

APPENDIX 11

Stage 1 RSA & Designer's Response



Road Safety Audit Stage 1

Section 278 Works

North Street

Emsworth

Hampshire

Date: 27th November 2024

Report produced for: Bellamy Roberts

Report produced by: M & S Traffic

DOCUMENT CONTROL SHEET

M&S Traffic has prepared this report in accordance with the instructions from Bellamy Roberts. M&S Traffic shall not be liable for the use of any information contained herein for any purpose other than the sole and specific use for which it was prepared.

Report Title:	Interbridges Site, Emsworth Road Safety Audit Stage 1
Document reference:	BR/24/6096/1/MM
Prepared by:	M & S Traffic
On behalf of:	Hampshire County Council

Revision Status	Prepared by: (Name)	Checked by: (Name)	Approved by (Signature)	Date Approved
Original	Martin Morris	Bryan Shawyer		20 th November 2024
Rev A	Martin Morris	Bryan Shawyer		27 ^h November 2024

Distribution

Organisation	Contact	Copies
Bellamy Roberts	Rose Kleingeld	-
Bellamy Roberts	Matt Twinberrow	

CONTENTS

Document Control Sheet	2
Contents	3
1 Introduction	4
2 Safety issues raised at previous Audits	5
3 Items raised at the Stage 1 Audit	6
4 Issues identified during the road safety audit that are outside the terms of reference	8
5 Auditors Statement	9

Appendix A..... List of drawings

Appendix B..... Comment location drawing

1 INTRODUCTION

- 1.1 This report describes a Stage 1 Road Safety Audit carried out on a proposed access associated with the provision of 14 Class E commercial units with a net floor area of approximately 2,221.3 sqm, including:

Priority access on the eastern side of the carriageway.
Relocation of the informal pedestrian crossing point.

The Audit was requested by the design organisation, Bellamy Roberts, Clover House, Western Lane, Odiham, Hampshire, RG29 1TU, on behalf of Hampshire County Council as the Overseeing Organisation.

- 1.2 The Audit Team membership was as follows:

Martin Morris, PGD, MCIHT, MSoRSA – Audit Team Leader
Highways England Approved RSA Certificate of Competency (April 2012)

Bryan Shawyer BEng (Hons), MSc, MCIHT, MSoRSA – Audit Team Member
Highways England Approved RSA Certificate of Competency (July 2012)

- 1.3 The audit was undertaken following the principles of GG119, The Design Manual for Roads and Bridges. The documents available at the time of the report are detailed in Appendix A.
- 1.4 The Audit took place at the Gillingham offices of M&S Traffic during November 2024 and comprised an examination of the documents provided as listed in Appendix A. A joint site visit and inspection was undertaken on the 13th November 2024 between 11:15 and 11:45 hours. Weather conditions at the time were fine and the road surface was dry. Traffic flows were moderate and free flow speeds were low. There were low pedestrian flows and no cyclist movements were observed.
- 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 The auditors have not been informed of any Departures from Standards in this scheme construction.
- 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 ITEMS RAISED BY PREVIOUS AUDITS

2.1 No previous safety audits were submitted for assessment.

3 ITEMS RAISED AT THE STAGE 1 AUDIT

3.1 General

3.1.1 PROBLEM

Location: Proposed access.

Summary: Ponding of surface water could lead to loss of control collisions.

No drainage details have been provided for assessment, where the site and surface water could fall towards North Street. Surface water across the junction mouth could lead to loss of control collisions, particularly under braking conditions in wet / icy weather.

RECOMMENDATION

It is recommended that the carriageway should adequately drain and not pond and that drainage details should be provided at Stage 2 Safety Audit.

3.2 Local Alignment

3.2.1 No Problems identified in this category at this Stage 1 Road Safety Audit.

3.3 Junctions

3.3.1 No Problems identified in this category at this Stage 1 Road Safety Audit.

3.4 Non-Motorised User (NMU) Provision

3.4.1 .PROBLEM

Location: Proposed junction with North Street.

Summary: Gully in the junction mouth could lead to loss of control collisions for cyclists or powered two-wheel riders.

At the proposed junction there is an existing gully cover within the junction mouth, which could present a hazard for cyclists and powered two-wheel riders, particularly when leaning over to enter the junction. This could lead to could to loss of control collisions for cyclists or powered two-wheel riders.

RECOMMENDATION

It is recommended that the gully should be repositioned out of the junction mouth.

3.4.2 PROBLEM

Location: Proposed western crossing point.

Summary: Pedestrians crossing from a dark area could lead to sudden braking and rear end shunt collisions, or vehicle to pedestrian collisions.

North Street curves as it goes through the underpass, where road users could be emerging from dark to light conditions, in addition the underpass lighting is only on the eastern side. Road users may suddenly encounter a pedestrian crossing from a dark area – see figure 1 below. This could lead to sudden braking and rear end shunt collisions, or vehicle to pedestrian collisions.



Figure 1: Crossing point after underpass.

RECOMMENDATION

It is recommended that a suitable lighting should be provided to illuminate pedestrians.

3.5 Road Signs, Carriageway Markings and Lighting

3.5.1 No Problems identified in this category at this Stage 1 Road Safety Audit.

4 ISSUES IDENTIFIED DURING THE ROAD SAFETY AUDIT THAT ARE OUTSIDE THE TERMS OF REFERENCE

4.1 Safety issues identified during the audit and site inspection that are 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.

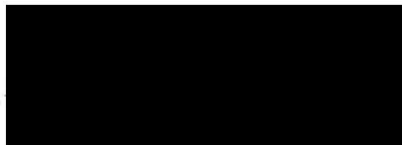
4.2 The Audit Team has no issues to raise within this section.

5 AUDITOR TEAM STATEMENT

5.1 We certify that this audit has been carried following the principles of GG 119.

Audit Team Leader

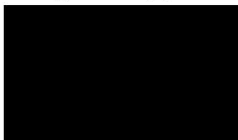
Martin Morris
PGD, MCIHT, MSoRSA
Highways England Approved RSA Certificate of Competency



Audit Team Member

Signed: Date: 27/11/2024

Bryan Shawyer
BEng (Hons), MSc, MCIHT, MSoRSA
Highways England Approved RSA Certificate of Competency

Signed: 

Date: 27/11/2024

M & S Traffic

Aeolus House
32 Hamelin Road
Gillingham
Kent ME7 3EX



+44 (0) 1634 307 498



contact@mstraffic.co.uk



www.mstraffic.co.uk

APPENDIX A

List of Drawings and other information submitted for auditing:

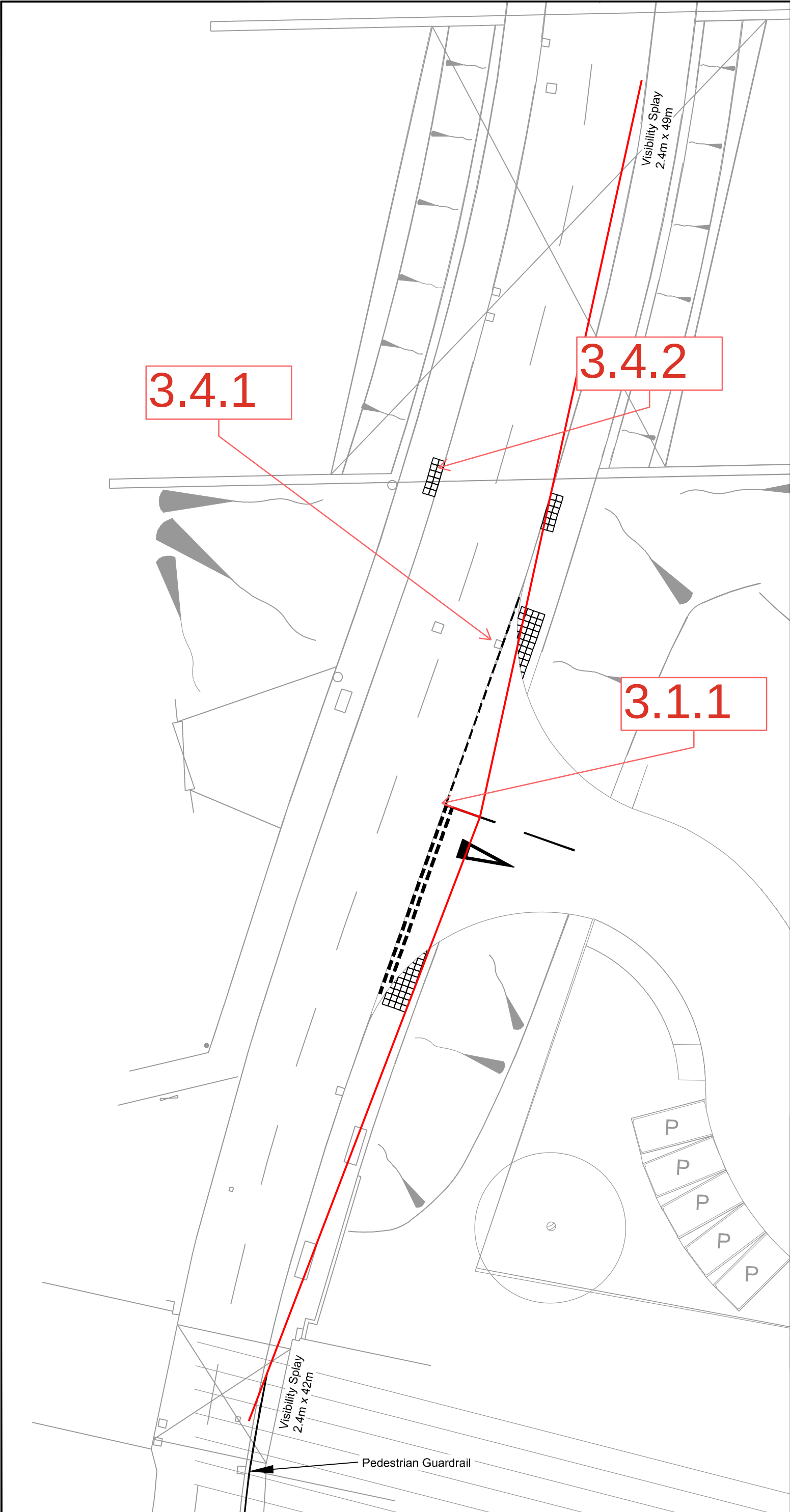
Drawing Number	Title
6096-001 Rev E	Access Visibility
6096-002 Rev D	Pedestrian Crossing and Visibility
6096-201 Rev E	Refuse Access
6096-003 Rev B	Visibility Section
6096-301	Site Location

Supporting documentation:

Transport Statement Bellamy Roberts May 2024.

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).



Notes

Highway boundary

Visibility taken to 300mm from kerbs as per HCC TG3

Speeds -
Northbound: 29.5mph
Southbound: 33mph

E	Access and visibility updated	MB	MT
D	Red line boundary added	MB	MT
C	Site updated	MB	MT
B	Site and access updated	MB	MT
A	Site and access updated	MB	MT
REVISION	AMENDMENT	DRN	CHK

Bellamy Roberts
Clover House
Western Lane
Odiham
Hampshire, RG29 1TU
Tel: 01256 703355
Email: info@bellamyroberts.co.uk

CLIENT

PNH Properties

PROJECT

Interbridges Site, Emsworth

TITLE

Access Visibility

DRAWN BY	MB	DESIGN BY	-	CHECK BY	MT
DATE	23/05/24	DRAWING No.	6096 / 001	REV No.	E
SCALE	1:250 @ A3				

STAGE 1 ROAD SAFETY AUDIT DESIGNER'S RESPONSE

PROPOSAL: Emsworth Business Park, New Brighton Road, Emsworth

REF: MT/RK/6096/DR.2

DATE: 29th November 2024

CLIENT: PNH Properties

This Designer's Response has been prepared following receipt of the Stage 1 Road Safety Audit produced by M & S Traffic (report reference: BR/24/6096/1/MM Rev A)

1. Road Safety Audit decision log

Item No.	RSA Problem	RSA Recommendation	Design Organisation Response	Auditors Response	Overseeing Organisation Response	Agreed RSA Action
3.1.1	Ponding of surface water could lead to loss of control collisions.	It is recommended that the carriageway should adequately drain and not pond and that drainage details should be provided at Stage 2 Safety Audit.	AGREE. Adequate surface water drainage will be provided. This matter will be addressed further at the detailed design stage.	Noted and accepted.		
3.4.1	Gully in the junction mouth could lead to loss of control collisions for cyclists or powered two-wheel riders.	It is recommended that the gully should be repositioned out of the junction mouth.	AGREE. The gully will be repositioned. This will be considered further at the detailed design stage.	Noted and accepted.		

Item No.	RSA Problem	RSA Recommendation	Design Organisation Response	Auditors Response	Overseeing Organisation Response	Agreed RSA Action
3.4.2	Pedestrians crossing from a dark area could lead to sudden braking and rear end shunt collisions, or vehicle to pedestrian collisions.	It is recommended that a suitable lighting should be provided to illuminate pedestrians.	AGREE. Lighting is currently provided on the underside of the bridge. A review of its suitability will be undertaken at the detailed design stage.	Noted and accepted.		

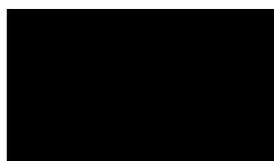
2. Design Organisation and Overseeing Organisation Statements

On behalf of the Design Organisation, I certify that:

- 1) The RSA actions identified in response to the road safety audit problems in this road safety audit have been discussed and agreed with the Overseeing Organisation.

Name: Rose Kleingeld

Signed:



Position: Transport Planner

Organisation: Bellamy Roberts

Date: 22nd November 2024

On behalf of the Auditor, I certify that:

- 1) The RSA actions identified in response to the road safety audit problems in this road safety audit have been discussed and agreed with the Design Organisation; and
- 2) The agreed RSA actions will be progressed.

Name:

Signed:

Position:

Organisation:

Date:

On behalf of the Overseeing Organisation, I certify that:

- 3) The RSA actions identified in response to the road safety audit problems in this road safety audit have been discussed and agreed with the Design Organisation; and
- 4) The agreed RSA actions will be progressed.

Name:

Signed:

Position:

Organisation:

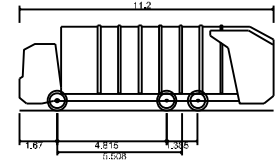
Date:

APPENDIX 12

Swept Path Analysis



Notes



Phoenix 2 Duo (P2-15W with Elite 6x4 chassis)
Overall Length 11.200m
Overall Width 2.530m
Overall Body Height 3.751m
Min Body Ground Clearance 0.304m
Track Width 2.500m
Lock to lock time 4.00s
Kerb to Kerb Turning Radius 9.500m

E	Site and tracking updated	MB	MT
D	Site updated	MB	MT
C	Site and tracking updated	MB	MT
B	Site and tracking updated	MB	MT
A	Site and tracking updated	MB	MT
REVISION	AMENDMENT	DRN	CHK

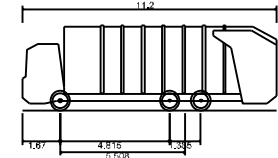


Bellamy Roberts
Clover House
Western Lane
Odiham
Hampshire, RG29 1TU
Tel: 01256 703355
Email: info@bellamyroberts.co.uk

CLIENT	PNH Properties		
PROJECT	Interbridges Site, Emsworth		
TITLE	Refuse Access Tracking		
DRAWN BY	MB	DESIGN BY	MT
DATE	24/05/24	DRAWING No.	6096 / 201
SCALE	1:500 @ A3	REV No.	E



Notes



Phoenix 2 Duo (P2-15W with Elite 6x4 chassis)
Overall Length 11.200m
Overall Width 4.800m
Overall Body Height 2.530m
Min Body Ground Clearance 0.304m
Track Width 2.500m
Lock to lock time 4.00s
Kerb to Kerb Turning Radius 9.500m

D	Site and tracking updated	MB	19/11/24	MT
C	Site updated	MB	19/11/24	MT
B	Site and tracking updated	MB	30/10/24	MT
A	Site updated	MB	04/07/24	MT
REVISION	AMENDMENT	DRN	DATE	CHK



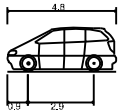
Bellamy Roberts
Clover House
Western Lane
Odiham
Hampshire, RG29 1TU
Tel: 01256 703355
Email: info@bellamyroberts.co.uk

CLIENT	PNH Properties
PROJECT	Interbridges Site, Emsworth
TITLE	Refuse Internal Tracking

DRAWN BY	MB	DESIGN BY	-	CHK BY	MT
DATE	28/06/24	DRAWING No.	6096 / 202	REV No.	D
SCALE	1:500 @ A3				



Notes



Standard Design Vehicle (SDV)
Overall Length 4.800m
Overall Width 2.000m
Overall Body Height 1.950m
Min Body Ground Clearance 0.100m
Track Width 2.300m
Lock to lock time 4.00s
Wall to Wall Turning Radius 6.000m



Bellamy Roberts
Clover House
Western Lane
Odiham
Hampshire, RG29 1TU
Tel: 01256 703355
Email: info@bellamyroberts.co.uk

CLIENT Emsworth Business Park Limited		
PROJECT Interbridges Site, Emsworth		
TITLE Car Parking Tracking		
DRAWN BY MB	DESIGN BY -	CHK BY MT
DATE 20/11/24	DRAWING No. 6096 / 203	
SCALE 1:250 @ A3	REV No.	