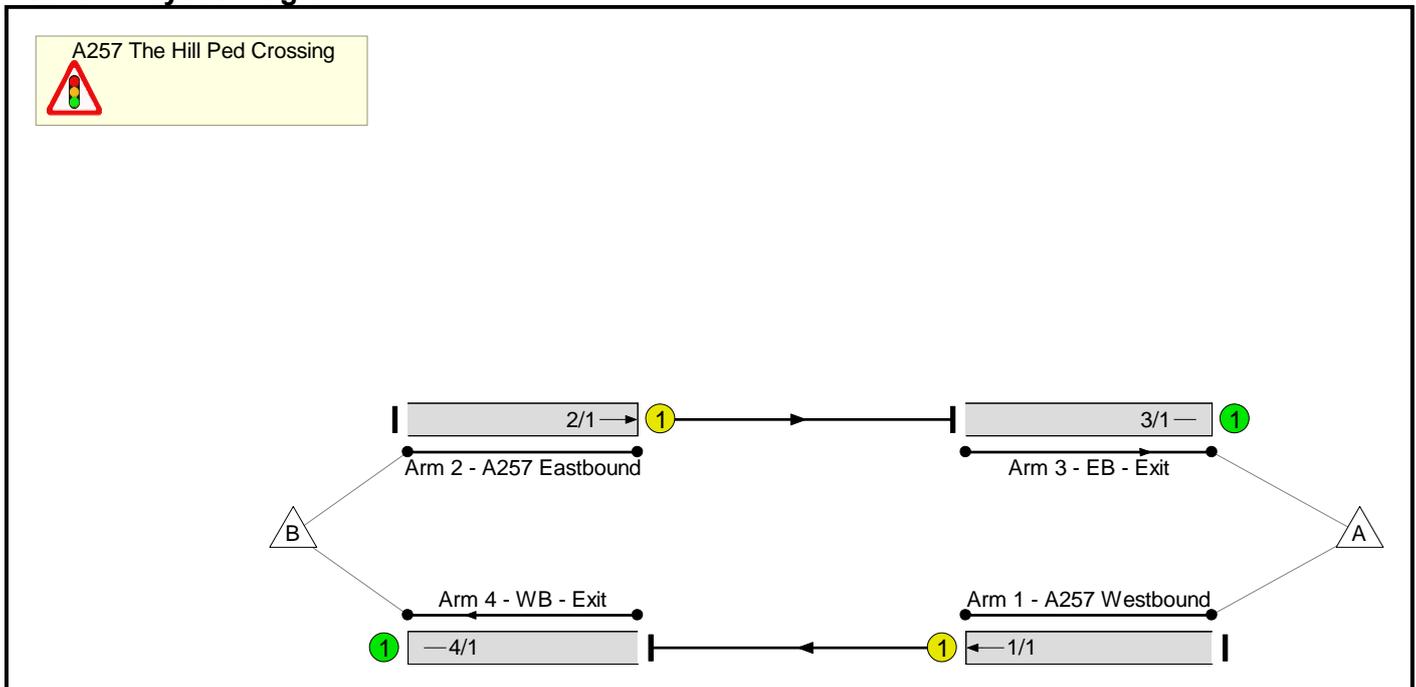


Full Input Data And Results
Full Input Data And Results

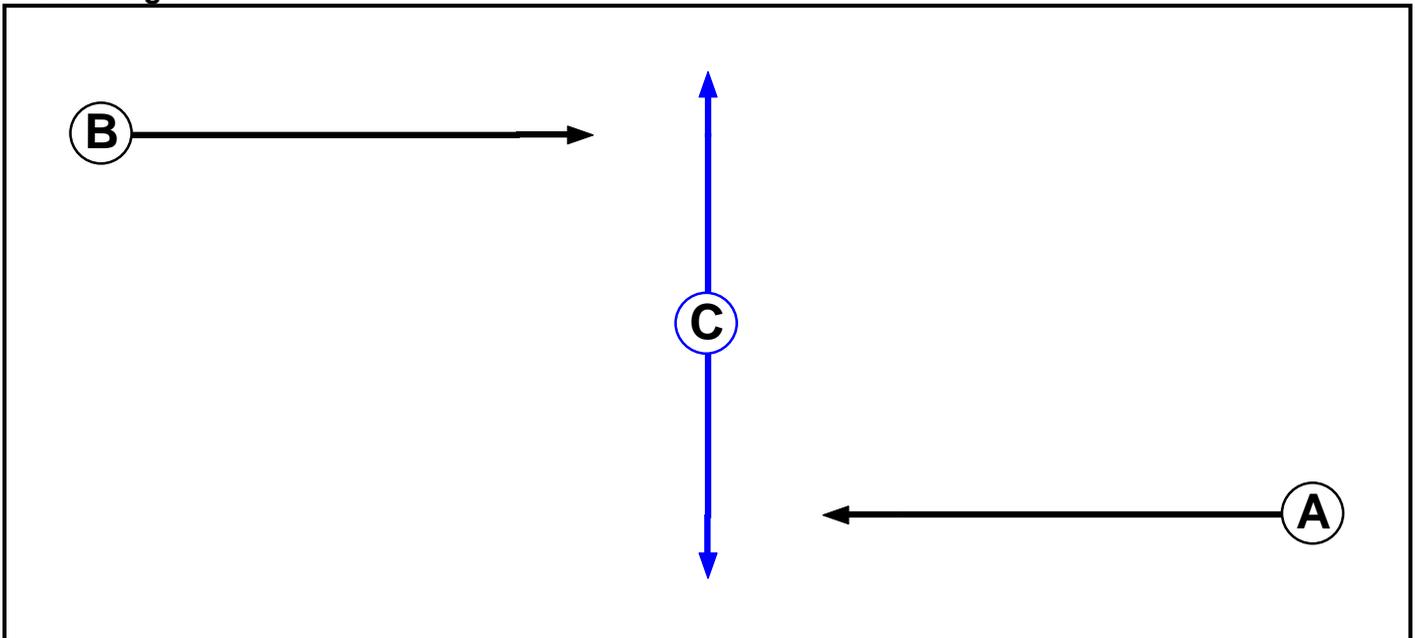
User and Project Details

Project:	Littlebourne
Title:	A257 The Hill Pedestrian Crossing
Location:	
Client:	Gladman
Date Started:	02.11.2023
Additional detail:	
File name:	A257 The Hill Pedestrian Crossing.lsg3x
Author:	Jon Wilkinson
Company:	i-Transport
Address:	Manchester

Network Layout Diagram



Phase Diagram



Phase Input Data

Phase Name	Phase Type	Assoc. Phase	Street Min	Cont Min
A	Traffic		7	7
B	Traffic		7	7
C	Pedestrian		7	7

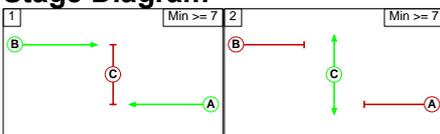
Phase Intergreens Matrix

	Starting Phase		
	A	B	C
Terminating Phase	A	-	5
	B	-	5
	C	7	7

Phases in Stage

Stage No.	Phases in Stage
1	A B
2	C

Stage Diagram



Phase Delays

Term. Stage	Start Stage	Phase	Type	Value	Cont value
There are no Phase Delays defined					

Full Input Data And Results

Prohibited Stage Change

From Stage	To Stage	
	1	2
1	5	
2		7

Full Input Data And Results

Give-Way Lane Input Data

Junction: A257 The Hill Ped Crossing

There are no Opposed Lanes in this Junction

Full Input Data And Results

Lane Input Data

Junction: A257 The Hill Ped Crossing												
Lane	Lane Type	Phases	Start Disp.	End Disp.	Physical Length (PCU)	Sat Flow Type	Def User Saturation Flow (PCU/Hr)	Lane Width (m)	Gradient	Nearside Lane	Turns	Turning Radius (m)
1/1 (A257 Westbound)	U	A	2	3	60.0	Geom	-	3.00	0.00	Y	Arm 4 Ahead	Inf
2/1 (A257 Eastbound)	U	B	2	3	60.0	Geom	-	3.00	0.00	Y	Arm 3 Ahead	Inf
3/1 (EB - Exit)	U		2	3	60.0	Inf	-	-	-	-	-	-
4/1 (WB - Exit)	U		2	3	60.0	Inf	-	-	-	-	-	-

Traffic Flow Groups

Flow Group	Start Time	End Time	Duration	Formula
1: '2045 B+C+D AM'	08:00	09:00	01:00	
2: '2045 B+C+D PM'	17:00	18:00	01:00	

Scenario 1: '2045 B+C+D AM' (FG1: '2045 B+C+D AM', Plan 1: 'Network Control Plan 1')

Traffic Flows, Desired

Desired Flow :

	Destination			
	A	B	Tot.	
Origin	A	0	662	662
	B	480	0	480
	Tot.	480	662	1142

Traffic Lane Flows

Lane	Scenario 1: 2045 B+C+D AM
Junction: A257 The Hill Ped Crossing	
1/1	662
2/1	480
3/1	480
4/1	662

Full Input Data And Results

Lane Saturation Flows

Junction: A257 The Hill Ped Crossing								
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1 (A257 Westbound)	3.00	0.00	Y	Arm 4 Ahead	Inf	100.0 %	1915	1915
2/1 (A257 Eastbound)	3.00	0.00	Y	Arm 3 Ahead	Inf	100.0 %	1915	1915
3/1 (EB - Exit Lane 1)	Infinite Saturation Flow						Inf	Inf
4/1 (WB - Exit Lane 1)	Infinite Saturation Flow						Inf	Inf

Scenario 2: '2045 B+C+D PM' (FG2: '2045 B+C+D PM', Plan 1: 'Network Control Plan 1')

Traffic Flows, Desired

Desired Flow :

	Destination			
		A	B	Tot.
Origin	A	0	451	451
	B	435	0	435
	Tot.	435	451	886

Traffic Lane Flows

Lane	Scenario 2: 2045 B+C+D PM
Junction: A257 The Hill Ped Crossing	
1/1	451
2/1	435
3/1	435
4/1	451

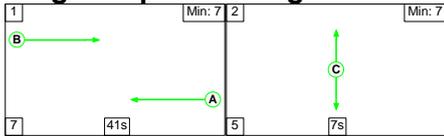
Lane Saturation Flows

Junction: A257 The Hill Ped Crossing								
Lane	Lane Width (m)	Gradient	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1 (A257 Westbound)	3.00	0.00	Y	Arm 4 Ahead	Inf	100.0 %	1915	1915
2/1 (A257 Eastbound)	3.00	0.00	Y	Arm 3 Ahead	Inf	100.0 %	1915	1915
3/1 (EB - Exit Lane 1)	Infinite Saturation Flow						Inf	Inf
4/1 (WB - Exit Lane 1)	Infinite Saturation Flow						Inf	Inf

Full Input Data And Results

Scenario 1: '2045 B+C+D AM' (FG1: '2045 B+C+D AM', Plan 1: 'Network Control Plan 1')

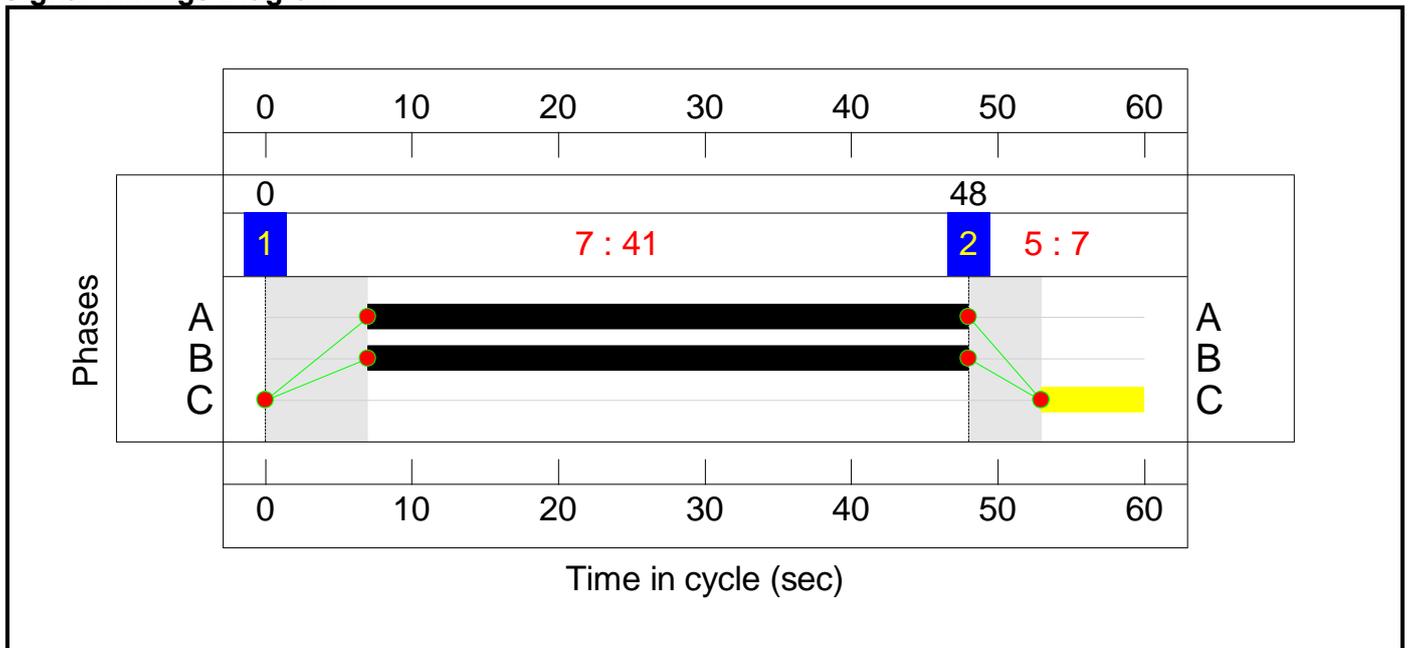
Stage Sequence Diagram



Stage Timings

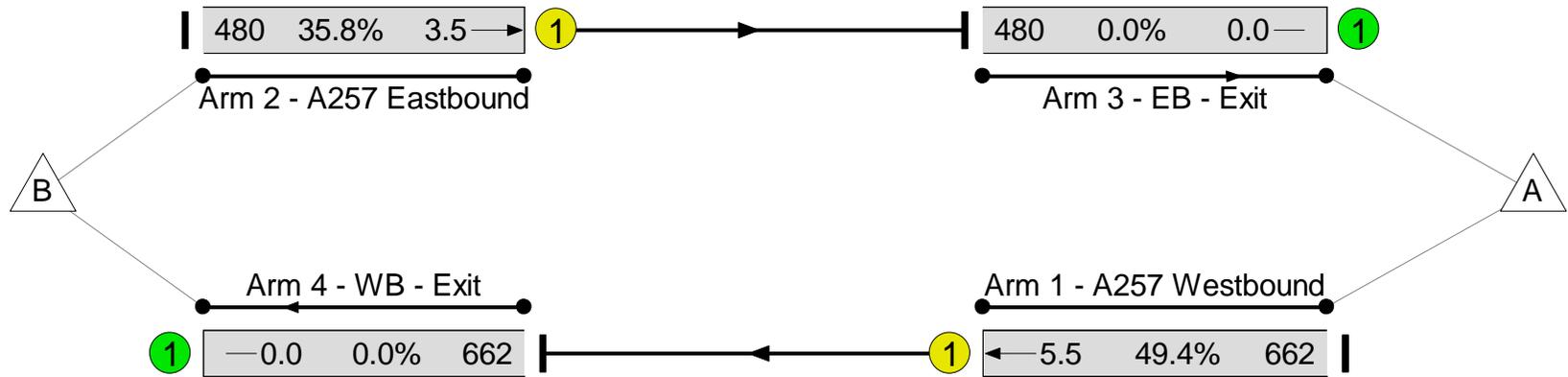
Stage	1	2
Duration	41	7
Change Point	0	48

Signal Timings Diagram



Network Layout Diagram

A257 The Hill Ped Crossing
PRC: 82.2 %
Total Traffic Delay: 2.0 pcuHr



Full Input Data And Results

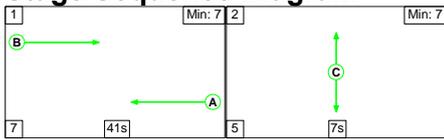
Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: A257 The Hill Pedestrian Crossing	-	-	N/A	-	-		-	-	-	-	-	-	49.4%
A257 The Hill Ped Crossing	-	-	N/A	-	-		-	-	-	-	-	-	49.4%
1/1	A257 Westbound Ahead	U	N/A	N/A	A		1	41	-	662	1915	1340	49.4%
2/1	A257 Eastbound Ahead	U	N/A	N/A	B		1	41	-	480	1915	1340	35.8%
3/1	EB - Exit	U	N/A	N/A	-		-	-	-	480	Inf	Inf	0.0%
4/1	WB - Exit	U	N/A	N/A	-		-	-	-	662	Inf	Inf	0.0%
Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network: A257 The Hill Pedestrian Crossing	-	-	0	0	0	1.2	0.8	0.0	2.0	-	-	-	-
A257 The Hill Ped Crossing	-	-	0	0	0	1.2	0.8	0.0	2.0	-	-	-	-
1/1	662	662	-	-	-	0.8	0.5	-	1.2	6.8	5.0	0.5	5.5
2/1	480	480	-	-	-	0.5	0.3	-	0.8	5.7	3.2	0.3	3.5
3/1	480	480	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
4/1	662	662	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
C1 PRC for Signalled Lanes (%): 82.2 Total Delay for Signalled Lanes (pcuHr): 2.01 Cycle Time (s): 60 PRC Over All Lanes (%): 82.2 Total Delay Over All Lanes(pcuHr): 2.01													

Full Input Data And Results

Scenario 2: '2045 B+C+D PM' (FG2: '2045 B+C+D PM', Plan 1: 'Network Control Plan 1')

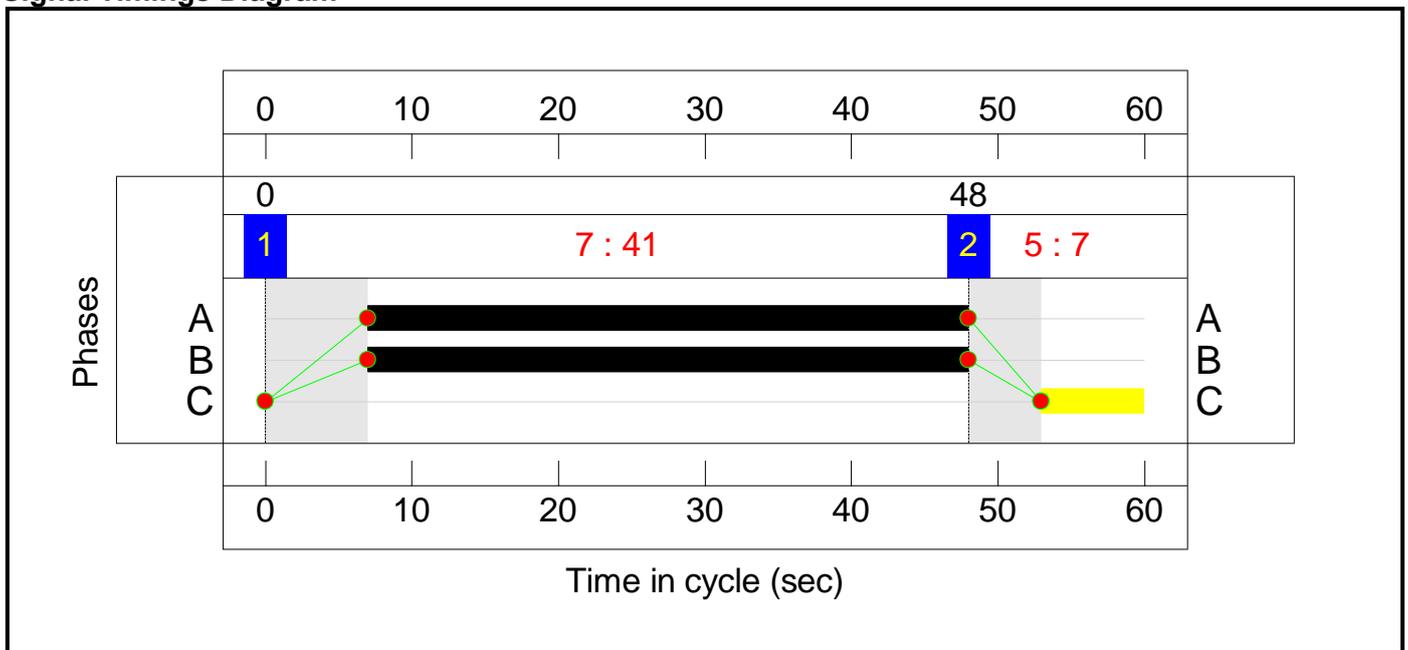
Stage Sequence Diagram



Stage Timings

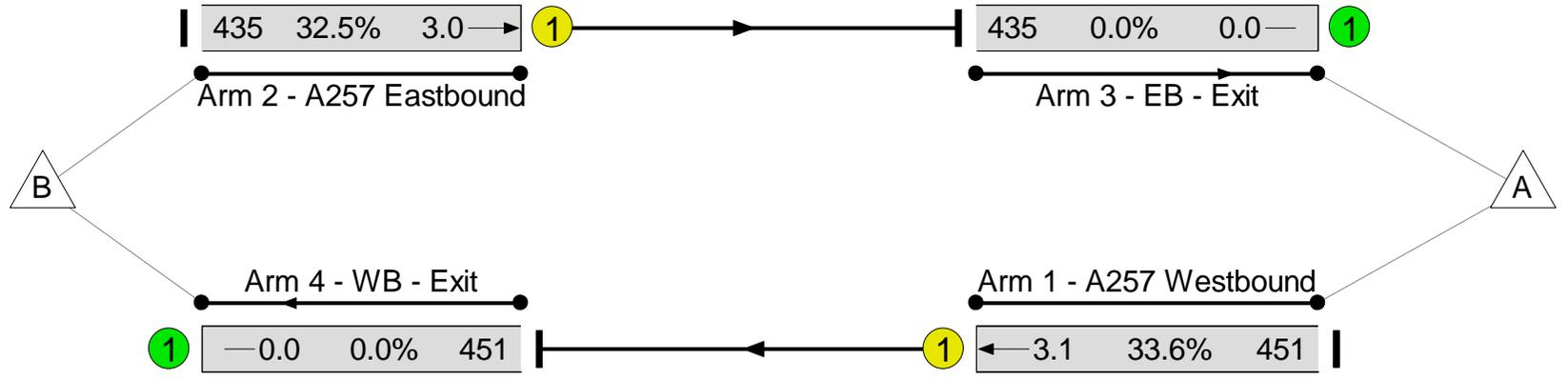
Stage	1	2
Duration	41	7
Change Point	0	48

Signal Timings Diagram



Network Layout Diagram

A257 The Hill Ped Crossing
PRC: 167.5 %
Total Traffic Delay: 1.4 pcuHr



Full Input Data And Results

Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: A257 The Hill Pedestrian Crossing	-	-	N/A	-	-		-	-	-	-	-	-	33.6%
A257 The Hill Ped Crossing	-	-	N/A	-	-		-	-	-	-	-	-	33.6%
1/1	A257 Westbound Ahead	U	N/A	N/A	A		1	41	-	451	1915	1340	33.6%
2/1	A257 Eastbound Ahead	U	N/A	N/A	B		1	41	-	435	1915	1340	32.5%
3/1	EB - Exit	U	N/A	N/A	-		-	-	-	435	Inf	Inf	0.0%
4/1	WB - Exit	U	N/A	N/A	-		-	-	-	451	Inf	Inf	0.0%
Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network: A257 The Hill Pedestrian Crossing	-	-	0	0	0	0.9	0.5	0.0	1.4	-	-	-	-
A257 The Hill Ped Crossing	-	-	0	0	0	0.9	0.5	0.0	1.4	-	-	-	-
1/1	451	451	-	-	-	0.4	0.3	-	0.7	5.6	2.9	0.3	3.1
2/1	435	435	-	-	-	0.4	0.2	-	0.7	5.5	2.8	0.2	3.0
3/1	435	435	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
4/1	451	451	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
<p>C1 PRC for Signalled Lanes (%): 167.5 Total Delay for Signalled Lanes (pcuHr): 1.36 Cycle Time (s): 60 PRC Over All Lanes (%): 167.5 Total Delay Over All Lanes(pcuHr): 1.36</p>													