



Road Safety Audit Stage 1

Proposed access to BioPark Site

Broadwater Road

Welwyn Garden City

Hertfordshire

Date: 28th January 2021

Report produced for: i-Transport

Report produced by: M & S Traffic

DOCUMENT CONTROL SHEET

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Report Title:	Broadwater Gardens Road Safety Audit Stage 1
Date:	28 th January 2021
Document reference and revision:	i-T/21/ ITL16195/1/BS
Prepared by:	M & S Traffic
On behalf of:	Hertfordshire County Council

Distribution

Organisation	Contact	Copies
i-Transport	Melanie Dobson	-

CONTENTS

Document Control Sheet	2
Contents	3
1 Introduction	4
2 Safety issues raised at previous Audits	6
3 Items raised at the Stage 1 Audit	7
4 Issues identified during the Stage 1 Audit that are outside the terms of reference	10
5 Auditors Statement	11
Appendix A..... List of drawings	
Appendix B..... Comment location drawing	
Appendix C..... Designer's Response	

1 INTRODUCTION

1.1 This report describes a Stage 1 Road Safety Audit carried out on the proposed redevelopment of the BioPark site in Welwyn Garden City for 289 dwellings, located off Broadwater Road, Welwyn Garden City, as detailed below:

- Priority access on the western side of the carriageway at an existing access, with a pedestrian crossing point.

The Audit was requested by the design organisation, i-Transport, 85 Gresham Street, London, EC2V 7NQ on behalf of Hertfordshire County Council, as the Highway Authority.

1.2 The Audit Team membership were as follows:

Bryan Shawyer B.Eng. (Hons), MSc, MCIHT, MSoRSA, Audit Team Leader
Highways England Approved RSA Certificate of Competency

Martin Morris, PGD, MCIHT, MSoRSA, Audit Team Member
Highways England Approved RSA Certificate of Competency

1.3 The audit was undertaken in accordance with GG 119, The Design Manual for Roads and Bridges.

1.4 The Audit took place at the Gillingham offices of M&S Traffic in January 2021 and comprised an examination of the documents provided. A joint site visit was undertaken on the 25th January between 11:30 and 12:00. Weather conditions at the time were fine and the road surface was subject to snow and ice. Traffic flows were low and free flow speeds were low. There were low-level pedestrian movements and no cyclist movements. However, the audit was undertaken in the Covid-19 period.

1.5 The report has been compiled, only with regards to the safety implications for road users of the layout presented in the supplied drawings. It has not been examined or verified for compliance with any other standards or criteria. This safety audit does not perform any "Technical Check" function on these proposals. It is assumed that the Project Sponsor is satisfied that such a "Technical Check" has been successfully completed prior to requesting this safety audit.

1.6 No Departures from Standard were provided to the Audit Team. The net impact of vehicular flows at the junction were provided, considering the site's previous use as an office. It is predicted that there will be a reduction of over 30 vehicles during the morning peak hour and circa 10 fewer vehicles during the evening peak hour, and no significant change in overall vehicle trips across a 12-hour day. Personal Injury Collision (PIC) data was been obtained for the most recent available five-year period, where there have been no recorded collisions at the existing access. However, there were four collisions at junctions on this section of Broadwater Road in this 5-year period, 2 serious and 2 slights, where three of the collisions involved right turn manoeuvres.

- 1.7 All comments and recommendations are referenced to the detailed drawings and the locations have been detailed relating to the plans supplied with the audit brief, Appendix B.

2 SAFETY ISSUES RAISED AT PREVIOUS AUDITS

2.1 No previous audits were supplied for assessment.

3 ITEMS RAISED AT THE STAGE 1 AUDIT

3.1 General

3.1.1 PROBLEM

Location: Proposed junction with Broadwater Road.

Summary: Insufficient construction details could lead to overshoot collisions or vehicle to pedestrian collisions.

No construction details were provided for assessment, in particular, details of carriageway construction, where it appears that pavements are to be used on the access road off the junction. Inappropriate Polished Paver Test Values (PPTV) could lead to overshoot collisions or vehicle to pedestrian collisions at the crossing point.

RECOMMENDATION

It is recommended that PPTV details should be checked to ensure they provide adequate grip resistance for the speed of road. Further, that construction details should be supplied for assessment at Stage 2 Safety Audit.

3.2 Local Alignment

3.2.1 No comment.

3.3 Junctions

3.3.1 PROBLEM

Location: Proposed junction with Broadwater Road.

Summary: Lack of visibility could lead to rear end shunt collisions or side impact collisions.

Visibility splays were provided for assessment, where a bus stop is located within the northern splay, see figure 1 overleaf. There have been four collisions at junctions on this section of Broadwater Road in the 5-year period of available collision data, where three of the collisions involved right turn manoeuvres. One of these collisions involved a parked good vehicle at the junction, which obscured visibility. There is concern that a stationary bus may restrict visibility at the access, which could lead to side impact collisions or rear end shunts.



Figure 1: Bus stop in northern visibility splay.

RECOMMENDATION

It is recommended that bus stop should be located out of the visibility splay.

3.3.2 **PROBLEM**

Location: Proposed junction with Broadwater Road.

Summary: Insufficient carriageway space may lead to head on collisions or side swipe collisions.

Vehicle swept paths have been provided for assessment, where the refuse vehicle tracking shows incursion into the opposing carriageway when starting the left turn manoeuvre. This could cause conflict with vehicles travelling in the opposing direction leading to possible head on collisions or side swipe collisions.

RECOMMENDATION

It is recommended that the junction radius should be eased to provide increased carriageway space for all expected vehicle movements.

3.4 Non-Motorised User Provision

3.4.1 PROBLEM

Location: Proposed junction with Broadwater Road

Summary: Existing gullies may lead to pedestrian trips and falls or cyclist loss of control collisions.

There are existing gullies, at the proposed pedestrian crossing points at the junction, see figure 2 below. These may lead to pedestrian trips and falls, or cyclist loss of control collisions.



Figure 2: Existing gullies at proposed crossing.

RECOMMENDATION

It is recommended that the gullies should be relocated away from the crossing or that pedestrian / cyclist friendly gully covers should be installed.

3.5 Road Signs, Carriageway Markings and Lighting

3.5.1 No comment.

4 ISSUES IDENTIFIED DURING THE STAGE 1 AUDIT THAT ARE OUTSIDE THE TERMS OF REFERENCE

- 4.1 Safety issues identified during the audit and site inspection that are considered to be outside the Terms of Reference, but which the Audit Team wishes to draw to the attention of the Client Organisation, are set out in this section. It is to be understood that, in raising these issues, the Audit Team in no way warrant that a full review of the highway environment has been undertaken beyond that necessary to undertake the Audit as commissioned.
- 4.2 No issues were identified by the audit team.

5 AUDITOR TEAM STATEMENT

5.1 We certify that this audit has been carried out in accordance with GG 119.

Audit Team Leader

Bryan Shawyer
BEng (Hons), MSc, MCIHT, MSoRSA
Highways England Approved RSA Certificate of Competency
M & S Traffic Ltd
Aeolus House
32 Hamelin Road
Gillingham
Kent ME7 3EX

Signed:

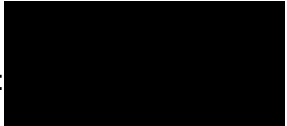


Date: 28/01/2021

Audit Team Member

Martin Morris
PGD, MCIHT, MSoRSA
Highways England Approved RSA Certificate of Competency
M & S Traffic Ltd
Aeolus House
32 Hamelin Road
Gillingham
Kent ME7 3EX

Signed:



Date: 28/01/2021

APPENDIX A

List of drawings and documentation submitted for auditing:

Drawing Number	Title
ITL16195-GA-001 C	Vehicle Track Analysis - Refuse Vehicle
ITL16195-GA-004 A	Proposed Site Layout - Swept Path Analysis - Fire Tender
ITL16195-GA-006 A	Vehicle Track Analysis - 7.5t Box Van
ITL16195-GA-010	Site Access Vehicle Track Analysis – Refuse Vehicle
BMD.20.044.DR.P002	Colour Rendered Landscape Masterplan

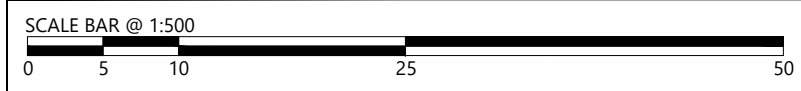
Supporting Documentation:

- Road Safety Audit Information, i-Transport, January 2021.
- 5-year collision data for the period 01/07/15 to 30/06/20.
- Automatic Traffic Count, Intelligent Data Collection, November 2020.



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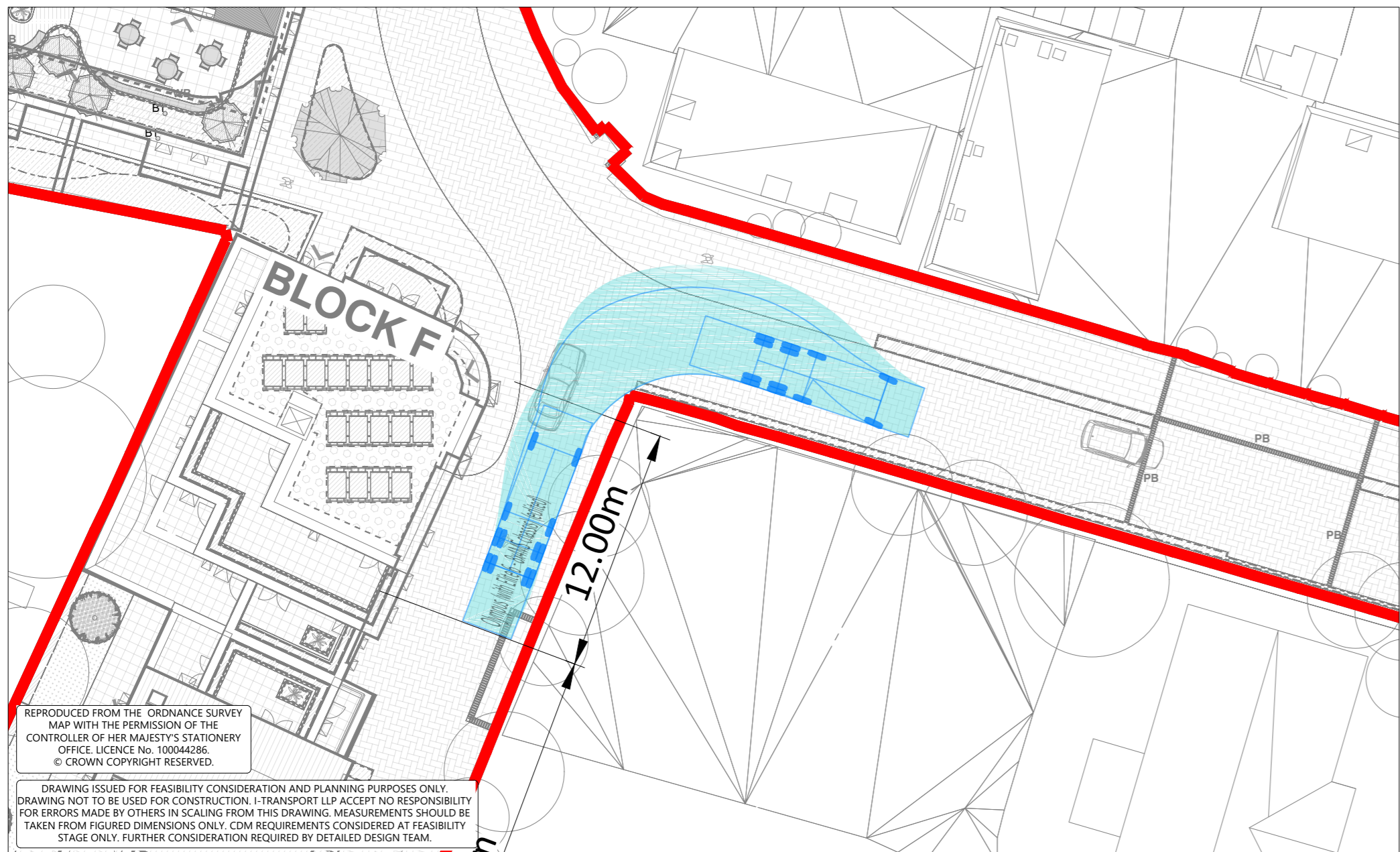


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A		11.12.20	JMc	UPDATED SITE LAYOUT	MD	NM	TITLE: SITE ACCESS VEHICLE TRACK ANALYSIS	
REV	DATE	BY	DESCRIPTION	CHK	APD	PROJECT:	CLIENT:	
			FOR INFORMATION			BROADWATER GARDENS	WELWYN PARK HOMES LTD	

DRAWN:	CHECKED:	APPROVED:
JMc	MD	NM
PROJECT No:	SCALE @ A3:	DATE:
ITL16195	1:500	24.11.20
DRAWING No:	REV:	
ITL16195-GA-005	A	



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			FOR INFORMATION			BROADWATER GARDENS	VEHICLE TRACK ANALYSIS - REFUSE VEHICLE	WELWYN PARK HOMES LTD	JMc	MD	NM	ITL16195	1:500	30.11.20	ITL16195-GA-001	C



KEY:

- 18m RADIUS FROM FIRE APPLIANCE
- 57.3m FIRE HOSE DISTANCE

SCALE BAR @ 1:500

0 5 10 25 50

Pumping Appliance
 Overall Length 7.900m
 Overall Width 2.500m
 Overall Body Height 3.300m
 Min Body Ground Clearance 0.350m
 Track Width 2.500m
 Lock to lock time 4.00s
 Kerb to kerb Turning Radius 7.750m

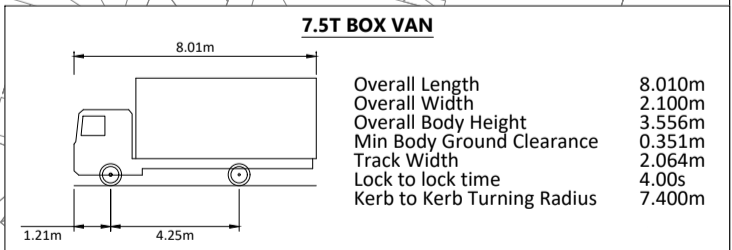
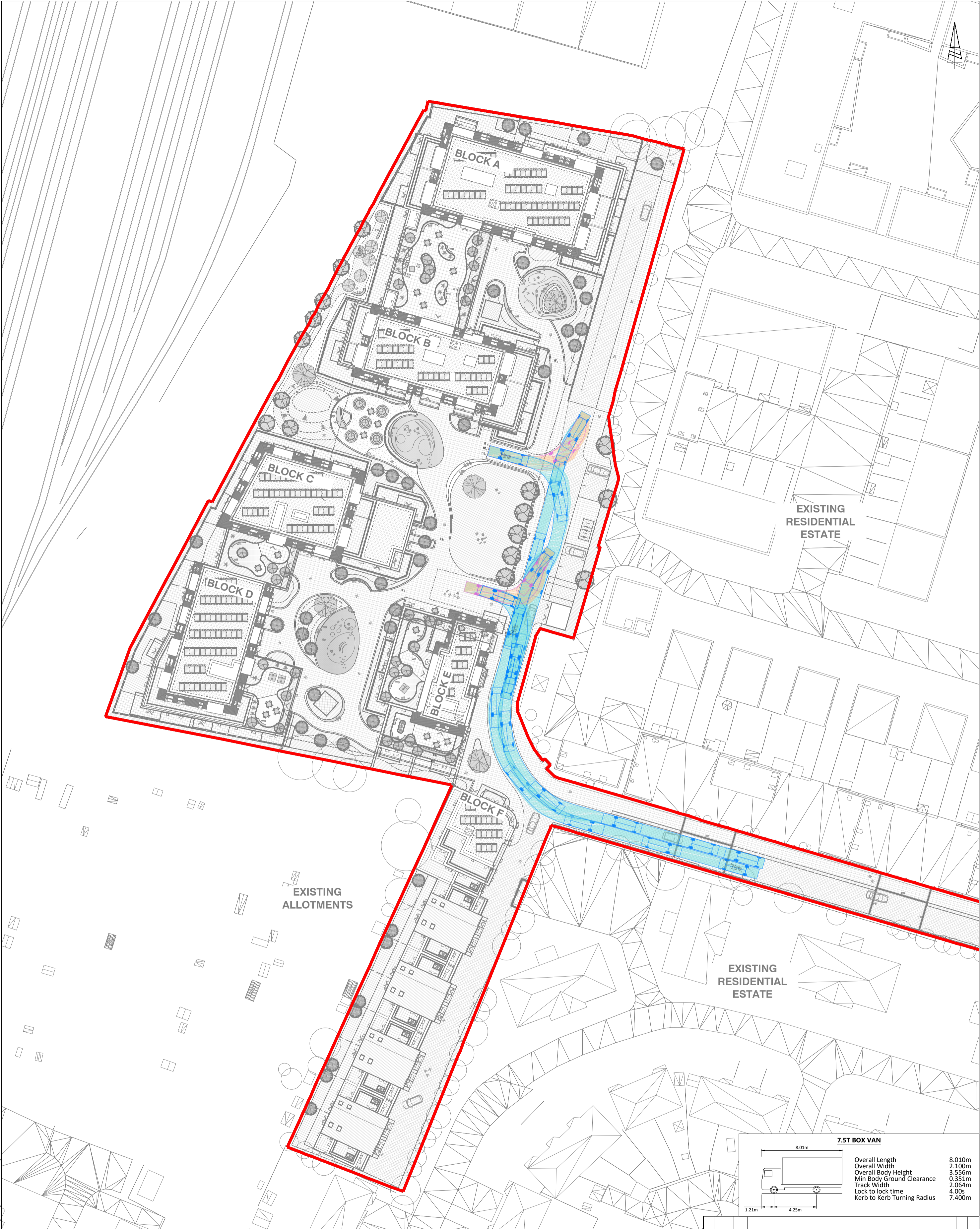


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A 11.12.20 JMC UPDATED SITE LAYOUT REV DATE BY DESCRIPTION STATUS				MD NM CHK APP PROJECT FOR INFORMATION				TITLE PROPOSED SITE LAYOUT - SWEEP PATH ANALYSIS - FIRE TENDER				CLIENT WELWYN PARK HOMES			
				BROADWATER GARDENS								DRAWING No: ITL16195-004 SCALE @ A1: 1:500 DATE: 19.11.20 REV: A			
												DRAWING No: ITL16195-004 SCALE @ A1: 1:500 DATE: 19.11.20 REV: A			



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CLIENT: WELWYN PARK HOMES

TITLE: VEHICLE TRACK ANALYSIS - 7.5t BOX VAN

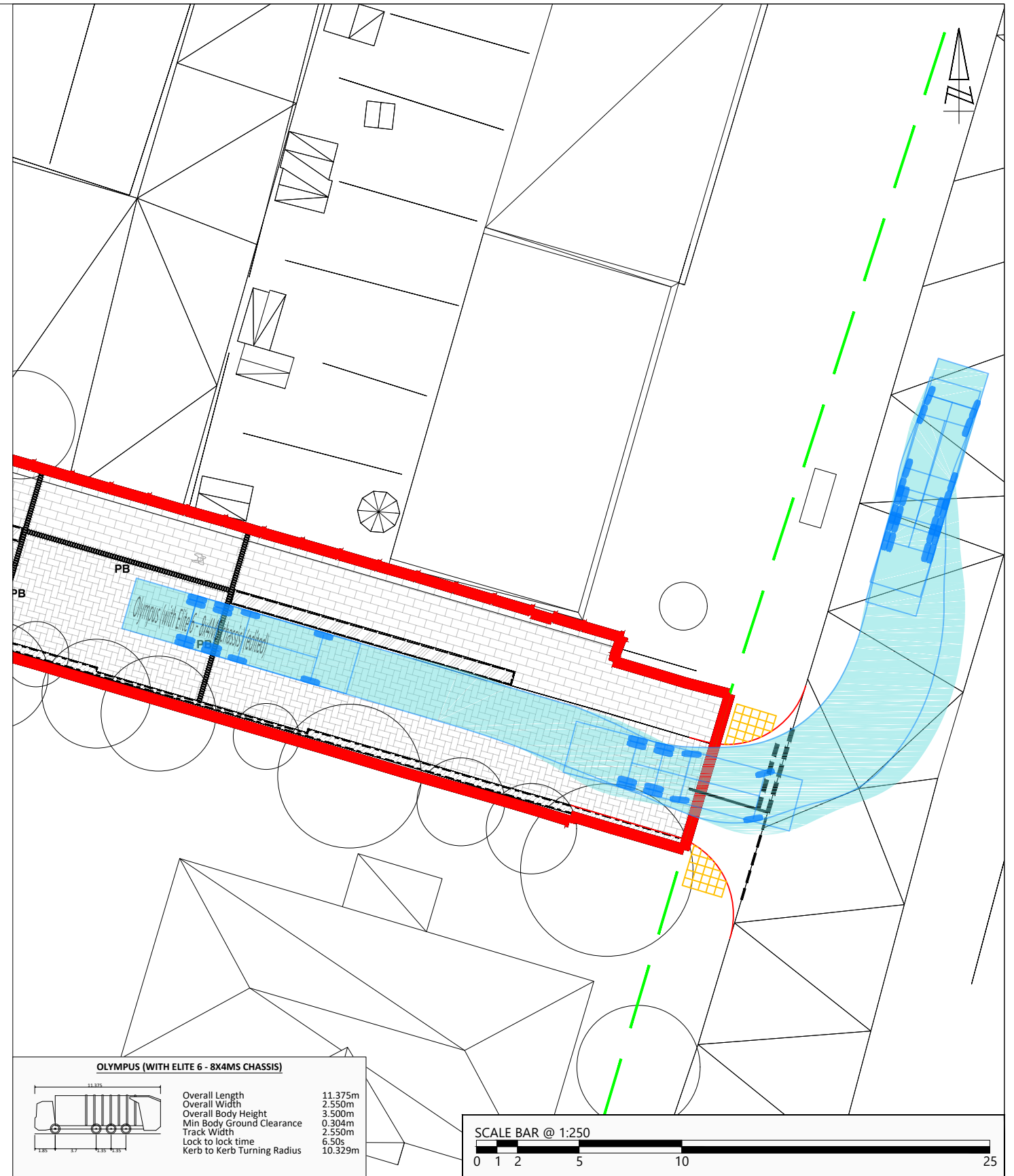
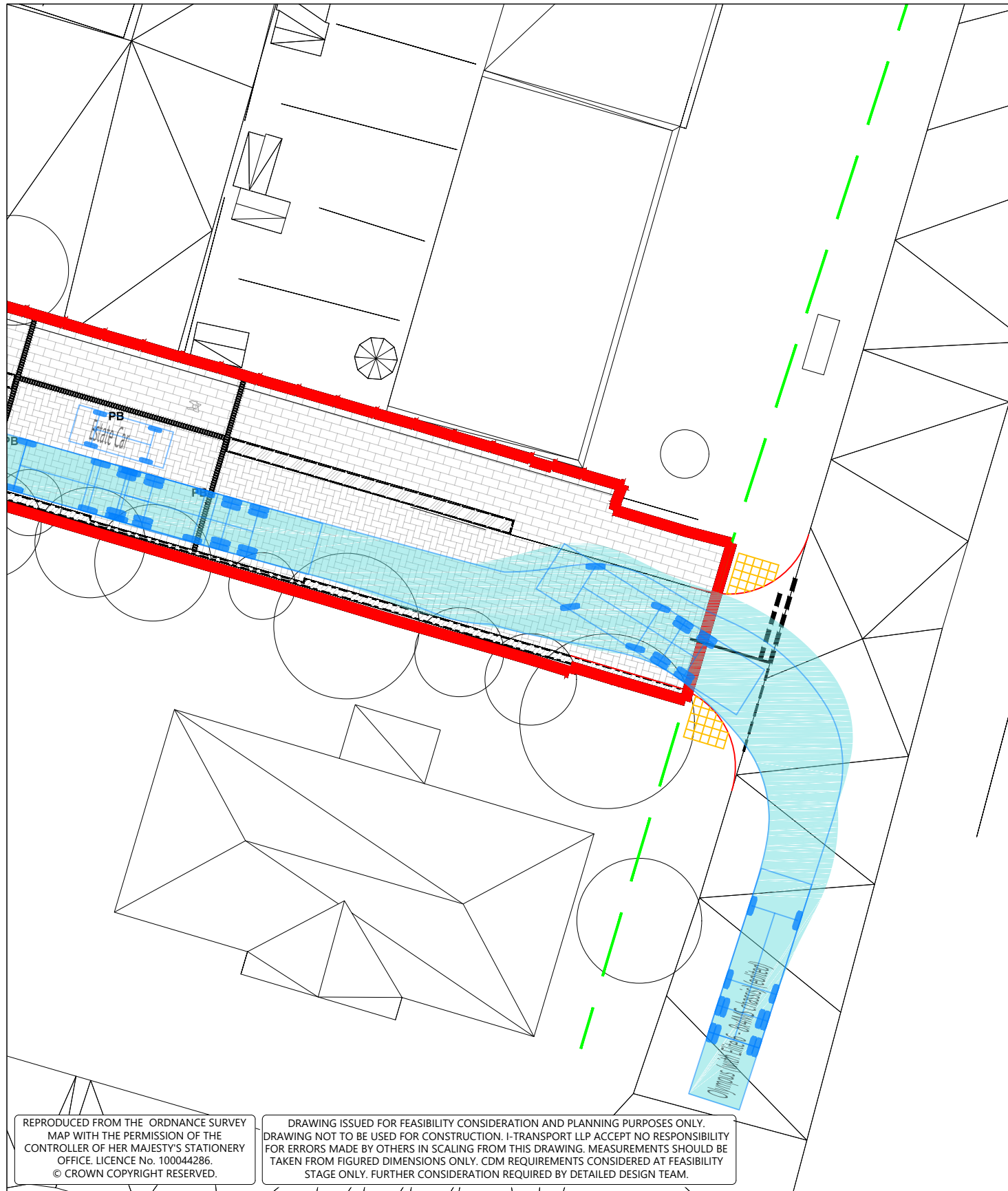
PROJECT: BROADWATER GARDENS

REV	DATE	BY	DESCRIPTION	CHK	APP
A	11.12.20	JMc	UPDATED SITE LAYOUT	MD	NM
STATUS: FOR INFORMATION					
DRAWN: JMc		CHECKED: MD		APPROVED: NM	
PROJECT No: ITL16195		SCALE @ A2: 1:500		DATE: 25.11.20	
DRAWING No: ITL16195-GA-006					REV: A



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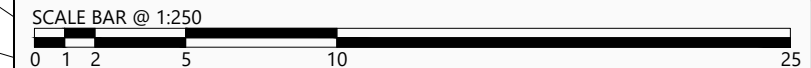


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OLYMPUS (WITH ELITE 6 - 8X4MS CHASSIS)

Overall Length	11.375m
Overall Width	2.550m
Overall Body Height	3.500m
Min Body Ground Clearance	0.304m
Track Width	2.550m
Lock to lock time	6.50s
Kerb to kerb Turning Radius	10.329m



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REV	DATE	BY	DESCRIPTION	CHK	APD
STATUS: FOR INFORMATION					

TITLE:	SITE ACCESS VEHICLE TRACK ANALYSIS - REFUSE VEHICLE	
PROJECT:	BROADWATER GARDENS	WELWYN PARK HOMES LTD
CLIENT:	WELWYN PARK HOMES LTD	

DRAWN:	JMc	CHECKED:	MD	APPROVED:	NM
PROJECT No:	ITL16195	SCALE @ A3:	1:250	DATE:	26.01.21
DRAWING No:	ITL16195-GA-010			REV:	

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- NOTES:
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Client



HG GROUP

Project
BROADWATER GARDENS, WELWYN GARDEN CITY

Drawing Title
COLOUR RENDERED LANDSCAPE MASTERPLAN

Drawn	Checked	Approved	Date
RR	MP	RW	14/12/2020

Job No.	Scale	Sheet Size	Revision
20.44	1:500	A1	-

Drawing Number
BMD.20.044.DR.P002



Stage 1 Road Safety Audit Information

Development Proposal

Redevelopment of the BioPark site in Welwyn Garden City for 289 dwellings. The proposal includes a mix of townhouses and flats.

Site Location

Image 1: Site Location Plan



Traffic Conditions

An Automatic Traffic Counter (ATC) was installed to record traffic speeds, classifications, and volumes on Broadwater Road for a period of seven days (8 November 2020 to 14 November 2020).

Vehicle Speeds

A summary of the 85th percentile (85thile) design speeds recorded along Broadwater Road is summarised in Table 1.

Table 1: Summary of Traffic Speeds – Broadwater Road

Direction	85 th %tile Design Speeds (mph)
Northbound	28.8 mph
Southbound	28.5 mph

Vehicle Counts

A summary of the peak hour, and daily, vehicle volumes along Broadwater Road is presented in Table 2.

Table 2: Summary of Broadwater Road Traffic Flows

	Total Vehicles – Observed			Total Vehicles – Factored by 33%*		
	North-bound	South-bound	Two-Way	North-bound	South-bound	Two-Way
Morning Peak Hour (0800-0900)	454	360	814	604	478	1,083
Evening Peak Hour (1700-1800)	366	423	789	487	563	1,050
Daily (0700-1900)	4,553	4,399	8,952	6,055	5,851	11,906

*Flows factored by 33% to reflect November 2019 levels as the ATC was placed during November 2020 and therefore impacted by Covid-19 travel pattern changes

Road Safety – PIA Data

The most recently available (at the time of request) Personal Injury Accident (PIA) data has been obtained from HCC from 1 July 2015 to 30 June 2020. The study area includes the length of Broadwater Road from its junction with Bridge Road to the north to the A6129 in the south as agreed with HCC.

The PIA data details there were a total of 21 PIAs recorded. This included eight PIAs resulting in serious injuries and 13 PIAs resulting in slight injuries. There were no fatal PIAs recorded and no accidents recorded at the site access.

Proposed Vehicular Trip Generation

The proposed vehicular trip generation of the development is summarised in Table 3.

Table 3: Proposed Residential Trip Rates and Trip Generation – Private Flats

	Morning Peak Hour (0800-0900)			Evening Peak Hour (1700-1800)			12 Hour (0700-1900)		
	Arr	Dep	Two-Way	Arr	Dep	Two-Way	Arr	Dep	Two-Way
Vehicles									
Trip Rates (per dwelling)	0.06	0.18	0.24	0.18	0.10	0.28	1.18	1.22	2.40
Trip Generation (300 Units)	17	54	71	54	29	83	355	365	721

Net Impact

The net impact of vehicular flows at the junction, taking into account the site's previous use as an office, is presented in Table 4.

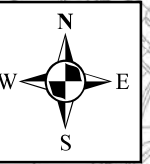
Table 4: Net Impact

	Morning Peak Hour (0800-0900)			Evening Peak Hour (1700-1800)			12 Hour (0700-1900)		
	Arr	Dep	Two-Way	Arr	Dep	Two-Way	Arr	Dep	Two-Way
Vehicles									
Existing	122	15	137	13	106	119	469	458	928
Proposed	17	85	103	74	35	109	453	466	919
Difference	-105	+70	-34	+61	-71	-10	-16	+8	-9

The results demonstrate:

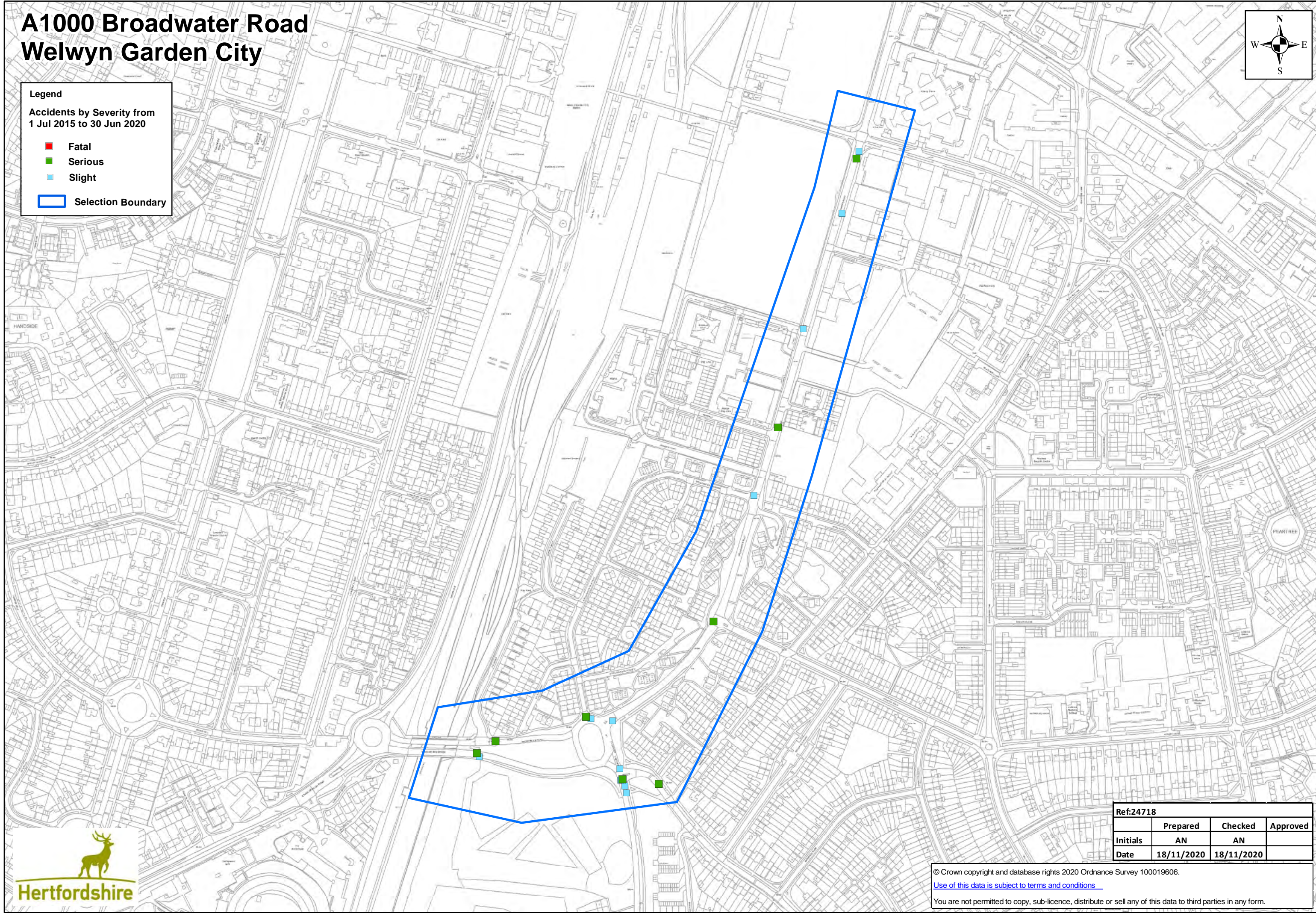
- an overall reduction in two-way vehicle trips across the day and during the network peak hours, including:
 - a reduction of over 30 vehicles during the morning peak hour;
 - circa 10 fewer vehicles during the evening peak hour; and
 - no significant change in overall vehicle trips across a 12 hour day.

A1000 Broadwater Road Welwyn Garden City



Legend
Accidents by Severity from
1 Jul 2015 to 30 Jun 2020

- Fatal
- Serious
- Slight
- Selection Boundary



Ref:24718			
	Prepared	Checked	Approved
Initials	AN	AN	
Date	18/11/2020	18/11/2020	

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Full Non Confidential Accident Report

Date Produced: 18-Nov-20

Set Name (if saved) : 24718

Set Total : 21

Accident Details:

Acc Ref:	2019-410916076	1st / 2nd Rd:	A1000/8 0U1346/	Jun Detail:	T	Weather:	Other	Num Cas:	1
Day of Week:	Fri	Parish:		Jun Control:	Giveaway	Light:	Day	Num Peds:	0
Date:	18/10/2019 17:30:00	District:	WelHat	Spec Conditions:	None	Road Surface:	Dry	Num Vehicles:	2
Acc Severity:	Slight	Speed Limit:	30mph	C/way Hazard:	None	C/way Type:	Single	Ped Xing:	Npernox
A1000 Broadwater Road Welwyn Garden City J/w U1346 Broadwater Crescent								On Site:	Yes
Easting:	524122	Northing:	212397						

Casualty Details

Acc Ref:	2019-410916076	Cas Class:	Passenge	Car Passenger:	Frontsea	Cas Severity:	Slight	Ped Movement:	Notped
Veh Ref:	2	Cas Age:	49	PSV Passenger:	No	Road User Class:	Car Users	Ped Location:	Notped
Cas Ref:	1	Cas Gender:	Female	Seat Belt:	Unknown	School Pupil:		Ped Work on Rd:	Notped

Vehicle Details

Acc Ref:	154236	Manoeuvre:	Starting	Skidding:	None	Impact Point:	Front	Driver Breath Test:	Notreq	Driver Age:	57
Veh Ref:	1	Location:	Carw	Object in Cway:	None	From:	Nw	Hit and Run:	Nothtrun		
Veh Type:	Goodsuk	Junction:	Emain	Object off Cway:	None	To:	Se	Driver Gender:	Male		
Foreign Veh:		Towing;	None	velwy	No	J Purpose:	Work	Driver Severity:	None		
Acc Ref:		Manoeuvre:	Ahead	Skidding:	None	Impact Point:	Nearside	Driver Breath Test:	Notreq	Driver Age:	59
Veh Ref:	2	Location:	Carw	Object in Cway:	None	From:	Sw	Hit and Run:	Nothtrun		
Veh Type:	Car	Junction:	Middle	Object off Cway:	None	To:	Ne	Driver Gender:	Male		
Foreign Veh:		Towing;	None	velwy	No	J Purpose:	Other	Driver Severity:	None		

Accident Details:

Acc Ref: 2019-410886126	1st / 2nd Rd: A1000/8 NONE	Jun Detail: Notjunct	Weather: Fine	Num Cas: 1
Day of Week: Tue	Parish:	Jun Control: Notjunct	Light: Day	Num Peds: 0
Date: 08/10/2019 08:20:00	District: WelHat	Spec Conditions: None	Road Surface: Dry	Num Vehicles: 2
Acc Severity: Slight	Speed Limit: 40mph	C/way Hazard: None	C/way Type: Single	Ped Xing: Npernox
A1000 Broadwater Road Welwyn Garden City Approx 45m North J/w U1596 Broad Court				On Site: No
Easting: 524231	Northing: 212746			

Casualty Details

Acc Ref: 2019-410886126	Cas Class: Driver	Car Passenger: No	Cas Severity: Slight	Ped Movement: Notped
Veh Ref: 2	Cas Age: 50	PSV Passenger: No	Road User Class: Cyclists	Ped Location: Notped
Cas Ref: 2	Cas Gender: Male	Seat Belt: Notapp	School Pupil:	Ped Work on Rd: Notped

Vehicle Details

Acc Ref: 153455	Manoeuvre: Ahead	Skidding: None	Impact Point: Nearside	Driver Breath Test: Notcon	Driver Age: 41
Veh Ref: 1	Location: Carw	Object in Cway: None	From: N	Hit and Run: Hit&run	
Veh Type: Car	Junction: Notjunct	Object off Cway None	To: S	Driver Gender: Male	
Foreign Veh:	Towing; None	velewy No	J Purpose: Unknown	Driver Severity: None	
<hr/>					
Acc Ref:	Manoeuvre: Ahead	Skidding: None	Impact Point: Offside	Driver Breath Test: Notap	Driver Age: 50
Veh Ref: 2	Location: Carw	Object in Cway: None	From: N	Hit and Run: Nothrun	
Veh Type: Bicycle	Junction: Notjunct	Object off Cway None	To: S	Driver Gender: Male	
Foreign Veh:	Towing; None	velewy No	J Purpose: Unknown	Driver Severity: Slight	

Accident Details:

Acc Ref: 2019-410895358	1st / 2nd Rd: A1000/1 0U752/1	Jun Detail: T	Weather: Rain	Num Cas: 1
Day of Week: Thu	Parish:	Jun Control: Giveway	Light: Day	Num Peds: 0
Date: 03/10/2019 07:21:00	District: WelHat	Spec Conditions: None	Road Surface: Wet	Num Vehicles: 2
Acc Severity: Slight	Speed Limit: 30mph	C/way Hazard: None	C/way Type: Single	Ped Xing: Npernox
A1000 Chequers Welwyn Garden City J/w U752 Woodhall Lane				On Site: Yes
Eastings: 523959	Northing: 212045			

Casualty Details

Acc Ref: 2019-410895358	Cas Class: Driver	Car Passenger: No	Cas Severity: Slight	Ped Movement: Notped
Veh Ref: 2	Cas Age: 41	PSV Passenger: No	Road User Class: Cyclists	Ped Location: Notped
Cas Ref: 1	Cas Gender: Male	Seat Belt: Notapp	School Pupil:	Ped Work on Rd: Notped

Vehicle Details

Acc Ref: 153594	Manoeuvre: Turnrigh	Skidding: None	Impact Point: Front	Driver Breath Test: Notreq	Driver Age: 49
Veh Ref: 1	Location: Carw	Object in Cway: None	From: E	Hit and Run: Nothtrun	
Veh Type: Car	Junction: Emain	Object off Cway: None	To: N	Driver Gender: Male	
Foreign Veh:	Towing: None	velewy: No	J Purpose: Tofrowrk	Driver Severity: None	
<hr/>					
Acc Ref:	Manoeuvre: Ahead	Skidding: None	Impact Point: Nearside	Driver Breath Test: Notap	Driver Age: 41
Veh Ref: 2	Location: Carw	Object in Cway: None	From: N	Hit and Run: Nothtrun	
Veh Type: Bicycle	Junction: Middle	Object off Cway: None	To: S	Driver Gender: Male	
Foreign Veh:	Towing: None	velewy: No	J Purpose: Tofrowrk	Driver Severity: Slight	

Accident Details:

Acc Ref: 2018-410322933	1st / 2nd Rd: A6129/1 NONE	Jun Detail: Notjunct	Weather: Fine	Num Cas: 1
Day of Week: Tue	Parish:	Jun Control: Notjunct	Light: Day	Num Peds: 0
Date: 26/06/2018 20:01:00	District: WelHat	Spec Conditions: None	Road Surface: Dry	Num Vehicles: 2
Acc Severity: Slight	Speed Limit: 40mph	C/way Hazard: None	C/way Type: Dual	Ped Xing: Nperpex
A6129 Broadwater Road Welwyn Garden City Approx 145m West J/w A1000 Chequers Rbt				On Site: Yes
Eastings: 523782	Northing: 212074			

Casualty Details

Acc Ref: 2018-410322933	Cas Class: Driver	Car Passenger: No	Cas Severity: Slight	Ped Movement: Notped
Veh Ref: 1	Cas Age: 56	PSV Passenger: No	Road User Class: Cyclists	Ped Location: Notped
Cas Ref: 1	Cas Gender: Male	Seat Belt: Notapp	School Pupil:	Ped Work on Rd: Notped

Vehicle Details

Acc Ref: 151309	Manoeuvre: Ahead	Skidding: None	Impact Point: Back	Driver Breath Test: Notap	Driver Age: 56
Veh Ref: 1	Location: Carw	Object in Cway: None	From: S	Hit and Run: Nothtrun	
Veh Type: Bicycle	Junction: Notjunct	Object off Cway: None	To: N	Driver Gender: Male	
Foreign Veh:	Towing: None	velewy: No	J Purpose: Other	Driver Severity: Slight	

Acc Ref:	Manoeuvre: Ahead	Skidding: None	Impact Point: Front	Driver Breath Test: Notreq	Driver Age: 31
Veh Ref: 2	Location: Carw	Object in Cway: None	From: E	Hit and Run: Nothtrun	
Veh Type: Gdltwght	Junction: Notjunct	Object off Cway: None	To: W	Driver Gender: Male	
Foreign Veh:	Towing: None	velewy: No	J Purpose: Unknown	Driver Severity: None	

Accident Details:

Acc Ref: 2018-410323122 **1st / 2nd Rd:** A1000/8 0U1778/ **Jun Detail:** T **Weather:** Fine **Num Cas:** 2
Day of Week: Wed **Parish:** **Jun Control:** Giveway **Light:** Day **Num Peds:** 0
Date: 13/06/2018 14:00:00 **District:** WelHat **Spec Conditions:** None **Road Surface:** Dry **Num Vehicles:** 3
Acc Severity: Slight **Speed Limit:** 30mph **C/way Hazard:** None **C/way Type:** Single **Ped Xing:** Nperpelx
A1000 Broadwater Road Welwyn Garden City J/w U1778 Otto Road **On Site:** Yes
Eastings: 524183 **Northing:** 212603

Casualty Details

Acc Ref: 2018-410323122 **Cas Class:** Driver **Car Passenger:** No **Cas Severity:** Slight **Ped Movement:** Notped
Veh Ref: 2 **Cas Age:** 26 **PSV Passenger:** No **Road User Class:** Car Users **Ped Location:** Notped
Cas Ref: 2 **Cas Gender:** Female **Seat Belt:** Unknown **School Pupil:** **Ped Work on Rd:** Notped

Acc Ref: 2018-410323122 **Cas Class:** Passenge **Car Passenger:** Frontsea **Cas Severity:** Slight **Ped Movement:** Notped
Veh Ref: 1 **Cas Age:** 68 **PSV Passenger:** No **Road User Class:** Car Users **Ped Location:** Notped
Cas Ref: 3 **Cas Gender:** Female **Seat Belt:** Unknown **School Pupil:** **Ped Work on Rd:** Notped

Vehicle Details

Acc Ref: 151307 **Manoeuvre:** Otakesta **Skidding:** None **Impact Point:** Nearside **Driver Breath Test:** Notreq **Driver Age:** 70
Veh Ref: 1 **Location:** Carw **Object in Cway:** None **From:** S **Hit and Run:** Nothtrun
Veh Type: Car **Junction:** Middle **Object off Cway:** None **To:** N **Driver Gender:** Male
Foreign Veh: **Towing:** None **velwey:** No **J Purpose:** Other **Driver Severity:** None

Acc Ref: **Manoeuvre:** Turnrigh **Skidding:** None **Impact Point:** Front **Driver Breath Test:** Notreq **Driver Age:** 26
Veh Ref: 2 **Location:** Carw **Object in Cway:** None **From:** E **Hit and Run:** Nothtrun
Veh Type: Car **Junction:** Emain **Object off Cway:** None **To:** S **Driver Gender:** Female
Foreign Veh: **Towing:** None **velwey:** No **J Purpose:** Other **Driver Severity:** Slight

Acc Ref: **Manoeuvre:** Parked **Skidding:** None **Impact Point:** None **Driver Breath Test:** Notcon **Driver Age:** 46
Veh Ref: 3 **Location:** Carw **Object in Cway:** None **From:** P **Hit and Run:** Nothtrun
Veh Type: Goodsuk **Junction:** Approach **Object off Cway:** None **To:** P **Driver Gender:** Male
Foreign Veh: **Towing:** None **velwey:** No **J Purpose:** Unknown **Driver Severity:** None

Accident Details:

Acc Ref: 2018-410292729 **1st / 2nd Rd:** A1000/8 NONE **Jun Detail:** Notjunct **Weather:** Fine **Num Cas:** 2
Day of Week: Tue **Parish:** **Jun Control:** Notjunct **Light:** Day **Num Peds:** 0
Date: 27/03/2018 11:15:00 **District:** WelHat **Spec Conditions:** None **Road Surface:** Dry **Num Vehicles:** 3
Acc Severity: Serious **Speed Limit:** 30mph **C/way Hazard:** None **C/way Type:** Single **Ped Xing:** Nperpelx
A1000 Broadwater Road Welwyn Garden City Approx 30m South Xrds J/w U389 Hydeway **On Site:** Yes
Eastings: 524249 **Northing:** 212814

Casualty Details

Acc Ref: 2018-410292729 **Cas Class:** Driver **Car Passenger:** No **Cas Severity:** Serious **Ped Movement:** Notped
Veh Ref: 1 **Cas Age:** 67 **PSV Passenger:** No **Road User Class:** Car Users **Ped Location:** Notped
Cas Ref: 1 **Cas Gender:** Female **Seat Belt:** Wornind **School Pupil:** **Ped Work on Rd:** Notped

Acc Ref: 2018-410292729 **Cas Class:** Driver **Car Passenger:** No **Cas Severity:** Serious **Ped Movement:** Notped
Veh Ref: 3 **Cas Age:** 62 **PSV Passenger:** No **Road User Class:** Goods Vehicles **Ped Location:** Notped
Cas Ref: 2 **Cas Gender:** Female **Seat Belt:** Wornind **School Pupil:** **Ped Work on Rd:** Notped

Vehicle Details

Acc Ref: 150876 **Manoeuvre:** Ahead **Skidding:** None **Impact Point:** Front **Driver Breath Test:** Negati **Driver Age:** 67
Veh Ref: 1 **Location:** Carw **Object in Cway:** None **From:** S **Hit and Run:** Nothtrun
Veh Type: Car **Junction:** Notjunct **Object off Cway:** None **To:** N **Driver Gender:** Female
Foreign Veh: **Towing:** None **velwy:** No **J Purpose:** Other **Driver Severity:** Serious

Acc Ref: **Manoeuvre:** Ahead **Skidding:** None **Impact Point:** Offside **Driver Breath Test:** Negati **Driver Age:** 39
Veh Ref: 2 **Location:** Carw **Object in Cway:** None **From:** N **Hit and Run:** Nothtrun
Veh Type: Gdltwght **Junction:** Notjunct **Object off Cway:** None **To:** S **Driver Gender:** Male
Foreign Veh: **Towing:** None **velwy:** No **J Purpose:** Work **Driver Severity:** None

Acc Ref: **Manoeuvre:** Ahead **Skidding:** None **Impact Point:** Front **Driver Breath Test:** Negati **Driver Age:** 62
Veh Ref: 3 **Location:** Carw **Object in Cway:** None **From:** N **Hit and Run:** Nothtrun
Veh Type: Gdltwght **Junction:** Notjunct **Object off Cway:** None **To:** S **Driver Gender:** Female
Foreign Veh: **Towing:** None **velwy:** No **J Purpose:** Work **Driver Severity:** Serious

Accident Details:

Acc Ref: 2018-410287618	1st / 2nd Rd: A6129/1 0U1616/	Jun Detail: T	Weather: Fine	Num Cas: 1
Day of Week: Fri	Parish:	Jun Control: Ats	Light: Day	Num Peds: 0
Date: 09/03/2018 15:23:00	District: WelHat	Spec Conditions: None	Road Surface: Dry	Num Vehicles: 2
Acc Severity: Serious	Speed Limit: 30mph	C/way Hazard: None	C/way Type: Single	Ped Xing: Nperpex
A6129 Broadwater Road Welwyn Garden City J/w U1616 The Reeds				On Site: Yes
Eastings: 523802	Northing: 212093			

Casualty Details

Acc Ref: 2018-410287618	Cas Class: Driver	Car Passenger: No	Cas Severity: Serious	Ped Movement: Notped
Veh Ref: 2	Cas Age: 13	PSV Passenger: No	Road User Class: Cyclists	Ped Location: Notped
Cas Ref: 1	Cas Gender: Male	Seat Belt: Notapp	School Pupil:	Ped Work on Rd: Notped

Vehicle Details

Acc Ref: 150463	Manoeuvre: Ahead	Skidding: None	Impact Point: Front	Driver Breath Test: Negati	Driver Age: 26
Veh Ref: 1	Location: Carw	Object in Cway: None	From: W	Hit and Run: Nothtrun	
Veh Type: Car	Junction: Exit	Object off Cway: None	To: E	Driver Gender: Male	
Foreign Veh:	Towing; None	velewy No	J Purpose: Tofrowrk	Driver Severity: None	
<hr/>					
Acc Ref:	Manoeuvre: Ahead	Skidding: None	Impact Point: Front	Driver Breath Test: Notap	Driver Age: 13
Veh Ref: 2	Location: Carw	Object in Cway: None	From: E	Hit and Run: Nothtrun	
Veh Type: Bicycle	Junction: Exit	Object off Cway: None	To: W	Driver Gender: Male	
Foreign Veh:	Towing; None	velewy No	J Purpose: Ridesch	Driver Severity: Serious	

Accident Details:

Acc Ref: 2018-410262046	1st / 2nd Rd: A1000/1 0U752/1	Jun Detail: T	Weather: Fine	Num Cas: 3
Day of Week: Tue	Parish:	Jun Control: Giveway	Light: Darklit	Num Peds: 0
Date: 16/01/2018 20:44:00	District: WelHat	Spec Conditions: None	Road Surface: Dry	Num Vehicles: 2
Acc Severity: Slight	Speed Limit: 30mph	C/way Hazard: None	C/way Type: Single	Ped Xing: Npercntr
A1000 Chequers Welwyn Garden City J/w U752 Woodhall Lane				On Site: Yes
Eastings: 523960	Northing: 212046			

Casualty Details

Acc Ref: 2018-410262046	Cas Class: Driver	Car Passenger: No	Cas Severity: Slight	Ped Movement: Notped
Veh Ref: 1	Cas Age: 42	PSV Passenger: No	Road User Class: Car Users	Ped Location: Notped
Cas Ref: 1	Cas Gender: Male	Seat Belt: Wornnot	School Pupil:	Ped Work on Rd: Notped
<hr/>				
Acc Ref: 2018-410262046	Cas Class: Driver	Car Passenger: No	Cas Severity: Slight	Ped Movement: Notped
Veh Ref: 2	Cas Age: 24	PSV Passenger: No	Road User Class: Car Users	Ped Location: Notped
Cas Ref: 2	Cas Gender: Male	Seat Belt: Wornnot	School Pupil:	Ped Work on Rd: Notped
<hr/>				
Acc Ref: 2018-410262046	Cas Class: Passenge	Car Passenger: Frontsea	Cas Severity: Slight	Ped Movement: Notped
Veh Ref: 1	Cas Age: 13	PSV Passenger: No	Road User Class: Car Users	Ped Location: Notped
Cas Ref: 3	Cas Gender: Female	Seat Belt: Wornnot	School Pupil:	Ped Work on Rd: Notped

Vehicle Details

Acc Ref: 150332	Manoeuvre: Turnrigh	Skidding: None	Impact Point: Front	Driver Breath Test: Negati	Driver Age: 42
Veh Ref: 1	Location: Carw	Object in Cway: None	From: E	Hit and Run: Nothtrun	
Veh Type: Car	Junction: Emain	Object off Cway: None	To: N	Driver Gender: Male	
Foreign Veh:	Towing: None	velcwy: No	J Purpose: Work	Driver Severity: Slight	
<hr/>					
Acc Ref:	Manoeuvre: Ahead	Skidding: None	Impact Point: Nearside	Driver Breath Test: Negati	Driver Age: 24
Veh Ref: 2	Location: Carw	Object in Cway: None	From: N	Hit and Run: Nothtrun	
Veh Type: Car	Junction: Middle	Object off Cway: None	To: S	Driver Gender: Male	
Foreign Veh:	Towing: None	velcwy: No	J Purpose: Work	Driver Severity: Slight	

Accident Details:

Acc Ref: 2017-410251463	1st / 2nd Rd: A1000/1 0U752/1	Jun Detail: T	Weather: Fine	Num Cas: 1
Day of Week: Fri	Parish:	Jun Control: Giveaway	Light: Darklit	Num Peds: 0
Date: 10/11/2017 20:40:00	District: WelHat	Spec Conditions: None	Road Surface: Dry	Num Vehicles: 2
Acc Severity: Serious	Speed Limit: 30mph	C/way Hazard: None	C/way Type: Single	Ped Xing: Npernox
A1000 Chequers Welwyn Garden City J/w U752 Woodhall Lane				On Site: Yes
Eastings: 523959	Northing: 212046			

Casualty Details

Acc Ref: 2017-410251463	Cas Class: Driver	Car Passenger: No	Cas Severity: Serious	Ped Movement: Notped
Veh Ref: 2	Cas Age: 39	PSV Passenger: No	Road User Class: Motorcyclists	Ped Location: Notped
Cas Ref: 1	Cas Gender: Male	Seat Belt: Notapp	School Pupil:	Ped Work on Rd: Notped

Vehicle Details

Acc Ref: 150129	Manoeuvre: Turnrigh	Skidding: None	Impact Point: Front	Driver Breath Test: Negati	Driver Age: 47
Veh Ref: 1	Location: Carw	Object in Cway: None	From: E	Hit and Run: Nothtrun	
Veh Type: Car	Junction: Emain	Object off Cway None	To: N	Driver Gender: Male	
Foreign Veh:	Towing; None	velewy No	J Purpose: Work	Driver Severity: None	
<hr/>					
Acc Ref:	Manoeuvre: Ahead	Skidding: None	Impact Point: Nearside	Driver Breath Test: Notreq	Driver Age: 39
Veh Ref: 2	Location: Carw	Object in Cway: None	From: N	Hit and Run: Nothtrun	
Veh Type: Mc<=125	Junction: Middle	Object off Cway None	To: S	Driver Gender: Male	
Foreign Veh:	Towing; None	velewy No	J Purpose: Unknown	Driver Severity: Serious	

Accident Details:

Acc Ref: 2017-410237397	1st / 2nd Rd: A1000/9 0U1346/	Jun Detail: R/bout	Weather: Fine	Num Cas: 1
Day of Week: Sun	Parish:	Jun Control: Giveway	Light: Day	Num Peds: 0
Date: 24/09/2017 10:40:00	District: WelHat	Spec Conditions: None	Road Surface: Dry	Num Vehicles: 2
Acc Severity: Slight	Speed Limit: 30mph	C/way Hazard: None	C/way Type: R/bout	Ped Xing: Npernox
A1000 Broadwater Road Hatfield Rbt J/w U1346 Broadwater Crescent, Broadwater Road & Chequers				On Site: Yes
Easting: 523920	Northing: 212121			

Casualty Details

Acc Ref: 2017-410237397	Cas Class: Driver	Car Passenger: No	Cas Severity: Slight	Ped Movement: Notped
Veh Ref: 2	Cas Age: 37	PSV Passenger: No	Road User Class: Cyclists	Ped Location: Notped
Cas Ref: 1	Cas Gender: Female	Seat Belt: Notapp	School Pupil:	Ped Work on Rd: Notped

Vehicle Details

Acc Ref: 150039	Manoeuvre: Ahead	Skidding: None	Impact Point: Nearside	Driver Breath Test: Notreq	Driver Age: 30
Veh Ref: 1	Location: Carw	Object in Cway: None	From: N	Hit and Run: Nothtrun	
Veh Type: Car	Junction: Er/about	Object off Cway None	To: S	Driver Gender: Female	
Foreign Veh:	Towing; None	velewy No	J Purpose: Other	Driver Severity: None	
<hr/>					
Acc Ref:	Manoeuvre: Ahead	Skidding: None	Impact Point: Nearside	Driver Breath Test: Notap	Driver Age: 37
Veh Ref: 2	Location: Carw	Object in Cway: None	From: Sw	Hit and Run: Nothtrun	
Veh Type: Bicycle	Junction: Middle	Object off Cway None	To: Ne	Driver Gender: Female	
Foreign Veh:	Towing; None	velewy No	J Purpose: Other	Driver Severity: Slight	

Accident Details:

Acc Ref: 2017-410169018	1st / 2nd Rd: A1000/1 0U752/1	Jun Detail: T	Weather: Fine	Num Cas: 1
Day of Week: Tue	Parish:	Jun Control: Giveway	Light: Day	Num Peds: 1
Date: 21/03/2017 09:06:00	District: WelHat	Spec Conditions: None	Road Surface: Dry	Num Vehicles: 1
Acc Severity: Slight	Speed Limit: 40mph	C/way Hazard: None	C/way Type: Single	Ped Xing: Nperpelx
A1000 Chequers Welwyn Garden City On Zig Zag Lines For Crossing Approx 15m South J/w U752 Woodhall Lane				On Site: Yes
Easting: 523962	Northing: 212037			

Casualty Details

Acc Ref: 2017-410169018	Cas Class: Pedestri	Car Passenger: No	Cas Severity: Slight	Ped Movement: Xnrside
Veh Ref: 1	Cas Age: 37	PSV Passenger: No	Road User Class: Pedestrians	Ped Location: Zigzagex
Cas Ref: 1	Cas Gender: Female	Seat Belt: Notapp	School Pupil:	Ped Work on Rd: Notapp

Vehicle Details

Acc Ref: 148434	Manoeuvre: Ahead	Skidding: None	Impact Point: Front	Driver Breath Test: Negati	Driver Age: 53
Veh Ref: 1	Location: Carw	Object in Cway: None	From: N	Hit and Run: Nothtrun	
Veh Type: Goodsuk	Junction: Exit	Object off Cway: None	To: S	Driver Gender: Male	
Foreign Veh:	Towing: None	velewy: No	J Purpose: Tofrowrk	Driver Severity: None	

Accident Details:

Acc Ref: 2016-410125378 **1st / 2nd Rd:** A1000/1 0U752/1 **Jun Detail:** T **Weather:** Fine **Num Cas:** 2
Day of Week: Sat **Parish:** **Jun Control:** Giveway **Light:** Darklit **Num Peds:** 0
Date: 29/10/2016 18:45:00 **District:** WelHat **Spec Conditions:** Signdefe **Road Surface:** Dry **Num Vehicles:** 2
Acc Severity: Slight **Speed Limit:** 30mph **C/way Hazard:** None **C/way Type:** Single **Ped Xing:** Nperpelx
A1000 Chequers Welwyn Garden City J/w U752 Woodhall Lane **On Site:** Yes
Eastings: 523957 **Northing:** 212045

Casualty Details

Acc Ref: 2016-410125378 **Cas Class:** Driver **Car Passenger:** No **Cas Severity:** Slight **Ped Movement:** Notped
Veh Ref: 1 **Cas Age:** 22 **PSV Passenger:** No **Road User Class:** Car Users **Ped Location:** Notped
Cas Ref: 1 **Cas Gender:** Female **Seat Belt:** Wornnot **School Pupil:** **Ped Work on Rd:** Notped

Acc Ref: 2016-410125378 **Cas Class:** Driver **Car Passenger:** No **Cas Severity:** Slight **Ped Movement:** Notped
Veh Ref: 2 **Cas Age:** 29 **PSV Passenger:** No **Road User Class:** Car Users **Ped Location:** Notped
Cas Ref: 2 **Cas Gender:** Male **Seat Belt:** Wornnot **School Pupil:** **Ped Work on Rd:** Notped

Vehicle Details

Acc Ref: 147254 **Manoeuvre:** Turnrigh **Skidding:** None **Impact Point:** Offside **Driver Breath Test:** Negati **Driver Age:** 22
Veh Ref: 1 **Location:** Carw **Object in Cway:** None **From:** Se **Hit and Run:** Nothtrun
Veh Type: Car **Junction:** Emain **Object off Cway:** None **To:** N **Driver Gender:** Female
Foreign Veh: **Towing:** None **velwy:** No **J Purpose:** Other **Driver Severity:** Slight

Acc Ref: **Manoeuvre:** Ahead **Skidding:** None **Impact Point:** Front **Driver Breath Test:** Negati **Driver Age:** 29
Veh Ref: 2 **Location:** Carw **Object in Cway:** None **From:** N **Hit and Run:** Nothtrun
Veh Type: Car **Junction:** Middle **Object off Cway:** None **To:** S **Driver Gender:** Male
Foreign Veh: **Towing:** None **velwy:** No **J Purpose:** Other **Driver Severity:** Slight

Accident Details:

Acc Ref: 2016-410118325	1st / 2nd Rd: A1000/8 0U1777/	Jun Detail: T	Weather: Fine	Num Cas: 1
Day of Week: Tue	Parish:	Jun Control: Giveway	Light: Darklit	Num Peds: 0
Date: 27/09/2016 20:20:00	District: WelHat	Spec Conditions: None	Road Surface: Dry	Num Vehicles: 2
Acc Severity: Serious	Speed Limit: 30mph	C/way Hazard: None	C/way Type: Single	Ped Xing: Npernox
A1000 Broadwater Road Welwyn Garden City J/w U1777 Penn Way				On Site: Yes
Eastings: 524152	Northing: 212481			

Casualty Details

Acc Ref: 2016-410118325	Cas Class: Driver	Car Passenger: No	Cas Severity: Serious	Ped Movement: Notped
Veh Ref: 2	Cas Age: 21	PSV Passenger: No	Road User Class: Motorcyclists	Ped Location: Notped
Cas Ref: 1	Cas Gender: Male	Seat Belt: Notapp	School Pupil:	Ped Work on Rd: Notped

Vehicle Details

Acc Ref: 147099	Manoeuvre: Turnrigh	Skidding: None	Impact Point: Nearside	Driver Breath Test: Notreq	Driver Age: 43
Veh Ref: 1	Location: Carw	Object in Cway: None	From: Nw	Hit and Run: Nothtrun	
Veh Type: Car	Junction: Emain	Object off Cway None	To: Sw	Driver Gender: Male	
Foreign Veh:	Towing; None	velewy No	J Purpose: Unknown	Driver Severity: None	
<hr/>					
Acc Ref:	Manoeuvre: Ahead	Skidding: None	Impact Point: Front	Driver Breath Test: Notreq	Driver Age: 21
Veh Ref: 2	Location: Carw	Object in Cway: None	From: Ne	Hit and Run: Nothtrun	
Veh Type: Mc>500	Junction: Middle	Object off Cway None	To: Sw	Driver Gender: Male	
Foreign Veh:	Towing; None	velewy No	J Purpose: Unknown	Driver Severity: Serious	

Accident Details:

Acc Ref: 2016-410088920 **1st / 2nd Rd:** 0U1346/ A1000/9 **Jun Detail:** R/bout **Weather:** Fine **Num Cas:** 1
Day of Week: Sat **Parish:** **Jun Control:** Giveway **Light:** Day **Num Peds:** 0
Date: 23/07/2016 14:04:00 **District:** WelHat **Spec Conditions:** None **Road Surface:** Dry **Num Vehicles:** 3
Acc Severity: Serious **Speed Limit:** 30mph **C/way Hazard:** None **C/way Type:** Single **Ped Xing:** Npernox
U1346 Broadwater Crescent Welwyn Garden City J/s A1000 Broadwater Road Rbt **On Site:** Yes
Eastings: 523914 **Northing:** 212123

Casualty Details

Acc Ref: 2016-410088920 **Cas Class:** Driver **Car Passenger:** No **Cas Severity:** Serious **Ped Movement:** Notped
Veh Ref: 1 **Cas Age:** 31 **PSV Passenger:** No **Road User Class:** Goods Vehicles **Ped Location:** Notped
Cas Ref: 1 **Cas Gender:** Male **Seat Belt:** Wornnot **School Pupil:** **Ped Work on Rd:** Notped

Vehicle Details

Acc Ref: 147483 **Manoeuvre:** Turnleft **Skidding:** None **Impact Point:** Front **Driver Breath Test:** Ntprov **Driver Age:** 31
Veh Ref: 1 **Location:** Carw **Object in Cway:** None **From:** W **Hit and Run:** Nothtrun
Veh Type: Goodsuk **Junction:** Lr/about **Object off Cway:** Otherobj **To:** N **Driver Gender:** Male
Foreign Veh: **Towing;** None **velewy:** Nearside **J Purpose:** Unknown **Driver Severity:** Serious

Acc Ref: **Manoeuvre:** Ahead **Skidding:** None **Impact Point:** None **Driver Breath Test:** Negati **Driver Age:** 17
Veh Ref: 2 **Location:** Carw **Object in Cway:** None **From:** W **Hit and Run:** Nothtrun
Veh Type: Car **Junction:** Lr/about **Object off Cway:** None **To:** E **Driver Gender:** Male
Foreign Veh: **Towing;** None **velewy:** No **J Purpose:** Unknown **Driver Severity:** None

Acc Ref: **Manoeuvre:** Parked **Skidding:** None **Impact Point:** Front **Driver Breath Test:** Notcon **Driver Age:**
Veh Ref: 3 **Location:** Fway **Object in Cway:** None **From:** P **Hit and Run:** Nothtrun
Veh Type: Car **Junction:** Exit **Object off Cway:** None **To:** P **Driver Gender:** Unknown
Foreign Veh: **Towing;** None **velewy:** No **J Purpose:** Unknown **Driver Severity:** None

Accident Details:

Acc Ref: 2016-410101712	1st / 2nd Rd: A1000/8 A1000/9	Jun Detail: R/bout	Weather: Fine	Num Cas: 1
Day of Week: Sat	Parish:	Jun Control: Giveway	Light: Day	Num Peds: 0
Date: 18/06/2016 17:15:00	District: WelHat	Spec Conditions: None	Road Surface: Dry	Num Vehicles: 2
Acc Severity: Slight	Speed Limit: 30mph	C/way Hazard: None	C/way Type: Single	Ped Xing: Nperpex
A1000 Broadwater Road Welwyn Garden City J/w A1000 Broadwater Road Rbt				On Site: Yes
Eastings: 523947	Northing: 212118			

Casualty Details

Acc Ref: 2016-410101712	Cas Class: Driver	Car Passenger: No	Cas Severity: Slight	Ped Movement: Notped
Veh Ref: 1	Cas Age: 30	PSV Passenger: No	Road User Class: Car Users	Ped Location: Notped
Cas Ref: 1	Cas Gender: Male	Seat Belt: Wornnot	School Pupil:	Ped Work on Rd: Notped

Vehicle Details

Acc Ref: 146597	Manoeuvre: Ahead	Skidding: None	Impact Point: Back	Driver Breath Test: Notreq	Driver Age: 30
Veh Ref: 1	Location: Carw	Object in Cway: None	From: E	Hit and Run: Nothtrun	
Veh Type: Car	Junction: Approach	Object off Cway None	To: W	Driver Gender: Male	
Foreign Veh:	Towing; None	velewy No	J Purpose: Other	Driver Severity: Slight	

Acc Ref:	Manoeuvre: Ahead	Skidding: None	Impact Point: Front	Driver Breath Test: Notcon	Driver Age:
Veh Ref: 2	Location: Carw	Object in Cway: None	From: E	Hit and Run: Hit&run	
Veh Type: Car	Junction: Approach	Object off Cway None	To: W	Driver Gender: Male	
Foreign Veh:	Towing; None	velewy No	J Purpose: Unknown	Driver Severity: None	

Accident Details:

Acc Ref: 2016-410073127 **1st / 2nd Rd:** 0U752/1 NONE **Jun Detail:** Notjunct **Weather:** Fine **Num Cas:** 1
Day of Week: Fri **Parish:** **Jun Control:** Notjunct **Light:** Day **Num Peds:** 1
Date: 13/05/2016 08:01:00 **District:** WelHat **Spec Conditions:** None **Road Surface:** Dry **Num Vehicles:** 3
Acc Severity: Serious **Speed Limit:** 30mph **C/way Hazard:** None **C/way Type:** Single **Ped Xing:** Npernox
U752 Woodhall Lane Welwyn Garden City O/s No 27 & Approx 30m Nw J/w U753 Woodhall Court **On Site:** Yes
Eastings: 524004 **Northing:** 212040

Casualty Details

Acc Ref: 2016-410073127 **Cas Class:** Pedestri **Car Passenger:** No **Cas Severity:** Serious **Ped Movement:** Cwaystil
Veh Ref: 1 **Cas Age:** 27 **PSV Passenger:** No **Road User Class:** Pedestrians **Ped Location:** Inway
Cas Ref: 1 **Cas Gender:** Male **Seat Belt:** Notapp **School Pupil:** **Ped Work on Rd:** Yes

Vehicle Details

Acc Ref: 146284 **Manoeuvre:** Ahead **Skidding:** None **Impact Point:** Front **Driver Breath Test:** Negati **Driver Age:** 34
Veh Ref: 1 **Location:** Carw **Object in Cway:** None **From:** Se **Hit and Run:** Nothtrun
Veh Type: Car **Junction:** Notjunct **Object off Cway:** None **To:** Nw **Driver Gender:** Female
Foreign Veh: **Towing:** None **velewy:** No **J Purpose:** Unknown **Driver Severity:** None

Acc Ref: **Manoeuvre:** Parked **Skidding:** None **Impact Point:** None **Driver Breath Test:** Negati **Driver Age:** 52
Veh Ref: 2 **Location:** Carw **Object in Cway:** None **From:** P **Hit and Run:** Nothtrun
Veh Type: Goodsuk **Junction:** Notjunct **Object off Cway:** None **To:** P **Driver Gender:** Male
Foreign Veh: **Towing:** None **velewy:** No **J Purpose:** Unknown **Driver Severity:** None

Acc Ref: **Manoeuvre:** Parked **Skidding:** None **Impact Point:** None **Driver Breath Test:** Negati **Driver Age:** 27
Veh Ref: 3 **Location:** Carw **Object in Cway:** None **From:** P **Hit and Run:** Nothtrun
Veh Type: Goodsuk **Junction:** Notjunct **Object off Cway:** None **To:** P **Driver Gender:** Male
Foreign Veh: **Towing:** None **velewy:** No **J Purpose:** Unknown **Driver Severity:** None

Accident Details:

Acc Ref: 2016-410076259	1st / 2nd Rd: A1000/1 0U752/1	Jun Detail: T	Weather: Fine	Num Cas: 1
Day of Week: Thu	Parish:	Jun Control: Giveaway	Light: Day	Num Peds: 0
Date: 12/05/2016 12:10:00	District: WelHat	Spec Conditions: None	Road Surface: Dry	Num Vehicles: 2
Acc Severity: Slight	Speed Limit: 30mph	C/way Hazard: None	C/way Type: Single	Ped Xing: Nperpex
A1000 Chequers Welwyn Garden City J/w U752 Woodhall Lane				On Site: Yes
Eastings: 523956	Northing: 212059			

Casualty Details

Acc Ref: 2016-410076259	Cas Class: Driver	Car Passenger: No	Cas Severity: Slight	Ped Movement: Notped
Veh Ref: 1	Cas Age: 57	PSV Passenger: No	Road User Class: Motorcyclists	Ped Location: Notped
Cas Ref: 1	Cas Gender: Male	Seat Belt: Notapp	School Pupil:	Ped Work on Rd: Notped

Vehicle Details

Acc Ref: 146061	Manoeuvre: Turnleft	Skidding: None	Impact Point: Back	Driver Breath Test: Notreq	Driver Age: 57
Veh Ref: 1	Location: Carw	Object in Cway: None	From: N	Hit and Run: Nothtrun	
Veh Type: Mc>500	Junction: Lmain	Object off Cway None	To: E	Driver Gender: Male	
Foreign Veh:	Towing; None	velewy No	J Purpose: Other	Driver Severity: Slight	
<hr/>					
Acc Ref:	Manoeuvre: Ahead	Skidding: None	Impact Point: Front	Driver Breath Test: Notreq	Driver Age: 74
Veh Ref: 2	Location: Carw	Object in Cway: None	From: N	Hit and Run: Nothtrun	
Veh Type: Car	Junction: Approach	Object off Cway None	To: S	Driver Gender: Male	
Foreign Veh:	Towing; None	velewy No	J Purpose: Other	Driver Severity: None	

Accident Details:

Acc Ref: 2016-4100B0072	1st / 2nd Rd: A6129/1 NONE	Jun Detail: Notjunct	Weather: Fine	Num Cas: 1
Day of Week: Mon	Parish:	Jun Control: Notjunct	Light: Day	Num Peds: 1
Date: 01/02/2016 08:45:00	District: WelHat	Spec Conditions: None	Road Surface: Wet	Num Vehicles: 1
Acc Severity: Serious	Speed Limit: 30mph	C/way Hazard: None	C/way Type: Dual	Ped Xing: Nperpelx
A6129 Broadwater Way Welwyn Garden City On Toucan Crossing & Approx 120m East J/w A6129 Stanborough Road Rbt				On Site: Yes
Easting: 523779	Northing: 212078			

Casualty Details

Acc Ref: 2016-4100B0072	Cas Class: Pedestri	Car Passenger: No	Cas Severity: Serious	Ped Movement: Xnrmask
Veh Ref: 1	Cas Age: 7	PSV Passenger: No	Road User Class: Pedestrians	Ped Location: Pedcross
Cas Ref: 1	Cas Gender: Female	Seat Belt: Notapp	School Pupil:	Ped Work on Rd: Notapp

Vehicle Details

Acc Ref: 145472	Manoeuvre: Ahead	Skidding: None	Impact Point: Front	Driver Breath Test: Negati	Driver Age: 27
Veh Ref: 1	Location: Carw	Object in Cway: None	From: E	Hit and Run: Nothtrun	
Veh Type: Car	Junction: Notjunct	Object off Cway: None	To: W	Driver Gender: Male	
Foreign Veh:	Towing: None	velewy: No	J Purpose: Tofrowrk	Driver Severity: None	

Accident Details:

Acc Ref: 2015-4100B0807	1st / 2nd Rd: A1000/1 0U752/1	Jun Detail: T	Weather: Fine	Num Cas: 1
Day of Week: Wed	Parish:	Jun Control: Giveway	Light: Day	Num Peds: 0
Date: 09/12/2015 15:20:00	District: WelHat	Spec Conditions: None	Road Surface: Dry	Num Vehicles: 2
Acc Severity: Slight	Speed Limit: 30mph	C/way Hazard: None	C/way Type: Single	Ped Xing: Nperpex

A1000 Chequers At Toucan Crossing Welwyn Garden City Approx 20m South J/w U752 Woodhall Lane

Eastings: 523964	Northing: 212029	On Site: Yes
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Casualty Details

Acc Ref: 2015-4100B0807	Cas Class: Driver	Car Passenger: No	Cas Severity: Slight	Ped Movement: Notped
Veh Ref: 2	Cas Age: 15	PSV Passenger: No	Road User Class: Cyclists	Ped Location: Notped
Cas Ref: 1	Cas Gender: Male	Seat Belt: Notapp	School Pupil:	Ped Work on Rd: Notped

Vehicle Details

Acc Ref: 144968	Manoeuvre: Ahead	Skidding: None	Impact Point: Offside	Driver Breath Test: Notreq	Driver Age: 32
Veh Ref: 1	Location: Carw	Object in Cway: None	From: N	Hit and Run: Nothtrun	
Veh Type: Car	Junction: Exit	Object off Cway None	To: S	Driver Gender: Female	
Foreign Veh:	Towing; None	velewy No	J Purpose: Unknown	Driver Severity: None	

Acc Ref:	Manoeuvre: Starting	Skidding: None	Impact Point: Front	Driver Breath Test: Notap	Driver Age: 15
Veh Ref: 2	Location: Carw	Object in Cway: None	From: W	Hit and Run: Nothtrun	
Veh Type: Bicycle	Junction: Exit	Object off Cway None	To: E	Driver Gender: Male	
Foreign Veh:	Towing; None	velewy No	J Purpose: Unknown	Driver Severity: Slight	

Accident Details:

Acc Ref: 2015-4100B0801	1st / 2nd Rd: A1000/8 0U374/1	Jun Detail: T	Weather: Rainwind	Num Cas: 1
Day of Week: Sun	Parish:	Jun Control: Giveway	Light: Darklit	Num Peds: 1
Date: 29/11/2015 17:21:00	District: WelHat	Spec Conditions: None	Road Surface: Wet	Num Vehicles: 1
Acc Severity: Serious	Speed Limit: 30mph	C/way Hazard: None	C/way Type: Single	Ped Xing: Nperpelx
A1000 Broadwater Road Welwyn Garden City J/w U374 Holwell Road				On Site: Yes
Easting: 524072	Northing: 212241			

Casualty Details

Acc Ref: 2015-4100B0801	Cas Class: Pedestri	Car Passenger: No	Cas Severity: Serious	Ped Movement: Xoffside
Veh Ref: 1	Cas Age: 31	PSV Passenger: No	Road User Class: Pedestrians	Ped Location: Within50
Cas Ref: 1	Cas Gender: Female	Seat Belt: Notapp	School Pupil:	Ped Work on Rd: Notapp

Vehicle Details

Acc Ref: 144897	Manoeuvre: Ahead	Skidding: None	Impact Point: Front	Driver Breath Test: Notreq	Driver Age: 25
Veh Ref: 1	Location: Carw	Object in Cway: None	From: Sw	Hit and Run: Nothtrun	
Veh Type: Car	Junction: Approach	Object off Cway: None	To: Ne	Driver Gender: Male	
Foreign Veh:	Towing: None	velewy: No	J Purpose: Other	Driver Severity: None	

Accident Details:

Acc Ref: 2015-4100B0756	1st / 2nd Rd: A1000/8 0U389/1	Jun Detail: Crossrd	Weather: Other	Num Cas: 1
Day of Week: Tue	Parish:	Jun Control: Giveway	Light: Darklit	Num Peds: 1
Date: 24/11/2015 17:10:00	District: WelHat	Spec Conditions: None	Road Surface: Wet	Num Vehicles: 1
Acc Severity: Slight	Speed Limit: 30mph	C/way Hazard: None	C/way Type: Single	Ped Xing: Nperpelx
A1000 Broadwater Road Welwyn Garden City On Pelican Crossing Approx 18m South J/w U389 Hyde Way				On Site: No
Easting: 524252	Northing: 212823			

Casualty Details

Acc Ref: 2015-4100B0756	Cas Class: Pedestri	Car Passenger: No	Cas Severity: Slight	Ped Movement: Xnrside
Veh Ref: 1	Cas Age: 26	PSV Passenger: No	Road User Class: Pedestrians	Ped Location: Pedcross
Cas Ref: 1	Cas Gender: Female	Seat Belt: Notapp	School Pupil:	Ped Work on Rd: Notapp

Vehicle Details

Acc Ref: 144725	Manoeuvre: Ahead	Skidding: None	Impact Point: Front	Driver Breath Test: Notcon	Driver Age: 55
Veh Ref: 1	Location: Carw	Object in Cway: None	From: N	Hit and Run: Hit&run	
Veh Type: Car	Junction: Exit	Object off Cway: None	To: S	Driver Gender: Female	
Foreign Veh:	Towing: None	velewy: No	J Purpose: Unknown	Driver Severity: None	

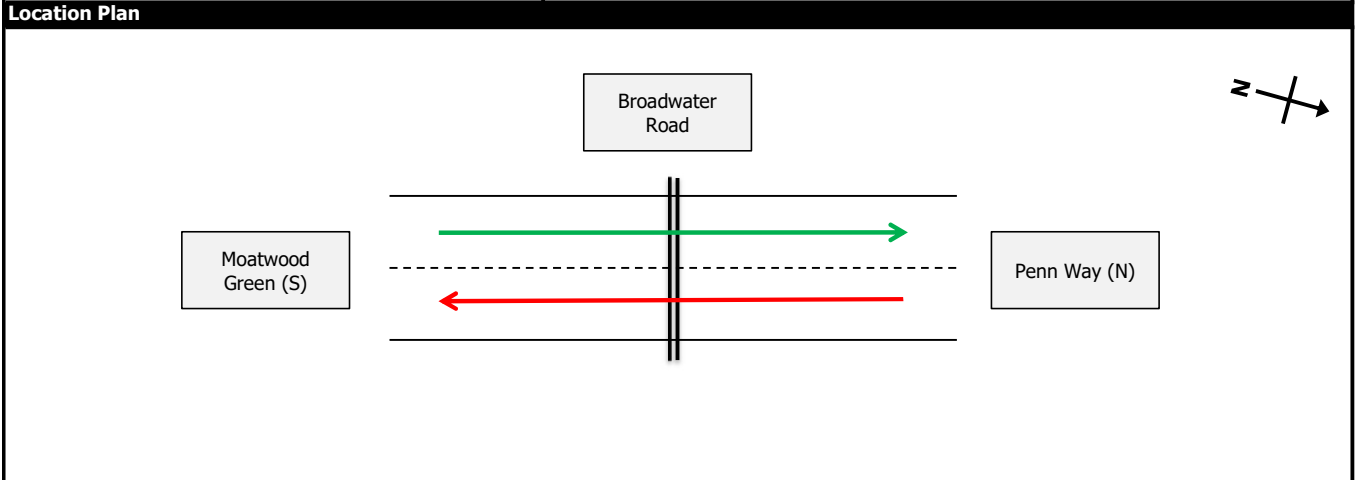


Intelligent Data Collection Limited

Broadwater Gardens

Client: i-Transport
Project Number: ID05540
Site Number: Site 1
Week Commencing: 02/11/2020
Road Name: Broadwater Road
Survey Type: ATC
Direction AB **Flow from** Moatwood Green (S) **to** Penn Way (N)
Direction BA **Flow from** Penn Way (N) **to** Moatwood Green (S)

Road Name	Broadwater Road		
Direction AB	Moatwood Green (S)	to:	Penn Way (N)
Direction BA	Penn Way (N)	to:	Moatwood Green (S)
Site Co-Ordinates	51.796994, -0.201095	ATC Start Date	07/11/2020
		ATC Finish Date	15/11/2020
		PSL	30
Link to location on Google Maps Click Here			



Photograph Record

5-day AM Peak Ave Flow - 1072 5-day AM Peak Speed (mph) - Mean 24.92 / 85th%ile 28.55 5-day PM Peak Ave Flow - 1133 5-day PM Peak Speed (mph) - Mean 24.94 / 85th%ile 28.75 5-day Average Weekday HGV% - 8.6%	5-day AM Peak Ave Flow - 1222 5-day AM Peak Speed (mph) - Mean 25.62 / 85th%ile 28.99 5-day PM Peak Ave Flow - 1020 5-day PM Peak Speed (mph) - Mean 25.45 / 85th%ile 28.91 5-day Average Weekday HGV% - 8.1%
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Comments

The minimum speed threshold to include vehicles in the reports is 5mph. Unclassified vehicles are excluded.

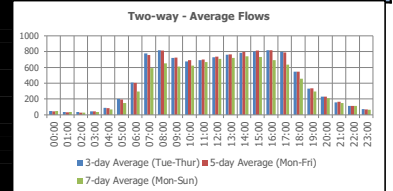
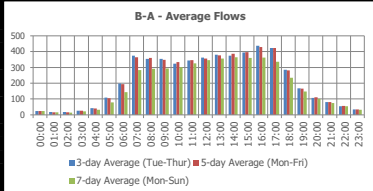
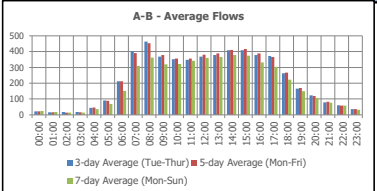


Flow Reporting

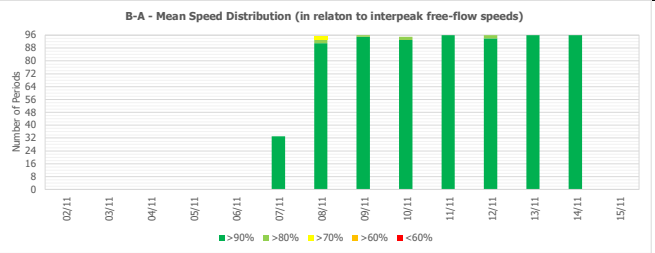
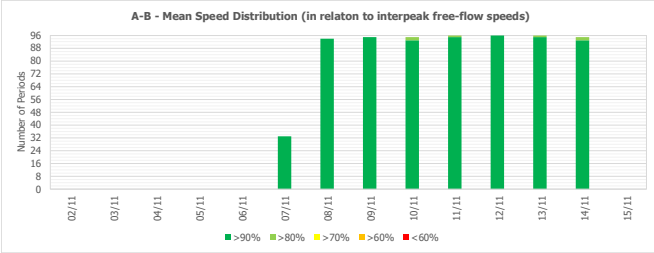
A-B Hourly Summary Data			
Time Interval	3-day Average (Tue-Thur)	5-day Average (Mon-Fri)	7-day Average (Mon-Sun)
00:00	22	21	23
01:00	16	16	18
02:00	17	13	14
03:00	18	16	14
04:00	44	45	36
05:00	90	89	69
06:00	213	211	151
07:00	402	391	309
08:00	463	454	362
09:00	368	377	320
10:00	352	357	322
11:00	348	357	341
12:00	369	380	360
13:00	379	389	367
14:00	409	410	377
15:00	408	417	373
16:00	379	388	332
17:00	373	366	302
18:00	262	266	222
19:00	165	168	149
20:00	123	118	108
21:00	77	83	77
22:00	60	58	58
23:00	36	35	33
07:00-10:00	1234	1232	991
16:00-19:00	1014	1020	857

B-A Hourly Summary Data			
Time Interval	3-day Average (Tue-Thur)	5-day Average (Mon-Fri)	7-day Average (Mon-Sun)
00:00	23	23	23
01:00	17	15	16
02:00	16	15	14
03:00	26	25	21
04:00	43	39	32
05:00	109	104	77
06:00	197	193	142
07:00	374	365	282
08:00	355	360	290
09:00	354	348	292
10:00	325	334	301
11:00	345	345	326
12:00	362	356	347
13:00	380	376	356
14:00	375	387	363
15:00	395	396	360
16:00	437	428	362
17:00	424	423	335
18:00	286	282	235
19:00	167	165	146
20:00	107	111	102
21:00	80	80	73
22:00	53	55	53
23:00	33	34	34
07:00-10:00	1082	1072	865
16:00-19:00	1147	1133	932

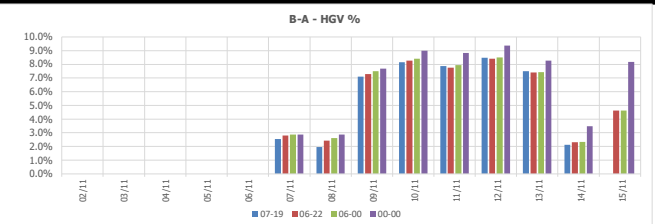
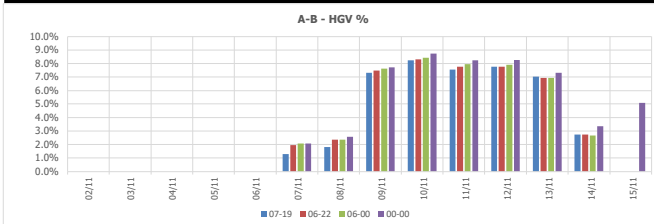
Two-Way Hourly Summary Data			
Time Interval	3-day Average (Tue-Thur)	5-day Average (Mon-Fri)	7-day Average (Mon-Sun)
00:00	44	44	46
01:00	33	31	33
02:00	33	28	27
03:00	44	41	35
04:00	86	84	68
05:00	200	193	146
06:00	410	404	293
07:00	776	755	592
08:00	818	814	652
09:00	722	725	612
10:00	677	691	623
11:00	693	702	668
12:00	731	736	707
13:00	759	765	722
14:00	784	797	741
15:00	803	813	733
16:00	816	817	694
17:00	796	789	638
18:00	548	548	458
19:00	332	334	295
20:00	230	229	209
21:00	157	163	150
22:00	113	112	111
23:00	69	69	65
07:00-10:00	2316	2294	1856
16:00-19:00	2160	2154	1789



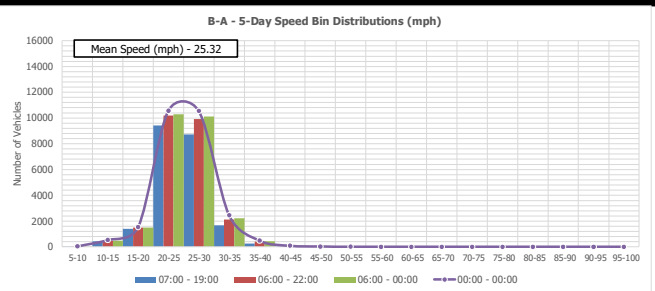
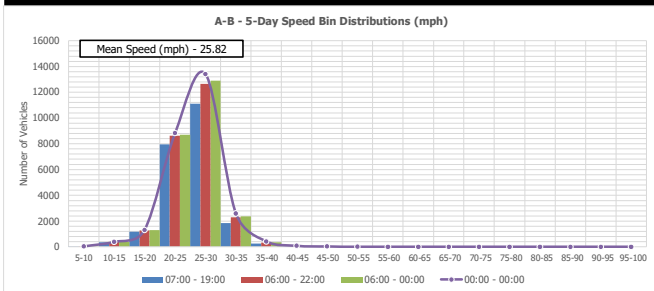
Mean Speed Distributions



HGV%



Speed Bin Distributions



Intelligent Data Collection Limited



Period Commencing: 02/11/2020
 Road Name: Broadwater Road
 Flow from: Moatwood Green (S) to: Penn Way (N)
 Vehicle Classification: All Vehicles

Prepared by: Emma Douglas
 Checked by: Luke Martin

Hour Starting	Monday 02/11/2020	Tuesday 03/11/2020	Wednesday 04/11/2020	Thursday 05/11/2020	Friday 06/11/2020	Saturday 07/11/2020	Sunday 08/11/2020	Monday 09/11/2020	Tuesday 10/11/2020	Wednesday 11/11/2020	Thursday 12/11/2020	Friday 13/11/2020	Saturday 14/11/2020	Sunday 15/11/2020	3-day Average (Tue-Thur)	5-day Average (Mon-Fri)	7-day Average (Mon-Sun)
00:00	*	*	*	*	*	*	27	16	25	21	19	24	27	26	22	21	23
01:00	*	*	*	*	*	*	16	13	18	11	19	17	27	19	16	16	18
02:00	*	*	*	*	*	*	14	7	19	14	18	8	19	10	17	13	14
03:00	*	*	*	*	*	*	4	9	12	23	19	17	19	11	18	16	14
04:00	*	*	*	*	*	*	17	43	47	35	49	49	30	16	44	45	36
05:00	*	*	*	*	*	*	31	92	95	96	80	80	39	37	90	89	69
06:00	*	*	*	*	*	*	41	219	207	223	208	198	76	36	213	211	151
07:00	*	*	*	*	*	*	70	379	403	399	405	367	143	*	402	391	309
08:00	*	*	*	*	*	*	70	431	434	451	504	452	195	*	463	454	362
09:00	*	*	*	*	*	*	121	380	358	393	354	401	230	*	368	377	320
10:00	*	*	*	*	*	*	201	344	325	348	384	383	269	*	352	357	322
11:00	*	*	*	*	*	*	252	363	336	355	353	377	354	*	348	357	341
12:00	*	*	*	*	*	*	270	389	351	382	373	404	351	*	369	380	360
13:00	*	*	*	*	*	*	290	399	391	362	384	409	331	*	379	389	367
14:00	*	*	*	*	*	*	265	400	415	408	405	424	325	*	409	410	377
15:00	*	*	*	*	*	*	230	437	414	411	399	425	295	*	408	417	373
16:00	*	*	*	*	*	*	274	182	400	357	370	406	260	*	379	388	332
17:00	*	*	*	*	*	*	213	164	355	385	349	384	211	*	373	366	302
18:00	*	*	*	*	*	*	151	129	266	257	261	269	170	*	262	266	222
19:00	*	*	*	*	*	*	120	117	145	124	178	192	203	*	165	168	149
20:00	*	*	*	*	*	*	88	85	96	136	123	111	124	*	123	118	108
21:00	*	*	*	*	*	*	70	58	90	66	86	80	94	*	77	83	77
22:00	*	*	*	*	*	*	60	44	46	57	59	64	62	*	60	58	58
23:00	*	*	*	*	*	*	31	24	26	32	37	40	39	*	36	35	33
Summary Data															Summary Data		
0700-1900	0	0	0	0	0	638	2244	4543	4426	4489	4623	4682	3134	0	4513	4553	3989
0600-2200	0	0	0	0	0	916	2545	5093	4959	5099	5214	5301	3491	36	5091	5133	4473
0600-0000	0	0	0	0	0	1007	2613	5165	5048	5195	5318	5402	3593	36	5187	5226	4564
0000-0000	0	0	0	0	0	1007	2722	5345	5264	5395	5522	5597	3754	155	5394	5425	4737
0700-1000	0	0	0	0	0	0	261	1190	1195	1243	1263	1220	568	0	1234	1222	991
1600-1900	0	0	0	0	0	638	475	1021	999	980	1062	1040	641	0	1014	1020	857
Peak Hour Analysis															Peak Hour Analysis		
07:00-10:00	0	0	0	0	0	0	121	431	434	451	504	452	230	0	463	454	362
10:00-16:00	0	0	0	0	0	0	290	437	415	411	405	425	354	0	409	417	377
16:00-19:00	0	0	0	0	0	274	182	400	385	370	409	406	260	0	379	388	332

Note: Peak Hour Analysis calculates and then highlights the highest flow within the period listed

Intelligent Data Collection Limited

Period Commencing: 02/11/2020
 Road Name: Broadwater Road
 Flow from: Penn Way (N) to: Moatwood Green (S)
 Vehicle Classification: All Vehicles

Prepared by: Emma Douglas
 Checked by: Luke Martin



Hour Starting	Monday 02/11/2020	Tuesday 03/11/2020	Wednesday 04/11/2020	Thursday 05/11/2020	Friday 06/11/2020	Saturday 07/11/2020	Sunday 08/11/2020	Monday 09/11/2020	Tuesday 10/11/2020	Wednesday 11/11/2020	Thursday 12/11/2020	Friday 13/11/2020	Saturday 14/11/2020	Sunday 15/11/2020	3-day Average (Tue-Thur)	5-day Average (Mon-Fri)	7-day Average (Mon-Sun)
00:00	*	*	*	*	*	*	26	19	21	24	23	26	29	15	23	23	23
01:00	*	*	*	*	*	*	12	10	17	18	17	13	26	13	17	15	16
02:00	*	*	*	*	*	*	13	11	13	20	16	15	15	5	16	15	14
03:00	*	*	*	*	*	*	5	15	21	31	26	32	28	8	26	25	21
04:00	*	*	*	*	*	*	20	24	41	42	45	45	29	12	43	39	32
05:00	*	*	*	*	*	*	20	102	111	105	112	92	46	29	109	104	77
06:00	*	*	*	*	*	*	49	188	208	187	196	185	82	44	197	193	142
07:00	*	*	*	*	*	*	47	346	349	392	380	356	107	*	374	365	282
08:00	*	*	*	*	*	*	64	370	358	341	365	364	167	*	355	360	290
09:00	*	*	*	*	*	*	97	333	345	361	355	346	210	*	354	348	292
10:00	*	*	*	*	*	*	154	309	291	319	364	387	281	*	325	334	301
11:00	*	*	*	*	*	*	252	321	331	365	338	370	307	*	345	345	326
12:00	*	*	*	*	*	*	309	345	352	368	366	350	337	*	362	356	347
13:00	*	*	*	*	*	*	264	371	386	383	372	369	345	*	380	376	356
14:00	*	*	*	*	*	*	295	386	359	357	408	424	313	*	375	387	363
15:00	*	*	*	*	*	*	237	383	392	389	404	410	307	*	395	396	360
16:00	*	*	*	*	*	*	307	173	373	428	425	459	271	*	437	428	362
17:00	*	*	*	*	*	*	242	131	420	406	438	427	193	*	424	423	335
18:00	*	*	*	*	*	*	176	125	285	289	290	278	172	*	286	282	235
19:00	*	*	*	*	*	*	131	90	145	162	181	159	121	*	167	165	146
20:00	*	*	*	*	*	*	100	58	84	108	108	105	100	*	107	111	102
21:00	*	*	*	*	*	*	61	49	76	83	78	79	74	*	80	80	73
22:00	*	*	*	*	*	*	54	45	50	51	55	53	64	*	53	55	53
23:00	*	*	*	*	*	*	26	22	32	34	28	37	40	*	33	34	32
Summary Data															Summary Data		
0700-1900	0	0	0	0	0	725	2148	4242	4286	4428	4516	4525	3010	0	4410	4399	3850
0600-2200	0	0	0	0	0	1017	2394	4735	4847	4982	5055	5124	3387	44	4961	4949	4313
0600-0000	0	0	0	0	0	1097	2461	4817	4932	5065	5145	5228	3476	44	5047	5037	4398
0000-0000	0	0	0	0	0	1097	2557	4998	5156	5305	5384	5451	3649	126	5282	5259	4580
0700-1000	0	0	0	0	0	0	208	1049	1052	1094	1100	1066	484	0	1082	1072	865
1600-1900	0	0	0	0	0	725	429	1078	1123	1153	1164	1149	636	0	1147	1133	932
Peak Hour Analysis															Peak Hour Analysis		
07:00-10:00	0	0	0	0	0	0	97	370	358	392	380	364	210	0	374	365	292
10:00-16:00	0	0	0	0	0	0	309	386	392	389	408	424	345	0	395	396	363
16:00-19:00	0	0	0	0	0	307	173	420	428	438	459	457	271	0	437	428	362

Note: Peak Hour Analysis calculates and then highlights the highest flow within the period listed

Intelligent Data Collection Limited

Period Commencing: 02/11/2020
 Road Name: Broadwater Road
 Flow from : Two-way Total
 Vehicle Classification: All Vehicles

Prepared by: Emma Douglas
 Checked by: Luke Martin



Hour Starting	Monday 02/11/2020	Tuesday 03/11/2020	Wednesday 04/11/2020	Thursday 05/11/2020	Friday 06/11/2020	Saturday 07/11/2020	Sunday 08/11/2020	Monday 09/11/2020	Tuesday 10/11/2020	Wednesday 11/11/2020	Thursday 12/11/2020	Friday 13/11/2020	Saturday 14/11/2020	Sunday 15/11/2020	3-day Average (Tue-Thur)	5-day Average (Mon-Fri)	7-day Average (Mon-Sun)
00:00	*	*	*	*	*	*	53	35	46	45	42	50	56	41	44	44	46
01:00	*	*	*	*	*	*	28	23	35	29	36	30	53	32	33	31	33
02:00	*	*	*	*	*	*	27	18	32	34	34	23	34	15	33	28	27
03:00	*	*	*	*	*	*	9	24	33	54	45	49	47	19	44	41	35
04:00	*	*	*	*	*	*	37	67	88	77	94	94	59	28	86	84	68
05:00	*	*	*	*	*	*	51	194	206	201	192	172	85	66	200	193	146
06:00	*	*	*	*	*	*	90	407	415	410	404	383	158	80	410	404	293
07:00	*	*	*	*	*	*	117	725	752	791	785	723	250	*	776	755	592
08:00	*	*	*	*	*	*	134	801	792	792	869	816	362	*	818	814	652
09:00	*	*	*	*	*	*	218	713	703	754	709	747	440	*	722	725	612
10:00	*	*	*	*	*	*	355	653	616	667	748	770	550	*	677	691	623
11:00	*	*	*	*	*	*	504	684	667	720	691	747	661	*	693	702	668
12:00	*	*	*	*	*	*	579	734	703	750	739	754	688	*	731	736	707
13:00	*	*	*	*	*	*	554	770	777	745	756	778	676	*	759	765	722
14:00	*	*	*	*	*	*	560	786	774	765	813	848	638	*	784	797	741
15:00	*	*	*	*	*	*	467	820	806	800	803	835	602	*	803	813	733
16:00	*	*	*	*	*	*	581	355	773	785	795	868	531	*	816	817	694
17:00	*	*	*	*	*	*	455	295	775	791	787	811	782	404	796	789	638
18:00	*	*	*	*	*	*	327	254	551	546	551	547	342	*	548	548	458
19:00	*	*	*	*	*	*	251	207	290	286	359	351	382	236	332	334	295
20:00	*	*	*	*	*	*	188	143	180	244	231	216	198	*	230	229	209
21:00	*	*	*	*	*	*	131	107	166	149	164	159	142	*	157	163	150
22:00	*	*	*	*	*	*	114	89	96	108	114	117	123	*	113	112	111
23:00	*	*	*	*	*	*	57	46	58	66	65	77	68	*	69	69	65
Summary Data															Summary Data		
0700-1900	0	0	0	0	0	1363	4392	8785	8712	8917	9139	9207	6144	0	8923	8952	7839
0600-2200	0	0	0	0	0	1933	4939	9828	9806	10081	10269	10425	6878	80	10052	10082	8786
0600-0000	0	0	0	0	0	2104	5074	9982	9980	10260	10463	10630	7069	80	10234	10263	8961
0000-0000	0	0	0	0	0	2104	5279	10343	10420	10700	10906	11048	7403	281	10675	10683	9317
0700-1000	0	0	0	0	0	0	469	2239	2247	2337	2363	2286	1052	0	2316	2294	1856
1600-1900	0	0	0	0	0	1363	904	2099	2122	2133	2226	2189	1277	0	2160	2154	1789
Peak Hour Analysis															Peak Hour Analysis		
07:00-10:00	0	0	0	0	0	0	218	801	792	792	869	816	440	0	818	814	652
10:00-16:00	0	0	0	0	0	0	579	820	806	800	813	848	688	0	803	813	741
16:00-19:00	0	0	0	0	0	581	355	775	791	795	868	863	531	0	816	817	694

Note: Peak Hour Analysis calculates and then highlights the highest flow within the period listed

Intelligent Data Collection Limited

Client: I-Transport
 Project Number: ID05540
 Site Number: Site 1
 Flow from: Mastwood Green (S) to: Penn Way (N)



5-day Summary

Time	Speeds (Mph)																Mean	85th %ile			
	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85			85-90	90-95	95-100
00:00	0	1	0	10	58	3	4	4	0	1	0	0	0	0	0	0	0	0	0	29.02	32.60
01:00	0	0	0	11	36	15	12	3	0	1	0	0	0	0	0	0	0	0	0	29.47	-
02:00	0	0	1	8	42	8	6	1	0	0	0	0	0	0	0	0	0	0	0	29.46	-
03:00	0	0	1	10	39	22	3	2	1	0	1	1	0	0	0	0	0	0	0	29.36	-
04:00	0	0	1	30	120	47	12	9	4	0	0	0	0	0	0	0	0	0	0	28.92	35.54
05:00	0	5	9	65	215	110	28	7	3	1	0	0	0	0	0	0	0	0	0	28.42	33.43
06:00	0	4	26	262	537	177	36	9	3	1	0	0	0	0	0	0	0	0	0	27.69	31.57
07:00	5	12	73	681	953	187	33	8	0	1	0	0	0	0	0	0	0	0	0	25.97	29.37
08:00	4	32	131	882	1048	156	13	4	1	1	0	0	0	0	0	0	0	0	0	25.20	28.62
09:00	2	25	85	618	979	154	18	5	0	0	0	0	0	0	0	0	0	0	0	25.70	28.98
10:00	7	28	78	561	929	157	21	3	0	0	0	0	0	0	0	0	0	0	0	25.79	29.20
11:00	2	24	105	600	976	150	22	4	1	0	0	0	0	0	0	0	0	0	0	25.63	28.99
12:00	4	22	85	595	993	174	24	1	1	0	0	0	0	0	0	0	0	0	0	25.77	29.12
13:00	1	26	110	595	1014	175	21	2	1	0	0	0	0	0	0	0	0	0	0	25.70	29.09
14:00	1	12	98	695	1071	152	20	1	2	0	0	0	0	0	0	0	0	0	0	25.66	28.82
15:00	4	71	116	919	813	144	13	2	3	0	0	1	0	0	0	0	0	0	0	24.71	28.29
16:00	2	30	115	766	885	126	16	2	0	0	0	0	0	0	0	0	0	0	0	25.14	28.52
17:00	1	34	94	644	887	146	21	1	1	0	2	0	0	0	0	0	0	0	0	25.56	28.85
18:00	0	32	89	401	655	124	25	3	0	0	0	0	0	0	0	0	0	0	0	25.66	29.37
19:00	1	13	41	179	472	107	23	3	2	1	0	0	0	0	0	0	0	0	0	26.78	30.65
20:00	2	11	27	124	324	78	16	7	1	0	0	0	0	0	0	0	0	0	0	26.78	30.90
21:00	0	7	13	89	211	79	14	1	1	0	0	1	0	0	0	0	0	0	0	27.29	31.28
22:00	1	3	8	59	147	46	17	5	1	0	0	1	0	0	0	0	0	0	0	27.99	33.38
23:00	0	1	3	23	107	32	7	0	0	1	0	0	0	0	0	0	0	0	0	27.87	32.95
07:00 - 19:00	33	348	1179	7957	11103	1845	247	36	10	2	2	1	0	0	0	0	0	0	0	25.48	28.90
06:00 - 22:00	36	383	1286	8611	12647	2286	336	56	17	4	2	2	0	0	0	0	0	0	0	25.68	29.06
06:00 - 00:00	37	387	1297	8693	12901	2364	360	61	18	5	2	3	0	0	0	0	0	0	0	25.72	29.16
00:00 - 00:00	37	393	1309	8827	13411	2590	424	87	30	7	4	4	0	0	0	0	0	0	0	25.82	29.30

7-day Summary

Time	Speeds (Mph)																Mean	85th %ile			
	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85			85-90	90-95	95-100
00:00	0	3	2	25	92	42	9	5	4	1	2	0	0	0	0	0	0	0	0	29.01	31.35
01:00	0	0	1	20	71	27	17	3	0	1	0	0	0	0	0	0	0	0	0	28.98	-
02:00	0	0	1	10	62	26	8	2	0	0	0	0	0	0	0	0	0	0	0	29.39	-
03:00	0	1	2	16	53	32	4	2	1	1	1	0	0	0	0	0	0	0	0	29.07	-
04:00	0	0	1	41	152	62	15	11	4	0	0	0	0	0	0	0	0	0	0	28.91	35.71
05:00	0	6	12	84	264	133	34	11	5	1	0	0	0	0	0	0	0	0	0	28.55	33.95
06:00	0	4	29	289	602	214	51	11	5	3	0	0	0	0	0	0	0	0	0	28.54	32.04
07:00	5	13	75	710	1085	234	53	10	2	1	0	0	0	0	0	0	0	0	0	26.89	30.90
08:00	4	33	144	942	1173	206	25	7	2	1	0	0	0	0	0	0	0	0	0	25.88	29.86
09:00	2	29	96	683	1170	219	29	8	0	0	1	0	0	0	0	0	0	0	0	26.20	29.67
10:00	7	31	92	690	1174	223	34	3	0	0	0	0	0	0	0	0	0	0	0	26.12	29.57
11:00	2	27	133	736	1219	235	32	5	1	0	0	0	0	0	0	0	0	0	0	25.93	29.34
12:00	6	24	116	766	1324	249	33	1	1	0	0	0	0	0	0	0	0	0	0	25.89	29.38
13:00	1	39	134	745	1359	251	34	2	1	0	0	0	0	0	0	0	0	0	0	25.87	29.35
14:00	5	21	115	876	1360	230	30	3	2	0	0	0	0	0	0	0	0	0	0	25.85	29.13
15:00	5	86	143	1087	1101	218	17	4	3	0	0	1	0	0	0	0	0	0	0	25.02	28.80
16:00	2	42	156	998	1229	203	23	5	0	0	0	0	0	0	0	0	0	0	0	25.37	28.99
17:00	2	46	112	796	1204	216	36	1	3	0	2	1	0	0	0	0	0	0	0	25.91	29.38
18:00	0	45	113	503	883	190	36	7	2	0	0	0	0	0	0	0	0	0	0	26.05	30.14
19:00	1	27	56	266	635	160	38	7	3	1	0	0	0	0	0	0	0	0	0	26.78	31.13
20:00	2	15	35	190	455	126	28	8	2	0	0	0	0	0	0	0	0	0	0	26.95	31.33
21:00	0	9	21	124	308	123	22	3	1	0	0	1	0	0	0	0	0	0	0	27.47	31.65
22:00	1	6	12	93	233	82	26	7	1	0	0	1	0	0	0	0	0	0	0	27.93	33.37
23:00	0	2	4	46	146	48	12	1	0	2	0	0	0	0	0	0	0	0	0	28.07	32.36
07:00 - 19:00	41	436	1429	9532	14281	2674	382	56	17	2	2	3	0	0	0	0	0	0	0	26.19	29.88
06:00 - 22:00	44	491	1570	10461	16281	3297	521	85	28	6	2	4	0	0	0	0	0	0	0	26.40	30.08
06:00 - 00:00	45	499	1586	10540	16660	3427	559	93	29	8	2	5	0	0	0	0	0	0	0	26.44	30.16
00:00 - 00:00	45	509	1605	10736	17354	3749	646	127	43	12	5	6	0	0	0	0	0	0	0	26.47	30.26

Intelligent Data Collection Limited

Client: I-Transport
 Project Number: ID05540
 Site Number: Site 1
 Flow from: Penn Way (N) to: Maltwood Green (S)



5-day Summary

Time	Speeds (Mph)																		Mean	85th %ile	
	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95			95-100
00:00	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	28.20	-
01:00	0	1	4	3	24	8	5	2	0	0	0	0	0	0	0	0	0	0	0	26.27	-
02:00	0	0	5	33	24	11	2	0	0	0	0	0	0	0	0	0	0	0	0	26.27	37.78
03:00	0	4	4	29	48	23	10	7	0	0	0	0	0	0	0	0	0	0	0	28.11	33.97
04:00	0	12	5	45	68	47	16	2	2	0	0	0	0	0	0	0	0	0	0	27.07	33.97
05:00	0	15	12	101	228	130	24	9	0	2	0	1	0	0	0	0	0	0	0	28.08	33.01
06:00	0	17	18	249	421	189	50	17	3	0	0	0	0	0	0	0	0	0	0	27.65	32.41
07:00	4	58	128	659	780	152	38	3	1	0	0	0	0	0	0	0	0	0	0	25.21	29.06
08:00	1	57	145	781	664	124	21	2	0	1	1	1	0	0	0	0	0	0	0	24.61	28.36
09:00	3	17	100	810	676	113	20	0	1	0	0	0	0	0	0	0	0	0	0	24.94	28.23
10:00	2	22	85	726	689	120	23	3	0	0	0	0	0	0	0	0	0	0	0	25.16	28.51
11:00	0	25	65	738	722	142	27	4	1	1	0	0	0	0	0	0	0	0	0	25.43	28.74
12:00	4	33	91	779	724	133	14	3	0	0	0	0	0	0	0	0	0	0	0	24.99	28.65
13:00	8	31	132	756	776	153	23	2	0	0	0	0	0	0	0	0	0	0	0	25.13	28.68
14:00	2	29	84	804	821	168	21	3	1	0	0	0	1	0	0	0	0	0	0	25.37	28.68
15:00	4	35	163	935	678	145	15	2	0	0	1	1	0	0	0	0	0	0	0	24.47	28.25
16:00	7	58	184	934	809	123	22	3	2	0	0	0	0	0	0	0	0	0	0	24.47	28.22
17:00	1	38	161	948	769	166	26	4	1	1	0	0	0	0	0	0	0	0	0	24.80	28.56
18:00	3	26	64	556	606	130	19	5	0	1	0	0	0	0	0	0	0	0	0	25.56	29.49
19:00	1	17	45	263	366	105	26	3	0	0	0	0	0	0	0	0	0	0	0	26.13	30.74
20:00	2	13	25	153	249	89	21	1	3	0	0	0	0	0	0	0	0	0	0	26.66	31.49
21:00	1	16	8	90	174	75	28	6	2	0	0	0	0	0	0	0	0	0	0	27.73	33.01
22:00	3	1	10	70	117	47	17	5	2	1	0	0	0	0	0	0	0	0	0	27.45	34.19
23:00	0	1	2	42	77	35	8	5	0	1	0	0	0	0	0	0	0	0	0	28.37	33.08
07:00 - 19:00	39	429	1402	9426	8714	1669	269	34	7	4	2	1	1	0	0	0	0	0	0	24.96	28.54
06:00 - 22:00	43	492	1498	10181	9924	2127	394	61	15	4	2	1	1	0	0	0	0	0	0	25.16	28.94
06:00 - 00:00	46	494	1510	10293	10118	2209	419	71	17	6	2	1	1	0	0	0	0	0	0	25.20	29.00
00:00 - 00:00	46	527	1542	10565	10551	2451	484	92	22	8	2	3	1	0	0	0	0	0	0	25.32	29.20

7-day Summary

Time	Speeds (Mph)																		Mean	85th %ile	
	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95			95-100
00:00	0	2	3	57	62	38	12	4	4	0	0	1	0	0	0	0	0	0	0	27.77	-
01:00	0	1	7	42	43	21	7	3	1	1	0	0	0	0	0	0	0	0	0	27.43	-
02:00	0	1	6	41	36	18	6	0	0	0	0	0	0	0	0	0	0	0	0	26.50	-
03:00	0	5	5	47	63	28	11	7	0	0	0	0	0	0	0	0	0	0	0	27.13	37.78
04:00	0	12	6	56	94	57	23	5	5	0	0	0	0	0	0	0	0	0	0	27.91	33.97
05:00	0	17	16	126	267	144	31	9	2	4	0	1	0	0	0	0	0	0	0	28.14	33.03
06:00	0	17	20	291	506	218	60	21	5	1	0	0	0	0	0	0	0	0	0	27.89	32.71
07:00	4	62	132	696	860	189	48	5	2	0	0	0	0	0	0	0	0	0	0	25.71	30.02
08:00	1	60	152	836	764	176	29	8	0	1	1	1	0	0	0	0	0	0	0	25.42	29.79
09:00	5	25	105	883	831	161	32	1	4	0	0	0	0	0	0	0	0	0	0	25.55	29.27
10:00	3	28	97	863	893	183	33	5	0	0	0	0	0	0	0	0	0	0	0	25.54	29.21
11:00	1	31	80	945	985	199	35	5	2	1	0	0	0	0	0	0	0	0	0	25.60	28.98
12:00	5	53	106	1047	997	195	19	4	0	0	1	0	0	0	0	0	0	0	0	25.10	28.73
13:00	10	47	161	1005	1027	197	36	6	1	0	0	0	0	0	0	0	0	0	0	25.16	28.75
14:00	3	45	100	1046	1094	221	25	5	1	0	0	0	1	0	0	0	0	0	0	25.41	28.85
15:00	5	50	180	1164	938	205	34	3	1	0	1	0	0	0	0	0	0	0	0	24.85	28.71
16:00	8	74	219	1218	1124	204	37	5	3	1	0	0	0	0	0	0	0	0	0	24.90	28.71
17:00	1	47	185	1161	1011	230	35	8	2	1	0	0	0	0	0	0	0	0	0	25.17	29.17
18:00	4	43	74	704	810	201	36	7	1	1	0	2	0	0	0	0	0	0	0	25.88	30.13
19:00	2	24	60	358	509	174	33	6	1	1	0	0	0	0	0	0	0	0	0	26.35	31.19
20:00	3	19	28	227	377	126	29	1	4	0	0	0	0	0	0	0	0	0	0	26.69	31.31
21:00	2	21	12	140	256	102	40	9	2	0	0	0	0	0	0	0	0	0	0	27.62	33.30
22:00	3	3	16	110	183	74	23	10	2	1	0	0	0	0	0	0	0	0	0	27.55	33.67
23:00	0	1	3	66	113	49	16	5	0	1	1	0	0	0	0	0	0	0	0	28.12	34.13
07:00 - 19:00	50	565	1591	11568	11334	2361	400	62	17	5	3	3	1	0	0	0	0	0	0	25.62	29.47
06:00 - 22:00	57	646	1711	12594	12262	2981	562	99	29	7	3	3	1	0	0	0	0	0	0	25.72	29.80
06:00 - 00:00	60	650	1730	12760	13278	3104	601	114	31	9	4	3	1	0	0	0	0	0	0	25.77	29.86
00:00 - 00:00	60	688	1773	13129	13843	3410	691	142	43	14	4	5	1	0	0	0	0	0	0	25.87	30.01

Intelligent Data Collection Limited

Client: I-Transport
 Project Number: ID05540
 Site Number: Site 1
 Flow from: Two-way Total



5-day Summary

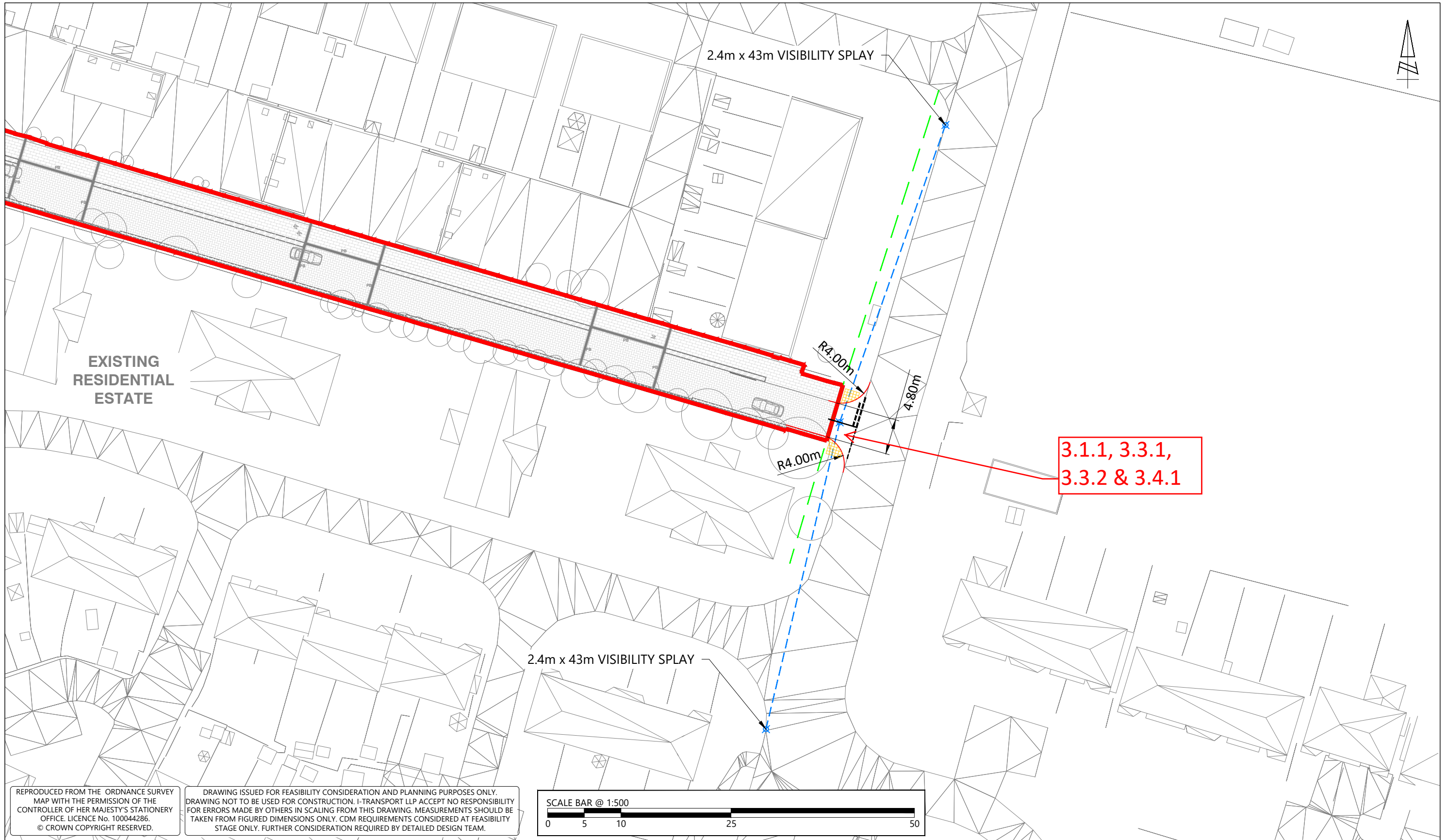
Time	Speeds (Mph)																	Mean	85th %ile			
	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90			90-95	95-100	
00:00	0	2	2	43	99	47	11	5	7	0	1	1	0	0	0	0	0	0	0	0	28.61	32.60
01:00	0	1	4	42	60	23	17	5	0	1	0	0	0	0	0	0	0	0	0	0	28.10	-
02:00	0	0	6	41	66	19	8	1	0	0	0	0	0	0	0	0	0	0	0	0	27.79	-
03:00	0	4	5	39	67	45	13	9	1	0	1	1	0	0	0	0	0	0	0	0	28.73	37.78
04:00	0	12	6	75	188	94	28	11	6	0	0	0	0	0	0	0	0	0	0	0	27.99	35.20
05:00	0	20	21	166	443	240	52	16	3	3	0	1	0	0	0	0	0	0	0	0	28.25	33.21
06:00	0	21	44	511	958	366	86	26	6	1	0	0	0	0	0	0	0	0	0	0	27.67	31.99
07:00	9	70	201	1340	3733	339	71	11	1	1	0	0	0	0	0	0	0	0	0	0	25.59	29.21
08:00	5	89	276	1663	1712	280	34	6	1	2	1	1	0	0	0	0	0	0	0	0	24.90	28.49
09:00	5	42	185	1428	1655	267	38	5	1	0	0	0	0	0	0	0	0	0	0	0	25.32	28.60
10:00	9	50	163	1287	1618	277	44	6	0	0	0	0	0	0	0	0	0	0	0	0	25.48	28.85
11:00	2	49	170	1338	1598	292	49	8	2	1	0	0	0	0	0	0	0	0	0	0	25.53	28.86
12:00	8	55	176	1374	1717	307	38	4	1	0	0	0	0	0	0	0	0	0	0	0	25.38	28.88
13:00	9	57	242	1351	1790	328	44	4	1	0	0	0	0	0	0	0	0	0	0	0	25.41	28.88
14:00	3	41	182	1499	1892	320	41	4	3	0	0	0	1	0	0	0	0	0	0	0	25.52	28.75
15:00	8	106	279	1654	1491	289	28	4	3	0	1	1	0	0	0	0	0	0	0	0	24.59	28.27
16:00	9	88	299	1700	1694	249	38	5	2	0	0	0	0	0	0	0	0	0	0	0	24.81	28.37
17:00	2	72	255	1592	1656	312	47	5	2	1	2	0	0	0	0	0	0	0	0	0	25.18	28.70
18:00	3	58	153	957	1261	254	44	8	0	1	0	0	0	0	0	0	0	0	0	0	25.61	29.43
19:00	2	30	86	442	838	212	49	6	2	1	0	0	0	0	0	0	0	0	0	0	26.45	30.69
20:00	4	24	52	277	573	167	37	8	4	0	0	0	0	0	0	0	0	0	0	0	26.72	31.19
21:00	1	23	21	179	385	154	42	7	3	0	0	1	0	0	0	0	0	0	0	0	27.51	32.12
22:00	4	4	18	129	264	93	34	10	3	1	0	1	0	0	0	0	0	0	0	0	27.72	33.85
23:00	0	2	5	65	184	67	15	5	0	2	0	0	0	0	0	0	0	0	0	0	28.12	32.38
07:00-19:00	72	777	2581	17383	19817	3514	516	70	17	6	4	2	1	0	0	0	0	0	0	0	25.22	28.72
06:00-22:00	79	875	2784	18792	22571	4413	730	117	32	8	4	3	1	0	0	0	0	0	0	0	25.42	29.00
06:00-00:00	83	881	2807	18986	23019	4573	779	132	35	11	4	4	1	0	0	0	0	0	0	0	25.46	29.08
00:00-00:00	83	920	2851	19392	23662	5041	908	179	52	15	6	7	1	0	0	0	0	0	0	0	25.57	29.25

7-day Summary

Time	Speeds (Mph)																	Mean	85th %ile			
	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90			90-95	95-100	
00:00	0	5	5	82	154	80	21	9	8	1	2	1	0	0	0	0	0	0	0	0	28.39	31.35
01:00	0	1	8	62	114	48	24	6	1	2	0	0	0	0	0	0	0	0	0	0	28.22	-
02:00	0	1	7	51	98	44	14	2	0	0	0	0	0	0	0	0	0	0	0	0	27.90	-
03:00	0	6	7	63	116	60	15	9	1	1	1	0	0	0	0	0	0	0	0	0	28.08	37.78
04:00	0	12	7	97	246	119	38	16	9	0	0	0	0	0	0	0	0	0	0	0	28.41	35.29
05:00	0	23	28	210	531	277	65	20	7	5	0	1	0	0	0	0	0	0	0	0	28.34	33.43
06:00	0	21	49	380	1108	432	111	32	10	4	0	0	0	0	0	0	0	0	0	0	28.21	32.42
07:00	9	75	207	1406	1945	423	101	15	4	1	0	0	0	0	0	0	0	0	0	0	26.30	30.46
08:00	5	93	296	1778	1937	382	54	15	2	2	1	1	0	0	0	0	0	0	0	0	25.65	29.83
09:00	7	54	201	1566	2001	380	61	9	4	0	0	1	0	0	0	0	0	0	0	0	25.87	29.47
10:00	10	59	189	1553	2067	406	67	8	0	0	0	0	0	0	0	0	0	0	0	0	25.83	29.39
11:00	3	58	213	1681	2204	434	67	10	3	1	0	0	0	0	0	0	0	0	0	0	25.76	29.16
12:00	11	77	222	1813	2321	444	52	5	1	0	1	0	0	0	0	0	0	0	0	0	25.50	29.06
13:00	11	86	295	1750	2386	448	70	8	2	0	0	0	0	0	0	0	0	0	0	0	25.51	29.05
14:00	8	66	215	1922	2454	451	56	8	3	0	0	0	1	0	0	0	0	0	0	0	25.63	28.99
15:00	10	136	323	2251	2039	423	51	7	4	0	1	1	0	0	0	0	0	0	0	0	24.93	28.76
16:00	10	116	375	2216	2353	407	60	10	3	1	0	0	0	0	0	0	0	0	0	0	25.14	28.85
17:00	3	93	297	1957	2215	446	71	9	5	1	2	1	0	0	0	0	0	0	0	0	25.54	29.28
18:00	4	88	187	1207	1693	391	72	14	3	1	0	2	0	0	0	0	0	0	0	0	25.96	30.14
19:00	3	51	116	624	1144	334	71	13	4	2	0	0	0	0	0	0	0	0	0	0	26.56	31.16
20:00	5	34	63	417	832	252	57	9	6	0	0	0	0	0	0	0	0	0	0	0	26.82	31.32
21:00	2	30	33	264	564	225	62	12	3	0	0	1	0	0	0	0	0	0	0	0	27.55	32.46
22:00	4	9	28	203	416	156	49	17	3	1	0	1	0	0	0	0	0	0	0	0	27.74	33.55
23:00	0	3	7	112	259	97	28	6	0	3	1	0	0	0	0	0	0	0	0	0	28.10	32.67
07:00-19:00	91	1001	3020	21100	25615	5035	782	118	34	7	5	6	1	0	0	0	0	0	0	0	25.91	29.67
06:00-22:00	101	1137	3281	22965	29263	6278	1083	184	57	13	5	7	1	0	0	0	0	0	0	0	26.06	29.94
06:00-00:00	105	1149	3316	23300	29938	6531	1160	207	60	17	6	8	1	0	0	0	0	0	0	0	26.11	30.01
00:00-00:00	105	1197	3378	23865	31197	7159	1337	269	86	26	9	11	1	0	0	0	0	0	0	0	26.17	30.13

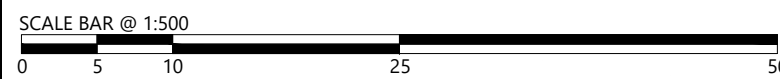
APPENDIX B

Plan attached showing the locations of the problems identified as part of this audit (location numbers refer to paragraph numbers in the report).



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A		11.12.20	JMc	UPDATED SITE LAYOUT	MD	NM	TITLE: SITE ACCESS VEHICLE TRACK ANALYSIS	
REV	DATE	BY	DESCRIPTION	CHK	APD	PROJECT:	CLIENT:	
STATUS: FOR INFORMATION						BROADWATER GARDENS	WELWYN PARK HOMES LTD	

DRAWN: JMc	CHECKED: MD	APPROVED: NM
PROJECT No: ITL16195	SCALE @ A3: 1:500	DATE: 24.11.20
DRAWING No: ITL16195-GA-005		REV: A

APPENDIX C: DESIGNERS RESPONSE

Auditors: Bryan Shawyer (Team Leader) and Martin Morris (Team Member).

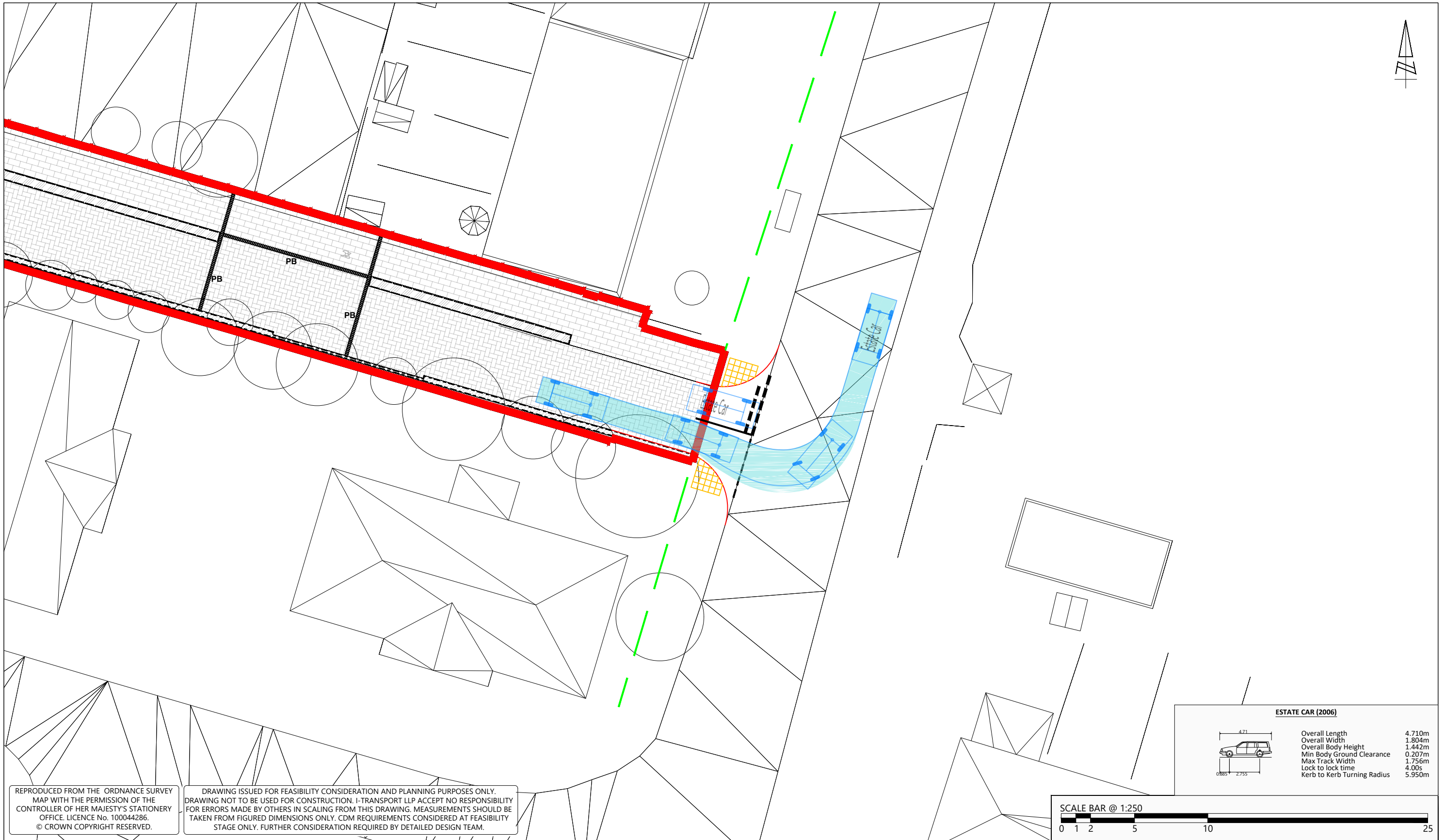
Scheme: Broadwater Gardens, Broadwater Road, Welwyn Garden City

Date Audit Completed: 28th January 2021

This response is to a Stage 1 Road Safety Audit to the design standard detailed within GG 119 of Volume 5, Section 2, Part 2, of the Design Manual for Roads and Bridges, as detailed by the Highways Agency.

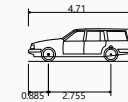
Problem no. in safety audit report	Problem accepted (yes/no)	Recommended measure accepted (yes/no)	Alternative measure (detail description)
3.1.1	Yes	Yes	To be provided as part of the detailed design stage.
3.3.1	Yes	No	<p>The bus at the bus stop will be a temporary obstruction as a result of passengers alighting and boarding the bus.</p> <p>A review of the accident data reveals no accidents were recorded at the existing access junction, despite it being in use for much of the study period.</p> <p>Further, as set out the Transport Assessment, the proposal development will result in a net decrease in vehicular trips during the network peak hours.</p> <p>As such, it is considered that the potential temporary obstruction, as a result of the bus, is considered acceptable.</p>
3.3.2	Yes	No	<p>The access has been designed in accordance with HCC Design Guidance, suitable for the proposed development, and in line with HCC's refuse vehicle type.</p> <p>The refuse vehicle trip attraction will occur up to twice per week (for refuse and recycling). Such movements are therefore infrequent.</p>

			<p>Manual for Streets states that local roads should be designed to accommodate service vehicles, without allowing their requirements to dominate the layout. It notes that on streets with low traffic flows and speeds, it may be assumed that vehicles will be able to use the full width of the carriageway to manoeuvre.</p> <p>Refuse vehicles will be able to see any departing vehicles from the site and conversely any departing vehicles will be able to wait, back from the give way, if they see an oncoming refuse vehicle turning.</p> <p>The most frequent movement at the site access junction will be a car passing another car. This movement is shown in drawing ITL16195-GA-011 which demonstrates a car is able to wait at the give way, whilst another passes, with sufficient width.</p>
3.4.1	Yes	Yes	To be provided as part of the detailed design stage.

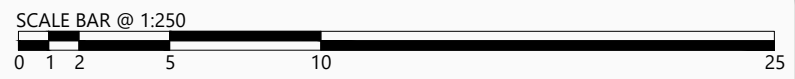


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ESTATE CAR (2006)	
Overall Length	4.710m
Overall Width	1.804m
Overall Body Height	1.442m
Min Body Ground Clearance	0.207m
Max Track Width	1.756m
Lock to lock time	4.00s
Kerb to Kerb Turning Radius	5.950m



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REV	DATE	BY	DESCRIPTION	CHK	APD
STATUS: FOR INFORMATION					

TITLE:	SITE ACCESS VEHICLE TRACK ANALYSIS - ESTATE CAR	
PROJECT:	BROADWATER GARDENS	CLIENT: WELWYN PARK HOMES LTD

DRAWN:	JMc	CHECKED:	MD	APPROVED:	NM
PROJECT No:	ITL16195	SCALE @ A3:	1:250	DATE:	26.01.21
DRAWING No:	ITL16195-GA-011			REV:	

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