



Loddon Garden Village - South

DESIGN RESPONSE

University of Reading

08 July 2025





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Date:	08 July 2025
Document Reference:	A392 – R067 LGV Observer Way RSA 2 Designers Response

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1 Introduction

1.1 Commission

- 1.1.1 This report has been compiled by Abley Letchford as a Designer's Response to the Non-Motorised Audit undertaken by Avon Traffic & Safety Services Ltd.
- 1.1.2 This report has been compiled by the Designer, Abley Letchford, on behalf of University of Reading.
- 1.1.3 Audit recommendations have been taken directly from the original Audit for ease of reference.
- 1.1.4 Where a safety audit recommendation is accepted, this report details the actions proposed to comply with the recommendations. Where a safety audit recommendation is rejected, this report details the justification for rejection.
- 1.1.5 This Designer's Response is to be regarded as the formal Safety Audit Exception Response if required and where applicable.



2 Safety Issues Raised in this Stage 2 Road Safety Audit

2.1 PROBLEM

Location

2.1.1 Cycle slip on to carriageway, west of roundabout on A327

Summary

2.1.2 Risk of cycle destabilisation, There is no dropped kerb indicated where cyclists are required to rejoin the carriageway. Cyclists making this manoeuvre may become destabilised and fall, resulting in injury.

Recommendation

2.1.3 Provide a dropped kerb at this location.

Designers Response

2.1.4 Dropped kerb to be provided and materials plan updated to reflect this.

2.2 PROBLEM

Location

2.2.1 Cycle slip on to shared use path, west of roundabout on A327.

Summary

2.2.2 Risk of cycle destabilisation, It is not clear from drawing 0701 whether a dropped kerb is being provided where cyclists are required to mount the shared use path. If no dropped kerb is provided, cyclists making this manoeuvre may become destabilised and fall, resulting in injury.

Recommendation

2.2.3 Provide a dropped kerb at this location.

Designers Response

2.2.4 Dropped kerb to be provided and materials plan updated to reflect this.

2.3 PROBLEM

Location

2.3.1 New splitter islands around roundabout.

Summary

2.3.2 Risk of vehicles colliding with splitter islands, No reflective bollards have been indicated on the noses of the new splitter islands around the roundabout. These may constitute a collision hazard in darkness or inclement weather.



Recommendation

2.3.3 Provide reflective bollards on the noses of the new splitter islands.

Designers Response

2.3.4 Bollards to be provided

2.4 PROBLEM

Location

2.4.1 Verge area to the west of the new roundabout arm.

Summary

2.4.2 Risk of junction collisions, Some saplings have been planted in this area. As they grow and mature they will restrict visibility to the right for drivers emerging from the new road, increasing the risk of an emerging vehicle being struck by a vehicle entering the roundabout from the north-west.

Recommendation

2.4.3 Remove the saplings.

Designers Response

2.4.4 Saplings to be removed / relocated.

2.5 PROBLEM

Location

2.5.1 Cycle slip on to shared use path, east of roundabout on Reading Road.

Summary

2.5.2 Risk of cycle destabilisation, There is no dropped kerb indicated where cyclists are required to mount the shared use path. Cyclists making this manoeuvre may become destabilised and fall, resulting in injury.

Recommendation

2.5.3 Provide a dropped kerb at this location

Designers Response

2.5.4 Dropped kerb to be provided and materials plan updated to reflect this.

2.6 PROBLEM

Location

2.6.1 Traffic signal controlled crossing, Reading Road east of roundabout.



Summary

- 2.6.2 Risk of signal controller cabinet obstructing the shared use path, The location of the controller cabinet has not been indicated on the drawings. If poorly located, the cabinet and/or an engineer accessing it could obstruct the shared use path, increasing the risk of cycles colliding with the cabinet and/or an engineer accessing it.

Recommendation

- 2.6.3 Ensure that the controller cabinet is positioned such that neither the cabinet, nor the engineer, will obstruct the footway.

Designers Response

- 2.6.4 Noted, will be addressed during detail design as part of detailed traffic signals design.

2.7 PROBLEM

Location

- 2.7.1 Traffic signal controlled crossing, Reading Road east of roundabout.

Summary

- 2.7.2 Risk of passing vehicles colliding with a parked vehicle, and risk of sightlines at the crossing being obstructed by a parked vehicle, No maintenance bay has been indicated for a signal maintenance engineer to park. A vehicle parked on the verge adjacent to the crossing would constitute a collision hazard, and would likely obstruct sightlines at the crossing.

Recommendation

- 2.7.3 Provide a maintenance bay where a maintenance engineer can safely park a vehicle off-carriageway.

Designers Response

- 2.7.4 Noted, will be addressed during detail design as part of detailed traffic signals design.

2.8 PROBLEM

Location

- 2.8.1 Bifurcation arrow, Reading Road east of signalled crossing.

Summary

- 2.8.2 Risk of driver distraction, It is not recommended to include other carriageway markings within crossing zig-zags, to avoid driver distraction where they should be concentrating fully on the crossing ahead.

Recommendation

- 2.8.3 Relocate the bifurcation arrow to the east of the zig-zags.



Designers Response

2.8.4 Road markings to be relocated.

2.9 PROBLEM

Location

2.9.1 Traffic signal controlled crossing, north of roundabout.

Summary

2.9.2 Risk of signal controller cabinet obstructing the shared use path, The location of the controller cabinet has not been indicated on the drawings. If poorly located, the cabinet and/or an engineer accessing it could obstruct the shared use path, increasing the risk of cycles colliding with the cabinet and/or an engineer accessing it.

Recommendation

2.9.3 Ensure that the controller cabinet is positioned such that neither the cabinet, nor the engineer, will obstruct the footway.

Designers Response

2.9.4 Noted, will be addressed during detail design as part of detailed traffic signals design.

2.10 PROBLEM

Location

2.10.1 Traffic signal controlled crossing, north of roundabout

Summary

2.10.2 Risk of passing vehicles colliding with a parked vehicle, and risk of sightlines at the crossing being obstructed by a parked vehicle, No maintenance bay has been indicated for a signal maintenance engineer to park. A vehicle parked on the verge adjacent to the crossing would constitute a collision hazard, and would likely obstruct sightlines at the crossing.

Recommendation

2.10.3 Provide a maintenance bay where a maintenance engineer can safely park a vehicle off-carriageway.

Designers Response

2.10.4 Noted, will be addressed during detail design as part of detailed traffic signals design.



2.11 PROBLEM

Location

2.11.1 Traffic signal controlled crossing, north of roundabout.

Summary

2.11.2 Risk of user confusion and vehicle/pedestrian or vehicle/cycle collisions, The crossing indicated on the drawings includes a striped zebra-style crossing, however the crossing is signal controlled, therefore the zebra stripes are not appropriate. Pedestrians or cyclists crossing may interpret the markings as a crossing where they have priority, and try to cross when the signals are at green for motorists, increasing the risk of being struck by a passing vehicle.

Recommendation

2.11.3 Remove the zebra markings from the crossing.

Designers Response

2.11.4 Traffic signals to be removed to provide a tiger crossing rather than a signalised crossing.

2.12 PROBLEM

Location

2.12.1 Central refuge islands on new road.

Summary

2.12.2 Risk of vehicles colliding with refuge islands, No reflective bollards have been indicated on the noses of the refuge islands on the new road. These may constitute a collision hazard in darkness or inclement weather. Furthermore, the length of tapered hatching on the approaches to the islands appears to be significantly shorter than that recommended in Traffic Signs Manual Chapter 5, which may increase the risk of vehicles colliding with the islands.

Recommendation

2.12.3 Provide reflective bollards on the noses of the refuge islands. Check that the hatching taper lengths comply with local highway authority policy (refer also to table 2.7, Traffic Signs Manual Chapter 5).

Designers Response

2.12.4 Bollards to be provided and tapers to be reviewed and amended accordingly.

2.13 PROBLEM

Location

2.13.1 Paths crossing side roads (general) – tactile paving



Summary

- 2.13.2 Risk of vehicle/pedestrian collisions, The tactile paving indicated does not stretch for the full width of the paths where they cross the side roads. There is a risk that pedestrians with a sight impairment may miss the tactiles and walk into the carriageway without realising they are doing so.

Recommendation

- 2.13.3 Ensure the tactile paving covers the full width of the paths.

Designers Response

- 2.13.4 Tactile paving to be extended.

2.14 PROBLEM

Location

- 2.14.1 Paths crossing side roads (general) – transverse lines.

Summary

- 2.14.2 Risk of driver confusion, The locations where paths cross the side roads feature two solid lines across the side road carriageway. It was not clear to the auditors if these indicate carriageway markings, however if they are, they would indicate a stop line, which is inappropriate and may confuse drivers.

Recommendation

- 2.14.3 Remove the transverse lines.

Designers Response

- 2.14.4 Drawing will be amended to avoid confusion and transverse kerbs will be included in appropriate materials plans.

2.15 PROBLEM

Location

- 2.15.1 Both traffic signal controlled crossings.

Summary

- 2.15.2 Risk of driver confusion, The zig-zag layouts of both crossings appear incorrect. They should be opposing on the approach, and parallel on the exit.

Recommendation

- 2.15.3 Ensure zig-zag markings are correct.



Designers Response

2.15.4 Road markings to be amended

2.16 PROBLEM

Location

2.16.1 Whole scheme, location of drainage gullies.

Summary

2.16.2 Risk of pedestrian trips, The locations of drainage gullies has not been indicated on the drawings. Gullies adjacent to pedestrian dropped kerbs can be hazardous for wearers of thin heels, which may become trapped in the gully leading to trips.

Recommendation

2.16.3 Ensure drainage gullies are not located adjacent to pedestrian dropped kerbs.

Designers Response

2.16.4 2.12.4 Noted, various SUDS features are to be explored to avoid the use of conventional gully systems where applicable. Where gullies are to be introduced this will be considered as part of detailed design.



Appendices



Appendix 1 - Stage 2 Road Safety Audit

Road Safety Audit – Loddon Garden Village - Observer Way Roundabout

Stage: 2

Location: A327 Reading Road/Observer Way roundabout

Site: Proposed addition of a fifth arm to an existing roundabout

ATSS Ref: 250606A

Client Ref: A392 – Loddon Garden Village

Date: 7 July 2025



Project Details

Report Title:	Stage 2 road safety audit, Loddon Garden Village Observer Way Roundabout
Date:	7 July 2025
Document reference and revision:	250606A V1
Prepared by:	Avon Traffic & Safety Services Ltd
On behalf of:	Abley Letchford

Report Control Sheet

	Name	Position	Date
Audit requested by	Chris Shaw	Abley Letchford	30 June 2025
Team leader	Nick Jeanes	Team Leader	
Team Member	Darren Cox	Team Member	
Observer			
Draft report issued by	Nick Jeanes	Team Leader	7 July 2025
Final report issued by	Nick Jeanes	Team Leader	7 July 2025
Designer's response issued by			

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1. Introduction

- 1.1 Avon Traffic & Safety Services Ltd has been commissioned by Abley Letchford, to undertake a Stage 2 Road Safety Audit (RSA), with regard to the proposals to introduce a fifth arm to an existing four arm roundabout, to provide access to a proposed major residential development known as Loddon Garden Village. The proposals include a 5.0 metre wide cycleway + footway on the east side of the new road, connecting to a proposed Toucan crossing over the Reading Road unclassified arm, to reach the existing shared use path on the south side of Reading Road. Also included are a 3.0 metre wide shared use path on the west side of the new road, a parallel crossing of the new road a short distance north of the roundabout, and a central pedestrian refuge with informal crossing approximately 150 metres north of the roundabout.
- 1.2 The RSA Brief was supplied by Abley Letchford and accepted by the Audit Team. The Brief and Audit Team were approved by Chris Shaw, Abley Letchford. The site was subject of a stage 1 road safety audit in March 2025 (ATSS ref. 250218). The current audit is one of 3 audits being carried out for the Loddon Garden development, the others being 250606B (southern block) and 250606C (northern block). No details of drainage gully locations, traffic signs or street lighting have been supplied to the auditors.
- 1.3 The A327 links Shinfield to the north with Arborfield Green to the south, and joins an unclassified road to the east at a large roundabout. A fourth arm is to the south west of the roundabout, leading to a gated road to a private property. The audit site is level with broad, open approaches on the three main arms. The character of the road is generally semi-rural, with no frontagers and roads lined by verges and trees. There is a shared use path to the east side of the A327 to the south of the roundabout, which continues into the unclassified road for a short distance before becoming a footway. There are also short lengths of shared use path to the west and north of the roundabout, allowing cyclists to avoid the circulatory carriageway, however there are no paths of any kind on the A327 to the west of the roundabout. There is a full system of street lighting, with a 50 mph speed limit on the A327, and 30 mph on the unclassified road.
- 1.4 The audit team members are:
- | | | |
|-------------|---|-------------|
| Nick Jeanes | – | Team Leader |
| Darren Cox | – | Team Member |
- 1.5 The audit took place during July 2025 and comprised of an examination of the documents/plans listed in Appendix A. The auditors visited site together between 15.45 and 16.15 on Friday 4 July when the weather conditions were dry and sunny with a dry road. Vehicle flows were moderate and speeds appeared commensurate with the speed limit. No pedestrians or cyclists were observed.

- 1.6 Data from Crashmap.org show that there have been two reported collisions involving injury, in the 5 years 2019-2023 inclusive, in the vicinity of the proposals. Both occurred on the unclassified Reading Road. The first, in June 2021, involved a car and cycle, resulting in a slight injury. The second, in July 2021, appeared to involve two cars colliding head on, and resulted in one fatal and one serious injury.
- 1.7 No existing/predicted vehicle flows or speed data have been supplied.
- 1.8 The audit team have not been made aware of any departures from standards or relaxations in relation to the proposed scheme.
- 1.9 The audit was carried out under the terms and conditions of DMRB GG 119. The team examined and reported only on the road safety implications of the scheme as presented and has not examined or verified the compliance of the design with any other criteria. However, reference may be made to National/Local Guidance in order to verify a point.
- 1.10 Documents and drawings examined in this safety audit are listed at Appendix A.

1.11 General views of site



Looking south-east on the A327. In the lower photo, the unclassified road continues ahead, and the proposed new road will join from the left, beyond the lamp column



Views to left and right for a driver emerging from the new roundabout arm



Views from west (top) and east of the proposed Toucan site on the unclassified section of Reading Road

2. Safety Issues Raised in this Stage 2 Road Safety Audit. (see Appendix B for locations)

2.1 Problem

Location – Cycle slip on to carriageway, west of roundabout on A327

Summary – Risk of cycle destabilisation

There is no dropped kerb indicated where cyclists are required to rejoin the carriageway. Cyclists making this manoeuvre may become destabilised and fall, resulting in injury

Recommendation – Provide a dropped kerb at this location

2.2 Problem

Location – Cycle slip on to shared use path, west of roundabout on A327

Summary – Risk of cycle destabilisation

It is not clear from drawing 0701 whether a dropped kerb is being provided where cyclists are required to mount the shared use path. If no dropped kerb is provided, cyclists making this manoeuvre may become destabilised and fall, resulting in injury

Recommendation – Provide a dropped kerb at this location

2.3 Problem

Location – New splitter islands around roundabout

Summary – Risk of vehicles colliding with splitter islands

No reflective bollards have been indicated on the noses of the new splitter islands around the roundabout. These may constitute a collision hazard in darkness or inclement weather

Recommendation – Provide reflective bollards on the noses of the new splitter islands

2.4 Problem

Location – Verge area to the west of the new roundabout arm

Summary – Risk of junction collisions

Some saplings have been planted in this area. As they grow and mature they will restrict visibility to the right for drivers emerging from the new road, increasing the risk of an emerging vehicle being struck by a vehicle entering the roundabout from the north-west



Mature trees here will restrict visibility to the right

Recommendation – Remove the saplings

2.5 Problem

Location – Cycle slip on to shared use path, east of roundabout on Reading Road

Summary – Risk of cycle destabilisation

There is no dropped kerb indicated where cyclists are required to mount the shared use path. Cyclists making this manoeuvre may become destabilised and fall, resulting in injury

Recommendation – Provide a dropped kerb at this location

2.6 Problem

Location – Traffic signal controlled crossing, Reading Road east of roundabout

Summary – Risk of signal controller cabinet obstructing the shared use path

The location of the controller cabinet has not been indicated on the drawings. If poorly located, the cabinet and/or an engineer accessing it could obstruct the shared use path, increasing the risk of cycles colliding with the cabinet and/or an engineer accessing it

Recommendation – Ensure that the controller cabinet is positioned such that neither the cabinet, nor the engineer, will obstruct the footway

2.7 Problem

Location – Traffic signal controlled crossing, Reading Road east of roundabout

Summary – Risk of passing vehicles colliding with a parked vehicle, and risk of sightlines at the crossing being obstructed by a parked vehicle

No maintenance bay has been indicated for a signal maintenance engineer to park. A vehicle parked on the verge adjacent to the crossing would constitute a collision hazard, and would likely obstruct sightlines at the crossing

Recommendation – Provide a maintenance bay where a maintenance engineer can safely park a vehicle off-carriageway

2.8 Problem

Location – Bifurcation arrow, Reading Road east of signalled crossing

Summary – Risk of driver distraction

It is not recommended to include other carriageway markings within crossing zig-zags, to avoid driver distraction where they should be concentrating fully on the crossing ahead

Recommendation – Relocate the bifurcation arrow to the east of the zig-zags

2.9 Problem

Location – Traffic signal controlled crossing, north of roundabout

Summary – Risk of signal controller cabinet obstructing the shared use path

The location of the controller cabinet has not been indicated on the drawings. If poorly located, the cabinet and/or an engineer accessing it could obstruct the shared use path, increasing the risk of cycles colliding with the cabinet and/or an engineer accessing it

Recommendation – Ensure that the controller cabinet is positioned such that neither the cabinet, nor the engineer, will obstruct the footway

2.10 Problem

Location – Traffic signal controlled crossing, north of roundabout

Summary – Risk of passing vehicles colliding with a parked vehicle, and risk of sightlines at the crossing being obstructed by a parked vehicle

No maintenance bay has been indicated for a signal maintenance engineer to park. A vehicle parked on the verge adjacent to the crossing would constitute a collision hazard, and would likely obstruct sightlines at the crossing

Recommendation – Provide a maintenance bay where a maintenance engineer can safely park a vehicle off-carriageway

2.11 Problem

Location – Traffic signal controlled crossing, north of roundabout

Summary – Risk of user confusion and vehicle/pedestrian or vehicle/cycle collisions

The crossing indicated on the drawings includes a striped zebra-style crossing, however the crossing is signal controlled, therefore the zebra stripes are not appropriate. Pedestrians or cyclists crossing may interpret the markings as a crossing where they have priority, and try to cross when the signals are at green for motorists, increasing the risk of being struck by a passing vehicle

Recommendation – Remove the zebra markings from the crossing

2.12 Problem

Location – Central refuge islands on new road

Summary – Risk of vehicles colliding with refuge islands

No reflective bollards have been indicated on the noses of the refuge islands on the new road. These may constitute a collision hazard in darkness or inclement weather. Furthermore, the length of tapered hatching on the approaches to the islands appears to be significantly shorter than that recommended in Traffic Signs Manual Chapter 5, which may increase the risk of vehicles colliding with the islands

Recommendation – Provide reflective bollards on the noses of the refuge islands. Check that the hatching taper lengths comply with local highway authority policy (refer also to table 2.7, Traffic Signs Manual Chapter 5)

2.13 Problem

Location – Paths crossing side roads (general) – tactile paving

Summary – Risk of vehicle/pedestrian collisions

The tactile paving indicated does not stretch for the full width of the paths where they cross the side roads. There is a risk that pedestrians with a sight impairment may miss the tactiles and walk into the carriageway without realising they are doing so

Recommendation – Ensure the tactile paving covers the full width of the paths

2.14 Problem

Location – Paths crossing side roads (general) – transverse lines

Summary – Risk of driver confusion

The locations where paths cross the side roads feature two solid lines across the side road carriageway. It was not clear to the auditors if these indicate carriageway markings, however if they are, they would indicate a stop line, which is inappropriate and may confuse drivers

Recommendation – Remove the transverse lines

2.15 Problem

Location – Both traffic signal controlled crossings

Summary – Risk of driver confusion

The zig-zag layouts of both crossings appear incorrect. They should be opposing on the approach, and parallel on the exit

Recommendation – Ensure zig-zag markings are correct

2.16 Problem

Location – Whole scheme, location of drainage gullies

Summary – Risk of pedestrian trips

The locations of drainage gullies has not been indicated on the drawings. Gullies adjacent to pedestrian dropped kerbs can be hazardous for wearers of thin heels, which may become trapped in the gully leading to trips

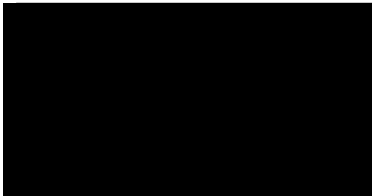
Recommendation – Ensure drainage gullies are not located adjacent to pedestrian dropped kerbs

3. Audit Team Statement

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

Audit Team Leader:

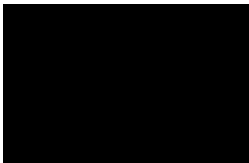
Name: Nick Jeanes MCIHT; MSoRSA; NH Cert. Comp.
Director



Signed: Date: 7/7/2025

Audit Team Member:

Name: Darren Cox FIHE; MSoRSA; NH Cert. Comp.
Senior Auditor



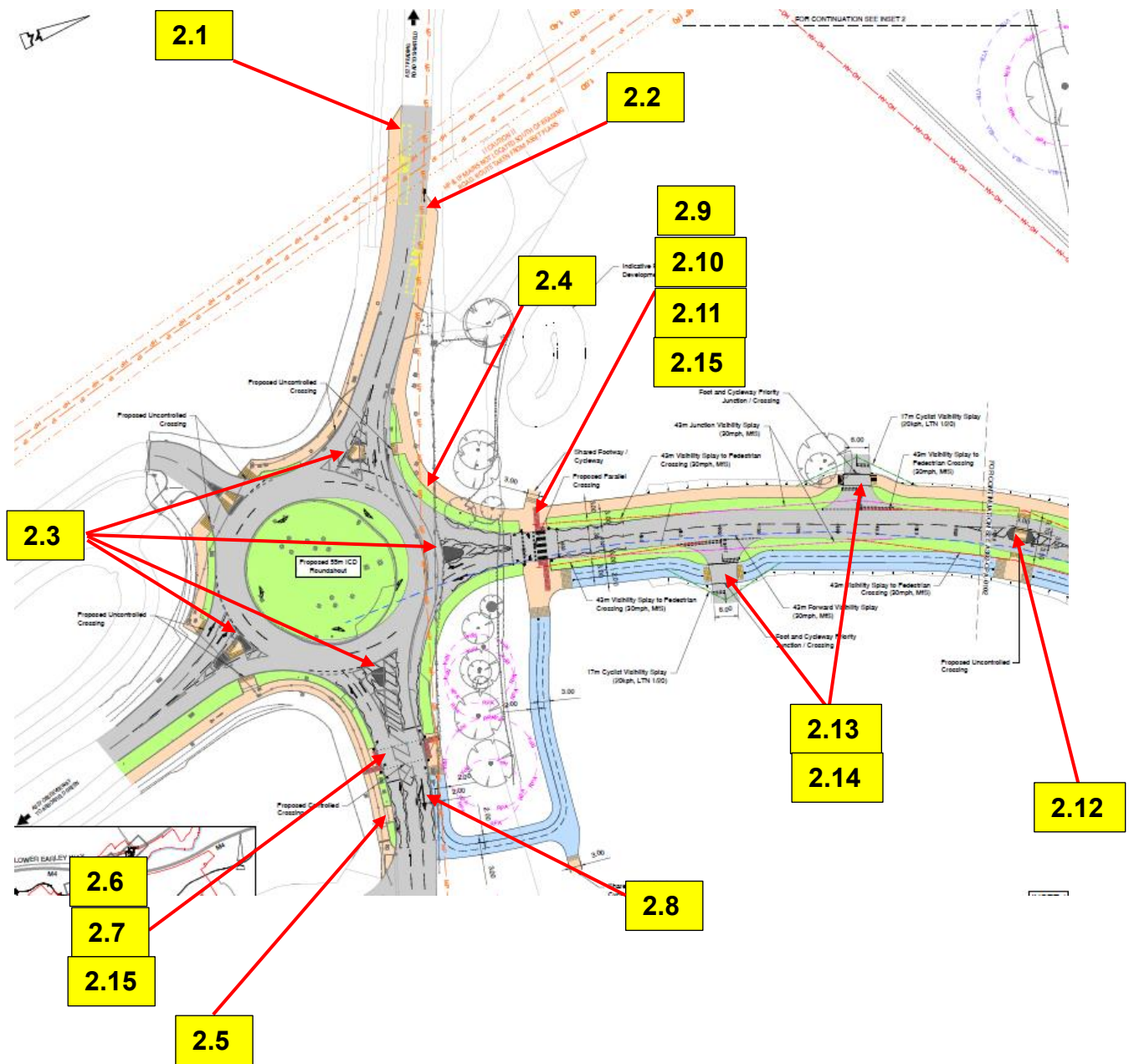
Signed: Date: 7/7/2025

Appendix A: Information Utilised in this Stage 2 Road Safety Audit

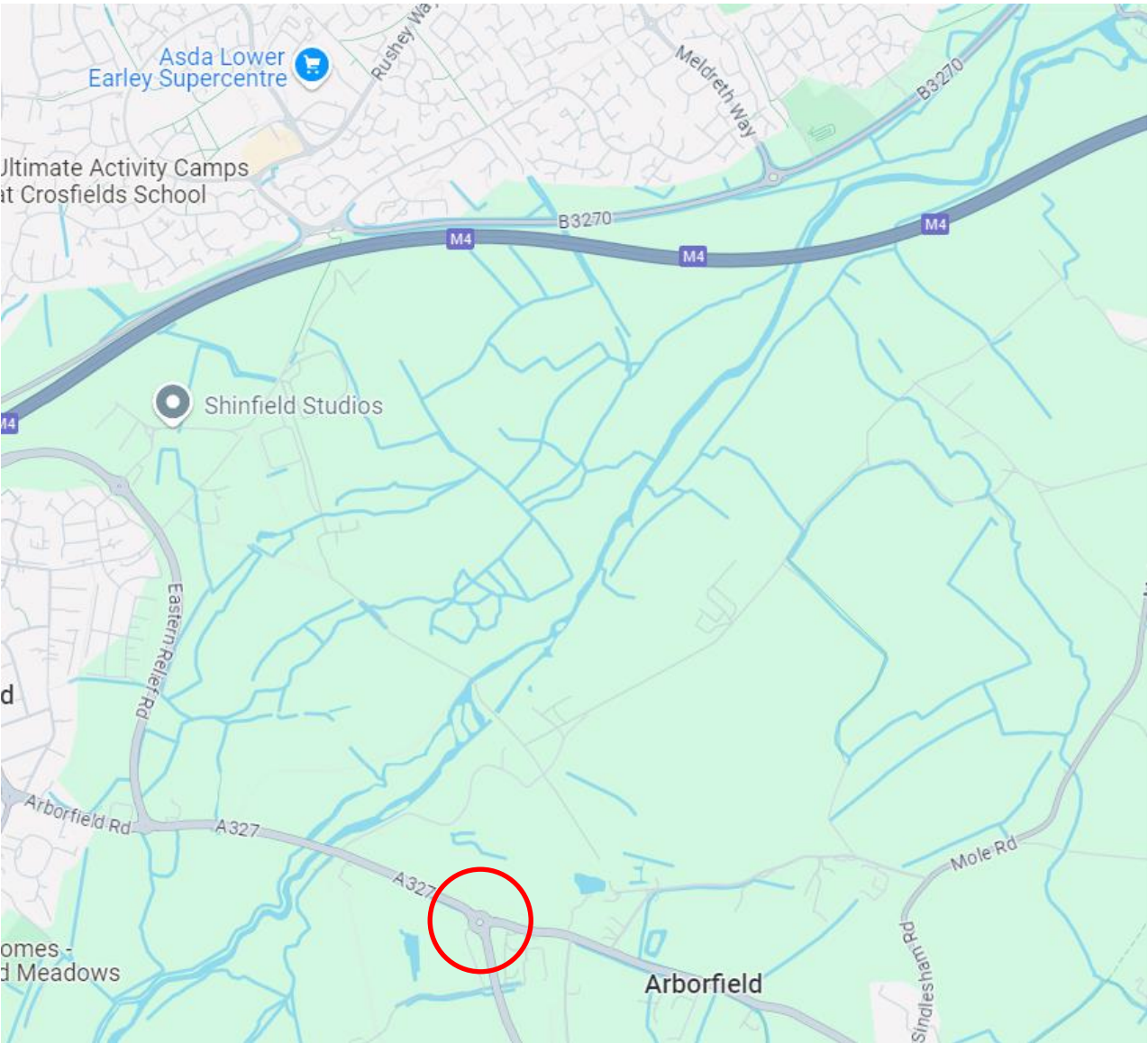
Drawings:

A392-OPA-0720 Highways Standard Details
A392-OPA-0701 Materials Plan Sheet 1 A
A392-OPA-0550 Typical Foul Pump Station General Arrangement A
A392-OPA-0540 Basin Sections Basin 1,2,3&4 A
A392-OPA-0530 Drainage Details Sheet 1 A
A392-OPA-0520 Storm Water Catchment Plan Sheet 1 A
A392-OPA-0501 Drainage & Levels Layout Sheet 1 A
A392-OPA-0146 Tracking Bus Swept Paths Sheet 1 A
A392-OPA-0140 Tracking Refuse Vehicle and Fire Tender Swept Path Sheet 1 A
A392-OPA-0130 Longitudinal Section Sheet 1 A
A392-OPA-0121 River Loddon Crossing Plan and Profile A
A392-OPA-0120 M4 Motorway Crossing Plan and Profile A
A392-OPA-0101 General Arrangement Sheet 1 B
A392-1048 P1 - Observer Way Compliance Drawing
498048 - OPA 2025 - LGV Land Use PP + areas 290525

Appendix B: Key Plan showing Audit Problems

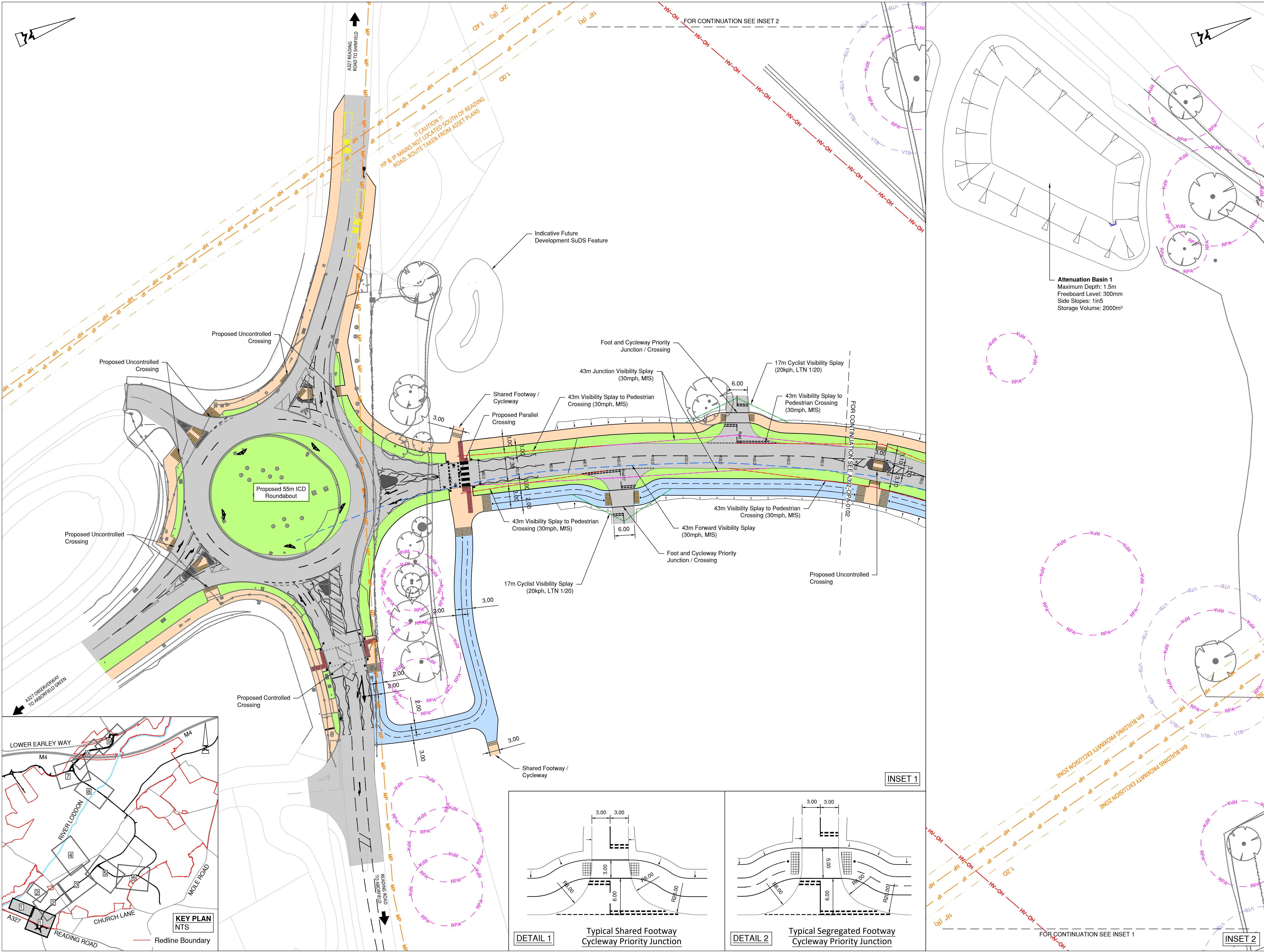


Appendix C – Site location plan





Appendix 2 - Drawings Submitted for Safety Audit



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GENERAL NOTES:

- Do not scale.
- Refer to all other Project Drawings and supporting notes.

KEY:

General:

- Uncontrolled Blister Tactile Paving at Dropped Crossing
- Controlled Blister Tactile Paving at Signalised Crossing
- Segregated Footway / Cycleway Corduroy Tactiles
- Indicative Traffic Signal
- Proposed Bollard Diag. 956 & 957
- Proposed 5m Segregated Footway / Cycleway
- Proposed 3m Shared Footway / Cycleway
- Proposed 2m Footway
- Proposed Verge
- Proposed Carriageway
- Proposed Hard Standing
- Proposed Mown Path Route
- Proposed Hoggin Route
- Proposed Batter Slope 1in5
- Proposed Batter Slope 1in3
- Proposed Headwall
- Proposed Culvert

Ecology Survey - Received by EPR on 16/05/25:

- Veteran Tree Buffer

Arboricultural Survey - Received by FLAC on 15/05/25:

- RPA Root Protection Area
- VTB Veteran Tree Protection Area

Existing Utilities

- 33KV Existing 33KV Overhead HV Cable
- 132KV Existing 132KV Overhead HV Cable
- HV-OH Unspecified Overhead HV Cable
- Overhead HV 15m Clearance
- Pylon 20m Clearance
- HP Existing High Pressure Gas
- MP Existing Medium Pressure Gas
- IP Existing Low Pressure Gas
- Existing Gas 3m Clearance

Refer to Drawing A392-OPA-0101 for Typical Footway Cycleway Junction Details.

Scale 1:500

0	5	10	15	20	25m
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B	07.25	OBSERVER WAY ROUNDABOUT ALIGNMENT UPDATED	RG	CS
A	06.25	FIRST ISSUE	RG	CS
Rev	Date	Description	Drawn	Checked

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Client

UNIVERSITY OF READING

Project

LODDON GARDEN VILLAGE

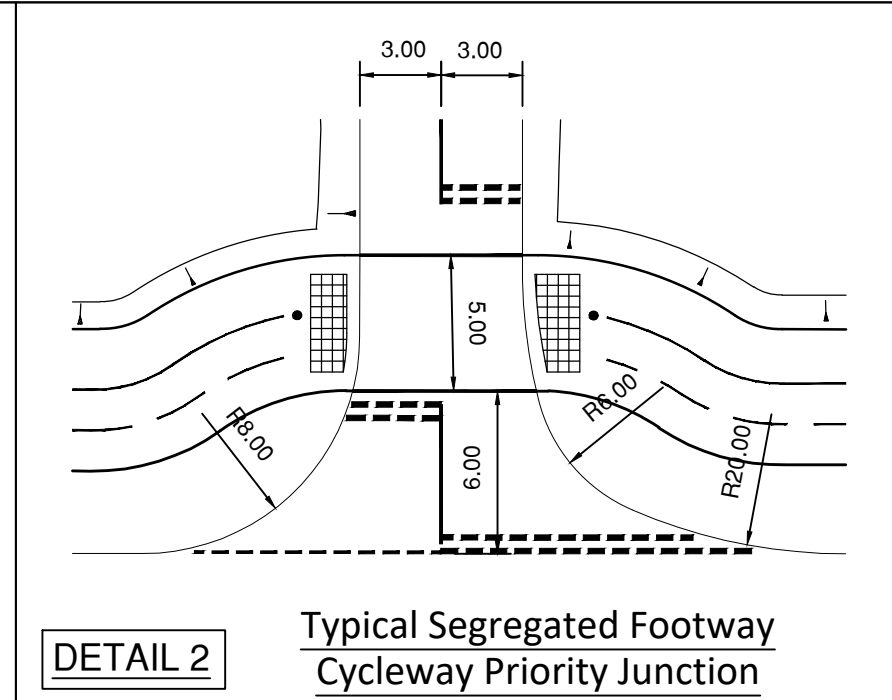
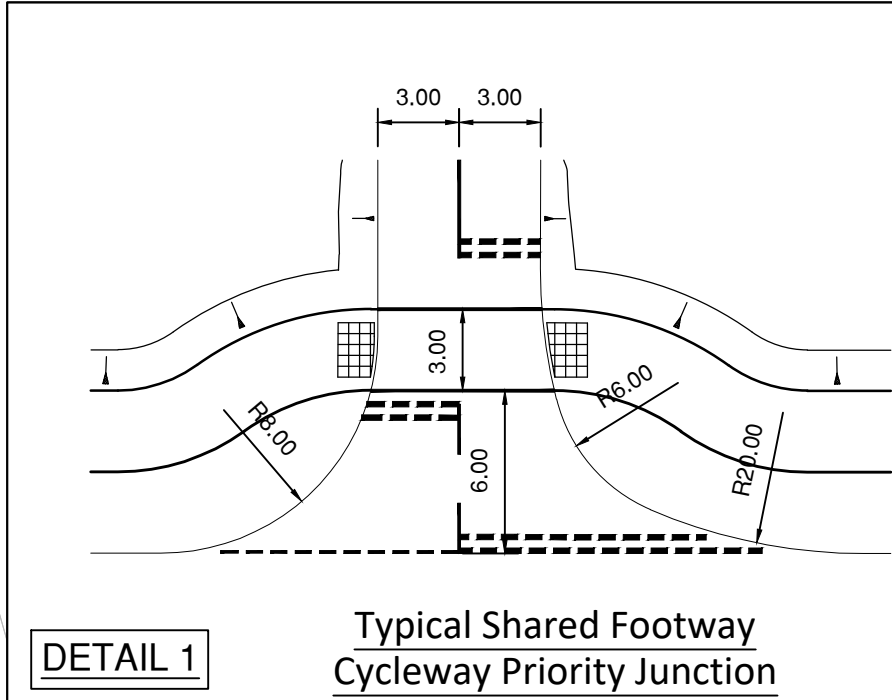
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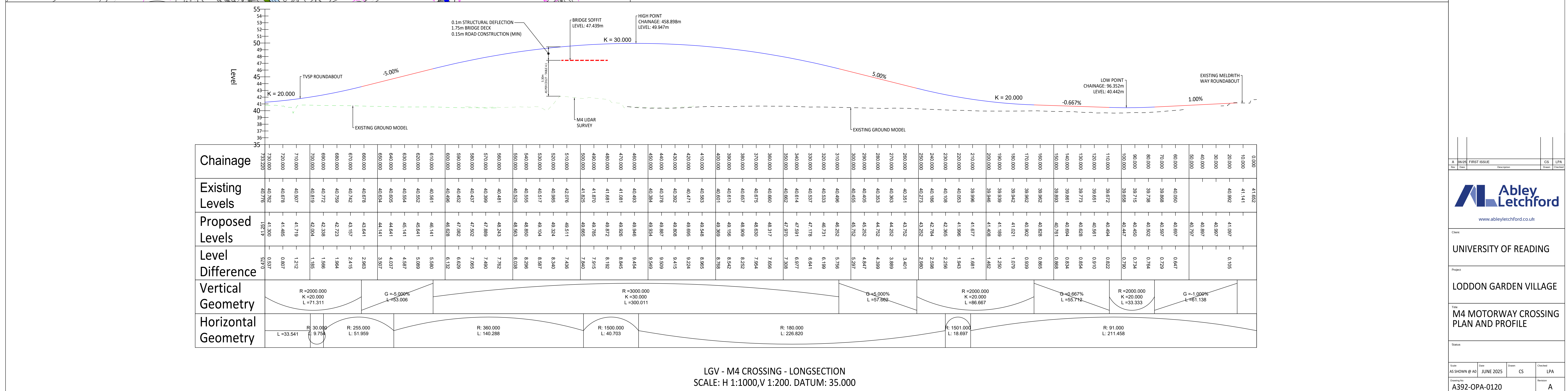
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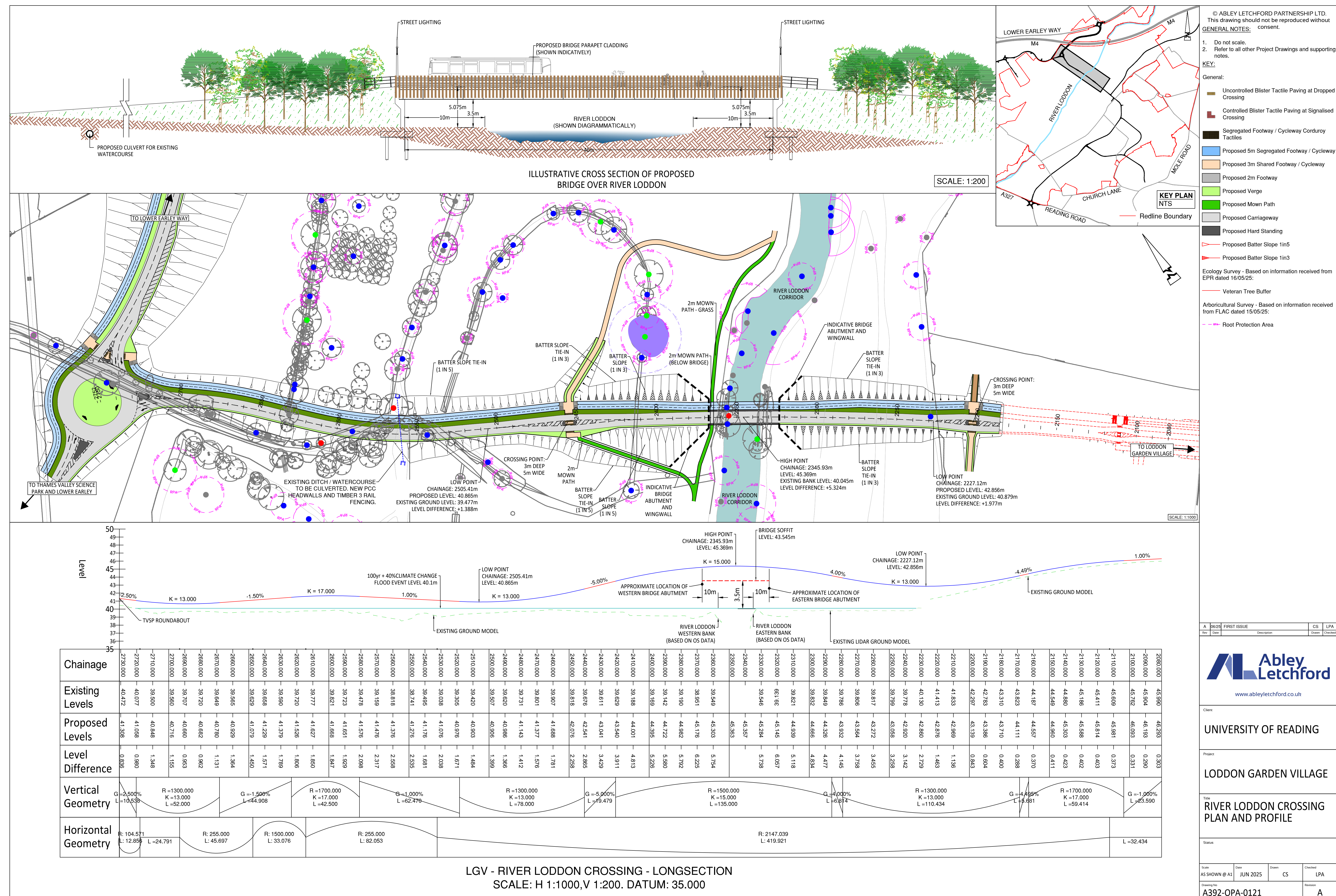
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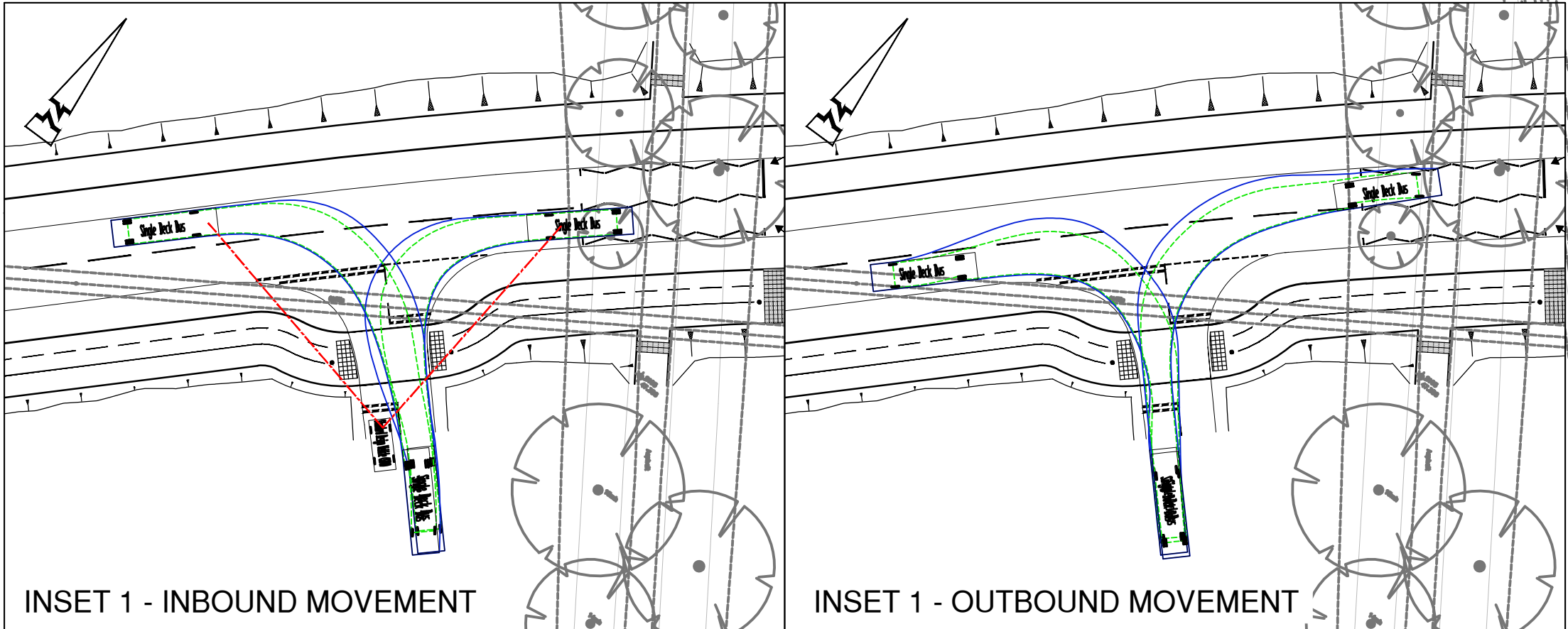
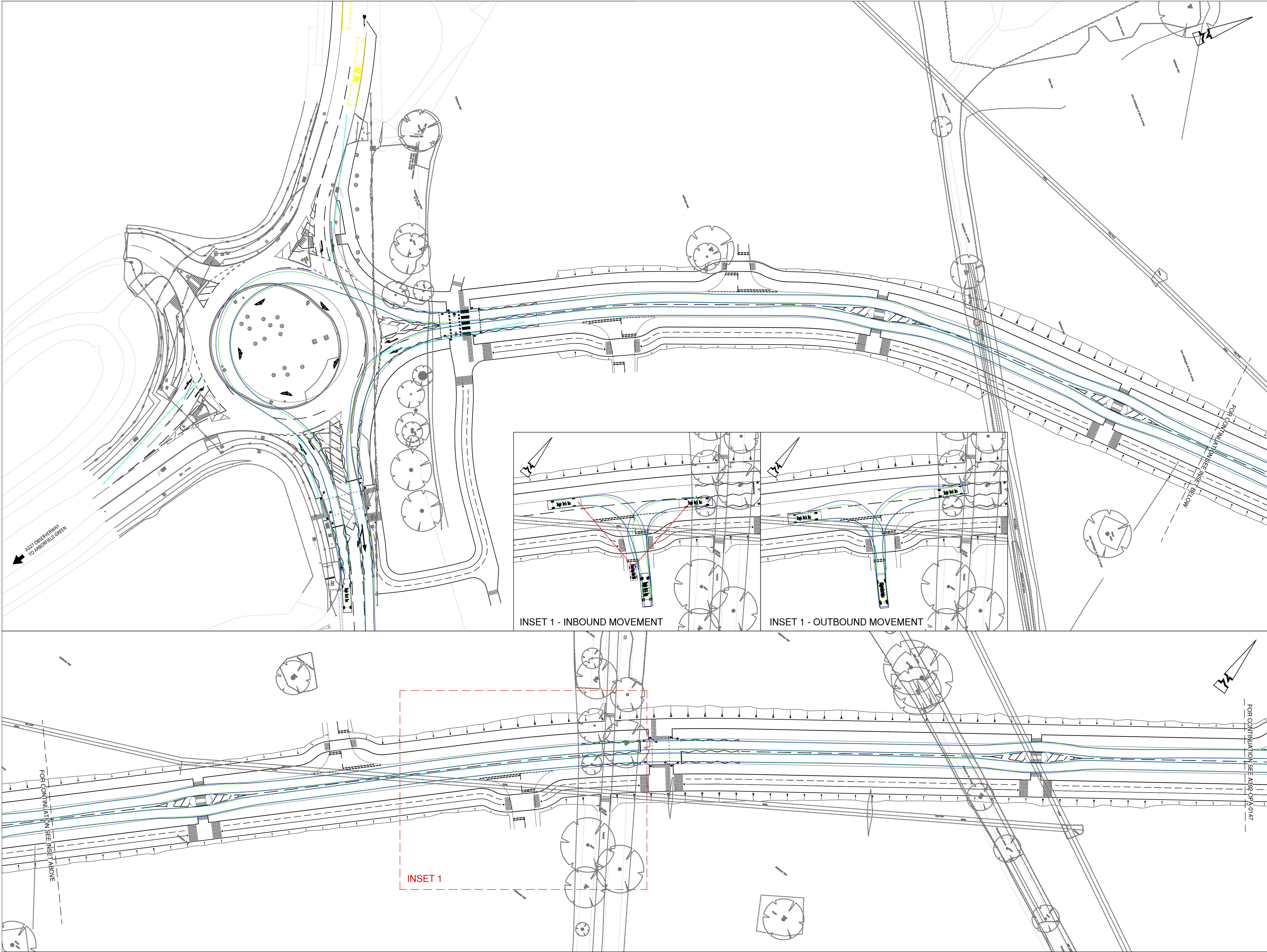
Scale	Date	Drawn	Checked
1:500 @ A1	JUN 2025	RG	CS

Drawing No	Revision
A392-OPA-0101	B









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GENERAL NOTES:

- Do not scale.
- Refer to all other Project Drawings and supporting notes.

VEHICLE DIMENSIONS AND SPECIFICATIONS:

Single Deck Bus

Overall Length	9.795m
Overall Width	2.500m
Overall Body Height	3.070m
Min Body Ground Clearance	0.305m
Track Width	2.002m
Lock to lock time	6.00s
Kerb to Kerb Turning Radius	10.111m

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	2.000m
Lock to lock time	4.00s
Wall to Wall Turning Radius	6.000m

KEY:

- Approach Sightlines to Junction
- 120m Roundabout Visibility Splay (40mph, DMRB CD109)
- 43m Roundabout Visibility Splay (30mph, MIS)

Scale 1:500

KEY PLAN
NTS

Redline Boundary

A	06.25	FIRST ISSUE	RG	CS
Rev	Date	Description	Drawn	Checked

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UNIVERSITY OF READING

Project

LODDON GARDEN VILLAGE

Title

BUS SWEEP PATHS
SHEET 1 OF 4

Status

Scale	Date	Drawn	Checked
1:500 @ A1	JUN 2025	RG	CS

Drawing No	Revision
A392-OPA-0146	A