



South Wokingham Distributor Road - Spine Road and Western Gateway Phase 1

Finchampstead Road Signalised Crossing Timing Schedule

WMHP-TG-SRWG1-SH-HI-1202

Revision: P03

Date: 19/01/2024



Balfour Beatty

South Wokingham Distributor Road - Spine Road and Western Gateway Phase 1

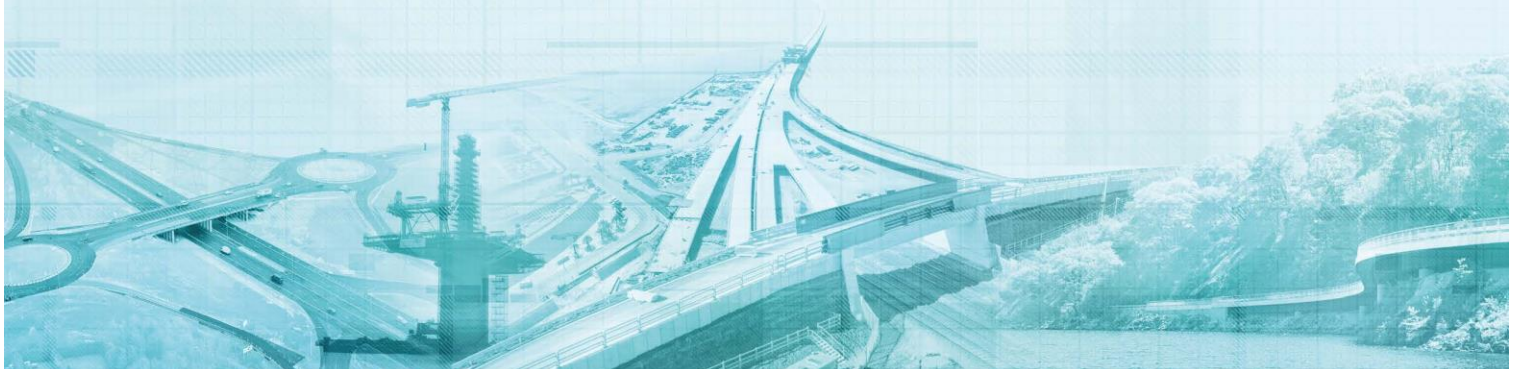
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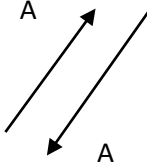
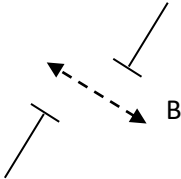
Document Issue Record

Project:	South Wokingham Distributor Road - Spine Road and Western Gateway Phase 1
Report Title:	Finchampstead Road Signalised Crossing Timing Schedule
Client:	Wokingham Borough Council
Document No:	WMHP-TG-SRWG1-SH-HI-1202
Revision:	P03
Status	S3 - Suitable for review and comment (for approval)
Date:	19/01/2024
Filename:	WMHP-TG-SRWG1-SH-HI-1202-P02

Rev	Date	Description and Purpose of Issue	Prepared	Reviewed	Approved
P01	27/08/21	First Issue	PR	IR	IR
P02	27/05/22	Matters outstanding WMHP-TG-SRWG1-RG-DM-0010	PR	IR	IR
P03	19/01/24	Roundabout VE Update	PR	IR	IR

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Location: Toucan Crossing - Finchampstead Road South, Wokingham		SITE REFERENCE: TBC
SCHEDULE ISSUE: 2.0	SCHEDULE COMPRISING: 3 PAGES	DRAWINGS: WMHP-TG-WG2-DR-HI1231 + 1232
CUSTOMER'S ENGINEER: Geoff Williams (2392 248251)	PREPARED BY: Ian Routledge (01904 793 666)	CONTROLLER TYPE: TBC
		SCN: TBC
MAINS SUPPLY: 230 V 50 Hz	ELV: Yes	DIMMING VOLTAGE ELV
Issue 1.0: First Issue		30/7/21
Issue 1.1: Minor updates		21/8/21
Issue 2.0: Matters outstanding WMHP-TG-SRWG1-RG-DM-0010		27/5/22
General Notes: 1. Site is a new nearside Toucan installation; 2. Tactile devices and audible devices are utilised; 3. Audible devices shall be timetabled to operate 07:00 to 22:00; 4. Red lamp monitoring for pedestrians plus other lamp monitoring shall be provided; and 5. DFM to flash on safety red lamp fail only.		
Pedestrian Detection: 1. On-crossing detection is utilised but kerbside detection is not used. RLM 1. First traffic red fail increase intergreen by 2 seconds; and 2. Double red failure switch off crossing. DFM 1. Traffic phases shall be forced active after 30 minutes active or 18 hours inactive; and 2. Pedestrian phase shall be forced active after 30 minutes active (inactive not monitored). Pre-timed maximum 1. Pre-timed maximum shall be available via a software switch initially set off.		

STREAM 1							
STAGE 1				STAGE 2			
 Stage 1 is start up and reversion stage				 Crossing width (between kerbs) = 9.7m			
Phase	Name	Min green (sec)	Max Green (secs)	Phase	Name	Min green (sec)	Max Green (secs)
A	Finchampstead Road	7	30				
B	Toucan	5	-				

TIMINGS DATA				
Period	Signal Indication		Timings (seconds)	Other Timings Information
	Pedestrian	Vehicles		
1	Red	Green	30	$P6 = [(L/1.2 + P_c) - P5] = [L/1.2]$ seconds Where: P_c (pedestrian comfort time) = 3 seconds $P5 = 3$ seconds After pedestrian green: - Minimum intergreen = $P5 + P9$ - Maximum intergreen = $P5 + P6 + P9$
2	Red	Amber	3	
3	Red	Red	Gap = 1, Force = 3	
4	Green	Red	6	
5	Red	Red	3	
6	Red	Red	8	
7	Red	Red	0	
8	Red	Red	0	
9	Red	Red + Amber	2	
Note: 1. Minimum intergreen after pedestrian green is 5 seconds and maximum 13 seconds.				

DETECTORS AND PUSH BUTTONS - LOCATIONS AND FUNCTIONS													
Reference/Description			External	Extension (secs)	Phase		Non-latching	Uni-directional	Call/cancel		DFM fail mode/Group	Speed detection	Special Instructions
					Demanded	Extended			Call delay (secs)	Cancel delay (secs)			
1.	A _{MVD1}	Pole 2	Y	0.5	A	A					A1		MVDs
2.	A _{MVD2}	Pole 4	Y	0.5	A	A					A1		
3.	B _{PUSH BUTTON 1}	Pole 1	Y		B						A2		Pushbuttons
4.	B _{PUSH BUTTON 2}	Pole 2	Y		B						A2		
5.	B _{PUSH BUTTON 3}	Pole 3	Y		B						A2		
6.	B _{PUSH BUTTON 4}	Pole 4	Y		B						A2		
7.	B _{ON-CROSSING 1}	Pole 2	Y	0.5	-						A2		On-crossing detectors
8.	B _{ON-CROSSING 2}	Pole 4	Y	0.5	-						A2		
Detector type						Group		Active (minutes)		Inactive (hours)			
Y = use input on DFM fail						1		30		18			
A = force active on DFM fail						2		30		-			
I = force inactive on DFM fail													
M = monitor input and write to fault log only													

MODE PRIORITY					
Priority	1	2	3	4	5
Mode	Selected manual	Manually selected VA	VA		-
Notes: 1. Fixed time is not implemented					