

Appendix Y

Y - MITIGATION DRAWINGS

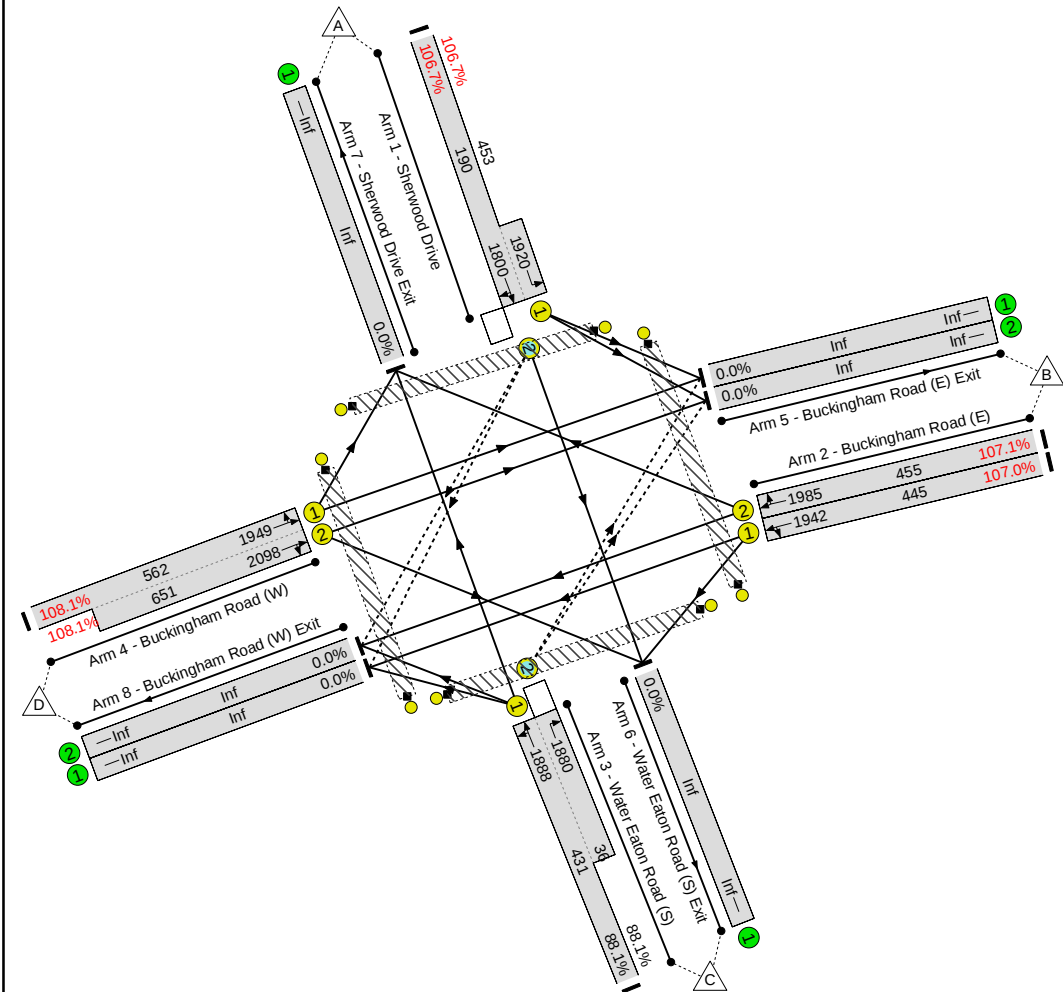


Junction 1 : Sherwood Drive Water Eaton B4034 Roundabout

CAD

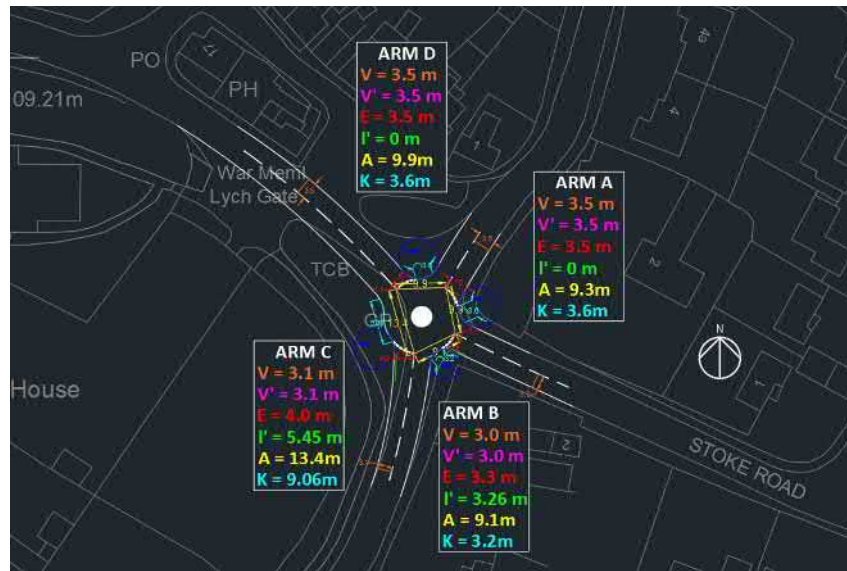


LinSig Model

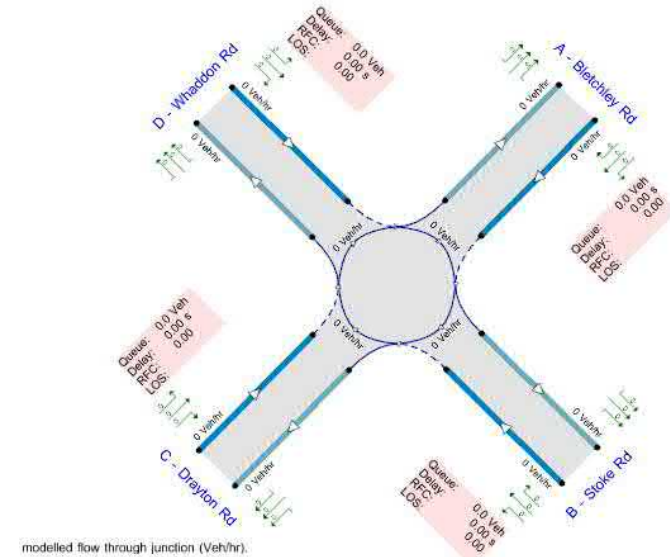


Junction 3 : Bletchley Road Stoke Road Drayton Road Whaddon Road

CAD



Junction 9 Model



Measurements

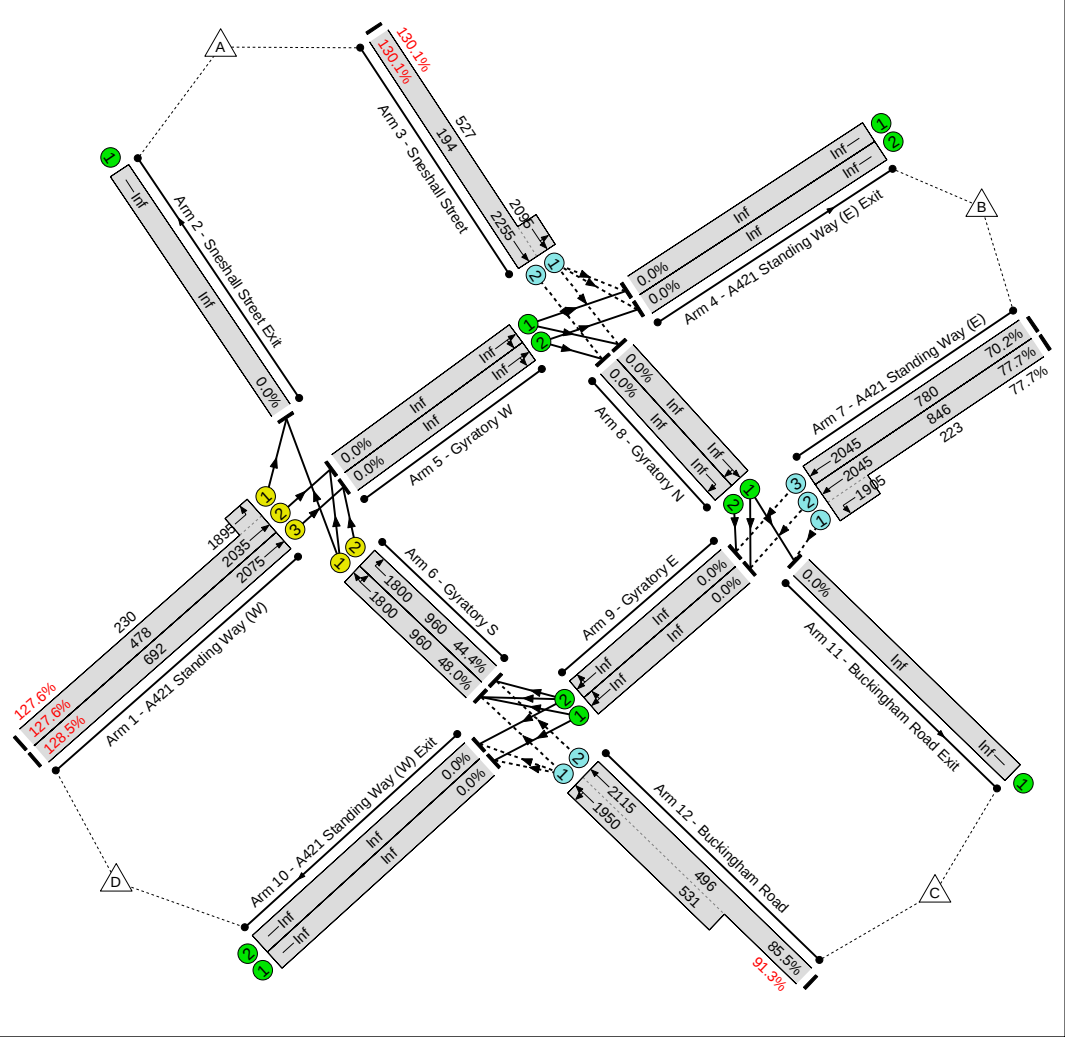
Junction No.	Name	Arm	V - Approach road half-width (m)	Minimum approach road half-width (m)	E - Entry width (m)	I - Effective flare length (m)	A-Distance to next arm (m)	k-Entry corner kerb line distance (m)
3	Bletchley Road Stoke Road Drayton Road Whaddon Road	A-Bletchley Rd	3.5	3.5	3.5	0	9.3	3.6
		B-Stoke Rd	3	3	3.3	3.3	9.1	3.2
		C-Drayton Rd	3.1	3.1	4	5.5	13.4	9.06
		D-Whaddon Rd	3.5	3.5	3.5	0	9.9	3.6

Junction 5 : Tattenhoe Roundabout

CAD

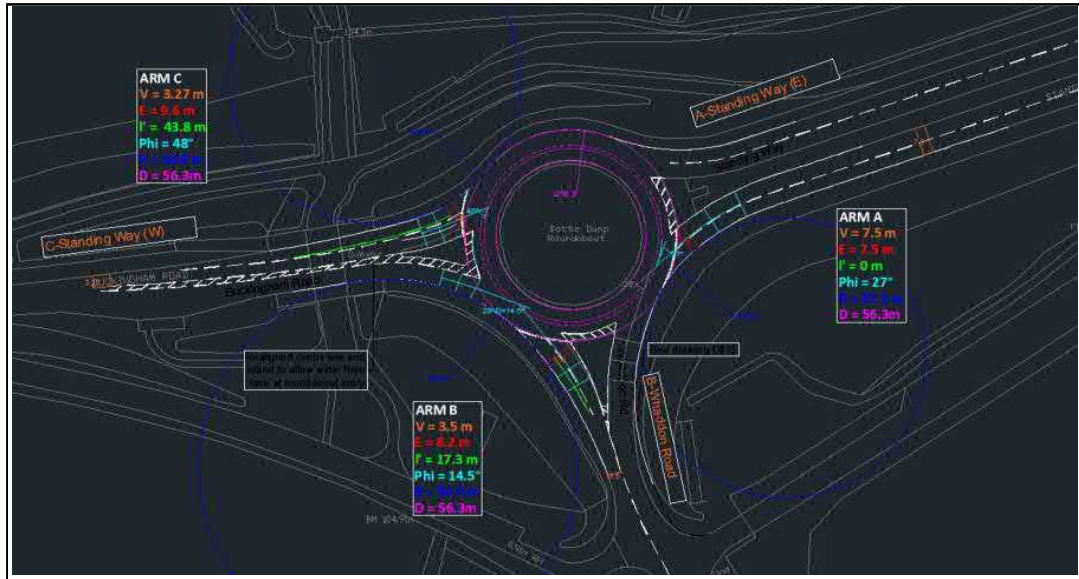


LinSig Model

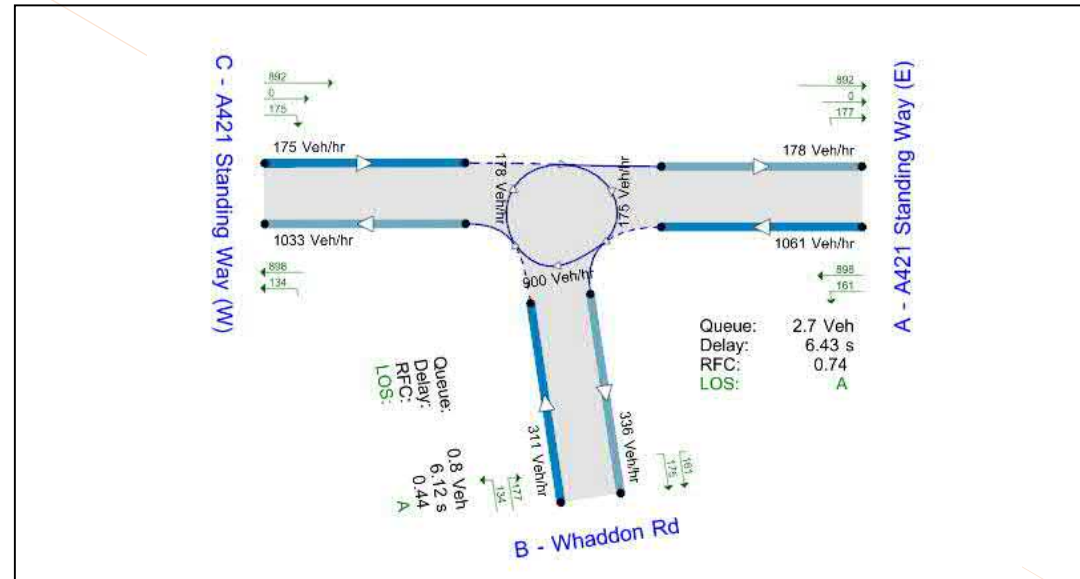


Junction 6 : Bottledump Roundabout

CAD



Junction 9 Model

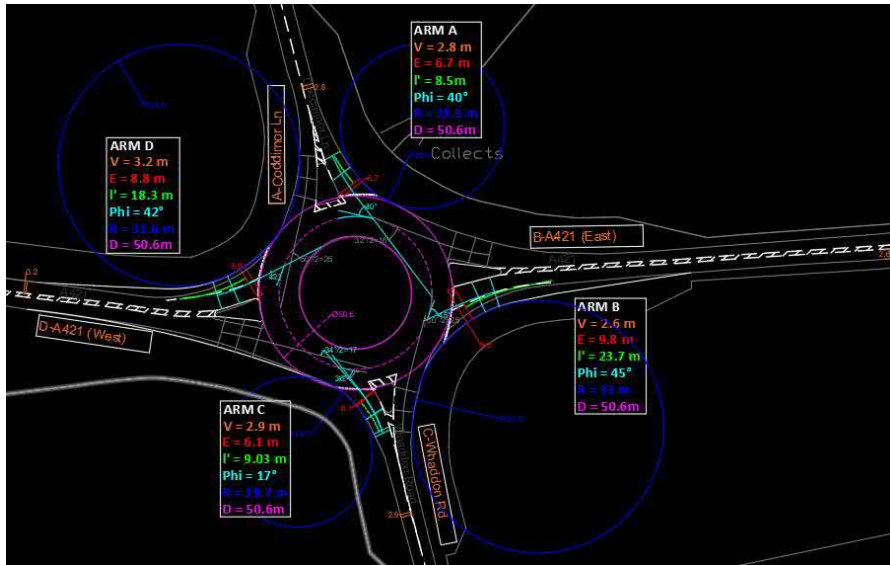


Measurements

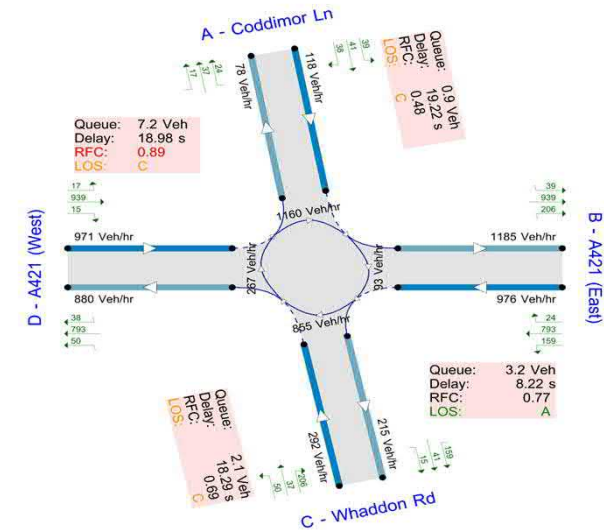
Junction No.	Name	Arms	V - Approach road half-width (m)	E - Entry width (m)	I - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)
6	Bottledump Roundabout	A-Standing Way (E)	7.5	7.5	0	37.2	56.3	27
		B-Whaddon Road	3.5	8.2	17.3	50	56.3	14.5
		C-Standing Way (W)	3.27	9.6	43.8	38.6	56.3	48

Junction 7 : Whaddon Crossroads

CAD



Junction 9 Model



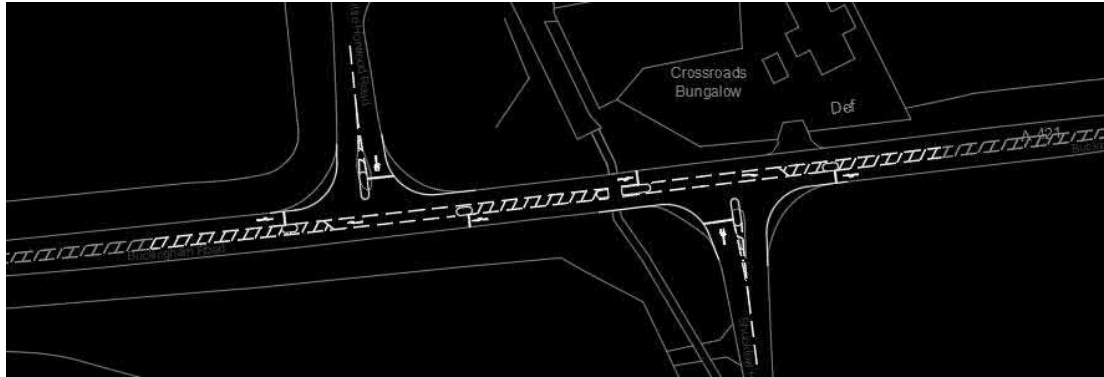
Measurements

Flow show modelled flow through junction (veh/hr)
Time Segment: 07:30-07:45

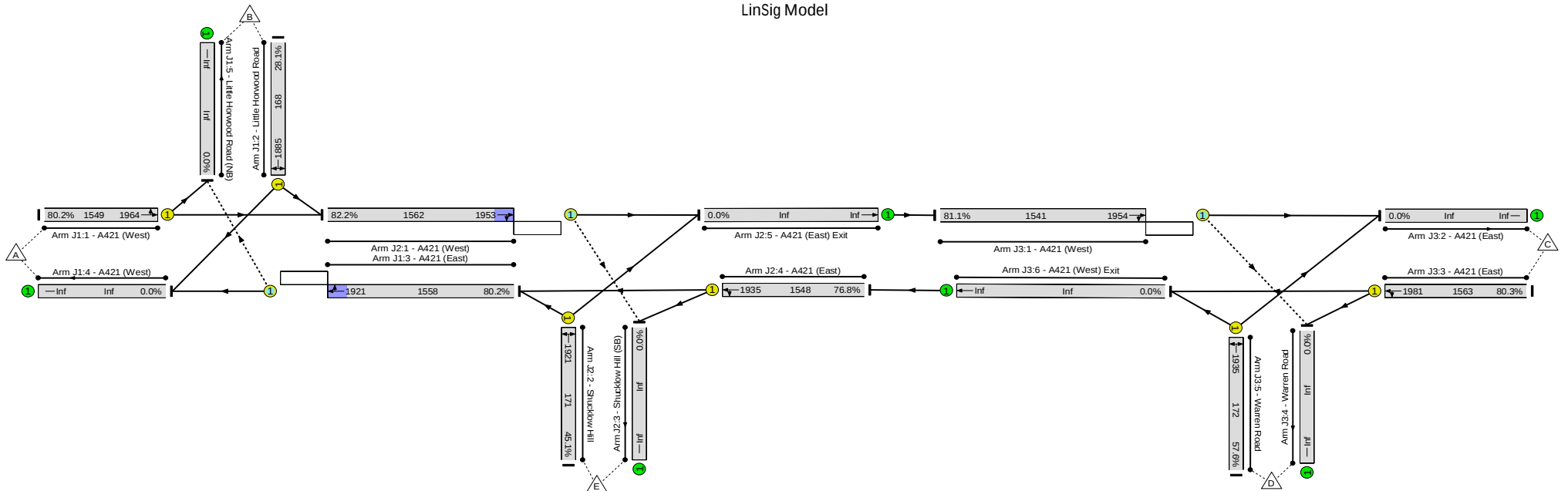
Junction No.	Name	Arms	V - Approach road half-width (m)	E - Entry width (m)	I - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)
7	Whaddon Crossroads	A-Coddemor Ln	2.8	6.7	8.5	21.5	50.6	40
		B-A421 (East)	2.6	9.8	23.7	33	50.6	45
		C-Whaddon Rd.	2.9	6.1	9	19.7	50.6	17
		D-A421 (West)	3.2	8.8	18.3	31.6	50.6	42

Junction 8 & 9 : Warren Road A421_A421 Shucklow Hill Little Horwood Road

CAD



LinSig Model

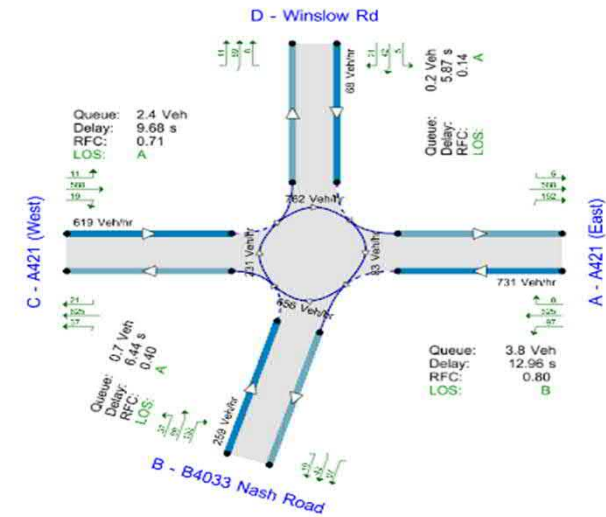


Junction 10 : A421 Nash Rd Windslow

CAD



Junction 9 Model



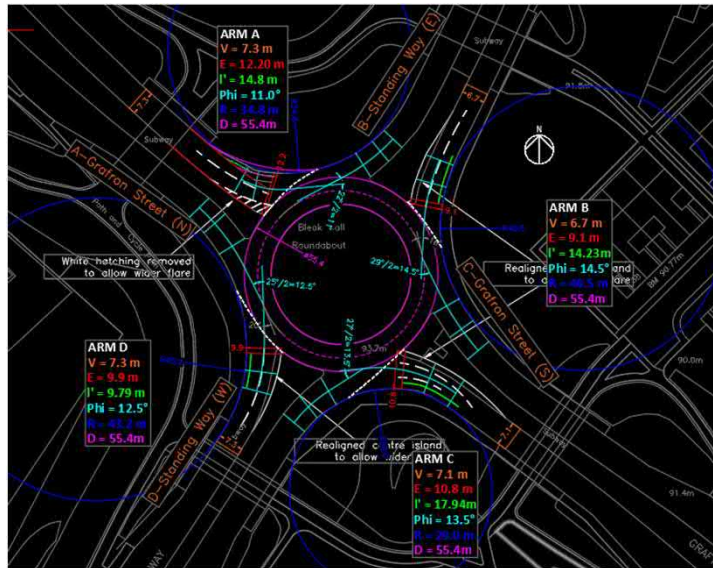
v modelled flow through junction (Veh/hr).

Measurements

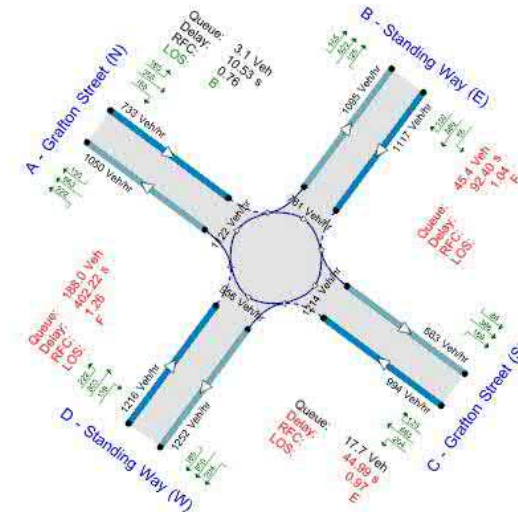
Junction No.	Name	Arms	V - Approach road half-width (m)	E - Entry width (m)	I - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)
10	A421 Nash Rd Windslow	A - A421 (East)	4	9.9	15.9	34.8	50.1	49
		B - B4033 Nash Road	3.4	6.6	18.3	13.9	50.1	45
		C - A421 (West)	4.7	7.8	7.5	21.6	50.1	34
		D - Winslow Rd	3.4	7.2	6.7	20.1	50.1	42

Junction 15 : Bleak Hall Roundabout

CAD



Junction 9 Model



Measurements

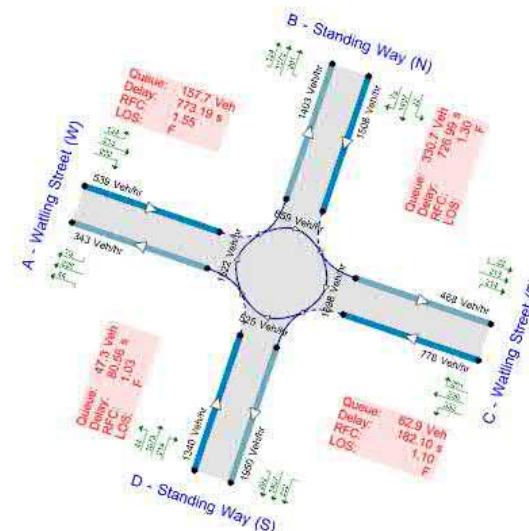
Junction No.	Name	Arms	V - Approach road half-width (m)	E - Entry width (m)	I - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)
15	Bleak Hall Roundabout	A - Grafton Street (N)	7.30	12.20	14.8	34.8	55.4	11.0
		B - Standing Way (E)	6.70	9.10	14.2	40.5	55.4	14.5
		C - Grafton Street (S)	7.10	10.80	17.9	29.0	55.4	13.5
		D - Standing Way (W)	7.30	9.90	9.8	43.2	55.4	12.5

Junction 16 : Elfield Park Roundabout

CAD



Junction 9 Model

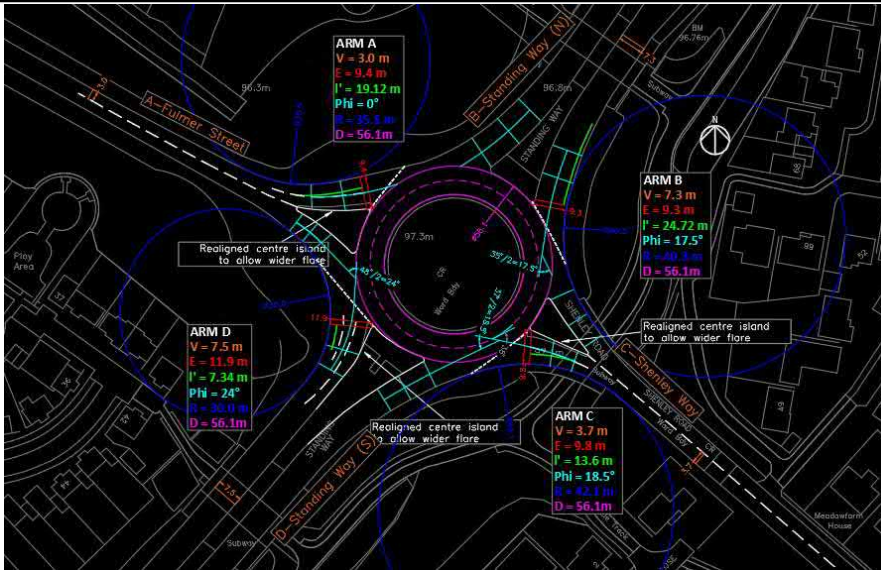


Measurements

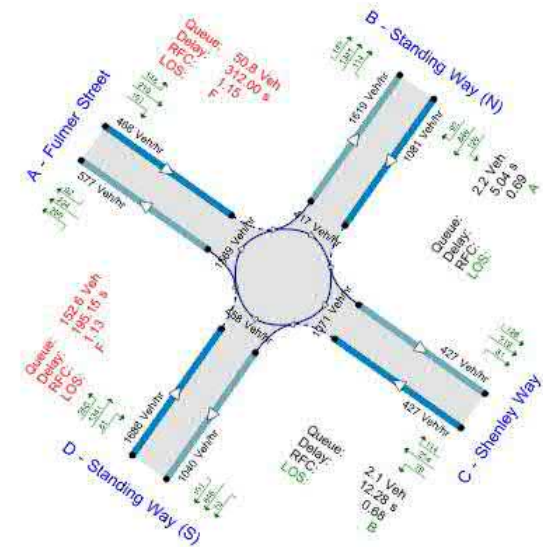
Junction No.	Name	Arms	V - Approach road half-width (m)	E - Entry width (m)	I - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)
16	Elfield Park Roundabout	A - Watling Street (W)	4.60	9.10	9.6	31.0	56.1	14.0
		B - Standing Way (N)	7.30	10.50	9.3	26.9	56.1	18.5
		C - Watling Street (E)	4.90	10.60	12.3	48.9	56.1	4.0
		D - Standing Way (S)	7.50	11.00	43.3	23.8	56.1	16.5

Junction 17 : Emerson Roundabout

CAD



Junction 9 Model

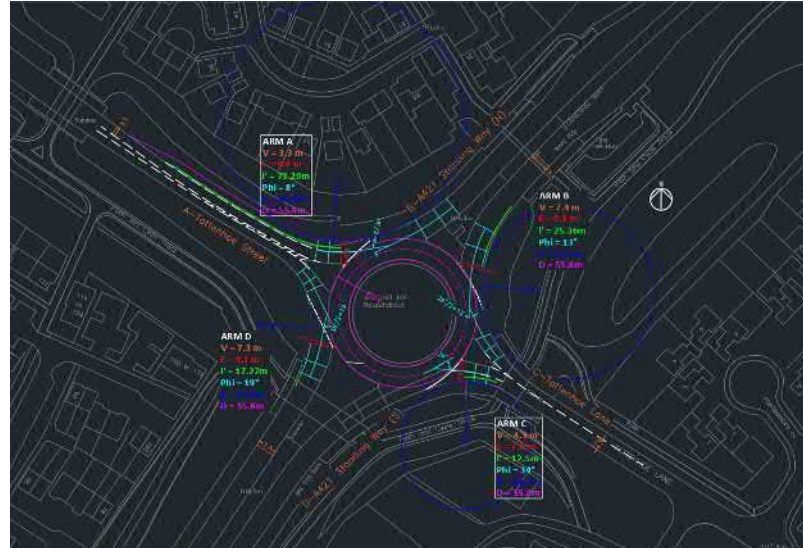


Measurements

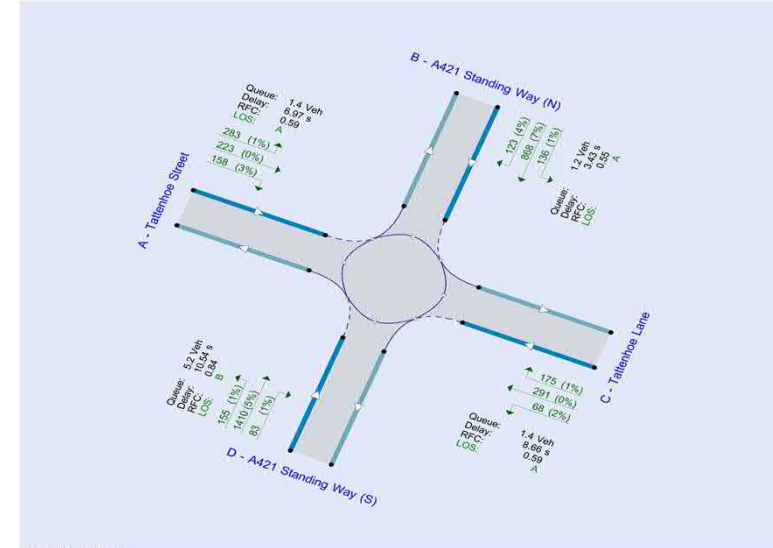
Junction No.	Name	Arms	V - Approach road half-width (m)	E - Entry width (m)	I - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)
17	Emerson Roundabout	A - Fulmer Street	3.00	9.40	19.1	35.5	56.1	0.0
		B - Standing Way (N)	7.30	9.30	24.7	40.3	56.1	17.5
		C - Shenley Way	3.70	9.80	13.6	42.1	56.1	18.5
		D - Standing Way (S)	7.50	11.90	7.3	30.0	56.1	24.0

Junction 18 : Windmill Hill Roundabout

CAD



Junction 9 Model



Measurements

Junction No.	Name	Arms	V - Approach road half-width (m)	E - Entry width (m)	I - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)
18	Windmill Hill Roundabout	A-Tattenhoe Street	3.30	9.80	73.3	45.4	55.8	8.0
		B-A421 Standing Way (N)	7.40	9.10	25.4	32.5	55.8	13.0
		C-Tattenhoe Lane	4.30	7.60	12.5	24.2	55.8	34.0
		D-A421 Standing Way (S)	7.30	9.10	17.3	43.4	55.8	19.0