

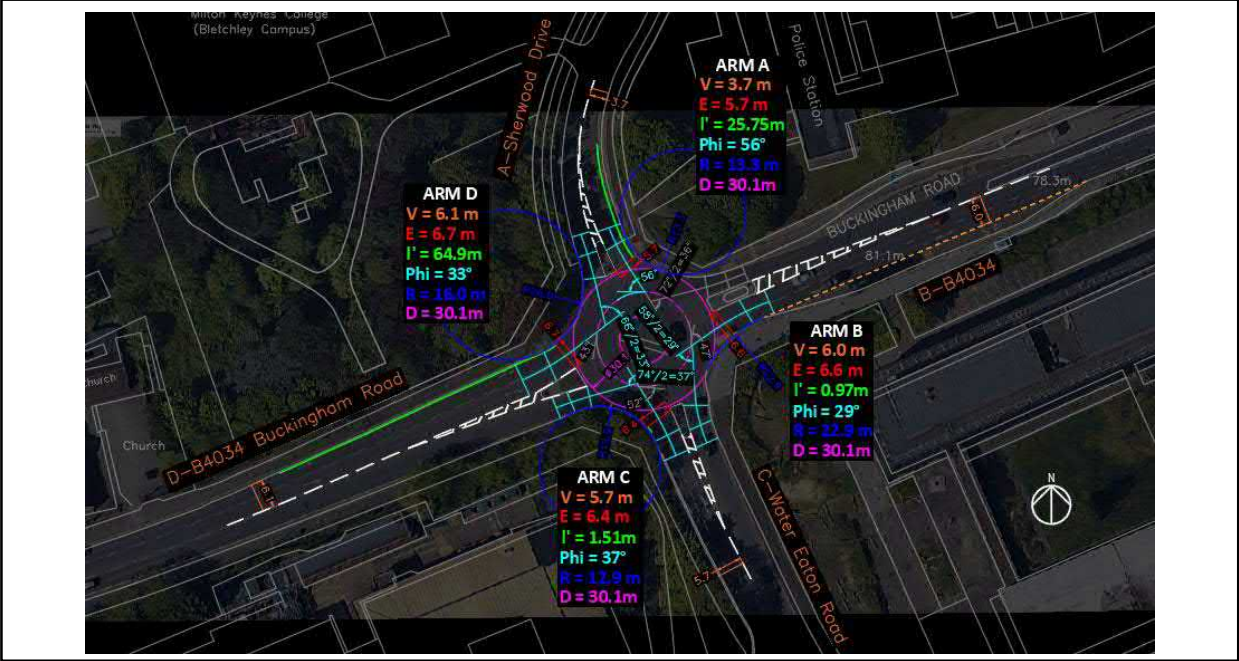
# Appendix V

V - JUNCTION GEOMETRY  
MEASUREMENTS

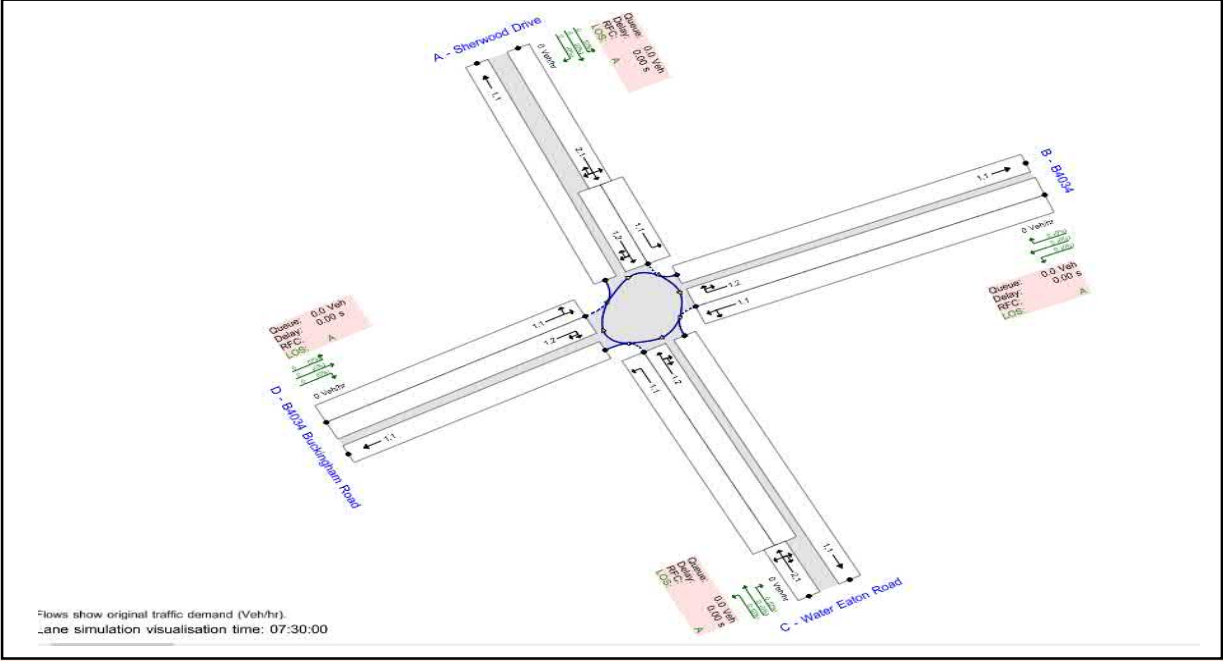


Junction 1 : Buckingham Road / Sherwood Drive / Water Eaton Road

CAD



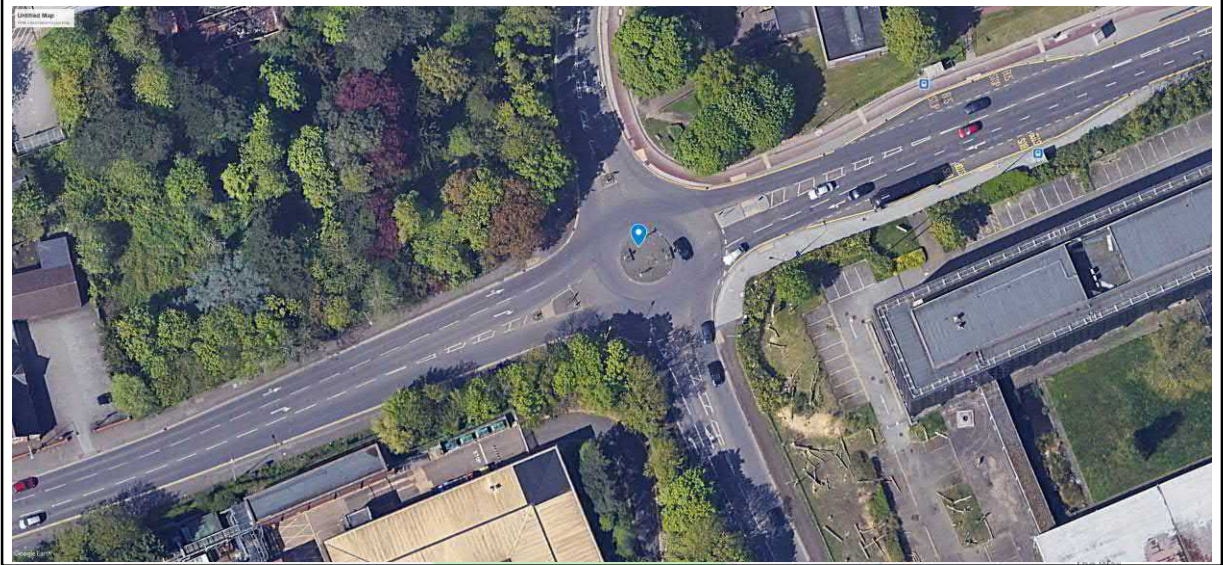
Junction 9 Model



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)
1	Buckingham Road / Sherwood Drive / Water Eaton Road	A-Sherwood Drive	3.7	5.7	25.75	13.3	30.1	56
		B-B4034	6	6.6	0.97	22.9	30.1	29
		C-Water Eaton Road	5.7	6.4	1.51	12.9	30.1	37
		D-B4034 Buckingham Road	6.1	6.7	64.9	16	30.1	33

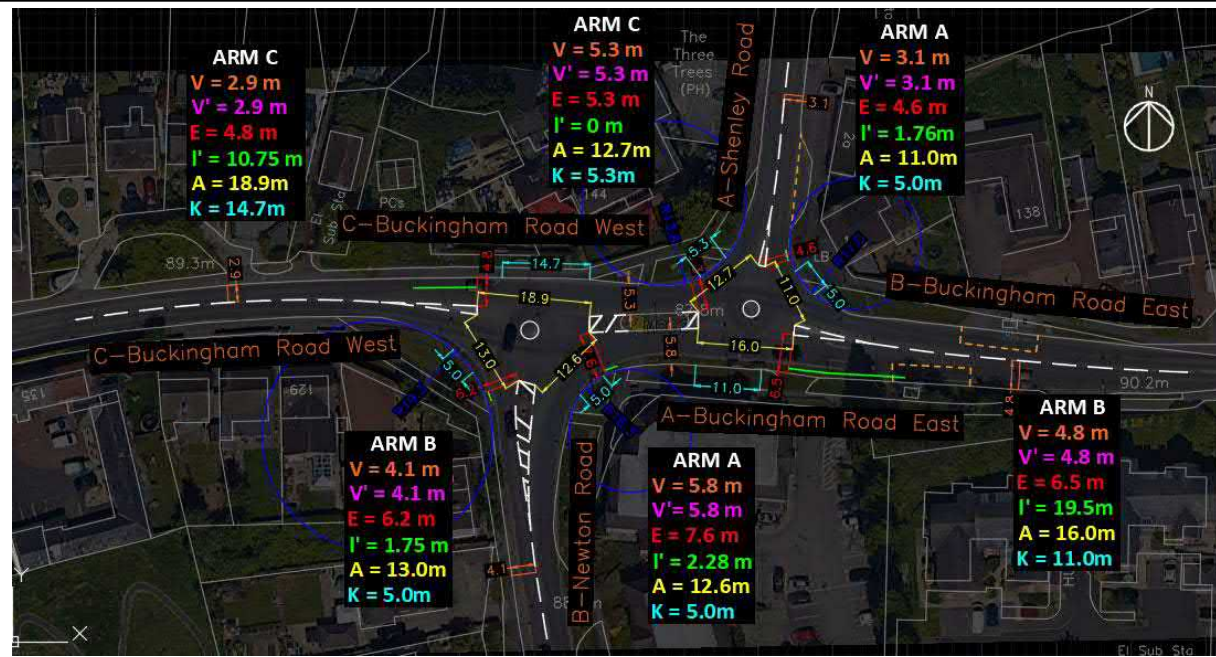
Satellite View





# Junction 2

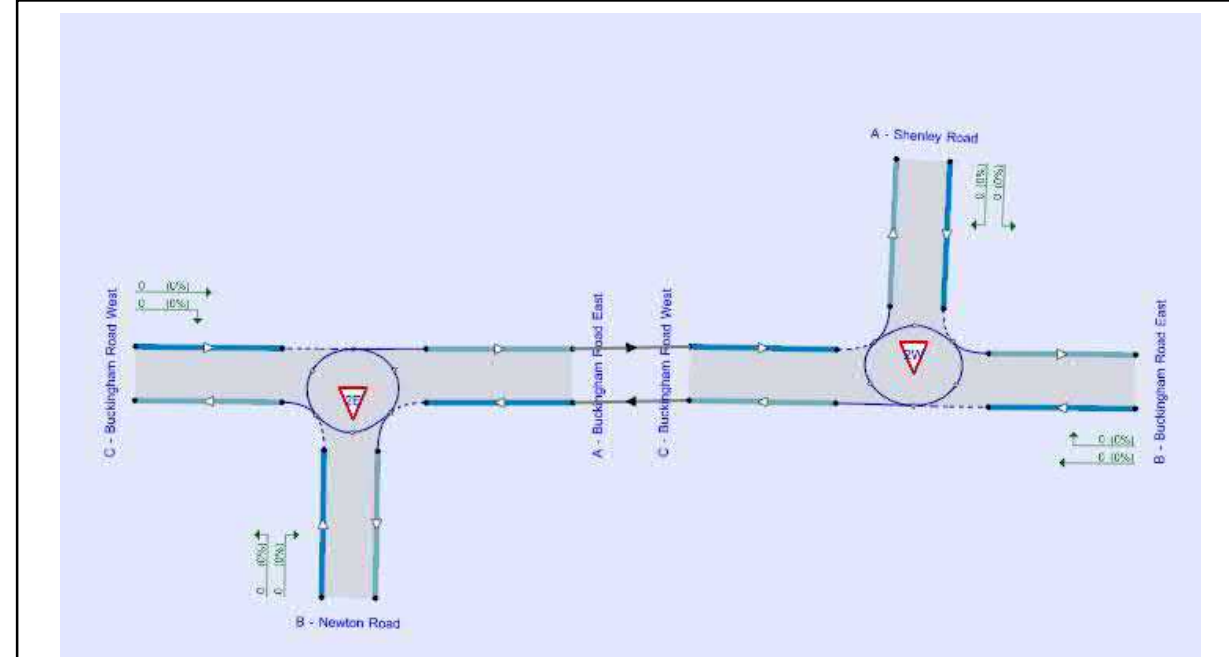
CAD



Measurements

Junction No.	Name	Arms	V - Approach road half-width (m)	V' - 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)
2	1 - Left	A-Buckingham Road East	5.8	5.8	7.6	2.28	12.6	5
		B-Newton Road	4.1	4.1	6.2	1.75	13	5
		C-Buckingham Road West	2.9	2.9	4.8	10.75	18.9	14.7
	2 - Right	A-Shenley Road	3.1	3.1	4.6	1.76	11	5
		B-Buckingham Road East	4.8	4.8	6.5	19.5	16	11
		C-Buckingham Road West	5.3	5.3	5.3	0	12.7	5.3

Junction 9 Model



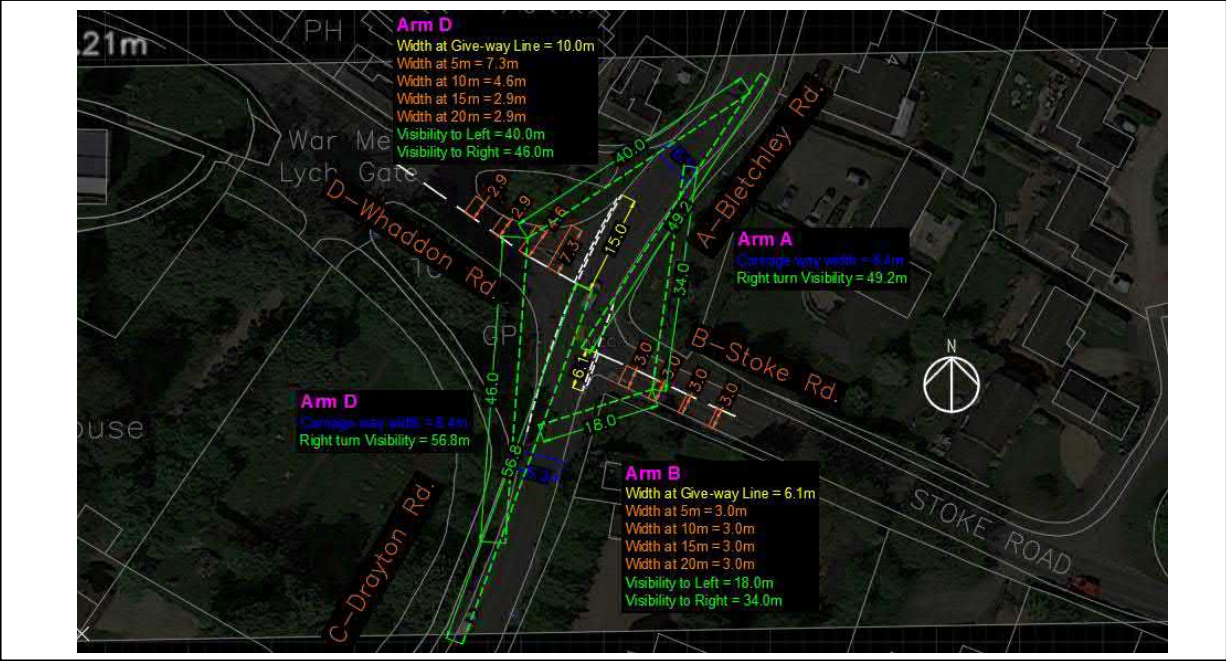
Satellite View



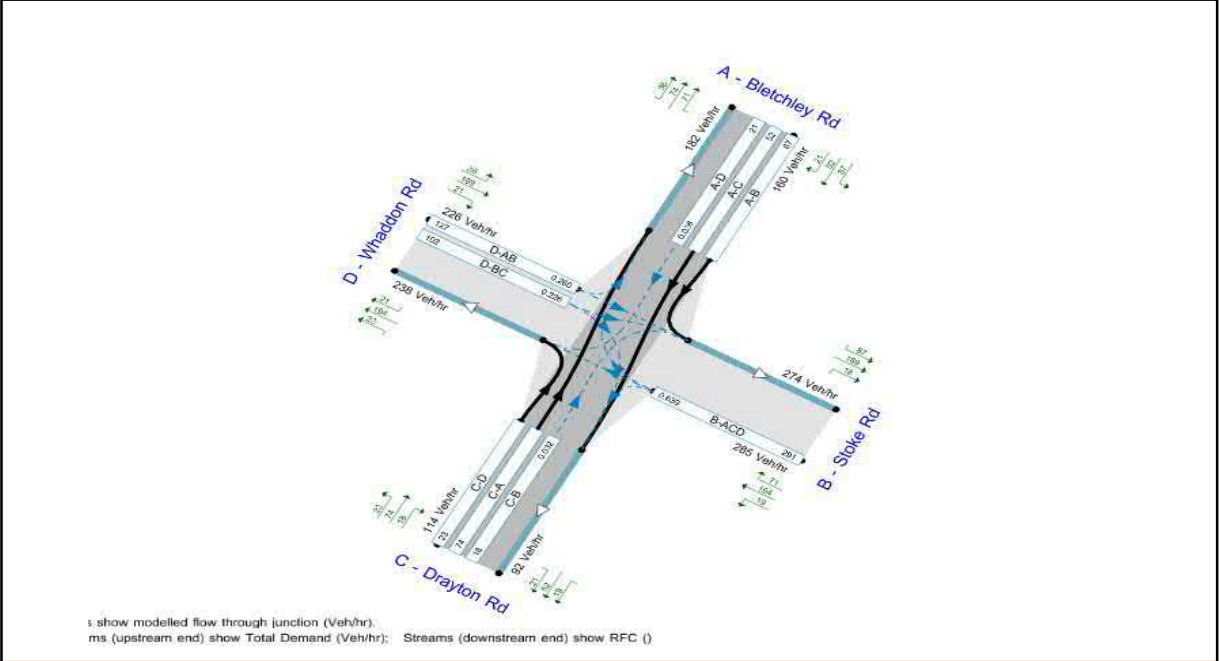


Junction 3 : Bletchley Road Stoke Road Drayton Road Whaddon Road

CAD



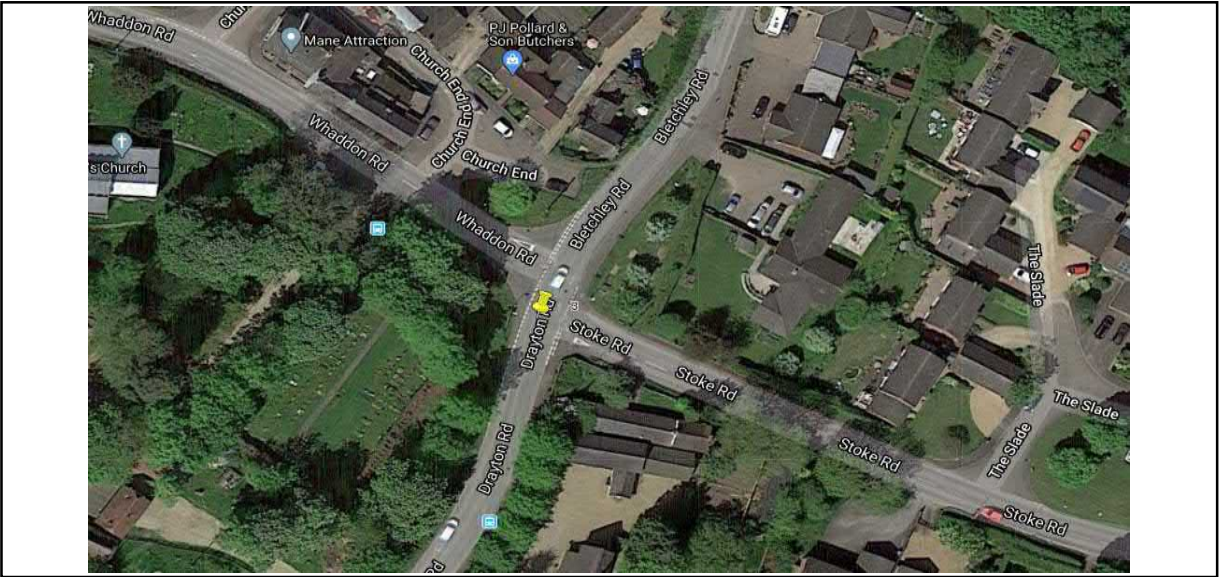
Junction 9 Model



Measurements

Major Arm Measurements						Arm	Name
Opposite Arm B			Opposite Arm D			A	Bletchley Rd.
Width carriage	6.4	m	Width carriage	6.4	m	B	Stoke Rd.
kerbed central reserve	-	m	kerbed central reserve	-	m	C	Drayton Rd.
Right turners into B			Right turners into D			D	Whaddon Rd.
Visibility along A fo C-B turn	49.2	m	Visibility along A fo C-B turn	56.8	m		
Right turn bay for C-B traffic	-	m	Right turn bay for C-B traffic	-	m		
C-B traffic Blocks C-A traffic	-	PCU	C-B traffic Blocks C-A traffic	-	PCU		
Minor Arm Measurements							
Main carriageway opp. Arm B			Main carriageway opp. Arm B				
Visibility to Left	18	m	Visibility to Left	40	m		
Visibility to Right	34	m	Visibility to Right	46	m		
Minor arm type	Single Lane		Minor arm type	Single Lane			
Width at give way	6.1	m	Width at give way	15	m		
Width at give way Width at 5 m	3	m	Width at give way Width at 5 m	7.3	m		
Width at give way Width at 10 m	3	m	Width at give way Width at 10 m	4.6	m		
Width at give way Width at 15 m	3	m	Width at give way Width at 15 m	2.9	m		
Width at give way Width at 20 m	3	m	Width at give way Width at 20 m	2.9	m		

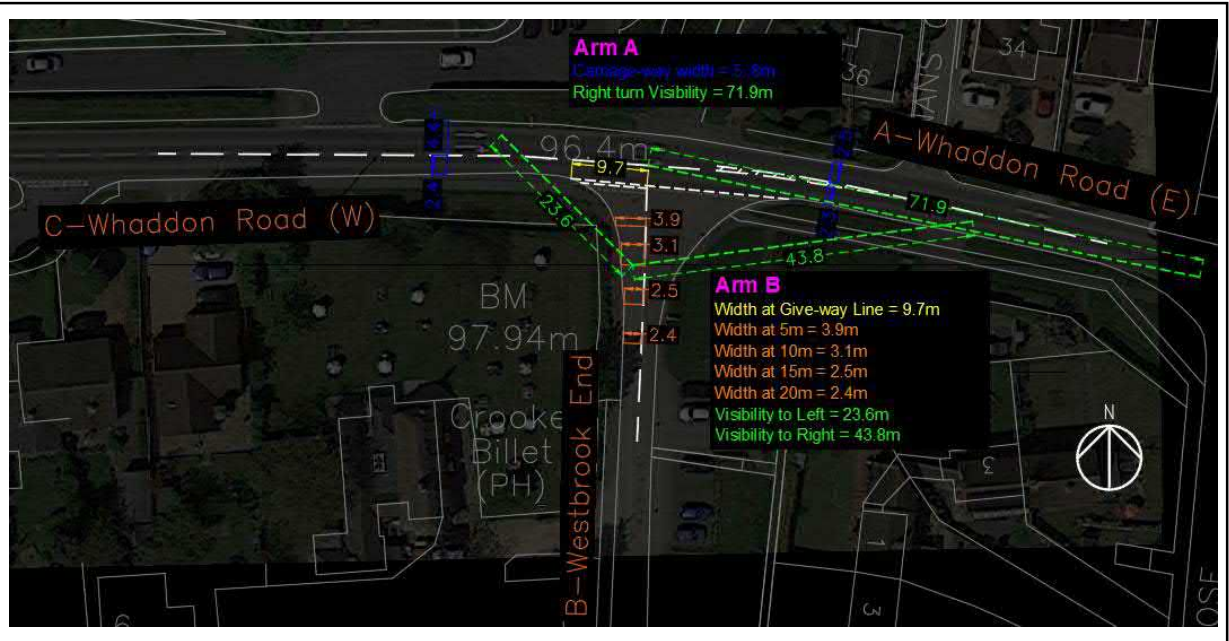
Satellite View



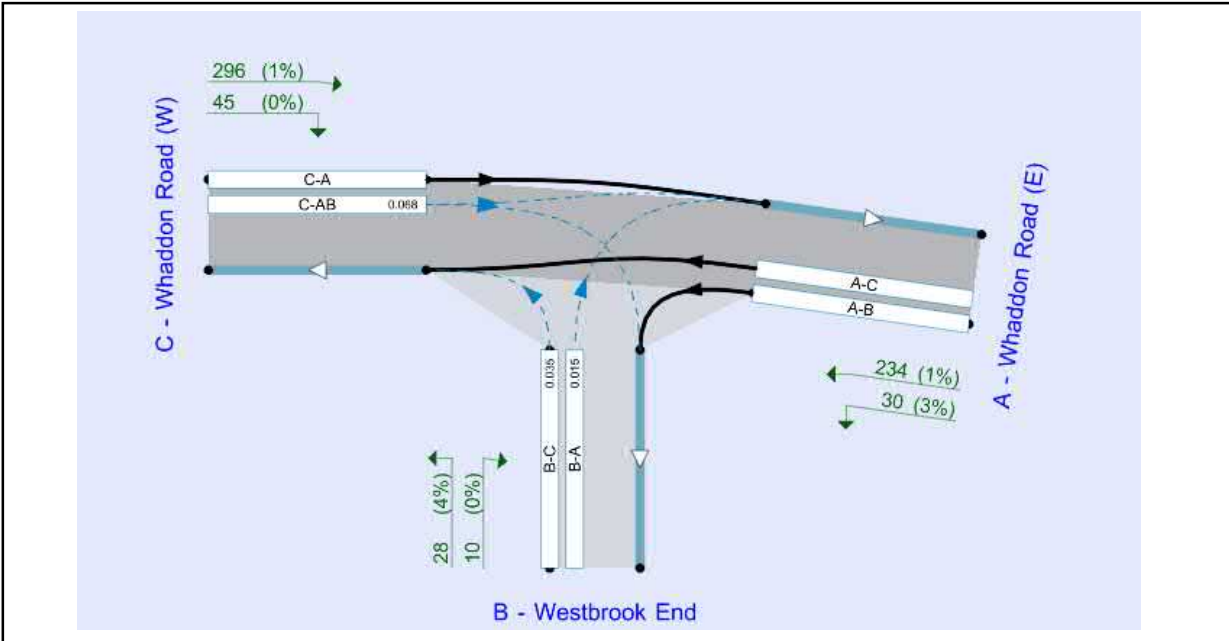


# Junction 4 : Whaddon Road Westbrook End

CAD



Junction 9 Model



Measurements

Major Arm Measurements			
Main carriageway Opposite Arm B			
Width carriage	5.8	m	
kerbed central reserve	-	m	
Right turners into B			
Visibility along A fo C-B turn	71.9	m	
Right turn bay for C-B traffic	-	m	
C-B traffic Blocks C-A traffic	-	PCU	

Arm	Name
A	Whaddon Road [E]
B	Westbrook End
C	Whaddon Road [W]

Minor Arm Measurements			
Opposite Arm A			
Visibility to Left	23.6	m	
Visibility to Right	43.8	m	
Minor arm type	One Lane plus Flare		
Width at give way	9.7	m	
Width at give way Width at 5 m	3.9	m	
Width at give way Width at 10 m	3.1	m	
Width at give way Width at 15 m	2.5	m	
Width at give way Width at 20 m	2.4	m	

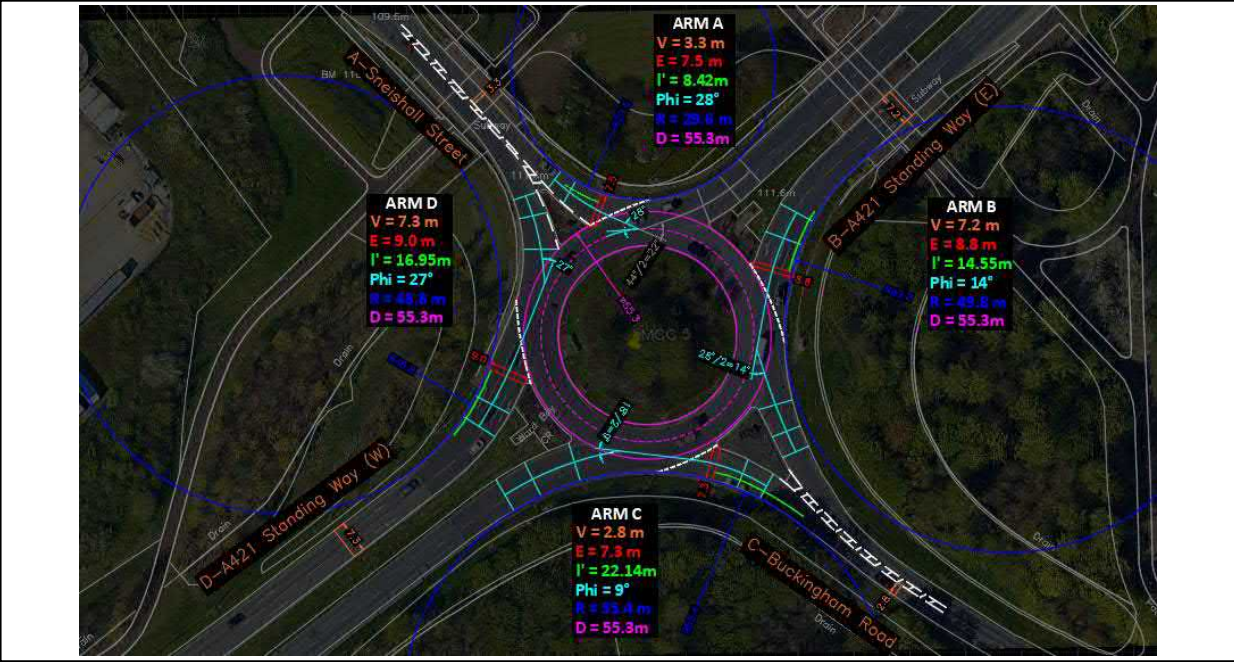
Satellite View





# Junction 5 : Tattenhoe Roundabout

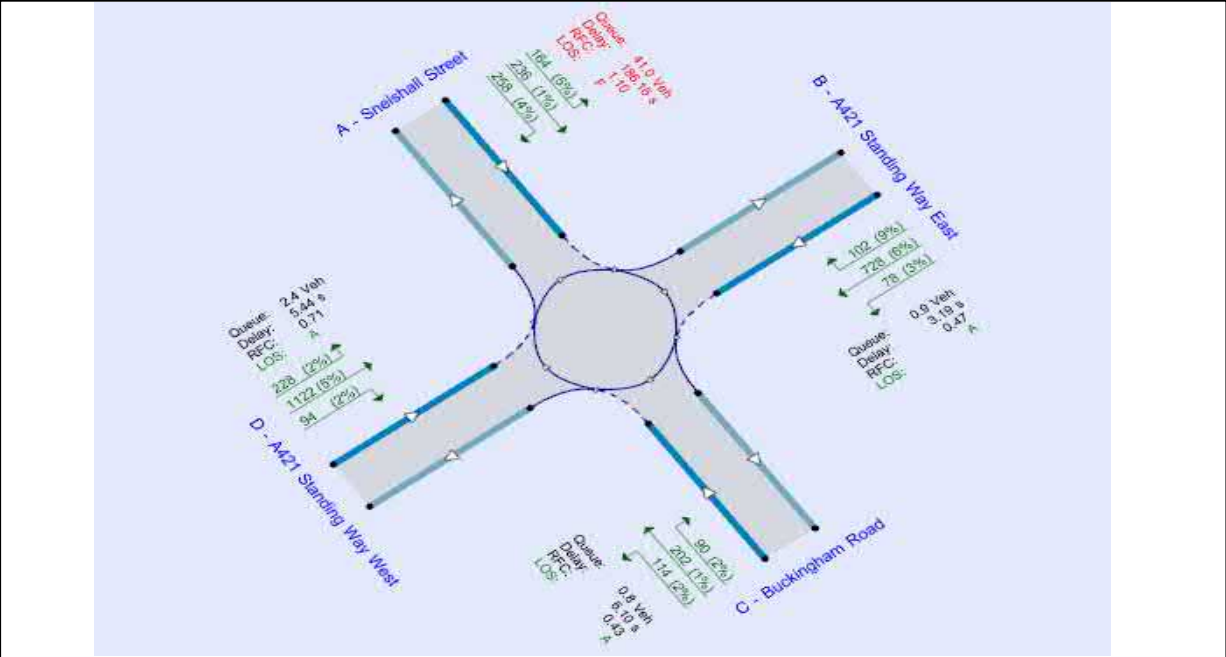
CAD



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)
5	Tattenhoe Roundabout	A-Sneishall Street	3.3	7.5	8.42	29.6	55.3	28
		B-A421 Standing Way (E)	7.2	8.8	14.55	49.8	55.3	14
		C-Buckingham Road	2.8	7.3	22.1	55.4	55.3	9
		D-A421 Standing Way (W)	7.3	9	16.95	48.8	55.3	27

Junction 9 Model



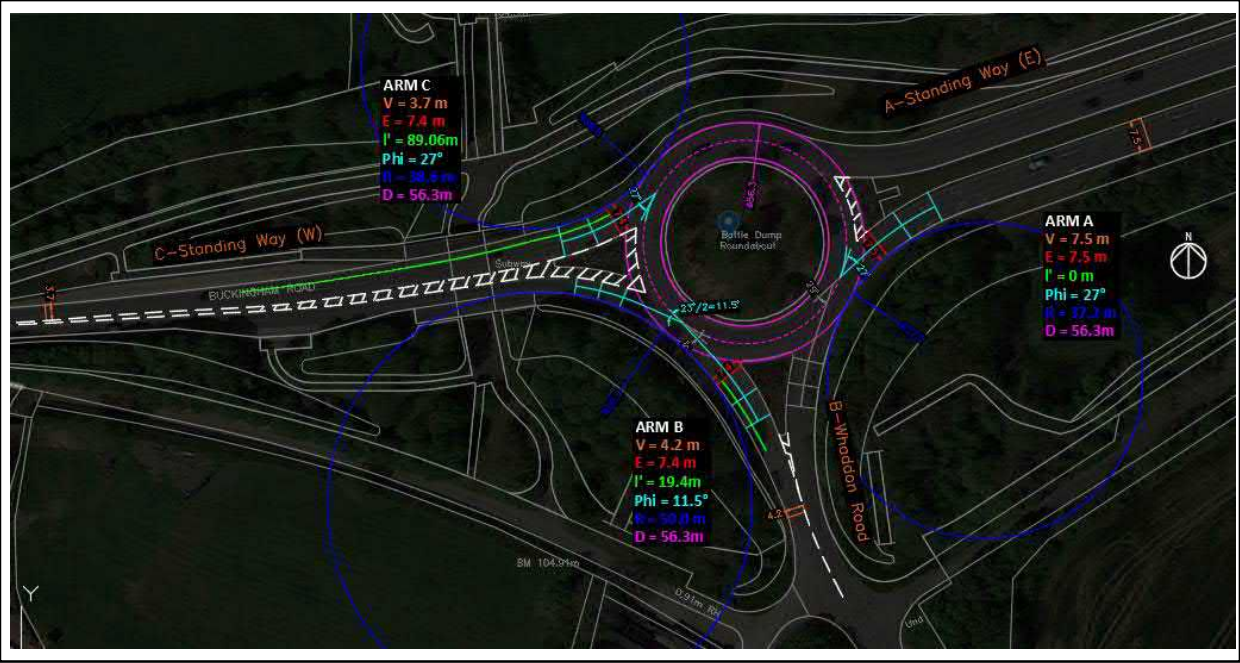
Satellite View





# Junction 6 : Bottledump Roundabout

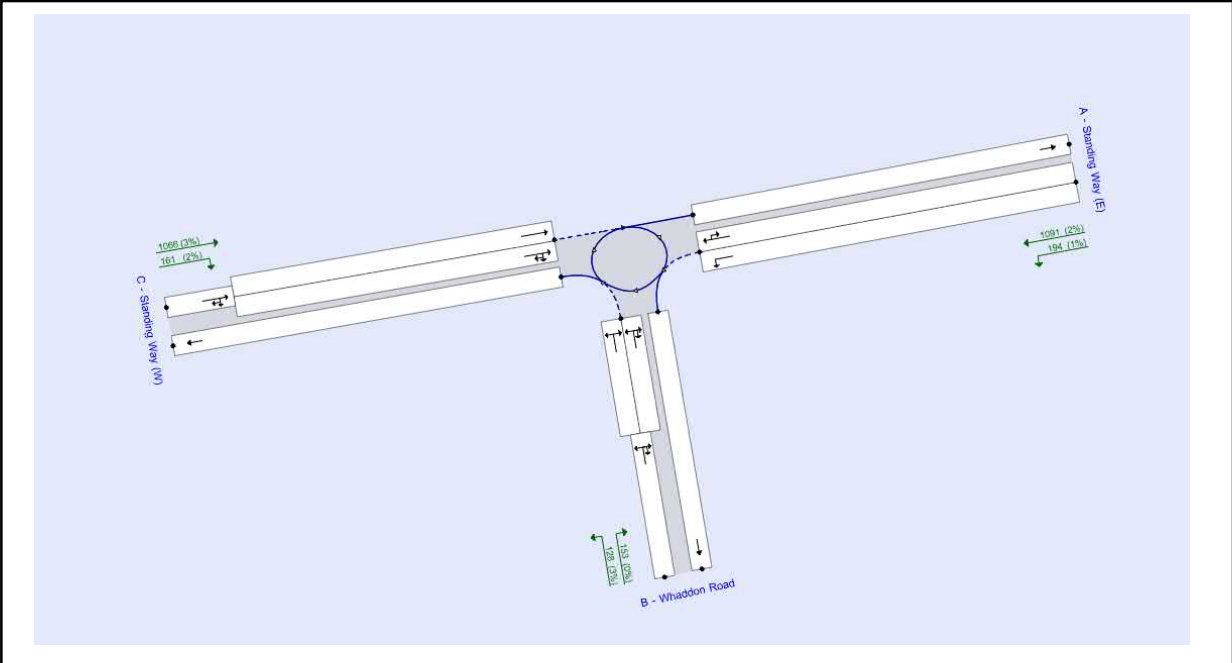
CAD



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	4.2	7.4	19.4	50	56.3	11.5
		C-Standing Way (W)	3.7	7.4	89.06	38.6	56.3	27

Junction 9 Model

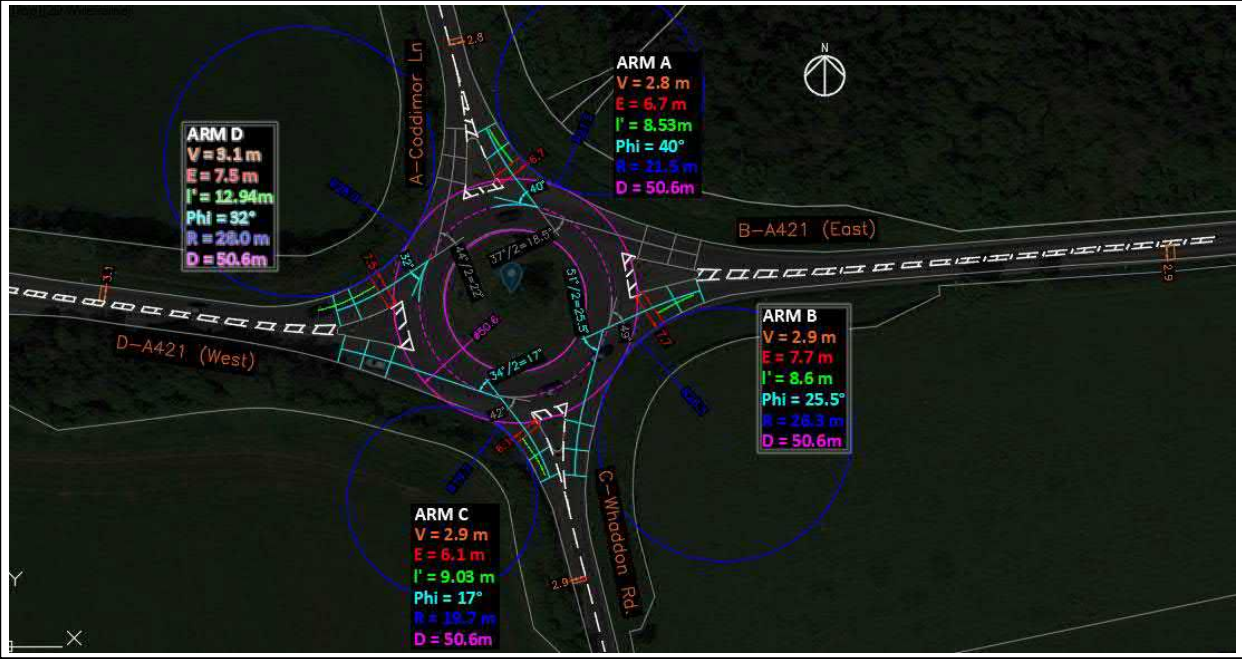


Satellite View



# Junction 7 : Whaddon Crossroads

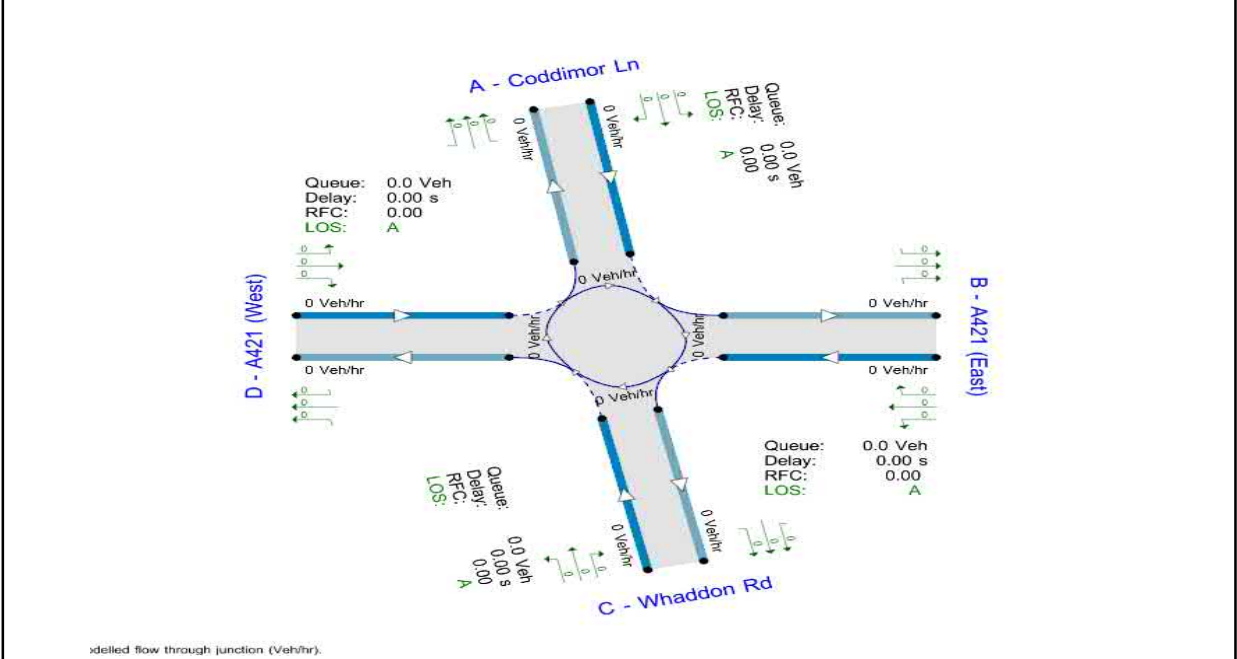
CAD



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)
7	Whaddon Crossroads	A-Coddemor Ln	2.8	6.7	8.53	21.5	50.6	40
		B-A421 (East)	2.9	7.7	8.6	26.3	50.6	25.5
		C-Whaddon Rd.	2.9	6.1	9.03	19.7	50.6	17
		D-A421 (West)	3.1	7.5	12.94	28	50.6	32

Junction 9 Model



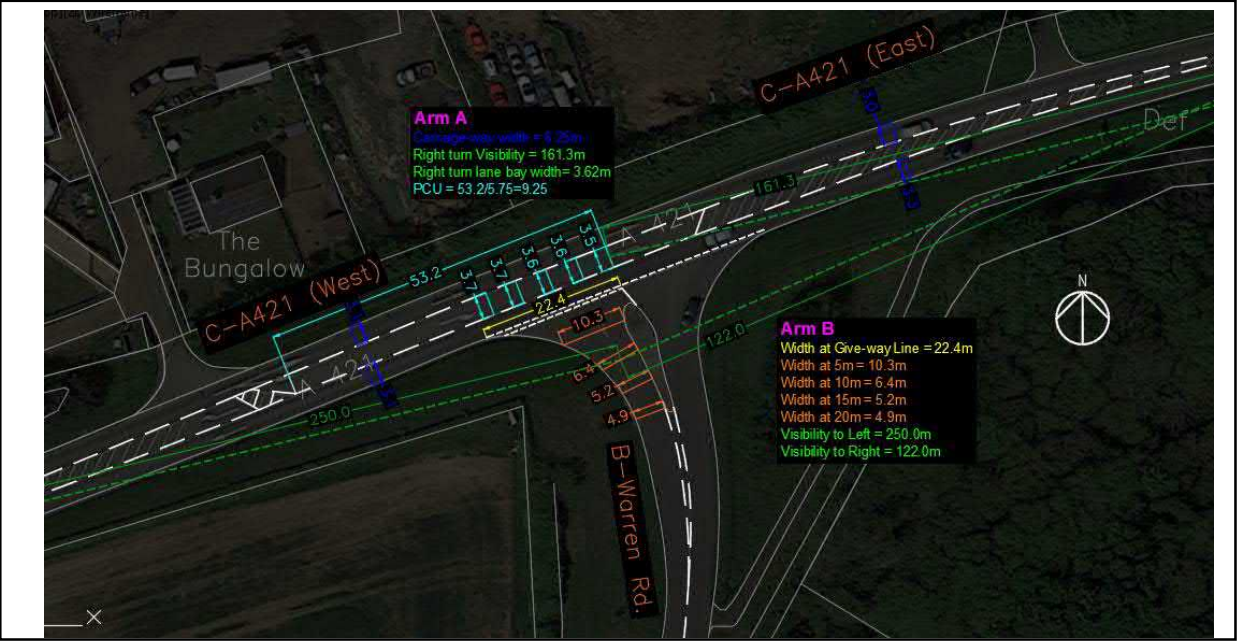
Satellite View





Junction 8 : Warren Road

CAD



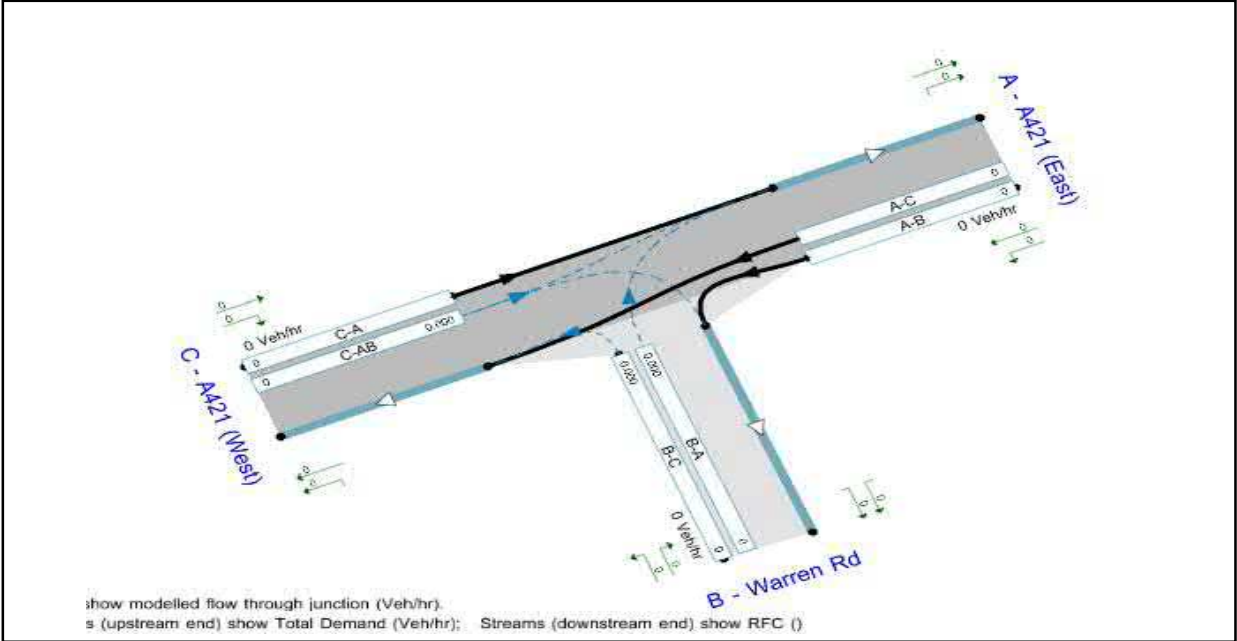
Measurements

Major Arm Measurements		
Opposite Arm B		
Width carriage	6.25	m
kerbed central reserve	-	m
Right turners into B		
Visibility along A fo C-B turn	161.3	m
Right turn bay for C-B traffic	3.62	m
C-B traffic Blocks C-A traffic	9.25	PCU

Arm	Name
A	A421 (West)
B	Warren Rd.
C	A421 (East)

Minor Arm Measurements			
Main carriageway opp. Arm B			
Visibility to Left	250	m	
Visibility to Right	122	m	
Minor arm type	Single Lane With Flare		
Width at give way	22.4	m	
Width at give way Width at 5 m	10.3	m	
Width at give way Width at 10 m	6.4	m	
Width at give way Width at 15 m	5.2	m	
Width at give way Width at 20 m	4.9	m	

Junction 9 Model



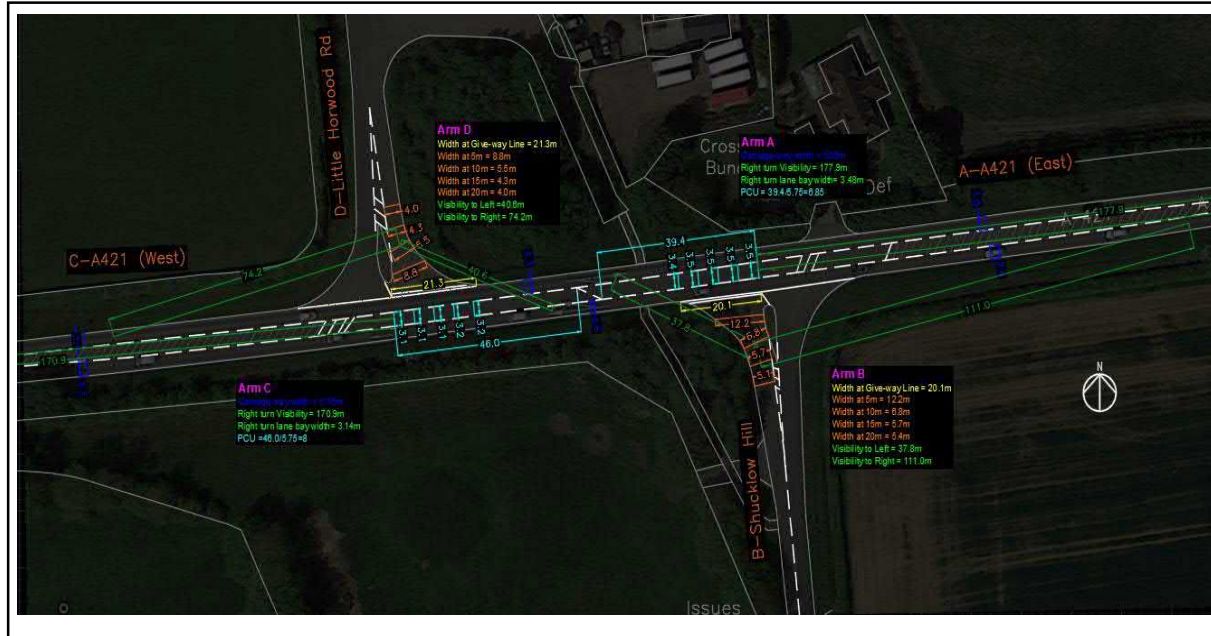
Satellite View



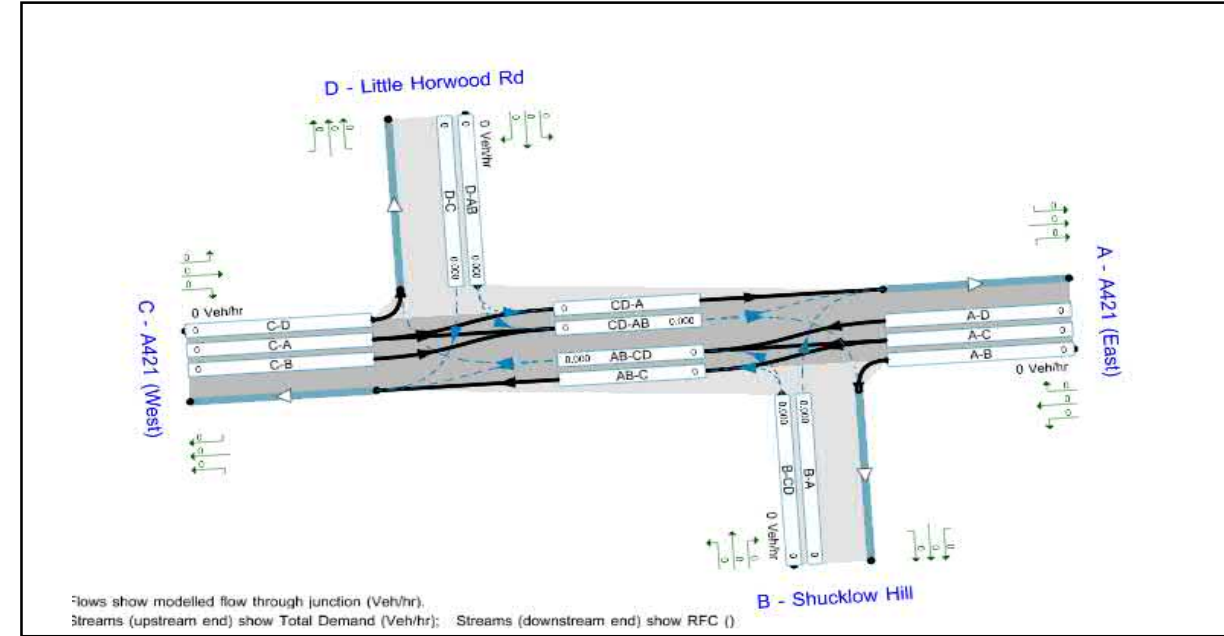


# Junction 9 : A421 Shucklow Hill Little Horwood Road

CAD



Junction 9 Model



Measurements

Major Arm Measurements											
Opposite Arm D					Opposite Arm B						
Width carriage		6.15		m		Width carriage		5.85		m	
kerbed central reserve		-		m		kerbed central reserve		-		m	
Right turners into B					Right turners into D						
Visibility along A fo C-B turn		170.9		m		Visibility along A fo C-B turn		177.9		m	
Right turn bay for C-B traffic		3.14		m		Right turn bay for C-B traffic		3.48		m	
C-B traffic Blocks C-A traffic		8		PCU		C-B traffic Blocks C-A traffic		6.85		PCU	
Minor Arm Measurements											
Main carriageway opp. Arm D					Main carriageway opp. Arm B						
Visibility to Left		40.6		m		Visibility to Left		37.8		m	
Visibility to Right		74.2		m		Visibility to Right		111		m	
Minor arm type		Single Lane With Flare				Minor arm type		Single Lane With Flare			
Width at give way		21.3		m		Width at give way		20.1		m	
Width at give way Width at 5 m		8.8		m		Width at give way Width at 5 m		12.2		m	
Width at give way Width at 10 m		5.5		m		Width at give way Width at 10 m		6.8		m	
Width at give way Width at 15 m		4.3		m		Width at give way Width at 15 m		5.7		m	
Width at give way Width at 20 m		4		m		Width at give way Width at 20 m		5.4		m	

Name	A-A421 (East)	B-Shucklow Hill	C-A421 (West)	D-Little Horwood Rd
Arm	A	B	C	D

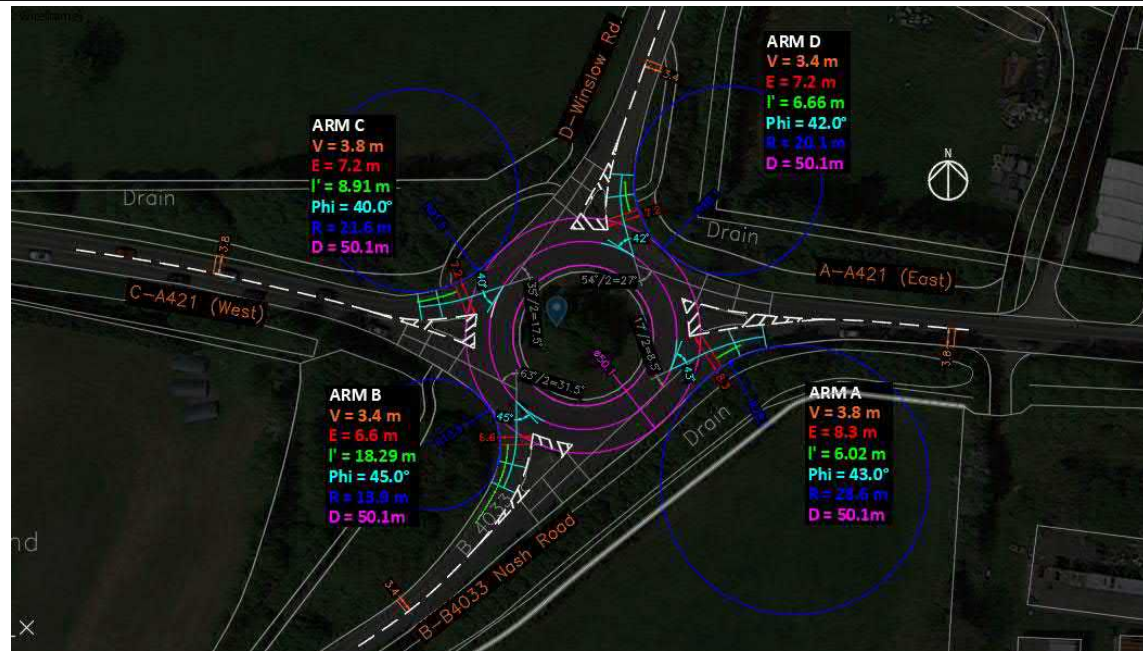
Satellite View





# Junction 10 : A421 Nash Rd Windslow

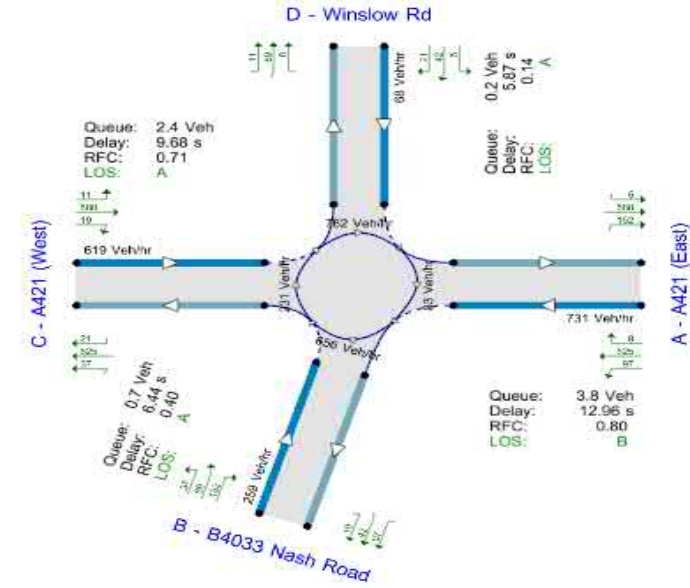
CAD



Measurements

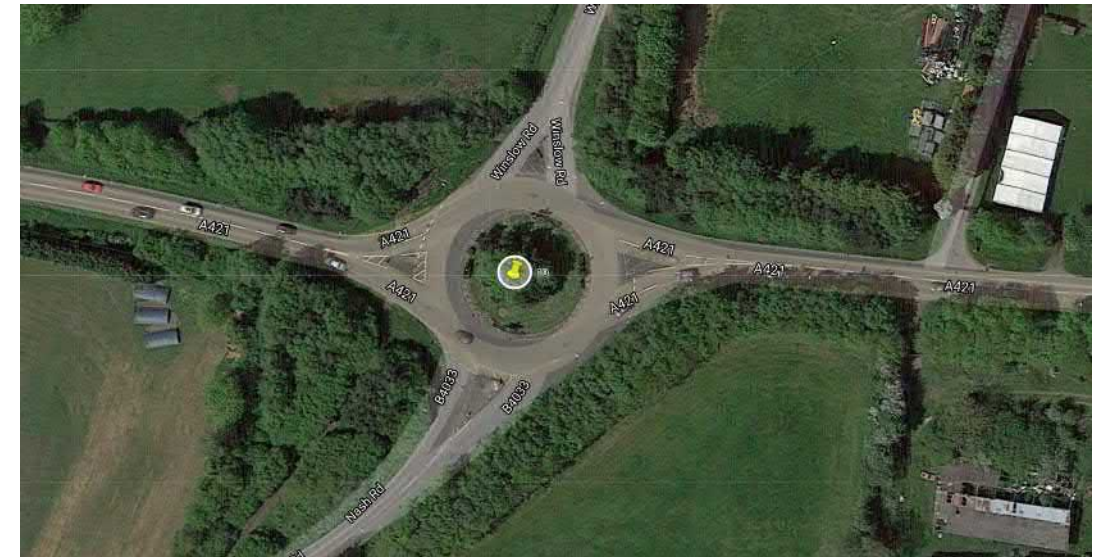
Junction No.	Name	Arms	V - Approach road half-width (m)	E - Entry width (m)	I - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)
10	A421 Nash Rd Windslow	A - A421 (East)	3.8	8.3	6.02	28.6	50.1	43
		B - B4033 Nash Road	3.4	6.6	18.29	13.9	50.1	45
		C - A421 (West)	3.8	7.2	8.91	21.6	50.1	40
		D - Winslow Rd	3.4	7.2	6.66	20.1	50.1	42

Junction 9 Model



v modelled flow through junction (Veh/hr).

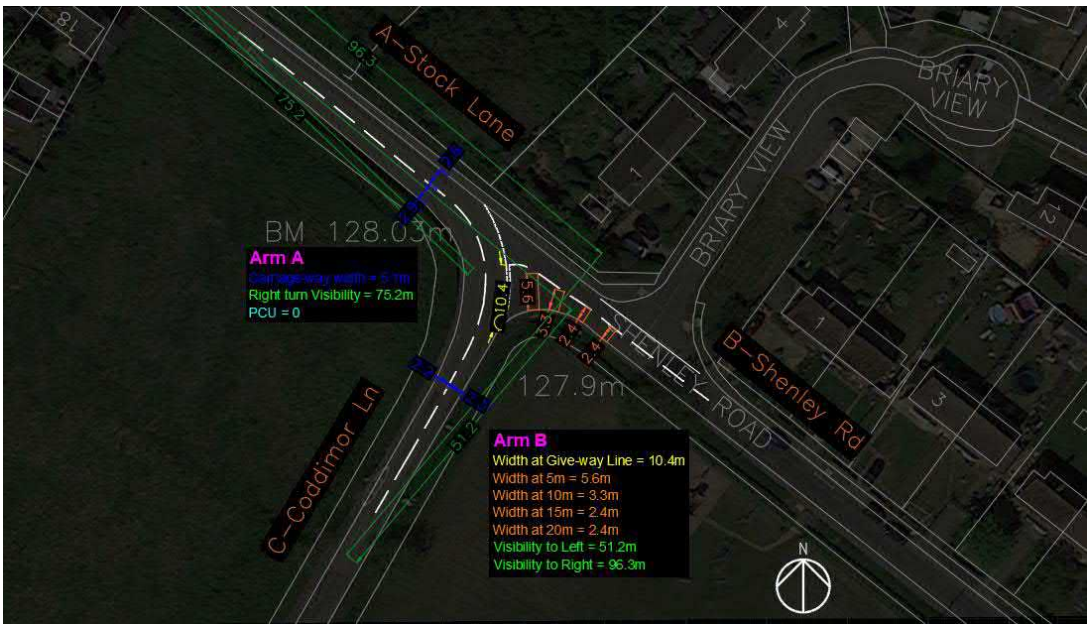
Satellite View



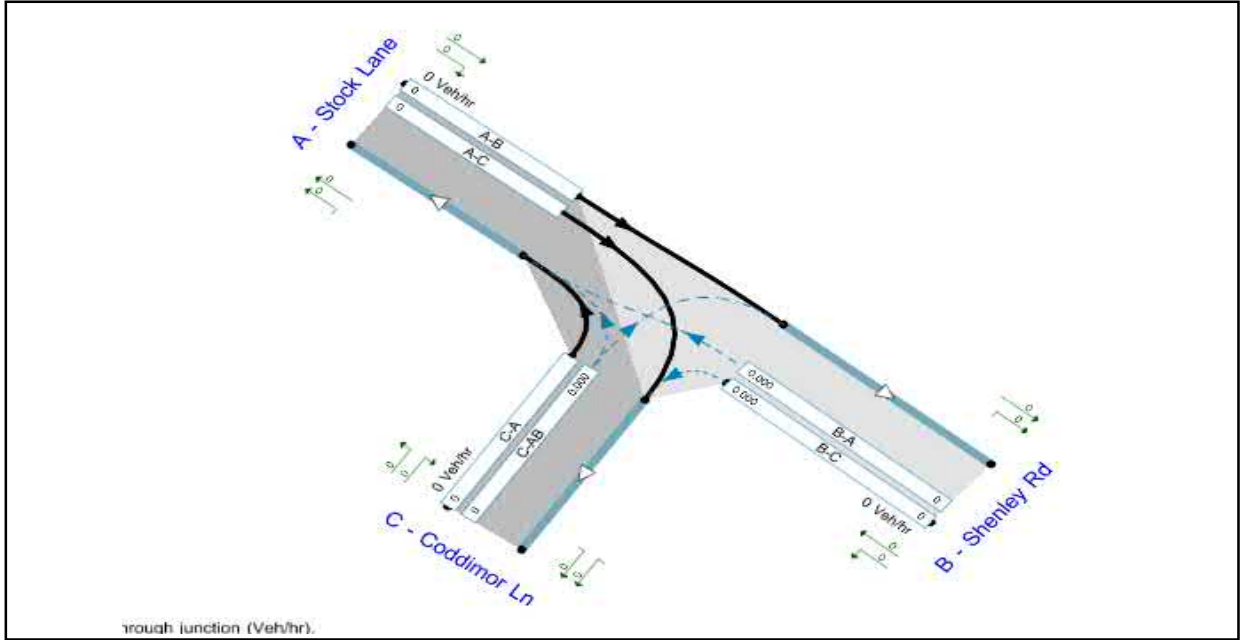


# Junction 11 : Stock Lane Coddimoor Lane Shenley Road

CAD



Junction 9 Model



Measurements

Major Arm Measurements		
Opposite Arm B		
Width carriage	5.1	m
kerbed central reserve	-	m
Right turners into B		
Visibility along A fo C-B turn	75.2	m
Right turn bay for C-B traffic	-	m
C-B traffic Blocks C-A traffic	-	PCU

Arm	Name
A	Stock Lane
B	Shenley Rd.
C	Coddimor Ln

Minor Arm Measurements			
Main carriageway opp. Arm B			
Visibility to Left	51.2	m	
Visibility to Right	96.3	m	
Minor arm type	Single Lane with Flare		
Width at give way	10.4	m	
Width at give way Width at 5 m	5.6	m	
Width at give way Width at 10 m	3.3	m	
Width at give way Width at 15 m	2.4	m	
Width at give way Width at 20 m	2.4	m	

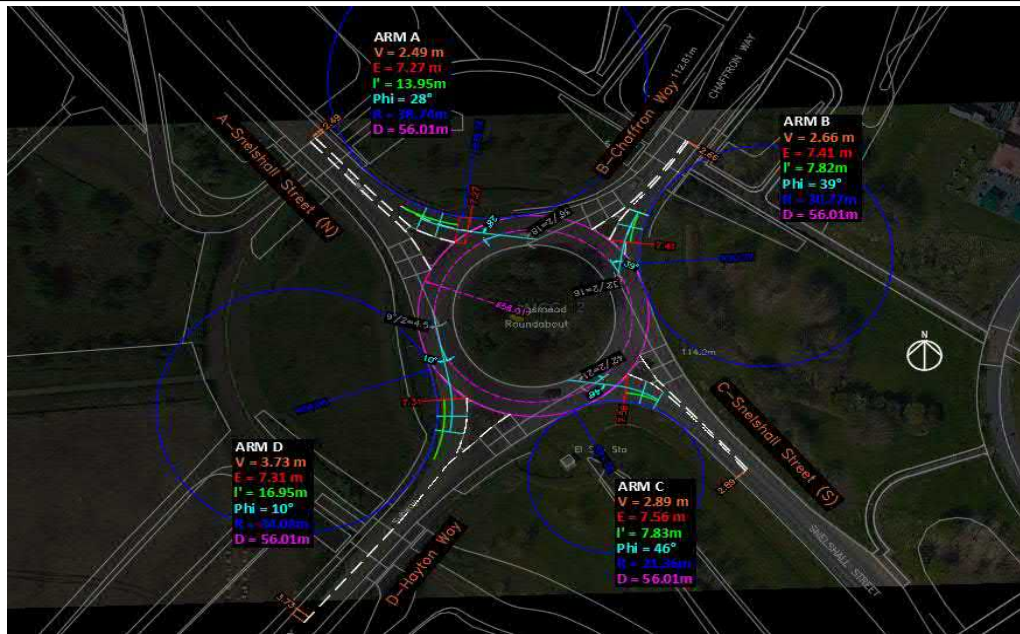
Satellite View





# Junction 12 : Kingsmead Roundabout

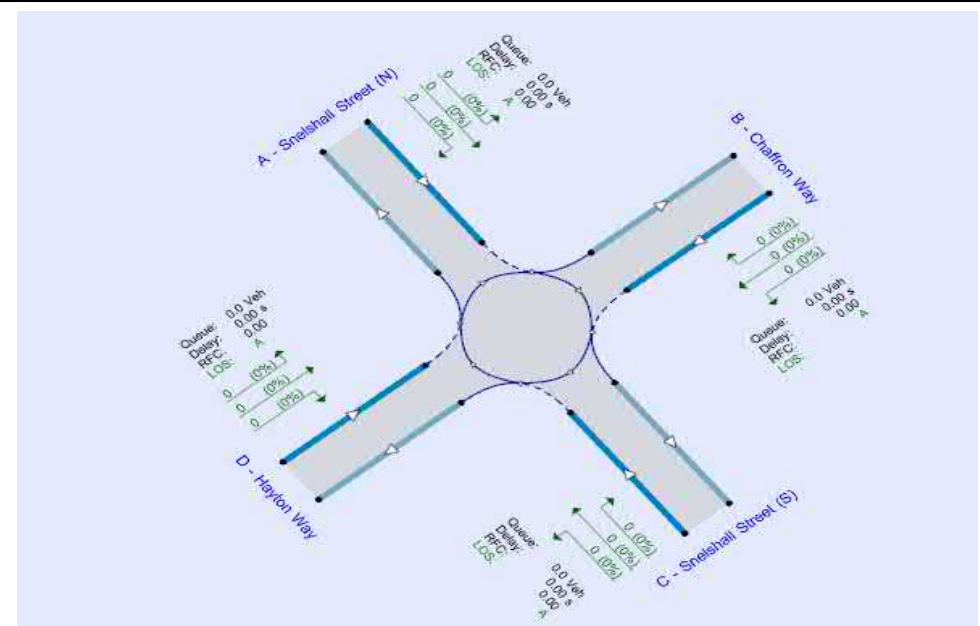
CAD



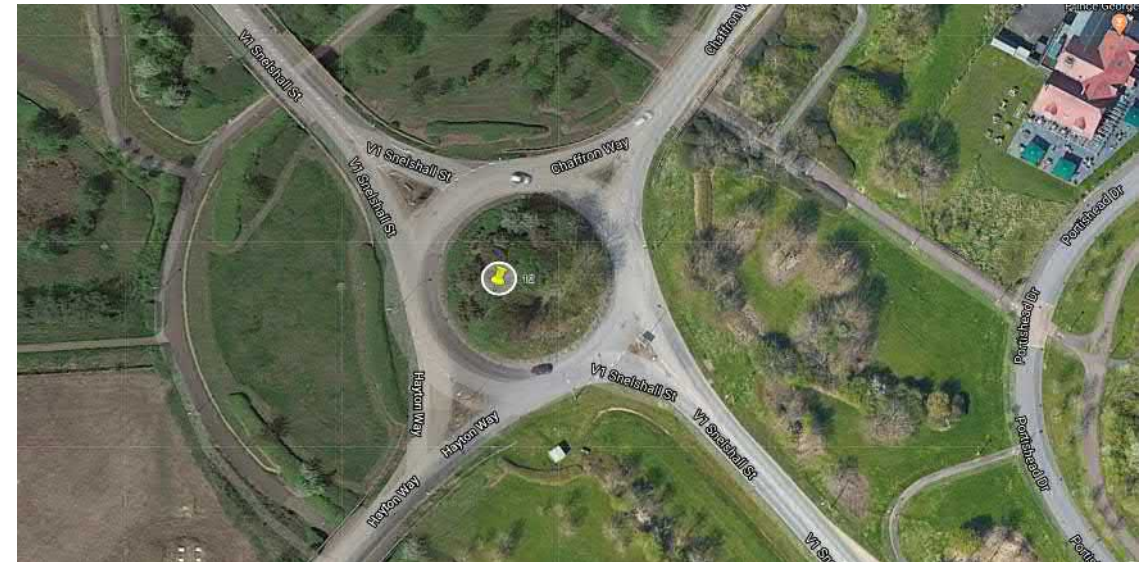
Measurements

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)
12	Kingsmead Roundabout	A - Snelshell Street (N)	2.49	7.27	13.95	38.74	56.01	28
		B - Chaffron Way	2.66	7.41	7.82	30.77	56.01	39
		C - Snelshell Street (S)	2.89	7.56	7.83	21.36	56.01	46
		D - Hayton Way	3.73	7.31	16.95	34.08	56.01	10

Junction 9 Model



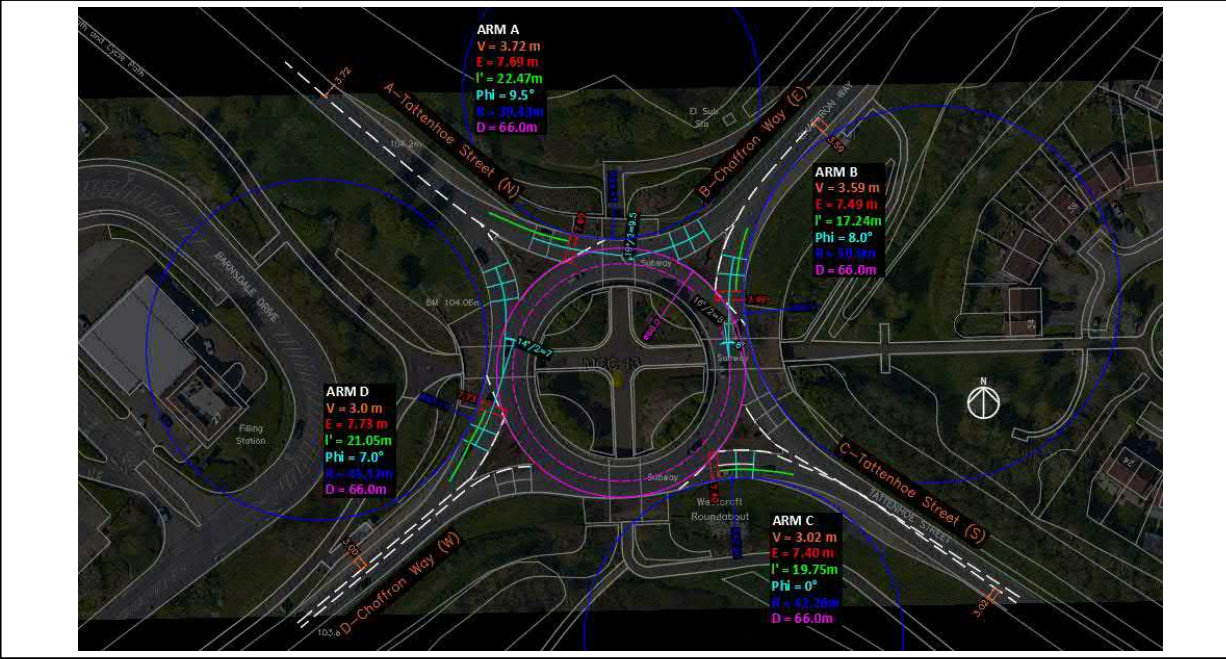
Satellite View





# Junction 13 : Westcroft Roundabout

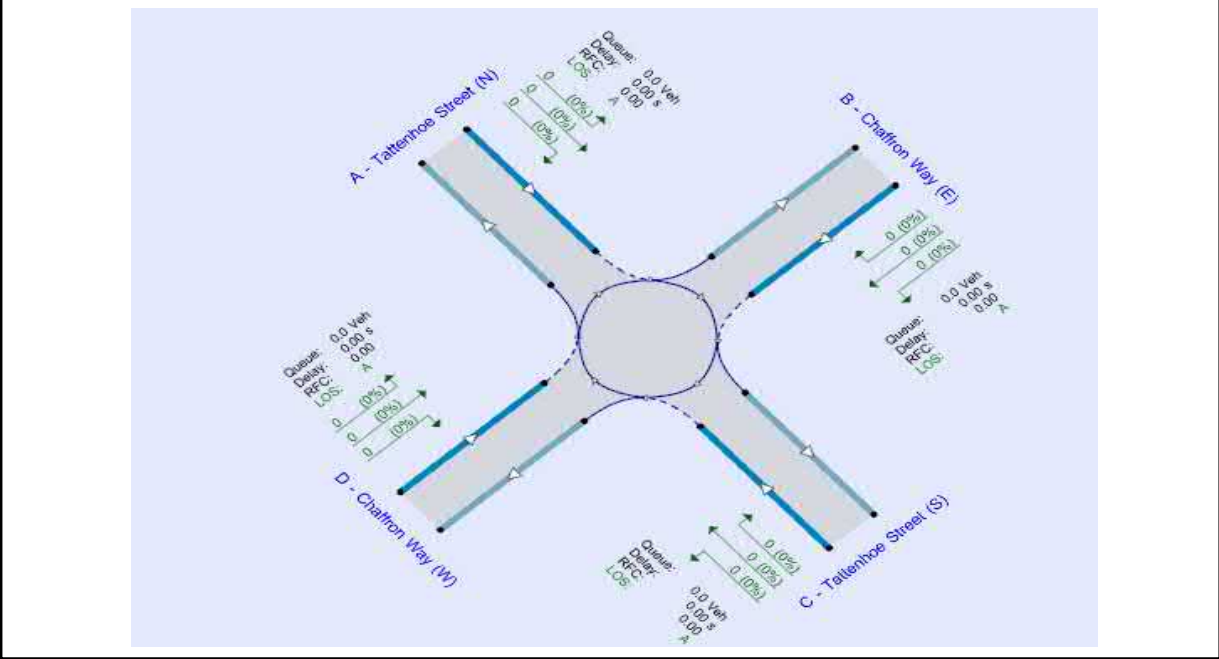
CAD



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)
13	Westcroft Roundabout	A-Tattenhoe Street (N)	3.72	7.69	22.47	39.43	66	9.5
		B-Chaffron Way (E)	3.59	7.49	17.24	50	66	8
		C-Tattenhoe Street (S)	3.02	7.4	19.75	42.26	66	0
		D-Chaffron Way (W)	3	7.73	21.05	45.17	66	7

Junction 9 Model



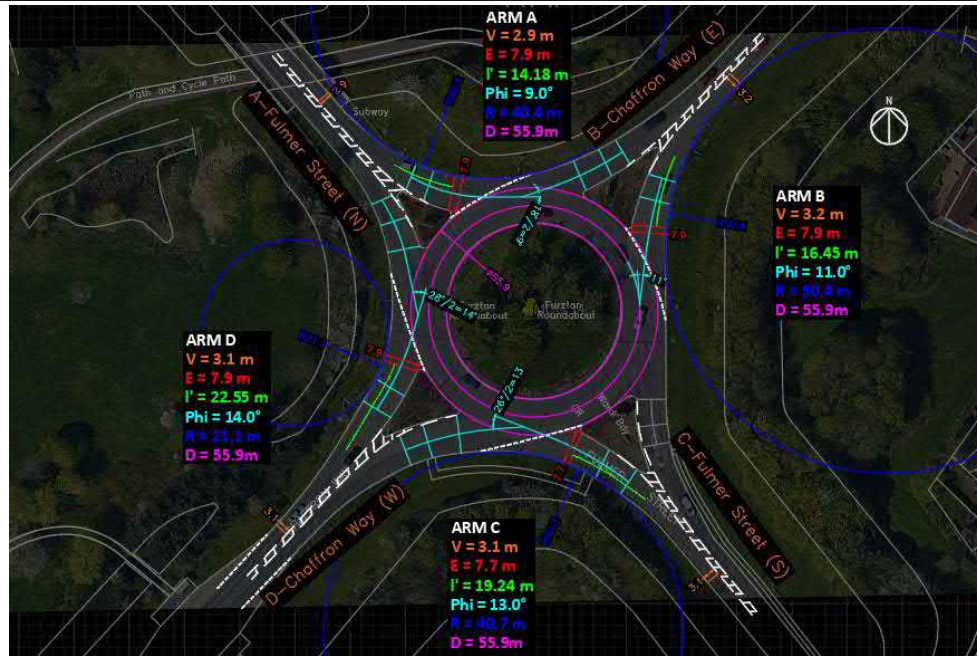
Satellite View





# Junction 14 : Furzton Roundabout

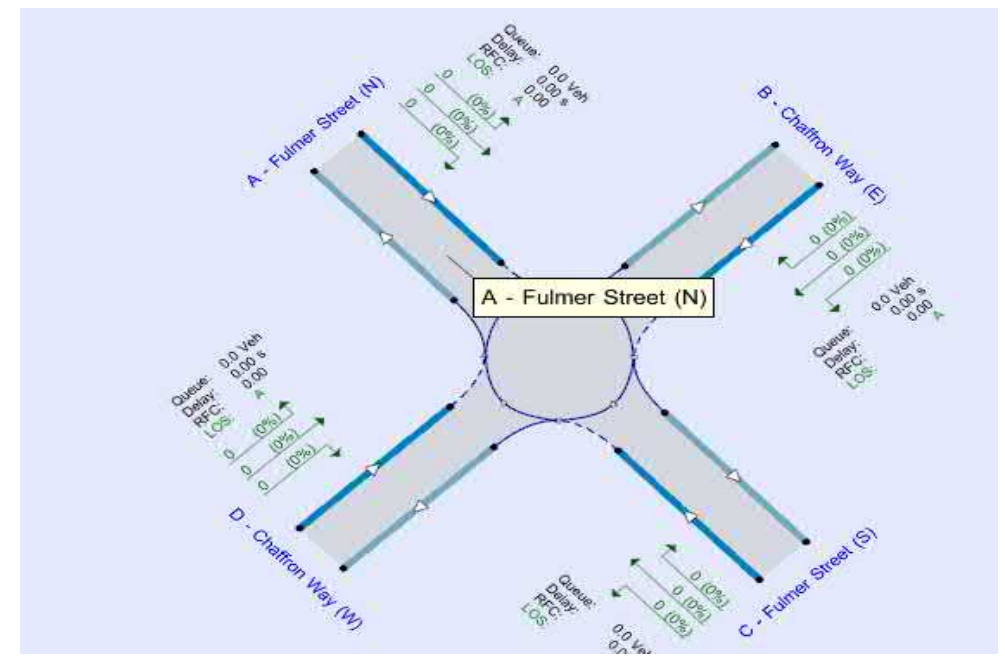
CAD



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)
14	Furzton Roundabout	A-Fulmer Street (N)	2.9	7.9	14.18	40.4	55.9	9
		B-Chaffron Way (E)	3.2	7.9	16.45	50.4	55.9	11
		C-Fulmer Street (S)	3.1	7.7	19.24	40.7	55.9	13
		D-Chaffron Way (W)	3.1	7.9	22.55	21.1	55.9	14

Junction 9 Model



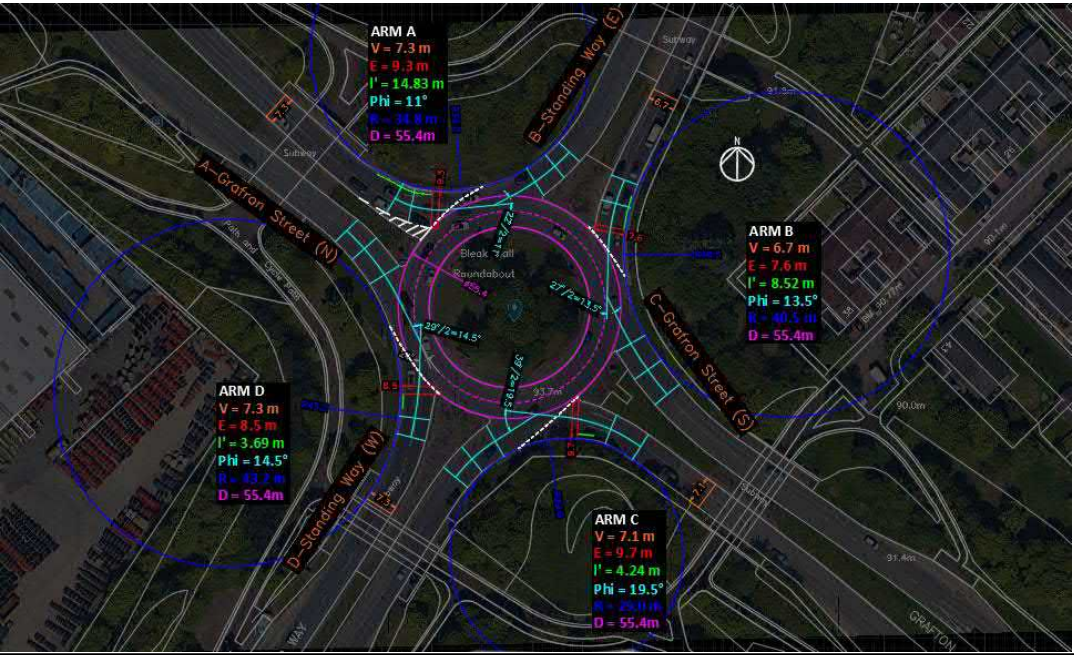
Satellite View





# Junction 15 : Bleak Hall Roundabout

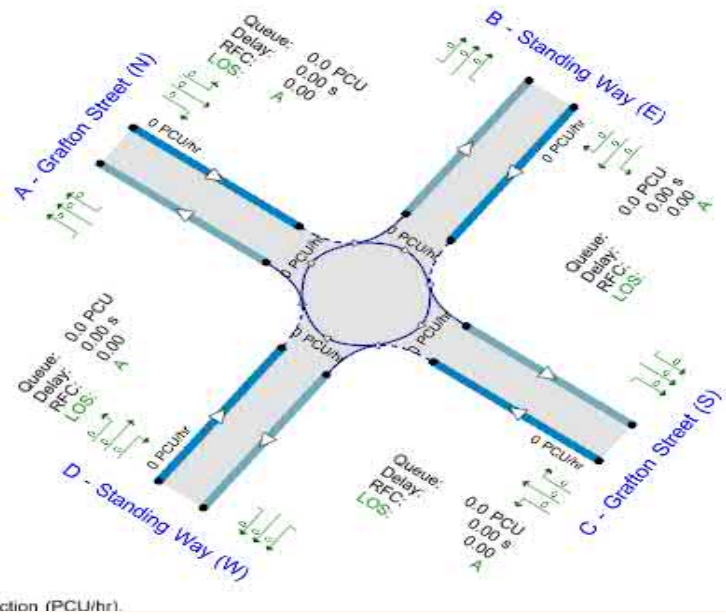
CAD



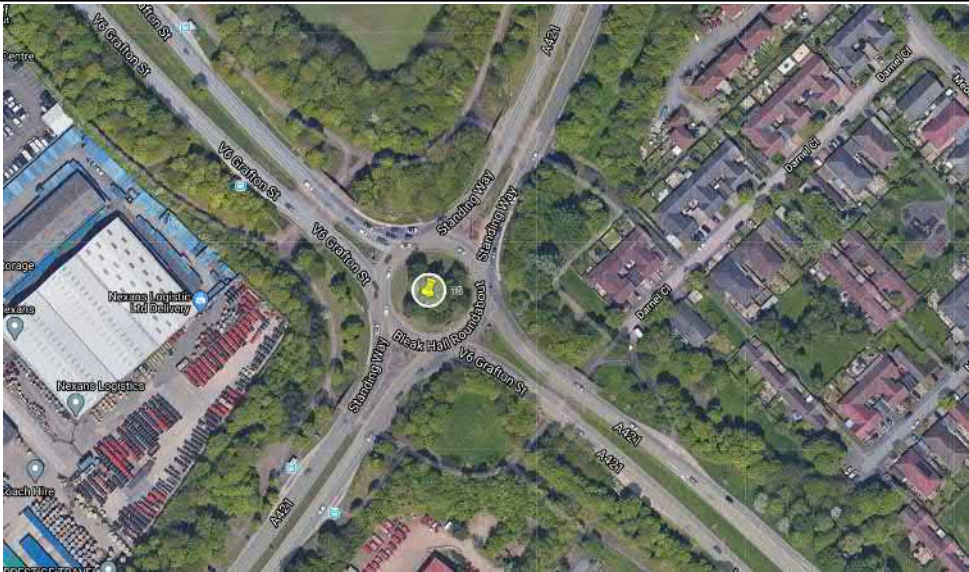
Measurements

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)	7.3	9.3	14.83	34.8	55.4	11
		B - Standing Way (E)	6.7	7.6	8.52	40.5	55.4	13.5
		C - Grafton Street (S)	7.1	9.7	4.24	29	55.4	19.5
		D - Standing Way (W)	7.3	8.5	3.69	43.2	55.4	14.5

Junction 9 Model



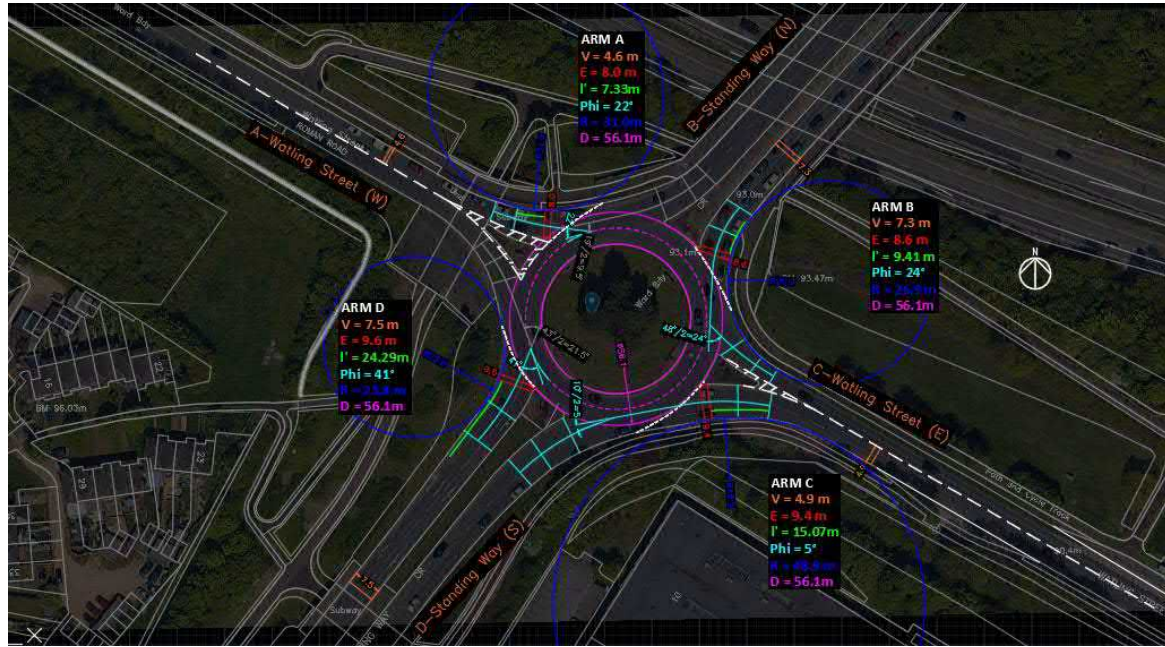
Satellite View





# Junction 16 : Elfield Park Roundabout

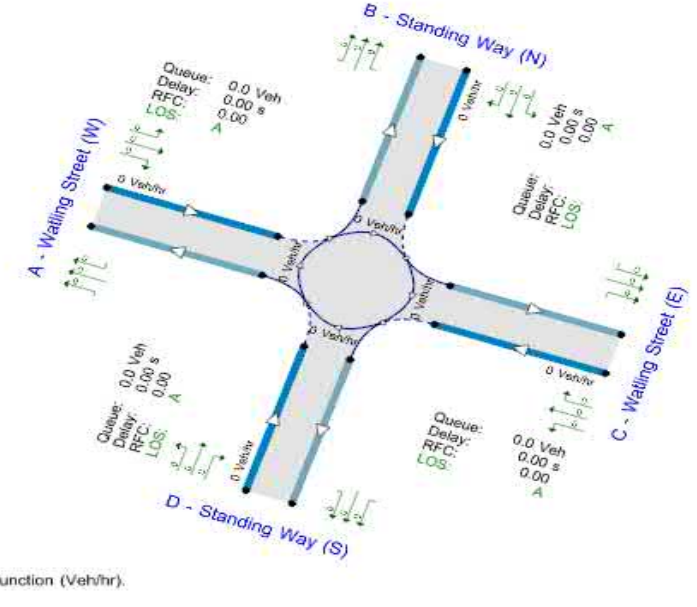
CAD



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)	4.6	8	7.33	31	56.1	22
		B - Standing Way (N)	7.3	8.6	9.41	26.9	56.1	24
		C - Watling Street (E)	4.9	9.4	15.07	48.9	56.1	5
		D - Standing Way (S)	7.5	9.6	24.29	23.8	56.1	41

Junction 9 Model



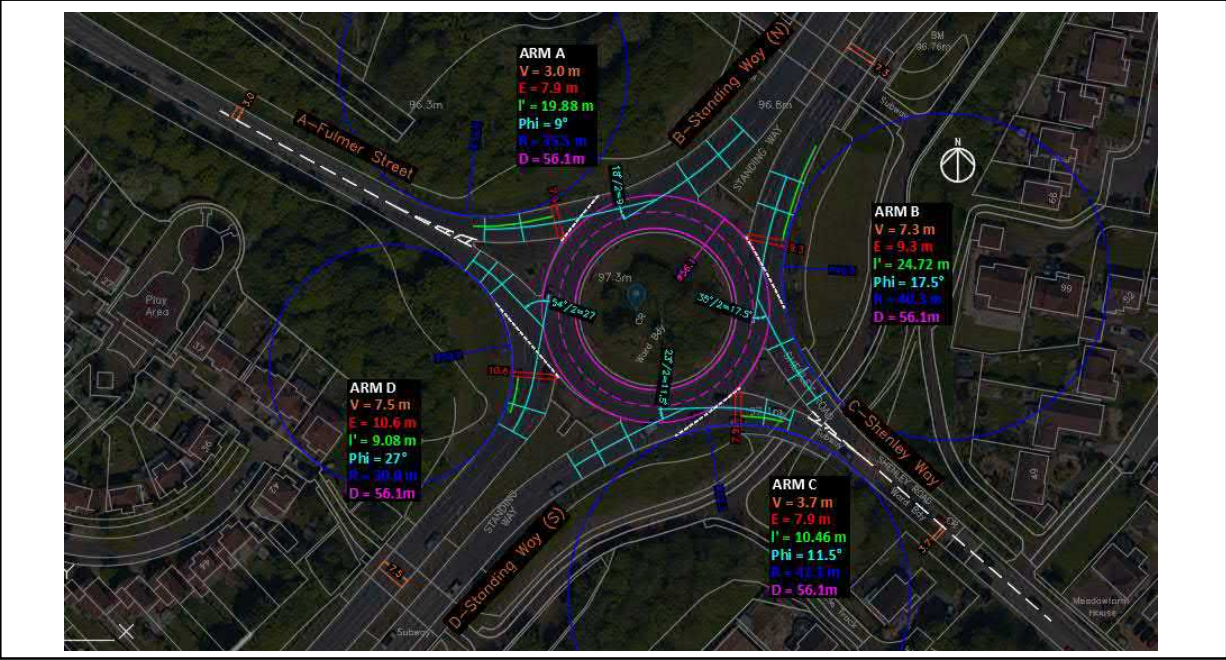
Satellite View





# Junction 17 : Emerson Roundabout

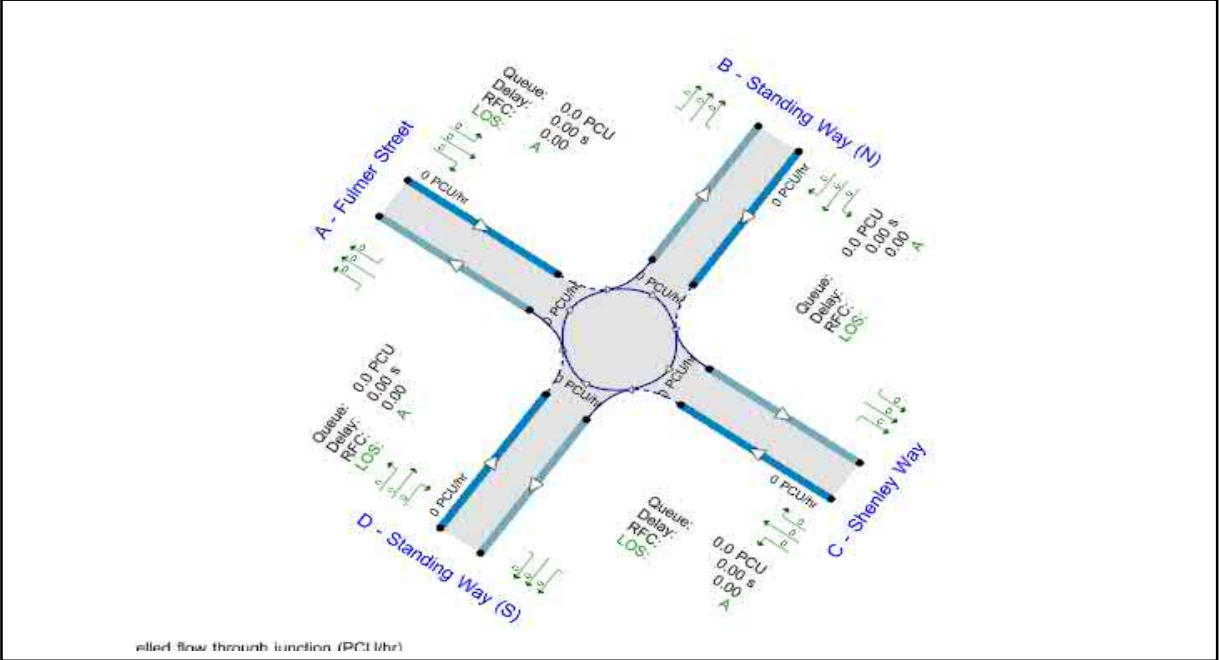
CAD



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	7.9	19.88	35.5	56.1	9
		B - Standing Way (N)	7.3	9.3	24.72	40.3	56.1	17.5
		C - Shenley Way	3.7	7.9	10.46	42.1	56.1	11.5
		D - Standing Way (S)	7.5	10.6	9.08	30	56.1	27

Junction 9 Model



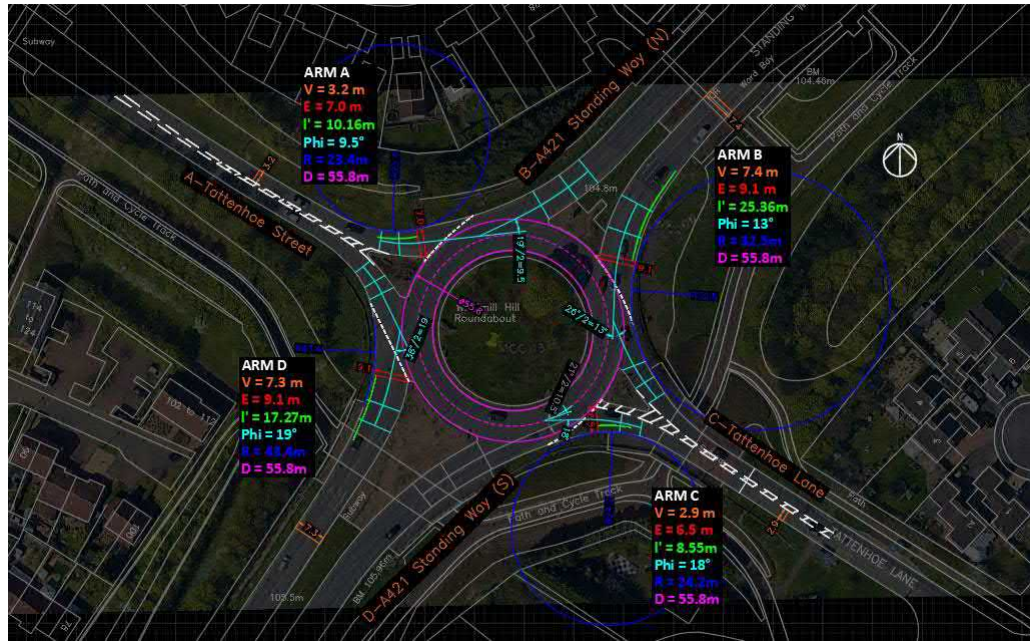
Satellite View



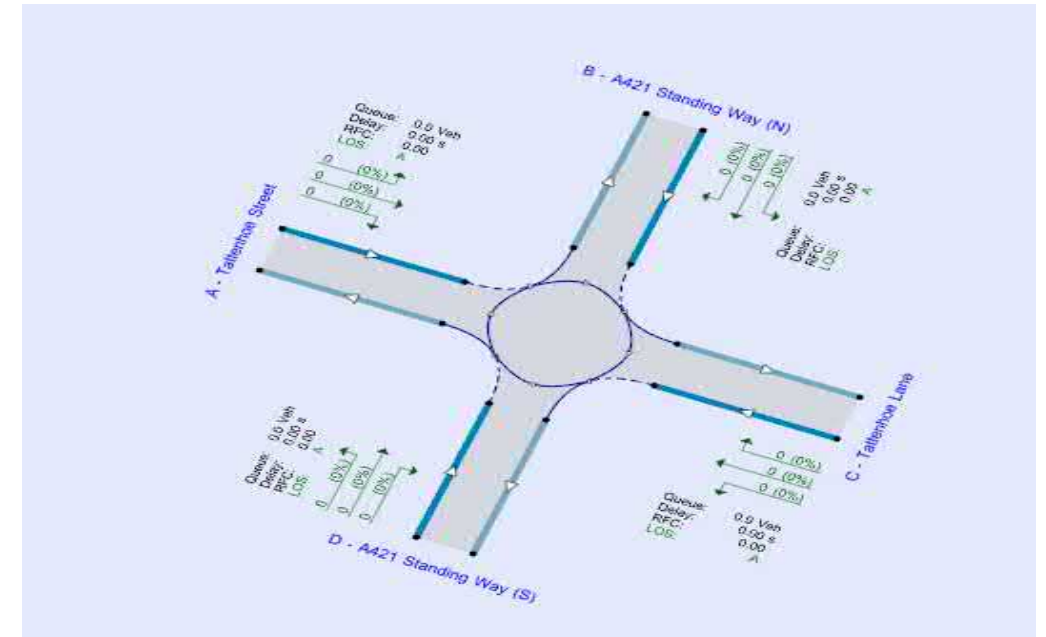


# Junction 18 : Windmill Hill Roundabout

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	3.2	7	10.16	23.4	55.8	9.5
		B-A421 Standing Way (N)	7.4	9.1	25.36	32.5	55.8	13
		C-Tattenhoe Lane	2.9	6.5	8.55	24.2	55.8	18
		D-A421 Standing Way (S)	7.3	9.1	17.27	43.4	55.8	19

Satellite View

