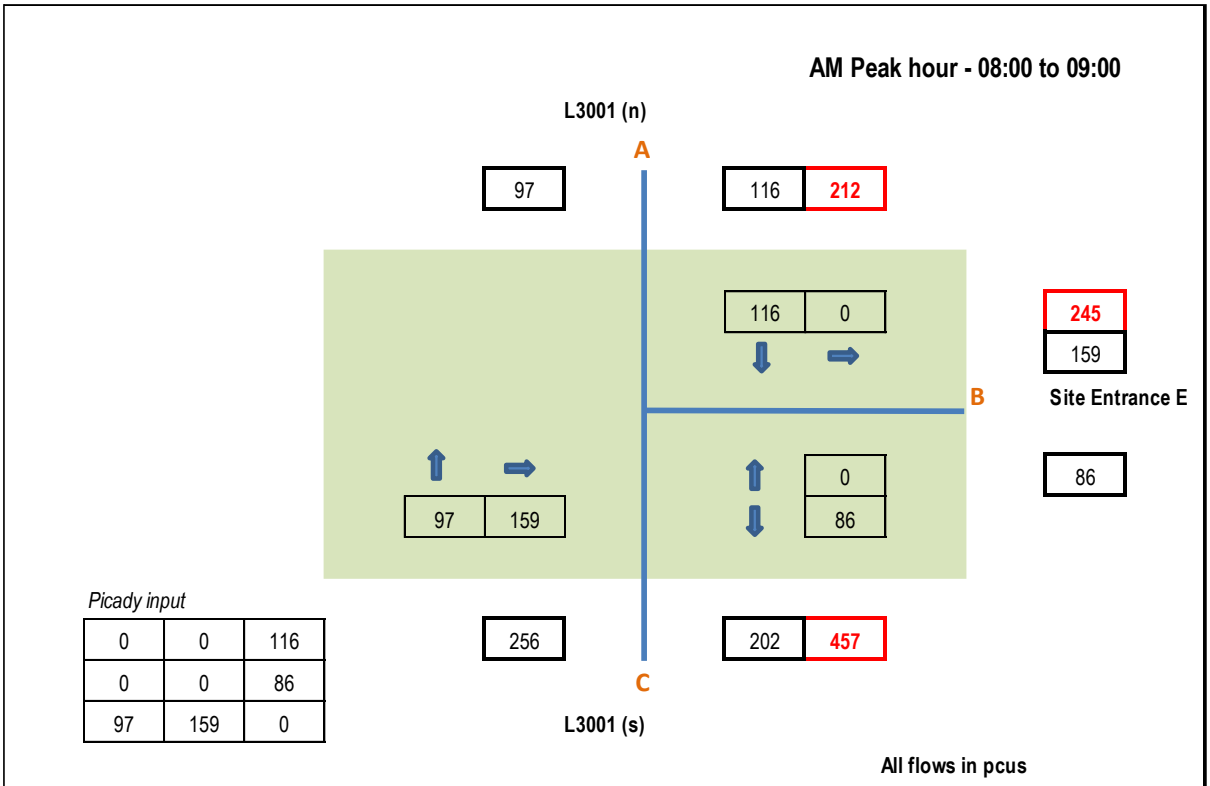


Picady input

0	0	0
0	0	73
0	0	0

All flows in pcus

Figure A15-6-4d	Access junction 3, Site entrance E - L3001 Development traffic flows (staff cars), AM and PM peak hours
Ballydermot Wind Farm - 19/06/2026	



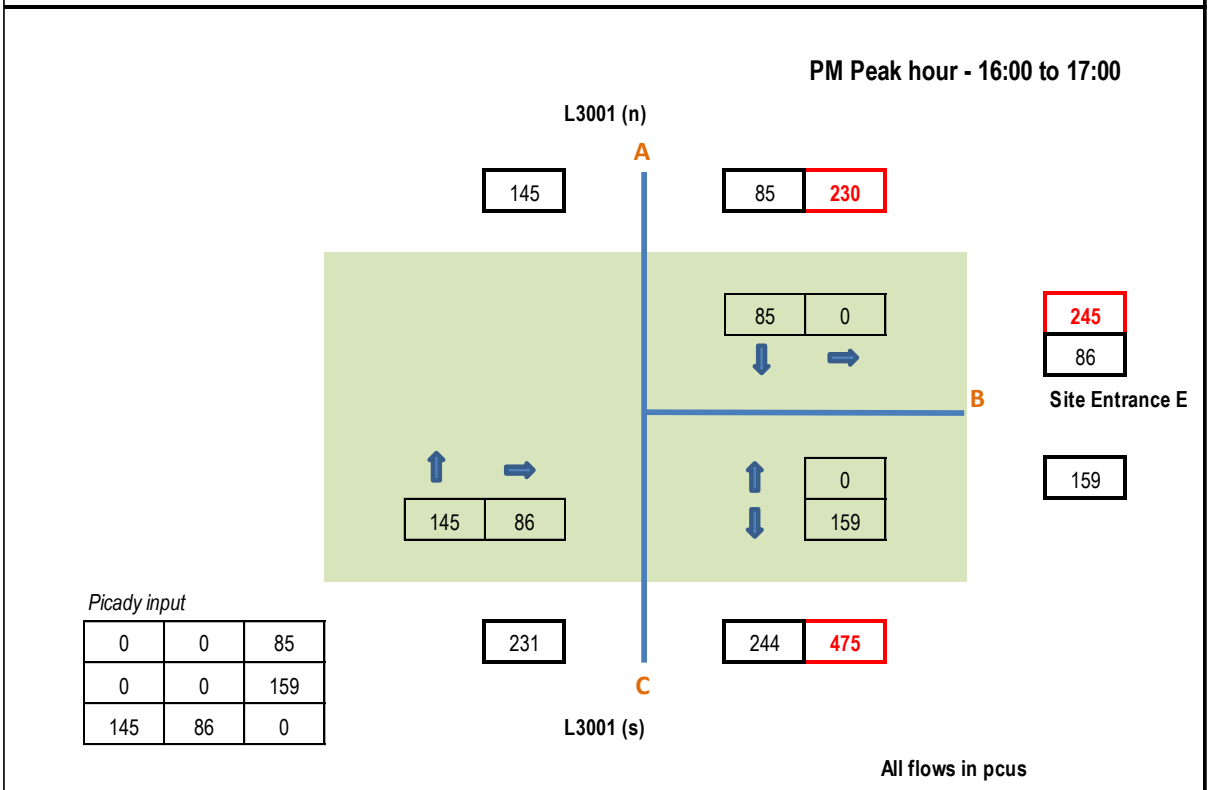
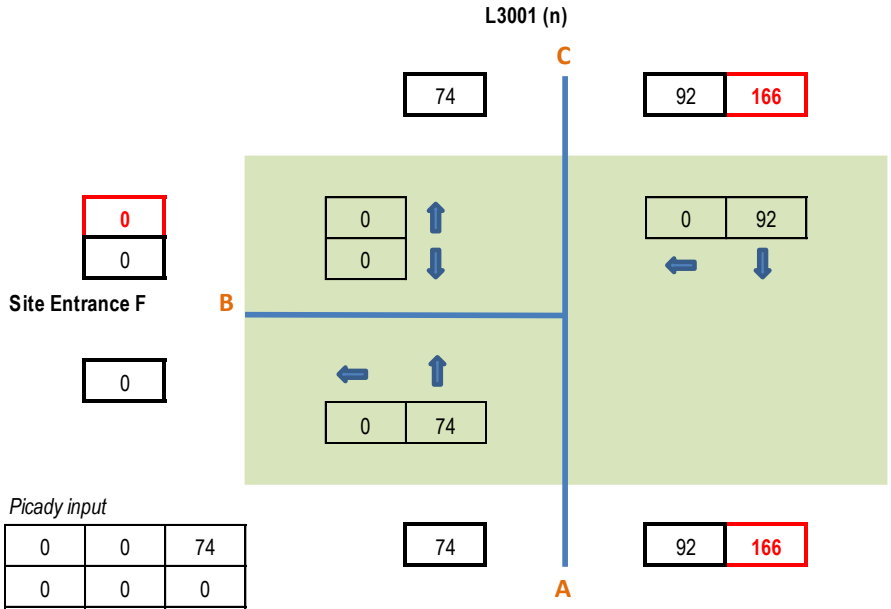


Figure A15-6-4e	Access junction 3, Site entrance E - L3001 With construction traffic flows, AM and PM peak hours, Year 2032
Ballydermot Wind Farm - 19/06/2026	

AM Peak hour - 08:00 to 09:00

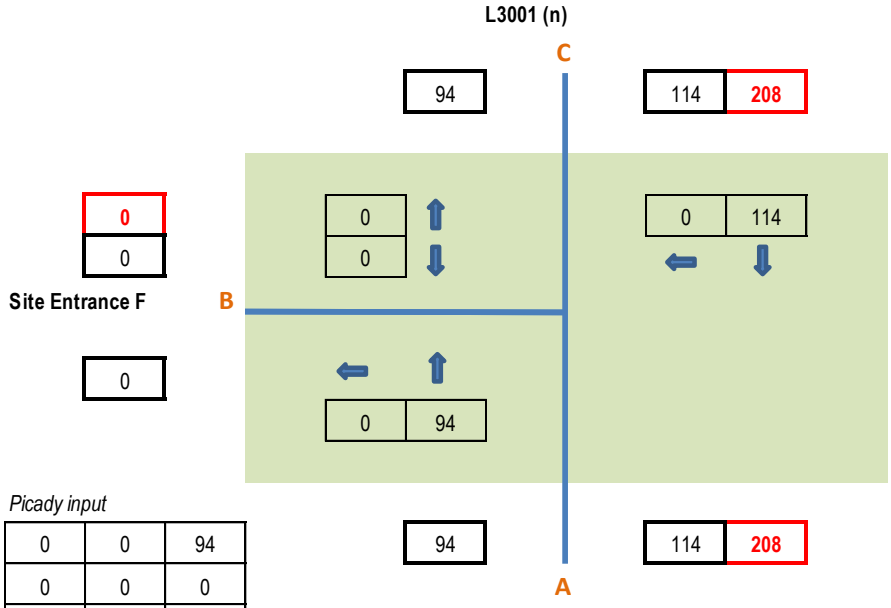


Picady input

0	0	74
0	0	0
92	0	0

All flows in pcus

PM Peak hour - 17:00 to 18:00



Picady input

0	0	94
0	0	0
114	0	0

All flows in pcus

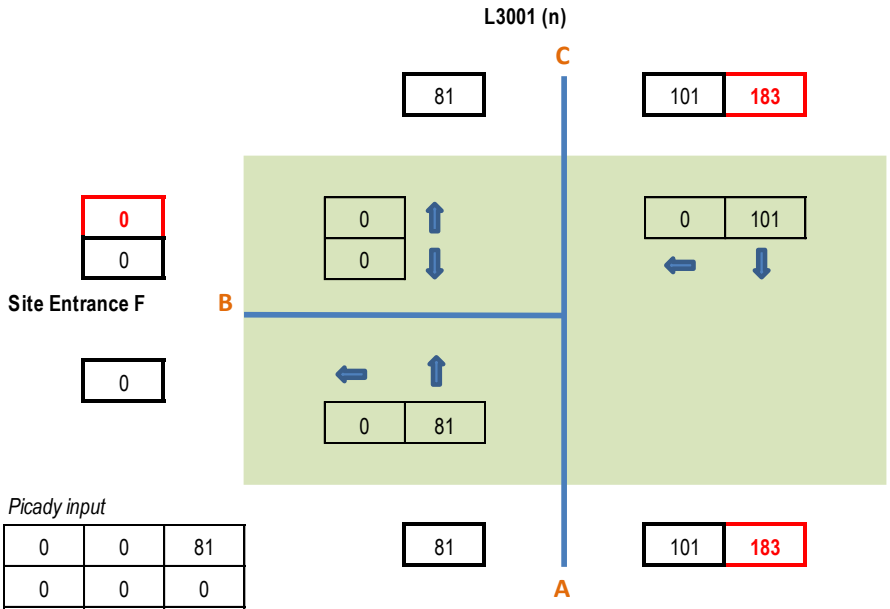
Figure A15-6-5a

Access junction 4, Site entrance F - L3001

Observed traffic flows, AM and PM peak hours, Year 2025

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

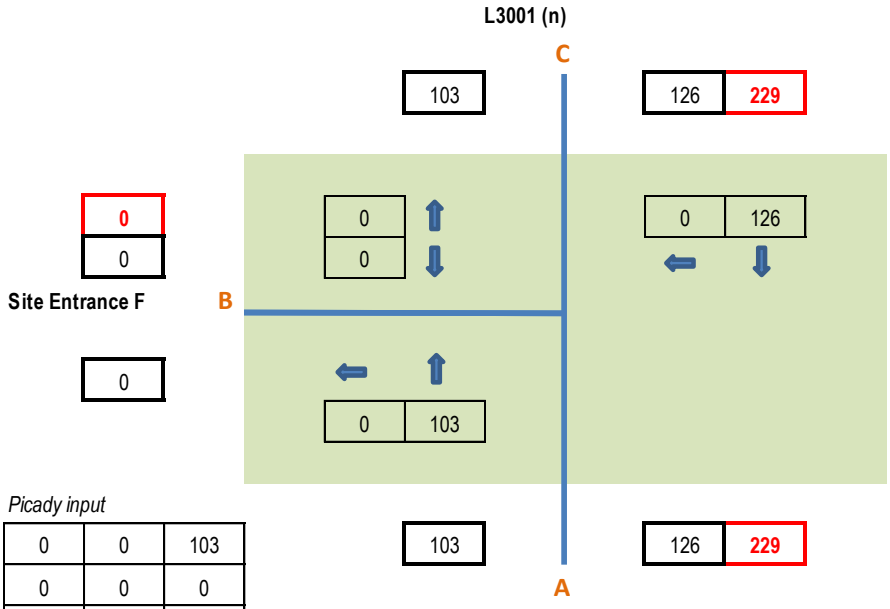


Picady input

0	0	81
0	0	0
101	0	0

All flows in pcus

PM Peak hour - 17:00 to 18:00



Picady input

0	0	103
0	0	0
126	0	0

All flows in pcus

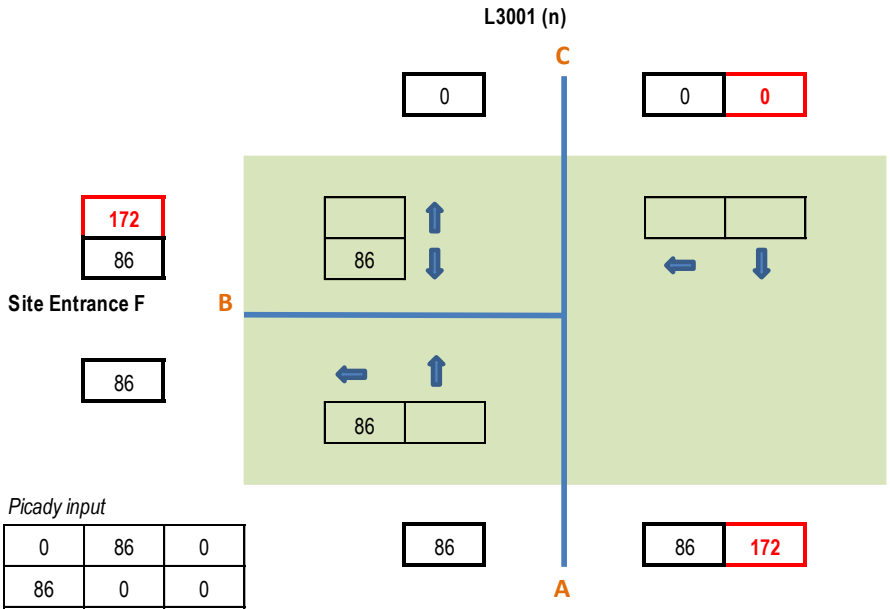
Figure A15-6-5b

Access junction 4, Site entrance F - L3001

Backgrown traffic flows, AM and PM peak hours, Year 2032

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

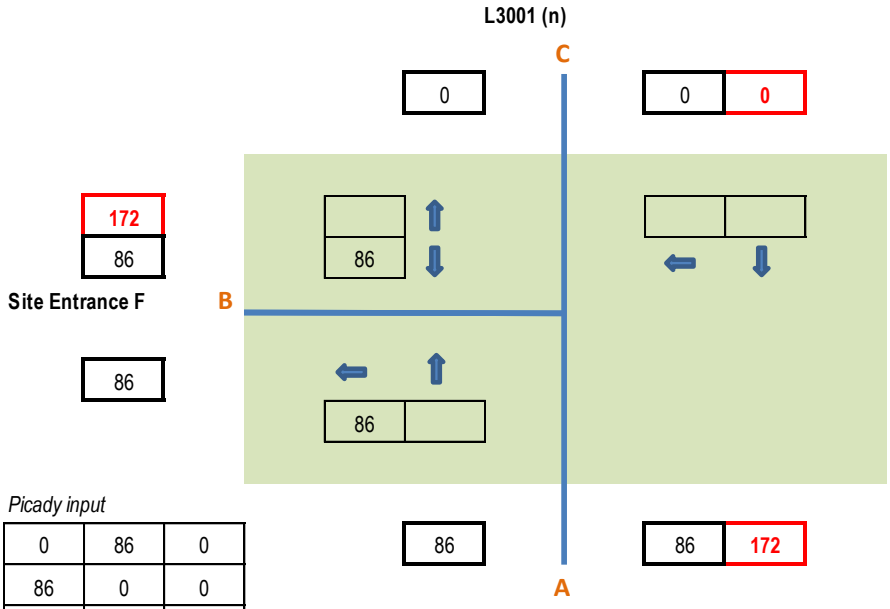


Picady input

0	86	0
86	0	0
0	0	0

All flows in pcus

PM Peak hour - 17:00 to 18:00



Picady input

0	86	0
86	0	0
0	0	0

All flows in pcus

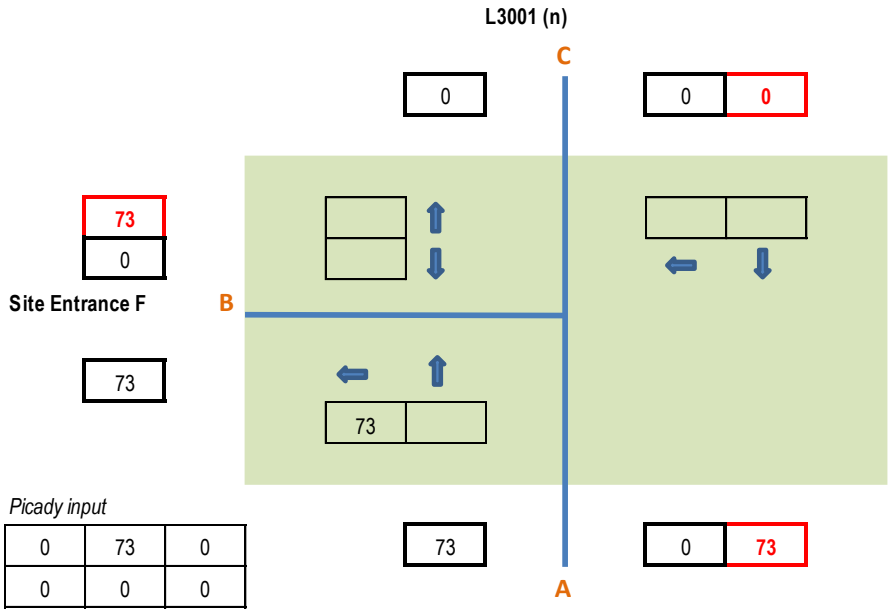
Figure A15-6-5c

Access junction 4, Site entrance F - L3001

Development traffic flows (HGV pcus), AM and PM peak hours

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

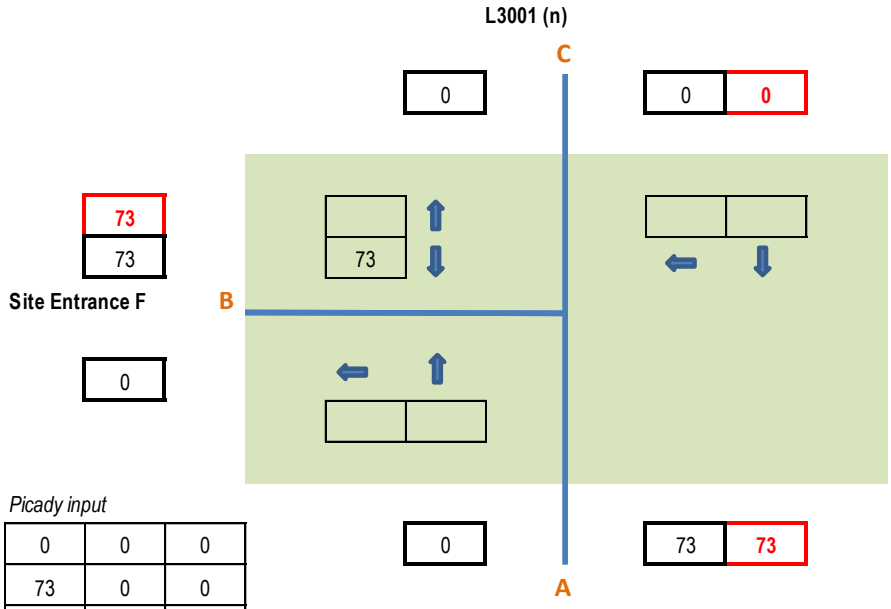


Picady input

0	73	0
0	0	0
0	0	0

All flows in pcus

PM Peak hour - 17:00 to 18:00



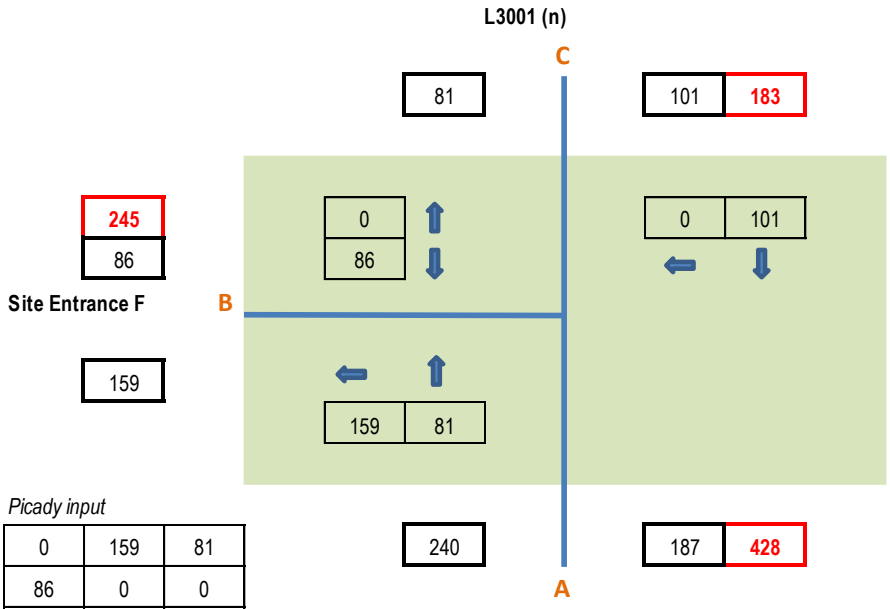
Picady input

0	0	0
73	0	0
0	0	0

All flows in pcus

Figure A15-6-5d	Access junction 4, Site entrance F - L3001 Development traffic flows (staff cars), AM and PM peak hours
Ballydermot Wind Farm - 19/06/2026	

AM Peak hour - 08:00 to 09:00

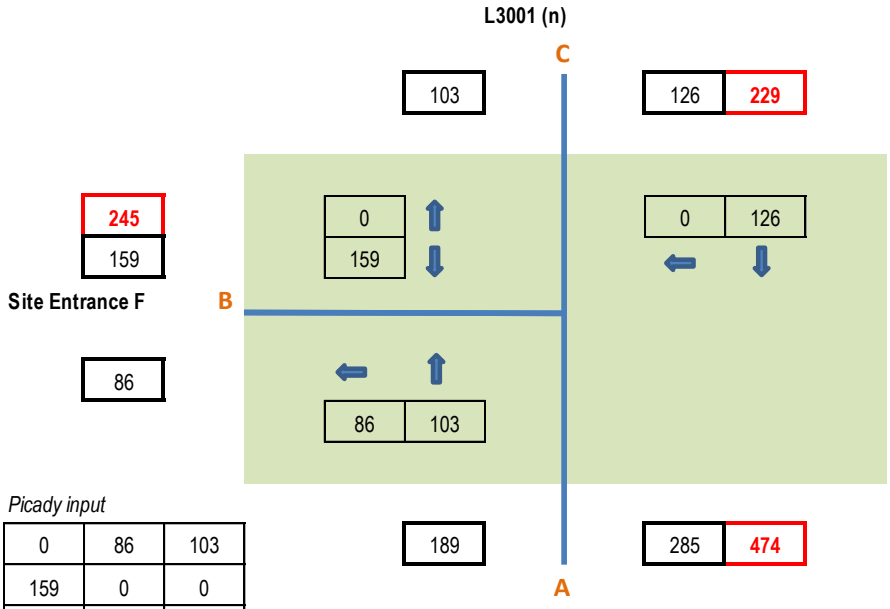


Picady input

0	159	81
86	0	0
101	0	0

All flows in pcus

PM Peak hour - 17:00 to 18:00



Picady input

0	86	103
159	0	0
126	0	0

All flows in pcus

Figure A15-6-5e	Access junction 4, Site entrance F - L3001 With construction traffic flows, AM and PM peak hours, Year 2032
Ballydermot Wind Farm - 19/06/2026	

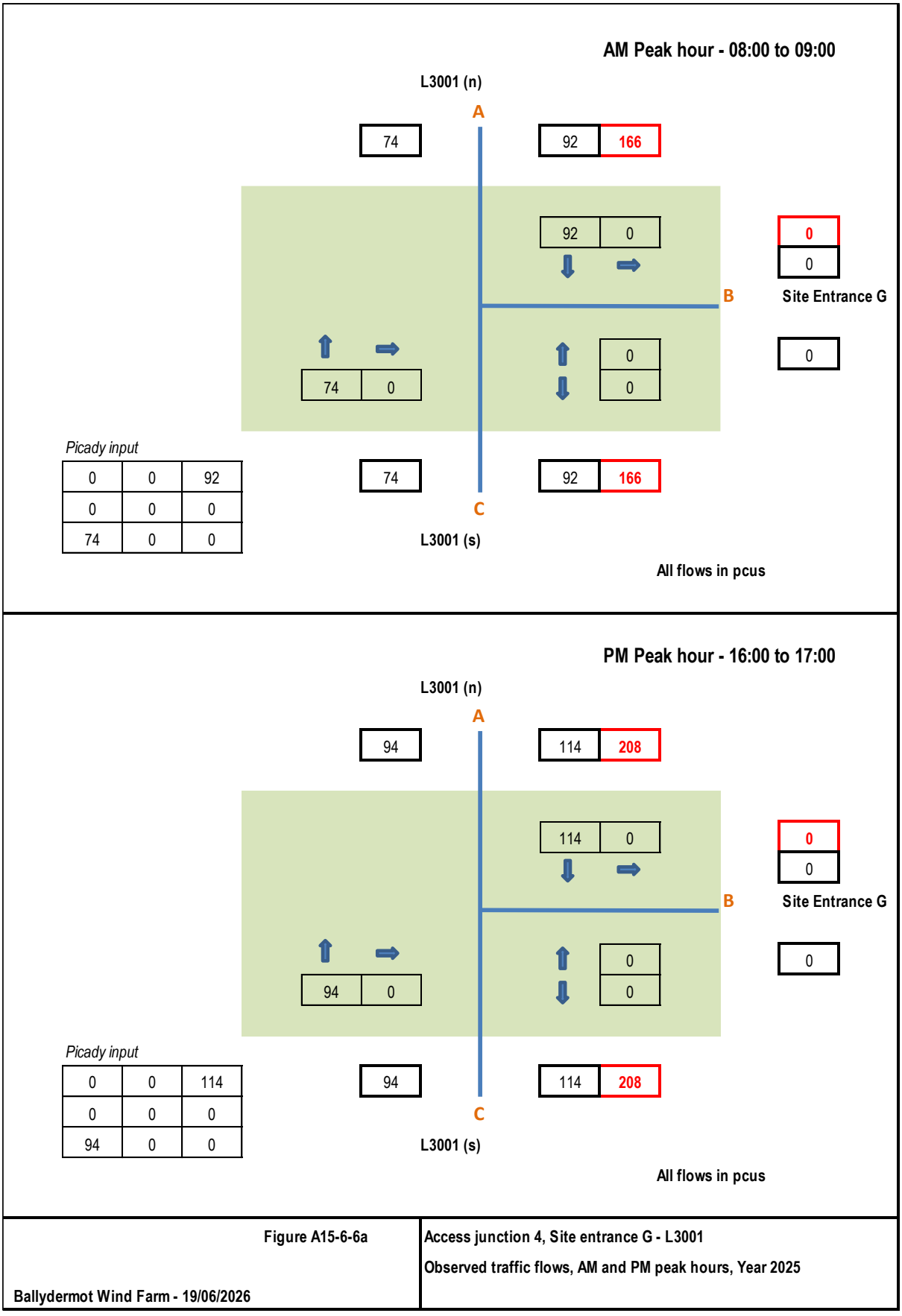
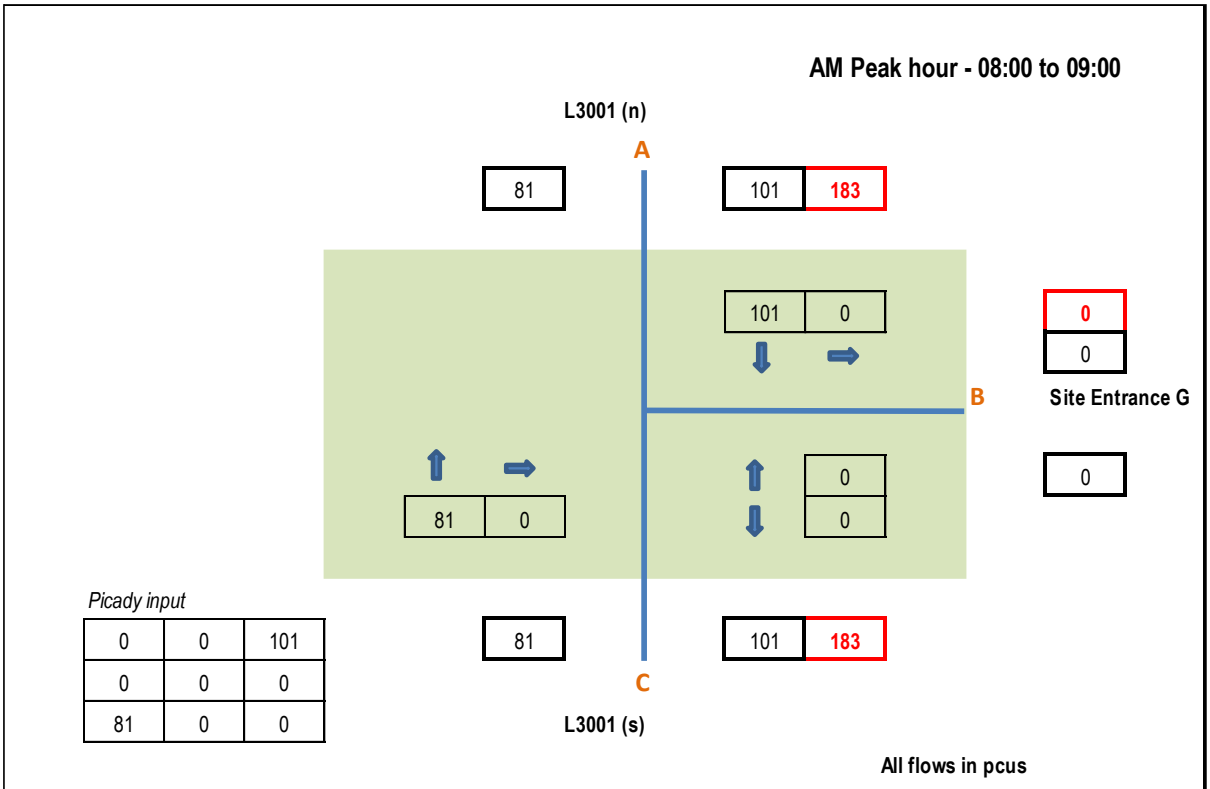


Figure A15-6-6a	Access junction 4, Site entrance G - L3001 Observed traffic flows, AM and PM peak hours, Year 2025
Ballydermot Wind Farm - 19/06/2026	



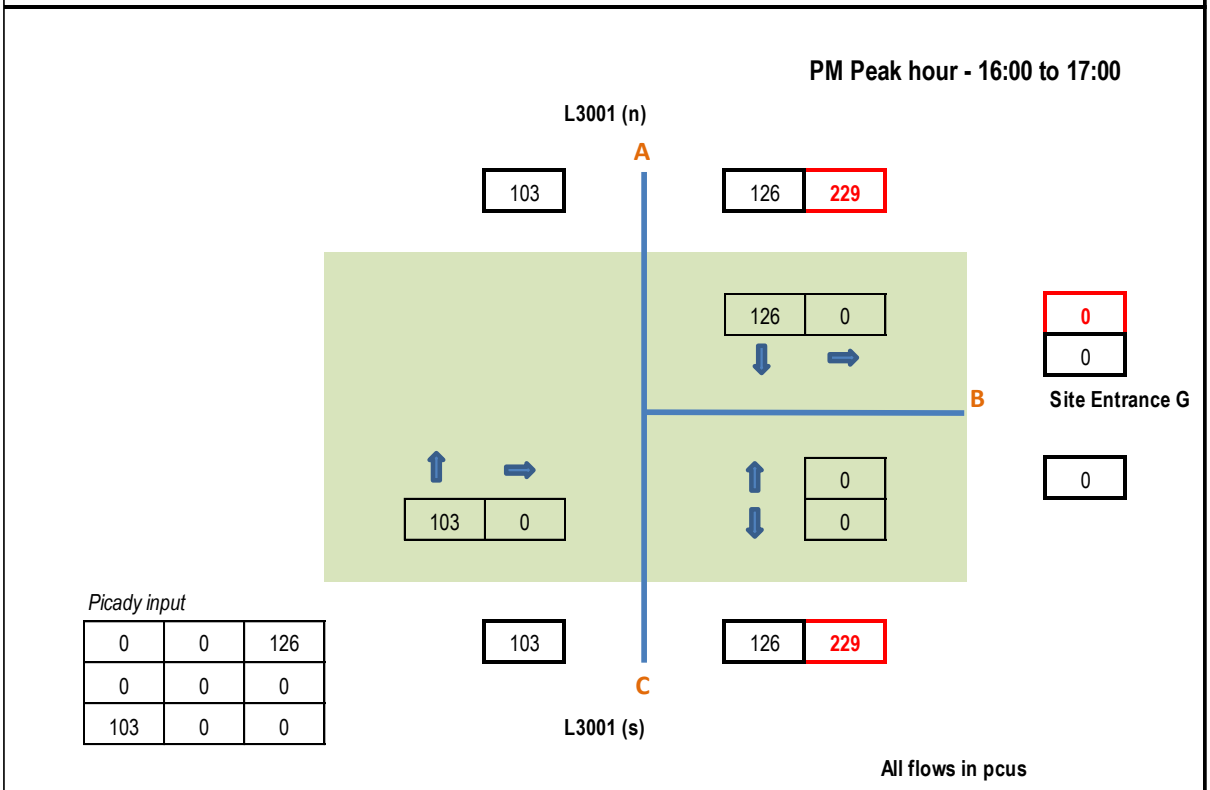
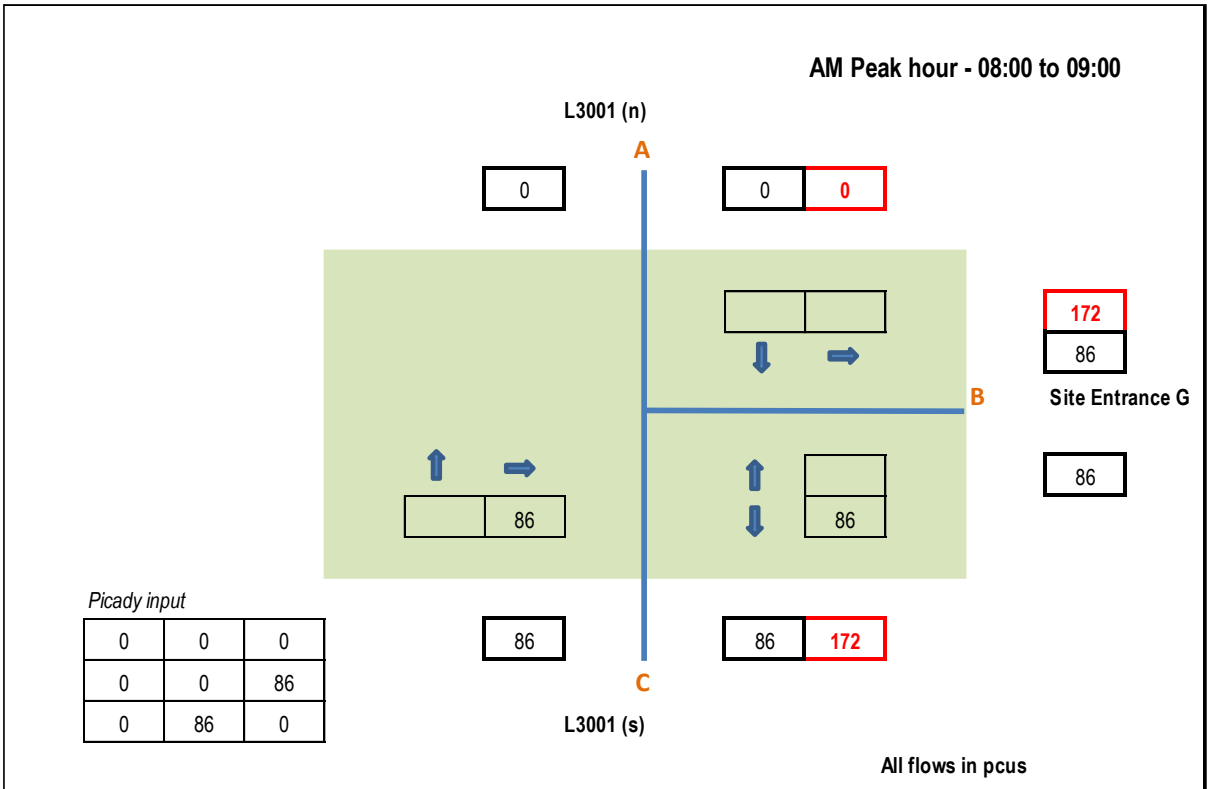


Figure A15-6-6b	Access junction 4, Site entrance G - L3001 Background traffic flows, AM and PM peak hours, Year 2032
Ballydermot Wind Farm - 19/06/2026	



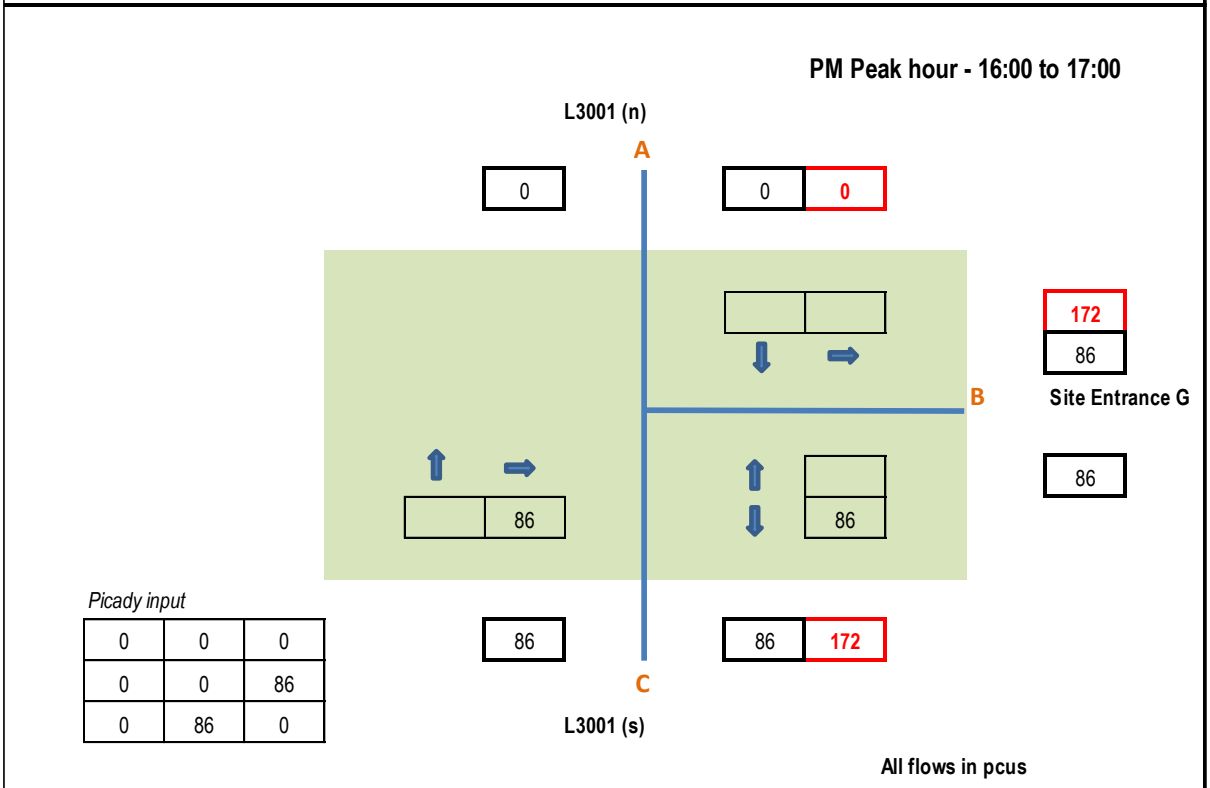
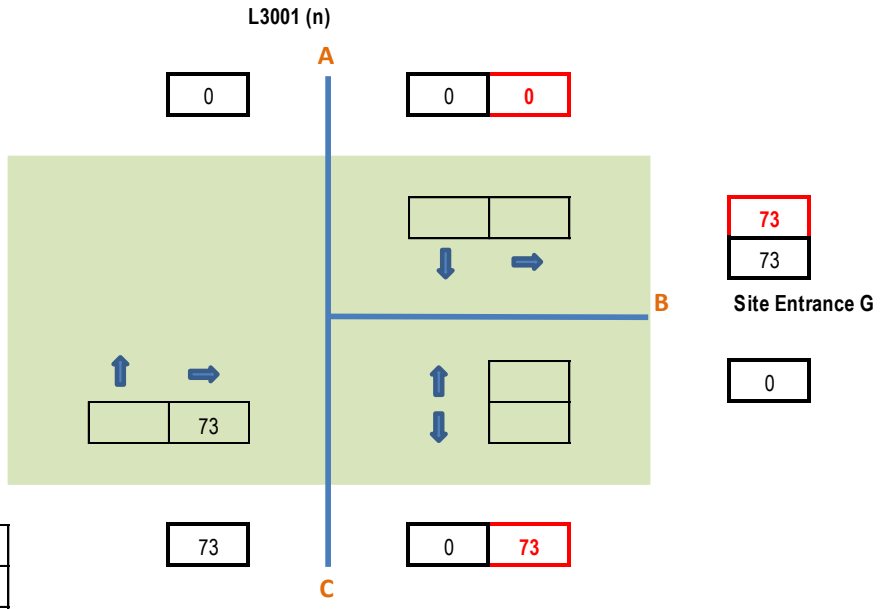


Figure A15-6-6c	Access junction 4, Site entrance G - L3001 Development traffic flows (HGV pcus), AM and PM peak hours
Ballydermot Wind Farm - 19/06/2026	

AM Peak hour - 08:00 to 09:00

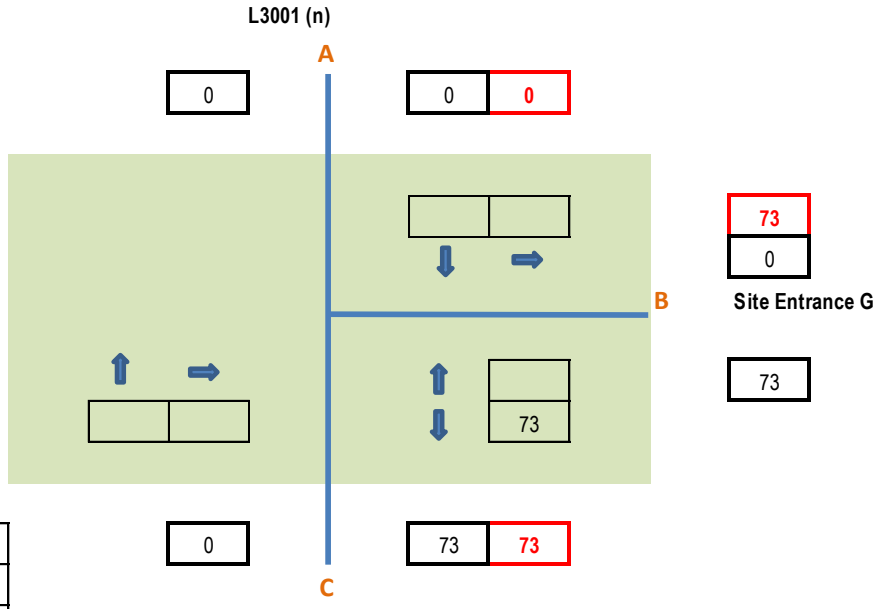


Picady input

0	0	0
0	0	0
0	73	0

All flows in pcus

PM Peak hour - 16:00 to 17:00



Picady input

0	0	0
0	0	73
0	0	0

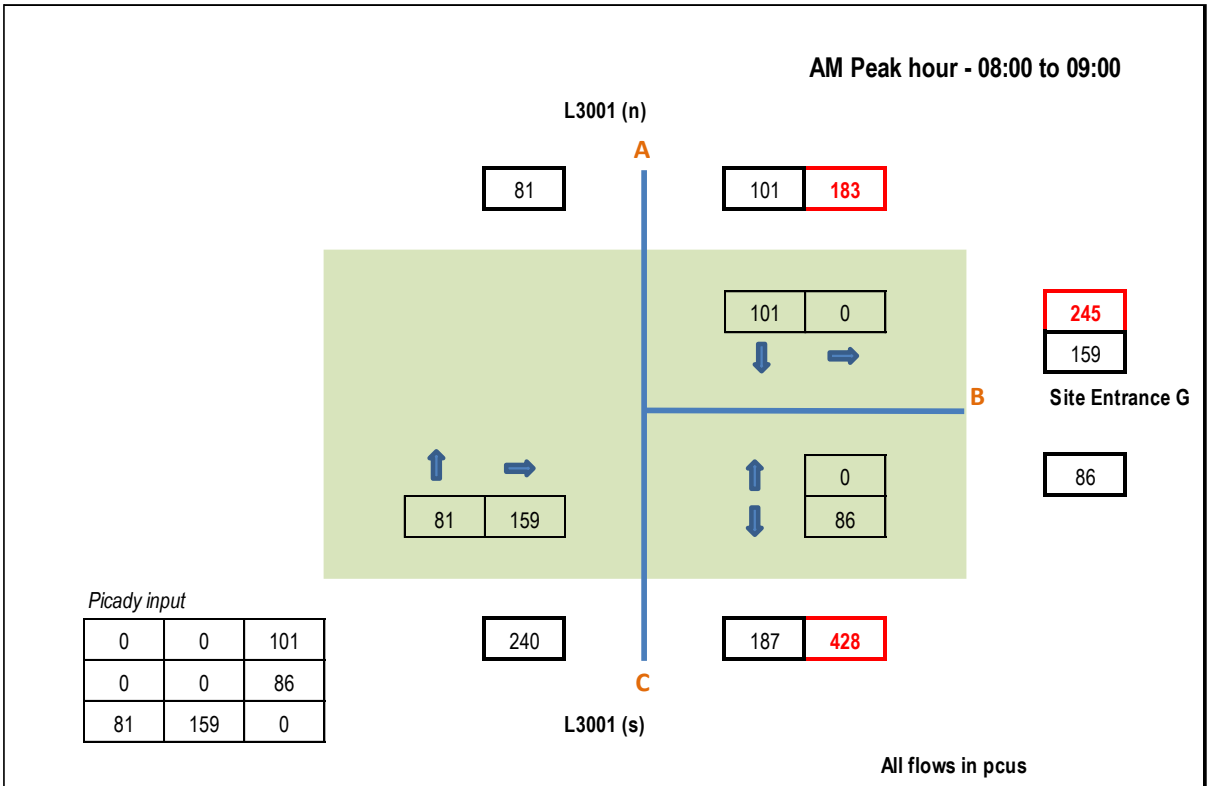
All flows in pcus

Figure A15-6-6d

Access junction 4, Site entrance G - L3001

Development traffic flows (staff cars), AM and PM peak hours

Ballydermot Wind Farm - 19/06/2026



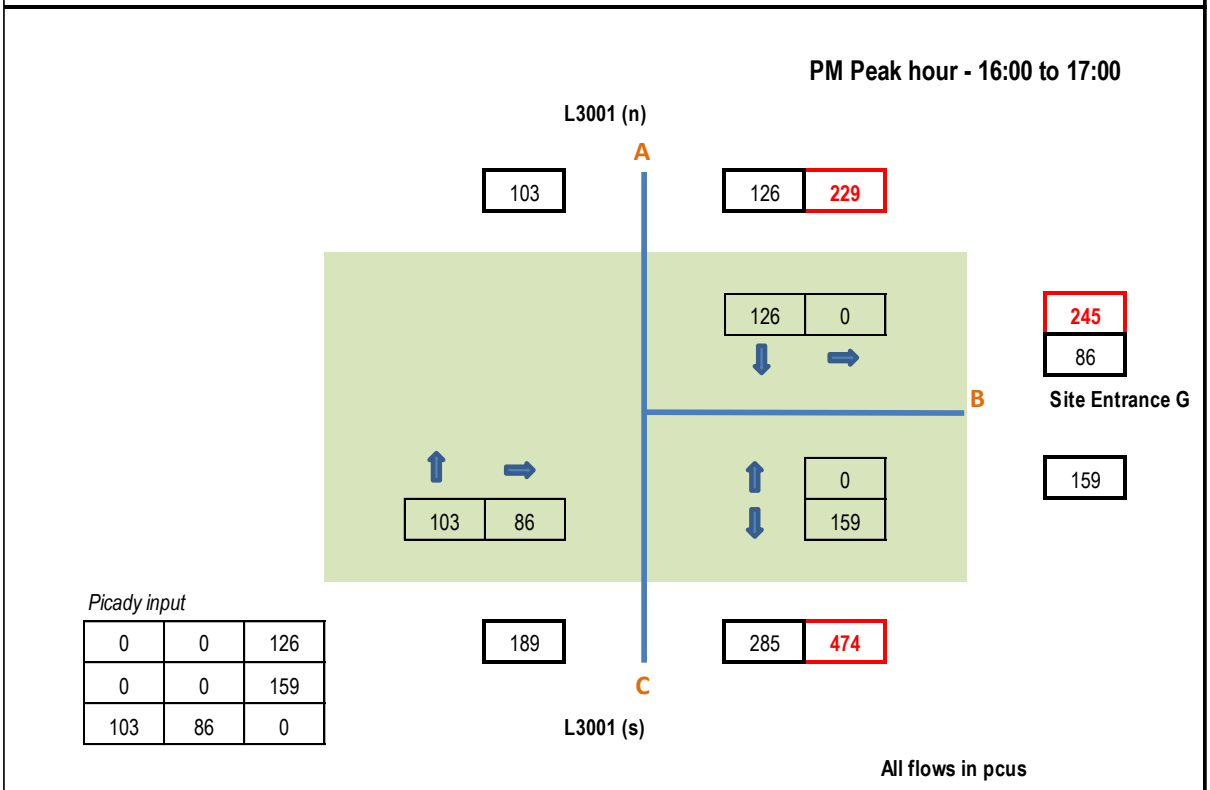
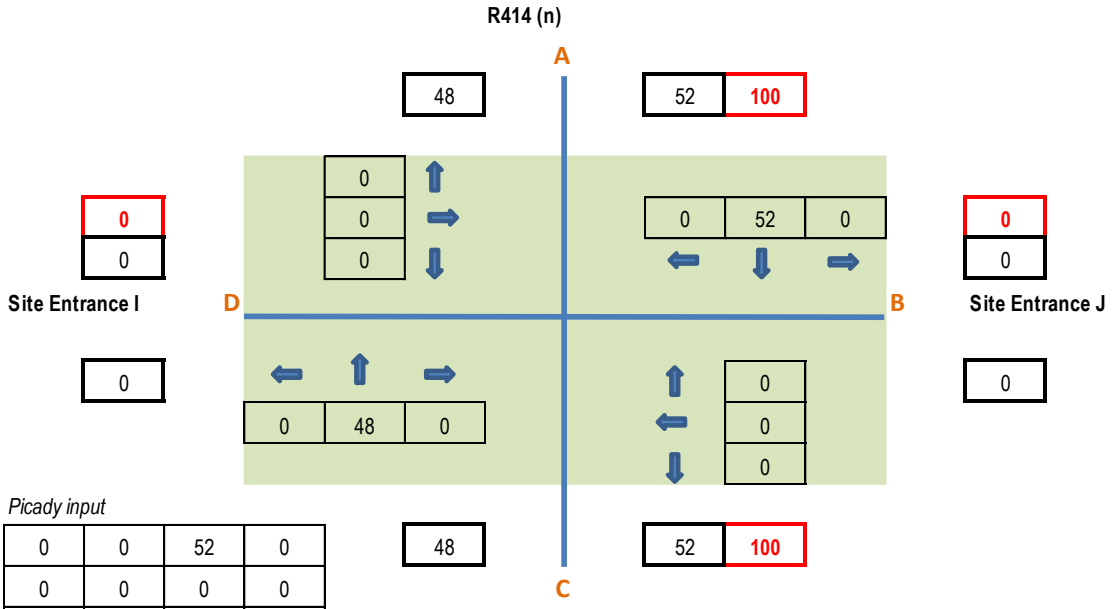


Figure A15-6-6e	Access junction 4, Site entrance G - L3001 With construction traffic flows, AM and PM peak hours, Year 2032
Ballydermot Wind Farm - 19/06/2026	

AM Peak hour - 08:00 to 09:00

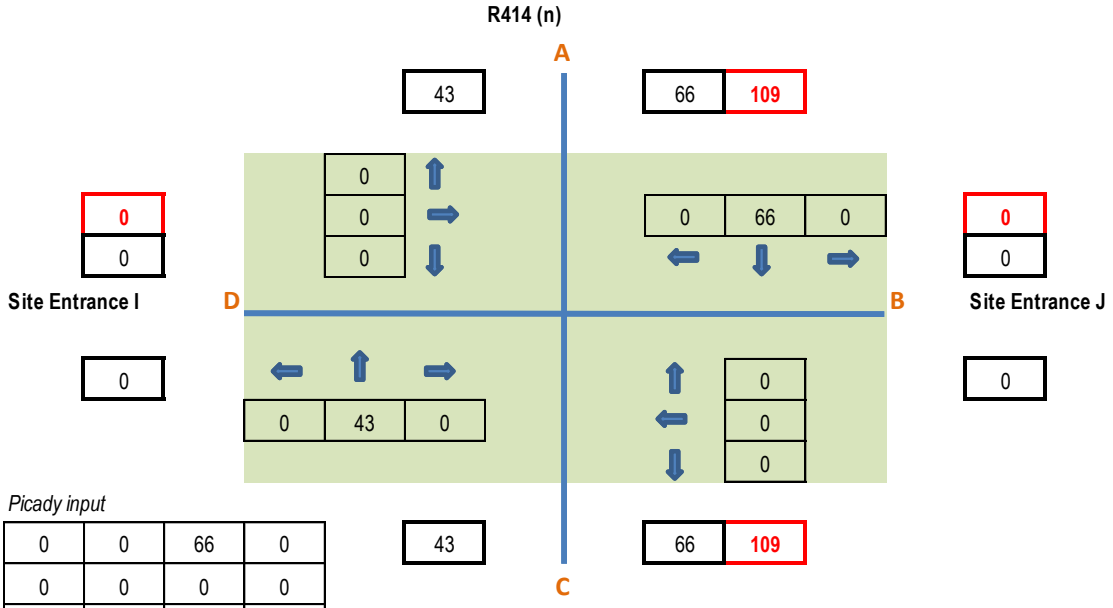


Picady input

0	0	52	0
0	0	0	0
48	0	0	0
0	0	0	0

All flows in pcus

PM Peak hour - 15:00 to 16:00



Picady input

0	0	66	0
0	0	0	0
43	0	0	0
0	0	0	0

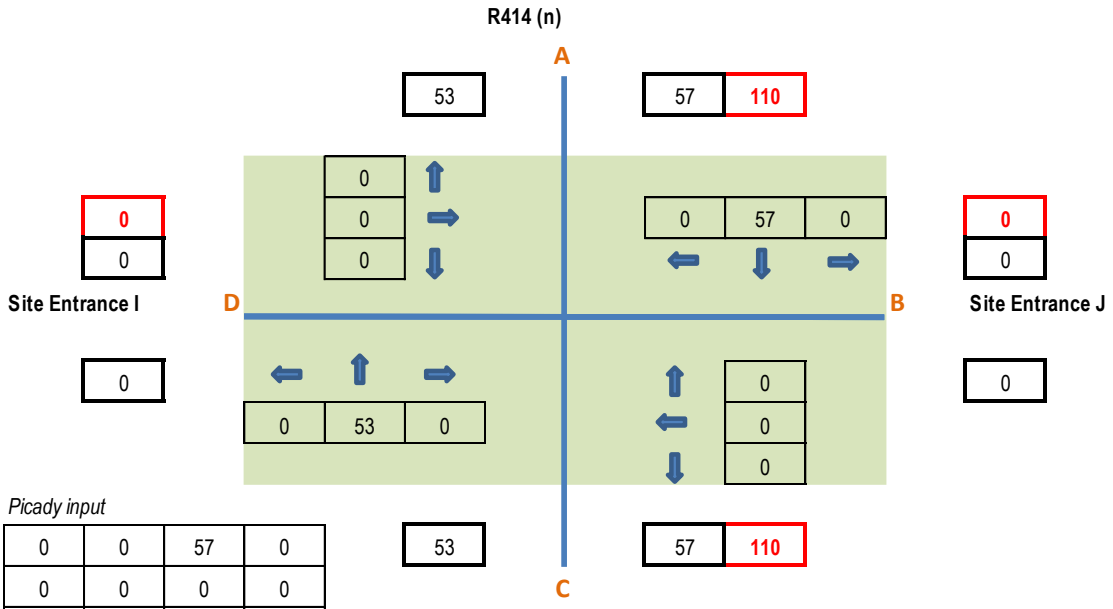
All flows in pcus

Figure A15-6-7a

Access junction 5, Site entrances I & J - R414

Observed traffic flows, AM and PM peak hours, Year 2025

AM Peak hour - 08:00 to 09:00

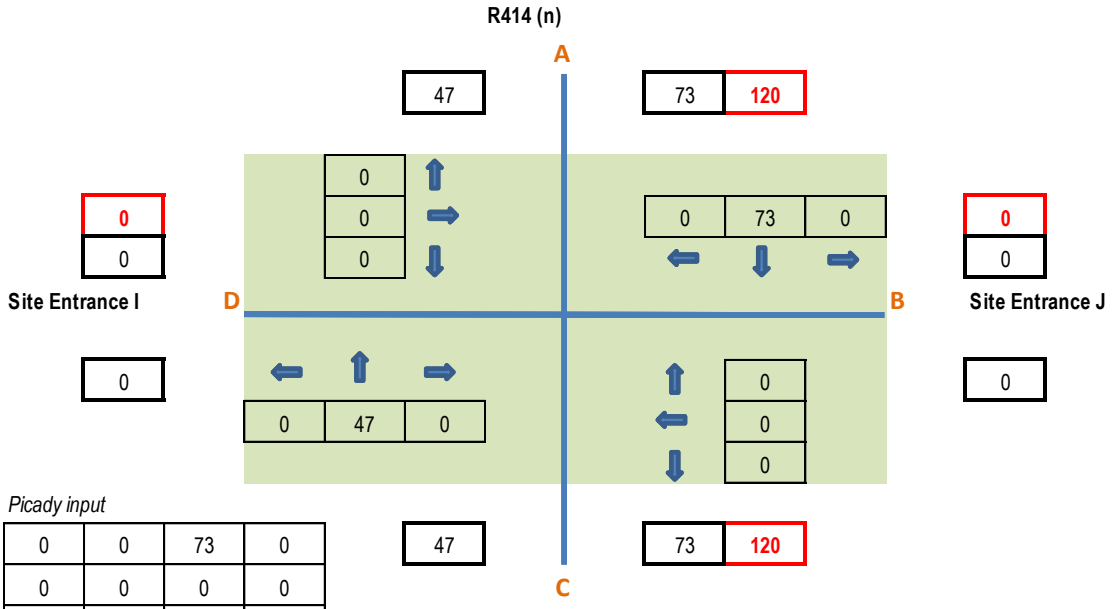


Picady input

0	0	57	0
0	0	0	0
53	0	0	0
0	0	0	0

All flows in pcus

PM Peak hour - 15:00 to 16:00



Picady input

0	0	73	0
0	0	0	0
47	0	0	0
0	0	0	0

All flows in pcus

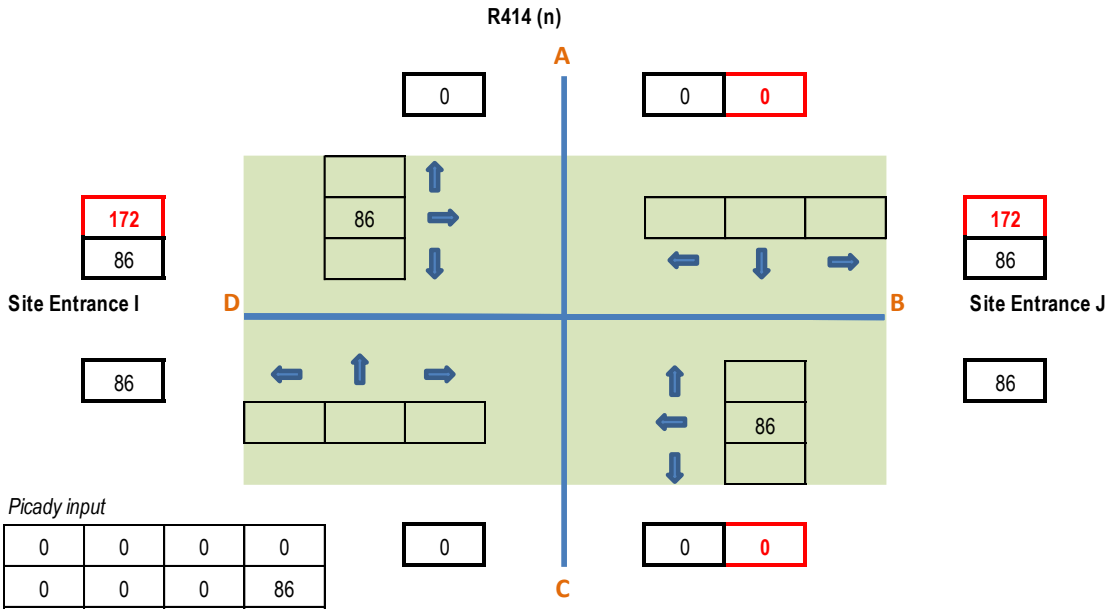
Figure A15-6-7b

Access junction 5, Site entrances I & J - R414

Background traffic flows, AM and PM peak hours, Year 2032

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

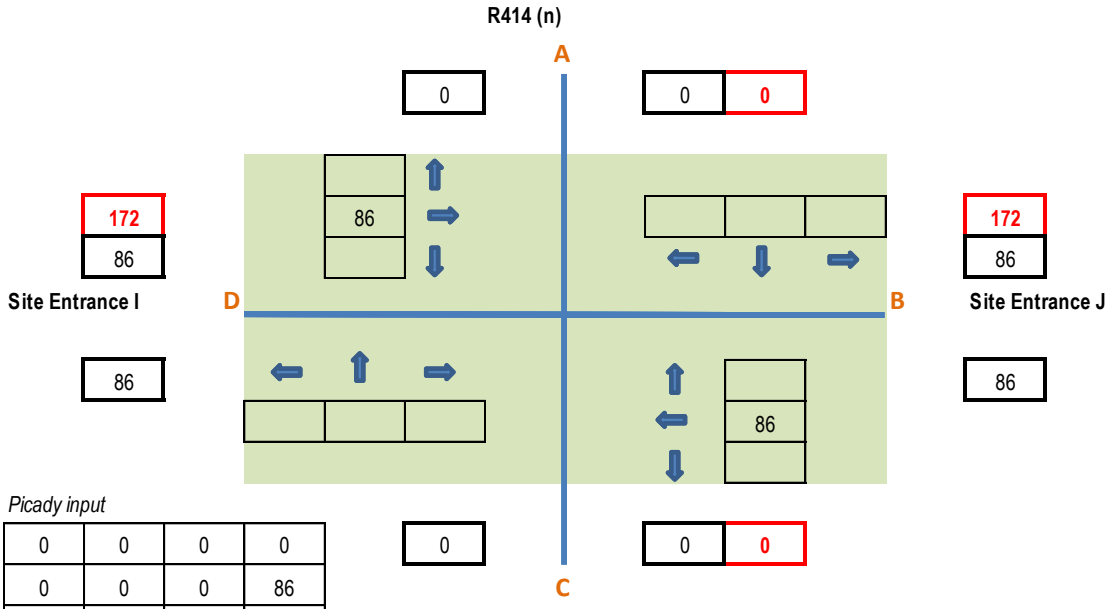


Picady input

0	0	0	0
0	0	0	86
0	0	0	0
0	86	0	0

All flows in pcus

PM Peak hour - 15:00 to 16:00



Picady input

0	0	0	0
0	0	0	86
0	0	0	0
0	86	0	0

All flows in pcus

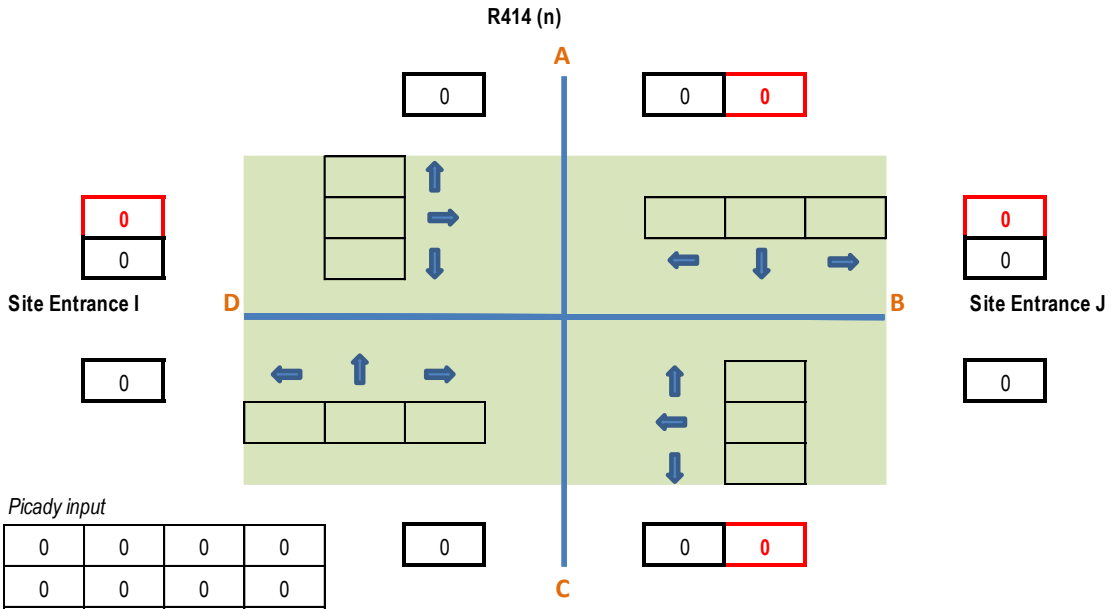
Figure A15-6-7c

Access junction 5, Site entrances I & J - R414

Development traffic flows (HGV pcus), AM and PM peak hours

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

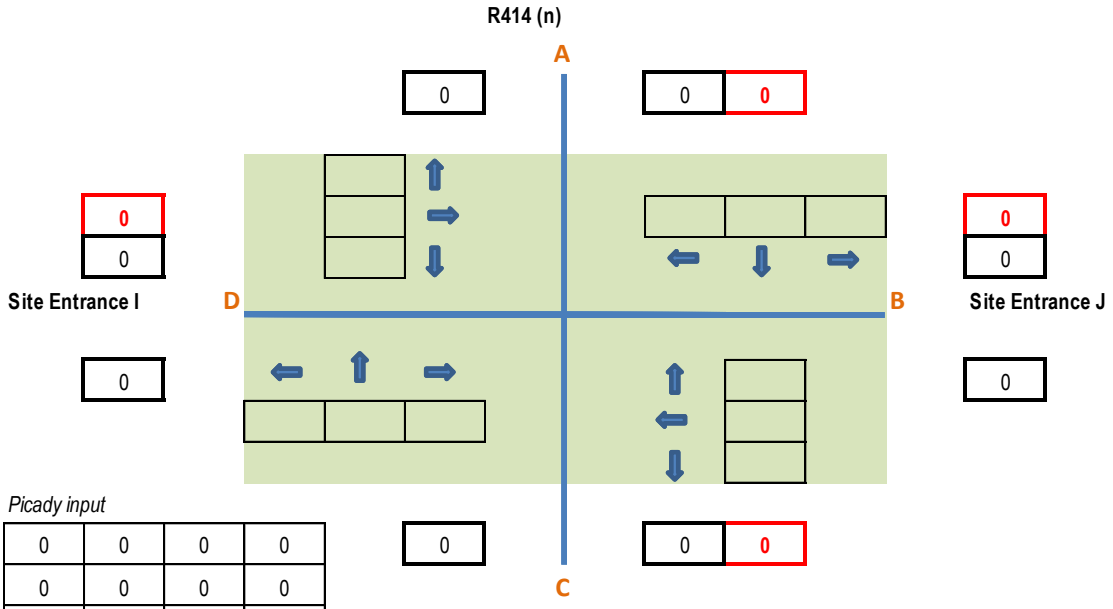


Picady input

0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

All flows in pcus

PM Peak hour - 15:00 to 16:00



Picady input

0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

All flows in pcus

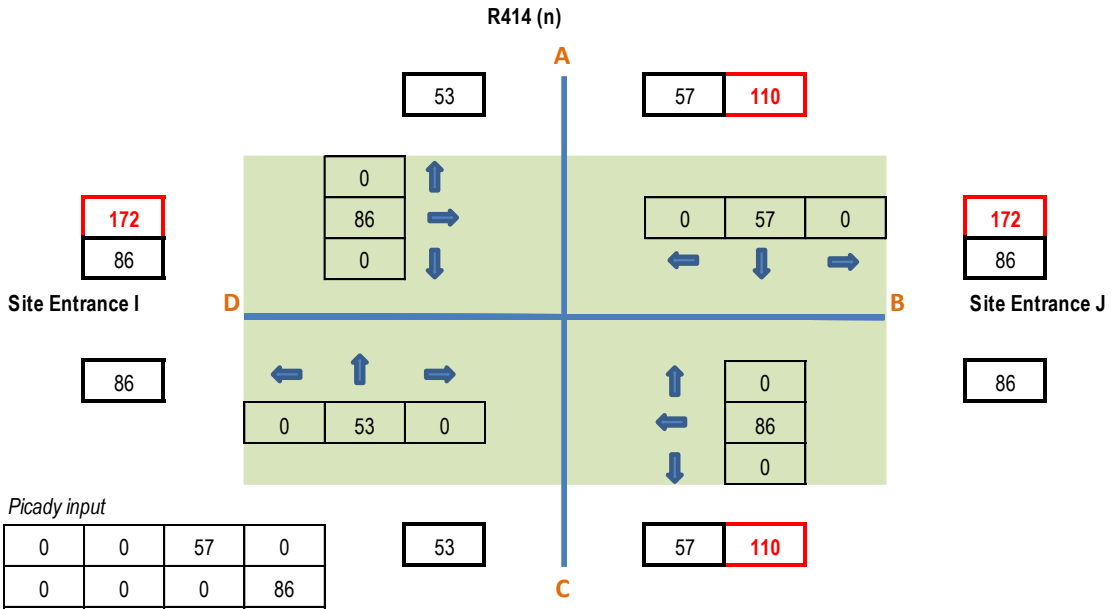
Figure A15-6-7d

Access junction 5, Site entrances I & J - R414

Development traffic flows (staff cars), AM and PM peak hours

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

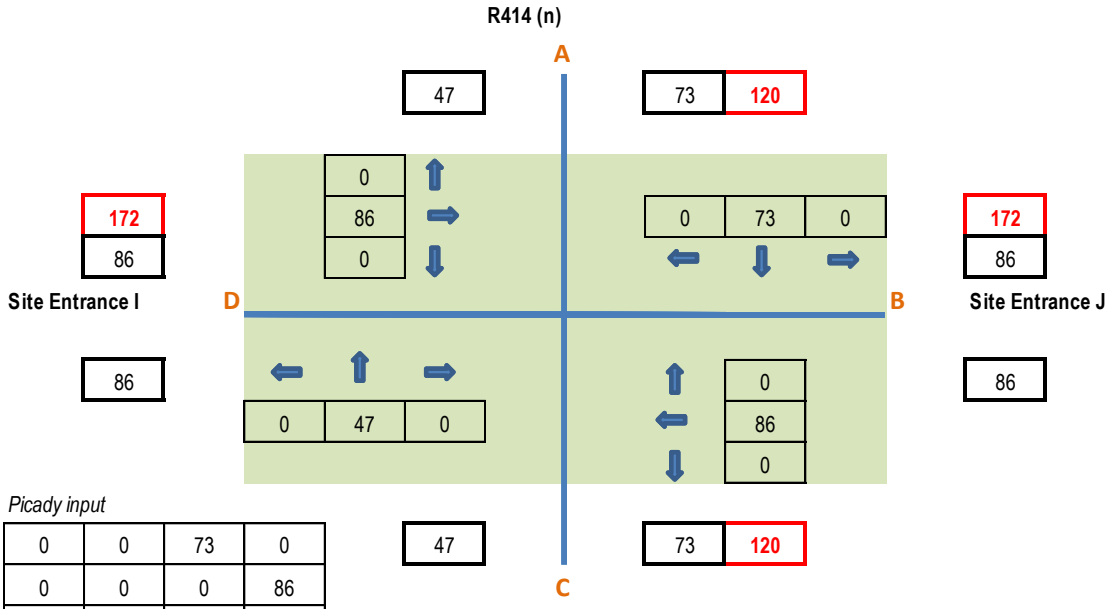


Picady input

0	0	57	0
0	0	0	86
53	0	0	0
0	86	0	0

All flows in pcus

PM Peak hour - 15:00 to 16:00



Picady input

0	0	73	0
0	0	0	86
47	0	0	0
0	86	0	0

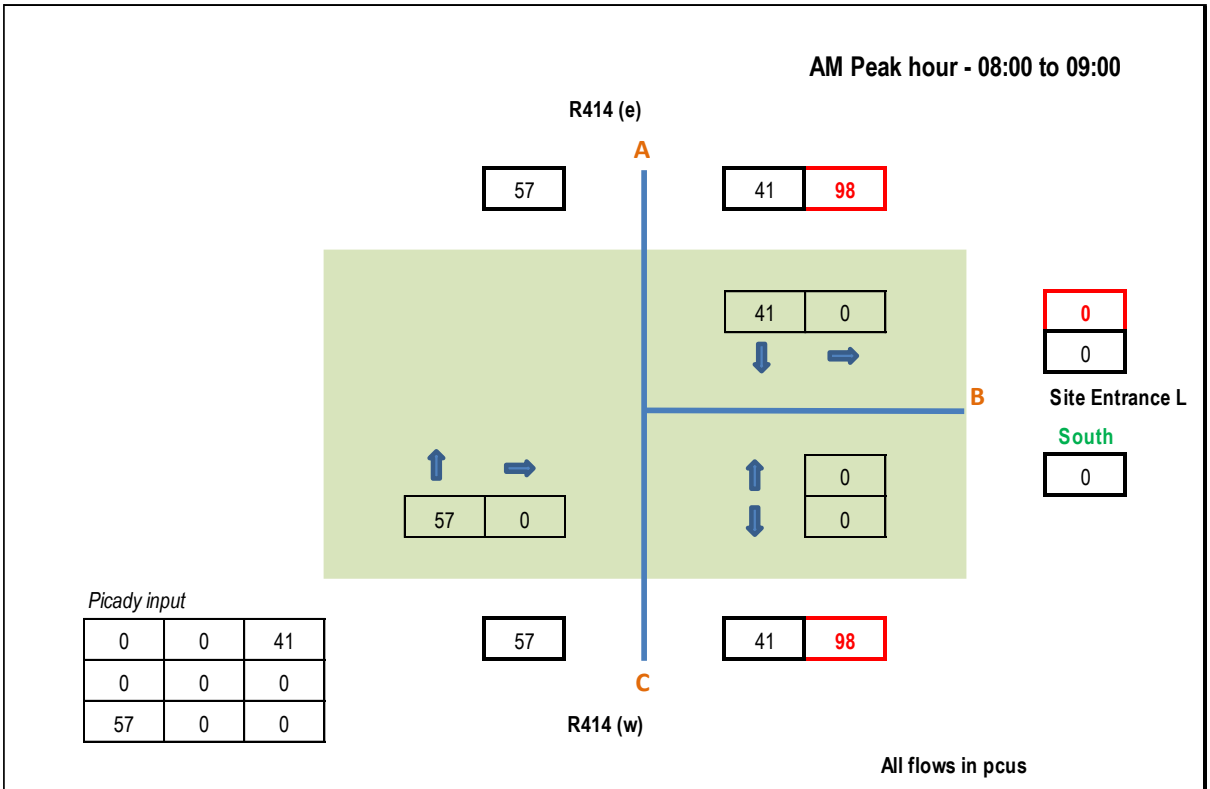
All flows in pcus

Figure A15-6-7e

Access junction 5, Site entrances I & J - R414

With construction traffic flows, AM and PM peak hours, Year 2032

Ballydermot Wind Farm - 19/06/2026



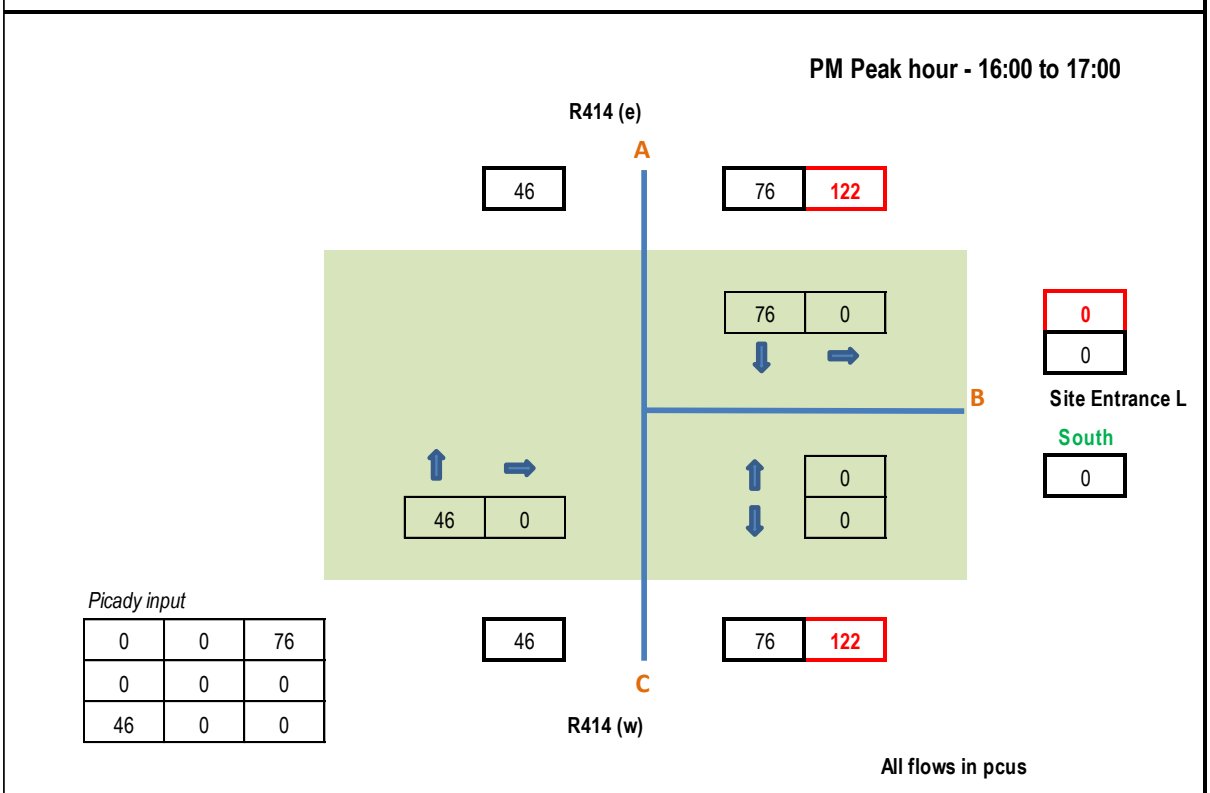
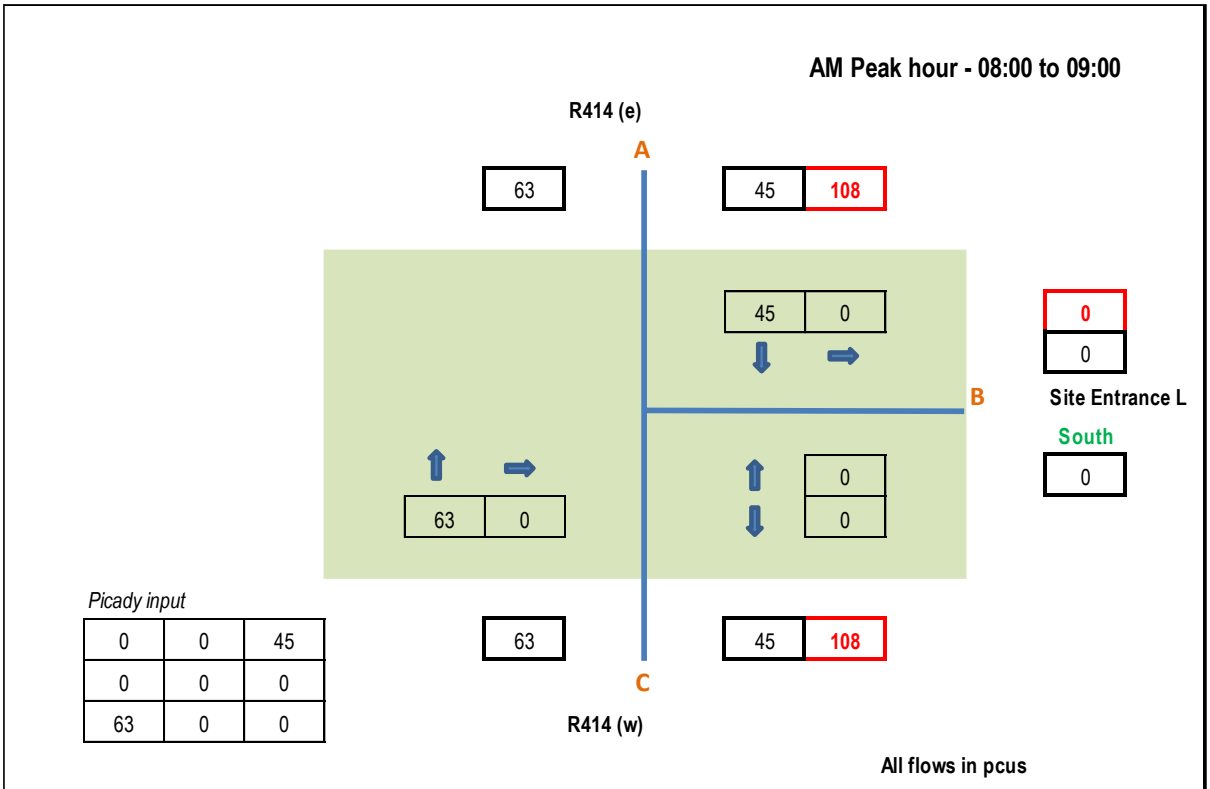


Figure A15-6-8a Access junction 6, Site entrance L - R414

Observed traffic flows, AM and PM peak hours, Year 2025



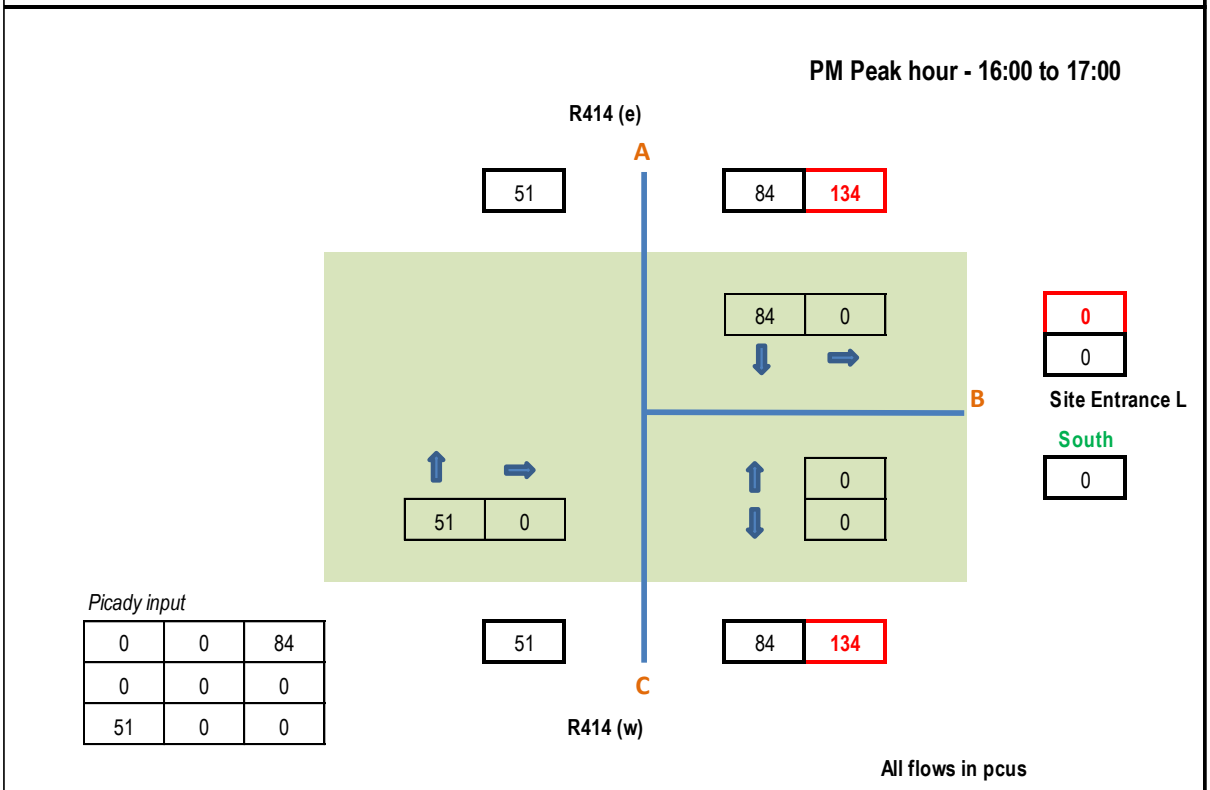


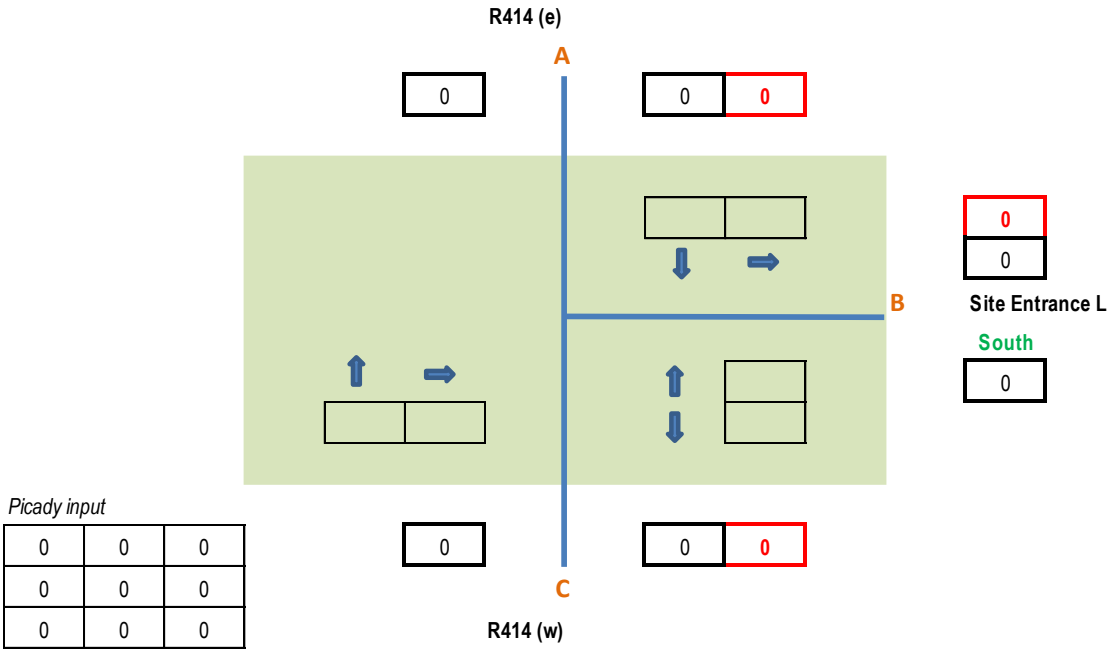
Figure A15-6-8b

Access junction 6, Site entrance L - R414

Background traffic flows, AM and PM peak hours, Year 2032

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

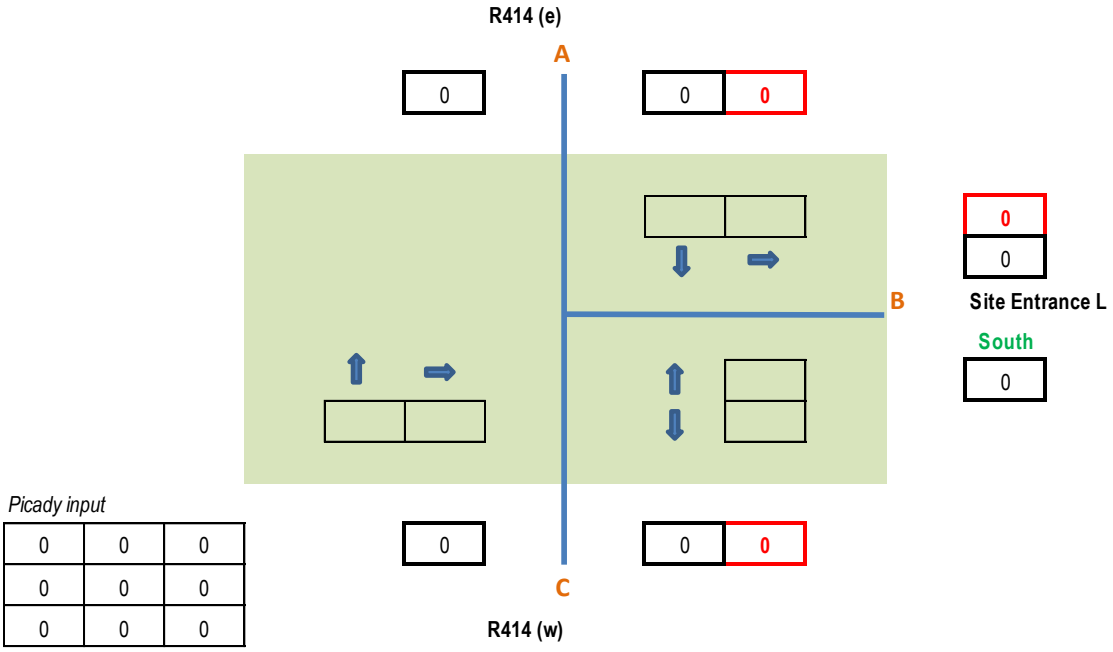


Picady input

0	0	0
0	0	0
0	0	0

All flows in pcus

PM Peak hour - 16:00 to 17:00



Picady input

0	0	0
0	0	0
0	0	0

All flows in pcus

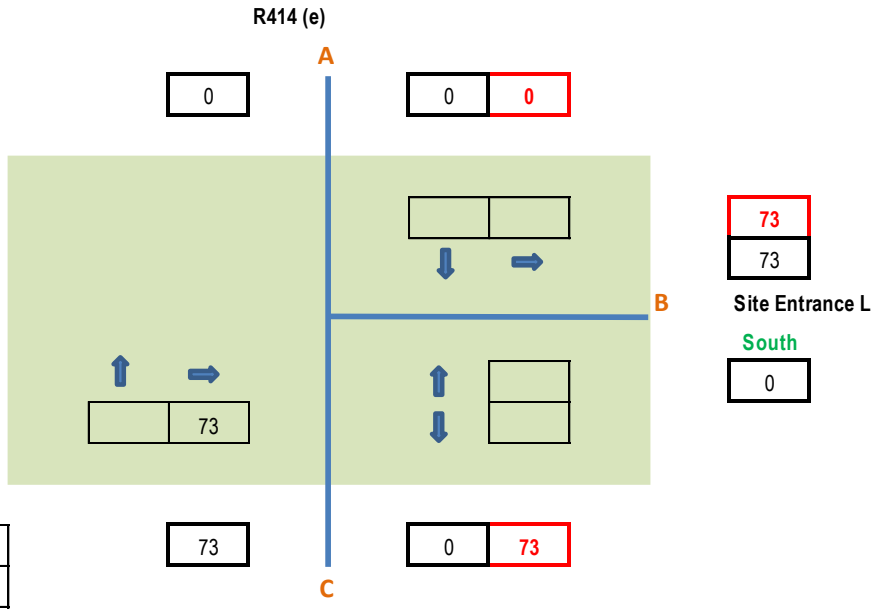
Figure A15-6-8c

Access junction 6, Site entrance L - R414

Development traffic flows (HGV pcus), AM and PM peak hours

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

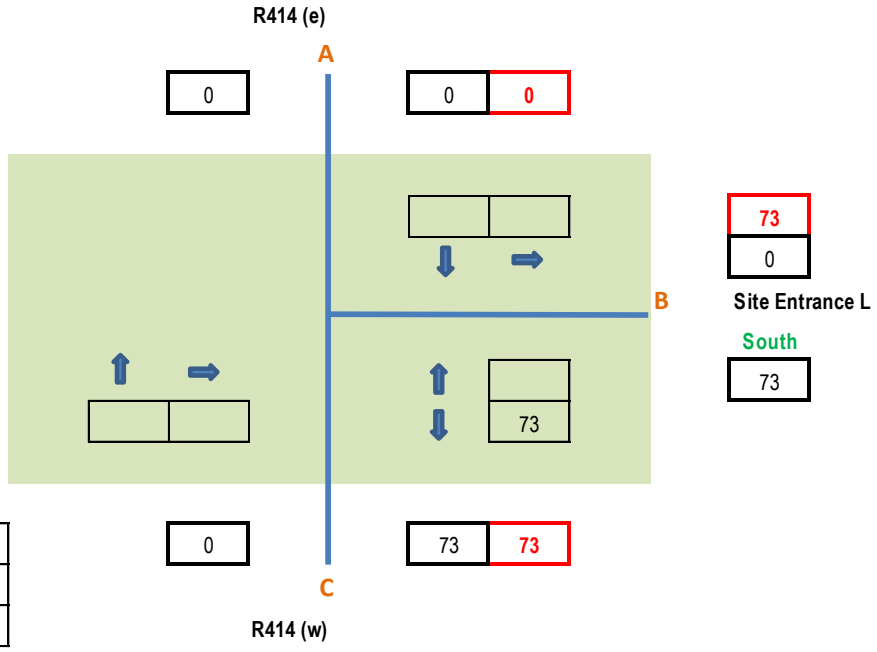


Picady input

0	0	0
0	0	0
0	73	0

All flows in pcus

PM Peak hour - 16:00 to 17:00

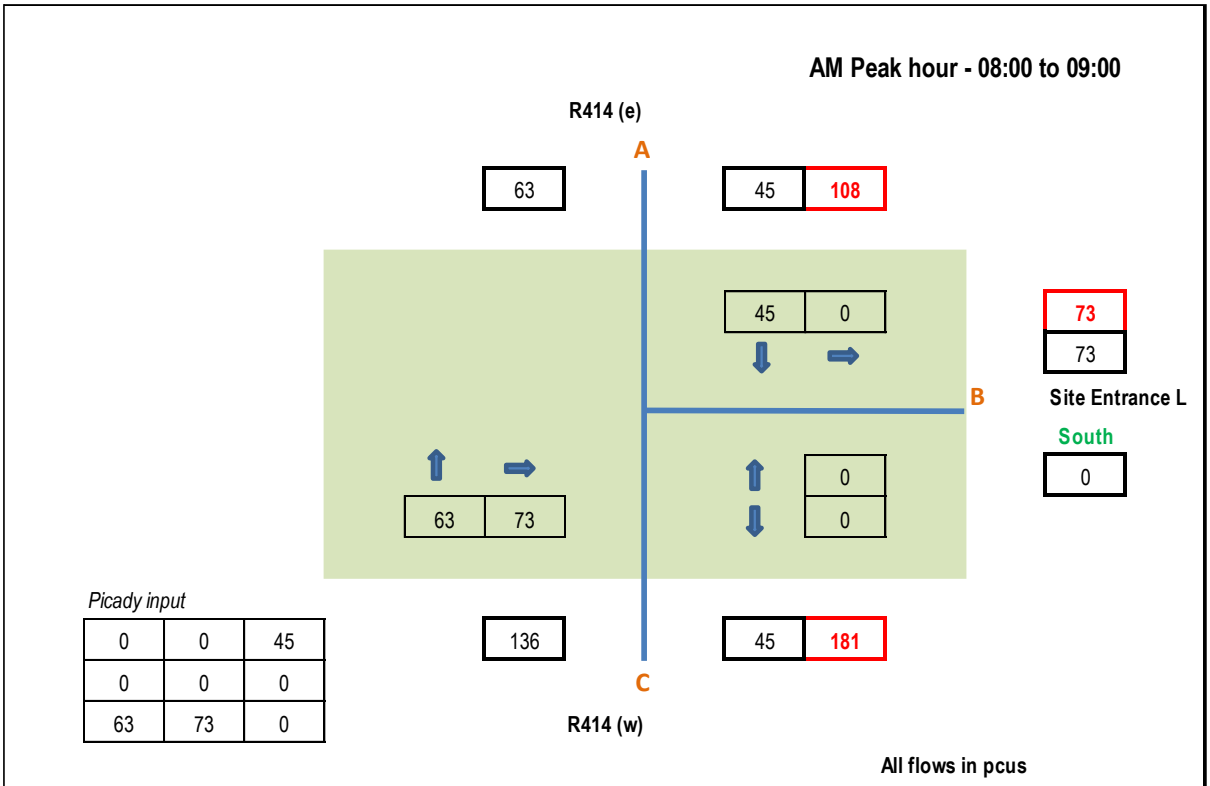


Picady input

0	0	0
0	0	73
0	0	0

All flows in pcus

Figure A15-6-8d	Access junction 6, Site entrance L - R414 Development traffic flows (staff cars), AM and PM peak hours
Ballydermot Wind Farm - 19/06/2026	



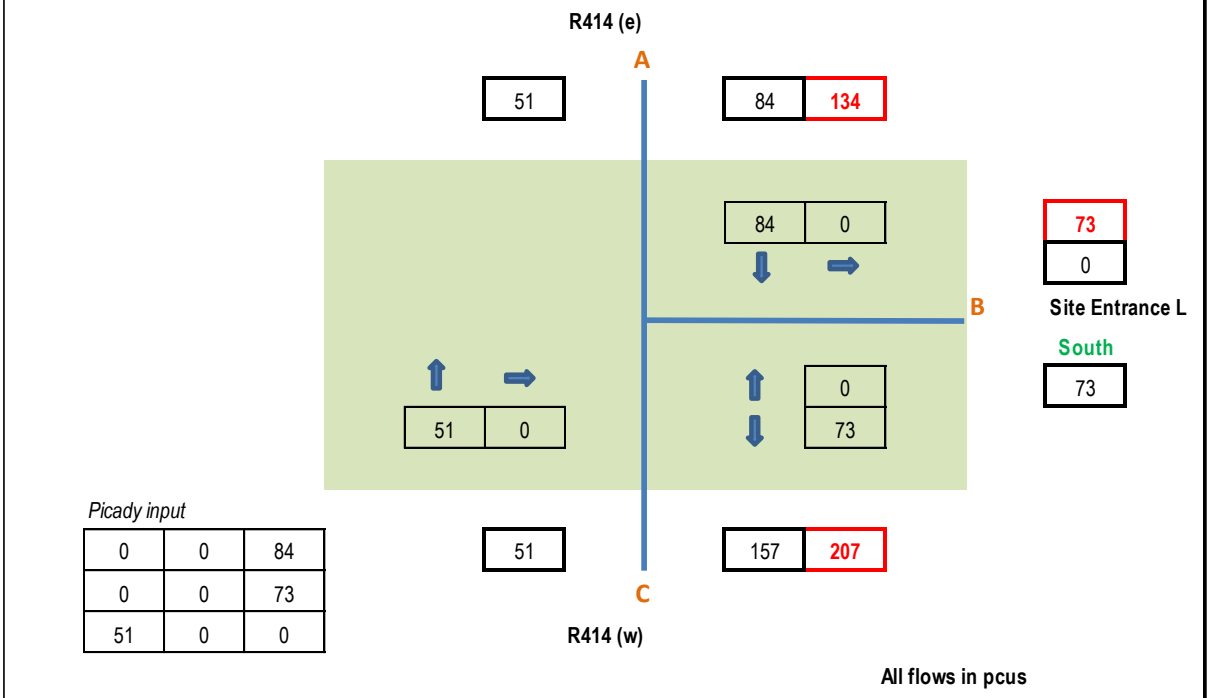
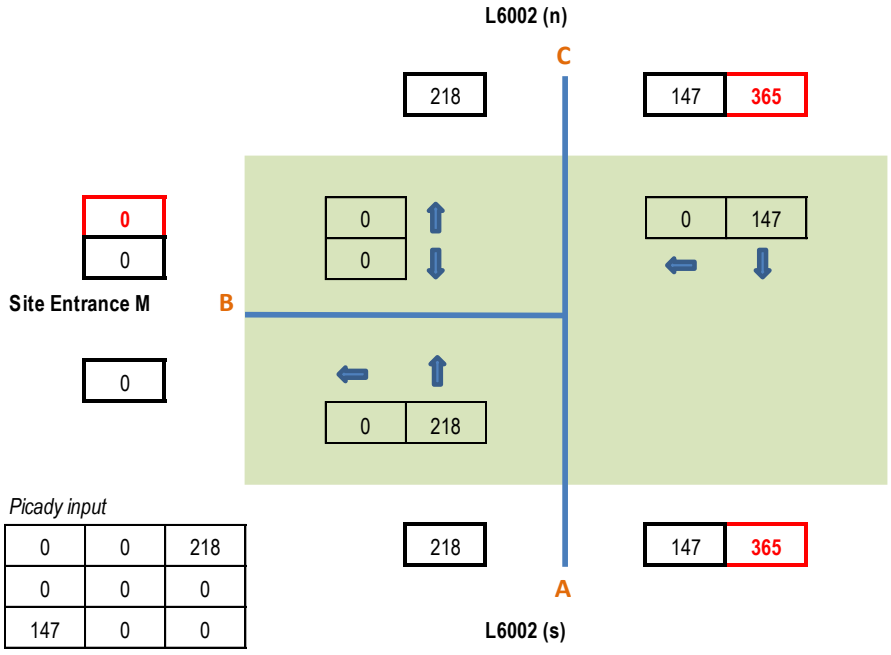


Figure A15-6-8e	Access junction 6, Site entrance L - R414 With construction traffic flows, AM and PM peak hours, Year 2032
Ballydermot Wind Farm - 19/06/2026	

AM Peak hour - 08:00 to 09:00

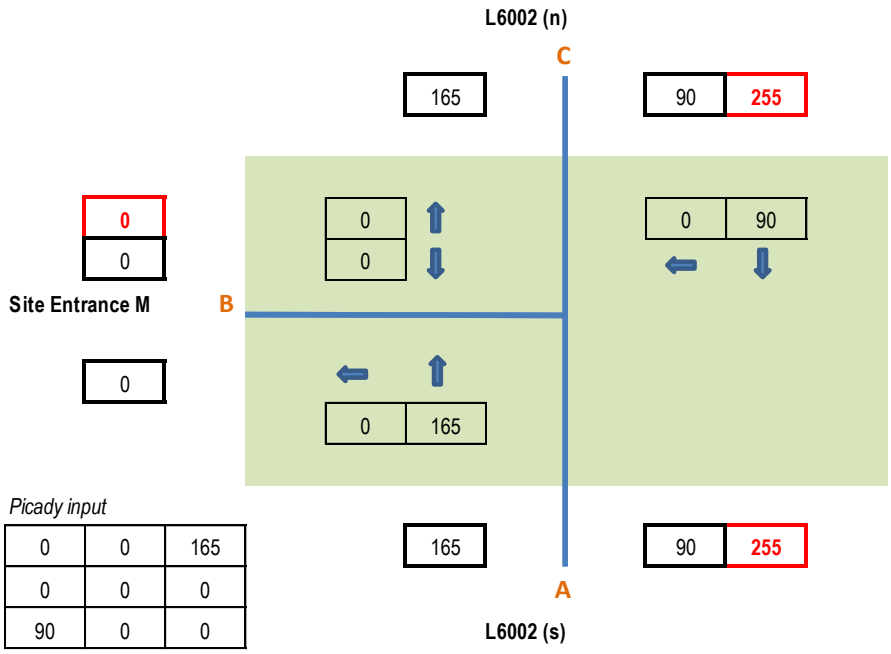


Picady input

0	0	218
0	0	0
147	0	0

All flows in pcus

PM Peak hour - 17:00 to 18:00



Picady input

0	0	165
0	0	0
90	0	0

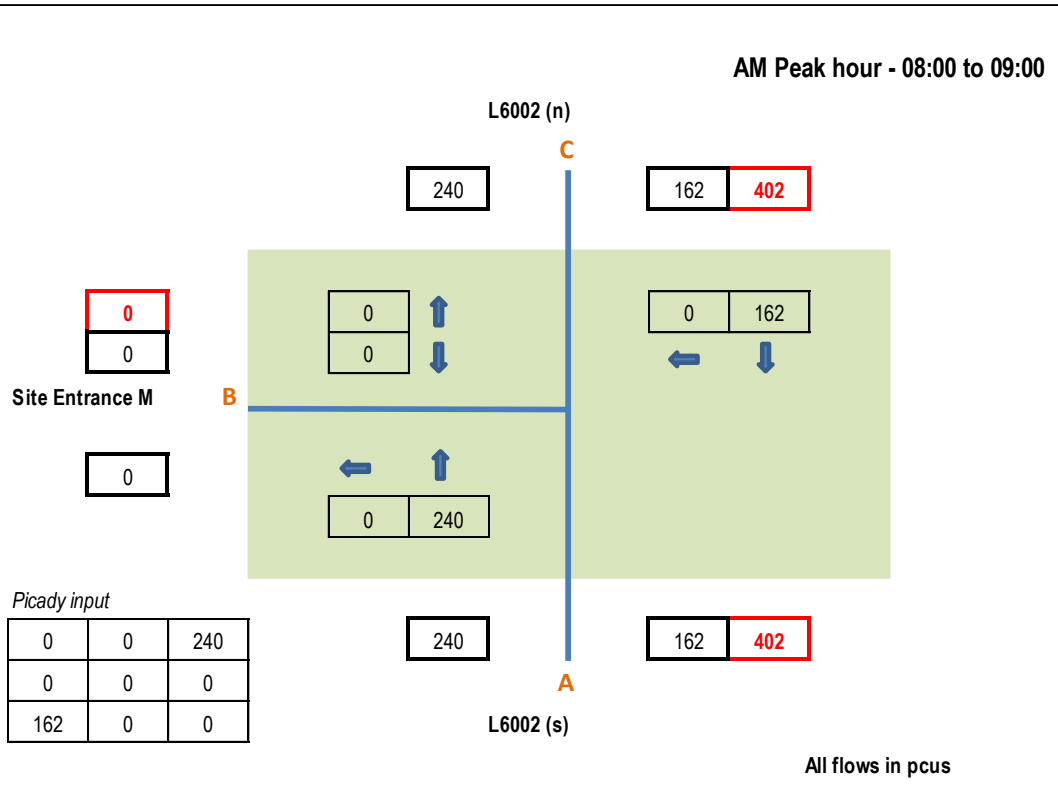
All flows in pcus

Figure A15-6-9a

Access junction 7, Site entrance M - L6002

Observed traffic flows, AM and PM peak hours, Year 2025

Ballydermot Wind Farm - 19/06/2026



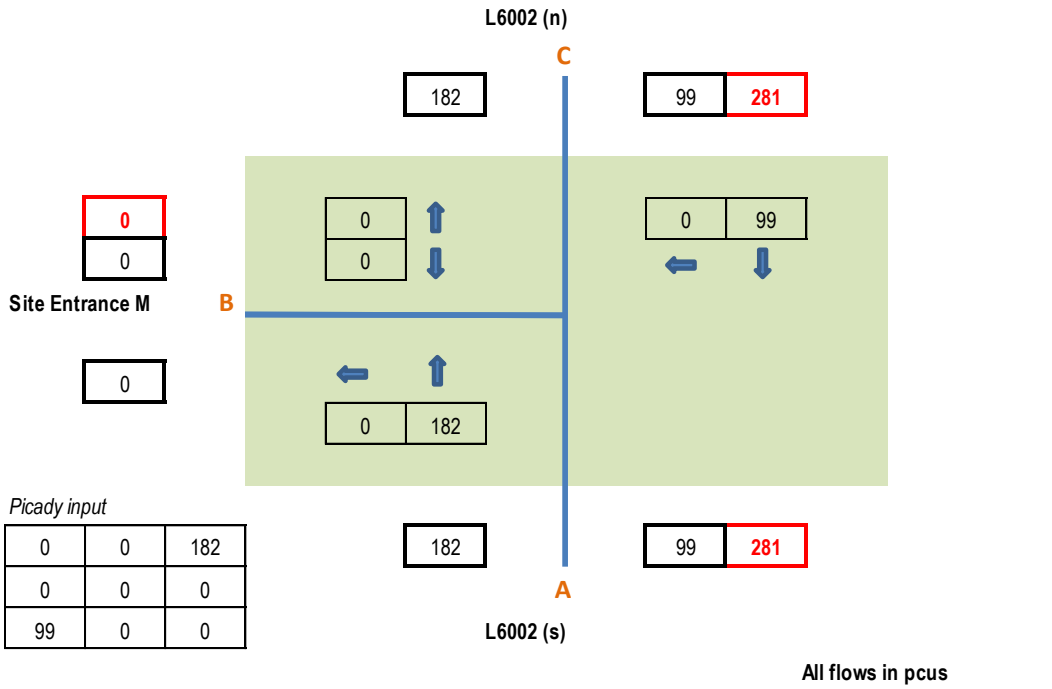
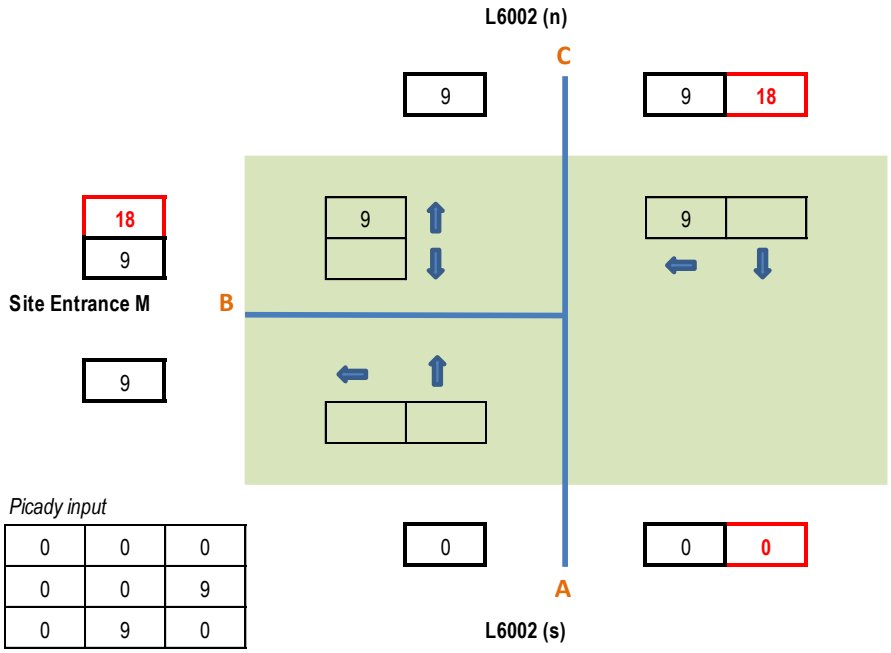


Figure A15-6-9b	Access junction 7, Site entrance M - L6002 Backgrown traffic flows, AM and PM peak hours, Year 2032
Ballydermot Wind Farm - 19/06/2026	

AM Peak hour - 08:00 to 09:00

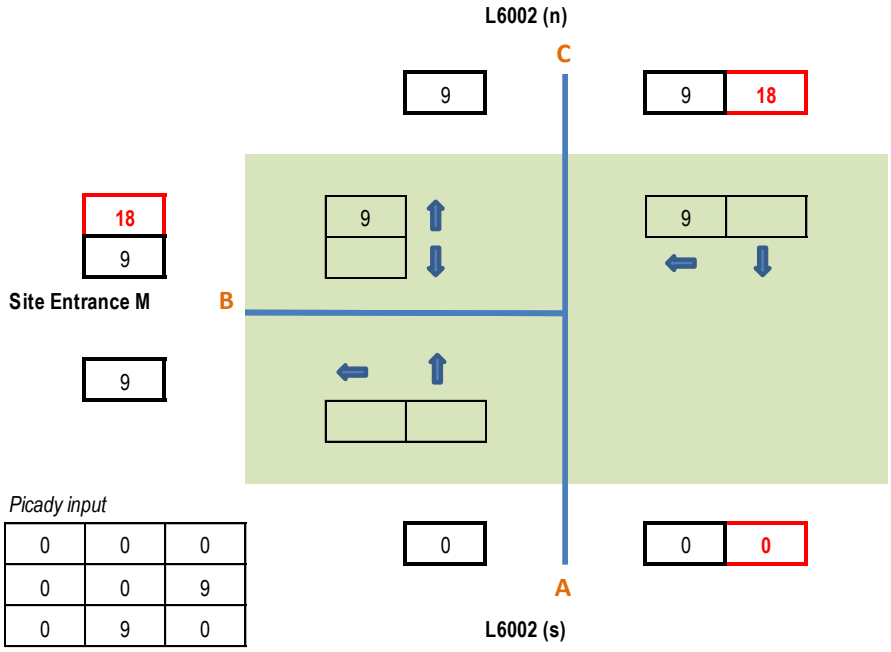


Picady input

0	0	0
0	0	9
0	9	0

All flows in pcus

PM Peak hour - 17:00 to 18:00



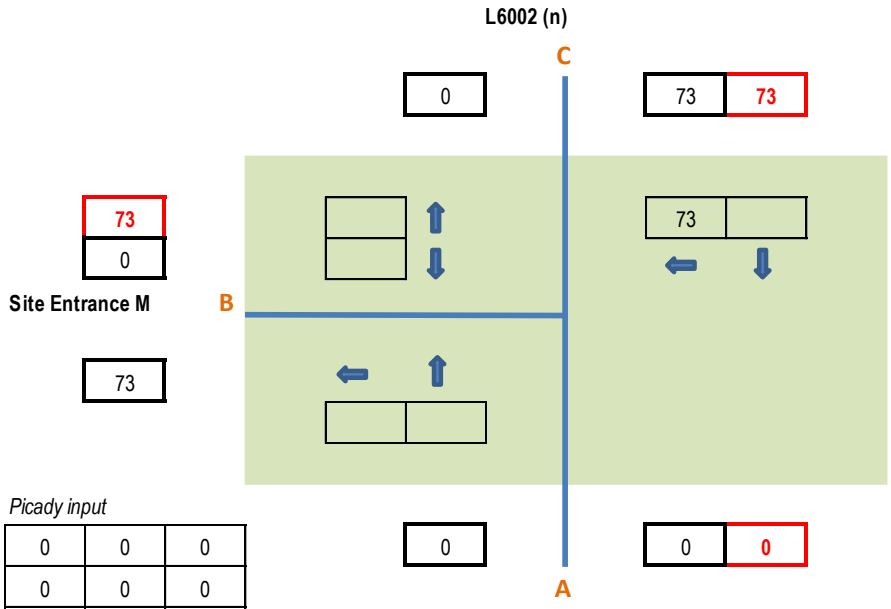
Picady input

0	0	0
0	0	9
0	9	0

All flows in pcus

Figure A15-6-9c	Access junction 7, Site entrance M - L6002 Development traffic flows (HGV pcus), AM and PM peak hours
Ballydermot Wind Farm - 19/06/2026	

AM Peak hour - 08:00 to 09:00

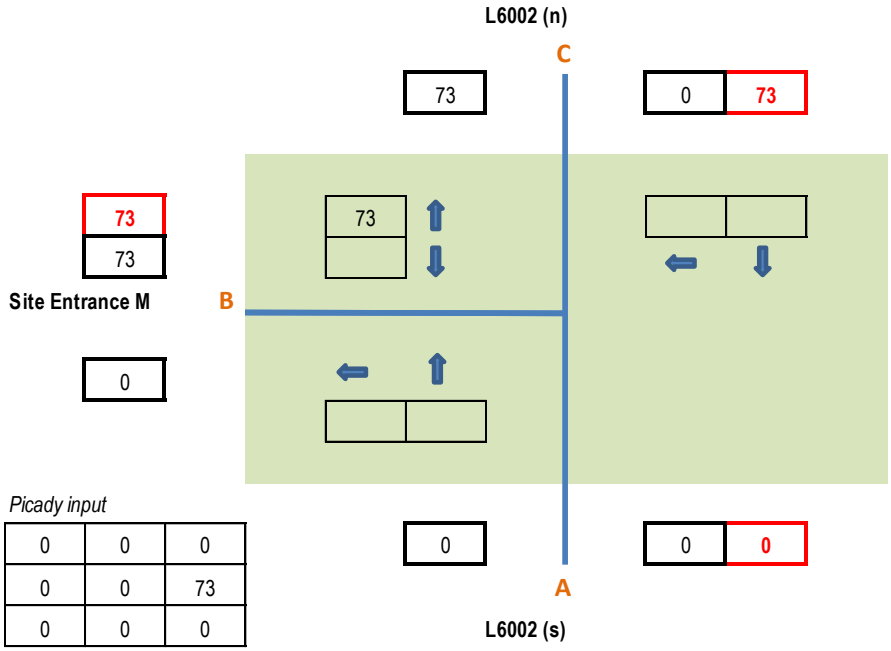


Picady input

0	0	0
0	0	0
0	73	0

All flows in pcus

PM Peak hour - 17:00 to 18:00

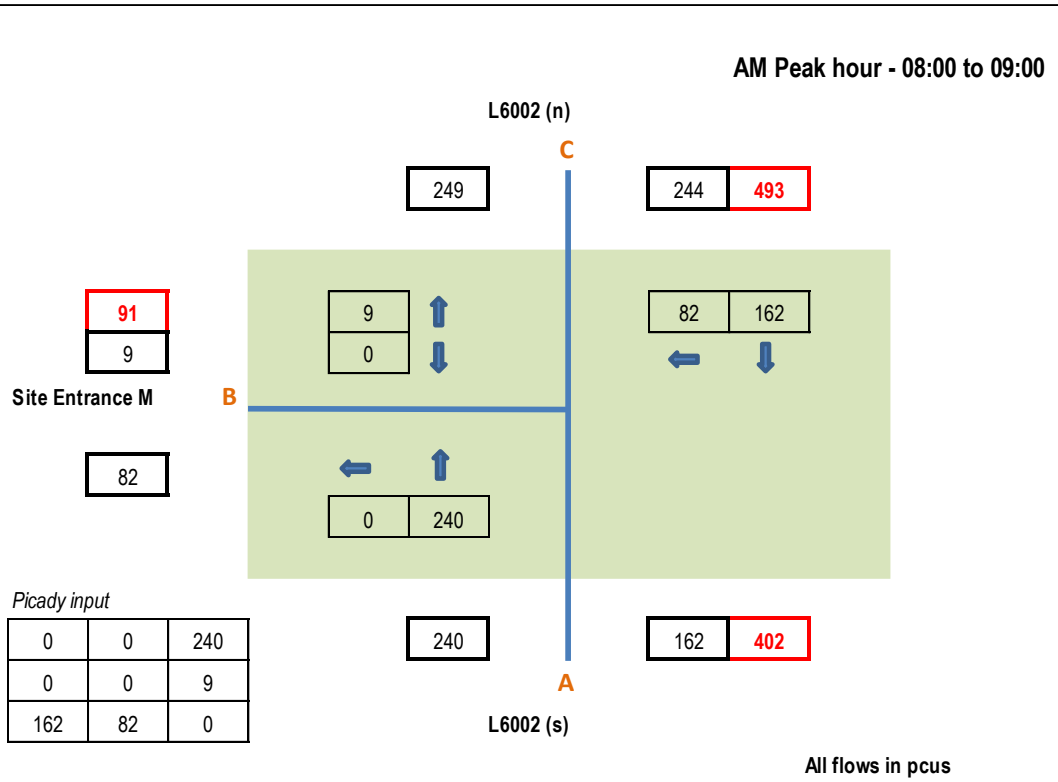


Picady input

0	0	0
0	0	73
0	0	0

All flows in pcus

Figure A15-6-9d	Access junction 7, Site entrance M - L6002 Development traffic flows (staff cars), AM and PM peak hours
Ballydermot Wind Farm - 19/06/2026	



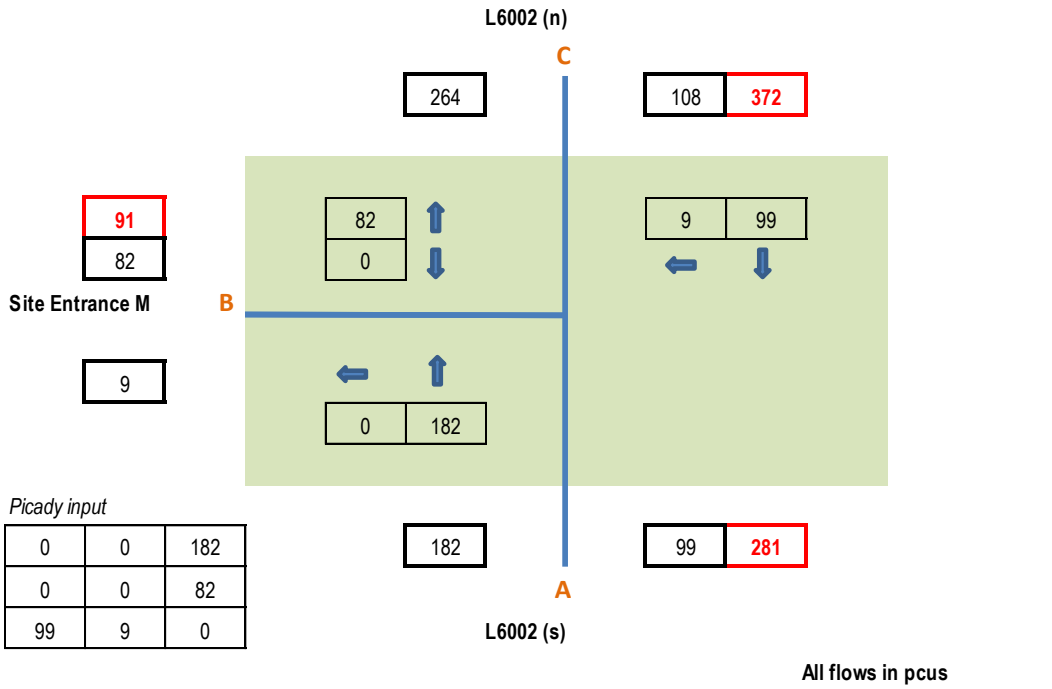
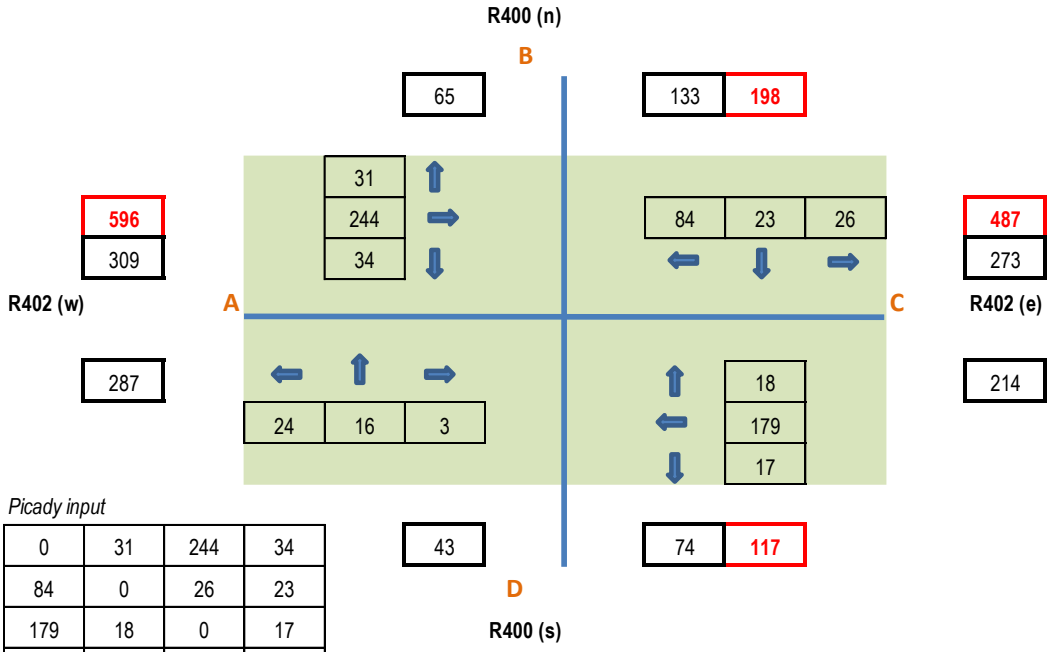


Figure A15-6-9e	Access junction 7, Site entrance M - L6002 With construction traffic flows, AM and PM peak hours, Year 2032
Ballydermot Wind Farm - 19/06/2026	

AM Peak hour - 08:00 to 09:00

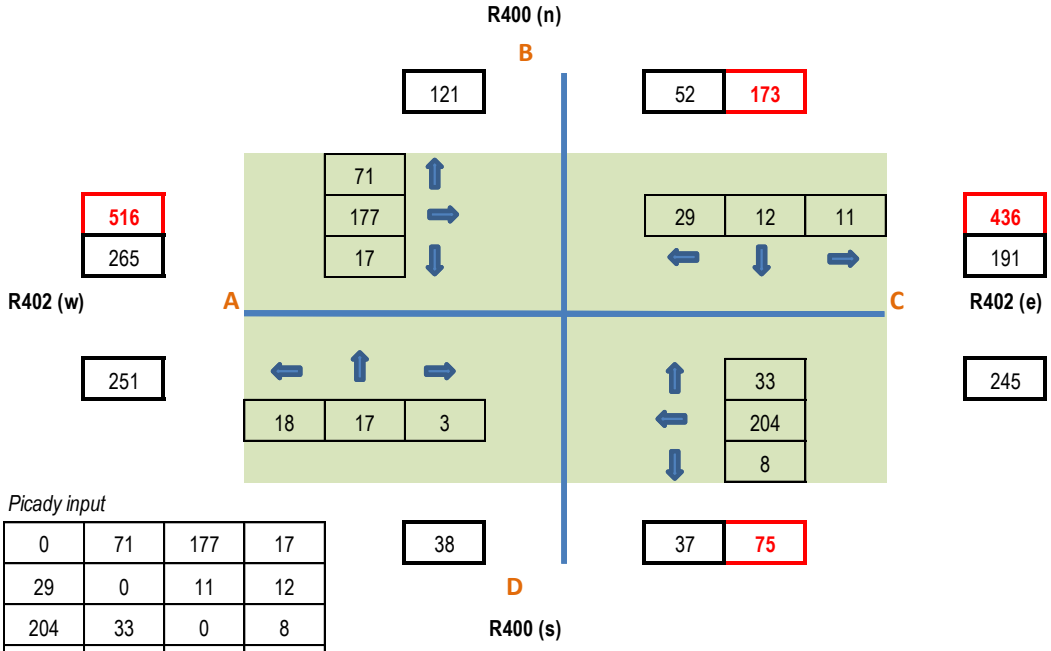


Picady input

0	31	244	34
84	0	26	23
179	18	0	17
24	16	3	0

All flows in pcus

PM Peak hour - 17:00 to 18:00



Picady input

0	71	177	17
29	0	11	12
204	33	0	8
18	17	3	0

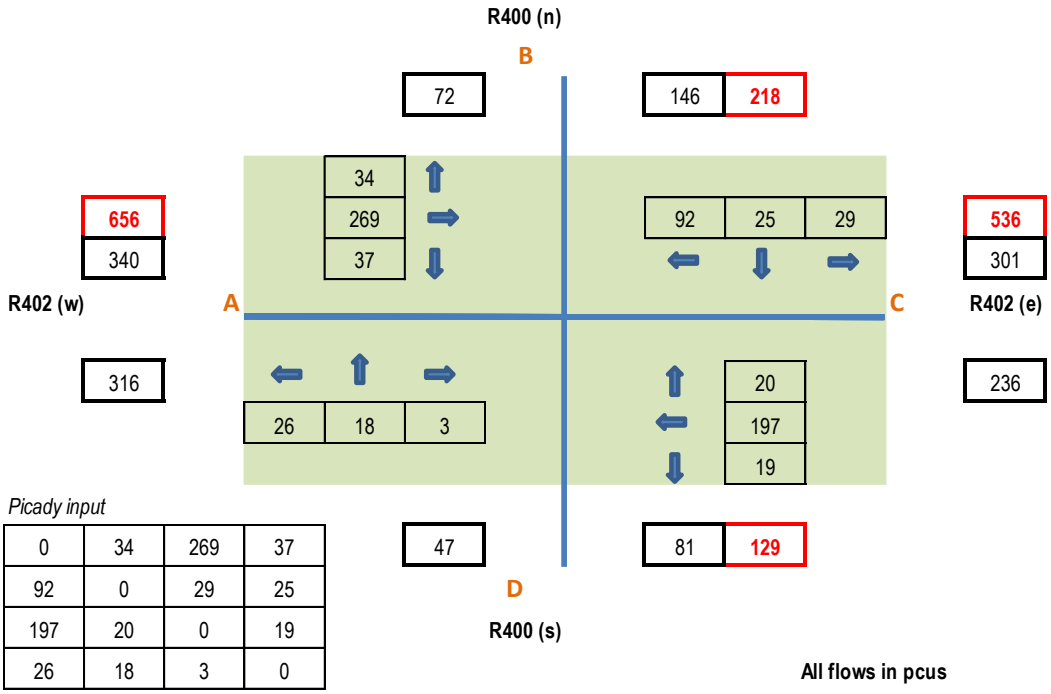
All flows in pcus

Figure A15-6-10a

Existing junction A, R402 / R400 junction, Mount Lucas

Observed traffic flows, AM and PM peak hours, Year 2025

AM Peak hour - 08:00 to 09:00

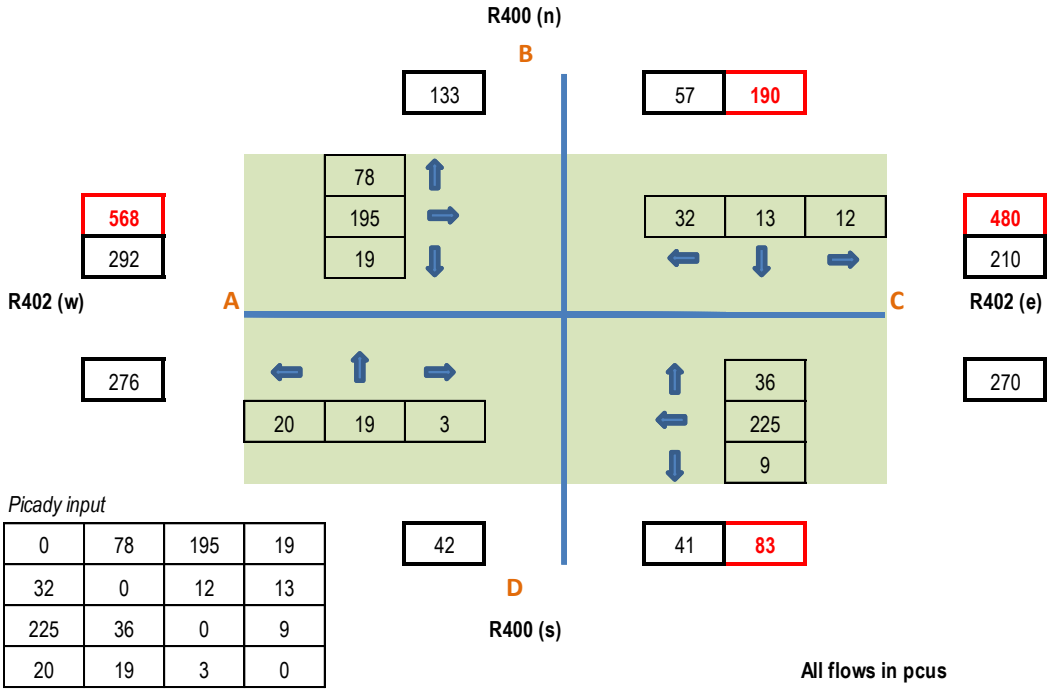


Picady input

0	34	269	37
92	0	29	25
197	20	0	19
26	18	3	0

All flows in pcus

PM Peak hour - 17:00 to 18:00



Picady input

0	78	195	19
32	0	12	13
225	36	0	9
20	19	3	0

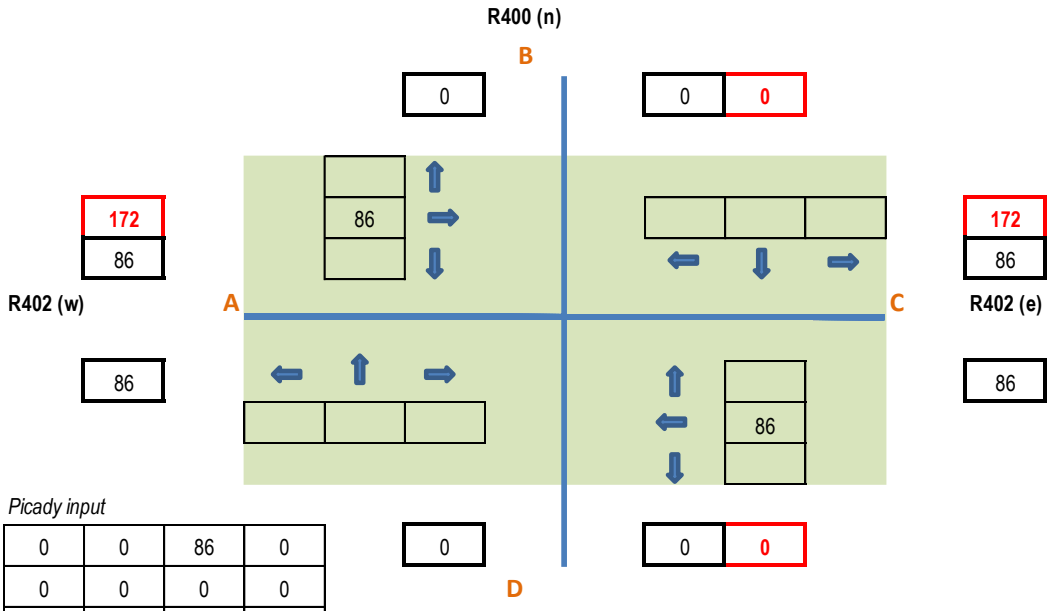
All flows in pcus

Figure A15-6-10b

Existing junction A, R402 / R400 junction, Mount Lucas

Background traffic flows, AM and PM peak hours, Year 2032

AM Peak hour - 08:00 to 09:00

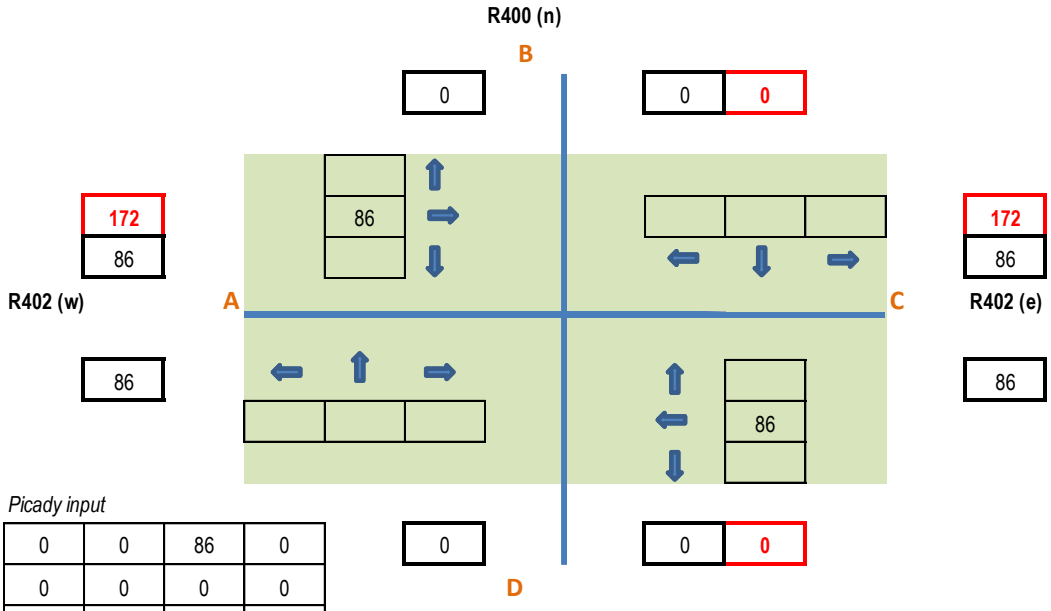


Picady input

0	0	86	0
0	0	0	0
86	0	0	0
0	0	0	0

All flows in pcus

PM Peak hour - 17:00 to 18:00



Picady input

0	0	86	0
0	0	0	0
86	0	0	0
0	0	0	0

All flows in pcus

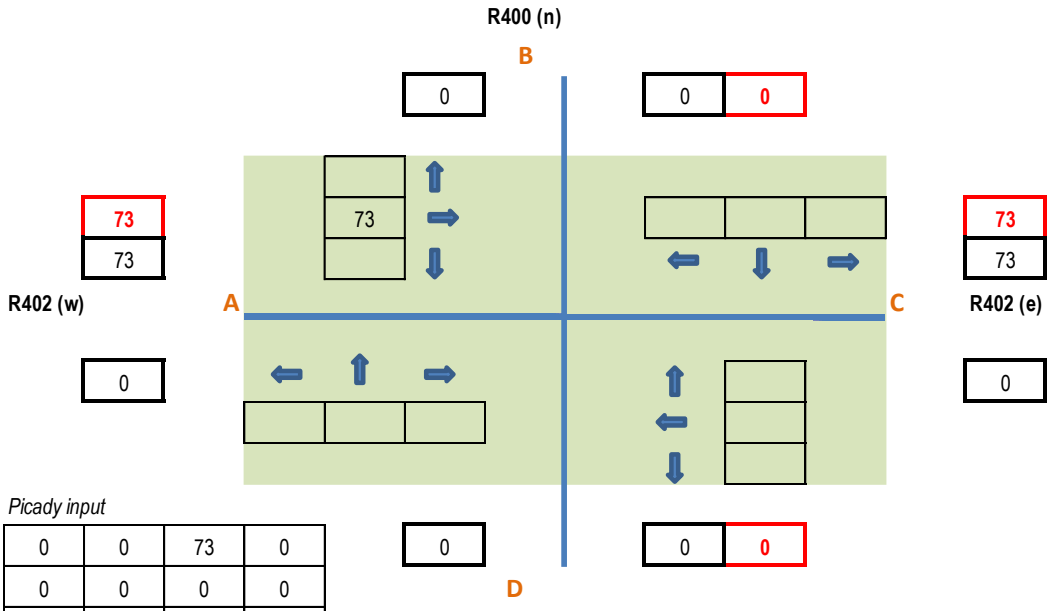
Figure A15-6-10c

Existing junction A, R402 / R400 junction, Mount Lucas

Development traffic flows (HGV pcus), AM and PM peak hours

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

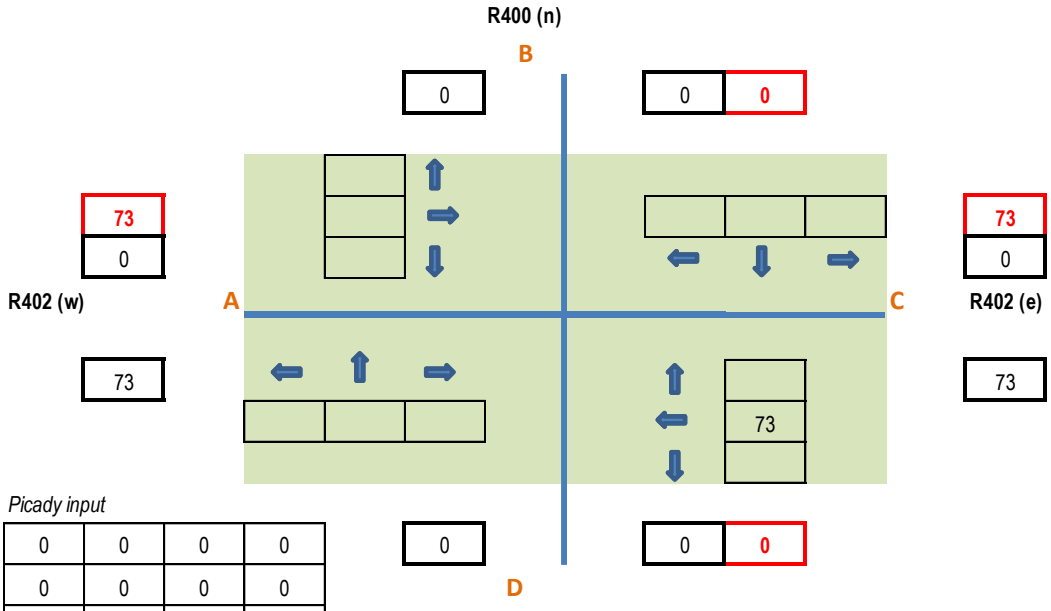


Picady input

0	0	73	0
0	0	0	0
0	0	0	0
0	0	0	0

All flows in pcus

PM Peak hour - 17:00 to 18:00



Picady input

0	0	0	0
0	0	0	0
73	0	0	0
0	0	0	0

All flows in pcus

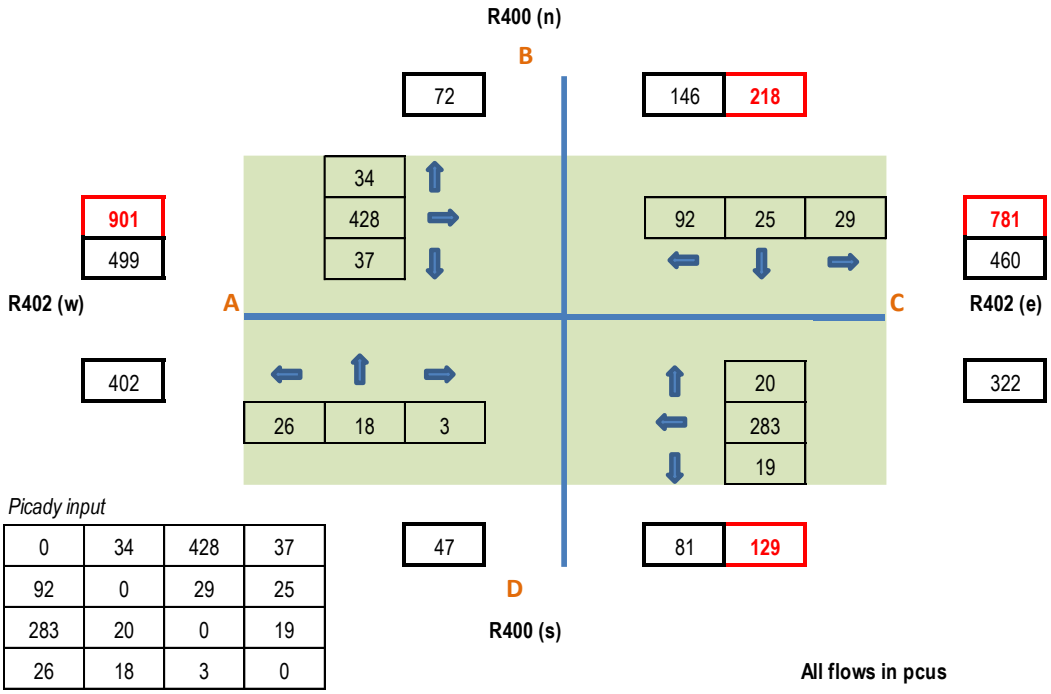
Figure A15-6-10d

Existing junction A, R402 / R400 junction, Mount Lucas

Development traffic flows (staff cars), AM and PM peak hours

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

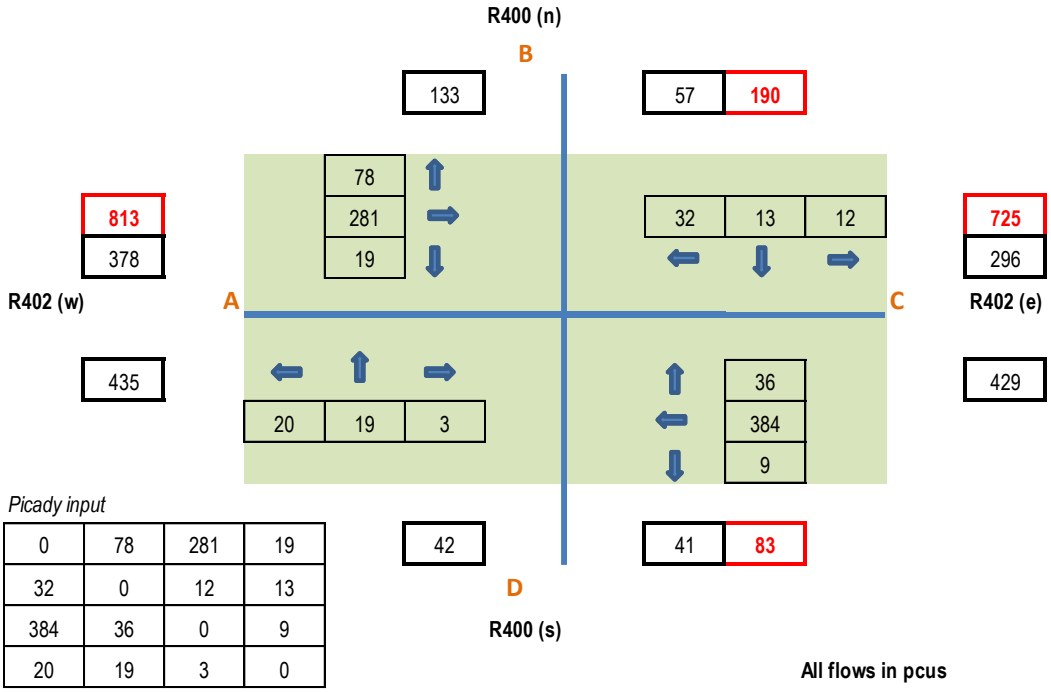


Picady input

0	34	428	37
92	0	29	25
283	20	0	19
26	18	3	0

All flows in pcus

PM Peak hour - 17:00 to 18:00



Picady input

0	78	281	19
32	0	12	13
384	36	0	9
20	19	3	0

All flows in pcus

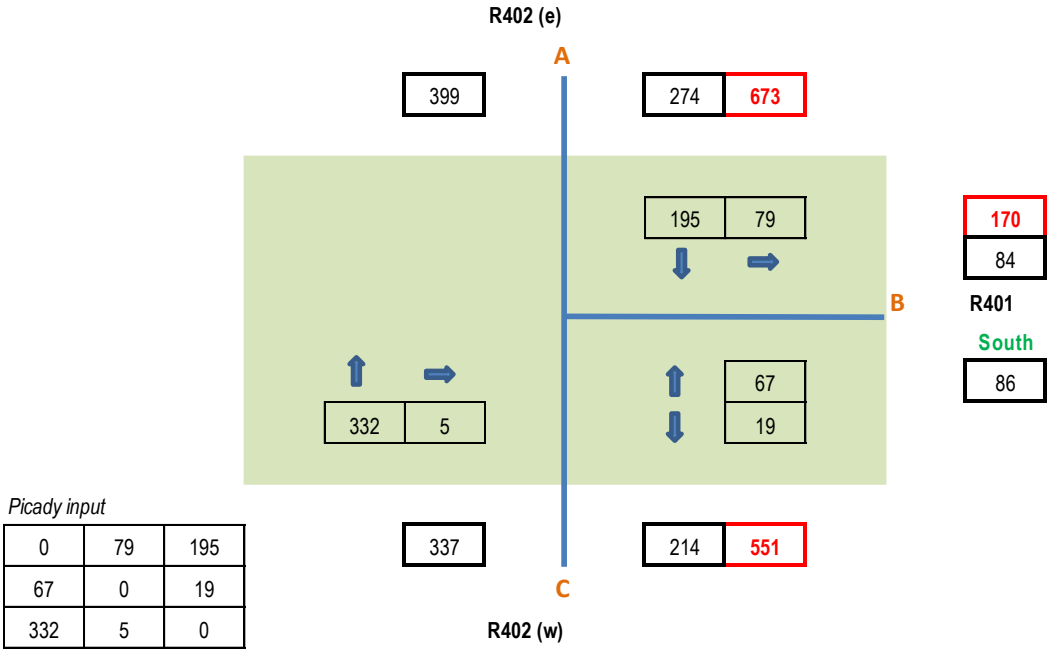
Figure A15-6-10e

Existing junction A, R402 / R400 junction, Mount Lucas

With construction traffic flows, AM and PM peak hours, Year 2032

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

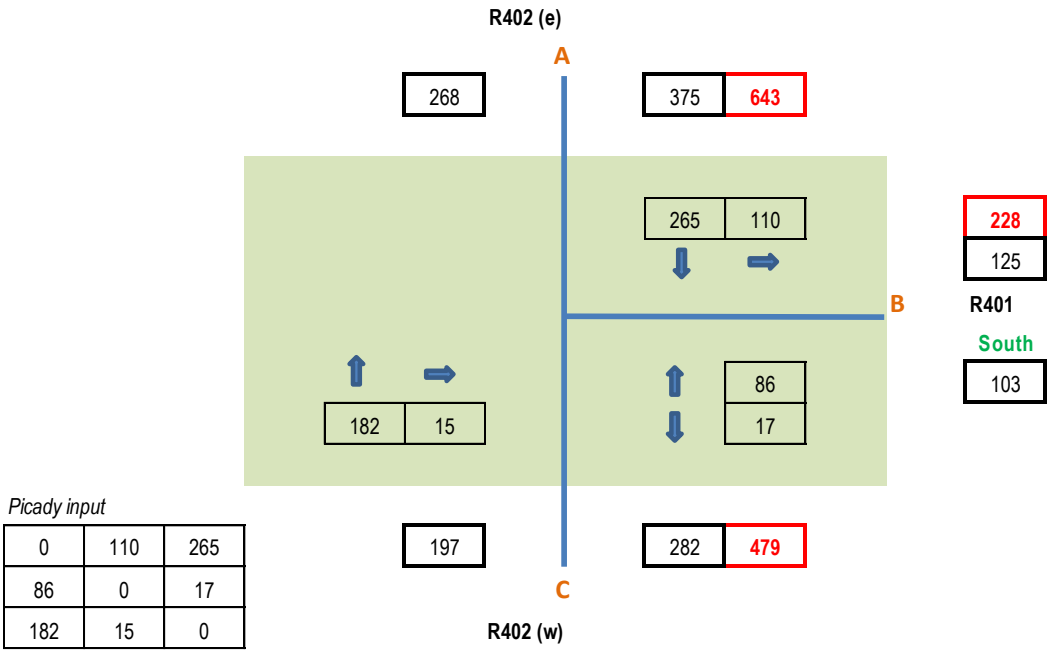


Picady input

0	79	195
67	0	19
332	5	0

All flows in pcus

PM Peak hour - 16:00 to 17:00



Picady input

0	110	265
86	0	17
182	15	0

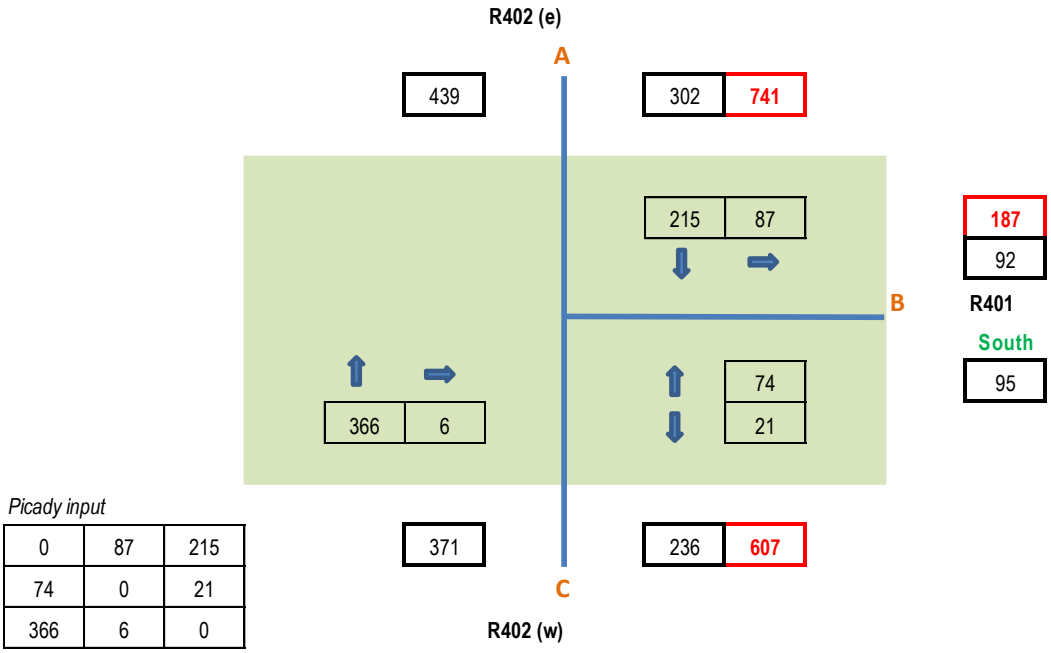
All flows in pcus

Figure A15-6-11a

Existing junction B, R402 / R401 junction, Edenderry

Observed traffic flows, AM and PM peak hours, Year 2025

AM Peak hour - 08:00 to 09:00

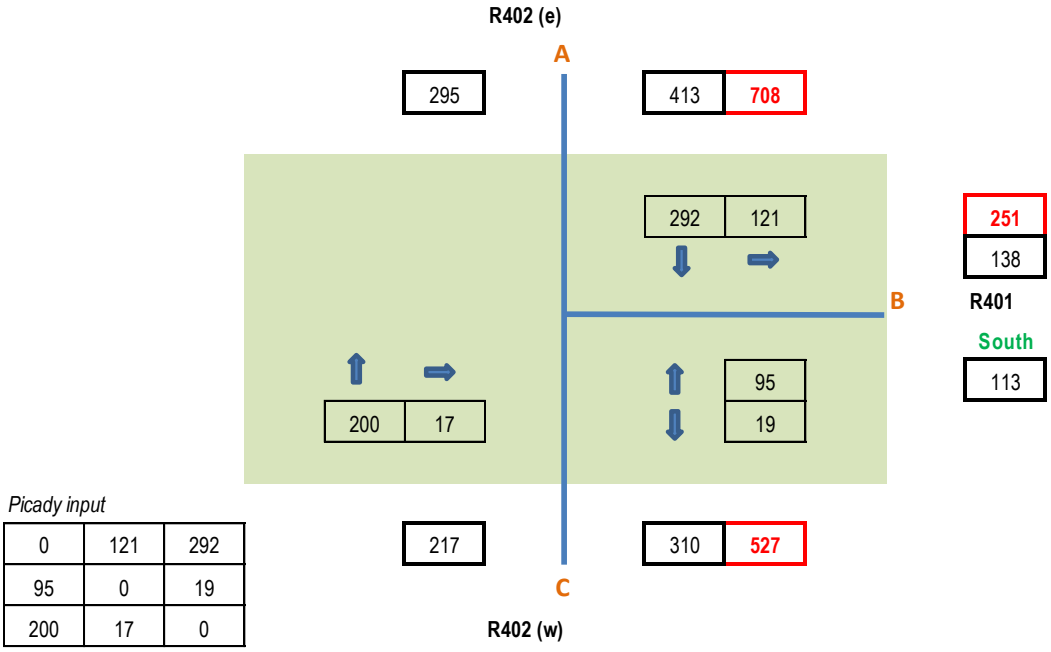


Picady input

0	87	215
74	0	21
366	6	0

All flows in pcus

PM Peak hour - 16:00 to 17:00



Picady input

0	121	292
95	0	19
200	17	0

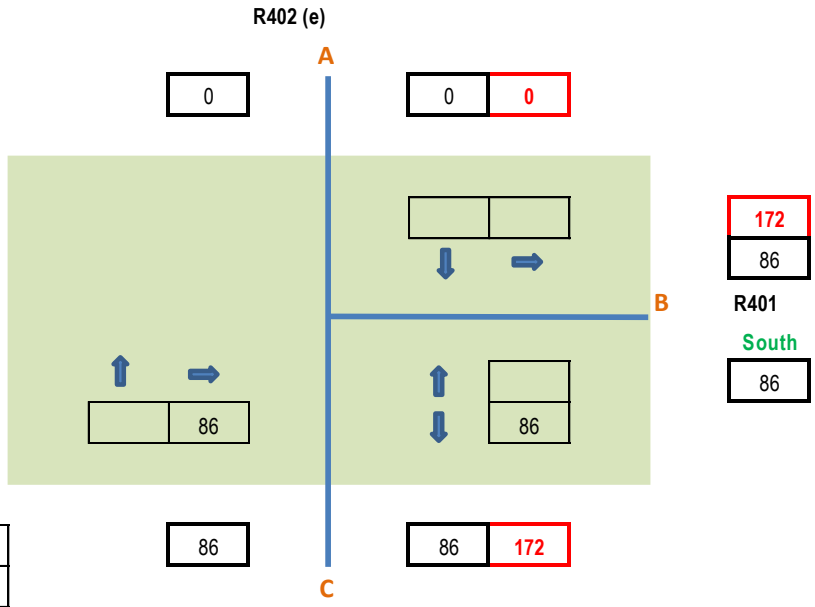
All flows in pcus

Figure A15-6-11b

Existing junction B, R402 / R401 junction, Edenderry

Background traffic flows, AM and PM peak hours, Year 2032

AM Peak hour - 08:00 to 09:00

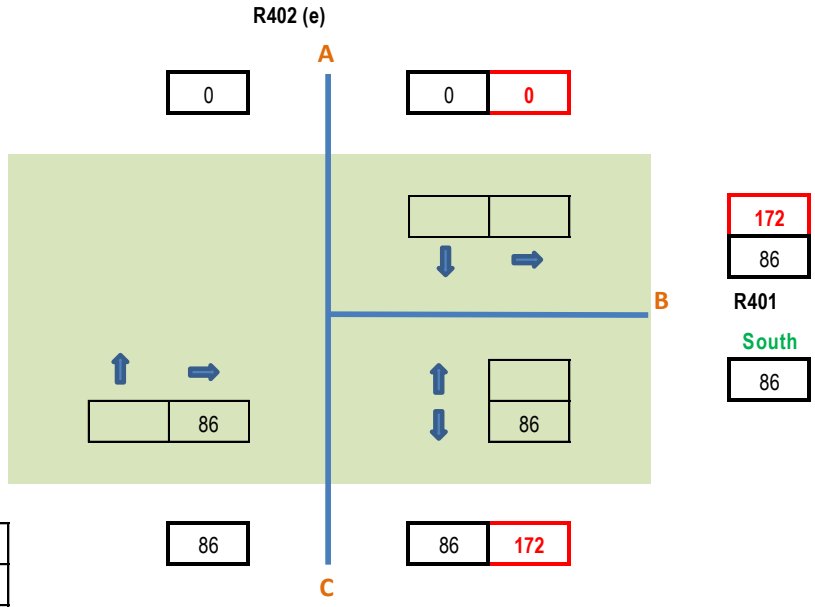


Picady input

0	0	0
0	0	86
0	86	0

All flows in pcus

PM Peak hour - 16:00 to 17:00



Picady input

0	0	0
0	0	86
0	86	0

All flows in pcus

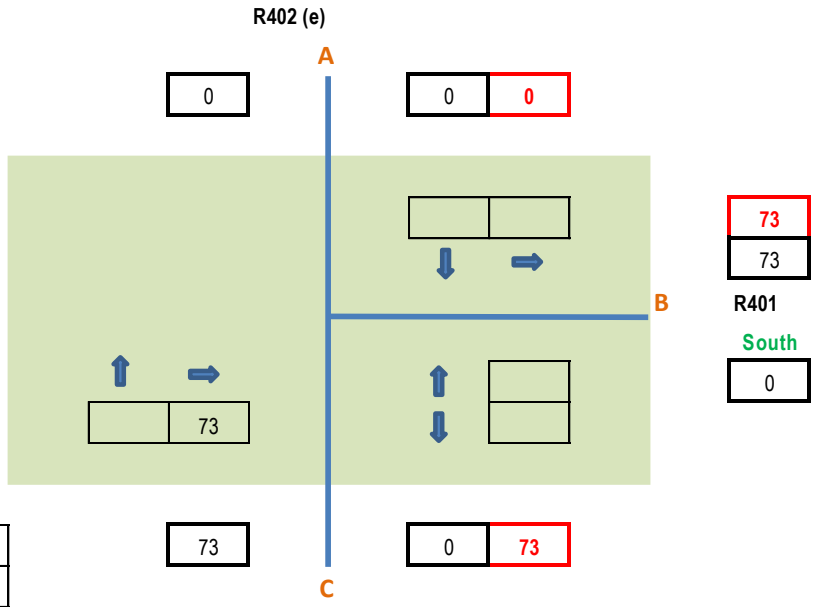
Figure A15-6-11c

Existing junction B, R402 / R401 junction, Edenderry

Development traffic flows (HGV pcus), AM and PM peak hours

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

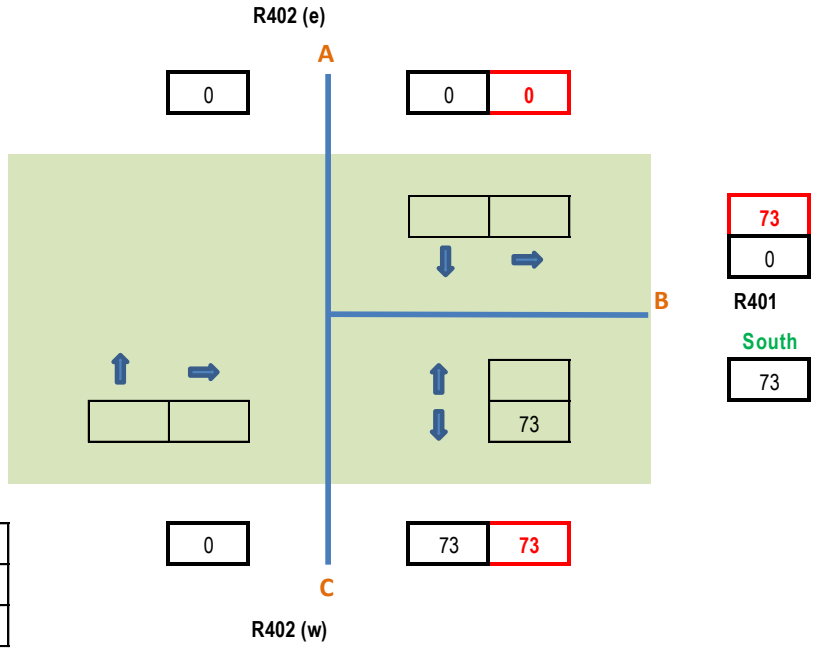


Picady input

0	0	0
0	0	0
0	73	0

All flows in pcus

PM Peak hour - 16:00 to 17:00



Picady input

0	0	0
0	0	73
0	0	0

All flows in pcus

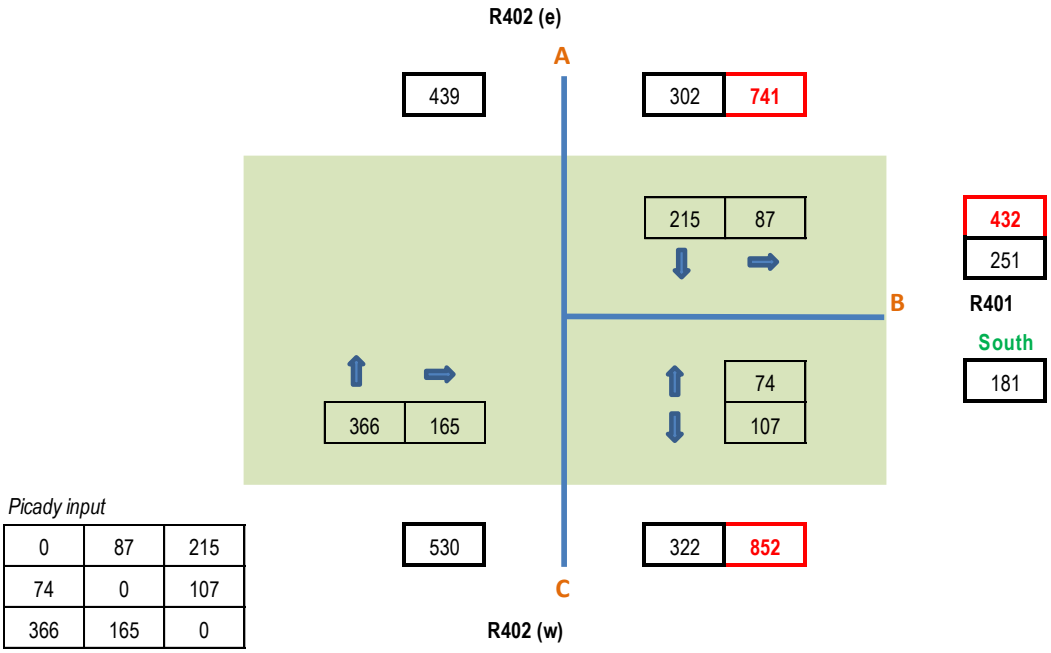
Figure A15-6-11d

Existing junction B, R402 / R401 junction, Edenderry

Development traffic flows (staff cars), AM and PM peak hours

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

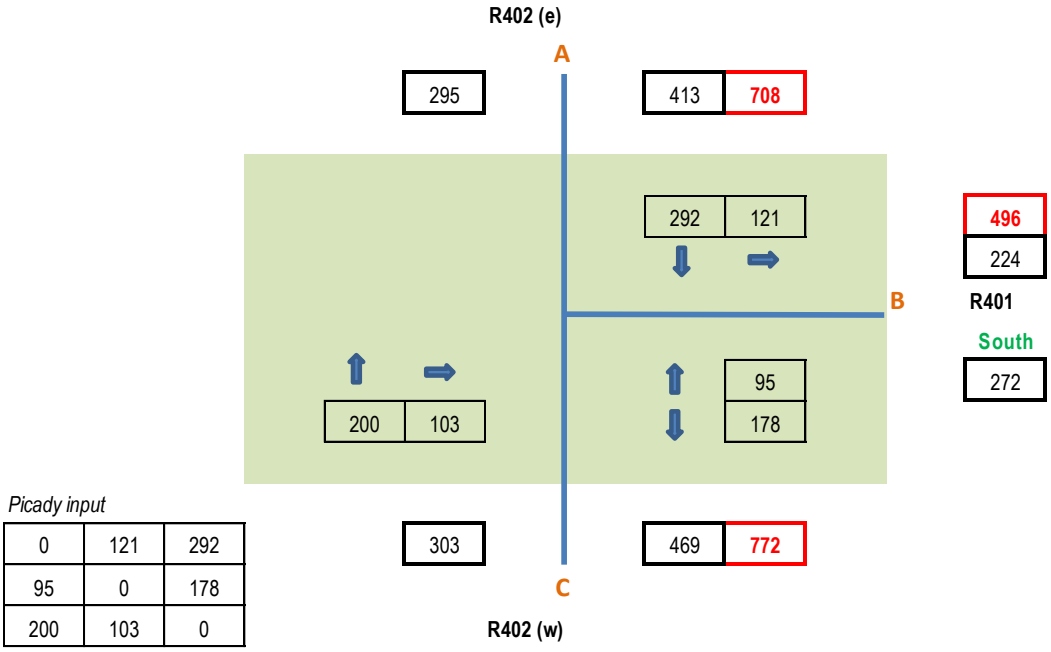


Picady input

0	87	215
74	0	107
366	165	0

All flows in pcus

PM Peak hour - 16:00 to 17:00



Picady input

0	121	292
95	0	178
200	103	0

All flows in pcus

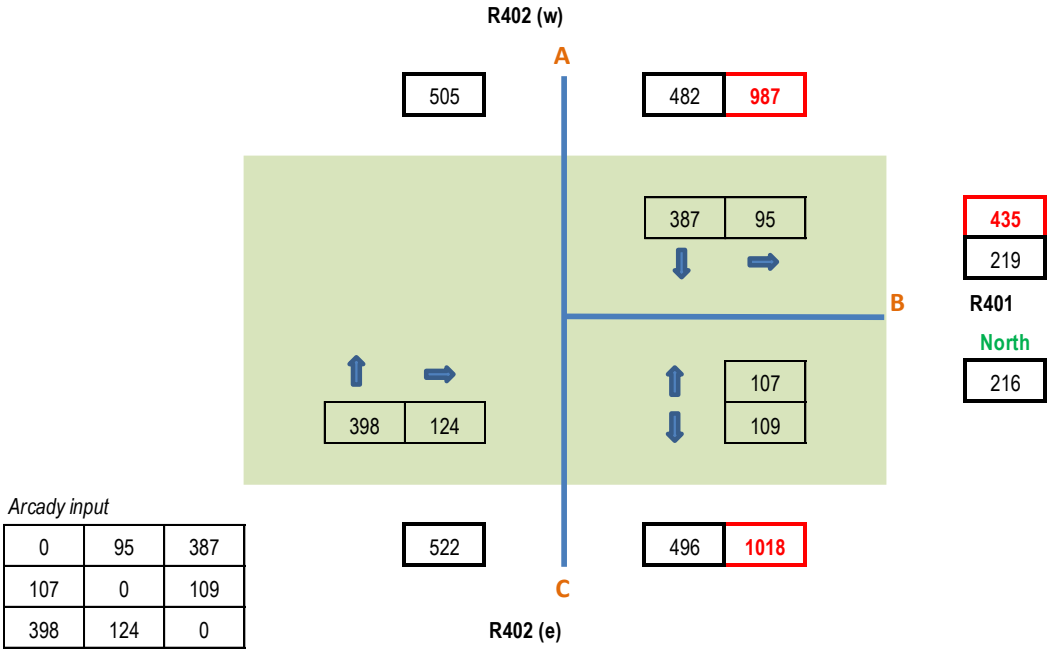
Figure A15-6-11e

Existing junction B, R402 / R401 junction, Edenderry

With construction traffic flows, AM and PM peak hours, Year 2032

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

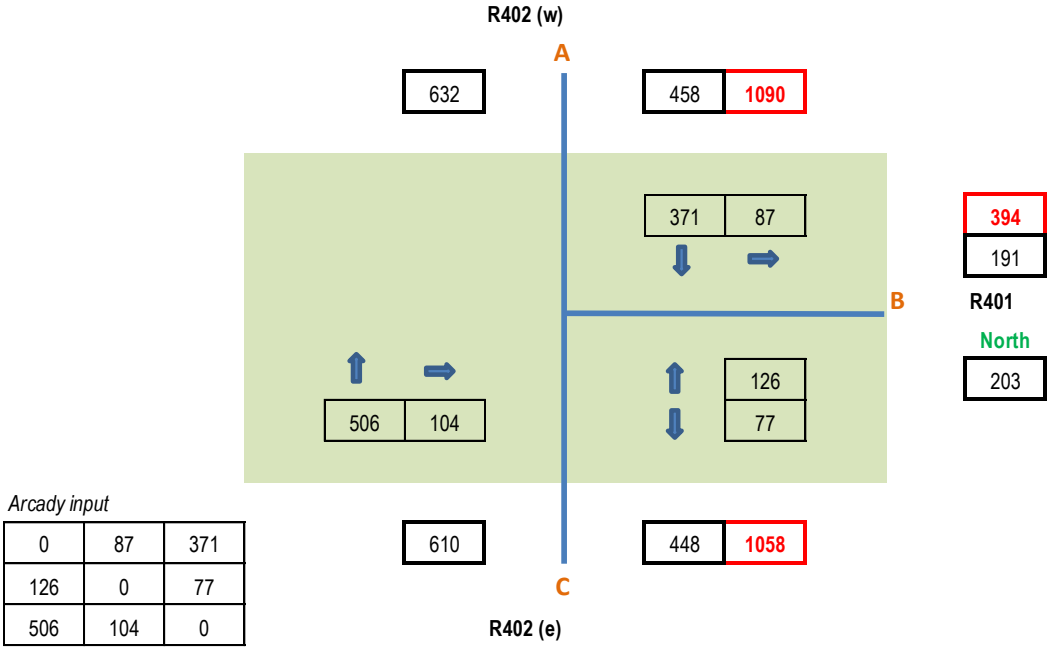


Arcady input

0	95	387
107	0	109
398	124	0

All flows in pcus

PM Peak hour - 16:00 to 17:00



Arcady input

0	87	371
126	0	77
506	104	0

All flows in pcus

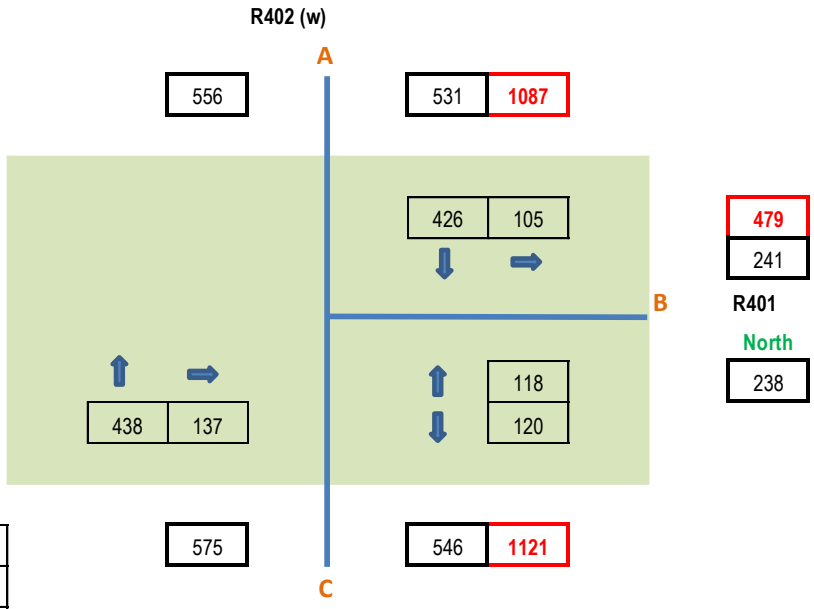
Figure A15-6-12a

Existing junction C, R402 / R401 mini roundabout, Edenderry

Observed traffic flows, AM and PM peak hours, Year 2025

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

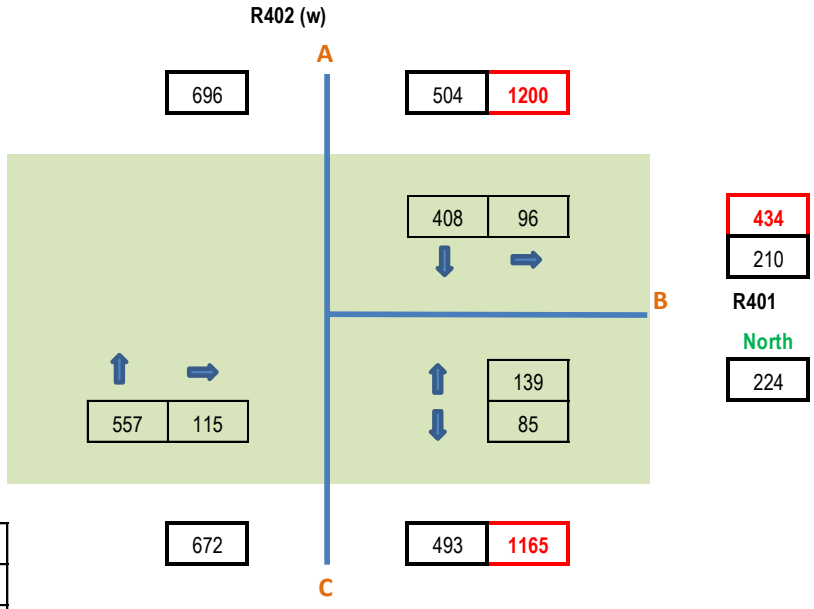


Arcady input

0	105	426
118	0	120
438	137	0

All flows in pcus

PM Peak hour - 16:00 to 17:00



Arcady input

0	96	408
139	0	85
557	115	0

All flows in pcus

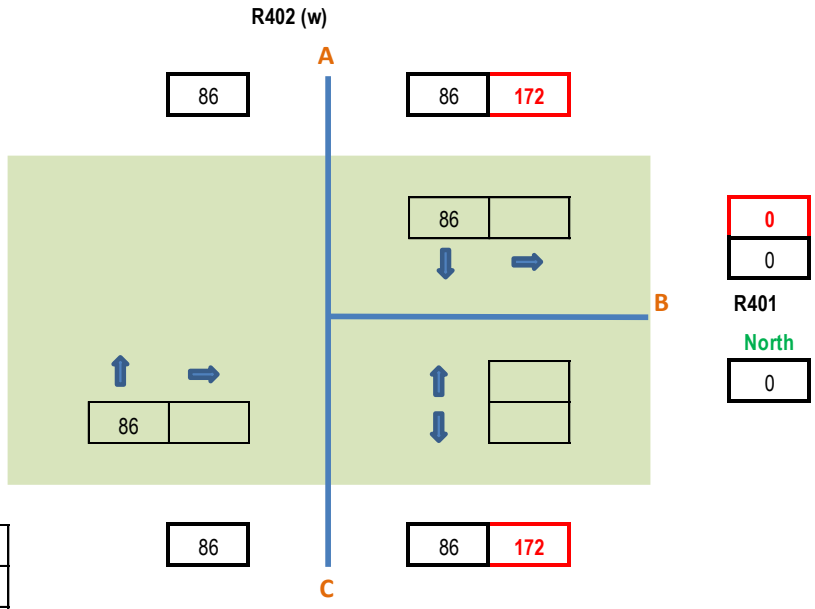
Figure A15-6-12b

Existing junction C, R402 / R401 mini roundabout, Edenderry

Background traffic flows, AM and PM peak hours, Year 2032

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

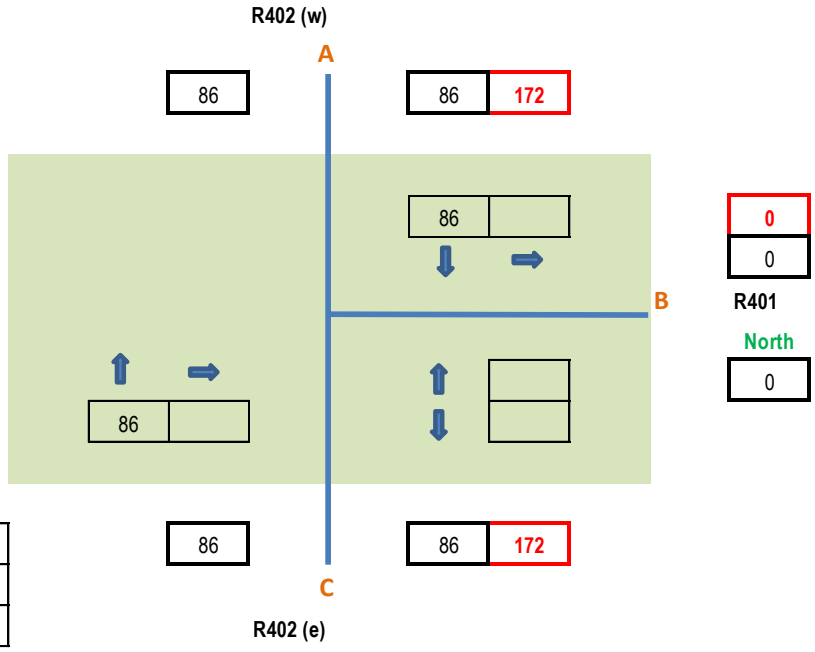


Arcady input

0	0	86
0	0	0
86	0	0

All flows in pcus

PM Peak hour - 16:00 to 17:00



Arcady input

0	0	86
0	0	0
86	0	0

All flows in pcus

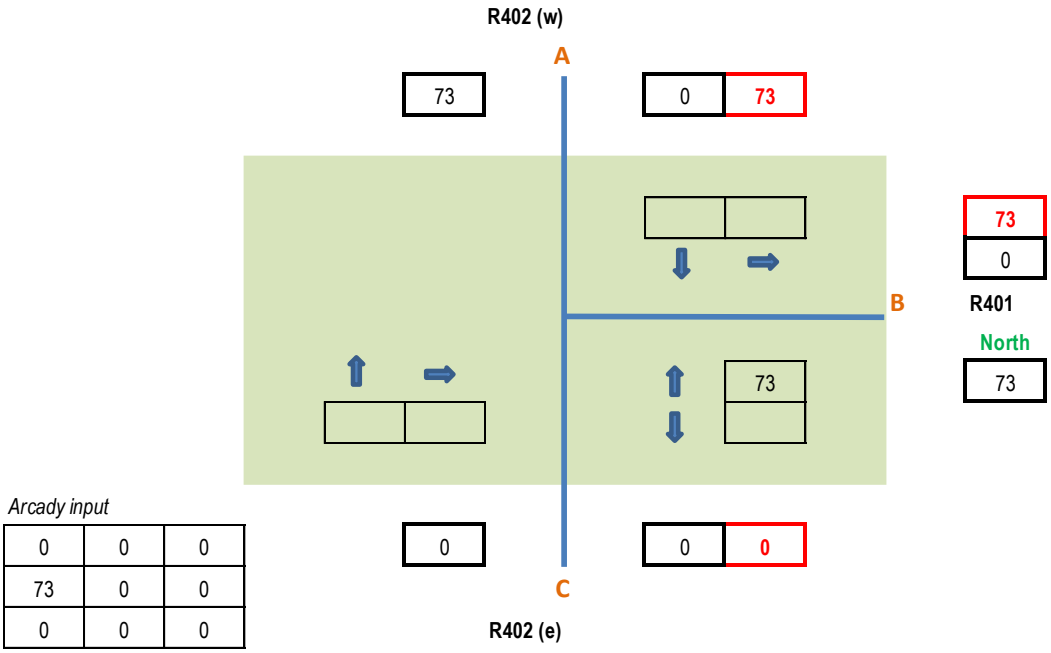
Figure A15-6-12c

Existing junction C, R402 / R401 mini roundabout, Edenderry

Development traffic flows (HGV pcus), AM and PM peak hours

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

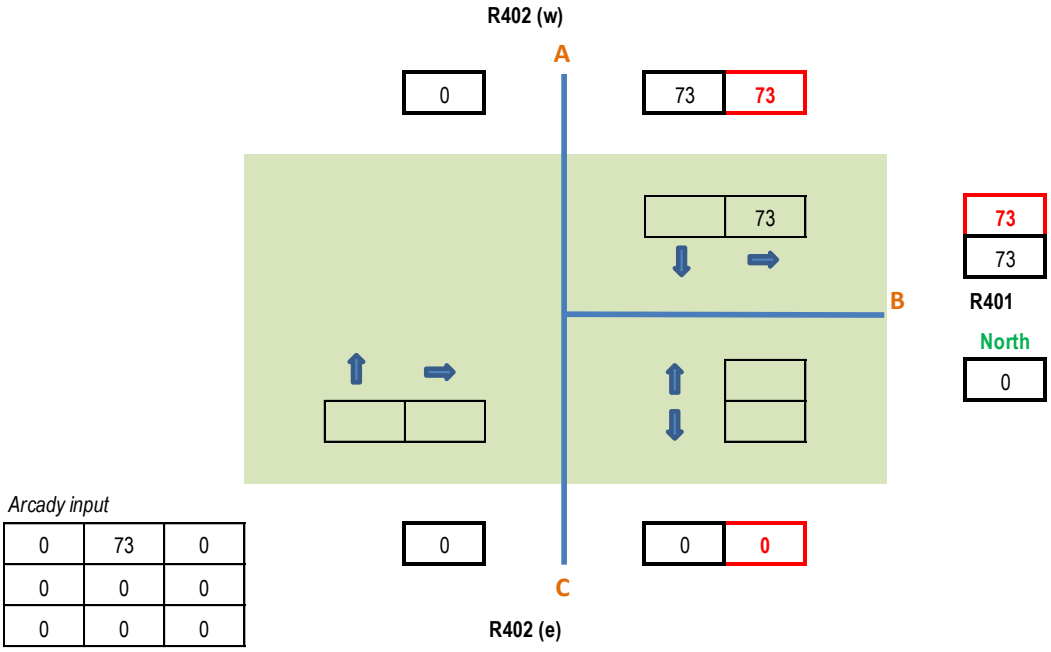


Arcady input

0	0	0
73	0	0
0	0	0

All flows in pcus

PM Peak hour - 16:00 to 17:00



Arcady input

0	73	0
0	0	0
0	0	0

All flows in pcus

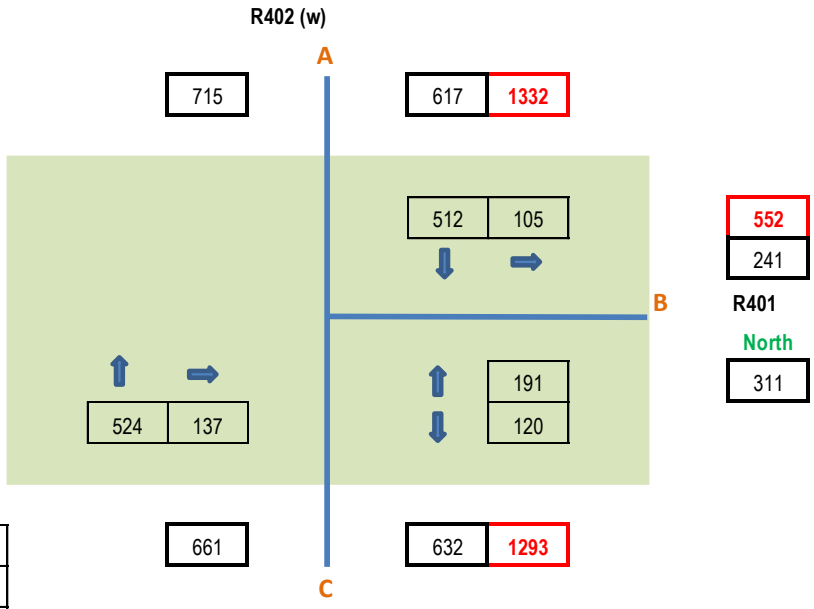
Figure A15-6-12d

Existing junction C, R402 / R401 mini roundabout, Edenderry

Development traffic flows (staff cars), AM and PM peak hours

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

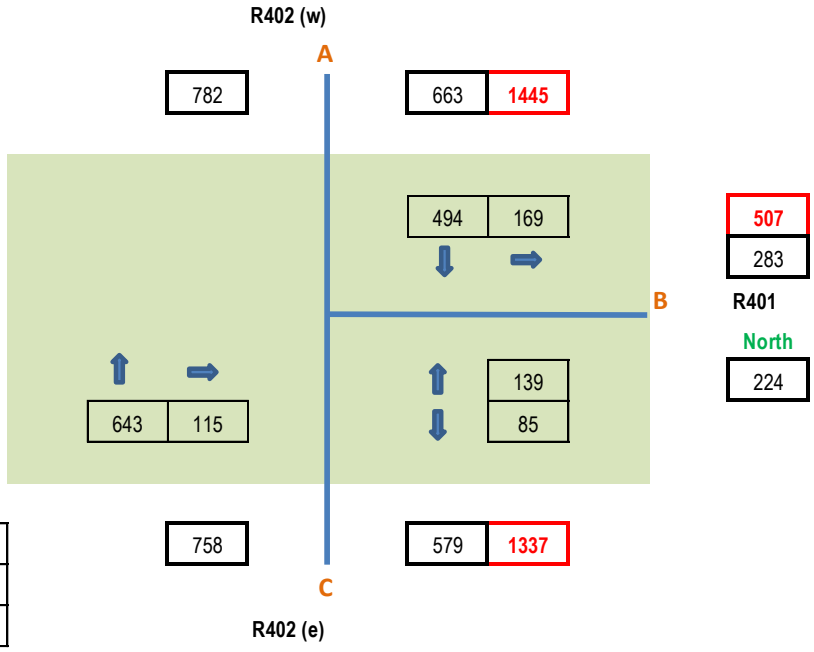


Arcady input

0	105	512
191	0	120
524	137	0

All flows in pcus

PM Peak hour - 16:00 to 17:00



Arcady input

0	169	494
139	0	85
643	115	0

All flows in pcus

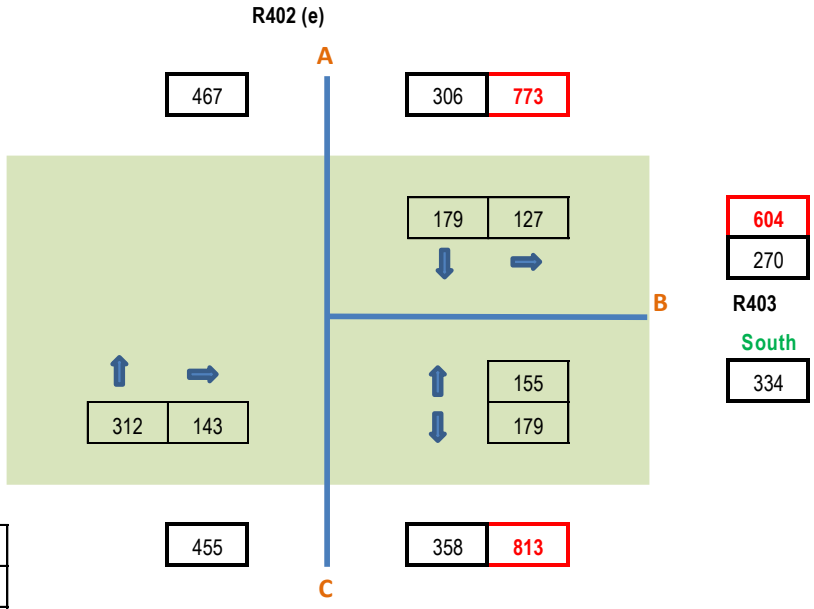
Figure A15-6-12e

Existing junction C, R402 / R401 mini roundabout, Edenderry

With construction traffic flows, AM and PM peak hours, Year 2032

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

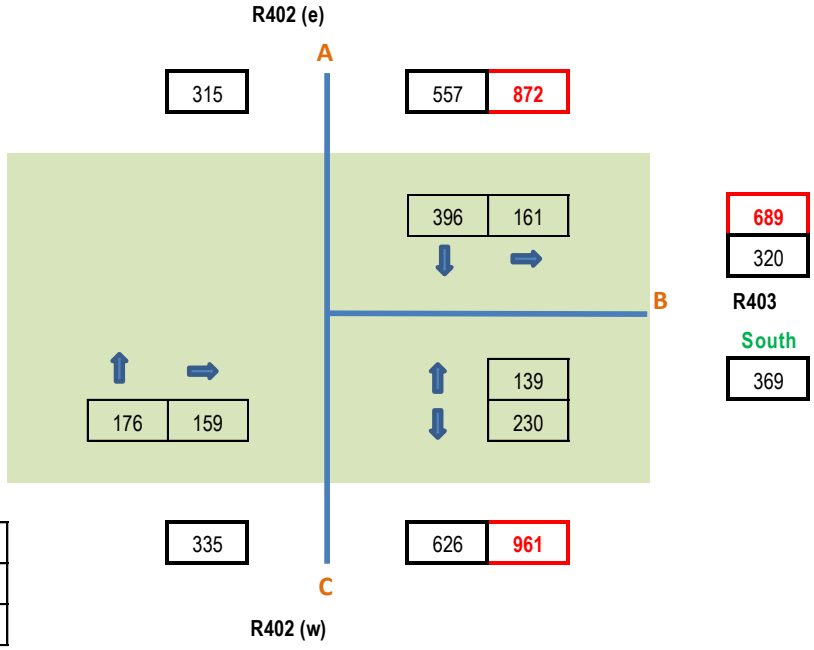


Arcady input

0	127	179
155	0	179
312	143	0

All flows in pcus

PM Peak hour - 16:00 to 17:00



Arcady input

0	161	396
139	0	230
176	159	0

All flows in pcus

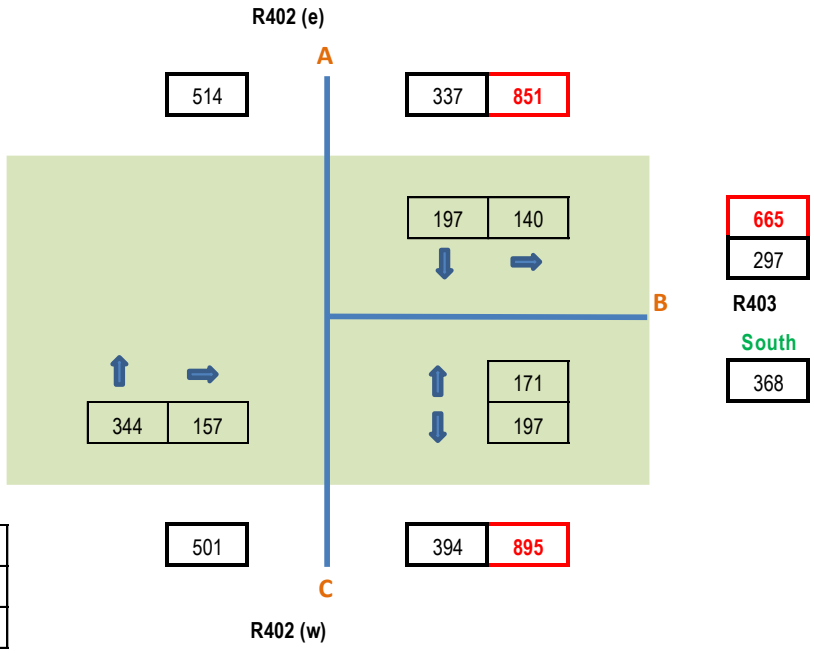
Figure A15-6-13a

Existing roundabout D, R402 / R403 junction, Carbury

Observed traffic flows, AM and PM peak hours, Year 2025

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

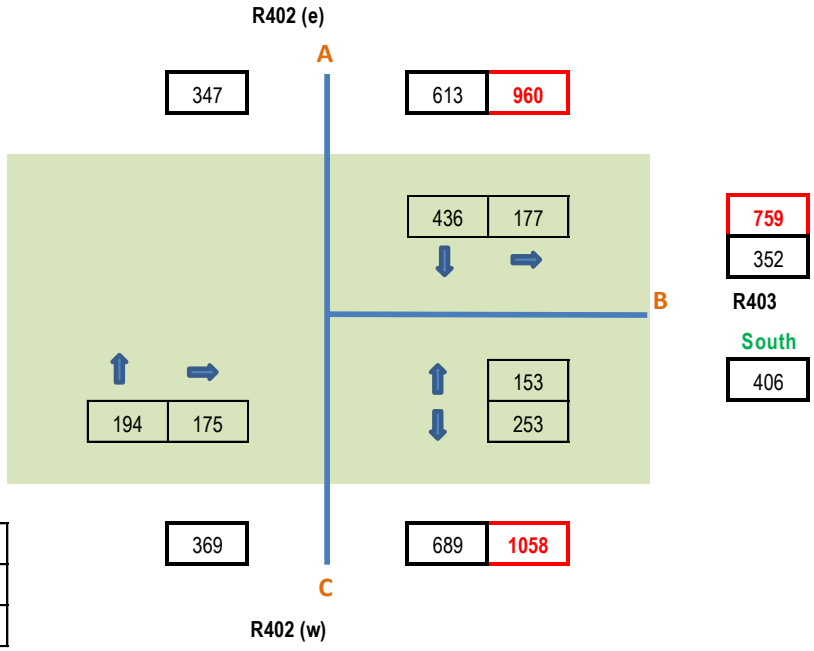


Arcady input

0	140	197
171	0	197
344	157	0

All flows in pcus

PM Peak hour - 16:00 to 17:00



Arcady input

0	177	436
153	0	253
194	175	0

All flows in pcus

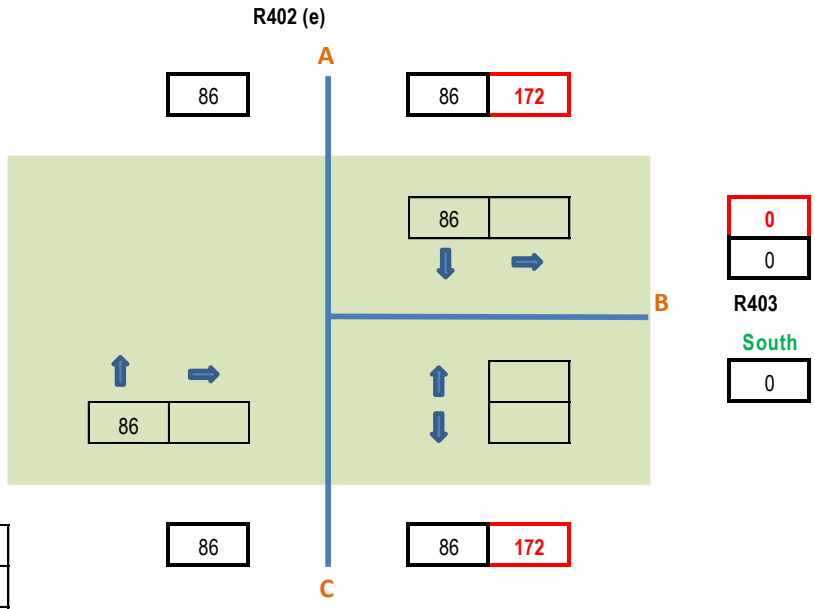
Figure A15-6-13b

Existing roundabout D, R402 / R403 junction, Carbury

Background traffic flows, AM and PM peak hours, Year 2032

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

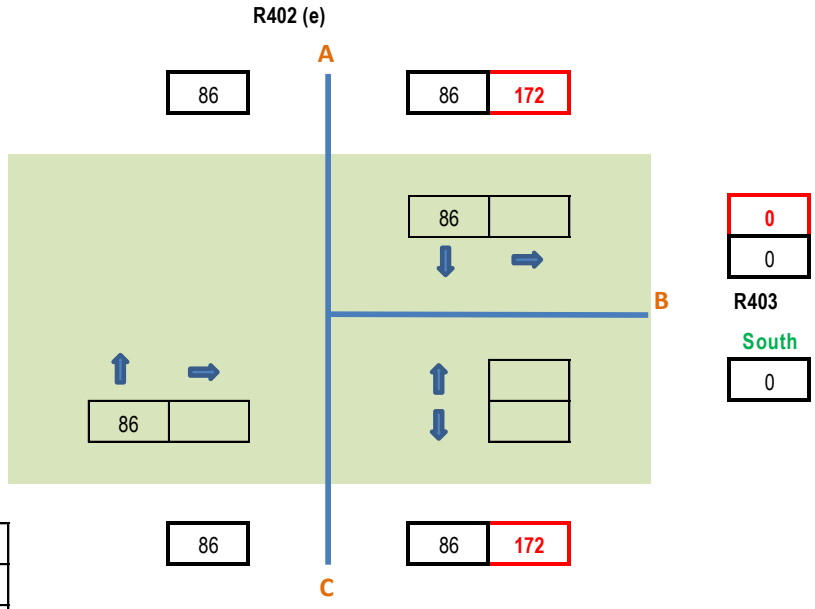


Arcady input

0	0	86
0	0	0
86	0	0

All flows in pcus

PM Peak hour - 16:00 to 17:00



Arcady input

0	0	86
0	0	0
86	0	0

All flows in pcus

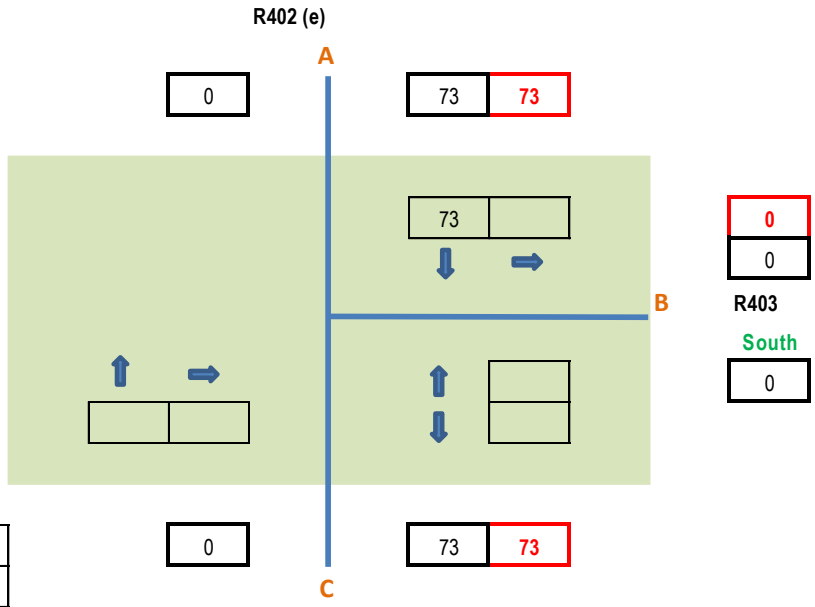
Figure A15-6-13c

Existing roundabout D, R402 / R403 junction, Carbury

Development traffic flows (HGV pcus), AM and PM peak hours

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

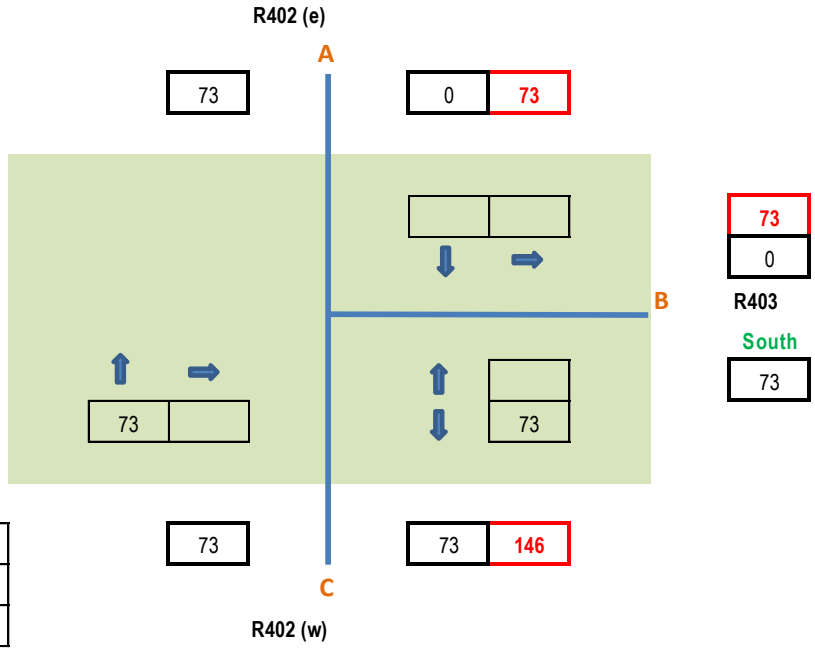


Arcady input

0	0	73
0	0	0
0	0	0

All flows in pcus

PM Peak hour - 16:00 to 17:00



Arcady input

0	0	0
0	0	73
73	0	0

All flows in pcus

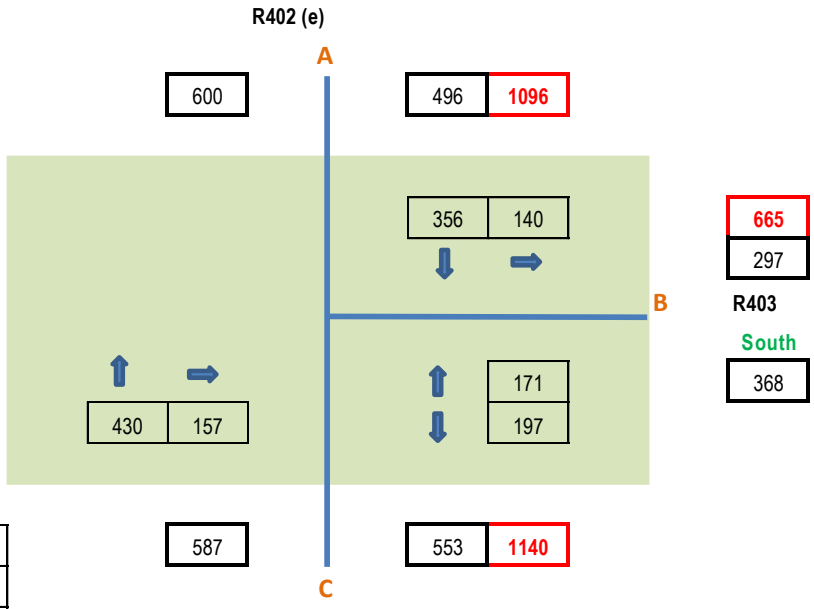
Figure A15-6-13d

Existing roundabout D, R402 / R403 junction, Carbury

Development traffic flows (staff cars), AM and PM peak hours

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

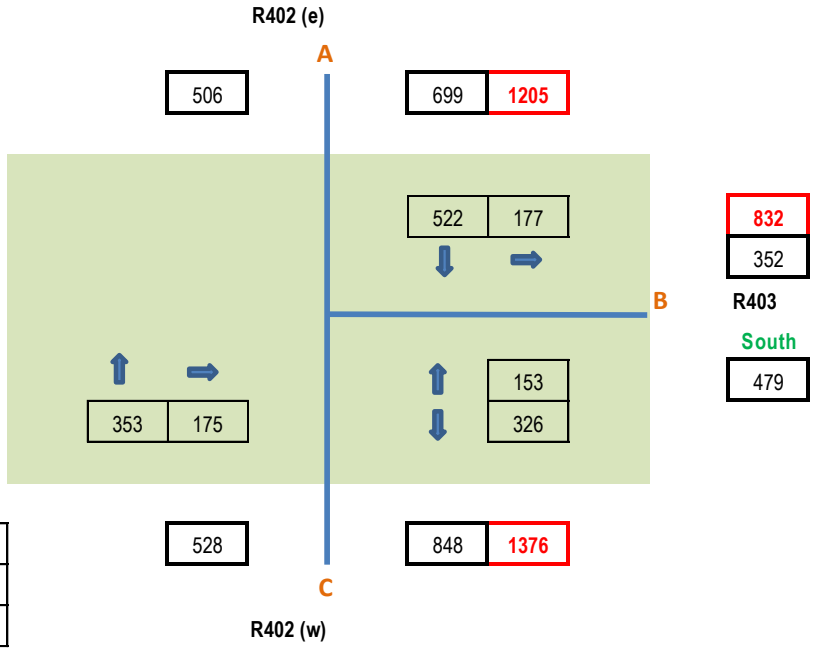


Arcady input

0	140	356
171	0	197
430	157	0

All flows in pcus

PM Peak hour - 16:00 to 17:00



Arcady input

0	177	522
153	0	326
353	175	0

All flows in pcus

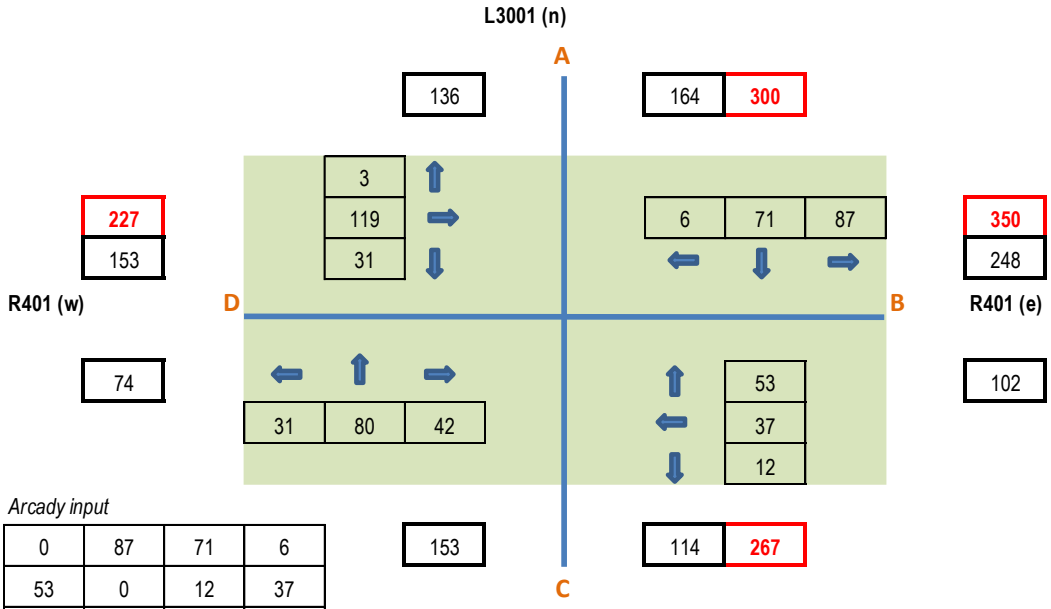
Figure A15-6-13e

Existing roundabout D, R402 / R403 junction, Carbury

With construction traffic flows, AM and PM peak hours, Year 2032

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

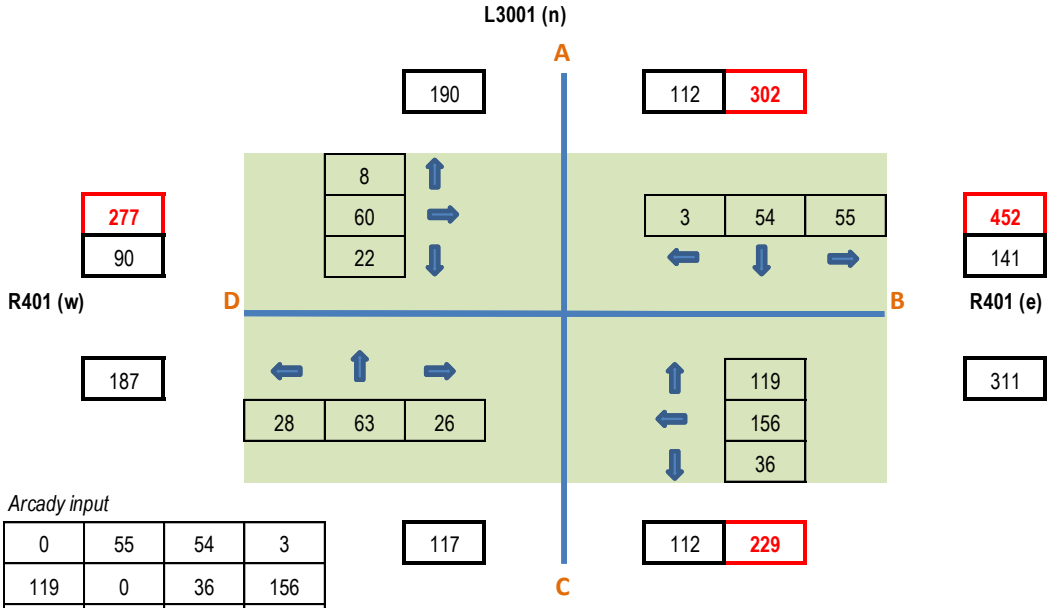


Arcady input

0	87	71	6
53	0	12	37
80	42	0	31
3	119	31	0

All flows in pcus

PM Peak hour - 17:00 to 18:00



Arcady input

0	55	54	3
119	0	36	156
63	26	0	28
8	60	22	0

All flows in pcus

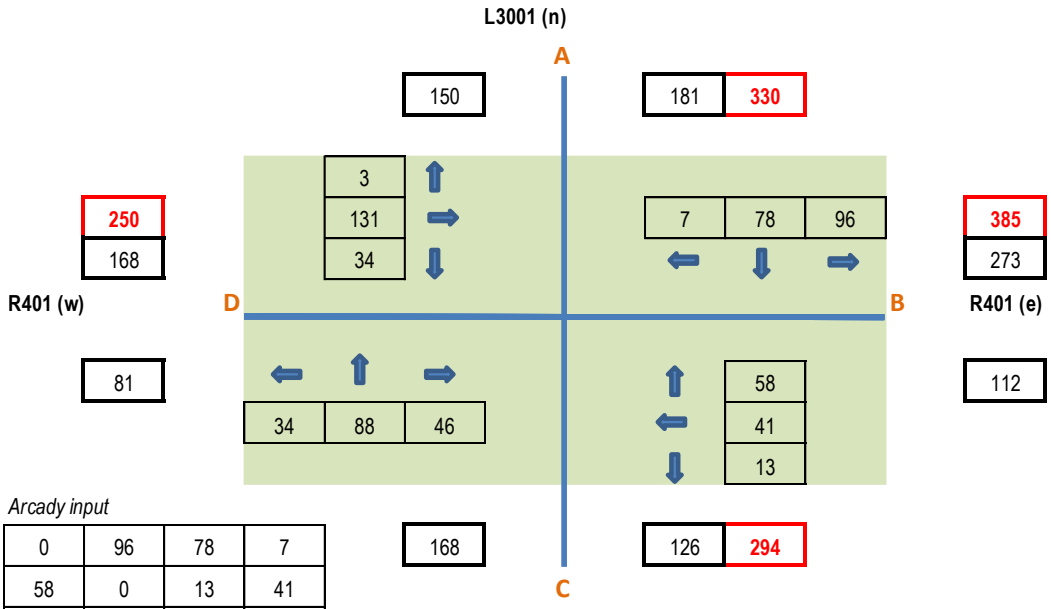
Figure A15-6-14a

Existing junction E, R401 / L3001 roundabout, Rathangan

Observed traffic flows, AM and PM peak hours, Year 2025

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

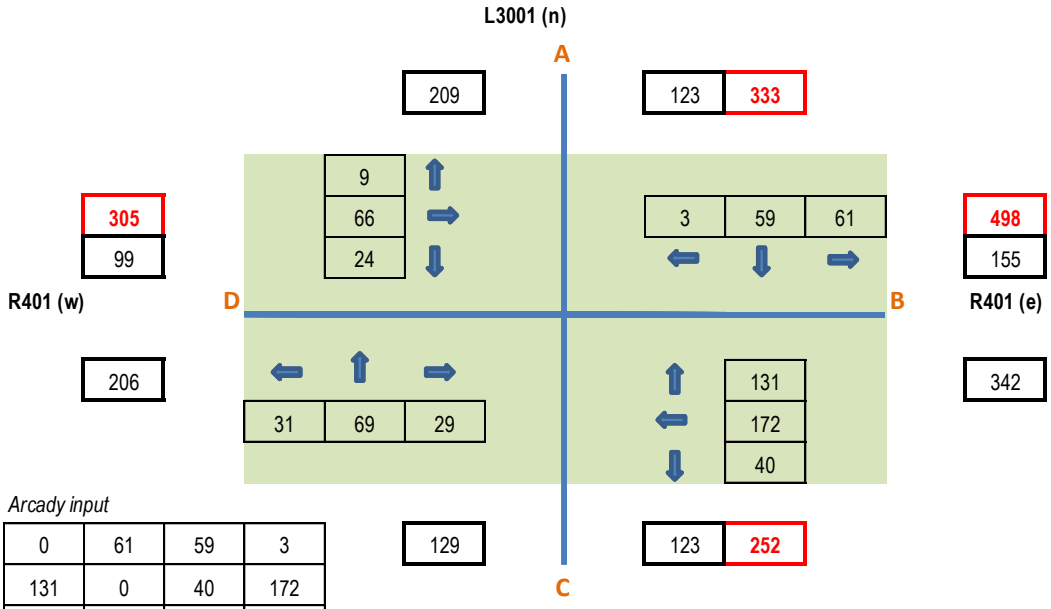


Arcady input

0	96	78	7
58	0	13	41
88	46	0	34
3	131	34	0

All flows in pcus

PM Peak hour - 17:00 to 18:00



Arcady input

0	61	59	3
131	0	40	172
69	29	0	31
9	66	24	0

All flows in pcus

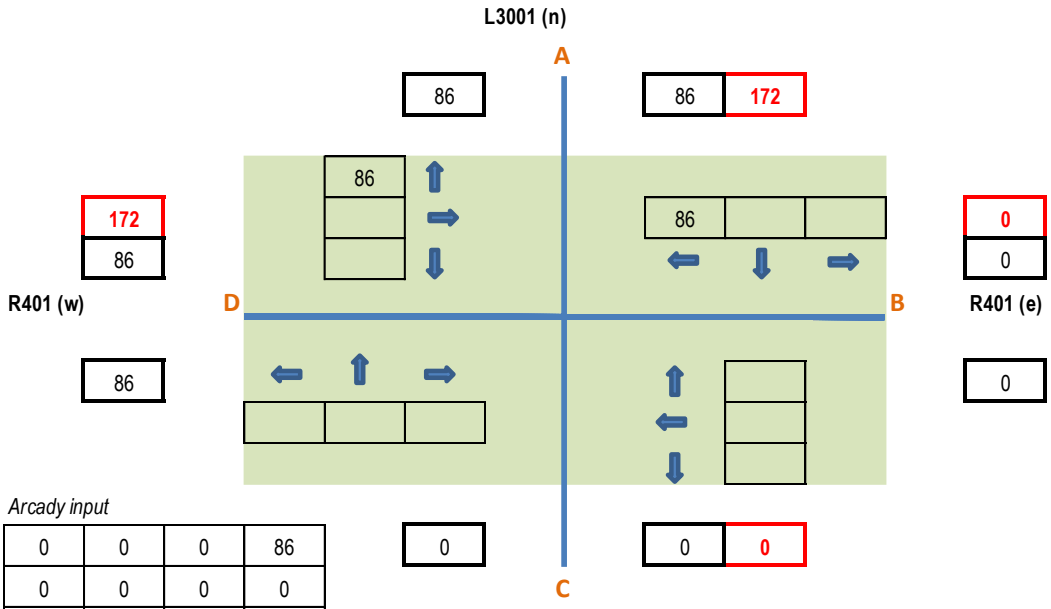
Figure A15-6-14b

Existing junction E, R401 / L3001 roundabout, Rathangan

Background traffic flows, AM and PM peak hours, Year 2032

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

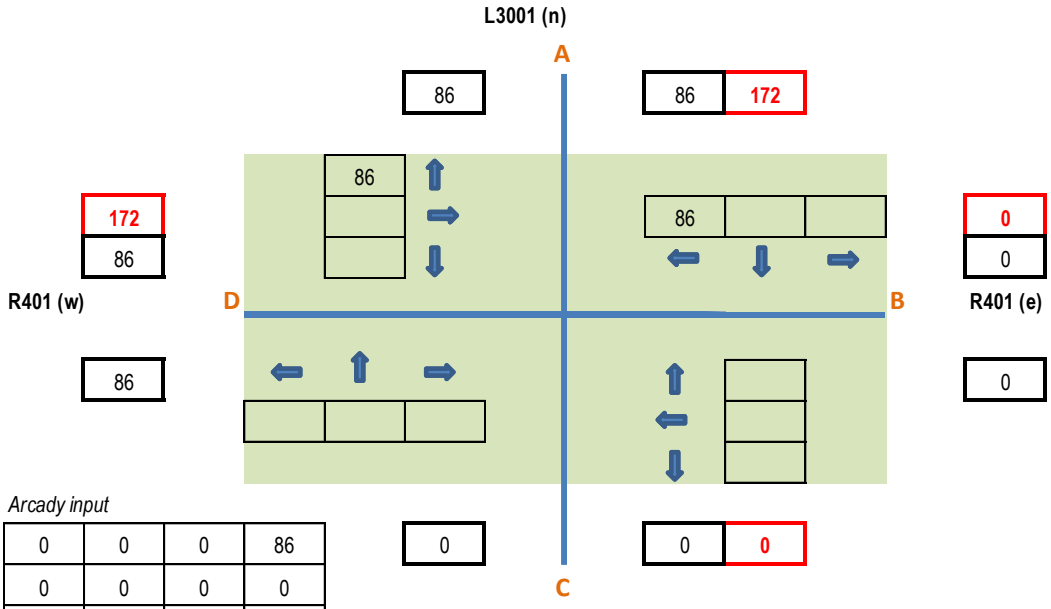


Arcady input

0	0	0	86
0	0	0	0
0	0	0	0
86	0	0	0

All flows in pcus

PM Peak hour - 17:00 to 18:00



Arcady input

0	0	0	86
0	0	0	0
0	0	0	0
86	0	0	0

All flows in pcus

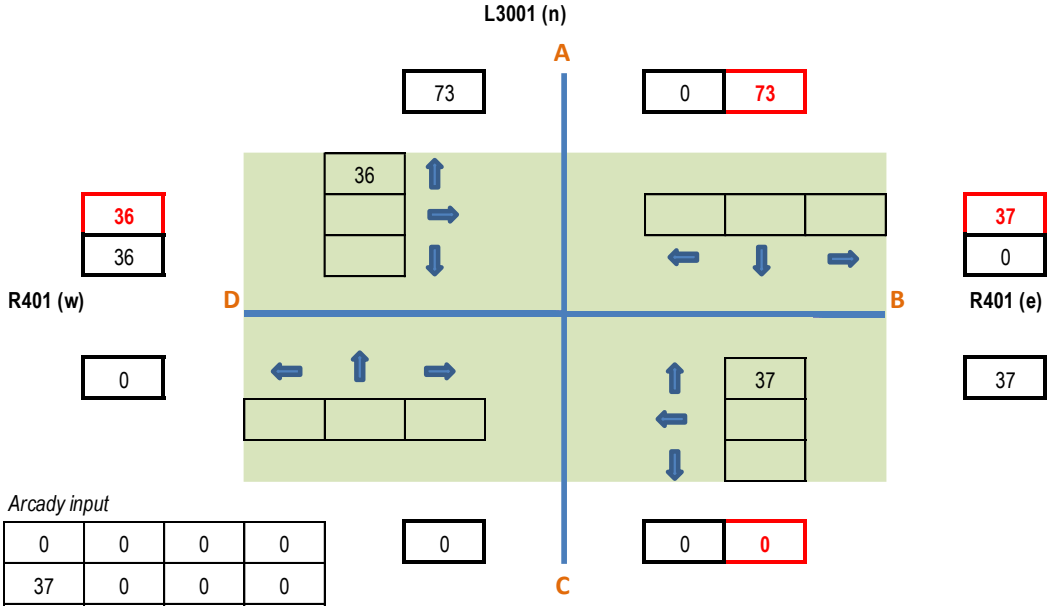
Figure A15-6-14c

Existing junction E, R401 / L3001 roundabout, Rathangan

Development traffic flows (HGV pcus), AM and PM peak hours

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

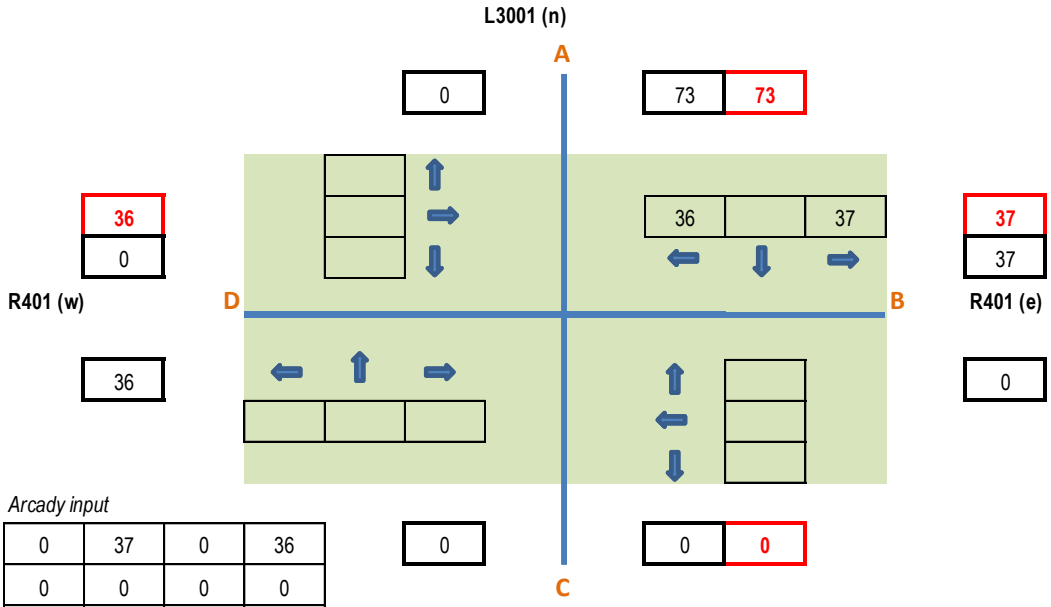


Arcady input

0	0	0	0
37	0	0	0
0	0	0	0
36	0	0	0

All flows in pcus

PM Peak hour - 17:00 to 18:00



Arcady input

0	37	0	36
0	0	0	0
0	0	0	0
0	0	0	0

All flows in pcus

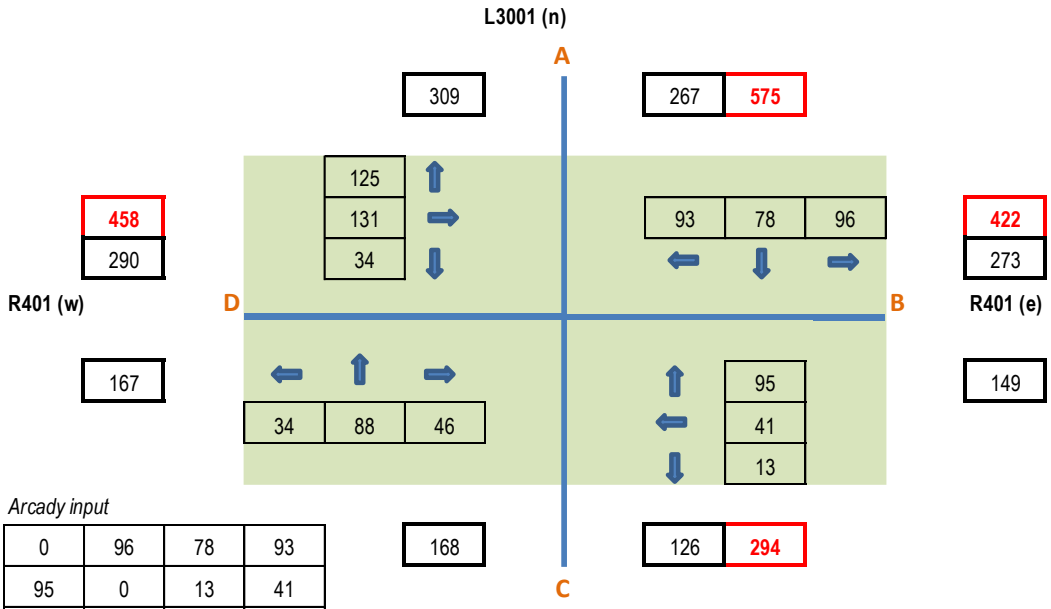
Figure A15-6-14d

Existing junction E, R401 / L3001 roundabout, Rathangan

Development traffic flows (staff cars), AM and PM peak hours

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

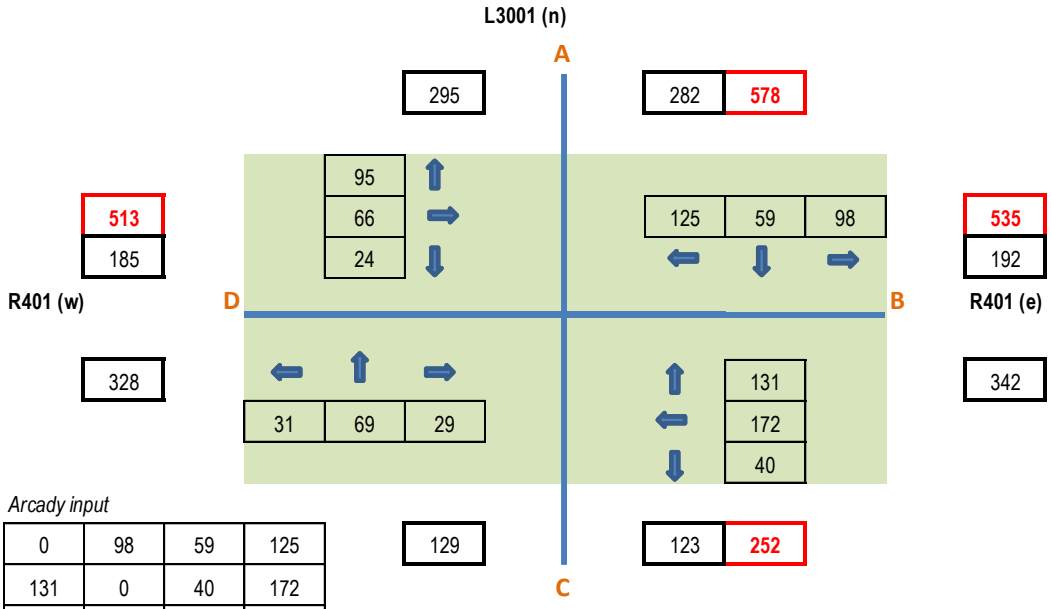


Arcady input

0	96	78	93
95	0	13	41
88	46	0	34
125	131	34	0

All flows in pcus

PM Peak hour - 17:00 to 18:00



Arcady input

0	98	59	125
131	0	40	172
69	29	0	31
95	66	24	0

All flows in pcus

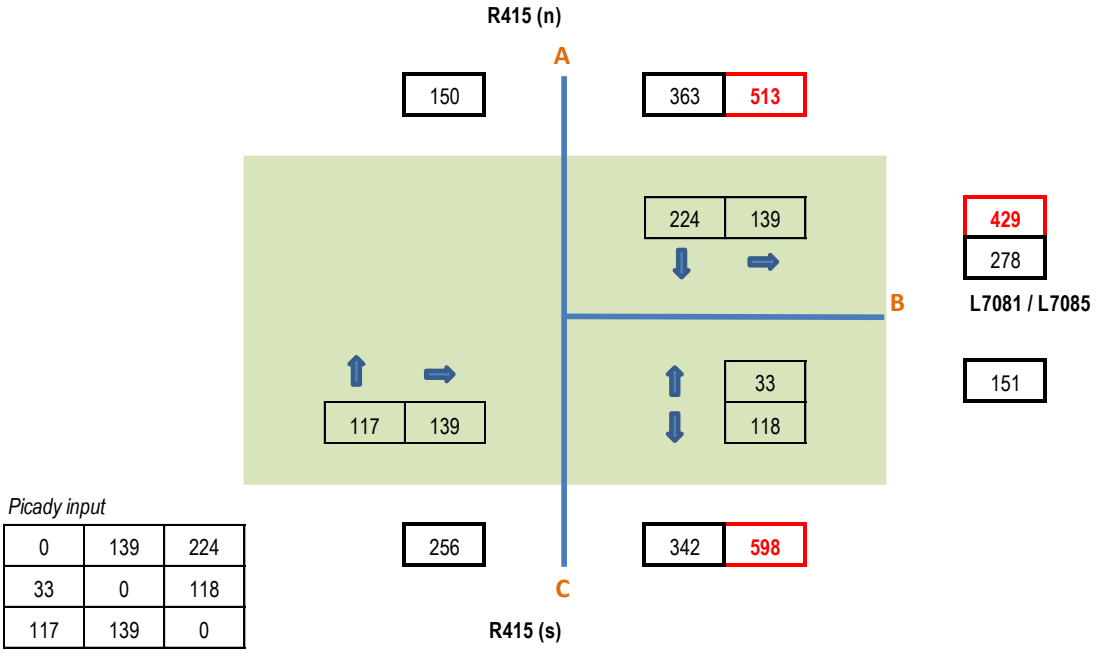
Figure A15-6-14e

Existing junction E, R401 / L3001 roundabout, Rathangan

With construction traffic flows, AM and PM peak hours, Year 2032

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

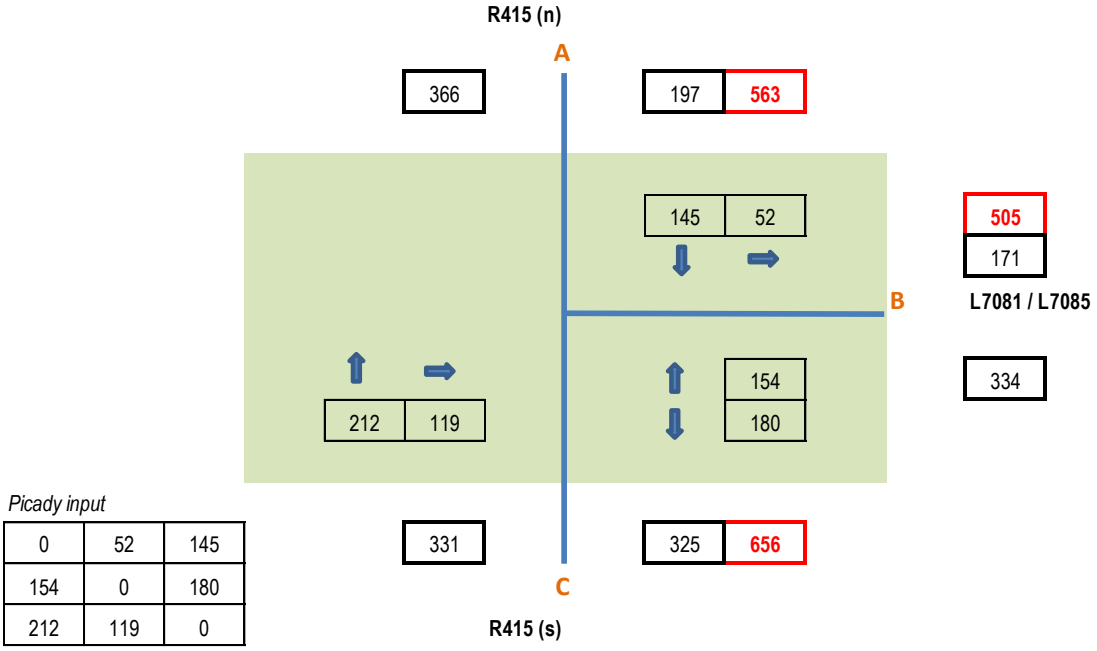


Picady input

0	139	224
33	0	118
117	139	0

All flows in pcus

PM Peak hour - 17:00 to 18:00



Picady input

0	52	145
154	0	180
212	119	0

All flows in pcus

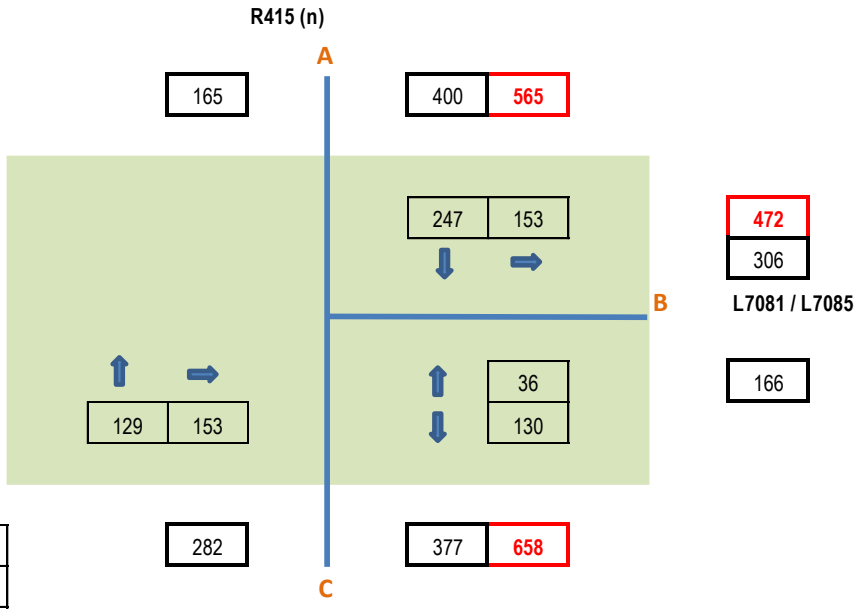
Figure A15-6-15a

Existing junction F, R415 / L7081 junction, Kilmeague

Observed traffic flows, AM and PM peak hours, Year 2025

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

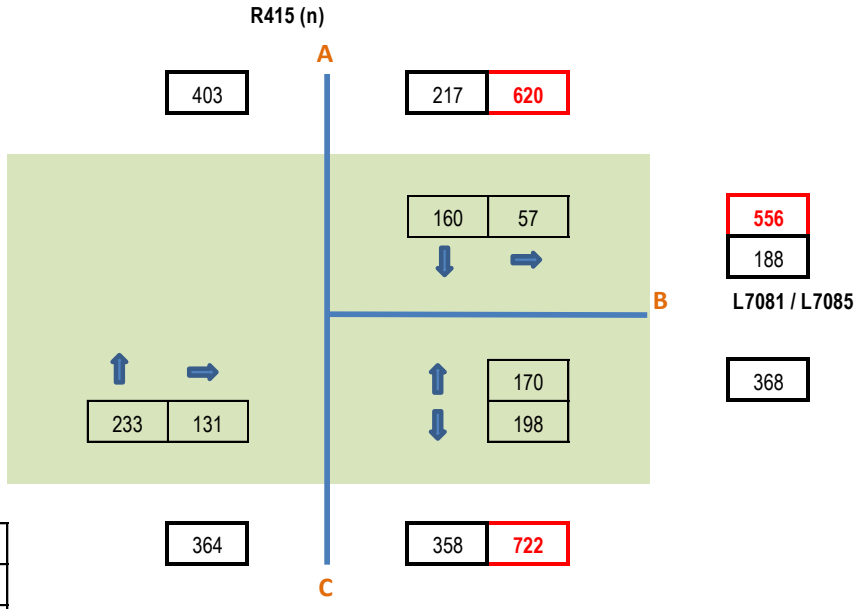


Picady input

0	153	247
36	0	130
129	153	0

All flows in pcus

PM Peak hour - 17:00 to 18:00



Picady input

0	57	160
170	0	198
233	131	0

All flows in pcus

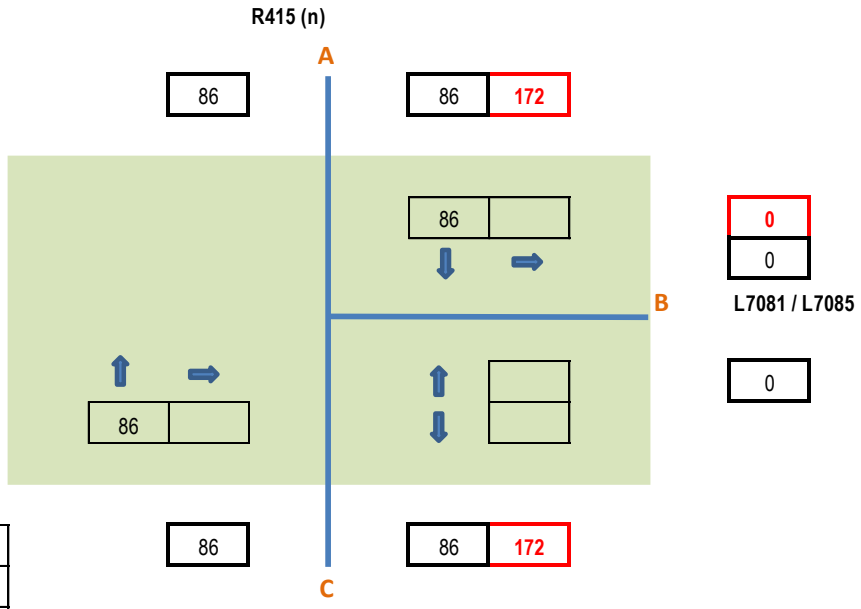
Figure A15-6-15b

Existing junction F, R415 / L7081 junction, Kilmeague

Background traffic flows, AM and PM peak hours, Year 2032

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

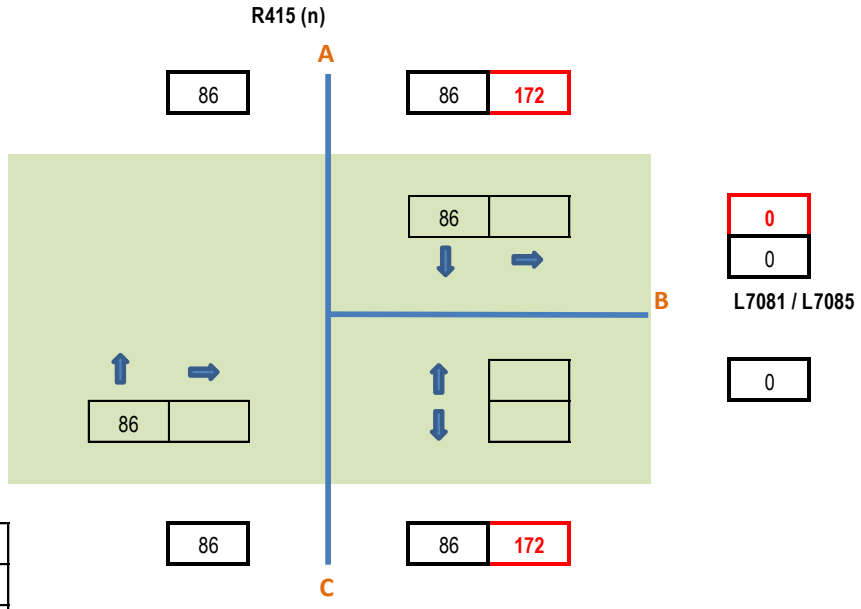


Picady input

0	0	86
0	0	0
86	0	0

All flows in pcus

PM Peak hour - 17:00 to 18:00



Picady input

0	0	86
0	0	0
86	0	0

All flows in pcus

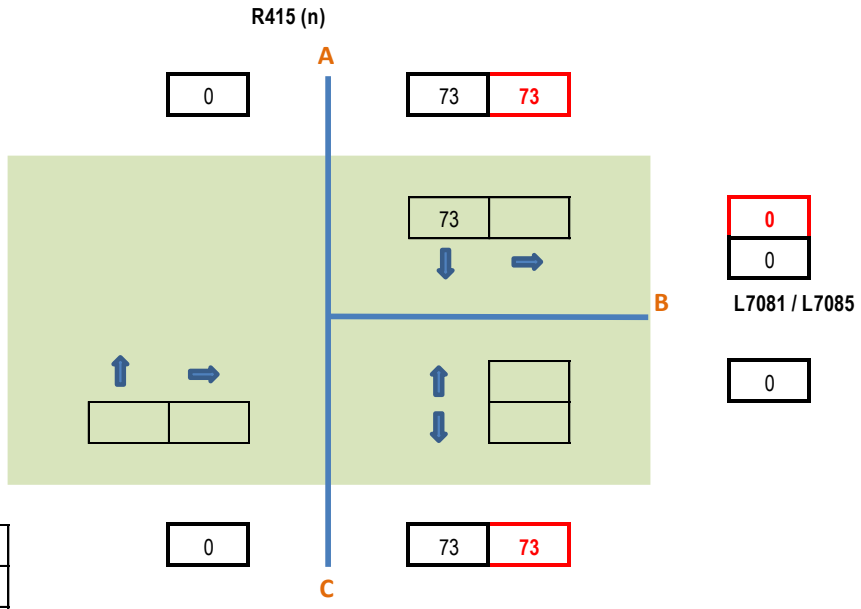
Figure A15-6-15c

Existing junction F, R415 / L7081 junction, Kilmeague

Development traffic flows (HGV pcus), AM and PM peak hours

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

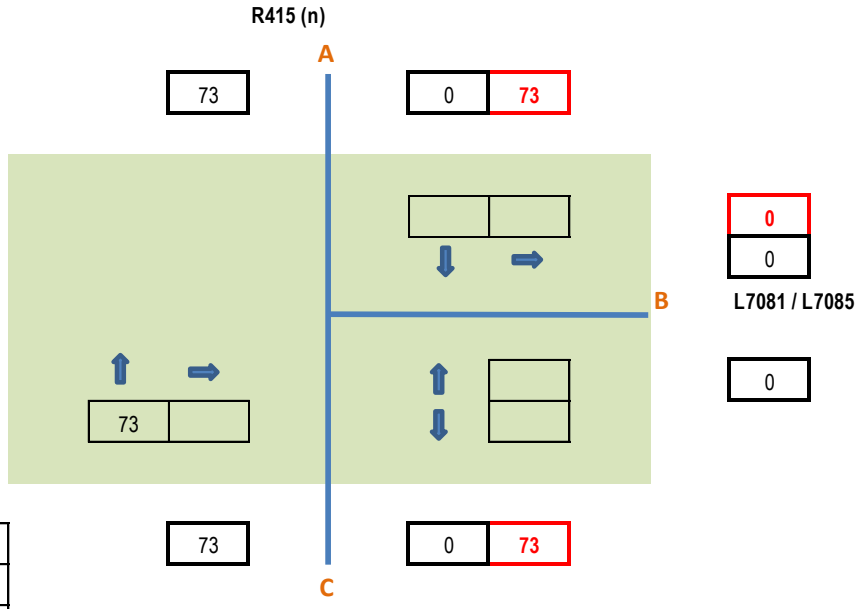


Picady input

0	0	73
0	0	0
0	0	0

All flows in pcus

PM Peak hour - 17:00 to 18:00



Picady input

0	0	0
0	0	0
73	0	0

All flows in pcus

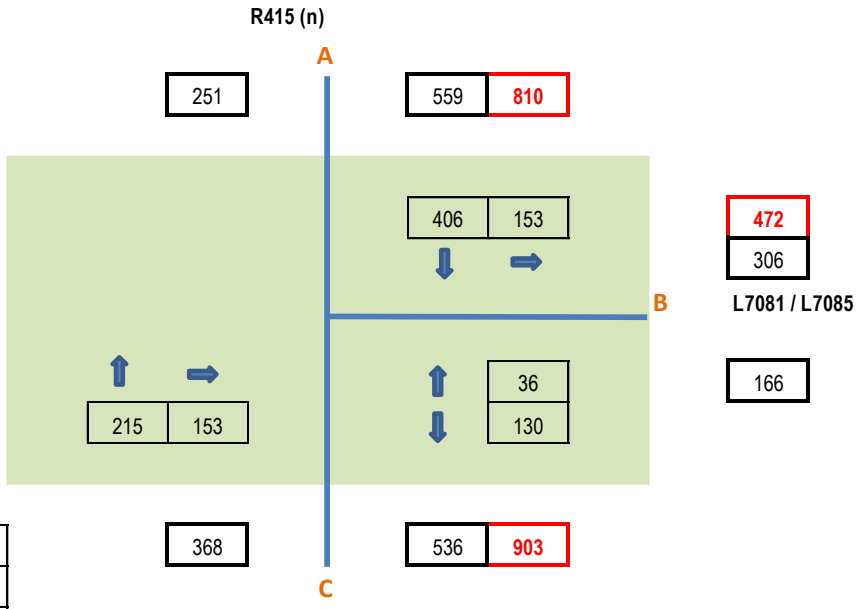
Figure A15-6-15d

Existing junction F, R415 / L7081 junction, Kilmeague

Development traffic flows (staff cars), AM and PM peak hours

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

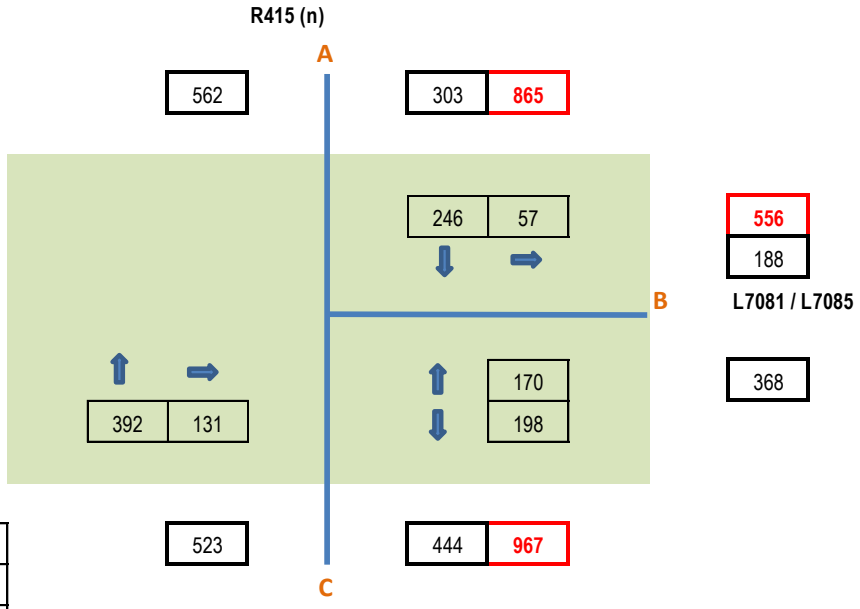


Picady input

0	153	406
36	0	130
215	153	0

All flows in pcus

PM Peak hour - 17:00 to 18:00



Picady input

0	57	246
170	0	198
392	131	0

All flows in pcus

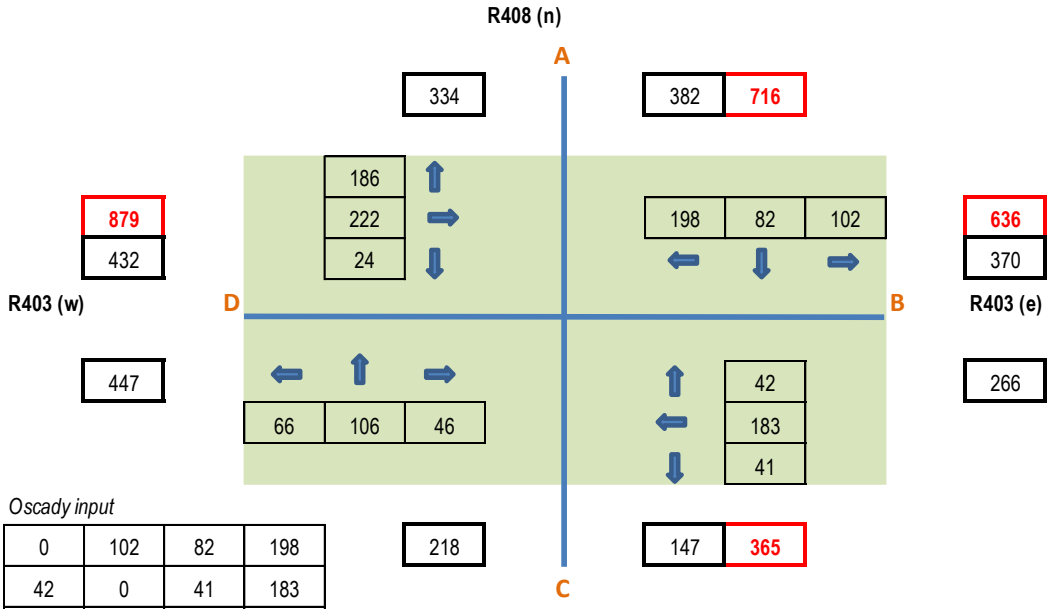
Figure A15-6-15e

Existing junction F, R415 / L7081 junction, Kilmeague

With construction traffic flows, AM and PM peak hours, Year 2032

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

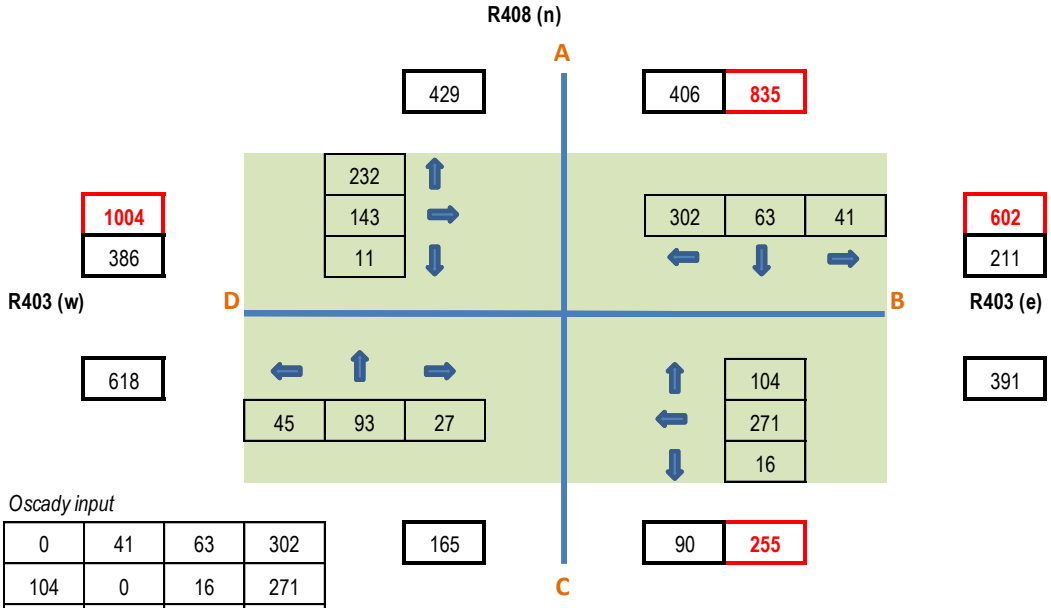


Oscady input

0	102	82	198
42	0	41	183
106	46	0	66
186	222	24	0

All flows in pcus

PM Peak hour - 17:00 to 18:00



Oscady input

0	41	63	302
104	0	16	271
93	27	0	45
232	143	11	0

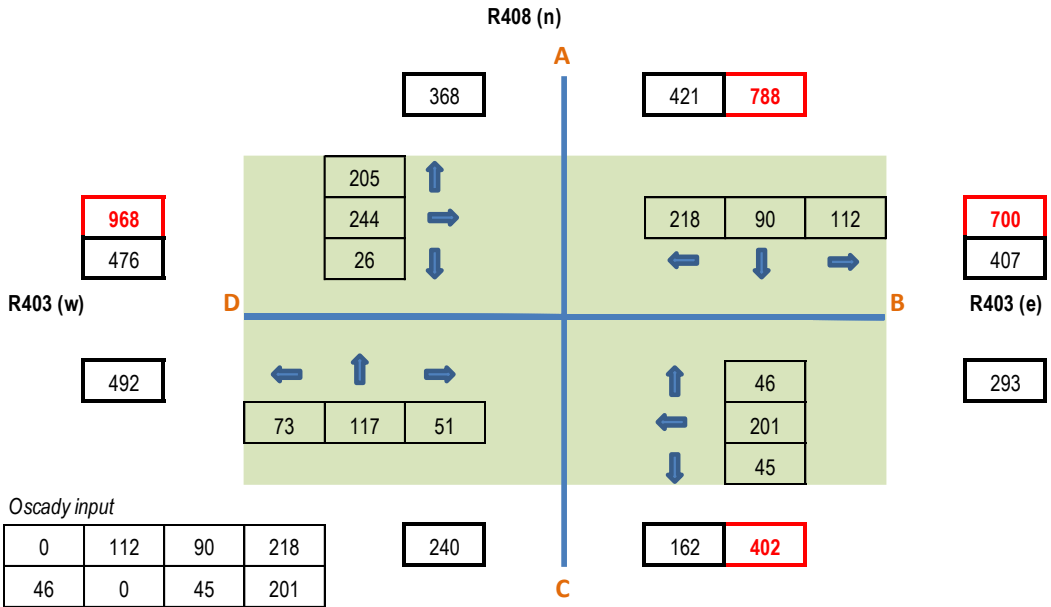
All flows in pcus

Figure A15-6-16a

Existing junction G, R408 / R403 / L6002 junction, Prosperous

Observed traffic flows, AM and PM peak hours, Year 2025

AM Peak hour - 08:00 to 09:00

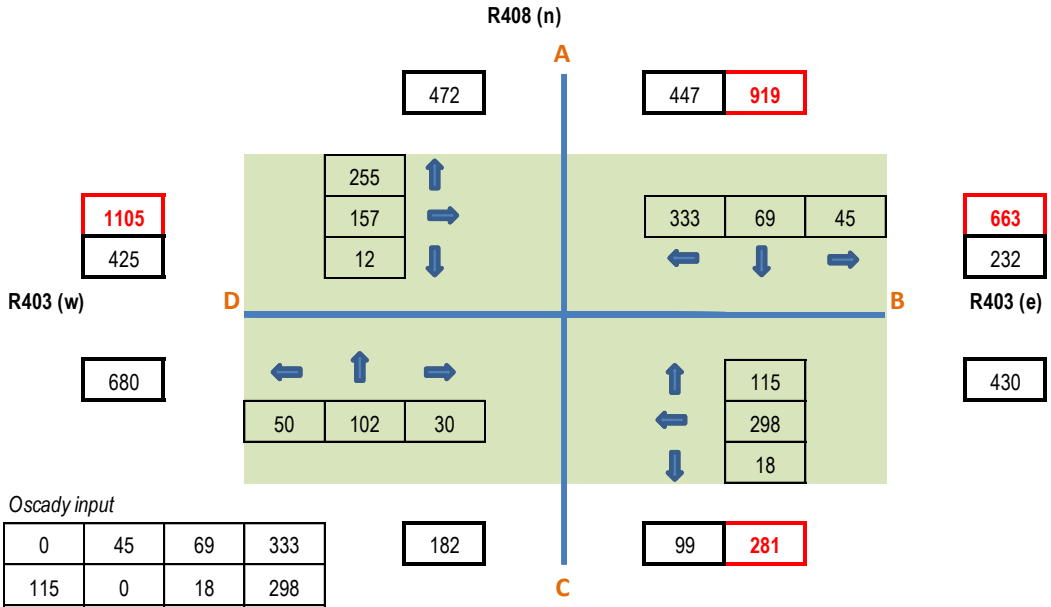


Oscady input

0	112	90	218
46	0	45	201
117	51	0	73
205	244	26	0

All flows in pcus

PM Peak hour - 17:00 to 18:00



Oscady input

0	45	69	333
115	0	18	298
102	30	0	50
255	157	12	0

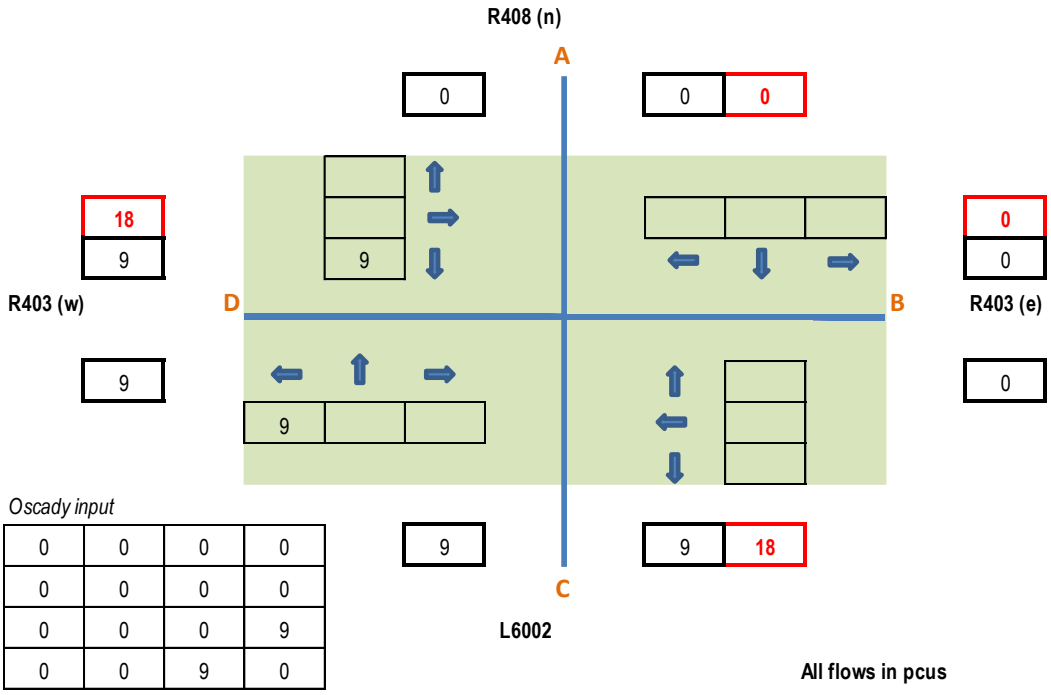
All flows in pcus

Figure A15-6-16b

Existing junction G, R408 / R403 / L6002 junction, Prosperous

Background traffic flows, AM and PM peak hours, Year 2032

AM Peak hour - 08:00 to 09:00

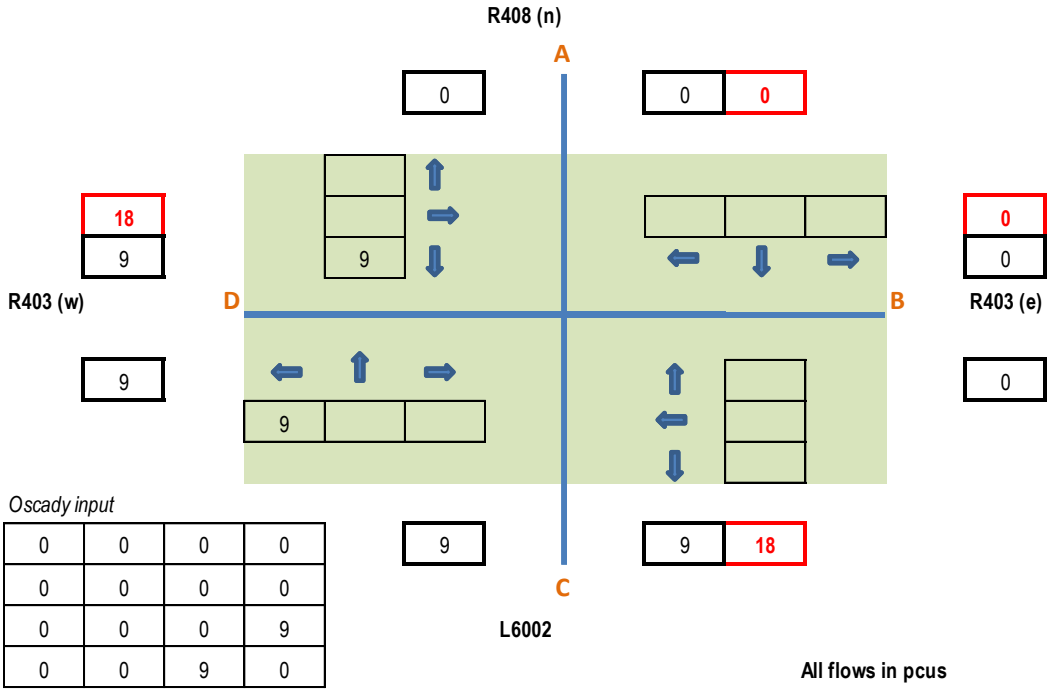


Oscady input

0	0	0	0
0	0	0	0
0	0	0	9
0	0	9	0

All flows in pcus

PM Peak hour - 17:00 to 18:00



Oscady input

0	0	0	0
0	0	0	0
0	0	0	9
0	0	9	0

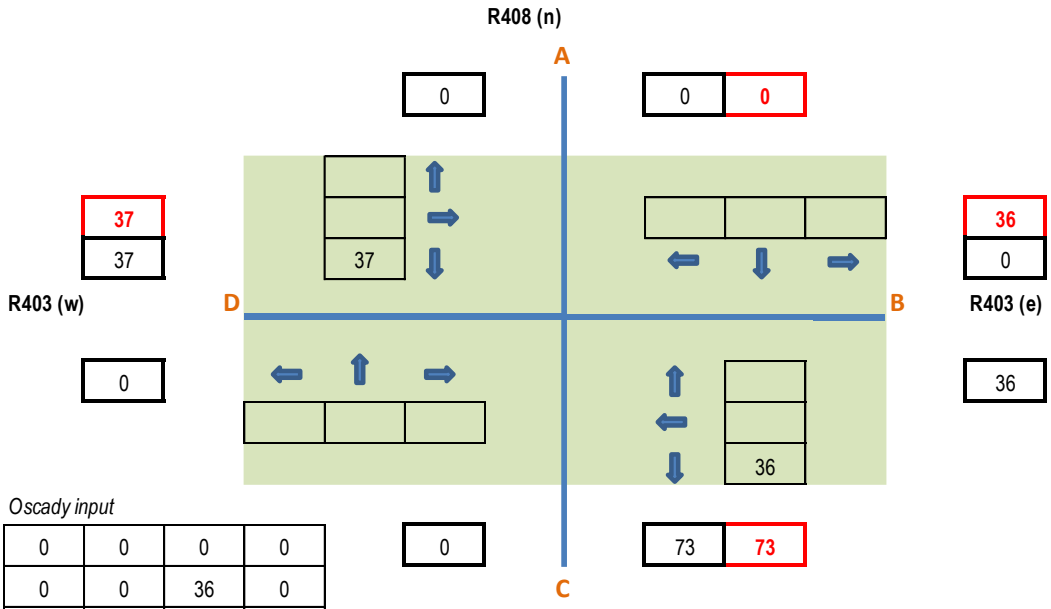
All flows in pcus

Figure A15-6-16c

Existing junction G, R408 / R403 / L6002 junction, Prosperous Development traffic flows (HGV pcus), AM and PM peak hours

Ballydermot Wind Farm - 19/06/2026

AM Peak hour - 08:00 to 09:00

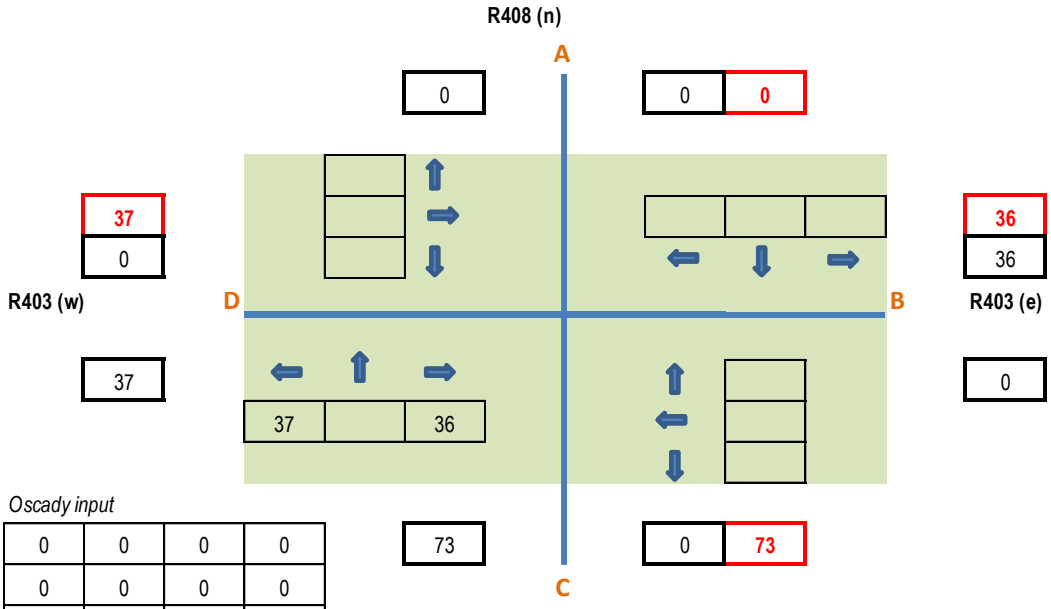


Oscady input

0	0	0	0
0	0	36	0
0	0	0	0
0	0	37	0

All flows in pcus

PM Peak hour - 17:00 to 18:00



Oscady input

0	0	0	0
0	0	0	0
0	36	0	37
0	0	0	0

All flows in pcus

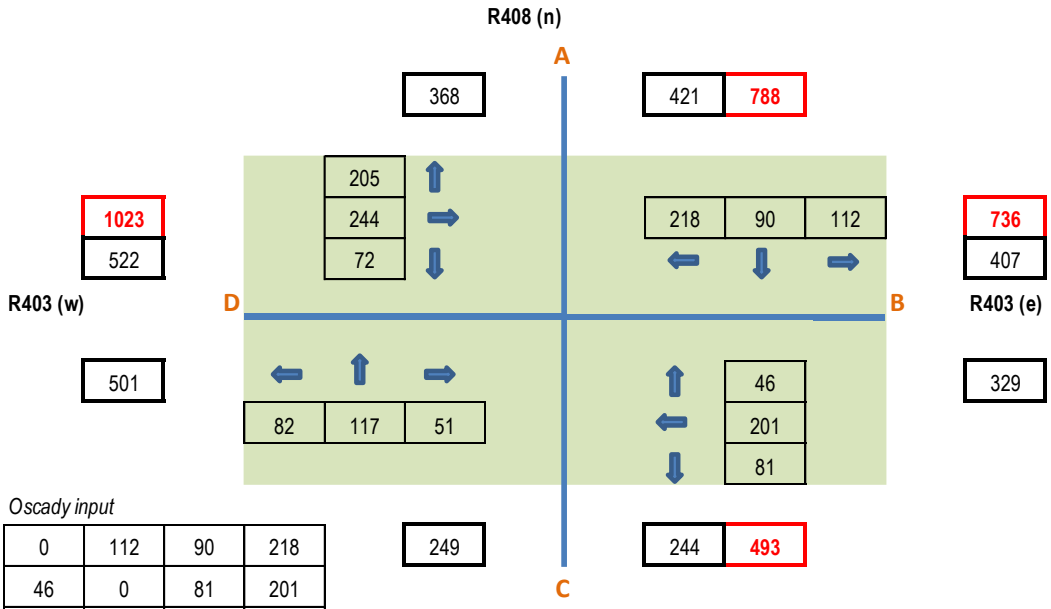
Figure A15-6-16d

Existing junction G, R408 / R403 / L6002 junction, Prosperous

Development traffic flows (staff cars), AM and PM peak hours

Ballydermot Wind Farm - 19/06/2026

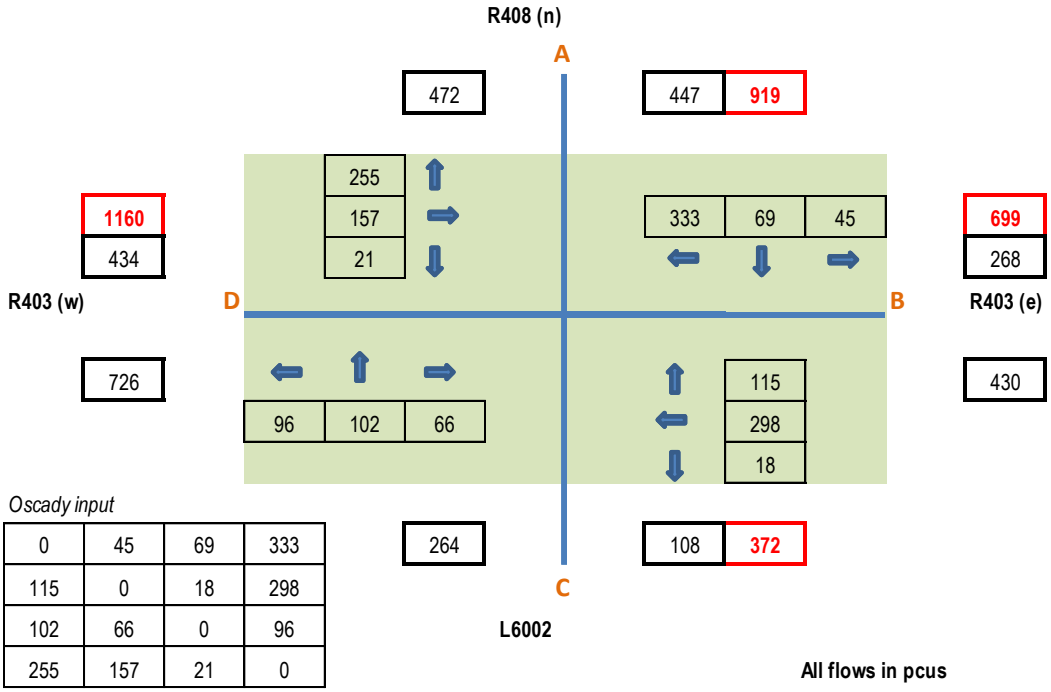
AM Peak hour - 08:00 to 09:00



Oscady input

0	112	90	218
46	0	81	201
117	51	0	82
205	244	72	0

PM Peak hour - 17:00 to 18:00



Oscady input

0	45	69	333
115	0	18	298
102	66	0	96
255	157	21	0

Figure A15-6-16e

Existing junction G, R408 / R403 / L6002 junction, Prosperous

With construction traffic flows, AM and PM peak hours, Year 2032

Ballydermot Wind Farm - 19/06/2026

Access junction 1, Site entrance A – R401, PICADY11 output

Junctions 11

PICADY 11 - Priority Intersection Module

Version: 11.1.1.2424
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Filename: Junction 1_Access A.j11
Path: C:\AL Files\AL traffic Jobs Live\8571 - Ballydermot 2025\Picady
Report generation date: 11/10/2026 15:33:16

»Proposed - D1 - 2032 | No Dev | AM
»Proposed - D2 - 2032 | With Dev | AM
»Proposed - D3 - 2032 | No Dev] | PM
»Proposed - D4 - 2032 | With Dev | PM

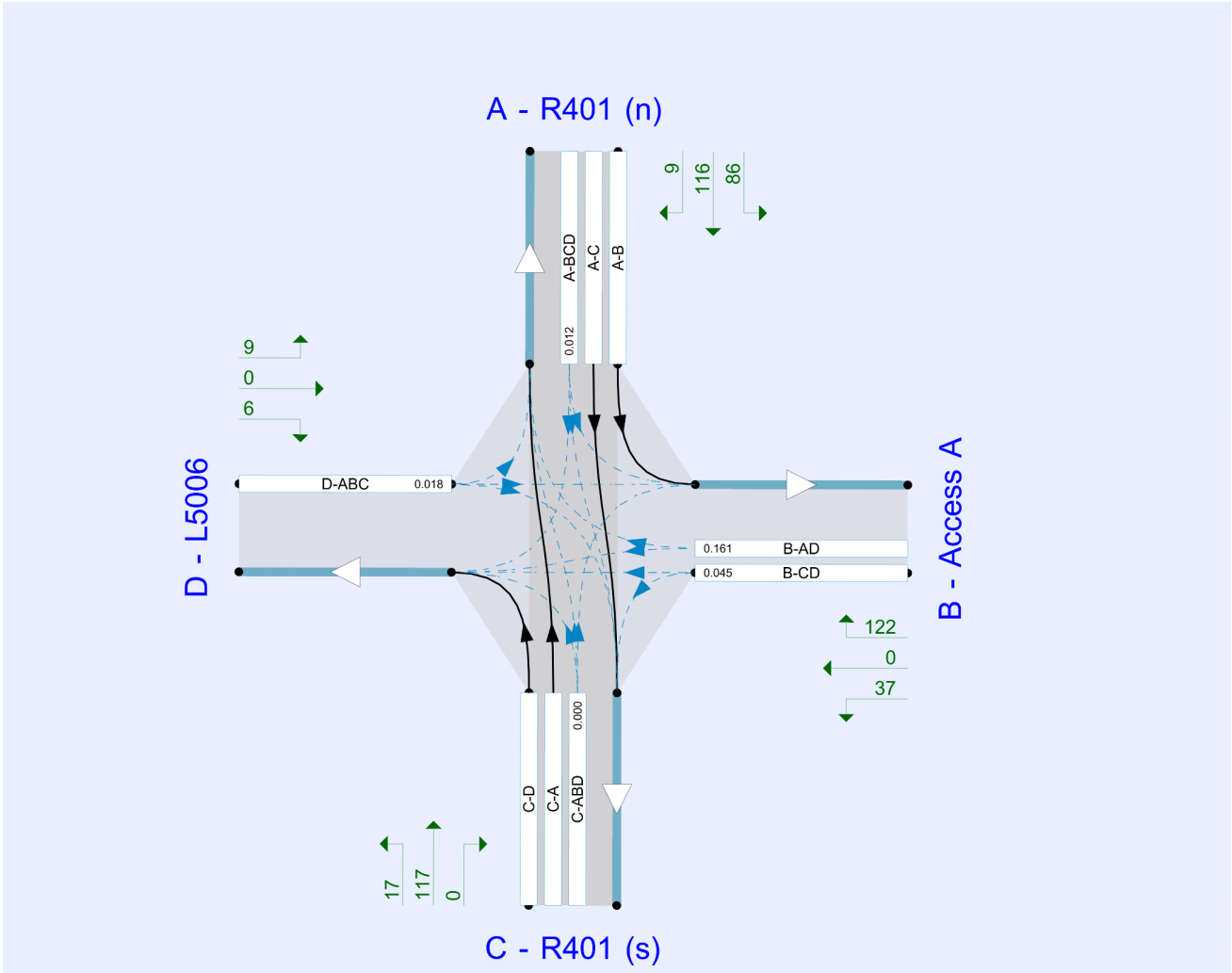
File summary

File Description

Title	Access junction 1, Site Entrance A - R401
Location	Ballydermot Wind Farm
Site number	
Date	30/06/2026
Version	
Status	(new file)
Identifier	
Client	Bord na Mona
Jobnumber	8571
Enumerator	Alan Lipscombe
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Av. delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin



Flows show original traffic demand (PCU/hr)
Streams (downstream end) show RFC ()

The junction diagram reflects the last run of Junctions.

Analysis Options

PICADY short flare model	Calculate Q Percentiles	Calculate residual capacity	Residual capacity criteria type	RFC Threshold	Av. Delay threshold (s)	Q threshold (PCU)
JUNCTIONS 11.1	✓	✓	Delay	0.85	36.00	20.00

Demand Set Summary

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2032	No Dev	AM	ONE HOUR	07:45	09:15	15
D2	2032	With Dev	AM	ONE HOUR	07:45	09:15	15
D3	2032	No Dev]	PM	ONE HOUR	16:45	18:15	15
D4	2032	With Dev	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Name	Network flow scaling factor (%)
A1	Proposed	100.000

Proposed - D1 - 2032 | No Dev | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Access A - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.
Warning	Queue variations	Analysis Options	Q Variations cannot be calculated for crossroads.
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Junction Delay (s)	Junction LOS
1	Access Junction	Crossroads	Two-way	Two-way	Two-way	Two-way	0.85	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	583	Stream D-ABC	0.85	A

Arms

Arms

Arm	Name	Description	Arm type
A	R401 (n)		Major
B	Access A		Minor
C	R401 (s)		Major
D	L5006		Minor

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
A - R401 (n)	7.30			120.0	✓	0.00
C - R401 (s)	7.30			120.0	✓	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)	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate flare length	Flare length (PCU)	Visibility to left (m)	Visibility to right (m)
B - Access A	One lane plus flare		10.00	8.20	6.20	4.50	3.20	✓	2.00	100	100
D - L5006	One lane	3.50								100	100

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for A-D	Slope for B-A	Slope for B-C	Slope for B-D	Slope for C-A	Slope for C-B	Slope for C-D	Slope for D-A	Slope for D-B	Slope for D-C
A-D	643	-	-	-	-	-	-	0.235	0.336	0.235	-	-	-
B-A	586	0.101	0.254	0.254	-	-	-	0.160	0.363	-	0.254	0.254	0.127
B-C	717	0.104	0.262	-	-	-	-	-	-	-	-	-	-
B-D, nearside lane	586	0.101	0.254	0.254	-	-	-	0.160	0.363	0.160	-	-	-
B-D, offside lane	586	0.101	0.254	0.254	-	-	-	0.160	0.363	0.160	-	-	-
C-B	643	0.235	0.235	0.336	-	-	-	-	-	-	-	-	-
D-A	721	-	-	-	-	-	-	0.264	-	0.104	-	-	-
D-B, nearside lane	589	0.161	0.161	0.365	-	-	-	0.256	0.256	0.101	-	-	-
D-B, offside lane	589	0.161	0.161	0.365	-	-	-	0.256	0.256	0.101	-	-	-
D-C	589	-	0.161	0.365	0.128	0.256	0.256	0.256	0.256	0.101	-	-	-

The slopes and intercepts shown above include custom intercept adjustments only.

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	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2032	No Dev	AM	ONE HOUR	07:45	09:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - R401 (n)		✓	120	100.000
B - Access A		✓	0	100.000
C - R401 (s)		✓	123	100.000
D - L5006		✓	22	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - R401 (n)	B - Access A	C - R401 (s)	D - L5006
From	A - R401 (n)	0	0	107	13
	B - Access A	0	0	0	0
	C - R401 (s)	110	0	0	13
	D - L5006	9	0	13	0

Vehicle Mix

Heavy Vehicle %

		To			
		A - R401 (n)	B - Access A	C - R401 (s)	D - L5006
From	A - R401 (n)	0	5	5	0
	B - Access A	5	0	5	0
	C - R401 (s)	5	5	0	0
	D - L5006	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
B-CD	0.00	0.00	0.0	~1	A
B-AD	0.00	0.00	0.0	~1	A
A-BCD	0.03	5.46	0.0	0.5	A
A-B					
A-C					
D-ABC	0.04	6.40	0.0	0.5	A
C-ABD	0.00	0.00	0.0	~1	A
C-D					
C-A					

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	0	0.00	613	0.000	0	0.0	0.000	A
B-AD	0	0.00	547	0.000	0	0.0	0.000	A
A-BCD	11	0.00	674	0.016	11	0.0	5.457	A
A-B	0	0.00			0			
A-C	79	0.00			79			
D-ABC	17	0.00	602	0.027	16	0.0	6.143	A
C-ABD	0	0.00	621	0.000	0	0.0	0.000	A
C-D	10	0.00			10			
C-A	83	0.00			83			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	0	0.00	607	0.000	0	0.0	0.000	A
B-AD	0	0.00	540	0.000	0	0.0	0.000	A
A-BCD	14	0.00	681	0.020	14	0.0	5.430	A
A-B	0	0.00			0			
A-C	94	0.00			94			
D-ABC	20	0.00	596	0.033	20	0.0	6.249	A
C-ABD	0	0.00	617	0.000	0	0.0	0.000	A
C-D	12	0.00			12			
C-A	99	0.00			99			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	0	0.00	598	0.000	0	0.0	0.000	A
B-AD	0	0.00	529	0.000	0	0.0	0.000	A
A-BCD	17	0.00	689	0.025	17	0.0	5.396	A
A-B	0	0.00			0			
A-C	115	0.00			115			
D-ABC	24	0.00	586	0.041	24	0.0	6.402	A
C-ABD	0	0.00	611	0.000	0	0.0	0.000	A
C-D	14	0.00			14			
C-A	121	0.00			121			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	0	0.00	598	0.000	0	0.0	0.000	A
B-AD	0	0.00	529	0.000	0	0.0	0.000	A
A-BCD	17	0.00	689	0.025	17	0.0	5.400	A
A-B	0	0.00			0			
A-C	115	0.00			115			
D-ABC	24	0.00	586	0.041	24	0.0	6.402	A
C-ABD	0	0.00	611	0.000	0	0.0	0.000	A
C-D	14	0.00			14			
C-A	121	0.00			121			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	0	0.00	607	0.000	0	0.0	0.000	A
B-AD	0	0.00	540	0.000	0	0.0	0.000	A
A-BCD	14	0.00	681	0.020	14	0.0	5.440	A
A-B	0	0.00			0			
A-C	94	0.00			94			
D-ABC	20	0.00	596	0.033	20	0.0	6.250	A
C-ABD	0	0.00	617	0.000	0	0.0	0.000	A
C-D	12	0.00			12			
C-A	99	0.00			99			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	0	0.00	613	0.000	0	0.0	0.000	A
B-AD	0	0.00	547	0.000	0	0.0	0.000	A
A-BCD	11	0.00	674	0.017	11	0.0	5.464	A
A-B	0	0.00			0			
A-C	79	0.00			79			
D-ABC	17	0.00	602	0.027	17	0.0	6.144	A
C-ABD	0	0.00	621	0.000	0	0.0	0.000	A
C-D	10	0.00			10			
C-A	83	0.00			83			

Q Variation Results for each time segment

07:45 - 08:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-CD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-AD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-ABC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:00 - 08:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-CD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-AD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.02	0.02	0.25	0.46	0.48			N/A	N/A
D-ABC	0.03	0.03	0.25	0.45	0.48			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:15 - 08:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-CD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-AD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.03	0.00	0.00	0.03	0.03			N/A	N/A
D-ABC	0.04	0.03	0.25	0.46	0.48			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:30 - 08:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-CD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-AD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.03	0.00	0.00	0.03	0.03			N/A	N/A
D-ABC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:45 - 09:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-CD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-AD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-ABC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

09:00 - 09:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-CD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-AD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-ABC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

Proposed - D2 - 2032 | With Dev | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Access A - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.
Warning	Queue variations	Analysis Options	Q Variations cannot be calculated for crossroads.
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Junction Delay (s)	Junction LOS
1	Access Junction	Crossroads	Two-way	Two-way	Two-way	Two-way	2.40	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	186	Stream B-AD	2.40	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2032	With Dev	AM	ONE HOUR	07:45	09:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - R401 (n)		✓	242	100.000
B - Access A		✓	86	100.000
C - R401 (s)		✓	160	100.000
D - L5006		✓	22	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - R401 (n)	B - Access A	C - R401 (s)	D - L5006
From	A - R401 (n)	0	122	107	13
	B - Access A	86	0	0	0
	C - R401 (s)	110	37	0	13
	D - L5006	9	0	13	0

Vehicle Mix

Heavy Vehicle %

		To			
		A - R401 (n)	B - Access A	C - R401 (s)	D - L5006
From	A - R401 (n)	0	5	5	0
	B - Access A	5	0	5	0
	C - R401 (s)	5	5	0	0
	D - L5006	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
B-CD	0.00	0.00	0.0	~1	A
B-AD	0.17	8.26	0.2	0.7	A
A-BCD	0.03	5.11	0.0	0.5	A
A-B					
A-C					
D-ABC	0.04	6.60	0.0	0.5	A
C-ABD	0.08	6.09	0.1	0.6	A
C-D					
C-A					

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	0	0.00	520	0.000	0	0.0	0.000	A
B-AD	65	0.00	582	0.111	64	0.1	7.285	A
A-BCD	13	0.00	726	0.018	13	0.0	5.104	A
A-B	90	0.00			90			
A-C	79	0.00			79			
D-ABC	17	0.00	591	0.028	16	0.0	6.259	A
C-ABD	32	0.00	661	0.049	32	0.1	6.002	A
C-D	9	0.00			9			
C-A	79	0.00			79			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	0	0.00	508	0.000	0	0.0	0.000	A
B-AD	77	0.00	570	0.136	77	0.2	7.671	A
A-BCD	16	0.00	743	0.022	16	0.0	5.016	A
A-B	107	0.00			107			
A-C	94	0.00			94			
D-ABC	20	0.00	582	0.034	20	0.0	6.398	A
C-ABD	40	0.00	665	0.060	40	0.1	6.038	A
C-D	11	0.00			11			
C-A	93	0.00			93			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	0	0.00	492	0.000	0	0.0	0.000	A
B-AD	95	0.00	552	0.171	94	0.2	8.252	A
A-BCD	21	0.00	766	0.028	21	0.0	4.904	A
A-B	131	0.00			131			
A-C	115	0.00			115			
D-ABC	24	0.00	570	0.043	24	0.0	6.595	A
C-ABD	51	0.00	671	0.076	51	0.1	6.089	A
C-D	13	0.00			13			
C-A	112	0.00			112			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	0	0.00	492	0.000	0	0.0	0.000	A
B-AD	95	0.00	552	0.171	95	0.2	8.259	A
A-BCD	21	0.00	766	0.028	21	0.0	4.912	A
A-B	131	0.00			131			
A-C	115	0.00			115			
D-ABC	24	0.00	570	0.043	24	0.0	6.596	A
C-ABD	51	0.00	671	0.076	51	0.1	6.093	A
C-D	13	0.00			13			
C-A	112	0.00			112			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	0	0.00	508	0.000	0	0.0	0.000	A
B-AD	77	0.00	570	0.136	78	0.2	7.684	A
A-BCD	16	0.00	743	0.022	16	0.0	5.031	A
A-B	107	0.00			107			
A-C	94	0.00			94			
D-ABC	20	0.00	582	0.034	20	0.0	6.402	A
C-ABD	40	0.00	665	0.060	40	0.1	6.043	A
C-D	11	0.00			11			
C-A	93	0.00			93			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	0	0.00	520	0.000	0	0.0	0.000	A
B-AD	65	0.00	582	0.111	65	0.1	7.309	A
A-BCD	13	0.00	726	0.018	13	0.0	5.113	A
A-B	90	0.00			90			
A-C	79	0.00			79			
D-ABC	17	0.00	591	0.028	17	0.0	6.266	A
C-ABD	32	0.00	661	0.049	33	0.1	6.006	A
C-D	9	0.00			9			
C-A	79	0.00			79			

Q Variation Results for each time segment

07:45 - 08:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-CD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-AD	0.13	0.00	0.00	0.13	0.13			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-ABC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-ABD	0.07	0.00	0.00	0.07	0.07			N/A	N/A

08:00 - 08:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-CD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-AD	0.16	0.00	0.00	0.16	0.16			N/A	N/A
A-BCD	0.03	0.03	0.25	0.46	0.48			N/A	N/A
D-ABC	0.03	0.03	0.25	0.45	0.48			N/A	N/A
C-ABD	0.08	0.03	0.26	0.48	0.50			N/A	N/A

08:15 - 08:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-CD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-AD	0.21	0.03	0.27	0.48	0.51			N/A	N/A
A-BCD	0.04	0.00	0.00	0.04	0.04			N/A	N/A
D-ABC	0.04	0.03	0.25	0.46	0.48			N/A	N/A
C-ABD	0.11	0.03	0.28	0.50	0.60			N/A	N/A

08:30 - 08:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-CD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-AD	0.22	0.03	0.28	0.50	0.75			N/A	N/A
A-BCD	0.04	0.00	0.00	0.04	0.04			N/A	N/A
D-ABC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
C-ABD	0.11	0.00	0.00	0.11	0.11			N/A	N/A

08:45 - 09:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-CD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-AD	0.17	0.00	0.00	0.17	0.17			N/A	N/A
A-BCD	0.03	0.00	0.00	0.03	0.03			N/A	N/A
D-ABC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
C-ABD	0.09	0.00	0.00	0.09	0.09			N/A	N/A

09:00 - 09:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-CD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-AD	0.13	0.00	0.00	0.13	0.13			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-ABC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-ABD	0.07	0.00	0.00	0.07	0.07			N/A	N/A

Proposed - D3 - 2032 | No Dev] | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Access A - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.
Warning	Queue variations	Analysis Options	Q Variations cannot be calculated for crossroads.
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Junction Delay (s)	Junction LOS
1	Access Junction	Crossroads	Two-way	Two-way	Two-way	Two-way	0.54	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	672	Stream D-ABC	0.54	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D3	2032	No Dev]	PM	ONE HOUR	16:45	18:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - R401 (n)		✓	125	100.000
B - Access A		✓	0	100.000
C - R401 (s)		✓	134	100.000
D - L5006		✓	15	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - R401 (n)	B - Access A	C - R401 (s)	D - L5006
From	A - R401 (n)	0	0	116	9
	B - Access A	0	0	0	0
	C - R401 (s)	117	0	0	17
	D - L5006	9	0	6	0

Vehicle Mix

Heavy Vehicle %

		To			
		A - R401 (n)	B - Access A	C - R401 (s)	D - L5006
From	A - R401 (n)	0	5	5	0
	B - Access A	5	0	5	0
	C - R401 (s)	5	5	0	0
	D - L5006	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
B-CD	0.00	0.00	0.0	~1	A
B-AD	0.00	0.00	0.0	~1	A
A-BCD	0.02	5.42	0.0	0.5	A
A-B					
A-C					
D-ABC	0.03	6.03	0.0	0.5	A
C-ABD	0.00	0.00	0.0	~1	A
C-D					
C-A					

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	0	0.00	611	0.000	0	0.0	0.000	A
B-AD	0	0.00	546	0.000	0	0.0	0.000	A
A-BCD	8	0.00	677	0.011	8	0.0	5.412	A
A-B	0	0.00			0			
A-C	86	0.00			86			
D-ABC	11	0.00	629	0.018	11	0.0	5.829	A
C-ABD	0	0.00	621	0.000	0	0.0	0.000	A
C-D	13	0.00			13			
C-A	88	0.00			88			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	0	0.00	605	0.000	0	0.0	0.000	A
B-AD	0	0.00	538	0.000	0	0.0	0.000	A
A-BCD	10	0.00	684	0.014	10	0.0	5.375	A
A-B	0	0.00			0			
A-C	103	0.00			103			
D-ABC	13	0.00	622	0.022	13	0.0	5.912	A
C-ABD	0	0.00	616	0.000	0	0.0	0.000	A
C-D	15	0.00			15			
C-A	105	0.00			105			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	0	0.00	595	0.000	0	0.0	0.000	A
B-AD	0	0.00	527	0.000	0	0.0	0.000	A
A-BCD	12	0.00	693	0.018	12	0.0	5.328	A
A-B	0	0.00			0			
A-C	125	0.00			125			
D-ABC	17	0.00	613	0.027	16	0.0	6.031	A
C-ABD	0	0.00	610	0.000	0	0.0	0.000	A
C-D	19	0.00			19			
C-A	129	0.00			129			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	0	0.00	595	0.000	0	0.0	0.000	A
B-AD	0	0.00	527	0.000	0	0.0	0.000	A
A-BCD	12	0.00	693	0.018	12	0.0	5.331	A
A-B	0	0.00			0			
A-C	125	0.00			125			
D-ABC	17	0.00	613	0.027	17	0.0	6.031	A
C-ABD	0	0.00	610	0.000	0	0.0	0.000	A
C-D	19	0.00			19			
C-A	129	0.00			129			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	0	0.00	605	0.000	0	0.0	0.000	A
B-AD	0	0.00	538	0.000	0	0.0	0.000	A
A-BCD	10	0.00	684	0.014	10	0.0	5.385	A
A-B	0	0.00			0			
A-C	103	0.00			103			
D-ABC	13	0.00	622	0.022	14	0.0	5.915	A
C-ABD	0	0.00	616	0.000	0	0.0	0.000	A
C-D	15	0.00			15			
C-A	105	0.00			105			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	0	0.00	611	0.000	0	0.0	0.000	A
B-AD	0	0.00	545	0.000	0	0.0	0.000	A
A-BCD	8	0.00	677	0.012	8	0.0	5.418	A
A-B	0	0.00			0			
A-C	86	0.00			86			
D-ABC	11	0.00	629	0.018	11	0.0	5.832	A
C-ABD	0	0.00	621	0.000	0	0.0	0.000	A
C-D	13	0.00			13			
C-A	88	0.00			88			

Q Variation Results for each time segment

16:45 - 17:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-CD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-AD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-ABC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

17:00 - 17:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-CD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-AD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.02	0.02	0.25	0.46	0.48			N/A	N/A
D-ABC	0.02	0.02	0.25	0.45	0.48			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

17:15 - 17:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-CD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-AD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-ABC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

17:30 - 17:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-CD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-AD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-ABC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

17:45 - 18:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-CD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-AD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-ABC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

18:00 - 18:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-CD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-AD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-ABC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

Proposed - D4 - 2032 | With Dev | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Access A - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.
Warning	Queue variations	Analysis Options	Q Variations cannot be calculated for crossroads.
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Junction Delay (s)	Junction LOS
1	Access Junction	Crossroads	Two-way	Two-way	Two-way	Two-way	2.94	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	148	Stream B-AD	2.94	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D4	2032	With Dev	PM	ONE HOUR	16:45	18:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - R401 (n)		✓	211	100.000
B - Access A		✓	159	100.000
C - R401 (s)		✓	134	100.000
D - L5006		✓	15	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - R401 (n)	B - Access A	C - R401 (s)	D - L5006
From	A - R401 (n)	0	86	116	9
	B - Access A	122	0	37	0
	C - R401 (s)	117	0	0	17
	D - L5006	9	0	6	0

Vehicle Mix

Heavy Vehicle %

		To			
		A - R401 (n)	B - Access A	C - R401 (s)	D - L5006
From	A - R401 (n)	0	5	5	0
	B - Access A	5	0	5	0
	C - R401 (s)	5	5	0	0
	D - L5006	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
B-CD	0.07	6.82	0.1	0.5	A
B-AD	0.25	9.18	0.3	1.5	A
A-BCD	0.02	5.12	0.0	0.5	A
A-B					
A-C					
D-ABC	0.03	6.19	0.0	0.5	A
C-ABD	0.00	0.00	0.0	~1	A
C-D					
C-A					

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	28	0.00	623	0.045	28	0.0	6.351	A
B-AD	92	0.00	569	0.161	91	0.2	7.895	A
A-BCD	9	0.00	719	0.012	9	0.0	5.115	A
A-B	64	0.00			64			
A-C	86	0.00			86			
D-ABC	11	0.00	619	0.018	11	0.0	5.926	A
C-ABD	0	0.00	605	0.000	0	0.0	0.000	A
C-D	13	0.00			13			
C-A	88	0.00			88			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	33	0.00	611	0.054	33	0.1	6.539	A
B-AD	110	0.00	559	0.196	109	0.3	8.396	A
A-BCD	11	0.00	735	0.015	11	0.0	5.028	A
A-B	76	0.00			76			
A-C	103	0.00			103			
D-ABC	13	0.00	610	0.022	13	0.0	6.034	A
C-ABD	0	0.00	598	0.000	0	0.0	0.000	A
C-D	15	0.00			15			
C-A	105	0.00			105			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	41	0.00	595	0.068	41	0.1	6.820	A
B-AD	134	0.00	546	0.246	134	0.3	9.163	A
A-BCD	14	0.00	756	0.019	14	0.0	4.916	A
A-B	93	0.00			93			
A-C	125	0.00			125			
D-ABC	17	0.00	598	0.028	16	0.0	6.190	A
C-ABD	0	0.00	588	0.000	0	0.0	0.000	A
C-D	19	0.00			19			
C-A	129	0.00			129			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	41	0.00	595	0.069	41	0.1	6.822	A
B-AD	134	0.00	546	0.246	134	0.3	9.177	A
A-BCD	14	0.00	756	0.019	14	0.0	4.921	A
A-B	93	0.00			93			
A-C	125	0.00			125			
D-ABC	17	0.00	598	0.028	17	0.0	6.190	A
C-ABD	0	0.00	588	0.000	0	0.0	0.000	A
C-D	19	0.00			19			
C-A	129	0.00			129			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	33	0.00	611	0.054	33	0.1	6.543	A
B-AD	110	0.00	560	0.196	110	0.3	8.416	A
A-BCD	11	0.00	735	0.015	11	0.0	5.039	A
A-B	76	0.00			76			
A-C	103	0.00			103			
D-ABC	13	0.00	610	0.022	14	0.0	6.038	A
C-ABD	0	0.00	598	0.000	0	0.0	0.000	A
C-D	15	0.00			15			
C-A	105	0.00			105			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	28	0.00	622	0.045	28	0.0	6.359	A
B-AD	92	0.00	569	0.161	92	0.2	7.928	A
A-BCD	9	0.00	719	0.012	9	0.0	5.120	A
A-B	64	0.00			64			
A-C	86	0.00			86			
D-ABC	11	0.00	619	0.018	11	0.0	5.928	A
C-ABD	0	0.00	605	0.000	0	0.0	0.000	A
C-D	13	0.00			13			
C-A	88	0.00			88			

Q Variation Results for each time segment

16:45 - 17:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-CD	0.05	0.00	0.00	0.05	0.05			N/A	N/A
B-AD	0.20	0.00	0.00	0.20	0.20			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-ABC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

17:00 - 17:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-CD	0.06	0.03	0.26	0.47	0.50			N/A	N/A
B-AD	0.25	0.00	0.00	0.25	0.25			N/A	N/A
A-BCD	0.02	0.02	0.25	0.46	0.48			N/A	N/A
D-ABC	0.02	0.02	0.25	0.45	0.48			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

17:15 - 17:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-CD	0.08	0.03	0.27	0.49	0.52			N/A	N/A
B-AD	0.34	0.03	0.27	0.48	0.51			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-ABC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

17:30 - 17:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-CD	0.08	0.00	0.00	0.08	0.08			N/A	N/A
B-AD	0.34	0.03	0.33	1.19	1.54			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-ABC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

17:45 - 18:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-CD	0.06	0.00	0.00	0.06	0.06			N/A	N/A
B-AD	0.26	0.00	0.00	0.26	0.26			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-ABC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

18:00 - 18:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-CD	0.05	0.00	0.00	0.05	0.05			N/A	N/A
B-AD	0.20	0.00	0.00	0.20	0.20			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-ABC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

Access junction 2, Site entrance B – L3001, PICADY11 output

Junctions 11

PICADY 11 - Priority Intersection Module

Version: 11.1.1.2424
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Filename: Junction 2_Access B.j11
Path: C:\AL Files\AL traffic Jobs Live\8571 - Ballydermot 2025\Picady
Report generation date: 11/10/2026 15:39:16

»Proposed - D1 - 2032 | Dev | AM
»Proposed - D2 - 2032 | Dev | PM

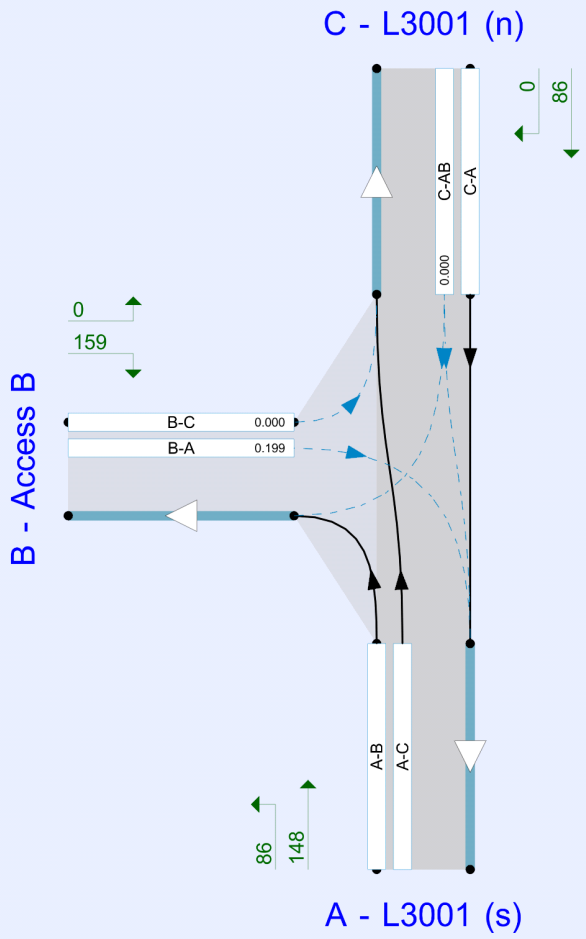
File summary

File Description

Title	Access junction 2, Site Entrance B - L3001
Location	Ballydermot Wind Farm
Site number	
Date	30/06/2026
Version	
Status	(new file)
Identifier	
Client	Bord na Mona
Jobnumber	8571
Enumerator	Alan Lipscombe
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Av. delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin



Flows show original traffic demand (PCU/hr)
Streams (downstream end) show RFC ()

The junction diagram reflects the last run of Junctions.

Analysis Options

PICADY short flare model	Calculate Q Percentiles	Calculate residual capacity	Residual capacity criteria type	RFC Threshold	Av. Delay threshold (s)	Q threshold (PCU)
JUNCTIONS 11.1	✓	✓	Delay	0.85	36.00	20.00

Demand Set Summary

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2032	Dev	AM	ONE HOUR	07:45	09:15	15
D2	2032	Dev	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Name	Network flow scaling factor (%)
A1	Proposed	100.000

Proposed - D1 - 2032 | Dev | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Access B - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.
Warning	Major arm width	C - L3001 (n) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	Access Junction	T-Junction	Two-way	Two-way	Two-way	1.46	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	218	Stream B-A	1.46	A

Arms

Arms

Arm	Name	Description	Arm type
A	L3001 (s)		Major
B	Access B		Minor
C	L3001 (n)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - L3001 (n)	5.70			120.0	✓	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	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate flare length	Flare length (PCU)	Visibility to left (m)	Visibility to right (m)
B - Access B	One lane plus flare	10.00	10.00	8.40	5.10	3.50	✓	2.00	100	100

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	656	0.121	0.306	0.193	0.437
B-C	713	0.111	0.280	-	-
C-B	643	0.253	0.253	-	-

The slopes and intercepts shown above include custom intercept adjustments only.

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	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2032	Dev	AM	ONE HOUR	07:45	09:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - L3001 (s)			256	100.000
B - Access B			86	100.000
C - L3001 (n)			120	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - L3001 (s)	B - Access B	C - L3001 (n)
From	A - L3001 (s)	0	159	97
	B - Access B	86	0	0
	C - L3001 (n)	120	0	0

Vehicle Mix

Heavy Vehicle %

		To		
		A - L3001 (s)	B - Access B	C - L3001 (n)
From	A - L3001 (s)	0	5	5
	B - Access B	5	0	5
	C - L3001 (n)	5	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
B-C	0.00	0.00	0.0	~1	A
B-A	0.16	7.84	0.2	0.5	A
C-AB	0.00	0.00	0.0	~1	A
C-A					
A-B					
A-C					

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	0	0.00	661	0.000	0	0.0	0.000	A
B-A	65	0.00	602	0.108	64	0.1	7.024	A
C-AB	0	0.00	595	0.000	0	0.0	0.000	A
C-A	90	0.00			90			
A-B	120	0.00			120			
A-C	73	0.00			73			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	0	0.00	650	0.000	0	0.0	0.000	A
B-A	77	0.00	591	0.131	77	0.2	7.348	A
C-AB	0	0.00	585	0.000	0	0.0	0.000	A
C-A	108	0.00			108			
A-B	143	0.00			143			
A-C	87	0.00			87			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	0	0.00	636	0.000	0	0.0	0.000	A
B-A	95	0.00	577	0.164	94	0.2	7.832	A
C-AB	0	0.00	572	0.000	0	0.0	0.000	A
C-A	132	0.00			132			
A-B	175	0.00			175			
A-C	107	0.00			107			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	0	0.00	636	0.000	0	0.0	0.000	A
B-A	95	0.00	577	0.164	95	0.2	7.839	A
C-AB	0	0.00	572	0.000	0	0.0	0.000	A
C-A	132	0.00			132			
A-B	175	0.00			175			
A-C	107	0.00			107			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	0	0.00	650	0.000	0	0.0	0.000	A
B-A	77	0.00	591	0.131	77	0.2	7.359	A
C-AB	0	0.00	585	0.000	0	0.0	0.000	A
C-A	108	0.00			108			
A-B	143	0.00			143			
A-C	87	0.00			87			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	0	0.00	661	0.000	0	0.0	0.000	A
B-A	65	0.00	602	0.108	65	0.1	7.038	A
C-AB	0	0.00	595	0.000	0	0.0	0.000	A
C-A	90	0.00			90			
A-B	120	0.00			120			
A-C	73	0.00			73			

Q Variation Results for each time segment

07:45 - 08:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-A	0.13	0.00	0.00	0.13	0.13			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:00 - 08:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-A	0.16	0.00	0.00	0.16	0.16			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:15 - 08:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-A	0.20	0.03	0.27	0.48	0.51			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:30 - 08:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-A	0.21	0.03	0.27	0.49	0.52			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:45 - 09:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-A	0.16	0.00	0.00	0.16	0.16			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

09:00 - 09:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-A	0.13	0.00	0.00	0.13	0.13			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

Proposed - D2 - 2032 | Dev | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Access B - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.
Warning	Major arm width	C - L3001 (n) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	Access Junction	T-Junction	Two-way	Two-way	Two-way	3.12	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	117	Stream B-A	3.12	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2032	Dev	PM	ONE HOUR	16:45	18:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - L3001 (s)			234	100.000
B - Access B			159	100.000
C - L3001 (n)			86	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - L3001 (s)	B - Access B	C - L3001 (n)
From	A - L3001 (s)	0	86	148
	B - Access B	159	0	0
	C - L3001 (n)	86	0	0

Vehicle Mix

Heavy Vehicle %

		To		
		A - L3001 (s)	B - Access B	C - L3001 (n)
From	A - L3001 (s)	0	5	5
	B - Access B	5	0	5
	C - L3001 (n)	5	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
B-C	0.00	0.00	0.0	~1	A
B-A	0.30	9.41	0.5	1.9	A
C-AB	0.00	0.00	0.0	~1	A
C-A					
A-B					
A-C					

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	0	0.00	641	0.000	0	0.0	0.000	A
B-A	120	0.00	602	0.199	119	0.3	7.808	A
C-AB	0	0.00	599	0.000	0	0.0	0.000	A
C-A	65	0.00			65			
A-B	65	0.00			65			
A-C	111	0.00			111			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	0	0.00	626	0.000	0	0.0	0.000	A
B-A	143	0.00	591	0.242	143	0.3	8.421	A
C-AB	0	0.00	590	0.000	0	0.0	0.000	A
C-A	77	0.00			77			
A-B	77	0.00			77			
A-C	133	0.00			133			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	0	0.00	606	0.000	0	0.0	0.000	A
B-A	175	0.00	577	0.304	175	0.5	9.390	A
C-AB	0	0.00	578	0.000	0	0.0	0.000	A
C-A	95	0.00			95			
A-B	95	0.00			95			
A-C	163	0.00			163			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	0	0.00	606	0.000	0	0.0	0.000	A
B-A	175	0.00	577	0.304	175	0.5	9.412	A
C-AB	0	0.00	578	0.000	0	0.0	0.000	A
C-A	95	0.00			95			
A-B	95	0.00			95			
A-C	163	0.00			163			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	0	0.00	626	0.000	0	0.0	0.000	A
B-A	143	0.00	591	0.242	143	0.3	8.450	A
C-AB	0	0.00	590	0.000	0	0.0	0.000	A
C-A	77	0.00			77			
A-B	77	0.00			77			
A-C	133	0.00			133			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	0	0.00	640	0.000	0	0.0	0.000	A
B-A	120	0.00	602	0.199	120	0.3	7.852	A
C-AB	0	0.00	599	0.000	0	0.0	0.000	A
C-A	65	0.00			65			
A-B	65	0.00			65			
A-C	111	0.00			111			

Q Variation Results for each time segment

16:45 - 17:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-A	0.26	0.00	0.00	0.26	0.26			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

17:00 - 17:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-A	0.33	0.00	0.00	0.33	0.33			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

17:15 - 17:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-A	0.45	0.03	0.27	0.48	0.51			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

17:30 - 17:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-A	0.45	0.03	0.32	1.38	1.95			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

17:45 - 18:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-A	0.34	0.00	0.00	0.34	0.34			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

18:00 - 18:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-A	0.26	0.00	0.00	0.26	0.26			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

Access junction 3, Site entrance C – L3001, PICADY11 output

Junctions 11

PICADY 11 - Priority Intersection Module

Version: 11.1.1.2424
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Filename: Junction 3_Access C.j11
Path: C:\AL Files\AL traffic Jobs Live\8571 - Ballydermot 2025\Picady
Report generation date: 11/10/2026 15:42:43

»Proposed - D1 - 2032 | Dev | AM
»Proposed - D2 - 2032 | Dev | PM

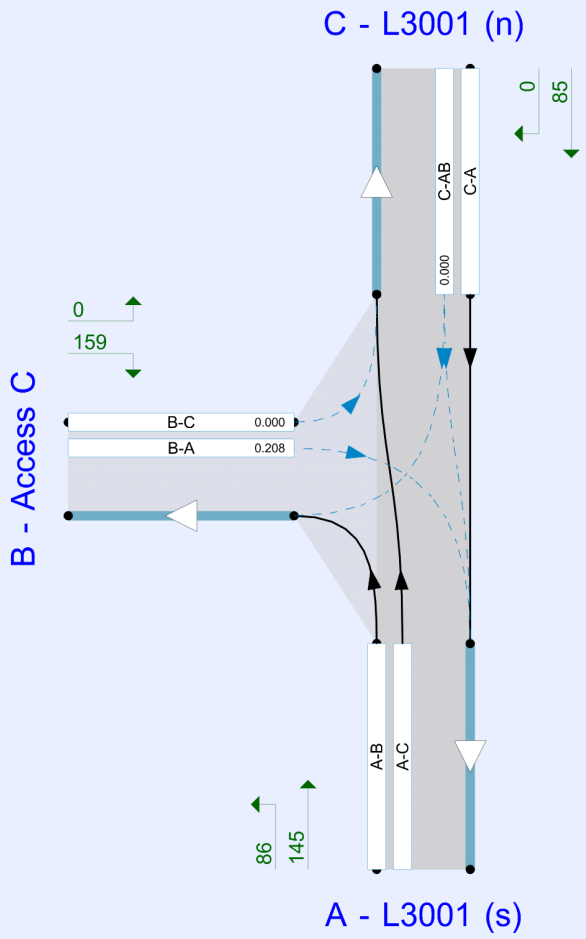
File summary

File Description

Title	Access junction 3, Site Entrance C - L3001
Location	Ballydermot Wind Farm
Site number	
Date	30/06/2026
Version	
Status	(new file)
Identifier	
Client	Bord na Mona
Jobnumber	8571
Enumerator	Alan Lipscombe
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Av. delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin



Flows show original traffic demand (PCU/hr)
Streams (downstream end) show RFC ()

The junction diagram reflects the last run of Junctions.

Analysis Options

PICADY short flare model	Calculate Q Percentiles	Calculate residual capacity	Residual capacity criteria type	RFC Threshold	Av. Delay threshold (s)	Q threshold (PCU)
JUNCTIONS 11.1	✓	✓	Delay	0.85	36.00	20.00

Demand Set Summary

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2032	Dev	AM	ONE HOUR	07:45	09:15	15
D2	2032	Dev	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Name	Network flow scaling factor (%)
A1	Proposed	100.000

Proposed - D1 - 2032 | Dev | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Access C - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	Access Junction	T-Junction	Two-way	Two-way	Two-way	1.56	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	209	Stream B-A	1.56	A

Arms

Arms

Arm	Name	Description	Arm type
A	L3001 (s)		Major
B	Access C		Minor
C	L3001 (n)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - L3001 (n)	6.00			120.0	✓	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	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate flare length	Flare length (PCU)	Visibility to left (m)	Visibility to right (m)
B - Access C	One lane plus flare	10.00	6.40	4.00	3.70	3.00	✓	1.00	100	100

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	625	0.114	0.288	0.181	0.411
B-C	701	0.107	0.271	-	-
C-B	643	0.249	0.249	-	-

The slopes and intercepts shown above include custom intercept adjustments only.

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	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2032	Dev	AM	ONE HOUR	07:45	09:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - L3001 (s)		✓	256	100.000
B - Access C		✓	86	100.000
C - L3001 (n)		✓	116	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - L3001 (s)	B - Access C	C - L3001 (n)
From	A - L3001 (s)	0	159	97
	B - Access C	86	0	0
	C - L3001 (n)	116	0	0

Vehicle Mix

Heavy Vehicle %

		To		
		A - L3001 (s)	B - Access C	C - L3001 (n)
From	A - L3001 (s)	0	5	5
	B - Access C	5	0	5
	C - L3001 (n)	5	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
B-C	0.00	0.00	0.0	~1	A
B-A	0.17	8.28	0.2	0.8	A
C-AB	0.00	0.00	0.0	~1	A
C-A					
A-B					
A-C					

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	0	0.00	649	0.000	0	0.0	0.000	A
B-A	65	0.00	574	0.113	64	0.1	7.402	A
C-AB	0	0.00	595	0.000	0	0.0	0.000	A
C-A	87	0.00			87			
A-B	120	0.00			120			
A-C	73	0.00			73			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	0	0.00	639	0.000	0	0.0	0.000	A
B-A	77	0.00	565	0.137	77	0.2	7.754	A
C-AB	0	0.00	586	0.000	0	0.0	0.000	A
C-A	104	0.00			104			
A-B	143	0.00			143			
A-C	87	0.00			87			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	0	0.00	625	0.000	0	0.0	0.000	A
B-A	95	0.00	551	0.172	94	0.2	8.276	A
C-AB	0	0.00	573	0.000	0	0.0	0.000	A
C-A	128	0.00			128			
A-B	175	0.00			175			
A-C	107	0.00			107			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	0	0.00	625	0.000	0	0.0	0.000	A
B-A	95	0.00	551	0.172	95	0.2	8.283	A
C-AB	0	0.00	573	0.000	0	0.0	0.000	A
C-A	128	0.00			128			
A-B	175	0.00			175			
A-C	107	0.00			107			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	0	0.00	639	0.000	0	0.0	0.000	A
B-A	77	0.00	565	0.137	78	0.2	7.765	A
C-AB	0	0.00	586	0.000	0	0.0	0.000	A
C-A	104	0.00			104			
A-B	143	0.00			143			
A-C	87	0.00			87			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	0	0.00	649	0.000	0	0.0	0.000	A
B-A	65	0.00	574	0.113	65	0.1	7.420	A
C-AB	0	0.00	595	0.000	0	0.0	0.000	A
C-A	87	0.00			87			
A-B	120	0.00			120			
A-C	73	0.00			73			

Q Variation Results for each time segment

07:45 - 08:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-A	0.13	0.00	0.00	0.13	0.13			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:00 - 08:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-A	0.17	0.00	0.00	0.17	0.17			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:15 - 08:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-A	0.22	0.03	0.27	0.48	0.51			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:30 - 08:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-A	0.22	0.03	0.28	0.51	0.79			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:45 - 09:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-A	0.17	0.00	0.00	0.17	0.17			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

09:00 - 09:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-A	0.13	0.00	0.00	0.13	0.13			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

Proposed - D2 - 2032 | Dev | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Access C - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	Access Junction	T-Junction	Two-way	Two-way	Two-way	3.36	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	110	Stream B-A	3.36	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2032	Dev	PM	ONE HOUR	16:45	18:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - L3001 (s)		✓	231	100.000
B - Access C		✓	159	100.000
C - L3001 (n)		✓	85	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - L3001 (s)	B - Access C	C - L3001 (n)
From	A - L3001 (s)	0	86	145
	B - Access C	159	0	0
	C - L3001 (n)	85	0	0

Vehicle Mix

Heavy Vehicle %

		To		
		A - L3001 (s)	B - Access C	C - L3001 (n)
From	A - L3001 (s)	0	5	5
	B - Access C	5	0	5
	C - L3001 (n)	5	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
B-C	0.00	0.00	0.0	~1	A
B-A	0.32	10.05	0.5	2.1	B
C-AB	0.00	0.00	0.0	~1	A
C-A					
A-B					
A-C					

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	0	0.00	629	0.000	0	0.0	0.000	A
B-A	120	0.00	574	0.208	119	0.3	8.273	A
C-AB	0	0.00	600	0.000	0	0.0	0.000	A
C-A	64	0.00			64			
A-B	65	0.00			65			
A-C	109	0.00			109			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	0	0.00	615	0.000	0	0.0	0.000	A
B-A	143	0.00	565	0.253	143	0.4	8.951	A
C-AB	0	0.00	592	0.000	0	0.0	0.000	A
C-A	76	0.00			76			
A-B	77	0.00			77			
A-C	130	0.00			130			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	0	0.00	595	0.000	0	0.0	0.000	A
B-A	175	0.00	551	0.318	175	0.5	10.023	B
C-AB	0	0.00	580	0.000	0	0.0	0.000	A
C-A	94	0.00			94			
A-B	95	0.00			95			
A-C	160	0.00			160			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	0	0.00	595	0.000	0	0.0	0.000	A
B-A	175	0.00	551	0.318	175	0.5	10.051	B
C-AB	0	0.00	580	0.000	0	0.0	0.000	A
C-A	94	0.00			94			
A-B	95	0.00			95			
A-C	160	0.00			160			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	0	0.00	615	0.000	0	0.0	0.000	A
B-A	143	0.00	565	0.253	143	0.4	8.984	A
C-AB	0	0.00	592	0.000	0	0.0	0.000	A
C-A	76	0.00			76			
A-B	77	0.00			77			
A-C	130	0.00			130			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	0	0.00	629	0.000	0	0.0	0.000	A
B-A	120	0.00	574	0.208	120	0.3	8.326	A
C-AB	0	0.00	600	0.000	0	0.0	0.000	A
C-A	64	0.00			64			
A-B	65	0.00			65			
A-C	109	0.00			109			

Q Variation Results for each time segment

16:45 - 17:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-A	0.27	0.00	0.00	0.27	0.27			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

17:00 - 17:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-A	0.35	0.00	0.00	0.35	0.35			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

17:15 - 17:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-A	0.48	0.03	0.27	0.48	0.51			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

17:30 - 17:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-A	0.48	0.03	0.32	1.39	2.11			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

17:45 - 18:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-A	0.36	0.00	0.00	0.36	0.36			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

18:00 - 18:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-A	0.28	0.00	0.00	0.28	0.28			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

Access junction 3, Site entrance E – L3001, PICADY11 output

Junctions 11

PICADY 11 - Priority Intersection Module

Version: 11.1.1.2424
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Filename: Junction 3_Access E.j11
Path: C:\AL Files\AL traffic Jobs Live\8571 - Ballydermot 2025\Picady
Report generation date: 11/10/2026 15:46:40

»Proposed - D1 - 2032 | Dev | AM
»Proposed - D2 - 2032 | Dev | PM

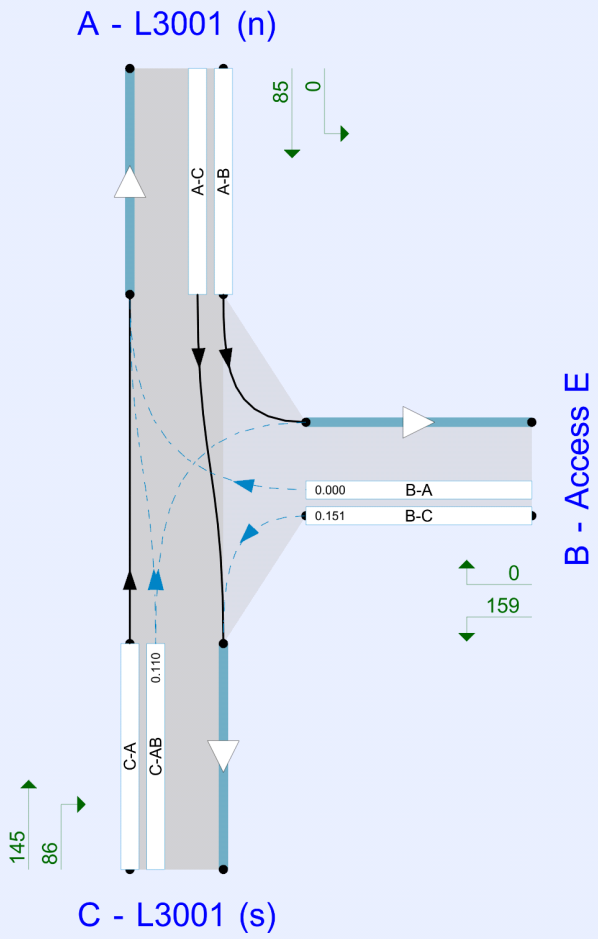
File summary

File Description

Title	Access junction 3, Site Entrance E - L3001
Location	Ballydermot Wind Farm
Site number	
Date	30/06/2026
Version	
Status	(new file)
Identifier	
Client	Bord na Mona
Jobnumber	8571
Enumerator	Alan Lipscombe
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Av. delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin



Flows show original traffic demand (PCU/hr)
Streams (downstream end) show RFC ()

The junction diagram reflects the last run of Junctions.

Analysis Options

PICADY short flare model	Calculate Q Percentiles	Calculate residual capacity	Residual capacity criteria type	RFC Threshold	Av. Delay threshold (s)	Q threshold (PCU)
JUNCTIONS 11.1	✓	✓	Delay	0.85	36.00	20.00

Demand Set Summary

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2032	Dev	AM	ONE HOUR	07:45	09:15	15
D2	2032	Dev	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Name	Network flow scaling factor (%)
A1	Proposed	100.000

Proposed - D1 - 2032 | Dev | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Access E - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	Access Junction	T-Junction	Two-way	Two-way	Two-way	4.25	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	138	Stream C-AB	4.25	A

Arms

Arms

Arm	Name	Description	Arm type
A	L3001 (n)		Major
B	Access E		Minor
C	L3001 (s)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - L3001 (s)	6.00			120.0	✓	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	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate flare length	Flare length (PCU)	Visibility to left (m)	Visibility to right (m)
B - Access E	One lane plus flare	10.00	10.00	8.30	5.80	4.30	✓	3.00	100	100

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	590	0.107	0.272	0.171	0.388
B-C	815	0.125	0.316	-	-
C-B	643	0.249	0.249	-	-

The slopes and intercepts shown above include custom intercept adjustments only.

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	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2032	Dev	AM	ONE HOUR	07:45	09:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - L3001 (n)		✓	116	100.000
B - Access E			86	100.000
C - L3001 (s)		✓	256	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - L3001 (n)	B - Access E	C - L3001 (s)
From	A - L3001 (n)	0	0	116
	B - Access E	0	0	86
	C - L3001 (s)	97	159	0

Vehicle Mix

Heavy Vehicle %

		To		
		A - L3001 (n)	B - Access E	C - L3001 (s)
From	A - L3001 (n)	0	5	5
	B - Access E	5	0	5
	C - L3001 (s)	5	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
B-C	0.12	5.56	0.1	0.5	A
B-A	0.00	0.00	0.0	~1	A
C-AB	0.30	7.97	0.5	2.1	A
C-A					
A-B					
A-C					

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	65	0.00	787	0.082	64	0.1	5.227	A
B-A	0	0.00	508	0.000	0	0.0	0.000	A
C-AB	134	0.00	669	0.201	133	0.3	7.038	A
C-A	58	0.00			58			
A-B	0	0.00			0			
A-C	87	0.00			87			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	77	0.00	782	0.099	77	0.1	5.364	A
B-A	0	0.00	491	0.000	0	0.0	0.000	A
C-AB	164	0.00	675	0.243	164	0.4	7.401	A
C-A	66	0.00			66			
A-B	0	0.00			0			
A-C	104	0.00			104			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	95	0.00	774	0.122	95	0.1	5.559	A
B-A	0	0.00	469	0.000	0	0.0	0.000	A
C-AB	208	0.00	682	0.305	207	0.5	7.955	A
C-A	74	0.00			74			
A-B	0	0.00			0			
A-C	128	0.00			128			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	95	0.00	774	0.122	95	0.1	5.559	A
B-A	0	0.00	469	0.000	0	0.0	0.000	A
C-AB	208	0.00	682	0.305	208	0.5	7.975	A
C-A	74	0.00			74			
A-B	0	0.00			0			
A-C	128	0.00			128			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	77	0.00	782	0.099	77	0.1	5.368	A
B-A	0	0.00	491	0.000	0	0.0	0.000	A
C-AB	164	0.00	675	0.244	165	0.4	7.423	A
C-A	66	0.00			66			
A-B	0	0.00			0			
A-C	104	0.00			104			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	65	0.00	787	0.082	65	0.1	5.232	A
B-A	0	0.00	507	0.000	0	0.0	0.000	A
C-AB	135	0.00	670	0.201	135	0.3	7.078	A
C-A	58	0.00			58			
A-B	0	0.00			0			
A-C	87	0.00			87			

Q Variation Results for each time segment

07:45 - 08:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.09	0.00	0.00	0.09	0.09			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.29	0.00	0.00	0.29	0.29			N/A	N/A

08:00 - 08:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.11	0.00	0.00	0.11	0.11			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.37	0.00	0.00	0.37	0.37			N/A	N/A

08:15 - 08:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.15	0.03	0.27	0.49	0.51			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.51	0.03	0.27	0.51	0.51			N/A	N/A

08:30 - 08:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.15	0.03	0.26	0.47	0.50			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.52	0.03	0.33	1.53	2.12			N/A	N/A

08:45 - 09:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.12	0.00	0.00	0.12	0.12			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.38	0.00	0.00	0.38	0.38			N/A	N/A

09:00 - 09:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.09	0.00	0.00	0.09	0.09			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.29	0.00	0.00	0.29	0.29			N/A	N/A

Proposed - D2 - 2032 | Dev | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Access E - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	Access Junction	T-Junction	Two-way	Two-way	Two-way	3.48	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	250	Stream B-C	3.48	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2032	Dev	PM	ONE HOUR	16:45	18:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - L3001 (n)		✓	85	100.000
B - Access E			159	100.000
C - L3001 (s)		✓	231	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - L3001 (n)	B - Access E	C - L3001 (s)
From	A - L3001 (n)	0	0	85
	B - Access E	0	0	159
	C - L3001 (s)	145	86	0

Vehicle Mix

Heavy Vehicle %

		To		
		A - L3001 (n)	B - Access E	C - L3001 (s)
From	A - L3001 (n)	0	5	5
	B - Access E	5	0	5
	C - L3001 (s)	5	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
B-C	0.22	6.19	0.3	1.4	A
B-A	0.00	0.00	0.0	~1	A
C-AB	0.17	6.27	0.3	0.6	A
C-A					
A-B					
A-C					

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	120	0.00	795	0.151	119	0.2	5.589	A
B-A	0	0.00	529	0.000	0	0.0	0.000	A
C-AB	77	0.00	699	0.110	76	0.2	6.068	A
C-A	97	0.00			97			
A-B	0	0.00			0			
A-C	64	0.00			64			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	143	0.00	791	0.181	143	0.2	5.832	A
B-A	0	0.00	517	0.000	0	0.0	0.000	A
C-AB	95	0.00	710	0.134	95	0.2	6.147	A
C-A	113	0.00			113			
A-B	0	0.00			0			
A-C	76	0.00			76			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	175	0.00	785	0.223	175	0.3	6.189	A
B-A	0	0.00	500	0.000	0	0.0	0.000	A
C-AB	122	0.00	725	0.168	121	0.3	6.265	A
C-A	133	0.00			133			
A-B	0	0.00			0			
A-C	94	0.00			94			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	175	0.00	785	0.223	175	0.3	6.194	A
B-A	0	0.00	500	0.000	0	0.0	0.000	A
C-AB	122	0.00	725	0.168	122	0.3	6.269	A
C-A	133	0.00			133			
A-B	0	0.00			0			
A-C	94	0.00			94			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	143	0.00	791	0.181	143	0.2	5.842	A
B-A	0	0.00	517	0.000	0	0.0	0.000	A
C-AB	95	0.00	710	0.134	95	0.2	6.158	A
C-A	113	0.00			113			
A-B	0	0.00			0			
A-C	76	0.00			76			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	120	0.00	795	0.151	120	0.2	5.605	A
B-A	0	0.00	529	0.000	0	0.0	0.000	A
C-AB	77	0.00	699	0.110	77	0.2	6.085	A
C-A	97	0.00			97			
A-B	0	0.00			0			
A-C	64	0.00			64			

Q Variation Results for each time segment

16:45 - 17:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.18	0.00	0.00	0.18	0.18			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.15	0.00	0.00	0.15	0.15			N/A	N/A

17:00 - 17:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.23	0.00	0.00	0.23	0.23			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.20	0.00	0.00	0.20	0.20			N/A	N/A

17:15 - 17:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.30	0.03	0.27	0.48	0.51			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.26	0.03	0.27	0.49	0.52			N/A	N/A

17:30 - 17:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.30	0.03	0.32	1.05	1.37			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.26	0.03	0.28	0.50	0.61			N/A	N/A

17:45 - 18:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.23	0.00	0.00	0.23	0.23			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.20	0.00	0.00	0.20	0.20			N/A	N/A

18:00 - 18:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.19	0.00	0.00	0.19	0.19			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.16	0.00	0.00	0.16	0.16			N/A	N/A

Access junction 5, Site entrances I and J – R414, PICADY11 output

Junctions 11

PICADY 11 - Priority Intersection Module

Version: 11.1.1.2424
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Filename: Junction 5_Access I and J.j11
Path: C:\AL Files\AL traffic Jobs Live\8571 - Ballydermot 2025\Picady
Report generation date: 11/10/2026 15:53:35

»Proposed - D1 - 2032 | With Dev | AM
»Proposed - D2 - 2032 | With Dev | PM

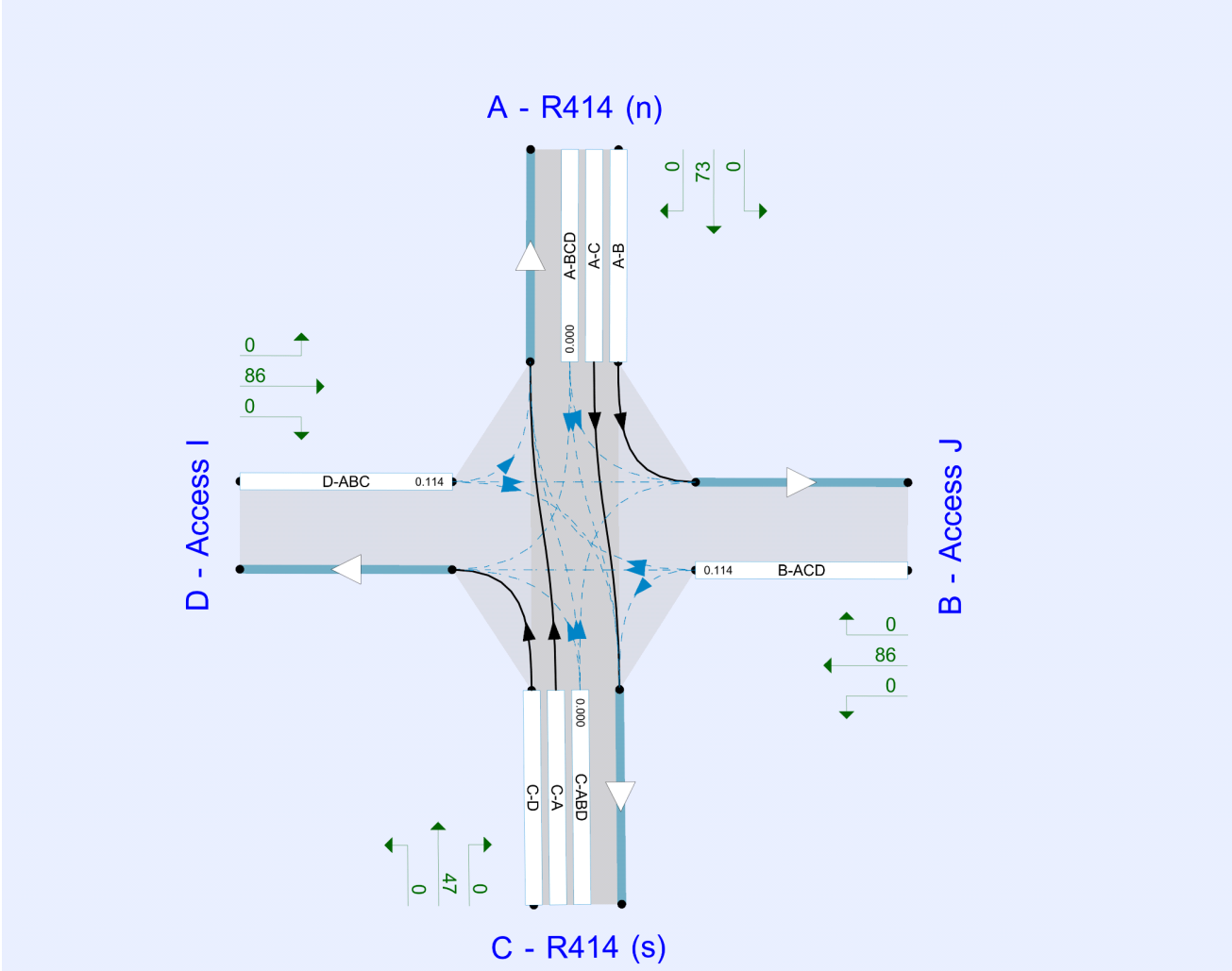
File summary

File Description

Title	Access junction 5, Site Entrance I and J - R414
Location	Ballydermot Wind Farm
Site number	
Date	30/06/2026
Version	
Status	(new file)
Identifier	
Client	Bord na Mona
Jobnumber	8571
Enumerator	Alan Lipscombe
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Av. delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin



Flows show original traffic demand (PCU/hr)
Streams (downstream end) show RFC ()

The junction diagram reflects the last run of Junctions.

Analysis Options

PICADY short flare model	Calculate Q Percentiles	Calculate residual capacity	Residual capacity criteria type	RFC Threshold	Av. Delay threshold (s)	Q threshold (PCU)
JUNCTIONS 11.1	✓	✓	Delay	0.85	36.00	20.00

Demand Set Summary

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2032	With Dev	AM	ONE HOUR	07:45	09:15	15
D2	2032	With Dev	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Name	Network flow scaling factor (%)
A1	Proposed	100.000

Proposed - D1 - 2032 | With Dev | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Major arm width	A - R414 (n) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Major arm width	C - R414 (s) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Queue variations	Analysis Options	Q Variations cannot be calculated for crossroads.
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Junction Delay (s)	Junction LOS
1	Access Junction	Crossroads	Two-way	Two-way	Two-way	Two-way	4.94	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	250	Stream D-ABC	4.94	A

Arms

Arms

Arm	Name	Description	Arm type
A	R414 (n)		Major
B	Access J		Minor
C	R414 (s)		Major
D	Access I		Minor

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
A - R414 (n)	5.50			120.0	✓	0.00
C - R414 (s)	5.50			120.0	✓	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 - Access J	One lane	3.50	100	100
D - Access I	One lane	3.50	100	100

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for A-D	Slope for B-A	Slope for B-C	Slope for B-D	Slope for C-A	Slope for C-B	Slope for C-D	Slope for D-A	Slope for D-B	Slope for D-C
A-D	643	-	-	-	-	-	-	0.255	0.364	0.255	-	-	-
B-A	589	0.110	0.277	0.277	-	-	-	0.174	0.396	-	0.277	0.277	0.138
B-C	721	0.113	0.286	-	-	-	-	-	-	-	-	-	-
B-D, nearside lane	589	0.110	0.277	0.277	-	-	-	0.174	0.396	0.174	-	-	-
B-D, offside lane	589	0.110	0.277	0.277	-	-	-	0.174	0.396	0.174	-	-	-
C-B	643	0.255	0.255	0.364	-	-	-	-	-	-	-	-	-
D-A	721	-	-	-	-	-	-	0.286	-	0.113	-	-	-
D-B, nearside lane	589	0.174	0.174	0.396	-	-	-	0.277	0.277	0.110	-	-	-
D-B, offside lane	589	0.174	0.174	0.396	-	-	-	0.277	0.277	0.110	-	-	-
D-C	589	-	0.174	0.396	0.138	0.277	0.277	0.277	0.277	0.110	-	-	-

The slopes and intercepts shown above include custom intercept adjustments only.

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	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2032	With Dev	AM	ONE HOUR	07:45	09:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - R414 (n)		✓	57	100.000
B - Access J		✓	86	100.000
C - R414 (s)		✓	53	100.000
D - Access I		✓	99	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - R414 (n)	B - Access J	C - R414 (s)	D - Access I
From	A - R414 (n)	0	0	57	0
	B - Access J	0	0	0	86
	C - R414 (s)	53	0	0	0
	D - Access I	0	86	13	0

Vehicle Mix

Heavy Vehicle %

		To			
		A - R414 (n)	B - Access J	C - R414 (s)	D - Access I
From	A - R414 (n)	0	5	5	0
	B - Access J	5	0	5	0
	C - R414 (s)	5	5	0	0
	D - Access I	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
B-ACD	0.17	7.71	0.2	0.6	A
A-BCD	0.00	0.00	0.0	~1	A
A-B					
A-C					
D-ABC	0.20	8.02	0.2	1.1	A
C-ABD	0.00	0.00	0.0	~1	A
C-D					
C-A					

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	65	0.00	570	0.114	64	0.1	7.110	A
A-BCD	0	0.00	633	0.000	0	0.0	0.000	A
A-B	0	0.00			0			
A-C	43	0.00			43			
D-ABC	75	0.00	568	0.131	74	0.1	7.279	A
C-ABD	0	0.00	633	0.000	0	0.0	0.000	A
C-D	0	0.00			0			
C-A	40	0.00			40			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	77	0.00	566	0.137	77	0.2	7.357	A
A-BCD	0	0.00	631	0.000	0	0.0	0.000	A
A-B	0	0.00			0			
A-C	51	0.00			51			
D-ABC	89	0.00	564	0.158	89	0.2	7.578	A
C-ABD	0	0.00	630	0.000	0	0.0	0.000	A
C-D	0	0.00			0			
C-A	48	0.00			48			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	95	0.00	561	0.169	95	0.2	7.713	A
A-BCD	0	0.00	629	0.000	0	0.0	0.000	A
A-B	0	0.00			0			
A-C	63	0.00			63			
D-ABC	109	0.00	558	0.195	109	0.2	8.007	A
C-ABD	0	0.00	627	0.000	0	0.0	0.000	A
C-D	0	0.00			0			
C-A	58	0.00			58			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	95	0.00	561	0.169	95	0.2	7.715	A
A-BCD	0	0.00	629	0.000	0	0.0	0.000	A
A-B	0	0.00			0			
A-C	63	0.00			63			
D-ABC	109	0.00	558	0.195	109	0.2	8.015	A
C-ABD	0	0.00	627	0.000	0	0.0	0.000	A
C-D	0	0.00			0			
C-A	58	0.00			58			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	77	0.00	566	0.137	77	0.2	7.368	A
A-BCD	0	0.00	631	0.000	0	0.0	0.000	A
A-B	0	0.00			0			
A-C	51	0.00			51			
D-ABC	89	0.00	564	0.158	89	0.2	7.591	A
C-ABD	0	0.00	630	0.000	0	0.0	0.000	A
C-D	0	0.00			0			
C-A	48	0.00			48			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	65	0.00	570	0.114	65	0.1	7.127	A
A-BCD	0	0.00	633	0.000	0	0.0	0.000	A
A-B	0	0.00			0			
A-C	43	0.00			43			
D-ABC	75	0.00	568	0.131	75	0.2	7.301	A
C-ABD	0	0.00	633	0.000	0	0.0	0.000	A
C-D	0	0.00			0			
C-A	40	0.00			40			

Q Variation Results for each time segment

07:45 - 08:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.13	0.00	0.00	0.13	0.13			N/A	N/A
A-BCD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-ABC	0.15	0.00	0.00	0.15	0.15			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:00 - 08:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.16	0.00	0.00	0.16	0.16			N/A	N/A
A-BCD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-ABC	0.19	0.00	0.00	0.19	0.19			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:15 - 08:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.20	0.03	0.26	0.46	0.49			N/A	N/A
A-BCD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-ABC	0.24	0.03	0.26	0.46	0.49			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:30 - 08:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.20	0.03	0.26	0.48	0.61			N/A	N/A
A-BCD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-ABC	0.24	0.03	0.29	0.77	1.15			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:45 - 09:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.16	0.00	0.00	0.16	0.16			N/A	N/A
A-BCD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-ABC	0.19	0.00	0.00	0.19	0.19			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

09:00 - 09:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.13	0.00	0.00	0.13	0.13			N/A	N/A
A-BCD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-ABC	0.15	0.00	0.00	0.15	0.15			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

Proposed - D2 - 2032 | With Dev | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Major arm width	A - R414 (n) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Major arm width	C - R414 (s) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Queue variations	Analysis Options	Q Variations cannot be calculated for crossroads.
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Junction Delay (s)	Junction LOS
1	Access Junction	Crossroads	Two-way	Two-way	Two-way	Two-way	4.57	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	290	Stream B-ACD	4.57	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2032	With Dev	PM	ONE HOUR	16:45	18:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - R414 (n)		✓	73	100.000
B - Access J		✓	86	100.000
C - R414 (s)		✓	47	100.000
D - Access I		✓	86	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - R414 (n)	B - Access J	C - R414 (s)	D - Access I
From	A - R414 (n)	0	0	73	0
	B - Access J	0	0	0	86
	C - R414 (s)	47	0	0	0
	D - Access I	0	86	0	0

Vehicle Mix

Heavy Vehicle %

		To			
		A - R414 (n)	B - Access J	C - R414 (s)	D - Access I
From	A - R414 (n)	0	5	5	0
	B - Access J	5	0	5	0
	C - R414 (s)	5	5	0	0
	D - Access I	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
B-ACD	0.17	7.78	0.2	0.7	A
A-BCD	0.00	0.00	0.0	~1	A
A-B					
A-C					
D-ABC	0.17	7.73	0.2	0.6	A
C-ABD	0.00	0.00	0.0	~1	A
C-D					
C-A					

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	65	0.00	567	0.114	64	0.1	7.146	A
A-BCD	0	0.00	634	0.000	0	0.0	0.000	A
A-B	0	0.00			0			
A-C	55	0.00			55			
D-ABC	65	0.00	569	0.114	64	0.1	7.118	A
C-ABD	0	0.00	629	0.000	0	0.0	0.000	A
C-D	0	0.00			0			
C-A	35	0.00			35			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	77	0.00	563	0.137	77	0.2	7.404	A
A-BCD	0	0.00	633	0.000	0	0.0	0.000	A
A-B	0	0.00			0			
A-C	66	0.00			66			
D-ABC	77	0.00	566	0.137	77	0.2	7.367	A
C-ABD	0	0.00	627	0.000	0	0.0	0.000	A
C-D	0	0.00			0			
C-A	42	0.00			42			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	95	0.00	558	0.170	95	0.2	7.769	A
A-BCD	0	0.00	630	0.000	0	0.0	0.000	A
A-B	0	0.00			0			
A-C	80	0.00			80			
D-ABC	95	0.00	560	0.169	95	0.2	7.726	A
C-ABD	0	0.00	623	0.000	0	0.0	0.000	A
C-D	0	0.00			0			
C-A	52	0.00			52			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	95	0.00	558	0.170	95	0.2	7.777	A
A-BCD	0	0.00	630	0.000	0	0.0	0.000	A
A-B	0	0.00			0			
A-C	80	0.00			80			
D-ABC	95	0.00	560	0.169	95	0.2	7.728	A
C-ABD	0	0.00	623	0.000	0	0.0	0.000	A
C-D	0	0.00			0			
C-A	52	0.00			52			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	77	0.00	563	0.137	77	0.2	7.412	A
A-BCD	0	0.00	633	0.000	0	0.0	0.000	A
A-B	0	0.00			0			
A-C	66	0.00			66			
D-ABC	77	0.00	566	0.137	77	0.2	7.375	A
C-ABD	0	0.00	627	0.000	0	0.0	0.000	A
C-D	0	0.00			0			
C-A	42	0.00			42			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	65	0.00	567	0.114	65	0.1	7.166	A
A-BCD	0	0.00	634	0.000	0	0.0	0.000	A
A-B	0	0.00			0			
A-C	55	0.00			55			
D-ABC	65	0.00	569	0.114	65	0.1	7.135	A
C-ABD	0	0.00	629	0.000	0	0.0	0.000	A
C-D	0	0.00			0			
C-A	35	0.00			35			

Q Variation Results for each time segment

16:45 - 17:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.13	0.00	0.00	0.13	0.13			N/A	N/A
A-BCD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-ABC	0.13	0.00	0.00	0.13	0.13			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

17:00 - 17:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.16	0.00	0.00	0.16	0.16			N/A	N/A
A-BCD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-ABC	0.16	0.00	0.00	0.16	0.16			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

17:15 - 17:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.20	0.03	0.26	0.46	0.49			N/A	N/A
A-BCD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-ABC	0.20	0.03	0.26	0.46	0.49			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

17:30 - 17:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.20	0.03	0.27	0.48	0.66			N/A	N/A
A-BCD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-ABC	0.20	0.03	0.27	0.48	0.62			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

17:45 - 18:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.16	0.00	0.00	0.16	0.16			N/A	N/A
A-BCD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-ABC	0.16	0.00	0.00	0.16	0.16			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

18:00 - 18:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.13	0.00	0.00	0.13	0.13			N/A	N/A
A-BCD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-ABC	0.13	0.00	0.00	0.13	0.13			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

Access junction 6, Site entrance L – R414, PICADY11 output

Junctions 11

PICADY 11 - Priority Intersection Module

Version: 11.1.1.2424
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Filename: Junction 6_Access L.j11
Path: C:\AL Files\AL traffic Jobs Live\8571 - Ballydermot 2025\Picady
Report generation date: 11/10/2026 15:58:46

»Proposed - D1 - 2032 | Dev | AM
»Proposed - D2 - 2032 | Dev | PM

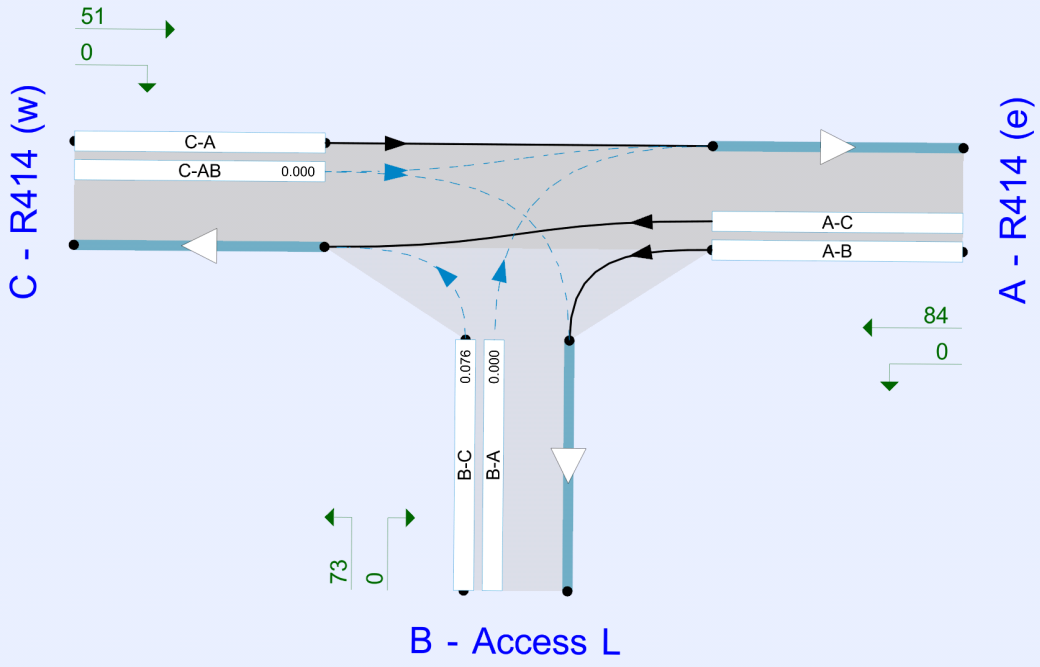
File summary

File Description

Title	Access junction 6, Site Entrance L - 414
Location	Ballydermot Wind Farm
Site number	
Date	30/06/2026
Version	
Status	(new file)
Identifier	
Client	Bord na Mona
Jobnumber	8571
Enumerator	Alan Lipscombe
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Av. delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin



Flows show original traffic demand (PCU/hr)
Streams (downstream end) show RFC ()

The junction diagram reflects the last run of Junctions.

Analysis Options

PICADY short flare model	Calculate Q Percentiles	Calculate residual capacity	Residual capacity criteria type	RFC Threshold	Av. Delay threshold (s)	Q threshold (PCU)
JUNCTIONS 11.1	✓	✓	Delay	0.85	36.00	20.00

Demand Set Summary

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2032	Dev	AM	ONE HOUR	07:45	09:15	15
D2	2032	Dev	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Name	Network flow scaling factor (%)
A1	Proposed	100.000

Proposed - D1 - 2032 | Dev | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Access L - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.
Warning	Major arm width	C - R414 (w) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	Access Junction	T-Junction	Two-way	Two-way	Two-way	2.85	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	403	Stream C-AB	2.85	A

Arms

Arms

Arm	Name	Description	Arm type
A	R414 (e)		Major
B	Access L		Minor
C	R414 (w)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - R414 (w)	5.50			120.0	✓	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	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate flare length	Flare length (PCU)	Visibility to left (m)	Visibility to right (m)
B - Access L	One lane plus flare	10.00	6.20	3.30	3.00	3.00	✓	1.00	100	100

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	588	0.109	0.276	0.174	0.395
B-C	720	0.113	0.285	-	-
C-B	643	0.255	0.255	-	-

The slopes and intercepts shown above include custom intercept adjustments only.

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	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2032	Dev	AM	ONE HOUR	07:45	09:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - R414 (e)		✓	45	100.000
B - Access L		✓	0	100.000
C - R414 (w)		✓	136	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - R414 (e)	B - Access L	C - R414 (w)
From	A - R414 (e)	0	0	45
	B - Access L	0	0	0
	C - R414 (w)	63	73	0

Vehicle Mix

Heavy Vehicle %

		To		
		A - R414 (e)	B - Access L	C - R414 (w)
From	A - R414 (e)	0	5	5
	B - Access L	5	0	5
	C - R414 (w)	5	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
B-C	0.00	0.00	0.0	~1	A
B-A	0.00	0.00	0.0	~1	A
C-AB	0.13	6.45	0.2	0.5	A
C-A					
A-B					
A-C					

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	0	0.00	710	0.000	0	0.0	0.000	A
B-A	0	0.00	548	0.000	0	0.0	0.000	A
C-AB	59	0.00	666	0.089	59	0.1	6.225	A
C-A	43	0.00			43			
A-B	0	0.00			0			
A-C	34	0.00			34			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	0	0.00	708	0.000	0	0.0	0.000	A
B-A	0	0.00	541	0.000	0	0.0	0.000	A
C-AB	72	0.00	670	0.107	72	0.1	6.318	A
C-A	51	0.00			51			
A-B	0	0.00			0			
A-C	40	0.00			40			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	0	0.00	706	0.000	0	0.0	0.000	A
B-A	0	0.00	530	0.000	0	0.0	0.000	A
C-AB	90	0.00	676	0.133	89	0.2	6.446	A
C-A	60	0.00			60			
A-B	0	0.00			0			
A-C	50	0.00			50			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	0	0.00	706	0.000	0	0.0	0.000	A
B-A	0	0.00	530	0.000	0	0.0	0.000	A
C-AB	90	0.00	676	0.133	90	0.2	6.447	A
C-A	60	0.00			60			
A-B	0	0.00			0			
A-C	50	0.00			50			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	0	0.00	708	0.000	0	0.0	0.000	A
B-A	0	0.00	540	0.000	0	0.0	0.000	A
C-AB	72	0.00	670	0.107	72	0.1	6.322	A
C-A	51	0.00			51			
A-B	0	0.00			0			
A-C	40	0.00			40			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	0	0.00	710	0.000	0	0.0	0.000	A
B-A	0	0.00	548	0.000	0	0.0	0.000	A
C-AB	59	0.00	666	0.089	59	0.1	6.238	A
C-A	43	0.00			43			
A-B	0	0.00			0			
A-C	34	0.00			34			

Q Variation Results for each time segment

07:45 - 08:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.11	0.00	0.00	0.11	0.11			N/A	N/A

08:00 - 08:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.14	0.00	0.00	0.14	0.14			N/A	N/A

08:15 - 08:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.18	0.03	0.27	0.49	0.52			N/A	N/A

08:30 - 08:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.18	0.03	0.26	0.47	0.50			N/A	N/A

08:45 - 09:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.14	0.00	0.00	0.14	0.14			N/A	N/A

09:00 - 09:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.00	0.00	0.00	0.00	0.00			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.11	0.00	0.00	0.11	0.11			N/A	N/A

Proposed - D2 - 2032 | Dev | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Access L - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.
Warning	Major arm width	C - R414 (w) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	Access Junction	T-Junction	Two-way	Two-way	Two-way	2.08	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	499	Stream B-C	2.08	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2032	Dev	PM	ONE HOUR	16:45	18:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - R414 (e)		✓	84	100.000
B - Access L		✓	73	100.000
C - R414 (w)		✓	51	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - R414 (e)	B - Access L	C - R414 (w)
From	A - R414 (e)	0	0	84
	B - Access L	0	0	73
	C - R414 (w)	51	0	0

Vehicle Mix

Heavy Vehicle %

		To		
		A - R414 (e)	B - Access L	C - R414 (w)
From	A - R414 (e)	0	5	5
	B - Access L	5	0	5
	C - R414 (w)	5	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
B-C	0.11	5.92	0.1	0.5	A
B-A	0.00	0.00	0.0	~1	A
C-AB	0.00	0.00	0.0	~1	A
C-A					
A-B					
A-C					

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	55	0.00	727	0.076	55	0.1	5.616	A
B-A	0	0.00	543	0.000	0	0.0	0.000	A
C-AB	0	0.00	627	0.000	0	0.0	0.000	A
C-A	38	0.00			38			
A-B	0	0.00			0			
A-C	63	0.00			63			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	66	0.00	724	0.091	66	0.1	5.743	A
B-A	0	0.00	539	0.000	0	0.0	0.000	A
C-AB	0	0.00	624	0.000	0	0.0	0.000	A
C-A	46	0.00			46			
A-B	0	0.00			0			
A-C	76	0.00			76			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	80	0.00	719	0.112	80	0.1	5.920	A
B-A	0	0.00	532	0.000	0	0.0	0.000	A
C-AB	0	0.00	620	0.000	0	0.0	0.000	A
C-A	56	0.00			56			
A-B	0	0.00			0			
A-C	92	0.00			92			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	80	0.00	719	0.112	80	0.1	5.920	A
B-A	0	0.00	532	0.000	0	0.0	0.000	A
C-AB	0	0.00	620	0.000	0	0.0	0.000	A
C-A	56	0.00			56			
A-B	0	0.00			0			
A-C	92	0.00			92			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	66	0.00	724	0.091	66	0.1	5.747	A
B-A	0	0.00	539	0.000	0	0.0	0.000	A
C-AB	0	0.00	624	0.000	0	0.0	0.000	A
C-A	46	0.00			46			
A-B	0	0.00			0			
A-C	76	0.00			76			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	55	0.00	727	0.076	55	0.1	5.622	A
B-A	0	0.00	543	0.000	0	0.0	0.000	A
C-AB	0	0.00	627	0.000	0	0.0	0.000	A
C-A	38	0.00			38			
A-B	0	0.00			0			
A-C	63	0.00			63			

Q Variation Results for each time segment

16:45 - 17:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.09	0.00	0.00	0.09	0.09			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

17:00 - 17:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.10	0.03	0.26	0.47	0.50			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

17:15 - 17:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.13	0.03	0.27	0.49	0.51			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

17:30 - 17:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.13	0.03	0.26	0.47	0.50			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

17:45 - 18:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.11	0.00	0.00	0.11	0.11			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

18:00 - 18:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.09	0.00	0.00	0.09	0.09			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

Access junction 7, Site entrance M – L6002, PICADY11 output

Junctions 11

PICADY 11 - Priority Intersection Module

Version: 11.1.1.2424
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Filename: Junction 7_Access M.j11
Path: C:\AL Files\AL traffic Jobs Live\8571 - Ballydermot 2025\Picady
Report generation date: 11/10/2026 16:01:13

»Proposed - D1 - 2032 | Dev | AM
»Proposed - D2 - 2032 | Dev | PM

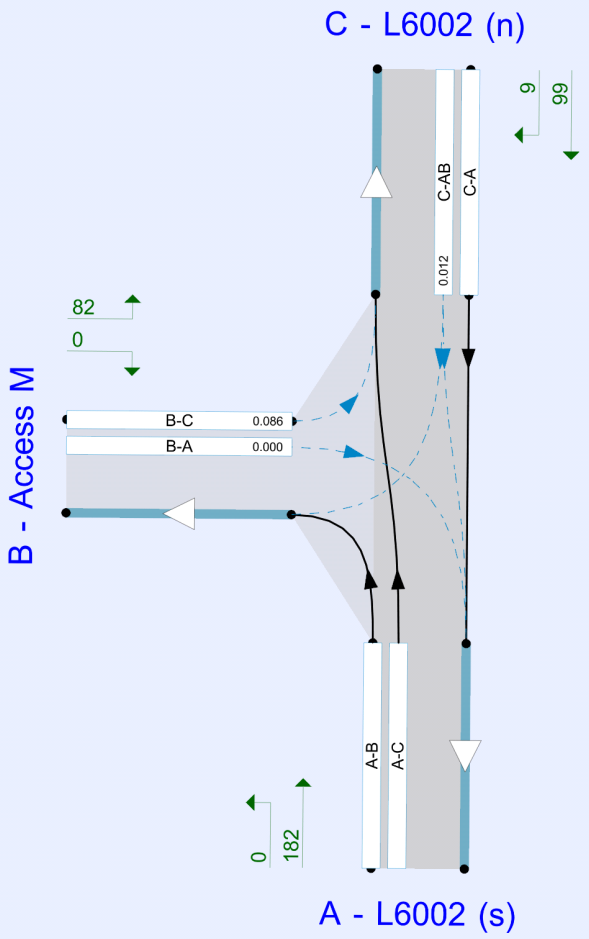
File summary

File Description

Title	Access junction 7, Site Entrance M - L6002
Location	Ballydermot Wind Farm
Site number	
Date	30/06/2026
Version	
Status	(new file)
Identifier	
Client	Bord na Mona
Jobnumber	8571
Enumerator	Alan Lipscombe
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Av. delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin



Flows show original traffic demand (PCU/hr)
Streams (downstream end) show RFC ()

The junction diagram reflects the last run of Junctions.

Analysis Options

PICADY short flare model	Calculate Q Percentiles	Calculate residual capacity	Residual capacity criteria type	RFC Threshold	Av. Delay threshold (s)	Q threshold (PCU)
JUNCTIONS 11.1	✓	✓	Delay	0.85	36.00	20.00

Demand Set Summary

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2032	Dev	AM	ONE HOUR	07:45	09:15	15
D2	2032	Dev	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Name	Network flow scaling factor (%)
A1	Proposed	100.000

Proposed - D1 - 2032 | Dev | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Access M - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.
Warning	Major arm width	C - L6002 (n) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	Access Junction	T-Junction	Two-way	Two-way	Two-way	1.51	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	194	Stream C-AB	1.51	A

Arms

Arms

Arm	Name	Description	Arm type
A	L6002 (s)		Major
B	Access M		Minor
C	L6002 (n)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - L6002 (n)	5.00			120.0	✓	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	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate flare length	Flare length (PCU)	Visibility to left (m)	Visibility to right (m)
B - Access M	One lane plus flare	10.00	5.70	3.70	3.30	3.00	✓	1.00	100	100

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	552	0.105	0.265	0.167	0.379
B-C	756	0.121	0.306	-	-
C-B	643	0.260	0.260	-	-

The slopes and intercepts shown above include custom intercept adjustments only.

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	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2032	Dev	AM	ONE HOUR	07:45	09:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - L6002 (s)		✓	240	100.000
B - Access M		✓	9	100.000
C - L6002 (n)		✓	244	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - L6002 (s)	B - Access M	C - L6002 (n)
From	A - L6002 (s)	0	0	240
	B - Access M	0	0	9
	C - L6002 (n)	162	82	0

Vehicle Mix

Heavy Vehicle %

		To		
		A - L6002 (s)	B - Access M	C - L6002 (n)
From	A - L6002 (s)	0	5	5
	B - Access M	5	0	5
	C - L6002 (n)	5	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
B-C	0.01	5.68	0.0	0.5	A
B-A	0.00	0.00	0.0	~1	A
C-AB	0.17	6.59	0.3	1.0	A
C-A					
A-B					
A-C					

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	7	0.00	700	0.010	7	0.0	5.448	A
B-A	0	0.00	461	0.000	0	0.0	0.000	A
C-AB	75	0.00	678	0.111	75	0.2	6.261	A
C-A	108	0.00			108			
A-B	0	0.00			0			
A-C	181	0.00			181			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	0.00	690	0.012	8	0.0	5.544	A
B-A	0	0.00	443	0.000	0	0.0	0.000	A
C-AB	94	0.00	686	0.137	94	0.2	6.386	A
C-A	126	0.00			126			
A-B	0	0.00			0			
A-C	216	0.00			216			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	10	0.00	675	0.015	10	0.0	5.683	A
B-A	0	0.00	418	0.000	0	0.0	0.000	A
C-AB	122	0.00	696	0.175	121	0.3	6.577	A
C-A	147	0.00			147			
A-B	0	0.00			0			
A-C	264	0.00			264			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	10	0.00	675	0.015	10	0.0	5.683	A
B-A	0	0.00	418	0.000	0	0.0	0.000	A
C-AB	122	0.00	696	0.175	122	0.3	6.585	A
C-A	147	0.00			147			
A-B	0	0.00			0			
A-C	264	0.00			264			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	0.00	690	0.012	8	0.0	5.544	A
B-A	0	0.00	442	0.000	0	0.0	0.000	A
C-AB	94	0.00	686	0.137	94	0.2	6.399	A
C-A	126	0.00			126			
A-B	0	0.00			0			
A-C	216	0.00			216			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	7	0.00	700	0.010	7	0.0	5.450	A
B-A	0	0.00	460	0.000	0	0.0	0.000	A
C-AB	75	0.00	678	0.111	76	0.2	6.277	A
C-A	108	0.00			108			
A-B	0	0.00			0			
A-C	181	0.00			181			

Q Variation Results for each time segment

07:45 - 08:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.01	0.00	0.00	0.01	0.01			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.16	0.00	0.00	0.16	0.16			N/A	N/A

08:00 - 08:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.01	0.01	0.26	0.47	0.50			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.21	0.00	0.00	0.21	0.21			N/A	N/A

08:15 - 08:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.02	0.00	0.00	0.02	0.02			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.29	0.03	0.27	0.49	0.52			N/A	N/A

08:30 - 08:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.02	0.00	0.00	0.02	0.02			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.29	0.03	0.29	0.52	0.99			N/A	N/A

08:45 - 09:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.01	0.00	0.00	0.01	0.01			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.21	0.00	0.00	0.21	0.21			N/A	N/A

09:00 - 09:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.01	0.00	0.00	0.01	0.01			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.16	0.00	0.00	0.16	0.16			N/A	N/A

Proposed - D2 - 2032 | Dev | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Access M - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.
Warning	Major arm width	C - L6002 (n) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	Access Junction	T-Junction	Two-way	Two-way	Two-way	1.54	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	331	Stream B-C	1.54	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2032	Dev	PM	ONE HOUR	16:45	18:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - L6002 (s)		✓	182	100.000
B - Access M		✓	82	100.000
C - L6002 (n)		✓	108	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - L6002 (s)	B - Access M	C - L6002 (n)
From	A - L6002 (s)	0	0	182
	B - Access M	0	0	82
	C - L6002 (n)	99	9	0

Vehicle Mix

Heavy Vehicle %

		To		
		A - L6002 (s)	B - Access M	C - L6002 (n)
From	A - L6002 (s)	0	5	5
	B - Access M	5	0	5
	C - L6002 (n)	5	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
B-C	0.13	6.26	0.2	0.5	A
B-A	0.00	0.00	0.0	~1	A
C-AB	0.02	5.82	0.0	0.5	A
C-A					
A-B					
A-C					

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	62	0.00	714	0.086	61	0.1	5.789	A
B-A	0	0.00	501	0.000	0	0.0	0.000	A
C-AB	8	0.00	657	0.012	8	0.0	5.818	A
C-A	74	0.00			74			
A-B	0	0.00			0			
A-C	137	0.00			137			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	74	0.00	706	0.104	74	0.1	5.980	A
B-A	0	0.00	491	0.000	0	0.0	0.000	A
C-AB	9	0.00	660	0.014	9	0.0	5.807	A
C-A	88	0.00			88			
A-B	0	0.00			0			
A-C	164	0.00			164			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	90	0.00	694	0.130	90	0.2	6.253	A
B-A	0	0.00	477	0.000	0	0.0	0.000	A
C-AB	12	0.00	665	0.018	12	0.0	5.791	A
C-A	107	0.00			107			
A-B	0	0.00			0			
A-C	200	0.00			200			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	90	0.00	694	0.130	90	0.2	6.255	A
B-A	0	0.00	477	0.000	0	0.0	0.000	A
C-AB	12	0.00	665	0.018	12	0.0	5.791	A
C-A	107	0.00			107			
A-B	0	0.00			0			
A-C	200	0.00			200			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	74	0.00	706	0.104	74	0.1	5.985	A
B-A	0	0.00	491	0.000	0	0.0	0.000	A
C-AB	9	0.00	660	0.014	9	0.0	5.810	A
C-A	88	0.00			88			
A-B	0	0.00			0			
A-C	164	0.00			164			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	62	0.00	714	0.086	62	0.1	5.800	A
B-A	0	0.00	501	0.000	0	0.0	0.000	A
C-AB	8	0.00	657	0.012	8	0.0	5.819	A
C-A	74	0.00			74			
A-B	0	0.00			0			
A-C	137	0.00			137			

Q Variation Results for each time segment

16:45 - 17:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.10	0.00	0.00	0.10	0.10			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

17:00 - 17:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.12	0.00	0.00	0.12	0.12			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.02	0.02	0.26	0.47	0.50			N/A	N/A

17:15 - 17:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.16	0.03	0.27	0.49	0.51			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.02	0.00	0.00	0.02	0.02			N/A	N/A

17:30 - 17:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.16	0.03	0.26	0.47	0.50			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.02	0.00	0.00	0.02	0.02			N/A	N/A

17:45 - 18:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.12	0.00	0.00	0.12	0.12			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.02	0.00	0.00	0.02	0.02			N/A	N/A

18:00 - 18:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.10	0.00	0.00	0.10	0.10			N/A	N/A
B-A	0.00	0.00	0.00	0.00	0.00			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

Existing junction A, R402 / R400 junction, Mount Lucas, PICADY11 output

Junctions 11

PICADY 11 - Priority Intersection Module

Version: 11.1.1.2424
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Filename: External Junction A.j11
Path: C:\AL Files\AL traffic Jobs Live\8571 - Ballydermot 2025\Picady
Report generation date: 11/10/2026 16:08:16

»Proposed - D1 - 2032 | No Dev | AM
»Proposed - D2 - 2032 | With Dev | AM
»Proposed - D3 - 2032 | No Dev | PM
»Proposed - D4 - 2032 | With Dev | PM

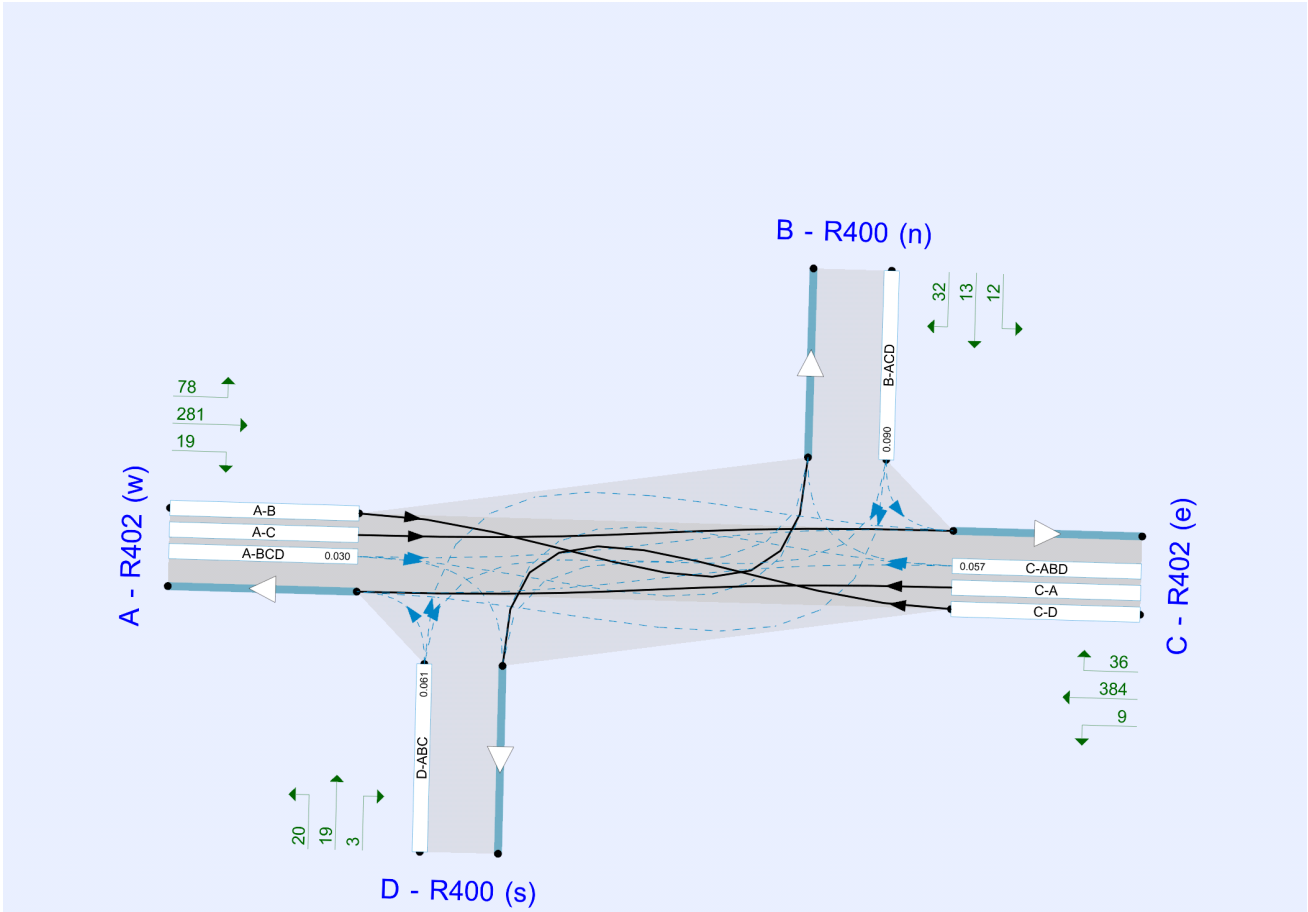
File summary

File Description

Title	External junction A, R402 / R400 Staggered junction, Mount Lucas
Location	Ballydermot Wind Farm
Site number	
Date	30/06/2026
Version	
Status	(new file)
Identifier	
Client	Bord na Mona
Jobnumber	8571
Enumerator	Alan Lipscombe
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Av. delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin



Flows show original traffic demand (PCU/hr)
Streams (downstream end) show RFC ()

The junction diagram reflects the last run of Junctions.

Analysis Options

PICADY short flare model	Calculate Q Percentiles	Calculate residual capacity	Residual capacity criteria type	RFC Threshold	Av. Delay threshold (s)	Q threshold (PCU)
JUNCTIONS 11.1	✓	✓	Delay	0.85	36.00	20.00

Demand Set Summary

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2032	No Dev	AM	ONE HOUR	07:45	09:15	15
D2	2032	With Dev	AM	ONE HOUR	07:45	09:15	15
D3	2032	No Dev	PM	ONE HOUR	16:45	18:15	15
D4	2032	With Dev	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Name	Network flow scaling factor (%)
A1	Proposed	100.000

Proposed - D1 - 2032 | No Dev | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Junction Delay (s)	Junction LOS
1	Access Junction	Right-Left Stagger	Two-way	Two-way	Two-way	Two-way	3.44	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	70	Stream B-ACD	3.44	A

Arms

Arms

Arm	Name	Description	Arm type
A	R402 (w)		Major
B	R400 (n)		Minor
C	R402 (e)		Major
D	R400 (s)		Minor

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
A - R402 (w)	9.00			100.0	✓	0.00
C - R402 (e)	7.00			100.0	✓	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 - R400 (n)	One lane	3.50	70	70
D - R400 (s)	One lane	3.50	70	70

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for A-D	Slope for B-A	Slope for B-D	Slope for C-A	Slope for C-B	Slope for C-D	Slope for D-B	Slope for D-C
A-D	632	-	-	-	0.213	0.213	0.213	-	0.213	-	-
B-AD	562	0.098	0.247	-	-	-	0.156	0.354	0.156	0.098	0.247
B-C	701	0.103	0.260	-	-	-	-	-	-	0.103	0.260
C-B	632	0.234	0.234	-	-	-	-	-	-	0.234	0.234
D-A	701	-	-	-	0.236	0.093	0.236	-	0.093	-	-
D-BC	562	0.142	0.142	0.321	0.225	0.089	0.225	-	0.089	-	-

The slopes and intercepts shown above include custom intercept adjustments only.

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	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2032	No Dev	AM	ONE HOUR	07:45	09:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - R402 (w)		✓	340	100.000
B - R400 (n)		✓	146	100.000
C - R402 (e)		✓	236	100.000
D - R400 (s)		✓	47	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - R402 (w)	B - R400 (n)	C - R402 (e)	D - R400 (s)
From	A - R402 (w)	0	34	269	37
	B - R400 (n)	92	0	29	25
	C - R402 (e)	197	20	0	19
	D - R400 (s)	26	18	3	0

Vehicle Mix

Heavy Vehicle %

		To			
		A - R402 (w)	B - R400 (n)	C - R402 (e)	D - R400 (s)
From	A - R402 (w)	0	5	5	0
	B - R400 (n)	5	0	5	0
	C - R402 (e)	5	5	0	0
	D - R400 (s)	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
B-ACD	0.35	12.35	0.5	2.5	B
A-BCD	0.09	5.29	0.2	1.1	A
A-B					
A-C					
D-ABC	0.10	7.77	0.1	0.5	A
C-ABD	0.05	5.67	0.1	0.5	A
C-D					
C-A					

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	110	0.00	503	0.219	109	0.3	9.485	A
A-BCD	40	0.00	733	0.055	40	0.1	5.271	A
A-B	24	0.00			24			
A-C	191	0.00			191			
D-ABC	35	0.00	553	0.064	35	0.1	6.947	A
C-ABD	20	0.00	685	0.029	20	0.0	5.671	A
C-D	14	0.00			14			
C-A	144	0.00			144			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	131	0.00	487	0.270	131	0.4	10.525	B
A-BCD	52	0.00	754	0.069	52	0.1	5.210	A
A-B	28	0.00			28			
A-C	225	0.00			225			
D-ABC	42	0.00	537	0.079	42	0.1	7.271	A
C-ABD	25	0.00	697	0.036	25	0.1	5.617	A
C-D	16	0.00			16			
C-A	171	0.00			171			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	161	0.00	464	0.346	160	0.5	12.294	B
A-BCD	71	0.00	785	0.091	71	0.2	5.142	A
A-B	34	0.00			34			
A-C	269	0.00			269			
D-ABC	52	0.00	515	0.100	52	0.1	7.761	A
C-ABD	33	0.00	714	0.046	33	0.1	5.545	A
C-D	20	0.00			20			
C-A	207	0.00			207			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	161	0.00	464	0.346	161	0.5	12.347	B
A-BCD	71	0.00	785	0.091	71	0.2	5.154	A
A-B	34	0.00			34			
A-C	269	0.00			269			
D-ABC	52	0.00	515	0.100	52	0.1	7.767	A
C-ABD	33	0.00	714	0.046	33	0.1	5.549	A
C-D	20	0.00			20			
C-A	207	0.00			207			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	131	0.00	487	0.270	132	0.4	10.587	B
A-BCD	52	0.00	754	0.069	53	0.1	5.235	A
A-B	28	0.00			28			
A-C	225	0.00			225			
D-ABC	42	0.00	537	0.079	42	0.1	7.278	A
C-ABD	25	0.00	697	0.036	25	0.1	5.618	A
C-D	16	0.00			16			
C-A	171	0.00			171			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	110	0.00	503	0.219	110	0.3	9.562	A
A-BCD	41	0.00	733	0.055	41	0.1	5.289	A
A-B	24	0.00			24			
A-C	191	0.00			191			
D-ABC	35	0.00	553	0.064	35	0.1	6.962	A
C-ABD	20	0.00	685	0.029	20	0.0	5.675	A
C-D	14	0.00			14			
C-A	144	0.00			144			

Q Variation Results for each time segment

07:45 - 08:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.29	0.00	0.00	0.29	0.29			N/A	N/A
A-BCD	0.09	0.00	0.00	0.09	0.09			N/A	N/A
D-ABC	0.07	0.00	0.00	0.07	0.07			N/A	N/A
C-ABD	0.04	0.00	0.00	0.04	0.04			N/A	N/A

08:00 - 08:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.38	0.00	0.00	0.38	0.38			N/A	N/A
A-BCD	0.12	0.03	0.26	0.46	0.49			N/A	N/A
D-ABC	0.08	0.03	0.26	0.47	0.50			N/A	N/A
C-ABD	0.05	0.03	0.26	0.47	0.50			N/A	N/A

08:15 - 08:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.54	0.03	0.27	0.54	0.54			N/A	N/A
A-BCD	0.18	0.03	0.28	0.50	1.15			N/A	N/A
D-ABC	0.11	0.03	0.26	0.47	0.49			N/A	N/A
C-ABD	0.07	0.03	0.27	0.48	0.51			N/A	N/A

08:30 - 08:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.55	0.03	0.31	1.40	2.54			N/A	N/A
A-BCD	0.18	0.00	0.00	0.18	0.18			N/A	N/A
D-ABC	0.11	0.03	0.25	0.45	0.48			N/A	N/A
C-ABD	0.07	0.00	0.00	0.07	0.07			N/A	N/A

08:45 - 09:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.39	0.00	0.00	0.39	0.39			N/A	N/A
A-BCD	0.13	0.00	0.00	0.13	0.13			N/A	N/A
D-ABC	0.09	0.00	0.00	0.09	0.09			N/A	N/A
C-ABD	0.05	0.00	0.00	0.05	0.05			N/A	N/A

09:00 - 09:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.30	0.00	0.00	0.30	0.30			N/A	N/A
A-BCD	0.09	0.00	0.00	0.09	0.09			N/A	N/A
D-ABC	0.07	0.00	0.00	0.07	0.07			N/A	N/A
C-ABD	0.04	0.00	0.00	0.04	0.04			N/A	N/A

Proposed - D2 - 2032 | With Dev | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Junction Delay (s)	Junction LOS
1	Access Junction	Right-Left Stagger	Two-way	Two-way	Two-way	Two-way	3.14	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	41	Stream B-ACD	3.14	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2032	With Dev	AM	ONE HOUR	07:45	09:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - R402 (w)		✓	499	100.000
B - R400 (n)		✓	146	100.000
C - R402 (e)		✓	322	100.000
D - R400 (s)		✓	47	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - R402 (w)	B - R400 (n)	C - R402 (e)	D - R400 (s)
From	A - R402 (w)	0	34	428	37
	B - R400 (n)	92	0	29	25
	C - R402 (e)	283	20	0	19
	D - R400 (s)	26	18	3	0

Vehicle Mix

Heavy Vehicle %

		To			
		A - R402 (w)	B - R400 (n)	C - R402 (e)	D - R400 (s)
From	A - R402 (w)	0	5	5	0
	B - R400 (n)	5	0	5	0
	C - R402 (e)	5	5	0	0
	D - R400 (s)	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
B-ACD	0.40	15.25	0.7	3.1	C
A-BCD	0.11	4.89	0.2	1.3	A
A-B					
A-C					
D-ABC	0.11	8.49	0.1	0.5	A
C-ABD	0.05	5.53	0.1	0.5	A
C-D					
C-A					

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	110	0.00	464	0.237	109	0.3	10.522	B
A-BCD	49	0.00	803	0.061	49	0.1	4.870	A
A-B	24	0.00			24			
A-C	303	0.00			303			
D-ABC	35	0.00	527	0.067	35	0.1	7.315	A
C-ABD	22	0.00	705	0.032	22	0.0	5.527	A
C-D	14	0.00			14			
C-A	206	0.00			206			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	131	0.00	440	0.299	131	0.4	12.117	B
A-BCD	66	0.00	840	0.079	66	0.1	4.761	A
A-B	28	0.00			28			
A-C	354	0.00			354			
D-ABC	42	0.00	506	0.084	42	0.1	7.766	A
C-ABD	29	0.00	722	0.040	29	0.1	5.449	A
C-D	16	0.00			16			
C-A	244	0.00			244			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	161	0.00	406	0.395	160	0.7	15.138	C
A-BCD	95	0.00	892	0.107	95	0.2	4.642	A
A-B	33	0.00			33			
A-C	421	0.00			421			
D-ABC	52	0.00	476	0.109	52	0.1	8.484	A
C-ABD	40	0.00	746	0.053	40	0.1	5.344	A
C-D	20	0.00			20			
C-A	295	0.00			295			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	161	0.00	406	0.396	161	0.7	15.251	C
A-BCD	95	0.00	892	0.107	95	0.2	4.655	A
A-B	33	0.00			33			
A-C	421	0.00			421			
D-ABC	52	0.00	476	0.109	52	0.1	8.492	A
C-ABD	40	0.00	746	0.053	40	0.1	5.348	A
C-D	20	0.00			20			
C-A	295	0.00			295			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	131	0.00	439	0.299	132	0.5	12.230	B
A-BCD	66	0.00	840	0.079	67	0.2	4.785	A
A-B	28	0.00			28			
A-C	354	0.00			354			
D-ABC	42	0.00	505	0.084	42	0.1	7.779	A
C-ABD	29	0.00	722	0.040	29	0.1	5.451	A
C-D	16	0.00			16			
C-A	244	0.00			244			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	110	0.00	463	0.237	110	0.3	10.631	B
A-BCD	49	0.00	803	0.061	50	0.1	4.888	A
A-B	24	0.00			24			
A-C	302	0.00			302			
D-ABC	35	0.00	527	0.067	35	0.1	7.332	A
C-ABD	22	0.00	705	0.032	22	0.0	5.531	A
C-D	14	0.00			14			
C-A	206	0.00			206			

Q Variation Results for each time segment

07:45 - 08:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.32	0.00	0.00	0.32	0.32			N/A	N/A
A-BCD	0.10	0.00	0.00	0.10	0.10			N/A	N/A
D-ABC	0.07	0.00	0.00	0.07	0.07			N/A	N/A
C-ABD	0.04	0.00	0.00	0.04	0.04			N/A	N/A

08:00 - 08:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.44	0.00	0.00	0.44	0.44			N/A	N/A
A-BCD	0.15	0.03	0.27	0.49	0.66			N/A	N/A
D-ABC	0.09	0.03	0.25	0.45	0.48			N/A	N/A
C-ABD	0.06	0.03	0.26	0.47	0.50			N/A	N/A

08:15 - 08:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.66	0.03	0.27	0.66	0.66			N/A	N/A
A-BCD	0.24	0.03	0.28	0.51	1.35			N/A	N/A
D-ABC	0.12	0.03	0.26	0.47	0.49			N/A	N/A
C-ABD	0.09	0.03	0.27	0.49	0.52			N/A	N/A

08:30 - 08:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.67	0.03	0.31	1.42	3.11			N/A	N/A
A-BCD	0.24	0.00	0.00	0.24	0.24			N/A	N/A
D-ABC	0.12	0.03	0.25	0.45	0.48			N/A	N/A
C-ABD	0.09	0.00	0.00	0.09	0.09			N/A	N/A

08:45 - 09:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.45	0.03	0.35	1.15	1.36			N/A	N/A
A-BCD	0.15	0.00	0.00	0.15	0.15			N/A	N/A
D-ABC	0.09	0.00	0.00	0.09	0.09			N/A	N/A
C-ABD	0.06	0.00	0.00	0.06	0.06			N/A	N/A

09:00 - 09:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.33	0.03	0.27	0.49	0.51			N/A	N/A
A-BCD	0.11	0.00	0.00	0.11	0.11			N/A	N/A
D-ABC	0.07	0.00	0.00	0.07	0.07			N/A	N/A
C-ABD	0.04	0.00	0.00	0.04	0.04			N/A	N/A

Proposed - D3 - 2032 | No Dev | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Junction Delay (s)	Junction LOS
1	Access Junction	Right-Left Stagger	Two-way	Two-way	Two-way	Two-way	1.95	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	169	Stream B-ACD	1.95	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D3	2032	No Dev	PM	ONE HOUR	16:45	18:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - R402 (w)		✓	292	100.000
B - R400 (n)		✓	57	100.000
C - R402 (e)		✓	270	100.000
D - R400 (s)		✓	42	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - R402 (w)	B - R400 (n)	C - R402 (e)	D - R400 (s)
From	A - R402 (w)	0	78	195	19
	B - R400 (n)	32	0	12	13
	C - R402 (e)	225	36	0	9
	D - R400 (s)	20	19	3	0

Vehicle Mix

Heavy Vehicle %

		To			
		A - R402 (w)	B - R400 (n)	C - R402 (e)	D - R400 (s)
From	A - R402 (w)	0	5	5	0
	B - R400 (n)	5	0	5	0
	C - R402 (e)	5	5	0	0
	D - R400 (s)	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
B-ACD	0.13	9.10	0.2	0.5	A
A-BCD	0.04	5.18	0.1	0.5	A
A-B					
A-C					
D-ABC	0.09	7.61	0.1	0.5	A
C-ABD	0.08	5.70	0.2	1.0	A
C-D					
C-A					

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	43	0.00	509	0.084	43	0.1	7.997	A
A-BCD	20	0.00	726	0.028	20	0.0	5.170	A
A-B	57	0.00			57			
A-C	143	0.00			143			
D-ABC	32	0.00	552	0.057	31	0.1	6.912	A
C-ABD	36	0.00	699	0.052	36	0.1	5.695	A
C-D	6	0.00			6			
C-A	161	0.00			161			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	51	0.00	494	0.104	51	0.1	8.432	A
A-BCD	26	0.00	745	0.034	25	0.0	5.077	A
A-B	68	0.00			68			
A-C	169	0.00			169			
D-ABC	38	0.00	538	0.070	38	0.1	7.191	A
C-ABD	46	0.00	714	0.064	46	0.1	5.659	A
C-D	8	0.00			8			
C-A	189	0.00			189			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	63	0.00	473	0.133	63	0.2	9.098	A
A-BCD	34	0.00	772	0.044	34	0.1	4.962	A
A-B	82	0.00			82			
A-C	205	0.00			205			
D-ABC	46	0.00	519	0.089	46	0.1	7.608	A
C-ABD	61	0.00	734	0.083	61	0.2	5.618	A
C-D	9	0.00			9			
C-A	227	0.00			227			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	63	0.00	473	0.133	63	0.2	9.105	A
A-BCD	34	0.00	772	0.044	34	0.1	4.972	A
A-B	82	0.00			82			
A-C	205	0.00			205			
D-ABC	46	0.00	519	0.089	46	0.1	7.609	A
C-ABD	61	0.00	734	0.084	61	0.2	5.620	A
C-D	9	0.00			9			
C-A	227	0.00			227			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	51	0.00	494	0.104	51	0.1	8.444	A
A-BCD	26	0.00	745	0.034	26	0.0	5.096	A
A-B	68	0.00			68			
A-C	169	0.00			169			
D-ABC	38	0.00	538	0.070	38	0.1	7.195	A
C-ABD	46	0.00	714	0.065	46	0.1	5.663	A
C-D	8	0.00			8			
C-A	189	0.00			189			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	43	0.00	509	0.084	43	0.1	8.017	A
A-BCD	20	0.00	726	0.028	20	0.0	5.181	A
A-B	57	0.00			57			
A-C	143	0.00			143			
D-ABC	32	0.00	552	0.057	32	0.1	6.921	A
C-ABD	36	0.00	699	0.052	36	0.1	5.703	A
C-D	6	0.00			6			
C-A	161	0.00			161			

Q Variation Results for each time segment

16:45 - 17:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.09	0.00	0.00	0.09	0.09			N/A	N/A
A-BCD	0.04	0.00	0.00	0.04	0.04			N/A	N/A
D-ABC	0.06	0.00	0.00	0.06	0.06			N/A	N/A
C-ABD	0.08	0.00	0.00	0.08	0.08			N/A	N/A

17:00 - 17:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.12	0.00	0.00	0.12	0.12			N/A	N/A
A-BCD	0.05	0.03	0.26	0.46	0.49			N/A	N/A
D-ABC	0.07	0.03	0.25	0.45	0.48			N/A	N/A
C-ABD	0.11	0.03	0.26	0.48	0.50			N/A	N/A

17:15 - 17:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.16	0.03	0.27	0.48	0.51			N/A	N/A
A-BCD	0.07	0.03	0.26	0.47	0.49			N/A	N/A
D-ABC	0.10	0.03	0.26	0.47	0.49			N/A	N/A
C-ABD	0.16	0.03	0.28	0.51	1.01			N/A	N/A

17:30 - 17:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.16	0.03	0.26	0.47	0.49			N/A	N/A
A-BCD	0.07	0.00	0.00	0.07	0.07			N/A	N/A
D-ABC	0.10	0.03	0.25	0.45	0.48			N/A	N/A
C-ABD	0.16	0.00	0.00	0.16	0.16			N/A	N/A

17:45 - 18:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.12	0.00	0.00	0.12	0.12			N/A	N/A
A-BCD	0.05	0.00	0.00	0.05	0.05			N/A	N/A
D-ABC	0.08	0.00	0.00	0.08	0.08			N/A	N/A
C-ABD	0.11	0.00	0.00	0.11	0.11			N/A	N/A

18:00 - 18:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.10	0.00	0.00	0.10	0.10			N/A	N/A
A-BCD	0.04	0.00	0.00	0.04	0.04			N/A	N/A
D-ABC	0.06	0.00	0.00	0.06	0.06			N/A	N/A
C-ABD	0.09	0.00	0.00	0.09	0.09			N/A	N/A

Proposed - D4 - 2032 | With Dev | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Junction Delay (s)	Junction LOS
1	Access Junction	Right-Left Stagger	Two-way	Two-way	Two-way	Two-way	1.62	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	109	Stream B-ACD	1.62	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D4	2032	With Dev	PM	ONE HOUR	16:45	18:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - R402 (w)		✓	378	100.000
B - R400 (n)		✓	57	100.000
C - R402 (e)		✓	429	100.000
D - R400 (s)		✓	42	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - R402 (w)	B - R400 (n)	C - R402 (e)	D - R400 (s)
From	A - R402 (w)	0	78	281	19
	B - R400 (n)	32	0	12	13
	C - R402 (e)	384	36	0	9
	D - R400 (s)	20	19	3	0

Vehicle Mix

Heavy Vehicle %

		To			
		A - R402 (w)	B - R400 (n)	C - R402 (e)	D - R400 (s)
From	A - R402 (w)	0	5	5	0
	B - R400 (n)	5	0	5	0
	C - R402 (e)	5	5	0	0
	D - R400 (s)	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
B-ACD	0.15	10.34	0.2	0.5	B
A-BCD	0.05	5.06	0.1	0.5	A
A-B					
A-C					
D-ABC	0.10	8.53	0.1	0.5	A
C-ABD	0.10	5.22	0.2	1.3	A
C-D					
C-A					

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	43	0.00	476	0.090	43	0.1	8.604	A
A-BCD	22	0.00	748	0.030	22	0.0	5.050	A
A-B	57	0.00			57			
A-C	205	0.00			205			
D-ABC	32	0.00	518	0.061	31	0.1	7.401	A
C-ABD	44	0.00	768	0.057	44	0.1	5.218	A
C-D	6	0.00			6			
C-A	272	0.00			272			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	51	0.00	455	0.113	51	0.1	9.258	A
A-BCD	29	0.00	772	0.038	29	0.1	4.936	A
A-B	67	0.00			67			
A-C	243	0.00			243			
D-ABC	38	0.00	497	0.076	38	0.1	7.837	A
C-ABD	58	0.00	797	0.073	58	0.1	5.116	A
C-D	7	0.00			7			
C-A	320	0.00			320			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	63	0.00	424	0.148	63	0.2	10.325	B
A-BCD	41	0.00	808	0.051	41	0.1	4.797	A
A-B	82	0.00			82			
A-C	294	0.00			294			
D-ABC	46	0.00	468	0.099	46	0.1	8.526	A
C-ABD	82	0.00	838	0.098	82	0.2	4.998	A
C-D	9	0.00			9			
C-A	381	0.00			381			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	63	0.00	424	0.148	63	0.2	10.337	B
A-BCD	41	0.00	808	0.051	41	0.1	4.807	A
A-B	81	0.00			81			
A-C	294	0.00			294			
D-ABC	46	0.00	468	0.099	46	0.1	8.532	A
C-ABD	82	0.00	838	0.098	82	0.2	5.002	A
C-D	9	0.00			9			
C-A	381	0.00			381			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	51	0.00	455	0.113	51	0.1	9.277	A
A-BCD	29	0.00	772	0.038	30	0.1	4.956	A
A-B	67	0.00			67			
A-C	243	0.00			243			
D-ABC	38	0.00	497	0.076	38	0.1	7.846	A
C-ABD	58	0.00	797	0.073	59	0.1	5.124	A
C-D	7	0.00			7			
C-A	320	0.00			320			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	43	0.00	476	0.090	43	0.1	8.629	A
A-BCD	22	0.00	748	0.030	23	0.0	5.063	A
A-B	57	0.00			57			
A-C	205	0.00			205			
D-ABC	32	0.00	517	0.061	32	0.1	7.411	A
C-ABD	44	0.00	768	0.058	44	0.1	5.225	A
C-D	6	0.00			6			
C-A	272	0.00			272			

Q Variation Results for each time segment

16:45 - 17:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.10	0.00	0.00	0.10	0.10			N/A	N/A
A-BCD	0.04	0.00	0.00	0.04	0.04			N/A	N/A
D-ABC	0.06	0.00	0.00	0.06	0.06			N/A	N/A
C-ABD	0.10	0.00	0.00	0.10	0.10			N/A	N/A

17:00 - 17:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.13	0.00	0.00	0.13	0.13			N/A	N/A
A-BCD	0.05	0.03	0.26	0.46	0.49			N/A	N/A
D-ABC	0.08	0.03	0.26	0.47	0.49			N/A	N/A
C-ABD	0.14	0.03	0.28	0.50	0.52			N/A	N/A

17:15 - 17:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.18	0.03	0.27	0.48	0.51			N/A	N/A
A-BCD	0.08	0.03	0.26	0.48	0.50			N/A	N/A
D-ABC	0.11	0.03	0.26	0.47	0.49			N/A	N/A
C-ABD	0.21	0.03	0.29	0.52	1.28			N/A	N/A

17:30 - 17:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.18	0.03	0.26	0.47	0.50			N/A	N/A
A-BCD	0.08	0.00	0.00	0.08	0.08			N/A	N/A
D-ABC	0.11	0.03	0.25	0.45	0.48			N/A	N/A
C-ABD	0.21	0.00	0.00	0.21	0.21			N/A	N/A

17:45 - 18:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.13	0.00	0.00	0.13	0.13			N/A	N/A
A-BCD	0.06	0.00	0.00	0.06	0.06			N/A	N/A
D-ABC	0.08	0.00	0.00	0.08	0.08			N/A	N/A
C-ABD	0.14	0.00	0.00	0.14	0.14			N/A	N/A

18:00 - 18:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.10	0.00	0.00	0.10	0.10			N/A	N/A
A-BCD	0.04	0.00	0.00	0.04	0.04			N/A	N/A
D-ABC	0.07	0.00	0.00	0.07	0.07			N/A	N/A
C-ABD	0.10	0.00	0.00	0.10	0.10			N/A	N/A

Existing junction B, R402 / R401 junction, Edenderry, PICADY11 output

Junctions 11

PICADY 11 - Priority Intersection Module

Version: 11.1.1.2424
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Filename: External Junction B.j11
Path: C:\AL Files\AL traffic Jobs Live\8571 - Ballydermot 2025\Picady
Report generation date: 11/10/2026 16:10:22

»Proposed - D1 - 2032 | No Dev | AM
»Proposed - D2 - 2032 | With Dev | AM
»Proposed - D3 - 2032 | No Dev | PM
»Proposed - D4 - 2032 | With Dev | PM

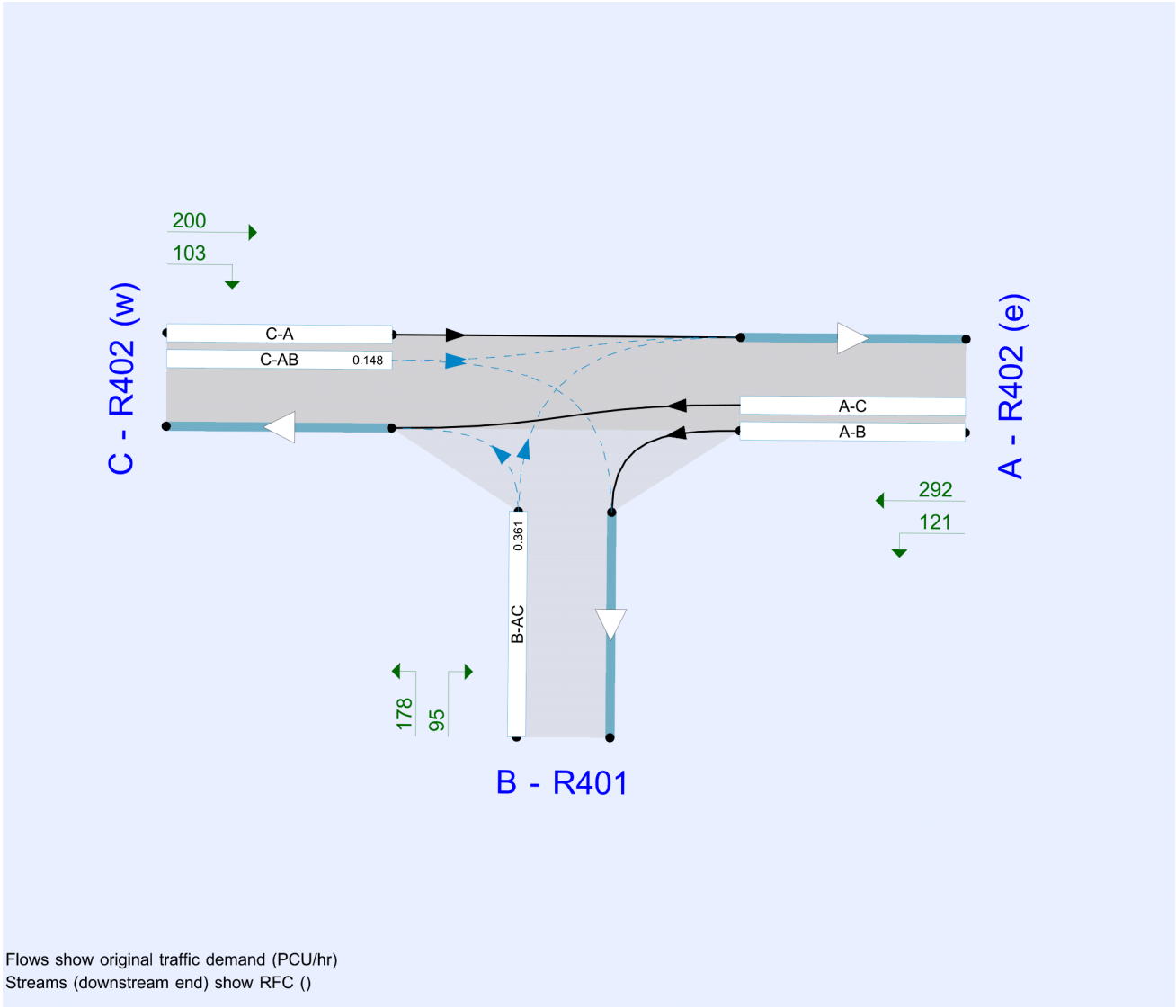
File summary

File Description

Title	External junction B, R402 / R401, Edenderry
Location	Ballydermot Wind Farm
Site number	
Date	30/06/2026
Version	
Status	(new file)
Identifier	
Client	Bord na Mona
Jobnumber	8571
Enumerator	Alan Lipscombe
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Av. delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin



Flows show original traffic demand (PCU/hr)
Streams (downstream end) show RFC ()

The junction diagram reflects the last run of Junctions.

Analysis Options

PICADY short flare model	Calculate Q Percentiles	Calculate residual capacity	Residual capacity criteria type	RFC Threshold	Av. Delay threshold (s)	Q threshold (PCU)
JUNCTIONS 11.1	✓	✓	Delay	0.85	36.00	20.00

Demand Set Summary

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2032	No Dev	AM	ONE HOUR	07:45	09:15	15
D2	2032	With Dev	AM	ONE HOUR	07:45	09:15	15
D3	2032	No Dev	PM	ONE HOUR	16:45	18:15	15
D4	2032	With Dev	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Name	Network flow scaling factor (%)
A1	Proposed	100.000

Proposed - D1 - 2032 | No Dev | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	Access Junction	T-Junction	Two-way	Two-way	Two-way	2.08	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	91	Stream B-AC	2.08	A

Arms

Arms

Arm	Name	Description	Arm type
A	R402 (e)		Major
B	R401		Minor
C	R402 (w)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - R402 (w)	7.50			120.0	✓	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 - R401	One lane	3.75	70	70

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	575	0.098	0.248	0.156	0.354
B-C	718	0.103	0.260	-	-
C-B	643	0.233	0.233	-	-

The slopes and intercepts shown above include custom intercept adjustments only.

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	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2032	No Dev	AM	ONE HOUR	07:45	09:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - R402 (e)		✓	302	100.000
B - R401		✓	95	100.000
C - R402 (w)		✓	439	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - R402 (e)	B - R401	C - R402 (w)
From	A - R402 (e)	0	87	215
	B - R401	74	0	21
	C - R402 (w)	366	73	0

Vehicle Mix

Heavy Vehicle %

		To		
		A - R402 (e)	B - R401	C - R402 (w)
From	A - R402 (e)	0	5	5
	B - R401	5	0	5
	C - R402 (w)	5	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
B-AC	0.23	10.90	0.3	1.4	B
C-AB	0.18	5.50	0.4	1.3	A
C-A					
A-B					
A-C					

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	72	0.00	500	0.143	71	0.2	8.793	A
C-AB	85	0.00	776	0.110	84	0.2	5.468	A
C-A	245	0.00			245			
A-B	65	0.00			65			
A-C	162	0.00			162			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	85	0.00	480	0.178	85	0.2	9.577	A
C-AB	112	0.00	803	0.139	111	0.3	5.465	A
C-A	283	0.00			283			
A-B	78	0.00			78			
A-C	193	0.00			193			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	105	0.00	452	0.232	104	0.3	10.873	B
C-AB	155	0.00	843	0.184	154	0.4	5.499	A
C-A	329	0.00			329			
A-B	96	0.00			96			
A-C	237	0.00			237			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	105	0.00	451	0.232	105	0.3	10.898	B
C-AB	155	0.00	843	0.184	155	0.4	5.505	A
C-A	328	0.00			328			
A-B	96	0.00			96			
A-C	237	0.00			237			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	85	0.00	480	0.178	86	0.2	9.607	A
C-AB	112	0.00	804	0.139	112	0.3	5.477	A
C-A	283	0.00			283			
A-B	78	0.00			78			
A-C	193	0.00			193			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	72	0.00	500	0.143	72	0.2	8.835	A
C-AB	86	0.00	776	0.110	86	0.2	5.486	A
C-A	245	0.00			245			
A-B	65	0.00			65			
A-C	162	0.00			162			

Q Variation Results for each time segment

07:45 - 08:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.17	0.00	0.00	0.17	0.17			N/A	N/A
C-AB	0.20	0.00	0.00	0.20	0.20			N/A	N/A

08:00 - 08:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.22	0.00	0.00	0.22	0.22			N/A	N/A
C-AB	0.27	0.00	0.00	0.27	0.27			N/A	N/A

08:15 - 08:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.31	0.03	0.27	0.48	0.51			N/A	N/A
C-AB	0.40	0.03	0.28	0.50	0.58			N/A	N/A

08:30 - 08:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.31	0.03	0.32	1.12	1.44			N/A	N/A
C-AB	0.41	0.03	0.34	1.09	1.33			N/A	N/A

08:45 - 09:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.23	0.00	0.00	0.23	0.23			N/A	N/A
C-AB	0.28	0.00	0.00	0.28	0.28			N/A	N/A

09:00 - 09:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.18	0.00	0.00	0.18	0.18			N/A	N/A
C-AB	0.21	0.00	0.00	0.21	0.21			N/A	N/A

Proposed - D2 - 2032 | With Dev | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	Access Junction	T-Junction	Two-way	Two-way	Two-way	4.43	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	52	Stream B-AC	4.43	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2032	With Dev	AM	ONE HOUR	07:45	09:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - R402 (e)		✓	302	100.000
B - R401		✓	181	100.000
C - R402 (w)		✓	531	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - R402 (e)	B - R401	C - R402 (w)
From	A - R402 (e)	0	87	215
	B - R401	74	0	107
	C - R402 (w)	366	165	0

Vehicle Mix

Heavy Vehicle %

		To		
		A - R402 (e)	B - R401	C - R402 (w)
From	A - R402 (e)	0	5	5
	B - R401	5	0	5
	C - R402 (w)	5	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
B-AC	0.40	12.48	0.7	3.1	B
C-AB	0.42	7.71	1.1	5.6	A
C-A					
A-B					
A-C					

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	136	0.00	553	0.246	135	0.3	9.012	A
C-AB	193	0.00	776	0.248	191	0.5	6.455	A
C-A	207	0.00			207			
A-B	65	0.00			65			
A-C	162	0.00			162			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	163	0.00	532	0.306	162	0.5	10.208	B
C-AB	252	0.00	804	0.314	251	0.7	6.856	A
C-A	225	0.00			225			
A-B	78	0.00			78			
A-C	193	0.00			193			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	199	0.00	502	0.397	198	0.7	12.402	B
C-AB	350	0.00	843	0.415	348	1.1	7.659	A
C-A	235	0.00			235			
A-B	96	0.00			96			
A-C	237	0.00			237			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	199	0.00	502	0.397	199	0.7	12.481	B
C-AB	351	0.00	844	0.416	351	1.1	7.712	A
C-A	234	0.00			234			
A-B	96	0.00			96			
A-C	237	0.00			237			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	163	0.00	532	0.306	164	0.5	10.293	B
C-AB	253	0.00	805	0.314	255	0.7	6.915	A
C-A	224	0.00			224			
A-B	78	0.00			78			
A-C	193	0.00			193			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	136	0.00	553	0.247	137	0.3	9.101	A
C-AB	194	0.00	776	0.249	195	0.5	6.520	A
C-A	206	0.00			206			
A-B	65	0.00			65			
A-C	162	0.00			162			

Q Variation Results for each time segment

07:45 - 08:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.34	0.00	0.00	0.34	0.34			N/A	N/A
C-AB	0.48	0.00	0.00	0.48	0.48			N/A	N/A

08:00 - 08:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.46	0.00	0.00	0.46	0.46			N/A	N/A
C-AB	0.69	0.58	1.05	1.47	1.52			N/A	N/A

08:15 - 08:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.68	0.03	0.27	0.68	0.68			N/A	N/A
C-AB	1.11	0.03	0.28	1.11	1.11			N/A	N/A

08:30 - 08:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.68	0.03	0.31	1.33	3.09			N/A	N/A
C-AB	1.13	0.03	0.35	2.52	5.64			N/A	N/A

08:45 - 09:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.47	0.04	0.36	1.19	1.38			N/A	N/A
C-AB	0.72	0.58	1.05	1.47	1.52			N/A	N/A

09:00 - 09:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.35	0.03	0.27	0.49	0.51			N/A	N/A
C-AB	0.50	0.00	0.00	0.50	0.50			N/A	N/A

Proposed - D3 - 2032 | No Dev | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	Access Junction	T-Junction	Two-way	Two-way	Two-way	1.89	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	90	Stream B-AC	1.89	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D3	2032	No Dev	PM	ONE HOUR	16:45	18:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - R402 (e)		✓	413	100.000
B - R401		✓	114	100.000
C - R402 (w)		✓	217	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - R402 (e)	B - R401	C - R402 (w)
From	A - R402 (e)	0	121	292
	B - R401	95	0	19
	C - R402 (w)	200	17	0

Vehicle Mix

Heavy Vehicle %

		To		
		A - R402 (e)	B - R401	C - R402 (w)
From	A - R402 (e)	0	5	5
	B - R401	5	0	5
	C - R402 (w)	5	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
B-AC	0.27	11.16	0.4	1.5	B
C-AB	0.04	5.75	0.1	0.5	A
C-A					
A-B					
A-C					

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	86	0.00	506	0.170	85	0.2	8.966	A
C-AB	16	0.00	674	0.024	16	0.0	5.749	A
C-A	147	0.00			147			
A-B	91	0.00			91			
A-C	220	0.00			220			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	102	0.00	488	0.210	102	0.3	9.786	A
C-AB	21	0.00	681	0.031	21	0.0	5.723	A
C-A	174	0.00			174			
A-B	109	0.00			109			
A-C	263	0.00			263			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	126	0.00	464	0.270	125	0.4	11.135	B
C-AB	28	0.00	692	0.040	27	0.1	5.688	A
C-A	211	0.00			211			
A-B	133	0.00			133			
A-C	321	0.00			321			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	126	0.00	464	0.270	126	0.4	11.164	B
C-AB	28	0.00	692	0.040	28	0.1	5.689	A
C-A	211	0.00			211			
A-B	133	0.00			133			
A-C	321	0.00			321			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	102	0.00	488	0.210	103	0.3	9.821	A
C-AB	21	0.00	681	0.031	21	0.0	5.725	A
C-A	174	0.00			174			
A-B	109	0.00			109			
A-C	263	0.00			263			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	86	0.00	506	0.170	86	0.2	9.015	A
C-AB	17	0.00	674	0.025	17	0.0	5.751	A
C-A	147	0.00			147			
A-B	91	0.00			91			
A-C	220	0.00			220			

Q Variation Results for each time segment

16:45 - 17:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.21	0.00	0.00	0.21	0.21			N/A	N/A
C-AB	0.03	0.00	0.00	0.03	0.03			N/A	N/A

17:00 - 17:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.28	0.00	0.00	0.28	0.28			N/A	N/A
C-AB	0.04	0.03	0.26	0.48	0.50			N/A	N/A

17:15 - 17:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.38	0.03	0.27	0.48	0.51			N/A	N/A
C-AB	0.06	0.03	0.27	0.48	0.50			N/A	N/A

17:30 - 17:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.39	0.03	0.33	1.30	1.45			N/A	N/A
C-AB	0.06	0.00	0.00	0.06	0.06			N/A	N/A

17:45 - 18:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.28	0.00	0.00	0.28	0.28			N/A	N/A
C-AB	0.04	0.00	0.00	0.04	0.04			N/A	N/A

18:00 - 18:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.22	0.00	0.00	0.22	0.22			N/A	N/A
C-AB	0.03	0.00	0.00	0.03	0.03			N/A	N/A

Proposed - D4 - 2032 | With Dev | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	Access Junction	T-Junction	Two-way	Two-way	Two-way	5.67	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	27	Stream B-AC	5.67	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D4	2032	With Dev	PM	ONE HOUR	16:45	18:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - R402 (e)		✓	413	100.000
B - R401		✓	273	100.000
C - R402 (w)		✓	303	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - R402 (e)	B - R401	C - R402 (w)
From	A - R402 (e)	0	121	292
	B - R401	95	0	178
	C - R402 (w)	200	103	0

Vehicle Mix

Heavy Vehicle %

		To		
		A - R402 (e)	B - R401	C - R402 (w)
From	A - R402 (e)	0	5	5
	B - R401	5	0	5
	C - R402 (w)	5	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
B-AC	0.57	16.79	1.4	4.5	C
C-AB	0.24	7.21	0.5	1.5	A
C-A					
A-B					
A-C					

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	206	0.00	570	0.361	203	0.6	10.250	B
C-AB	100	0.00	674	0.148	99	0.2	6.569	A
C-A	128	0.00			128			
A-B	91	0.00			91			
A-C	220	0.00			220			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	245	0.00	551	0.445	244	0.8	12.279	B
C-AB	126	0.00	681	0.185	126	0.3	6.807	A
C-A	146	0.00			146			
A-B	109	0.00			109			
A-C	263	0.00			263			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	301	0.00	525	0.572	298	1.3	16.497	C
C-AB	167	0.00	692	0.241	166	0.4	7.193	A
C-A	167	0.00			167			
A-B	133	0.00			133			
A-C	321	0.00			321			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	301	0.00	525	0.572	300	1.4	16.788	C
C-AB	167	0.00	692	0.241	167	0.5	7.208	A
C-A	167	0.00			167			
A-B	133	0.00			133			
A-C	321	0.00			321			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	245	0.00	551	0.445	247	0.9	12.530	B
C-AB	126	0.00	682	0.185	127	0.3	6.830	A
C-A	146	0.00			146			
A-B	109	0.00			109			
A-C	263	0.00			263			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	206	0.00	570	0.361	207	0.6	10.443	B
C-AB	100	0.00	674	0.149	100	0.2	6.597	A
C-A	128	0.00			128			
A-B	91	0.00			91			
A-C	220	0.00			220			

Q Variation Results for each time segment

16:45 - 17:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.58	0.58	1.05	1.47	1.52			N/A	N/A
C-AB	0.23	0.00	0.00	0.23	0.23			N/A	N/A

17:00 - 17:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.82	0.20	0.98	1.47	1.53			N/A	N/A
C-AB	0.31	0.00	0.00	0.31	0.31			N/A	N/A

17:15 - 17:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.35	0.03	0.29	1.35	3.62			N/A	N/A
C-AB	0.45	0.03	0.27	0.49	0.52			N/A	N/A

17:30 - 17:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.38	0.03	0.29	1.38	4.53			N/A	N/A
C-AB	0.45	0.04	0.38	1.34	1.54			N/A	N/A

17:45 - 18:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.86	0.07	0.78	1.40	1.87			N/A	N/A
C-AB	0.32	0.00	0.00	0.32	0.32			N/A	N/A

18:00 - 18:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.60	0.05	0.46	1.40	1.40			N/A	N/A
C-AB	0.24	0.00	0.00	0.24	0.24			N/A	N/A

Existing junction C, R402 / R401 mini-roundabout, Edenderry, ARCADY11 output

Junctions 11

ARCADY 11 - Roundabout Module

Version: 11.1.1.2424
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Filename: External Junction C.j11
Path: C:\AL Files\AL traffic Jobs Live\8571 - Ballydermot 2025\Picady
Report generation date: 12/10/2026 16:02:04

»Proposed - D1 - 2032 | No Dev | AM
»Proposed - D2 - 2032 | With Dev | AM
»Proposed - D3 - 2032 | No Dev | PM
»Proposed - D4 - 2032 | With Dev | PM

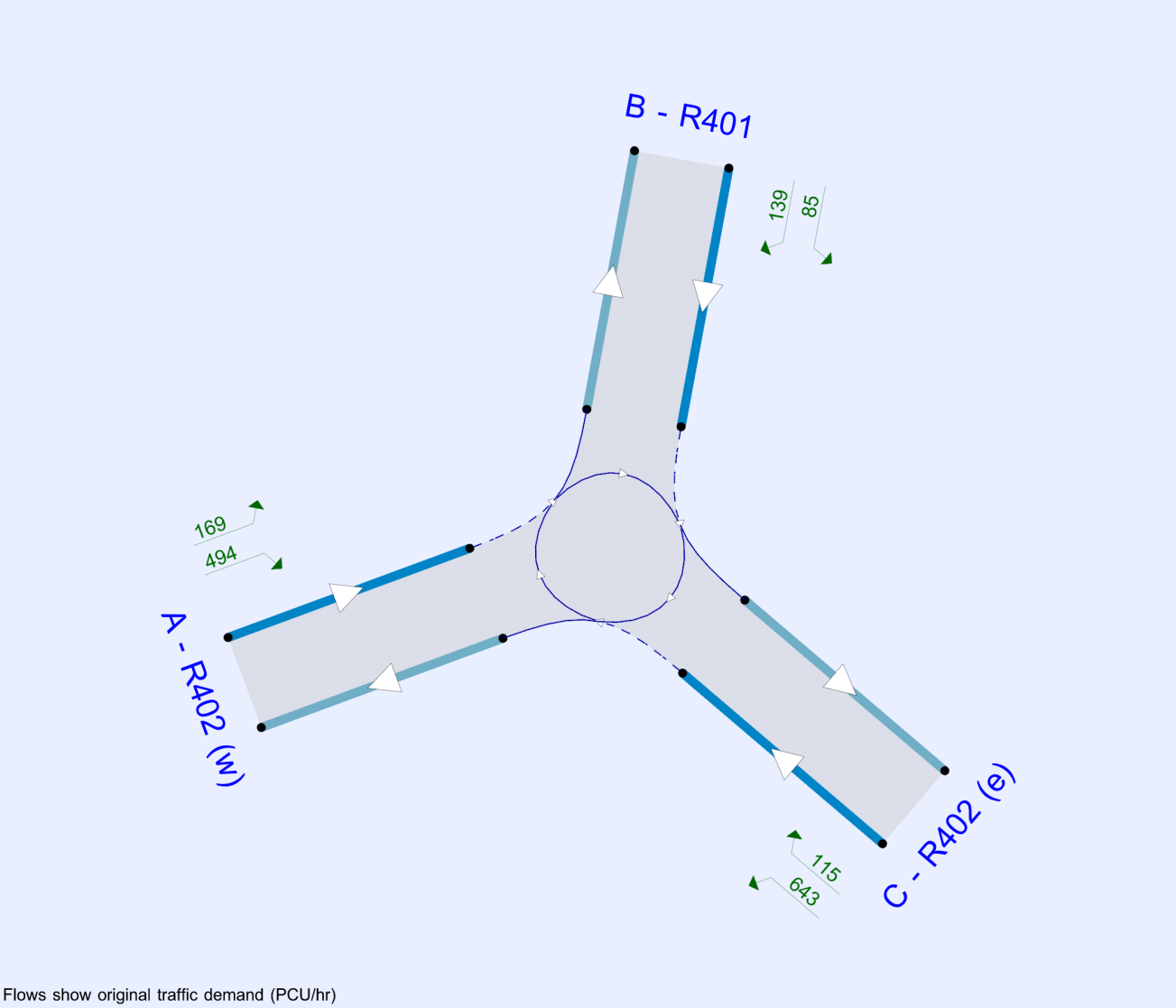
File summary

File Description

Title	External junction C, R402 / R401 mini-roundabout, Edenderry
Location	Ballydermot Wind Farm
Site number	
Date	30/06/2026
Version	
Status	(new file)
Identifier	
Client	Bord na Mona
Jobnumber	8571
Enumerator	Alan Lipscombe
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Av. delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin



Flows show original traffic demand (PCU/hr)

The junction diagram reflects the last run of Junctions.

Analysis Options

Mini-roundabout model	Calculate Q Percentiles	Calculate residual capacity	Residual capacity criteria type	RFC Threshold	Av. Delay threshold (s)	Q threshold (PCU)
JUNCTIONS 9	✓	✓	Delay	0.85	36.00	20.00

Demand Set Summary

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2032	No Dev	AM	ONE HOUR	07:45	09:15	15
D2	2032	With Dev	AM	ONE HOUR	07:45	09:15	15
D3	2032	No Dev	PM	ONE HOUR	16:45	18:15	15
D4	2032	With Dev	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Name	Network flow scaling factor (%)
A1	Proposed	100.000

Proposed - D1 - 2032 | No Dev | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout	1 - Access Junction	Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms A and C have 82% of the total flow for the roundabout for one or more time segments]
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm order	Junction Delay (s)	Junction LOS
1	Access Junction	Mini-roundabout	A, B, C	14.32	B

Junction Network

Driving side	Lighting	Road surface	In London	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	Normal/unknown		19	A - R402 (w)	14.32	B

Arms

Arms

Arm	Name	Description
A	R402 (w)	
B	R401	
C	R402 (e)	

Mini Roundabout Geometry

Arm	Approach road half-width (m)	Minimum approach road half-width (m)	Entry width (m)	Effective flare length (m)	Distance to next arm (m)	Entry corner kerb line distance (m)	Gradient over 50m (%)	Kerbed central island
A - R402 (w)	3.00	3.00	3.50	6.0	9.00	6.00	0.0	
B - R401	3.00	3.00	3.50	6.0	12.00	8.00	0.0	
C - R402 (e)	3.00	3.00	3.50	6.0	15.00	12.00	0.0	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
A - R402 (w)	0.605	902
B - R401	0.606	835
C - R402 (e)	0.611	979

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

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2032	No Dev	AM	ONE HOUR	07:45	09:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - R402 (w)		✓	531	100.000
B - R401		✓	238	100.000
C - R402 (e)		✓	575	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - R402 (w)	B - R401	C - R402 (e)
From	A - R402 (w)	0	105	426
	B - R401	118	0	120
	C - R402 (e)	438	137	0

Vehicle Mix

Heavy Vehicle %

		To		
		A - R402 (w)	B - R401	C - R402 (e)
From	A - R402 (w)	0	5	0
	B - R401	5	0	0
	C - R402 (e)	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
A - R402 (w)	0.72	15.97	2.5	11.2	C
B - R401	0.48	12.76	0.9	3.7	B
C - R402 (e)	0.70	13.45	2.3	8.8	B

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (w)	400	102	840	0.476	396	0.9	8.119	A
B - R401	179	318	642	0.279	178	0.4	7.909	A
C - R402 (e)	433	88	926	0.468	429	0.9	7.209	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (w)	477	123	828	0.577	476	1.3	10.263	B
B - R401	214	382	604	0.354	213	0.6	9.427	A
C - R402 (e)	517	106	915	0.565	515	1.3	8.974	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (w)	585	150	811	0.721	580	2.5	15.413	C
B - R401	262	465	553	0.474	261	0.9	12.555	B
C - R402 (e)	633	129	900	0.703	629	2.3	13.076	B

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (w)	585	151	811	0.721	584	2.5	15.975	C
B - R401	262	469	551	0.476	262	0.9	12.759	B
C - R402 (e)	633	130	900	0.703	633	2.3	13.446	B

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (w)	477	124	827	0.577	482	1.4	10.658	B
B - R401	214	387	601	0.356	215	0.6	9.601	A
C - R402 (e)	517	107	914	0.565	521	1.3	9.242	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (w)	400	104	839	0.476	402	0.9	8.337	A
B - R401	179	322	640	0.280	180	0.4	8.030	A
C - R402 (e)	433	89	925	0.468	435	0.9	7.368	A

Q Variation Results for each time segment

07:45 - 08:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (w)	0.90	0.56	1.01	1.41	1.46			N/A	N/A
B - R401	0.39	0.00	0.00	0.39	0.39			N/A	N/A
C - R402 (e)	0.87	0.55	1.00	1.40	1.45			N/A	N/A

08:00 - 08:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (w)	1.34	0.08	1.04	2.64	3.54			N/A	N/A
B - R401	0.55	0.55	1.02	1.43	1.49			N/A	N/A
C - R402 (e)	1.27	0.08	1.00	2.49	3.32			N/A	N/A

08:15 - 08:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (w)	2.46	0.03	0.30	2.50	11.19			N/A	N/A
B - R401	0.90	0.03	0.27	0.90	0.90			N/A	N/A
C - R402 (e)	2.26	0.03	0.29	2.26	8.84			N/A	N/A

08:30 - 08:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (w)	2.53	0.03	0.28	2.53	6.80			N/A	N/A
B - R401	0.92	0.03	0.29	1.09	3.68			N/A	N/A
C - R402 (e)	2.31	0.03	0.28	2.31	4.65			N/A	N/A

08:45 - 09:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (w)	1.41	0.06	0.70	3.35	4.92			N/A	N/A
B - R401	0.58	0.06	0.66	1.36	1.45			N/A	N/A
C - R402 (e)	1.33	0.06	0.82	2.93	4.21			N/A	N/A

09:00 - 09:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (w)	0.93	0.04	0.41	2.23	3.68			N/A	N/A
B - R401	0.40	0.03	0.34	1.11	1.32			N/A	N/A
C - R402 (e)	0.89	0.04	0.43	2.00	3.19			N/A	N/A

Proposed - D2 - 2032 | With Dev | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm order	Junction Delay (s)	Junction LOS
1	Access Junction	Mini-roundabout	A, B, C	26.73	D

Junction Network

Driving side	Lighting	Road surface	In London	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	Normal/unknown		3	C - R402 (e)	26.73	D

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2032	With Dev	AM	ONE HOUR	07:45	09:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - R402 (w)		✓	617	100.000
B - R401		✓	311	100.000
C - R402 (e)		✓	661	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - R402 (w)	B - R401	C - R402 (e)
From	A - R402 (w)	0	105	512
	B - R401	191	0	120
	C - R402 (e)	524	137	0

Vehicle Mix

Heavy Vehicle %

		To		
		A - R402 (w)	B - R401	C - R402 (e)
From	A - R402 (w)	0	5	0
	B - R401	5	0	0
	C - R402 (e)	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
A - R402 (w)	0.84	26.67	4.8	24.0	D
B - R401	0.69	24.21	2.2	10.5	C
C - R402 (e)	0.86	27.97	5.3	27.9	D

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (w)	465	102	840	0.553	460	1.2	9.418	A
B - R401	234	381	604	0.388	232	0.6	9.897	A
C - R402 (e)	498	142	892	0.558	493	1.2	8.899	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (w)	555	122	828	0.670	552	2.0	12.988	B
B - R401	280	458	558	0.501	278	1.0	13.198	B
C - R402 (e)	594	171	875	0.679	591	2.0	12.531	B

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (w)	679	148	812	0.836	669	4.5	23.838	C
B - R401	342	555	498	0.687	338	2.1	22.525	C
C - R402 (e)	728	208	853	0.854	716	4.9	24.500	C

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (w)	679	151	811	0.838	678	4.8	26.669	D
B - R401	342	563	494	0.693	342	2.2	24.209	C
C - R402 (e)	728	210	851	0.855	726	5.3	27.971	D

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (w)	555	126	826	0.671	565	2.1	14.428	B
B - R401	280	469	551	0.508	284	1.1	14.129	B
C - R402 (e)	594	174	873	0.681	607	2.2	14.108	B

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (w)	465	104	839	0.553	468	1.3	9.864	A
B - R401	234	388	600	0.390	236	0.7	10.241	B
C - R402 (e)	498	145	891	0.559	501	1.3	9.329	A

Q Variation Results for each time segment

07:45 - 08:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (w)	1.22	0.55	1.01	1.41	1.46			N/A	N/A
B - R401	0.64	0.57	1.03	1.44	1.49			N/A	N/A
C - R402 (e)	1.23	0.55	1.00	1.40	1.45			N/A	N/A

08:00 - 08:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (w)	1.96	0.07	1.10	4.68	6.68			N/A	N/A
B - R401	1.01	0.10	0.97	1.58	1.92			N/A	N/A
C - R402 (e)	2.03	0.07	1.04	4.96	7.23			N/A	N/A

08:15 - 08:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (w)	4.46	0.04	0.39	11.54	23.99			N/A	N/A
B - R401	2.10	0.03	0.32	3.06	10.47			N/A	N/A
C - R402 (e)	4.94	0.04	0.41	13.34	26.34			N/A	N/A

08:30 - 08:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (w)	4.78	0.03	0.32	6.80	23.78			N/A	N/A
B - R401	2.22	0.03	0.30	2.22	9.58			N/A	N/A
C - R402 (e)	5.35	0.03	0.33	9.04	27.88			N/A	N/A

08:45 - 09:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (w)	2.15	0.04	0.45	5.87	9.97			N/A	N/A
B - R401	1.09	0.05	0.58	2.42	3.54			N/A	N/A
C - R402 (e)	2.23	0.04	0.43	6.08	10.50			N/A	N/A

09:00 - 09:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (w)	1.28	0.03	0.34	2.99	6.47			N/A	N/A
B - R401	0.67	0.04	0.38	1.53	2.56			N/A	N/A
C - R402 (e)	1.29	0.03	0.33	2.89	6.60			N/A	N/A

Proposed - D3 - 2032 | No Dev | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout	1 - Access Junction	Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms A and C have 84% of the total flow for the roundabout for one or more time segments]
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm order	Junction Delay (s)	Junction LOS
1	Access Junction	Mini-roundabout	A, B, C	18.22	C

Junction Network

Driving side	Lighting	Road surface	In London	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	Normal/unknown		6	C - R402 (e)	18.22	C

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D3	2032	No Dev	PM	ONE HOUR	16:45	18:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - R402 (w)		✓	504	100.000
B - R401		✓	224	100.000
C - R402 (e)		✓	672	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - R402 (w)	B - R401	C - R402 (e)
From	A - R402 (w)	0	96	408
	B - R401	139	0	85
	C - R402 (e)	557	115	0

Vehicle Mix

Heavy Vehicle %

		To		
		A - R402 (w)	B - R401	C - R402 (e)
From	A - R402 (w)	0	5	0
	B - R401	5	0	0
	C - R402 (e)	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
A - R402 (w)	0.67	13.39	2.0	6.9	B
B - R401	0.44	11.73	0.8	3.4	B
C - R402 (e)	0.84	24.02	4.7	23.9	C

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (w)	379	86	850	0.446	376	0.8	7.614	A
B - R401	169	305	650	0.259	167	0.4	7.656	A
C - R402 (e)	506	104	916	0.552	501	1.2	8.582	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (w)	453	103	840	0.539	452	1.2	9.322	A
B - R401	201	366	613	0.328	201	0.5	8.978	A
C - R402 (e)	604	125	903	0.669	601	1.9	11.799	B

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (w)	555	125	827	0.671	552	2.0	13.054	B
B - R401	247	447	564	0.437	245	0.8	11.589	B
C - R402 (e)	740	152	886	0.835	730	4.4	21.733	C

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (w)	555	126	826	0.672	555	2.0	13.387	B
B - R401	247	449	563	0.438	247	0.8	11.725	B
C - R402 (e)	740	153	886	0.835	739	4.7	24.020	C

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (w)	453	105	839	0.540	456	1.2	9.586	A
B - R401	201	369	611	0.330	202	0.5	9.102	A
C - R402 (e)	604	126	903	0.669	615	2.1	12.914	B

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (w)	379	87	849	0.447	381	0.8	7.782	A
B - R401	169	308	648	0.260	169	0.4	7.758	A
C - R402 (e)	506	105	915	0.553	509	1.3	8.940	A

Q Variation Results for each time segment

16:45 - 17:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (w)	0.80	0.56	1.01	1.41	1.46			N/A	N/A
B - R401	0.36	0.00	0.00	0.36	0.36			N/A	N/A
C - R402 (e)	1.21	0.55	1.00	1.40	1.45			N/A	N/A

17:00 - 17:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (w)	1.16	0.09	1.01	1.95	2.63			N/A	N/A
B - R401	0.50	0.00	0.00	0.50	0.50			N/A	N/A
C - R402 (e)	1.95	0.07	1.02	4.73	6.82			N/A	N/A

17:15 - 17:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (w)	1.98	0.03	0.29	1.98	6.87			N/A	N/A
B - R401	0.78	0.03	0.27	0.78	0.78			N/A	N/A
C - R402 (e)	4.43	0.04	0.38	10.98	23.90			N/A	N/A

17:30 - 17:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (w)	2.02	0.03	0.28	2.02	4.00			N/A	N/A
B - R401	0.79	0.03	0.30	1.20	3.40			N/A	N/A
C - R402 (e)	4.71	0.03	0.31	5.69	22.44			N/A	N/A

17:45 - 18:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (w)	1.21	0.07	0.86	2.52	3.49			N/A	N/A
B - R401	0.51	0.05	0.48	1.32	1.43			N/A	N/A
C - R402 (e)	2.10	0.04	0.45	5.74	9.68			N/A	N/A

18:00 - 18:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (w)	0.83	0.05	0.45	1.79	2.69			N/A	N/A
B - R401	0.37	0.03	0.29	0.56	1.05			N/A	N/A
C - R402 (e)	1.26	0.03	0.34	2.97	6.36			N/A	N/A

Proposed - D4 - 2032 | With Dev | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout	1 - Access Junction	Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms A and C have 86% of the total flow for the roundabout for one or more time segments]
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm order	Junction Delay (s)	Junction LOS
1	Access Junction	Mini-roundabout	A, B, C	39.60	E

Junction Network

Driving side	Lighting	Road surface	In London	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	Normal/unknown		-5	C - R402 (e)	39.60	E

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D4	2032	With Dev	PM	ONE HOUR	16:45	18:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - R402 (w)		✓	663	100.000
B - R401		✓	224	100.000
C - R402 (e)		✓	758	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - R402 (w)	B - R401	C - R402 (e)
From	A - R402 (w)	0	169	494
	B - R401	139	0	85
	C - R402 (e)	643	115	0

Vehicle Mix

Heavy Vehicle %

		To		
		A - R402 (w)	B - R401	C - R402 (e)
From	A - R402 (w)	0	5	0
	B - R401	5	0	0
	C - R402 (e)	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
A - R402 (w)	0.88	34.86	6.6	36.4	D
B - R401	0.49	14.25	1.0	4.0	B
C - R402 (e)	0.94	51.23	11.1	55.3	F

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (w)	499	86	850	0.587	494	1.4	10.063	B
B - R401	169	368	612	0.276	167	0.4	8.307	A
C - R402 (e)	571	104	916	0.623	564	1.6	10.061	B

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (w)	596	103	840	0.710	592	2.3	14.474	B
B - R401	201	441	568	0.355	201	0.6	10.091	B
C - R402 (e)	681	125	903	0.754	676	2.9	15.507	C

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (w)	730	123	828	0.882	716	6.0	29.216	D
B - R401	247	533	512	0.482	245	0.9	13.826	B
C - R402 (e)	835	152	886	0.941	809	9.2	37.789	E

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (w)	730	125	826	0.884	727	6.6	34.864	D
B - R401	247	542	507	0.487	247	1.0	14.250	B
C - R402 (e)	835	153	886	0.942	827	11.1	51.229	F

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (w)	596	108	837	0.712	612	2.6	17.222	C
B - R401	201	456	559	0.360	203	0.6	10.467	B
C - R402 (e)	681	126	902	0.755	713	3.3	21.534	C

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (w)	499	88	849	0.588	504	1.5	10.690	B
B - R401	169	375	607	0.278	169	0.4	8.483	A
C - R402 (e)	571	105	915	0.624	577	1.7	10.844	B

Q Variation Results for each time segment

16:45 - 17:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (w)	1.40	0.58	1.25	1.71	1.87			N/A	N/A
B - R401	0.39	0.00	0.00	0.39	0.39			N/A	N/A
C - R402 (e)	1.60	0.60	1.07	1.92	2.20			N/A	N/A

17:00 - 17:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (w)	2.35	0.07	1.18	5.82	8.41			N/A	N/A
B - R401	0.56	0.56	1.03	1.44	1.49			N/A	N/A
C - R402 (e)	2.88	0.07	1.24	7.47	10.97			N/A	N/A

17:15 - 17:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (w)	5.95	0.05	0.50	17.07	30.10			N/A	N/A
B - R401	0.93	0.03	0.27	0.93	0.93			N/A	N/A
C - R402 (e)	9.24	0.09	2.40	25.97	39.15			N/A	N/A

17:30 - 17:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (w)	6.63	0.04	0.37	15.31	36.36			N/A	N/A
B - R401	0.96	0.03	0.30	1.23	4.00			N/A	N/A
C - R402 (e)	11.13	0.06	1.25	32.54	55.25			N/A	N/A

17:45 - 18:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (w)	2.65	0.04	0.43	7.30	12.95			N/A	N/A
B - R401	0.59	0.06	0.67	1.37	1.46			N/A	N/A
C - R402 (e)	3.31	0.04	0.42	9.09	16.89			N/A	N/A

18:00 - 18:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (w)	1.48	0.03	0.33	3.16	7.68			N/A	N/A
B - R401	0.40	0.03	0.34	1.13	1.34			N/A	N/A
C - R402 (e)	1.71	0.03	0.31	2.94	8.77			N/A	N/A

Existing junction D, R402 / R403 junction, Carbury, PICADY11 output

Junctions 11

ARCADY 11 - Roundabout Module

Version: 11.1.1.2424
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Filename: External Junction D.j11
Path: C:\AL Files\AL traffic Jobs Live\8571 - Ballydermot 2025\Picady
Report generation date: 11/10/2026 16:14:08

»Proposed - D1 - 2032 | No Dev | AM
»Proposed - D2 - 2032 | With Dev | AM
»Proposed - D3 - 2032 | No Dev | PM
»Proposed - D4 - 2032 | With Dev | PM

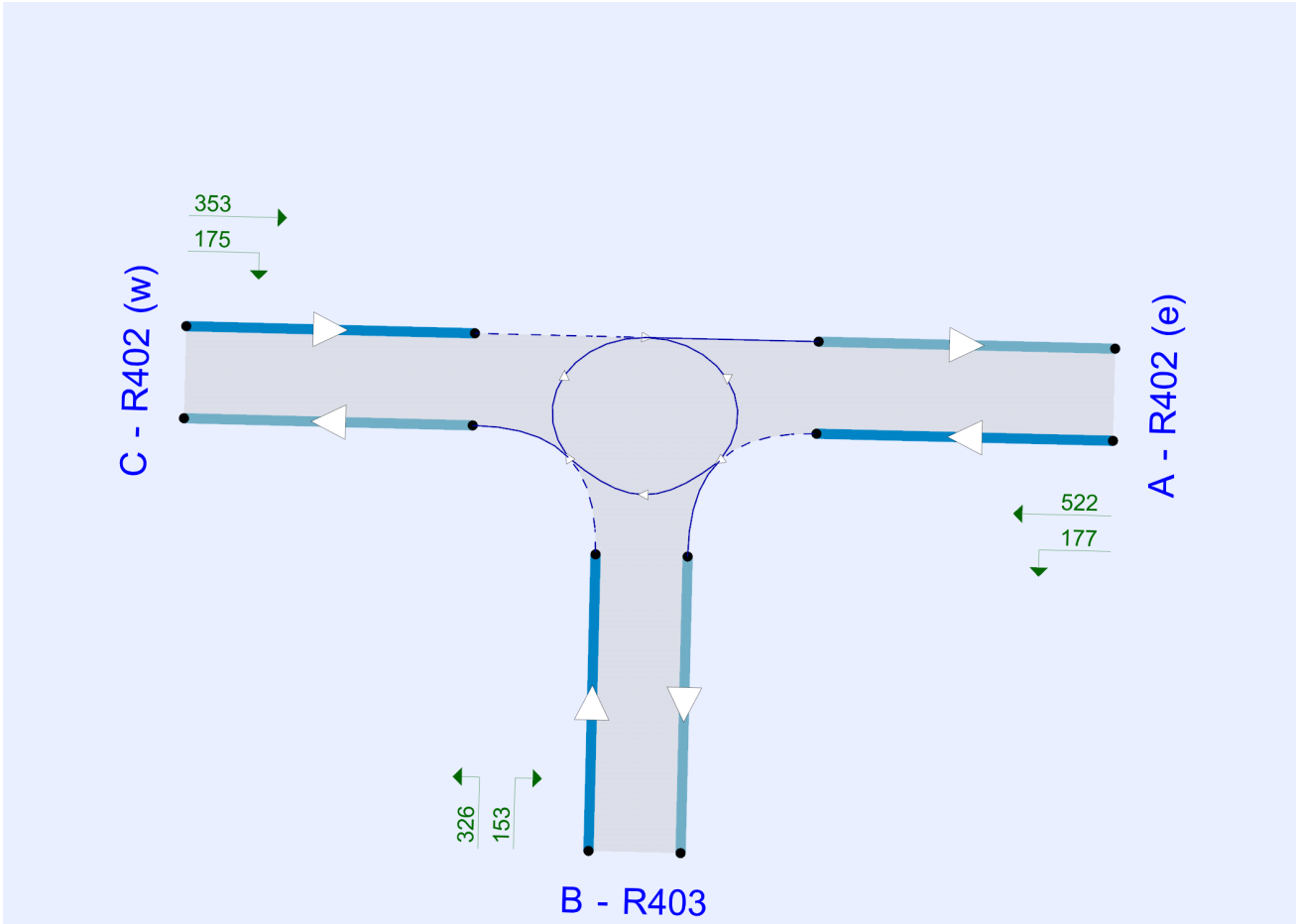
File summary

File Description

Title	External junction D, R402 / R403 roundabout, Carbury
Location	Ballydermot Wind Farm
Site number	
Date	30/06/2026
Version	
Status	(new file)
Identifier	
Client	Bord na Mona
Jobnumber	8571
Enumerator	Alan Lipscombe
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Av. delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin



Flows show original traffic demand (PCU/hr)

The junction diagram reflects the last run of Junctions.

Analysis Options

Calculate Q Percentiles	Calculate residual capacity	Residual capacity criteria type	RFC Threshold	Av. Delay threshold (s)	Q threshold (PCU)
✓	✓	Delay	0.85	36.00	20.00

Demand Set Summary

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2032	No Dev	AM	ONE HOUR	07:45	09:15	15
D2	2032	With Dev	AM	ONE HOUR	07:45	09:15	15
D3	2032	No Dev	PM	ONE HOUR	16:45	18:15	15
D4	2032	With Dev	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Name	Network flow scaling factor (%)
A1	Proposed	100.000

Proposed - D1 - 2032 | No Dev | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm order	Junction Delay (s)	Junction LOS
1	Access Junction	Standard Roundabout	A, B, C	4.82	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	95	C - R402 (w)	4.82	A

Arms

Arms

Arm	Name	Description	No give-way line
A	R402 (e)		
B	R403		
C	R402 (w)		

Roundabout Geometry

Arm	V (m)	E (m)	l' (m)	R (m)	D (m)	PHI (deg)	Entry only	Exit only
A - R402 (e)	3.00	5.20	10.0	17.0	40.0	15.0		
B - R403	3.00	4.50	10.0	17.0	40.0	20.0		
C - R402 (w)	3.30	5.60	25.0	17.0	40.0	60.0		

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
A - R402 (e)	0.586	1357
B - R403	0.560	1248
C - R402 (w)	0.541	1365

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

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2032	No Dev	AM	ONE HOUR	07:45	09:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - R402 (e)		✓	337	100.000
B - R403		✓	368	100.000
C - R402 (w)		✓	501	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - R402 (e)	B - R403	C - R402 (w)
From	A - R402 (e)	0	140	197
	B - R403	171	0	197
	C - R402 (w)	344	157	0

Vehicle Mix

Heavy Vehicle %

		To		
		A - R402 (e)	B - R403	C - R402 (w)
From	A - R402 (e)	0	5	0
	B - R403	5	0	0
	C - R402 (w)	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
A - R402 (e)	0.30	4.15	0.4	1.7	A
B - R403	0.36	5.10	0.6	2.7	A
C - R402 (w)	0.44	5.06	0.8	2.4	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (e)	254	118	1288	0.197	253	0.2	3.545	A
B - R403	277	148	1165	0.238	276	0.3	4.133	A
C - R402 (w)	377	128	1296	0.291	376	0.4	3.905	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (e)	303	141	1274	0.238	303	0.3	3.781	A
B - R403	331	177	1149	0.288	330	0.4	4.496	A
C - R402 (w)	450	154	1282	0.351	450	0.5	4.324	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (e)	371	173	1255	0.296	371	0.4	4.149	A
B - R403	405	217	1127	0.360	405	0.6	5.094	A
C - R402 (w)	552	188	1263	0.437	551	0.8	5.046	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (e)	371	173	1255	0.296	371	0.4	4.153	A
B - R403	405	217	1126	0.360	405	0.6	5.103	A
C - R402 (w)	552	188	1263	0.437	552	0.8	5.059	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (e)	303	141	1274	0.238	303	0.3	3.788	A
B - R403	331	177	1149	0.288	331	0.4	4.510	A
C - R402 (w)	450	154	1282	0.351	451	0.5	4.340	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (e)	254	118	1287	0.197	254	0.3	3.557	A
B - R403	277	148	1165	0.238	277	0.3	4.150	A
C - R402 (w)	377	129	1295	0.291	378	0.4	3.927	A

Q Variation Results for each time segment

07:45 - 08:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (e)	0.25	0.00	0.00	0.25	0.25			N/A	N/A
B - R403	0.32	0.00	0.00	0.32	0.32			N/A	N/A
C - R402 (w)	0.41	0.00	0.00	0.41	0.41			N/A	N/A

08:00 - 08:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (e)	0.32	0.00	0.00	0.32	0.32			N/A	N/A
B - R403	0.41	0.00	0.00	0.41	0.41			N/A	N/A
C - R402 (w)	0.54	0.54	1.00	1.40	1.45			N/A	N/A

08:15 - 08:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (e)	0.43	0.03	0.26	0.46	0.49			N/A	N/A
B - R403	0.57	0.03	0.26	0.57	0.57			N/A	N/A
C - R402 (w)	0.77	0.03	0.25	0.77	0.77			N/A	N/A

08:30 - 08:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (e)	0.43	0.03	0.32	1.36	1.70			N/A	N/A
B - R403	0.57	0.03	0.30	1.30	2.65			N/A	N/A
C - R402 (w)	0.77	0.03	0.28	0.77	2.39			N/A	N/A

08:45 - 09:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (e)	0.32	0.00	0.00	0.32	0.32			N/A	N/A
B - R403	0.42	0.00	0.00	0.42	0.42			N/A	N/A
C - R402 (w)	0.55	0.55	1.00	1.40	1.45			N/A	N/A

09:00 - 09:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (e)	0.25	0.00	0.00	0.25	0.25			N/A	N/A
B - R403	0.32	0.00	0.00	0.32	0.32			N/A	N/A
C - R402 (w)	0.41	0.00	0.00	0.41	0.41			N/A	N/A

Proposed - D2 - 2032 | With Dev | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm order	Junction Delay (s)	Junction LOS
1	Access Junction	Standard Roundabout	A, B, C	5.62	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	71	C - R402 (w)	5.62	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2032	With Dev	AM	ONE HOUR	07:45	09:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - R402 (e)		✓	496	100.000
B - R403		✓	368	100.000
C - R402 (w)		✓	587	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - R402 (e)	B - R403	C - R402 (w)
From	A - R402 (e)	0	140	356
	B - R403	171	0	197
	C - R402 (w)	430	157	0

Vehicle Mix

Heavy Vehicle %

		To		
		A - R402 (e)	B - R403	C - R402 (w)
From	A - R402 (e)	0	5	0
	B - R403	5	0	0
	C - R402 (w)	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
A - R402 (e)	0.44	5.14	0.8	2.5	A
B - R403	0.39	5.91	0.7	2.8	A
C - R402 (w)	0.51	5.84	1.0	1.5	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (e)	373	118	1288	0.290	372	0.4	3.977	A
B - R403	277	267	1099	0.252	276	0.3	4.467	A
C - R402 (w)	442	128	1296	0.341	440	0.5	4.196	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (e)	446	141	1274	0.350	445	0.5	4.401	A
B - R403	331	320	1069	0.309	330	0.5	4.981	A
C - R402 (w)	528	154	1282	0.412	527	0.7	4.765	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (e)	546	172	1255	0.435	545	0.8	5.131	A
B - R403	405	391	1029	0.394	404	0.7	5.888	A
C - R402 (w)	646	188	1263	0.512	645	1.0	5.809	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (e)	546	173	1255	0.435	546	0.8	5.145	A
B - R403	405	392	1029	0.394	405	0.7	5.905	A
C - R402 (w)	646	188	1263	0.512	646	1.0	5.836	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (e)	446	141	1274	0.350	447	0.6	4.417	A
B - R403	331	321	1068	0.310	332	0.5	5.003	A
C - R402 (w)	528	154	1282	0.412	529	0.7	4.794	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (e)	373	118	1287	0.290	374	0.4	3.997	A
B - R403	277	268	1098	0.252	278	0.3	4.492	A
C - R402 (w)	442	129	1295	0.341	443	0.5	4.226	A

Q Variation Results for each time segment

07:45 - 08:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (e)	0.41	0.00	0.00	0.41	0.41			N/A	N/A
B - R403	0.34	0.00	0.00	0.34	0.34			N/A	N/A
C - R402 (w)	0.51	0.51	1.00	1.40	1.45			N/A	N/A

08:00 - 08:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (e)	0.54	0.54	1.01	1.42	1.47			N/A	N/A
B - R403	0.45	0.00	0.00	0.45	0.45			N/A	N/A
C - R402 (w)	0.69	0.11	0.86	1.38	1.44			N/A	N/A

08:15 - 08:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (e)	0.77	0.03	0.26	0.77	0.77			N/A	N/A
B - R403	0.66	0.03	0.26	0.66	0.66			N/A	N/A
C - R402 (w)	1.03	0.03	0.26	1.03	1.03			N/A	N/A

08:30 - 08:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (e)	0.78	0.03	0.28	0.78	2.46			N/A	N/A
B - R403	0.66	0.03	0.29	1.11	2.83			N/A	N/A
C - R402 (w)	1.04	0.03	0.27	1.04	1.43			N/A	N/A

08:45 - 09:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (e)	0.55	0.55	1.01	1.42	1.47			N/A	N/A
B - R403	0.46	0.00	0.00	0.46	0.46			N/A	N/A
C - R402 (w)	0.71	0.25	0.95	1.39	1.44			N/A	N/A

09:00 - 09:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (e)	0.42	0.00	0.00	0.42	0.42			N/A	N/A
B - R403	0.35	0.00	0.00	0.35	0.35			N/A	N/A
C - R402 (w)	0.52	0.05	0.54	1.31	1.40			N/A	N/A

Proposed - D3 - 2032 | No Dev | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm order	Junction Delay (s)	Junction LOS
1	Access Junction	Standard Roundabout	A, B, C	5.95	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	61	A - R402 (e)	5.95	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D3	2032	No Dev	PM	ONE HOUR	16:45	18:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - R402 (e)		✓	613	100.000
B - R403		✓	406	100.000
C - R402 (w)		✓	369	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - R402 (e)	B - R403	C - R402 (w)
From	A - R402 (e)	0	177	436
	B - R403	153	0	253
	C - R402 (w)	194	175	0

Vehicle Mix

Heavy Vehicle %

		To		
		A - R402 (e)	B - R403	C - R402 (w)
From	A - R402 (e)	0	5	0
	B - R403	5	0	0
	C - R402 (w)	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
A - R402 (e)	0.54	6.42	1.2	1.5	A
B - R403	0.46	6.89	0.8	2.8	A
C - R402 (w)	0.32	4.15	0.5	2.0	A

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (e)	461	131	1280	0.361	459	0.6	4.435	A
B - R403	306	327	1065	0.287	304	0.4	4.807	A
C - R402 (w)	278	115	1303	0.213	277	0.3	3.505	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (e)	551	157	1264	0.436	550	0.8	5.104	A
B - R403	365	391	1029	0.355	364	0.6	5.512	A
C - R402 (w)	332	137	1291	0.257	331	0.3	3.753	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (e)	675	192	1244	0.543	673	1.2	6.380	A
B - R403	447	479	980	0.456	446	0.8	6.849	A
C - R402 (w)	406	168	1274	0.319	406	0.5	4.145	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (e)	675	193	1244	0.543	675	1.2	6.417	A
B - R403	447	480	979	0.457	447	0.8	6.886	A
C - R402 (w)	406	168	1274	0.319	406	0.5	4.149	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (e)	551	158	1264	0.436	553	0.8	5.142	A
B - R403	365	393	1028	0.355	366	0.6	5.548	A
C - R402 (w)	332	138	1290	0.257	332	0.3	3.761	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (e)	461	132	1279	0.361	462	0.6	4.474	A
B - R403	306	329	1064	0.287	306	0.4	4.844	A
C - R402 (w)	278	115	1302	0.213	278	0.3	3.514	A

Q Variation Results for each time segment

16:45 - 17:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (e)	0.57	0.56	1.01	1.42	1.47			N/A	N/A
B - R403	0.41	0.00	0.00	0.41	0.41			N/A	N/A
C - R402 (w)	0.27	0.00	0.00	0.27	0.27			N/A	N/A

17:00 - 17:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (e)	0.78	0.11	0.88	1.43	1.50			N/A	N/A
B - R403	0.55	0.55	1.02	1.43	1.48			N/A	N/A
C - R402 (w)	0.34	0.00	0.00	0.34	0.34			N/A	N/A

17:15 - 17:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (e)	1.19	0.03	0.26	1.19	1.19			N/A	N/A
B - R403	0.84	0.03	0.26	0.84	0.84			N/A	N/A
C - R402 (w)	0.47	0.03	0.25	0.47	0.48			N/A	N/A

17:30 - 17:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (e)	1.19	0.03	0.27	1.19	1.21			N/A	N/A
B - R403	0.85	0.03	0.28	0.85	2.77			N/A	N/A
C - R402 (w)	0.47	0.03	0.31	1.37	2.00			N/A	N/A

17:45 - 18:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (e)	0.79	0.20	0.95	1.42	1.47			N/A	N/A
B - R403	0.57	0.56	1.02	1.43	1.48			N/A	N/A
C - R402 (w)	0.35	0.00	0.00	0.35	0.35			N/A	N/A

18:00 - 18:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (e)	0.58	0.06	0.63	1.34	1.43			N/A	N/A
B - R403	0.41	0.03	0.30	0.80	1.16			N/A	N/A
C - R402 (w)	0.27	0.00	0.00	0.27	0.27			N/A	N/A

Proposed - D4 - 2032 | With Dev | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm order	Junction Delay (s)	Junction LOS
1	Access Junction	Standard Roundabout	A, B, C	7.33	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	36	B - R403	7.33	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D4	2032	With Dev	PM	ONE HOUR	16:45	18:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - R402 (e)		✓	699	100.000
B - R403		✓	479	100.000
C - R402 (w)		✓	528	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - R402 (e)	B - R403	C - R402 (w)
From	A - R402 (e)	0	177	522
	B - R403	153	0	326
	C - R402 (w)	353	175	0

Vehicle Mix

Heavy Vehicle %

		To		
		A - R402 (e)	B - R403	C - R402 (w)
From	A - R402 (e)	0	5	0
	B - R403	5	0	0
	C - R402 (w)	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
A - R402 (e)	0.62	7.68	1.6	2.0	A
B - R403	0.57	9.16	1.3	2.5	A
C - R402 (w)	0.46	5.20	0.8	2.1	A

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (e)	526	131	1280	0.411	523	0.7	4.801	A
B - R403	361	391	1029	0.350	358	0.5	5.433	A
C - R402 (w)	398	114	1303	0.305	396	0.4	3.961	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (e)	628	157	1264	0.497	627	1.0	5.707	A
B - R403	431	468	986	0.437	430	0.8	6.563	A
C - R402 (w)	475	137	1291	0.368	474	0.6	4.406	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (e)	770	192	1244	0.619	767	1.6	7.604	A
B - R403	527	573	927	0.569	525	1.3	9.044	A
C - R402 (w)	581	168	1274	0.456	580	0.8	5.181	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (e)	770	193	1244	0.619	770	1.6	7.683	A
B - R403	527	575	926	0.569	527	1.3	9.158	A
C - R402 (w)	581	168	1274	0.456	581	0.8	5.198	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (e)	628	158	1264	0.497	631	1.0	5.777	A
B - R403	431	471	984	0.438	433	0.8	6.655	A
C - R402 (w)	475	138	1290	0.368	476	0.6	4.425	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - R402 (e)	526	132	1279	0.411	527	0.7	4.854	A
B - R403	361	394	1027	0.351	362	0.6	5.500	A
C - R402 (w)	398	116	1302	0.305	398	0.4	3.983	A

Q Variation Results for each time segment

16:45 - 17:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (e)	0.70	0.56	1.01	1.42	1.47			N/A	N/A
B - R403	0.54	0.54	1.02	1.42	1.47			N/A	N/A
C - R402 (w)	0.44	0.00	0.00	0.44	0.44			N/A	N/A

17:00 - 17:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (e)	0.99	0.08	0.91	1.66	1.99			N/A	N/A
B - R403	0.78	0.11	0.88	1.43	1.50			N/A	N/A
C - R402 (w)	0.58	0.10	0.83	1.37	1.43			N/A	N/A

17:15 - 17:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (e)	1.61	0.03	0.27	1.61	1.61			N/A	N/A
B - R403	1.31	0.03	0.27	1.31	1.31			N/A	N/A
C - R402 (w)	0.83	0.03	0.26	0.83	0.83			N/A	N/A

17:30 - 17:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (e)	1.63	0.03	0.27	1.63	1.63			N/A	N/A
B - R403	1.33	0.03	0.28	1.33	2.49			N/A	N/A
C - R402 (w)	0.84	0.03	0.27	0.84	2.09			N/A	N/A

17:45 - 18:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (e)	1.01	0.12	0.99	1.55	1.87			N/A	N/A
B - R403	0.80	0.10	0.88	1.08	1.08			N/A	N/A
C - R402 (w)	0.59	0.55	1.00	1.40	1.45			N/A	N/A

18:00 - 18:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - R402 (e)	0.71	0.06	0.63	1.49	1.52			N/A	N/A
B - R403	0.55	0.05	0.48	1.34	1.45			N/A	N/A
C - R402 (w)	0.44	0.00	0.00	0.44	0.44			N/A	N/A

Existing junction E, R401 / L3001 roundabout, Rathangan, ARCADY11 output

Junctions 11

ARCADY 11 - Roundabout Module

Version: 11.1.1.2424
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Filename: External Junction E.j11
Path: C:\AL Files\AL traffic Jobs Live\8571 - Ballydermot 2025\Picady
Report generation date: 11/10/2026 16:15:37

»Proposed - D1 - 2032 | No Dev | AM
»Proposed - D2 - 2032 | With Dev | AM
»Proposed - D3 - 2032 | No Dev | PM
»Proposed - D4 - 2032 | With Dev | PM

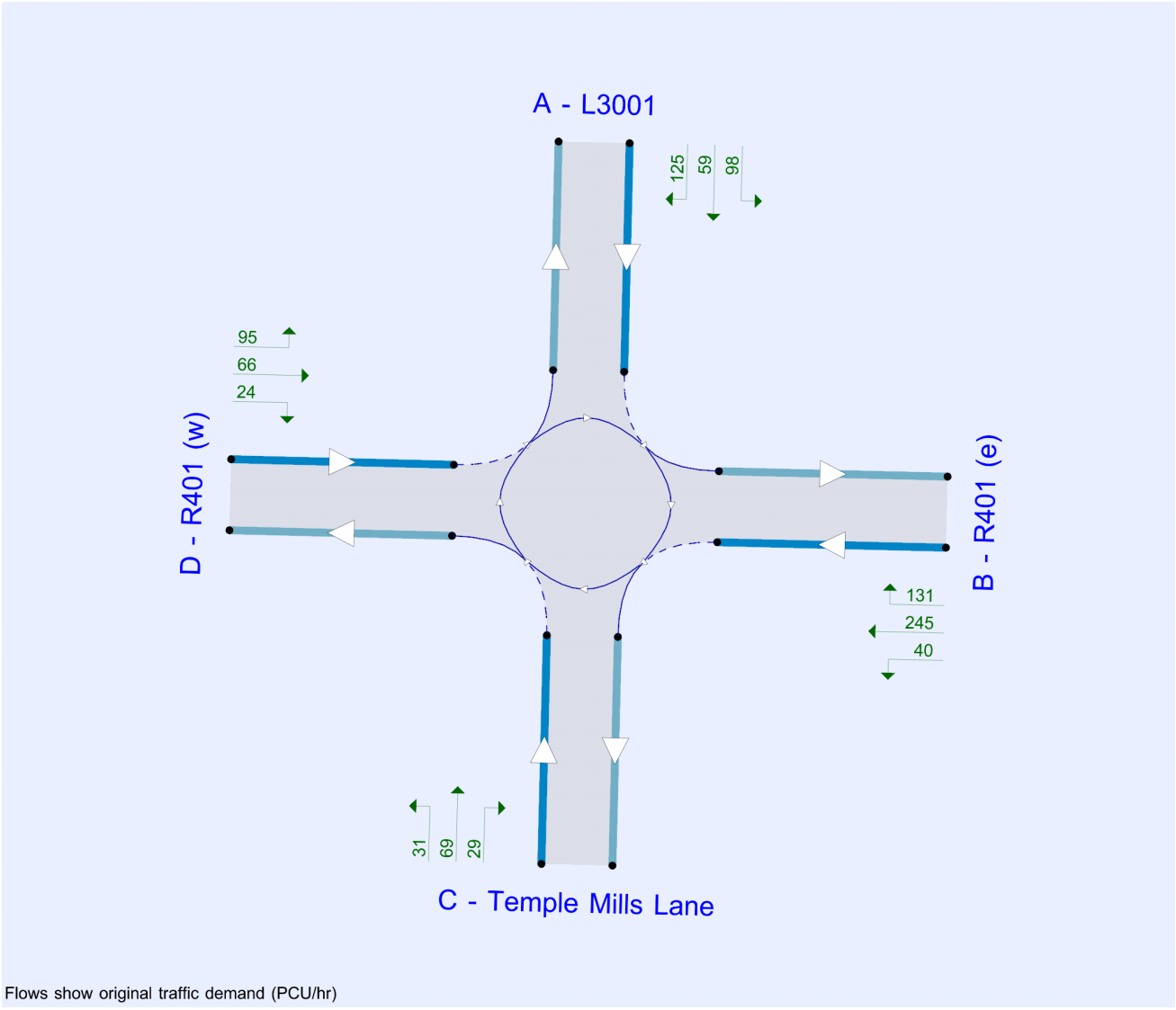
File summary

File Description

Title	External junction E, R401 / L3001 roundabout, Rathangan
Location	Ballydermot Wind Farm
Site number	
Date	30/06/2026
Version	
Status	(new file)
Identifier	
Client	Bord na Mona
Jobnumber	8571
Enumerator	Alan Lipscombe
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Av. delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin



Flows show original traffic demand (PCU/hr)

The junction diagram reflects the last run of Junctions.

Analysis Options

Calculate Q Percentiles	Calculate residual capacity	Residual capacity criteria type	RFC Threshold	Av. Delay threshold (s)	Q threshold (PCU)
✓	✓	Delay	0.85	36.00	20.00

Demand Set Summary

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2032	No Dev	AM	ONE HOUR	07:45	09:15	15
D2	2032	With Dev	AM	ONE HOUR	07:45	09:15	15
D3	2032	No Dev	PM	ONE HOUR	16:45	18:15	15
D4	2032	With Dev	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Name	Network flow scaling factor (%)
A1	Proposed	100.000

Proposed - D1 - 2032 | No Dev | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm order	Junction Delay (s)	Junction LOS
1	Access Junction	Standard Roundabout	A, B, C, D	5.31	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	181	D - R401 (w)	5.31	A

Arms

Arms

Arm	Name	Description	No give-way line
A	L3001		
B	R401 (e)		
C	Temple Mills Lane		
D	R401 (w)		

Roundabout Geometry

Arm	V (m)	E (m)	I' (m)	R (m)	D (m)	PHI (deg)	Entry only	Exit only
A - L3001	3.00	3.70	7.0	13.0	26.0	20.0		
B - R401 (e)	2.80	3.50	8.0	14.0	26.0	21.0		
C - Temple Mills Lane	3.00	3.00	0.0	20.0	26.0	27.0		
D - R401 (w)	3.00	3.50	10.0	5.0	26.0	32.0		

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
A - L3001	0.536	1079
B - R401 (e)	0.526	1025
C - Temple Mills Lane	0.504	918
D - R401 (w)	0.445	880

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

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2032	No Dev	AM	ONE HOUR	07:45	09:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - L3001		✓	181	100.000
B - R401 (e)		✓	112	100.000
C - Temple Mills Lane		✓	168	100.000
D - R401 (w)		✓	168	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - L3001	B - R401 (e)	C - Temple Mills Lane	D - R401 (w)
From	A - L3001	0	96	78	7
	B - R401 (e)	58	0	13	41
	C - Temple Mills Lane	88	46	0	34
	D - R401 (w)	3	131	34	0

Vehicle Mix

Heavy Vehicle %

		To			
		A - L3001	B - R401 (e)	C - Temple Mills Lane	D - R401 (w)
From	A - L3001	0	5	5	0
	B - R401 (e)	5	0	5	0
	C - Temple Mills Lane	5	5	0	0
	D - R401 (w)	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
A - L3001	0.21	5.00	0.3	1.2	A
B - R401 (e)	0.13	4.46	0.2	0.5	A
C - Temple Mills Lane	0.22	5.55	0.3	1.3	A
D - R401 (w)	0.24	5.99	0.3	1.4	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - L3001	136	158	994	0.137	136	0.2	4.393	A
B - R401 (e)	84	89	978	0.086	84	0.1	4.151	A
C - Temple Mills Lane	126	79	878	0.144	126	0.2	4.968	A
D - R401 (w)	126	144	816	0.155	126	0.2	5.210	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - L3001	163	189	977	0.167	163	0.2	4.630	A
B - R401 (e)	101	107	968	0.104	101	0.1	4.277	A
C - Temple Mills Lane	151	95	871	0.174	151	0.2	5.198	A
D - R401 (w)	151	172	803	0.188	151	0.2	5.517	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - L3001	199	232	954	0.209	199	0.3	4.994	A
B - R401 (e)	123	131	956	0.129	123	0.2	4.458	A
C - Temple Mills Lane	185	117	860	0.215	185	0.3	5.539	A
D - R401 (w)	185	211	786	0.235	185	0.3	5.984	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - L3001	199	232	954	0.209	199	0.3	4.997	A
B - R401 (e)	123	131	956	0.129	123	0.2	4.459	A
C - Temple Mills Lane	185	117	860	0.215	185	0.3	5.545	A
D - R401 (w)	185	211	786	0.235	185	0.3	5.990	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - L3001	163	190	977	0.167	163	0.2	4.637	A
B - R401 (e)	101	107	968	0.104	101	0.1	4.281	A
C - Temple Mills Lane	151	95	870	0.174	151	0.2	5.207	A
D - R401 (w)	151	173	803	0.188	151	0.2	5.526	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - L3001	136	159	993	0.137	136	0.2	4.403	A
B - R401 (e)	84	90	977	0.086	84	0.1	4.157	A
C - Temple Mills Lane	126	80	878	0.144	127	0.2	4.979	A
D - R401 (w)	126	145	816	0.155	127	0.2	5.229	A

Q Variation Results for each time segment

07:45 - 08:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - L3001	0.17	0.00	0.00	0.17	0.17			N/A	N/A
B - R401 (e)	0.10	0.00	0.00	0.10	0.10			N/A	N/A
C - Temple Mills Lane	0.17	0.00	0.00	0.17	0.17			N/A	N/A
D - R401 (w)	0.18	0.00	0.00	0.18	0.18			N/A	N/A

08:00 - 08:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - L3001	0.21	0.00	0.00	0.21	0.21			N/A	N/A
B - R401 (e)	0.12	0.00	0.00	0.12	0.12			N/A	N/A
C - Temple Mills Lane	0.22	0.00	0.00	0.22	0.22			N/A	N/A
D - R401 (w)	0.23	0.00	0.00	0.23	0.23			N/A	N/A

08:15 - 08:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - L3001	0.27	0.03	0.27	0.48	0.51			N/A	N/A
B - R401 (e)	0.15	0.03	0.26	0.48	0.50			N/A	N/A
C - Temple Mills Lane	0.28	0.03	0.26	0.48	0.50			N/A	N/A
D - R401 (w)	0.31	0.03	0.25	0.46	0.48			N/A	N/A

08:30 - 08:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - L3001	0.28	0.03	0.31	0.87	1.23			N/A	N/A
B - R401 (e)	0.15	0.03	0.26	0.46	0.49			N/A	N/A
C - Temple Mills Lane	0.28	0.03	0.31	0.97	1.29			N/A	N/A
D - R401 (w)	0.31	0.03	0.31	1.07	1.36			N/A	N/A

08:45 - 09:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - L3001	0.21	0.00	0.00	0.21	0.21			N/A	N/A
B - R401 (e)	0.12	0.00	0.00	0.12	0.12			N/A	N/A
C - Temple Mills Lane	0.22	0.00	0.00	0.22	0.22			N/A	N/A
D - R401 (w)	0.23	0.00	0.00	0.23	0.23			N/A	N/A

09:00 - 09:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - L3001	0.17	0.00	0.00	0.17	0.17			N/A	N/A
B - R401 (e)	0.10	0.00	0.00	0.10	0.10			N/A	N/A
C - Temple Mills Lane	0.18	0.00	0.00	0.18	0.18			N/A	N/A
D - R401 (w)	0.18	0.00	0.00	0.18	0.18			N/A	N/A

Proposed - D2 - 2032 | With Dev | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm order	Junction Delay (s)	Junction LOS
1	Access Junction	Standard Roundabout	A, B, C, D	6.42	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	82	D - R401 (w)	6.42	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2032	With Dev	AM	ONE HOUR	07:45	09:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - L3001		✓	267	100.000
B - R401 (e)		✓	149	100.000
C - Temple Mills Lane		✓	168	100.000
D - R401 (w)		✓	290	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - L3001	B - R401 (e)	C - Temple Mills Lane	D - R401 (w)
From	A - L3001	0	96	78	93
	B - R401 (e)	95	0	13	41
	C - Temple Mills Lane	88	46	0	34
	D - R401 (w)	125	131	34	0

Vehicle Mix

Heavy Vehicle %

		To			
		A - L3001	B - R401 (e)	C - Temple Mills Lane	D - R401 (w)
From	A - L3001	0	5	5	0
	B - R401 (e)	5	0	5	0
	C - Temple Mills Lane	5	5	0	0
	D - R401 (w)	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
A - L3001	0.31	5.63	0.5	1.9	A
B - R401 (e)	0.18	5.03	0.2	0.6	A
C - Temple Mills Lane	0.23	6.17	0.3	1.4	A
D - R401 (w)	0.42	8.03	0.7	2.8	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - L3001	201	158	994	0.202	200	0.3	4.673	A
B - R401 (e)	112	153	944	0.119	112	0.1	4.477	A
C - Temple Mills Lane	126	172	832	0.152	126	0.2	5.292	A
D - R401 (w)	218	171	804	0.272	217	0.4	6.121	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - L3001	240	189	977	0.246	240	0.3	5.036	A
B - R401 (e)	134	184	928	0.144	134	0.2	4.696	A
C - Temple Mills Lane	151	206	815	0.185	151	0.2	5.634	A
D - R401 (w)	261	206	788	0.331	260	0.5	6.810	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - L3001	294	232	954	0.308	293	0.5	5.618	A
B - R401 (e)	164	225	906	0.181	164	0.2	5.022	A
C - Temple Mills Lane	185	252	792	0.234	185	0.3	6.162	A
D - R401 (w)	319	252	768	0.416	318	0.7	7.994	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - L3001	294	232	954	0.308	294	0.5	5.627	A
B - R401 (e)	164	226	906	0.181	164	0.2	5.025	A
C - Temple Mills Lane	185	252	791	0.234	185	0.3	6.169	A
D - R401 (w)	319	252	768	0.416	319	0.7	8.027	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - L3001	240	190	977	0.246	241	0.3	5.049	A
B - R401 (e)	134	185	927	0.144	134	0.2	4.701	A
C - Temple Mills Lane	151	206	815	0.185	151	0.2	5.646	A
D - R401 (w)	261	206	788	0.331	262	0.5	6.848	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - L3001	201	159	993	0.202	201	0.3	4.692	A
B - R401 (e)	112	155	943	0.119	112	0.1	4.489	A
C - Temple Mills Lane	126	173	831	0.152	127	0.2	5.312	A
D - R401 (w)	218	173	803	0.272	219	0.4	6.166	A

Q Variation Results for each time segment

07:45 - 08:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - L3001	0.26	0.00	0.00	0.26	0.26			N/A	N/A
B - R401 (e)	0.14	0.00	0.00	0.14	0.14			N/A	N/A
C - Temple Mills Lane	0.19	0.00	0.00	0.19	0.19			N/A	N/A
D - R401 (w)	0.37	0.00	0.00	0.37	0.37			N/A	N/A

08:00 - 08:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - L3001	0.33	0.00	0.00	0.33	0.33			N/A	N/A
B - R401 (e)	0.17	0.00	0.00	0.17	0.17			N/A	N/A
C - Temple Mills Lane	0.23	0.00	0.00	0.23	0.23			N/A	N/A
D - R401 (w)	0.49	0.00	0.00	0.49	0.49			N/A	N/A

08:15 - 08:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - L3001	0.46	0.03	0.26	0.47	0.50			N/A	N/A
B - R401 (e)	0.23	0.03	0.26	0.47	0.50			N/A	N/A
C - Temple Mills Lane	0.31	0.03	0.26	0.48	0.50			N/A	N/A
D - R401 (w)	0.70	0.03	0.26	0.70	0.70			N/A	N/A

08:30 - 08:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - L3001	0.46	0.03	0.32	1.39	1.94			N/A	N/A
B - R401 (e)	0.23	0.03	0.27	0.49	0.62			N/A	N/A
C - Temple Mills Lane	0.32	0.03	0.32	1.10	1.40			N/A	N/A
D - R401 (w)	0.71	0.03	0.28	0.91	2.81			N/A	N/A

08:45 - 09:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - L3001	0.34	0.00	0.00	0.34	0.34			N/A	N/A
B - R401 (e)	0.18	0.00	0.00	0.18	0.18			N/A	N/A
C - Temple Mills Lane	0.24	0.00	0.00	0.24	0.24			N/A	N/A
D - R401 (w)	0.50	0.00	0.00	0.50	0.50			N/A	N/A

09:00 - 09:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - L3001	0.26	0.00	0.00	0.26	0.26			N/A	N/A
B - R401 (e)	0.14	0.00	0.00	0.14	0.14			N/A	N/A
C - Temple Mills Lane	0.19	0.00	0.00	0.19	0.19			N/A	N/A
D - R401 (w)	0.38	0.03	0.26	0.47	0.50			N/A	N/A

Proposed - D3 - 2032 | No Dev | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm order	Junction Delay (s)	Junction LOS
1	Access Junction	Standard Roundabout	A, B, C, D	5.74	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	118	B - R401 (e)	5.74	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D3	2032	No Dev	PM	ONE HOUR	16:45	18:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - L3001		✓	123	100.000
B - R401 (e)		✓	343	100.000
C - Temple Mills Lane		✓	129	100.000
D - R401 (w)		✓	99	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - L3001	B - R401 (e)	C - Temple Mills Lane	D - R401 (w)
From	A - L3001	0	61	59	3
	B - R401 (e)	131	0	40	172
	C - Temple Mills Lane	69	29	0	31
	D - R401 (w)	9	66	24	0

Vehicle Mix

Heavy Vehicle %

		To			
		A - L3001	B - R401 (e)	C - Temple Mills Lane	D - R401 (w)
From	A - L3001	0	5	5	0
	B - R401 (e)	5	0	5	0
	C - Temple Mills Lane	5	5	0	0
	D - R401 (w)	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
A - L3001	0.13	4.32	0.2	0.5	A
B - R401 (e)	0.39	6.17	0.6	2.7	A
C - Temple Mills Lane	0.19	6.16	0.2	1.0	A
D - R401 (w)	0.14	5.46	0.2	0.5	A

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - L3001	93	89	1031	0.090	92	0.1	4.020	A
B - R401 (e)	258	64	991	0.261	257	0.4	5.016	A
C - Temple Mills Lane	97	229	803	0.121	97	0.1	5.282	A
D - R401 (w)	75	171	804	0.093	74	0.1	4.933	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - L3001	111	107	1021	0.108	110	0.1	4.144	A
B - R401 (e)	308	77	984	0.313	308	0.5	5.451	A
C - Temple Mills Lane	116	275	780	0.149	116	0.2	5.621	A
D - R401 (w)	89	206	788	0.113	89	0.1	5.146	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - L3001	135	131	1009	0.134	135	0.2	4.323	A
B - R401 (e)	378	95	975	0.387	377	0.6	6.159	A
C - Temple Mills Lane	142	336	749	0.190	142	0.2	6.147	A
D - R401 (w)	109	252	768	0.142	109	0.2	5.460	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - L3001	135	131	1008	0.134	135	0.2	4.324	A
B - R401 (e)	378	95	975	0.387	378	0.6	6.174	A
C - Temple Mills Lane	142	337	749	0.190	142	0.2	6.155	A
D - R401 (w)	109	252	768	0.142	109	0.2	5.464	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - L3001	111	107	1021	0.108	111	0.1	4.148	A
B - R401 (e)	308	77	984	0.313	309	0.5	5.469	A
C - Temple Mills Lane	116	276	780	0.149	116	0.2	5.631	A
D - R401 (w)	89	206	788	0.113	89	0.1	5.150	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - L3001	93	90	1031	0.090	93	0.1	4.027	A
B - R401 (e)	258	65	990	0.261	259	0.4	5.043	A
C - Temple Mills Lane	97	231	802	0.121	97	0.1	5.301	A
D - R401 (w)	75	173	803	0.093	75	0.1	4.944	A

Q Variation Results for each time segment

16:45 - 17:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - L3001	0.10	0.00	0.00	0.10	0.10			N/A	N/A
B - R401 (e)	0.36	0.00	0.00	0.36	0.36			N/A	N/A
C - Temple Mills Lane	0.14	0.00	0.00	0.14	0.14			N/A	N/A
D - R401 (w)	0.10	0.00	0.00	0.10	0.10			N/A	N/A

17:00 - 17:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - L3001	0.13	0.00	0.00	0.13	0.13			N/A	N/A
B - R401 (e)	0.46	0.00	0.00	0.46	0.46			N/A	N/A
C - Temple Mills Lane	0.18	0.00	0.00	0.18	0.18			N/A	N/A
D - R401 (w)	0.13	0.00	0.00	0.13	0.13			N/A	N/A

17:15 - 17:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - L3001	0.16	0.03	0.27	0.48	0.51			N/A	N/A
B - R401 (e)	0.64	0.03	0.26	0.64	0.64			N/A	N/A
C - Temple Mills Lane	0.24	0.03	0.26	0.48	0.50			N/A	N/A
D - R401 (w)	0.16	0.03	0.26	0.46	0.49			N/A	N/A

17:30 - 17:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - L3001	0.16	0.03	0.26	0.47	0.50			N/A	N/A
B - R401 (e)	0.64	0.03	0.29	1.05	2.72			N/A	N/A
C - Temple Mills Lane	0.24	0.03	0.29	0.52	1.02			N/A	N/A
D - R401 (w)	0.16	0.03	0.25	0.45	0.48			N/A	N/A

17:45 - 18:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - L3001	0.13	0.00	0.00	0.13	0.13			N/A	N/A
B - R401 (e)	0.47	0.00	0.00	0.47	0.47			N/A	N/A
C - Temple Mills Lane	0.18	0.00	0.00	0.18	0.18			N/A	N/A
D - R401 (w)	0.13	0.00	0.00	0.13	0.13			N/A	N/A

18:00 - 18:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - L3001	0.10	0.00	0.00	0.10	0.10			N/A	N/A
B - R401 (e)	0.36	0.00	0.00	0.36	0.36			N/A	N/A
C - Temple Mills Lane	0.14	0.00	0.00	0.14	0.14			N/A	N/A
D - R401 (w)	0.10	0.00	0.00	0.10	0.10			N/A	N/A

Proposed - D4 - 2032 | With Dev | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm order	Junction Delay (s)	Junction LOS
1	Access Junction	Standard Roundabout	A, B, C, D	6.98	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	61	B - R401 (e)	6.98	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D4	2032	With Dev	PM	ONE HOUR	16:45	18:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - L3001		✓	282	100.000
B - R401 (e)		✓	416	100.000
C - Temple Mills Lane		✓	129	100.000
D - R401 (w)		✓	185	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - L3001	B - R401 (e)	C - Temple Mills Lane	D - R401 (w)
From	A - L3001	0	98	59	125
	B - R401 (e)	131	0	40	245
	C - Temple Mills Lane	69	29	0	31
	D - R401 (w)	95	66	24	0

Vehicle Mix

Heavy Vehicle %

		To			
		A - L3001	B - R401 (e)	C - Temple Mills Lane	D - R401 (w)
From	A - L3001	0	5	5	0
	B - R401 (e)	5	0	5	0
	C - Temple Mills Lane	5	5	0	0
	D - R401 (w)	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
A - L3001	0.31	5.30	0.5	1.9	A
B - R401 (e)	0.51	8.23	1.0	2.3	A
C - Temple Mills Lane	0.22	7.49	0.3	1.3	A
D - R401 (w)	0.27	6.38	0.4	1.2	A

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - L3001	212	89	1031	0.206	211	0.3	4.506	A
B - R401 (e)	313	156	943	0.332	311	0.5	5.796	A
C - Temple Mills Lane	97	375	730	0.133	96	0.2	5.893	A
D - R401 (w)	139	171	804	0.173	138	0.2	5.404	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - L3001	254	107	1021	0.248	253	0.3	4.813	A
B - R401 (e)	374	187	926	0.404	373	0.7	6.630	A
C - Temple Mills Lane	116	450	692	0.168	116	0.2	6.481	A
D - R401 (w)	166	205	788	0.211	166	0.3	5.783	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - L3001	310	131	1009	0.308	310	0.5	5.290	A
B - R401 (e)	458	229	904	0.506	457	1.0	8.150	A
C - Temple Mills Lane	142	550	641	0.221	142	0.3	7.471	A
D - R401 (w)	204	251	768	0.265	203	0.4	6.370	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - L3001	310	131	1008	0.308	310	0.5	5.298	A
B - R401 (e)	458	229	904	0.507	458	1.0	8.228	A
C - Temple Mills Lane	142	552	641	0.222	142	0.3	7.490	A
D - R401 (w)	204	252	768	0.265	204	0.4	6.381	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - L3001	254	107	1021	0.248	254	0.3	4.822	A
B - R401 (e)	374	187	926	0.404	375	0.7	6.682	A
C - Temple Mills Lane	116	452	691	0.168	116	0.2	6.503	A
D - R401 (w)	166	207	788	0.211	167	0.3	5.796	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - L3001	212	90	1031	0.206	213	0.3	4.524	A
B - R401 (e)	313	157	942	0.332	314	0.5	5.853	A
C - Temple Mills Lane	97	378	728	0.133	97	0.2	5.925	A
D - R401 (w)	139	173	803	0.173	140	0.2	5.429	A

Q Variation Results for each time segment

16:45 - 17:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - L3001	0.26	0.00	0.00	0.26	0.26			N/A	N/A
B - R401 (e)	0.50	0.00	0.00	0.50	0.50			N/A	N/A
C - Temple Mills Lane	0.16	0.00	0.00	0.16	0.16			N/A	N/A
D - R401 (w)	0.21	0.00	0.00	0.21	0.21			N/A	N/A

17:00 - 17:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - L3001	0.34	0.00	0.00	0.34	0.34			N/A	N/A
B - R401 (e)	0.68	0.15	0.91	1.41	1.47			N/A	N/A
C - Temple Mills Lane	0.21	0.00	0.00	0.21	0.21			N/A	N/A
D - R401 (w)	0.27	0.00	0.00	0.27	0.27			N/A	N/A

17:15 - 17:30

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - L3001	0.45	0.03	0.26	0.47	0.49			N/A	N/A
B - R401 (e)	1.03	0.03	0.27	1.03	1.03			N/A	N/A
C - Temple Mills Lane	0.29	0.03	0.26	0.48	0.50			N/A	N/A
D - R401 (w)	0.36	0.03	0.25	0.46	0.48			N/A	N/A

17:30 - 17:45

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - L3001	0.46	0.03	0.32	1.38	1.93			N/A	N/A
B - R401 (e)	1.04	0.03	0.28	1.04	2.30			N/A	N/A
C - Temple Mills Lane	0.29	0.03	0.32	1.02	1.33			N/A	N/A
D - R401 (w)	0.36	0.03	0.32	1.21	1.21			N/A	N/A

17:45 - 18:00

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - L3001	0.34	0.00	0.00	0.34	0.34			N/A	N/A
B - R401 (e)	0.70	0.12	0.89	1.40	1.47			N/A	N/A
C - Temple Mills Lane	0.21	0.00	0.00	0.21	0.21			N/A	N/A
D - R401 (w)	0.27	0.00	0.00	0.27	0.27			N/A	N/A

18:00 - 18:15

Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
A - L3001	0.27	0.00	0.00	0.27	0.27			N/A	N/A
B - R401 (e)	0.51	0.05	0.47	1.31	1.42			N/A	N/A
C - Temple Mills Lane	0.16	0.00	0.00	0.16	0.16			N/A	N/A
D - R401 (w)	0.21	0.00	0.00	0.21	0.21			N/A	N/A

Existing junction F, R415 / L7081 junction, Kilmeague, PICADY11 output

Junctions 11

PICADY 11 - Priority Intersection Module

Version: 11.1.1.2424
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Filename: External Junction F.j11
Path: C:\AL Files\AL traffic Jobs Live\8571 - Ballydermot 2025\Picady
Report generation date: 11/10/2026 16:17:22

»Proposed - D1 - 2032 | No Dev | AM
»Proposed - D2 - 2032 | With Dev | AM
»Proposed - D3 - 2032 | No Dev | PM
»Proposed - D4 - 2032 | With Dev | PM

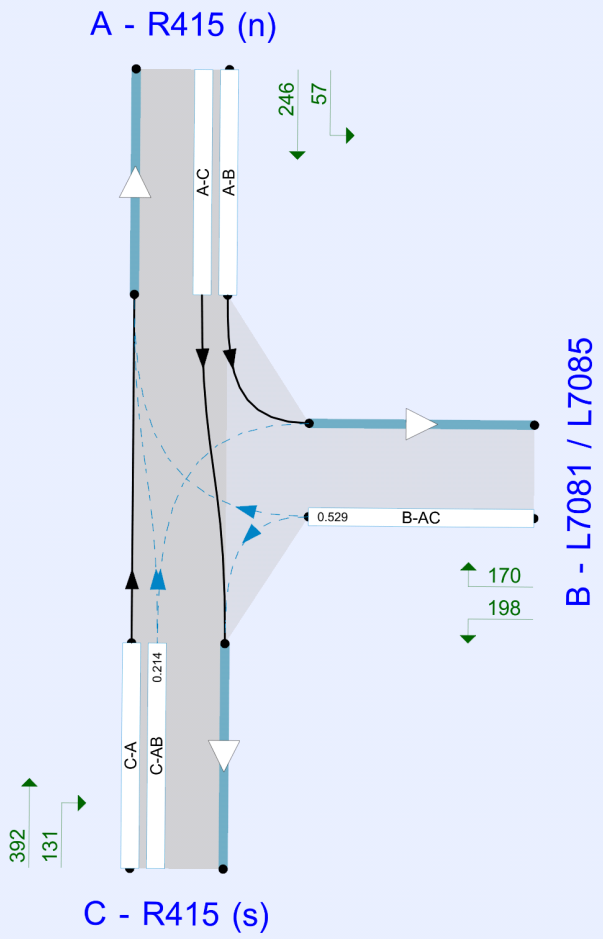
File summary

File Description

Title	External junction F, R415 / L7081, Kilmeague
Location	Ballydermot Wind Farm
Site number	
Date	30/06/2026
Version	
Status	(new file)
Identifier	
Client	Bord na Mona
Jobnumber	8571
Enumerator	Alan Lipscombe
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Av. delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin



Flows show original traffic demand (PCU/hr)
Streams (downstream end) show RFC ()

The junction diagram reflects the last run of Junctions.

Analysis Options

PICADY short flare model	Calculate Q Percentiles	Calculate residual capacity	Residual capacity criteria type	RFC Threshold	Av. Delay threshold (s)	Q threshold (PCU)
JUNCTIONS 11.1	✓	✓	Delay	0.85	36.00	20.00

Demand Set Summary

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2032	No Dev	AM	ONE HOUR	07:45	09:15	15
D2	2032	With Dev	AM	ONE HOUR	07:45	09:15	15
D3	2032	No Dev	PM	ONE HOUR	16:45	18:15	15
D4	2032	With Dev	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Name	Network flow scaling factor (%)
A1	Proposed	100.000

Proposed - D1 - 2032 | No Dev | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	Access Junction	T-Junction	Two-way	Two-way	Two-way	4.28	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	77	Stream C-AB	4.28	A

Arms

Arms

Arm	Name	Description	Arm type
A	R415 (n)		Major
B	L7081 / L7085		Minor
C	R415 (s)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - R415 (s)	6.50			50.0	✓	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 - L7081 / L7085	One lane	3.50	70	70

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	562	0.100	0.253	0.159	0.362
B-C	701	0.105	0.266	-	-
C-B	603	0.229	0.229	-	-

The slopes and intercepts shown above include custom intercept adjustments only.

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	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2032	No Dev	AM	ONE HOUR	07:45	09:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - R415 (n)		✓	400	100.000
B - L7081 / L7085		✓	166	100.000
C - R415 (s)		✓	282	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - R415 (n)	B - L7081 / L7085	C - R415 (s)
From	A - R415 (n)	0	153	247
	B - L7081 / L7085	36	0	130
	C - R415 (s)	129	153	0

Vehicle Mix

Heavy Vehicle %

		To		
		A - R415 (n)	B - L7081 / L7085	C - R415 (s)
From	A - R415 (n)	0	5	5
	B - L7081 / L7085	5	0	5
	C - R415 (s)	5	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
B-AC	0.34	10.43	0.5	2.4	B
C-AB	0.36	9.86	0.7	3.4	A
C-A					
A-B					
A-C					

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	125	0.00	585	0.214	124	0.3	8.180	A
C-AB	137	0.00	602	0.228	136	0.4	8.086	A
C-A	75	0.00			75			
A-B	115	0.00			115			
A-C	186	0.00			186			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	149	0.00	568	0.263	149	0.4	9.003	A
C-AB	171	0.00	603	0.283	170	0.5	8.725	A
C-A	83	0.00			83			
A-B	138	0.00			138			
A-C	222	0.00			222			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	183	0.00	545	0.335	182	0.5	10.391	B
C-AB	221	0.00	605	0.365	220	0.7	9.812	A
C-A	90	0.00			90			
A-B	168	0.00			168			
A-C	272	0.00			272			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	183	0.00	545	0.335	183	0.5	10.429	B
C-AB	221	0.00	605	0.365	221	0.7	9.859	A
C-A	90	0.00			90			
A-B	168	0.00			168			
A-C	272	0.00			272			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	149	0.00	568	0.263	150	0.4	9.048	A
C-AB	171	0.00	604	0.283	172	0.5	8.781	A
C-A	83	0.00			83			
A-B	138	0.00			138			
A-C	222	0.00			222			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	125	0.00	585	0.214	125	0.3	8.236	A
C-AB	138	0.00	603	0.228	138	0.4	8.153	A
C-A	75	0.00			75			
A-B	115	0.00			115			
A-C	186	0.00			186			

Q Variation Results for each time segment

07:45 - 08:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.28	0.00	0.00	0.28	0.28			N/A	N/A
C-AB	0.35	0.00	0.00	0.35	0.35			N/A	N/A

08:00 - 08:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.37	0.00	0.00	0.37	0.37			N/A	N/A
C-AB	0.48	0.00	0.00	0.48	0.48			N/A	N/A

08:15 - 08:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.52	0.03	0.27	0.52	0.52			N/A	N/A
C-AB	0.71	0.03	0.27	0.71	0.71			N/A	N/A

08:30 - 08:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.52	0.03	0.31	1.41	2.39			N/A	N/A
C-AB	0.72	0.03	0.33	1.43	3.45			N/A	N/A

08:45 - 09:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.38	0.00	0.00	0.38	0.38			N/A	N/A
C-AB	0.50	0.00	0.00	0.50	0.50			N/A	N/A

09:00 - 09:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.29	0.00	0.00	0.29	0.29			N/A	N/A
C-AB	0.37	0.00	0.00	0.37	0.37			N/A	N/A

Proposed - D2 - 2032 | With Dev | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	Access Junction	T-Junction	Two-way	Two-way	Two-way	4.00	A

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	52	Stream B-AC	4.00	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2032	With Dev	AM	ONE HOUR	07:45	09:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - R415 (n)		✓	559	100.000
B - L7081 / L7085		✓	166	100.000
C - R415 (s)		✓	368	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - R415 (n)	B - L7081 / L7085	C - R415 (s)
From	A - R415 (n)	0	153	406
	B - L7081 / L7085	36	0	130
	C - R415 (s)	215	153	0

Vehicle Mix

Heavy Vehicle %

		To		
		A - R415 (n)	B - L7081 / L7085	C - R415 (s)
From	A - R415 (n)	0	5	5
	B - L7081 / L7085	5	0	5
	C - R415 (s)	5	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
B-AC	0.37	12.28	0.6	2.9	B
C-AB	0.42	10.27	1.0	5.2	B
C-A					
A-B					
A-C					

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	125	0.00	549	0.228	124	0.3	8.869	A
C-AB	156	0.00	623	0.250	154	0.4	8.040	A
C-A	121	0.00			121			
A-B	115	0.00			115			
A-C	306	0.00			306			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	149	0.00	525	0.284	149	0.4	10.047	B
C-AB	199	0.00	629	0.316	198	0.6	8.780	A
C-A	132	0.00			132			
A-B	138	0.00			138			
A-C	365	0.00			365			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	183	0.00	491	0.373	182	0.6	12.216	B
C-AB	269	0.00	639	0.421	267	1.0	10.190	B
C-A	136	0.00			136			
A-B	168	0.00			168			
A-C	447	0.00			447			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	183	0.00	490	0.373	183	0.6	12.284	B
C-AB	269	0.00	639	0.421	269	1.0	10.271	B
C-A	136	0.00			136			
A-B	168	0.00			168			
A-C	447	0.00			447			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	149	0.00	524	0.285	150	0.4	10.117	B
C-AB	200	0.00	630	0.317	201	0.7	8.871	A
C-A	131	0.00			131			
A-B	138	0.00			138			
A-C	365	0.00			365			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	125	0.00	548	0.228	125	0.3	8.947	A
C-AB	156	0.00	624	0.251	157	0.5	8.130	A
C-A	121	0.00			121			
A-B	115	0.00			115			
A-C	306	0.00			306			

Q Variation Results for each time segment

07:45 - 08:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.31	0.00	0.00	0.31	0.31			N/A	N/A
C-AB	0.44	0.00	0.00	0.44	0.44			N/A	N/A

08:00 - 08:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.41	0.00	0.00	0.41	0.41			N/A	N/A
C-AB	0.63	0.58	1.05	1.47	1.52			N/A	N/A

08:15 - 08:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.61	0.03	0.27	0.61	0.61			N/A	N/A
C-AB	1.02	0.03	0.28	1.02	1.02			N/A	N/A

08:30 - 08:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.62	0.03	0.31	1.42	2.89			N/A	N/A
C-AB	1.04	0.03	0.33	2.06	5.17			N/A	N/A

08:45 - 09:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.42	0.00	0.00	0.42	0.42			N/A	N/A
C-AB	0.66	0.58	1.05	1.47	1.52			N/A	N/A

09:00 - 09:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.31	0.03	0.26	0.47	0.50			N/A	N/A
C-AB	0.46	0.03	0.33	1.09	1.33			N/A	N/A

Proposed - D3 - 2032 | No Dev | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	Access Junction	T-Junction	Two-way	Two-way	Two-way	14.36	B

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	1	Stream B-AC	14.36	B

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D3	2032	No Dev	PM	ONE HOUR	16:45	18:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - R415 (n)		✓	217	100.000
B - L7081 / L7085		✓	368	100.000
C - R415 (s)		✓	364	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - R415 (n)	B - L7081 / L7085	C - R415 (s)
From	A - R415 (n)	0	57	160
	B - L7081 / L7085	170	0	198
	C - R415 (s)	233	131	0

Vehicle Mix

Heavy Vehicle %

		To		
		A - R415 (n)	B - L7081 / L7085	C - R415 (s)
From	A - R415 (n)	0	5	5
	B - L7081 / L7085	5	0	5
	C - R415 (s)	5	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
B-AC	0.78	33.14	3.5	17.8	D
C-AB	0.31	7.53	0.6	2.5	A
C-A					
A-B					
A-C					

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	277	0.00	554	0.500	273	1.0	13.277	B
C-AB	133	0.00	686	0.193	131	0.3	6.806	A
C-A	142	0.00			142			
A-B	43	0.00			43			
A-C	120	0.00			120			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	331	0.00	538	0.615	329	1.6	17.819	C
C-AB	168	0.00	703	0.239	168	0.4	7.066	A
C-A	159	0.00			159			
A-B	51	0.00			51			
A-C	144	0.00			144			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	405	0.00	516	0.785	398	3.3	30.290	D
C-AB	224	0.00	727	0.308	223	0.6	7.504	A
C-A	177	0.00			177			
A-B	63	0.00			63			
A-C	176	0.00			176			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	405	0.00	516	0.785	404	3.5	33.144	D
C-AB	224	0.00	727	0.308	224	0.6	7.526	A
C-A	177	0.00			177			
A-B	63	0.00			63			
A-C	176	0.00			176			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	331	0.00	538	0.615	338	1.8	19.515	C
C-AB	168	0.00	703	0.240	169	0.4	7.097	A
C-A	159	0.00			159			
A-B	51	0.00			51			
A-C	144	0.00			144			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	277	0.00	553	0.501	280	1.1	13.944	B
C-AB	133	0.00	686	0.194	133	0.3	6.852	A
C-A	141	0.00			141			
A-B	43	0.00			43			
A-C	120	0.00			120			

Q Variation Results for each time segment

16:45 - 17:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.02	0.58	1.05	1.47	1.52			N/A	N/A
C-AB	0.32	0.00	0.00	0.32	0.32			N/A	N/A

17:00 - 17:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.60	0.10	1.24	3.07	4.09			N/A	N/A
C-AB	0.43	0.00	0.00	0.43	0.43			N/A	N/A

17:15 - 17:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	3.33	0.04	0.39	8.52	17.75			N/A	N/A
C-AB	0.63	0.03	0.27	0.63	0.63			N/A	N/A

17:30 - 17:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	3.55	0.03	0.33	5.23	17.80			N/A	N/A
C-AB	0.64	0.04	0.37	1.43	2.49			N/A	N/A

17:45 - 18:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.76	0.05	0.46	4.68	7.76			N/A	N/A
C-AB	0.45	0.00	0.00	0.45	0.45			N/A	N/A

18:00 - 18:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.08	0.04	0.37	2.62	5.14			N/A	N/A
C-AB	0.33	0.00	0.00	0.33	0.33			N/A	N/A

Proposed - D4 - 2032 | With Dev | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Q percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	Access Junction	T-Junction	Two-way	Two-way	Two-way	17.66	C

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-7	Stream B-AC	17.66	C

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D4	2032	With Dev	PM	ONE HOUR	16:45	18:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - R415 (n)		✓	303	100.000
B - L7081 / L7085		✓	368	100.000
C - R415 (s)		✓	523	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - R415 (n)	B - L7081 / L7085	C - R415 (s)
From	A - R415 (n)	0	57	246
	B - L7081 / L7085	170	0	198
	C - R415 (s)	392	131	0

Vehicle Mix

Heavy Vehicle %

		To		
		A - R415 (n)	B - L7081 / L7085	C - R415 (s)
From	A - R415 (n)	0	5	5
	B - L7081 / L7085	5	0	5
	C - R415 (s)	5	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max Q95 (PCU)	Max LOS
B-AC	0.86	52.52	5.5	29.7	F
C-AB	0.36	7.15	1.0	4.2	A
C-A					
A-B					
A-C					

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	277	0.00	524	0.529	272	1.1	14.799	B
C-AB	162	0.00	756	0.214	160	0.4	6.342	A
C-A	232	0.00			232			
A-B	43	0.00			43			
A-C	185	0.00			185			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	331	0.00	501	0.660	328	1.9	21.366	C
C-AB	214	0.00	788	0.272	213	0.6	6.594	A
C-A	256	0.00			256			
A-B	51	0.00			51			
A-C	221	0.00			221			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	405	0.00	470	0.862	393	4.9	43.578	E
C-AB	301	0.00	833	0.362	300	1.0	7.112	A
C-A	275	0.00			275			
A-B	63	0.00			63			
A-C	271	0.00			271			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	405	0.00	470	0.862	403	5.5	52.519	F
C-AB	302	0.00	833	0.362	302	1.0	7.149	A
C-A	274	0.00			274			
A-B	63	0.00			63			
A-C	271	0.00			271			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	331	0.00	501	0.660	344	2.2	25.791	D
C-AB	215	0.00	789	0.272	216	0.6	6.639	A
C-A	255	0.00			255			
A-B	51	0.00			51			
A-C	221	0.00			221			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Ped demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	277	0.00	523	0.530	281	1.2	15.835	C
C-AB	163	0.00	756	0.215	164	0.4	6.398	A
C-A	231	0.00			231			
A-B	43	0.00			43			
A-C	185	0.00			185			

Q Variation Results for each time segment

16:45 - 17:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.14	0.58	1.05	1.47	1.52			N/A	N/A
C-AB	0.43	0.00	0.00	0.43	0.43			N/A	N/A

17:00 - 17:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.91	0.10	1.31	4.07	5.56			N/A	N/A
C-AB	0.61	0.58	1.05	1.47	1.52			N/A	N/A

17:15 - 17:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	4.89	0.06	0.84	13.98	22.99			N/A	N/A
C-AB	0.96	0.03	0.28	0.96	0.96			N/A	N/A

17:30 - 17:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	5.50	0.04	0.42	14.40	29.72			N/A	N/A
C-AB	0.97	0.04	0.39	2.39	4.19			N/A	N/A

17:45 - 18:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	2.18	0.04	0.43	5.91	10.63			N/A	N/A
C-AB	0.63	0.58	1.05	1.47	1.52			N/A	N/A

18:00 - 18:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.22	0.03	0.34	2.52	6.21			N/A	N/A
C-AB	0.44	0.00	0.00	0.44	0.44			N/A	N/A

Existing junction G, R408 / R403 / L6002 junction, Prosperous, OSCADY11 output

Junctions 11

OSCADY 11 - Signalised Intersection Module

Version: 11.1.1.2424
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Filename: External Junction G.j11
Path: C:\AL Files\AL traffic Jobs Live\8571 - Ballydermot 2025\Picady
Report generation date: 11/10/2026 16:22:16

»D1 - 2025 | No Dev | AM
»D2 - 2032 | No Dev | AM
»D3 - 2032 | With Dev | AM
»D4 - 2025 | No Dev | PM
»D5 - 2032 | No Dev | PM
»D6 - 2032 | With Dev | PM

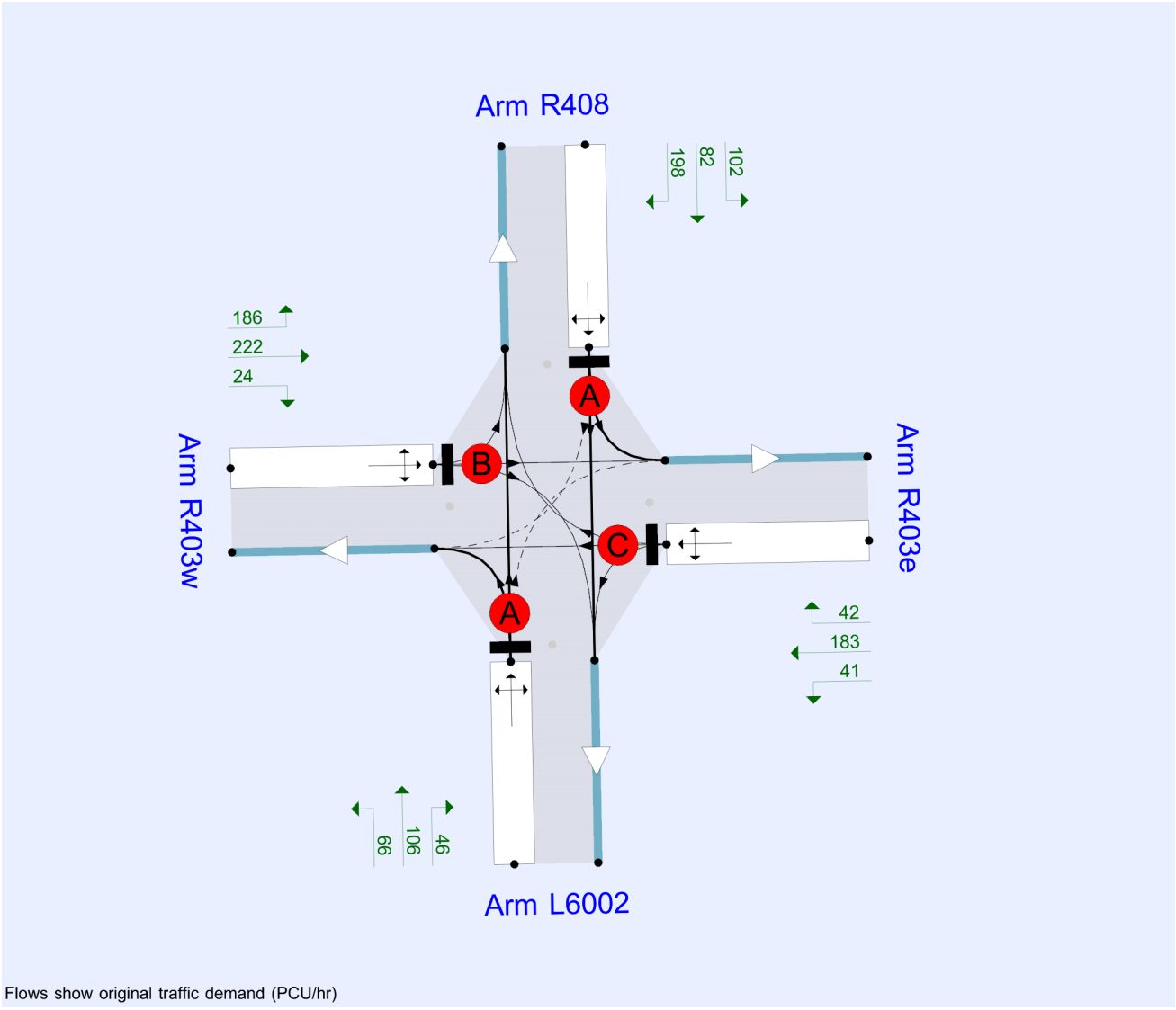
File summary

File Description

Title	
Location	
Site number	
Date	12/08/2026
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	DESKTOP-7QAH7HV\Alan Lipscombe
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Av. delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin



Flows show original traffic demand (PCU/hr)

The junction diagram reflects the last run of Junctions.

Analysis Options

Calculate Q Percentiles	Calculate residual capacity	Residual capacity criteria type	DOS Threshold	Av. Delay threshold (s)	Q threshold (PCU)
	✓	Delay	0.85	36.00	20.00

Demand Set Summary

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2025	No Dev	AM	ONE HOUR	07:45	09:15	15
D2	2032	No Dev	AM	ONE HOUR	07:45	09:15	15
D3	2032	With Dev	AM	ONE HOUR	07:45	09:15	15
D4	2025	No Dev	PM	ONE HOUR	16:45	18:15	15
D5	2032	No Dev	PM	ONE HOUR	16:45	18:15	15
D6	2032	With Dev	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

D1 - 2025 | No Dev | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix	Junction 1	HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Junction Delay (s)	Junction LOS
1	untitled	Signalised	109.43	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-100	Arm R403e - Traffic Stream 1	109.43	F

Arms

Arms

Arm	Name	Description
R408	untitled	
R403e	untitled	
L6002	untitled	
R403w	untitled	

OSCADY Traffic Streams

Arm	Traffic Stream	Phase	Right turners opposed	Destination arms	Straight move
R408	1	A	✓	R403e, L6002, R403w	L6002
R403e	1	C		R408, L6002, R403w	R403w
L6002	1	A	✓	R408, R403e, R403w	R408
R403w	1	B		R408, R403e, L6002	R403e

OSCADY Lanes

Arm	Traffic Stream	Destination arms	Gradient (%)	Width (m)	Turning radius (m)	Nearside lane	Has bay	Storage for right turners (PCU)
R408	1	R403e, L6002, R403w	0	3.00	10.00	✓		2.00
R403e	1	R408, L6002, R403w	0	3.00	10.00	✓		
L6002	1	R408, R403e, R403w	0	3.00	10.00	✓		2.00
R403w	1	R408, R403e, L6002	0	3.00	10.00	✓		

OSCADY Opposition

Arm	Traffic Stream	Opposed destination	Opposing arm ID	Opposing movements
R408	1	R403w	L6002	R403w, R408
L6002	1	R403e	R408	R403e, L6002

Signal Timings

Junction 1

Junction	Sequence to use	Cycle time (s)	Maximum cycle time (s)	Start displacement (s)	End displacement (s)
1	1	118	300	1.40	2.90

Optimisation options

Junction	Optimise stage lengths	Optimise cycle time	Optimiser demand source	Optimiser message
1	✓	✓	Av.	Timings provide capacity maximisation.

Phases

Junction	Phase	Name	Minimum green (s)
1	A		8
	B		8
	C		8

Library Stages

Junction	Library Stage	Phases in stage	User stage minimum (s)	Run every N cycles	Probability of running (%)
1	1	A	8		
	2	B	8		
	3	C	8		

Stage Sequences

Junction	Sequence	Name	Stage IDs
1	1	1,2,3	1, 2, 3

Intergreen Matrix for Junction 1

		To		
		A	B	C
From	A		20	5
	B	5		5
	C	5	5	

Banned Stage transitions for Junction 1

		To		
		1	2	3
From	1			X
	2	X		
	3		X	

Interstage Matrix for Junction 1

		To		
		1	2	3
From	1	0	20	5
	2	5	0	5
	3	5	5	0

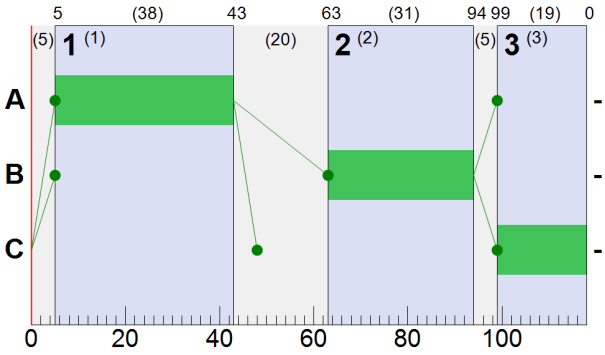
Resultant Stages

Junction	Resultant Stage	Is Base Stage	Library Stage ID	Phases in this stage	Stage start (s)	Stage end (s)	Stage duration (s)	User stage minimum (s)	Stage minimum (s)
1	1	✓	1	A	5	43	38	8	8
	2	✓	2	B	63	94	31	8	8
	3	✓	3	C	99	0	19	8	8

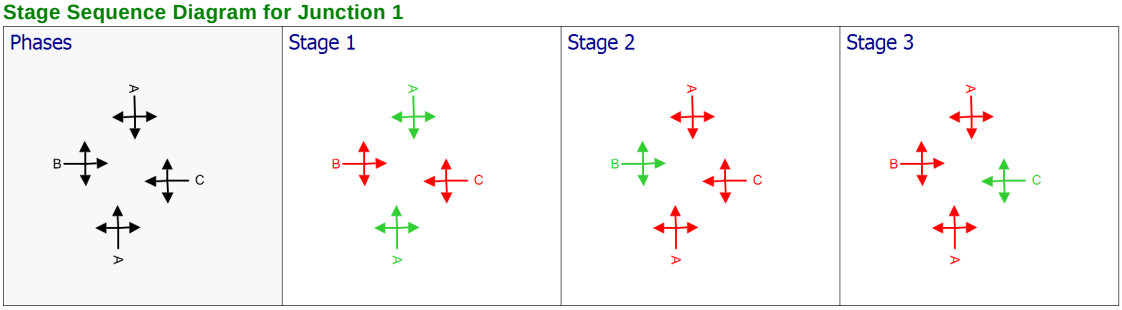
Resultant Phase Green Periods

Junction	Phase	Green period	Is base green period	Start time (s)	End time (s)	Duration (s)
1	A	1	✓	5	43	38
	B	1	✓	63	94	31
	C	1	✓	99	0	19

Phase Timings Diagram for Junction 1



Stage Sequence Diagram for Junction 1



Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2025	No Dev	AM	ONE HOUR	07:45	09:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
R408		✓	382	100.000
R403e		✓	266	100.000
L6002		✓	218	100.000
R403w		✓	432	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		R408	R403e	L6002	R403w
From	R408	0	102	82	198
	R403e	42	0	41	183
	L6002	106	46	0	66
	R403w	186	222	24	0

Vehicle Mix

Heavy Vehicle %

		To			
		R408	R403e	L6002	R403w
From	R408	0	0	0	0
	R403e	0	0	0	0
	L6002	0	0	0	0
	R403w	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max DOS	Max Delay (s)	Max Q (PCU)	Max LOS
R408	1.05	163.39	26.2	F
R403e	0.92	104.04	12.5	F
L6002	0.51	36.29	5.6	D
R403w	0.97	101.95	19.4	F

Main Results for each time segment

07:45 - 08:00

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	1	288	1369	39.50	0.00	458	0.628	260	6.9	40.528	D
R403e	1	200	1829	20.50	0.00	318	0.630	176	6.0	55.852	E
L6002	1	164	1494	39.50	0.00	500	0.328	149	3.7	31.419	C
R403w	1	325	1785	32.50	0.00	492	0.662	291	8.5	45.886	D

08:00 - 08:15

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	1	343	1296	39.50	0.00	434	0.792	334	9.1	51.582	D
R403e	1	239	1829	20.50	0.00	318	0.752	232	7.7	64.258	E
L6002	1	196	1459	39.50	0.00	488	0.401	193	4.4	33.095	C
R403w	1	388	1785	32.50	0.00	492	0.790	379	10.9	53.991	D

08:15 - 08:30

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	1	421	1194	39.50	0.00	400	1.053	379	19.6	98.289	F
R403e	1	293	1829	20.50	0.00	318	0.921	277	11.7	86.605	F
L6002	1	240	1404	39.50	0.00	470	0.511	236	5.5	36.182	D
R403w	1	476	1785	32.50	0.00	492	0.968	449	17.6	79.427	E

08:30 - 08:45

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	1	421	1194	39.50	0.00	400	1.053	394	26.2	163.393	F
R403e	1	293	1829	20.50	0.00	318	0.921	290	12.5	104.041	F
L6002	1	240	1404	39.50	0.00	470	0.511	240	5.6	36.290	D
R403w	1	476	1785	32.50	0.00	492	0.968	468	19.4	101.953	F

08:45 - 09:00

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	1	343	1296	39.50	0.00	434	0.792	404	11.1	122.790	F
R403e	1	239	1829	20.50	0.00	318	0.752	257	8.0	73.537	E
L6002	1	196	1459	39.50	0.00	488	0.401	200	4.4	33.178	C
R403w	1	388	1785	32.50	0.00	492	0.790	421	11.2	65.314	E

09:00 - 09:15

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	1	288	1369	39.50	0.00	458	0.628	304	6.9	41.811	D
R403e	1	200	1829	20.50	0.00	318	0.630	208	6.1	57.898	E
L6002	1	164	1494	39.50	0.00	500	0.328	167	3.7	31.464	C
R403w	1	325	1785	32.50	0.00	492	0.662	336	8.5	47.165	D

D2 - 2032 | No Dev | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix	Junction 1	HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Junction Delay (s)	Junction LOS
1	untitled	Signalised	160.17	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-100	Arm R403e - Traffic Stream 1	160.17	F

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2032	No Dev	AM	ONE HOUR	07:45	09:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
R408		✓	420	100.000
R403e		✓	292	100.000
L6002		✓	241	100.000
R403w		✓	475	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		R408	R403e	L6002	R403w
From	R408	0	112	90	218
	R403e	46	0	45	201
	L6002	117	51	0	73
	R403w	205	244	26	0

Vehicle Mix

Heavy Vehicle %

		To			
		R408	R403e	L6002	R403w
From	R408	0	0	0	0
	R403e	0	0	0	0
	L6002	0	0	0	0
	R403w	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max DOS	Max Delay (s)	Max Q (PCU)	Max LOS
R408	1.12	256.06	41.0	F
R403e	0.98	145.55	18.9	F
L6002	0.53	42.29	7.3	D
R403w	1.02	144.19	30.2	F

Main Results for each time segment

07:45 - 08:00

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	1	316	1327	53.50	0.00	480	0.659	280	9.0	47.712	D
R403e	1	220	1829	26.50	0.00	327	0.671	187	8.2	68.778	E
L6002	1	181	1479	53.50	0.00	535	0.339	162	4.9	36.439	D
R403w	1	358	1785	42.50	0.00	513	0.698	312	11.4	55.958	E

08:00 - 08:15

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	1	378	1250	53.50	0.00	452	0.836	365	12.1	62.341	E
R403e	1	263	1830	26.50	0.00	328	0.801	253	10.5	79.830	E
L6002	1	217	1438	53.50	0.00	520	0.417	213	5.9	38.460	D
R403w	1	427	1785	42.50	0.00	513	0.833	414	14.7	66.644	E

08:15 - 08:30

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	1	462	1139	53.50	0.00	412	1.123	399	27.9	122.737	F
R403e	1	321	1829	26.50	0.00	327	0.982	296	16.8	111.443	F
L6002	1	265	1379	53.50	0.00	499	0.532	260	7.3	42.167	D
R403w	1	523	1785	42.50	0.00	513	1.020	481	25.2	100.969	F

08:30 - 08:45

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	1	462	1139	53.50	0.00	412	1.123	410	41.0	229.016	F
R403e	1	321	1829	26.50	0.00	327	0.982	313	18.9	145.555	F
L6002	1	265	1379	53.50	0.00	499	0.532	265	7.3	42.285	D
R403w	1	523	1785	42.50	0.00	513	1.020	503	30.2	144.189	F

08:45 - 09:00

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	1	378	1250	53.50	0.00	452	0.836	439	25.7	256.063	F
R403e	1	263	1830	26.50	0.00	328	0.801	293	11.2	104.447	F
L6002	1	217	1438	53.50	0.00	520	0.417	222	5.9	38.547	D
R403w	1	427	1785	42.50	0.00	513	0.833	479	17.1	112.990	F

09:00 - 09:15

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	**1**	316	1327	53.50	0.00	480	0.659	382	9.1	72.446	E
R403e	**1**	220	1829	26.50	0.00	327	0.671	231	8.3	72.004	E
L6002	**1**	181	1479	53.50	0.00	535	0.339	185	4.9	36.483	D
R403w	**1**	358	1785	42.50	0.00	513	0.698	380	11.5	58.027	E

D3 - 2032 | With Dev | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix	Junction 1	HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Junction Delay (s)	Junction LOS
1	untitled	Signalised	206.47	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-100	Arm R408 - Traffic Stream 1	206.47	F

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D3	2032	With Dev	AM	ONE HOUR	07:45	09:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
R408		✓	420	100.000
R403e		✓	328	100.000
L6002		✓	250	100.000
R403w		✓	521	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		R408	R403e	L6002	R403w
From	R408	0	112	90	218
	R403e	46	0	81	201
	L6002	117	51	0	82
	R403w	205	244	72	0

Vehicle Mix

Heavy Vehicle %

		To			
		R408	R403e	L6002	R403w
From	R408	0	0	0	0
	R403e	0	0	0	0
	L6002	0	0	0	0
	R403w	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max DOS	Max Delay (s)	Max Q (PCU)	Max LOS
R408	1.13	285.90	45.2	F
R403e	1.08	268.38	33.9	F
L6002	0.54	51.02	9.4	D
R403w	1.05	178.04	41.7	F

Main Results for each time segment

07:45 - 08:00

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	1	316	1297	69.50	0.00	482	0.656	272	11.0	56.793	E
R403e	1	247	1810	34.50	0.00	334	0.740	200	11.6	87.606	F
L6002	1	188	1476	69.50	0.00	548	0.343	163	6.3	44.347	D
R403w	1	392	1774	57.50	0.00	545	0.719	332	15.2	66.812	E

08:00 - 08:15

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	1	378	1215	69.50	0.00	452	0.836	364	14.5	72.702	E
R403e	1	295	1810	34.50	0.00	334	0.883	280	15.4	105.619	F
L6002	1	225	1436	69.50	0.00	534	0.421	220	7.5	46.680	D
R403w	1	468	1773	57.50	0.00	545	0.859	451	19.5	79.678	E

08:15 - 08:30

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	1	462	1098	69.50	0.00	408	1.133	396	31.2	135.418	F
R403e	1	361	1810	34.50	0.00	334	1.082	318	26.3	151.780	F
L6002	1	275	1379	69.50	0.00	512	0.537	268	9.4	50.897	D
R403w	1	574	1774	57.50	0.00	545	1.052	518	33.3	118.752	F

08:30 - 08:45

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	1	462	1098	69.50	0.00	408	1.133	407	45.2	248.105	F
R403e	1	361	1810	34.50	0.00	334	1.082	331	33.9	234.374	F
L6002	1	275	1379	69.50	0.00	512	0.537	275	9.4	51.015	D
R403w	1	574	1774	57.50	0.00	545	1.052	540	41.7	178.039	F

08:45 - 09:00

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	1	378	1215	69.50	0.00	452	0.836	438	30.2	285.901	F
R403e	1	295	1810	34.50	0.00	334	0.883	324	26.6	268.384	F
L6002	1	225	1436	69.50	0.00	534	0.421	232	7.5	46.766	D
R403w	1	468	1773	57.50	0.00	545	0.859	531	26.0	171.814	F

09:00 - 09:15

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	**1**	316	1297	69.50	0.00	482	0.656	392	11.1	87.345	F
R403e	**1**	247	1810	34.50	0.00	334	0.740	305	11.9	133.944	F
L6002	**1**	188	1476	69.50	0.00	548	0.343	193	6.3	44.391	D
R403w	**1**	392	1774	57.50	0.00	545	0.719	435	15.3	71.804	E

D4 - 2025 | No Dev | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix	Junction 1	HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Junction Delay (s)	Junction LOS
1	untitled	Signalised	162.41	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-100	Arm R403e - Traffic Stream 1	162.41	F

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D4	2025	No Dev	PM	ONE HOUR	16:45	18:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
R408		✓	406	100.000
R403e		✓	391	100.000
L6002		✓	165	100.000
R403w		✓	386	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		R408	R403e	L6002	R403w
From	R408	0	41	63	302
	R403e	104	0	16	271
	L6002	93	27	0	45
	R403w	232	143	11	0

Vehicle Mix

Heavy Vehicle %

		To			
		R408	R403e	L6002	R403w
From	R408	0	0	0	0
	R403e	0	0	0	0
	L6002	0	0	0	0
	R403w	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max DOS	Max Delay (s)	Max Q (PCU)	Max LOS
R408	1.12	259.91	40.0	F
R403e	0.98	126.61	22.2	F
L6002	0.34	37.24	4.9	D
R403w	1.01	149.64	25.4	F

Main Results for each time segment

16:45 - 17:00

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	1	306	1350	49.50	0.00	464	0.659	271	8.8	48.441	D
R403e	1	294	1831	34.50	0.00	439	0.671	255	9.7	58.857	E
L6002	1	124	1574	49.50	0.00	541	0.230	111	3.3	34.846	C
R403w	1	291	1750	34.50	0.00	419	0.693	252	9.7	60.464	E

17:00 - 17:15

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	1	365	1271	49.50	0.00	437	0.835	353	11.8	63.127	E
R403e	1	352	1831	34.50	0.00	439	0.801	341	12.4	68.323	E
L6002	1	148	1565	49.50	0.00	538	0.276	146	4.0	35.777	D
R403w	1	347	1750	34.50	0.00	419	0.828	335	12.6	71.804	E

17:15 - 17:30

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	1	447	1157	49.50	0.00	398	1.124	385	27.2	123.961	F
R403e	1	430	1830	34.50	0.00	439	0.982	401	19.9	97.515	F
L6002	1	182	1547	49.50	0.00	532	0.342	178	4.9	37.224	D
R403w	1	425	1750	34.50	0.00	419	1.014	390	21.4	106.509	F

17:30 - 17:45

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	1	447	1157	49.50	0.00	398	1.124	396	40.0	231.614	F
R403e	1	430	1830	34.50	0.00	439	0.982	421	22.2	126.606	F
L6002	1	182	1547	49.50	0.00	532	0.342	182	4.9	37.240	D
R403w	1	425	1750	34.50	0.00	419	1.014	409	25.4	149.637	F

17:45 - 18:00

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	1	365	1271	49.50	0.00	437	0.835	424	25.2	259.907	F
R403e	1	352	1831	34.50	0.00	439	0.801	389	12.9	86.051	F
L6002	1	148	1565	49.50	0.00	538	0.276	152	4.0	35.795	D
R403w	1	347	1750	34.50	0.00	419	0.828	389	14.8	117.740	F

18:00 - 18:15

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	**1**	306	1350	49.50	0.00	464	0.659	371	8.8	74.698	E
R403e	**1**	294	1831	34.50	0.00	439	0.671	307	9.8	60.672	E
L6002	**1**	124	1574	49.50	0.00	541	0.230	127	3.3	34.859	C
R403w	**1**	291	1750	34.50	0.00	419	0.693	311	9.8	63.313	E

D5 - 2032 | No Dev | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix	Junction 1	HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Junction Delay (s)	Junction LOS
1	untitled	Signalised	236.18	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-100	Arm R408 - Traffic Stream 1	236.18	F

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D5	2032	No Dev	PM	ONE HOUR	16:45	18:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
R408		✓	447	100.000
R403e		✓	431	100.000
L6002		✓	182	100.000
R403w		✓	424	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		R408	R403e	L6002	R403w
From	R408	0	45	69	333
	R403e	115	0	18	298
	L6002	102	30	0	50
	R403w	255	157	12	0

Vehicle Mix

Heavy Vehicle %

		To			
		R408	R403e	L6002	R403w
From	R408	0	0	0	0
	R403e	0	0	0	0
	L6002	0	0	0	0
	R403w	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max DOS	Max Delay (s)	Max Q (PCU)	Max LOS
R408	1.17	366.46	55.6	F
R403e	1.05	198.92	39.1	F
L6002	0.34	48.06	7.3	D
R403w	1.06	217.45	39.9	F

Main Results for each time segment

16:45 - 17:00

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	1	337	1307	79.50	0.00	497	0.677	285	12.9	62.457	E
R403e	1	324	1830	51.50	0.00	451	0.720	264	15.2	83.152	F
L6002	1	137	1565	79.50	0.00	595	0.230	117	5.0	45.049	D
R403w	1	319	1750	52.50	0.00	440	0.726	259	15.0	83.256	F

17:00 - 17:15

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	1	402	1222	79.50	0.00	465	0.864	385	17.1	81.310	F
R403e	1	387	1831	51.50	0.00	451	0.859	370	19.5	97.193	F
L6002	1	164	1556	79.50	0.00	592	0.277	160	5.9	46.226	D
R403w	1	381	1750	52.50	0.00	440	0.867	364	19.3	98.277	F

17:15 - 17:30

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	1	492	1105	79.50	0.00	420	1.171	411	37.4	150.651	F
R403e	1	475	1830	51.50	0.00	451	1.052	425	31.9	136.963	F
L6002	1	200	1537	79.50	0.00	585	0.343	195	7.3	48.046	D
R403w	1	467	1750	52.50	0.00	440	1.062	416	32.0	139.760	F

17:30 - 17:45

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	1	492	1105	79.50	0.00	420	1.171	419	55.6	286.250	F
R403e	1	475	1830	51.50	0.00	451	1.052	446	39.1	198.918	F
L6002	1	200	1537	79.50	0.00	585	0.343	200	7.3	48.059	D
R403w	1	467	1750	52.50	0.00	440	1.062	435	39.9	207.615	F

17:45 - 18:00

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	1	402	1222	79.50	0.00	465	0.864	452	43.1	366.463	F
R403e	1	387	1831	51.50	0.00	451	0.859	438	26.5	198.004	F
L6002	1	164	1556	79.50	0.00	592	0.277	169	5.9	46.240	D
R403w	1	381	1750	52.50	0.00	440	0.867	428	28.3	217.455	F

18:00 - 18:15

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	**1**	337	1307	79.50	0.00	497	0.677	457	13.0	149.977	F
R403e	**1**	324	1830	51.50	0.00	451	0.720	369	15.4	91.071	F
L6002	**1**	137	1565	79.50	0.00	595	0.230	141	5.0	45.059	D
R403w	**1**	319	1750	52.50	0.00	440	0.726	372	15.1	97.953	F

D6 - 2032 | With Dev | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix	Junction 1	HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Junction Delay (s)	Junction LOS
1	untitled	Signalised	310.39	F

Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-100	Arm R408 - Traffic Stream 1	310.39	F

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D6	2032	With Dev	PM	ONE HOUR	16:45	18:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
R408		✓	447	100.000
R403e		✓	431	100.000
L6002		✓	264	100.000
R403w		✓	433	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		R408	R403e	L6002	R403w
From	R408	0	45	69	333
	R403e	115	0	18	298
	L6002	102	66	0	96
	R403w	255	157	21	0

Vehicle Mix

Heavy Vehicle %

		To			
		R408	R403e	L6002	R403w
From	R408	0	0	0	0
	R403e	0	0	0	0
	L6002	0	0	0	0
	R403w	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max DOS	Max Delay (s)	Max Q (PCU)	Max LOS
R408	1.22	466.89	67.9	F
R403e	1.09	309.99	53.3	F
L6002	0.46	64.59	14.2	E
R403w	1.08	299.11	52.4	F

Main Results for each time segment

16:45 - 17:00

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	1	337	1194	127.50	0.00	507	0.663	269	16.9	76.891	E
R403e	1	324	1830	71.50	0.00	436	0.744	237	21.8	118.363	F
L6002	1	199	1521	127.50	0.00	646	0.308	160	9.6	58.522	E
R403w	1	326	1748	75.50	0.00	440	0.741	240	21.5	115.593	F

17:00 - 17:15

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	1	402	1087	127.50	0.00	462	0.870	381	22.1	100.847	F
R403e	1	387	1831	71.50	0.00	436	0.888	364	27.8	136.633	F
L6002	1	237	1508	127.50	0.00	641	0.370	230	11.5	60.822	E
R403w	1	389	1748	75.50	0.00	440	0.885	366	27.4	133.708	F

17:15 - 17:30

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	1	492	949	127.50	0.00	403	1.220	398	45.5	180.236	F
R403e	1	475	1830	71.50	0.00	436	1.088	414	43.0	180.446	F
L6002	1	291	1485	127.50	0.00	631	0.461	280	14.2	64.554	E
R403w	1	477	1748	75.50	0.00	440	1.084	417	42.4	177.251	F

17:30 - 17:45

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	1	492	949	127.50	0.00	403	1.220	403	67.9	345.369	F
R403e	1	475	1830	71.50	0.00	436	1.088	433	53.3	263.760	F
L6002	1	291	1485	127.50	0.00	631	0.461	291	14.2	64.590	E
R403w	1	477	1748	75.50	0.00	440	1.084	437	52.4	257.920	F

17:45 - 18:00

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	1	402	1087	127.50	0.00	462	0.870	445	57.1	466.885	F
R403e	1	387	1831	71.50	0.00	436	0.888	426	43.5	309.995	F
L6002	1	237	1508	127.50	0.00	641	0.370	248	11.5	60.857	E
R403w	1	389	1748	75.50	0.00	440	0.885	430	42.3	299.106	F

18:00 - 18:15

Arm	Traffic Stream	Total Demand (PCU/hr)	Calculated saturation flow (PCU/hr)	Effective green time (s)	NEEG (s)	Capacity (PCU/hr)	DOS	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Signalised level of service
R408	**1**	337	1194	127.50	0.00	507	0.663	497	17.0	223.724	F
R403e	**1**	324	1830	71.50	0.00	436	0.744	410	22.1	163.543	F
L6002	**1**	199	1521	127.50	0.00	646	0.308	206	9.6	58.543	E
R403w	**1**	326	1748	75.50	0.00	440	0.741	408	21.8	154.140	F