

Little Island, Co. Cork

Courtstown Housing Development
Little Island, Co. Cork



Stage 1 Road Safety Audit

June 2024





DOCUMENT CONTROL SHEET

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MHL Consulting Engineers
Unit 1B,
The Atrium,
Blackpool,
Cork

Tel: 021 – 4840214
Fax: 021 - 4840215

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1. INTRODUCTION

M.H.L. & Associates Ltd. Consulting Engineers have been engaged by Estuary View Enterprises Ltd. to prepare a Stage 1 Road Safety Audit (RSA) for the proposed Courtstown residential development. This Stage 1/2 Road Safety Audit will be submitted as part of an LRD planning application to An Bord Pleanála for each phase.

The proposed development is located on a greenfield site 100m to the west of the Harbour Point Business Park Industrial Estate. The applicant proposed to develop 170 no. residential units, a 256 sq.m creche and a 311 sq.m retail offering.

The site will be served by individual vehicular access junction onto Ballytrasna Park Road. Refer to Figure 1.3 below. This audit considers the development access points onto the public road and facilities on the access road and public road and footway.

The development is to be accessed via a new signalised junction located within the 50kph speed control.

See Figure 1.1 Site Location Map. Figure 1.2 shows the site extents on aerial photography, Figure 1.3 shows the proposed junction alterations and Figure 1.4 shows the proposed site layout.

The Audit Team consists of Brian Loughrey (team leader, TII Ref No. **BL68284**), Ken Manley (team member, TII Ref No. **KM1319724**) of MHL Consulting Engineers.

The team made a site visit on Friday 7th June 2024. The weather was dry at the time of the visit.

Information provided to assist the Audit consists of the drawings and documents listed in Appendix B. The information provided was considered adequate in terms of detail for the purpose of carrying out a Stage 1/2 road safety audit.

No previous Road Safety Audit report was provided in relation to the development.

No specific Road Collision data was provided to the audit team. The auditors reviewed the RSA Road Collision Statistics, in the vicinity of the applicant site. No traffic collisions were reported in the period 2005 – 2016.

The Audit has been carried out in accordance with the relevant sections of TII Publication GE-STY-01024 (formerly NRA HD 19/15), "Road Safety Audit". The scheme has not been examined or verified for compliance with any other standards or criteria. The team drove the local road network and walked the road along the site road boundaries and compiled a list of road safety problems and associated recommendations which are presented in this report. Appendix A contains some photographs of the site.

An Audit Team Statement is included at the end of the Report. Appendix D contains the Safety Audit Feedback Form.



Figure 1.1 – Site Location Map



Figure 1.2 – Site Extents

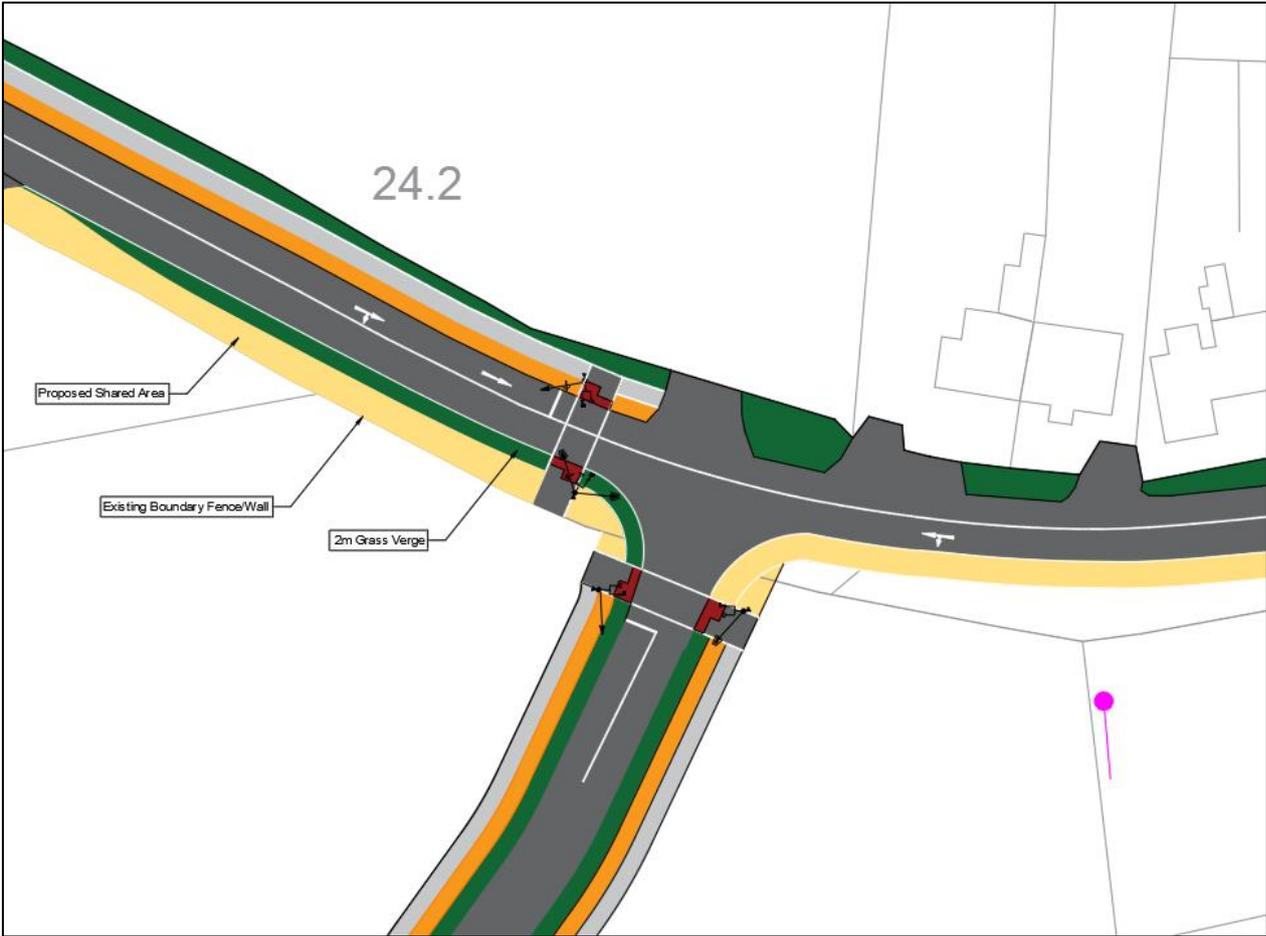


Figure 1.3 –Proposed Site Entrance



Figure 1.4 – Proposed Site layout

2. AUDIT ISSUES

2.1 PROBLEM: DISCONTINUITY OF CYCLE LANE/FOOTPATH

The cycle lane and footpath on the northern side of the western approach ceases following the pedestrian/cycle crossing. This could result in hazardous conditions for both pedestrians and cyclists merging with vehicular traffic. Refer to Figure 2.1.

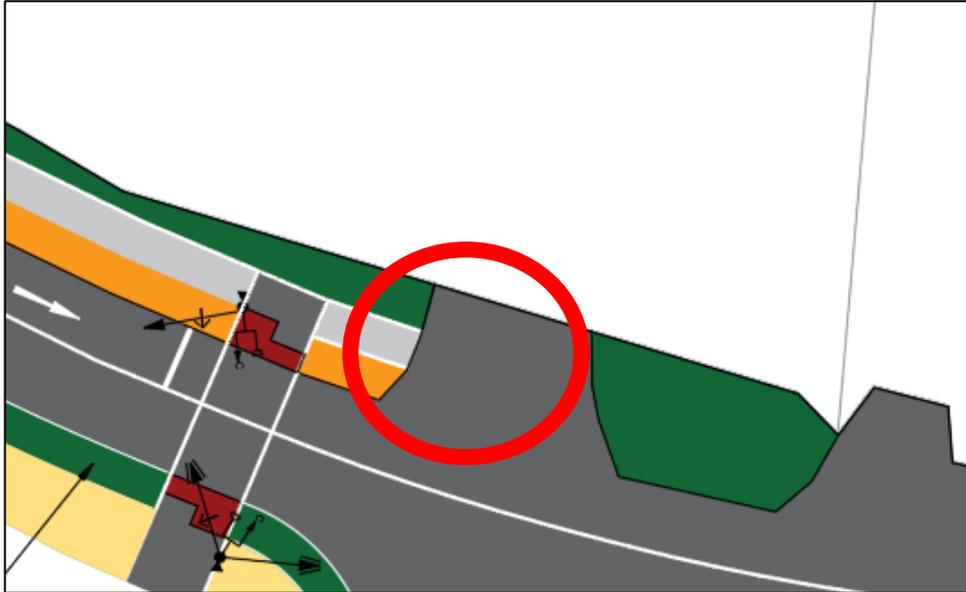


Figure 2.1, Discontinuity of Cycle Lane & Footpath

Recommendation 1

At detailed design the proposed tie-in should be in line with the proposed council scheme for this area.

2.2 PROBLEM: NO STOPLINE OR TRAFFIC SIGNAL ON EASTERN APPROACH

The eastern approach road has no traffic signals or stop line at the proposed signalised junction. This could result in traffic approaching from the east and not stopping at the junction putting other vehicles, pedestrians and cyclists at risk. Refer to Figure 2.2.

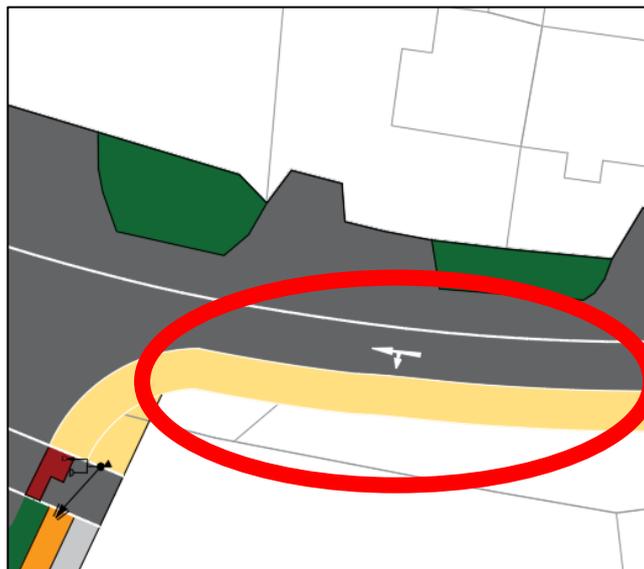


Figure 2.2, No Stopline or Traffic Signal

Recommendation 2

Ensure a stop line and traffic signal is included in all directions of the junction.

2.3 PROBLEM: RADIUS OF SHARED SURFACE ACUTE

There is no radius on the shared surface on the exit from the proposed site. This acute angle could result in collisions between cyclists and pedestrians as they turn the corner.



Figure 2.3, Radius of Shared Surface Acute

Recommendation 3

At detailed design these corners should be designed with appropriate radii to ensure the safety of the users and to enable it to tie in with the proposed council scheme.

2.4 PROBLEM: SHARED SURFACE WIDTH OF EASTERN APPROACH

The shared surface width along the eastern approach is not in line with the proposed council's scheme for the Courtstown area. This could result in collisions between cyclists and pedestrians travelling on this surface.

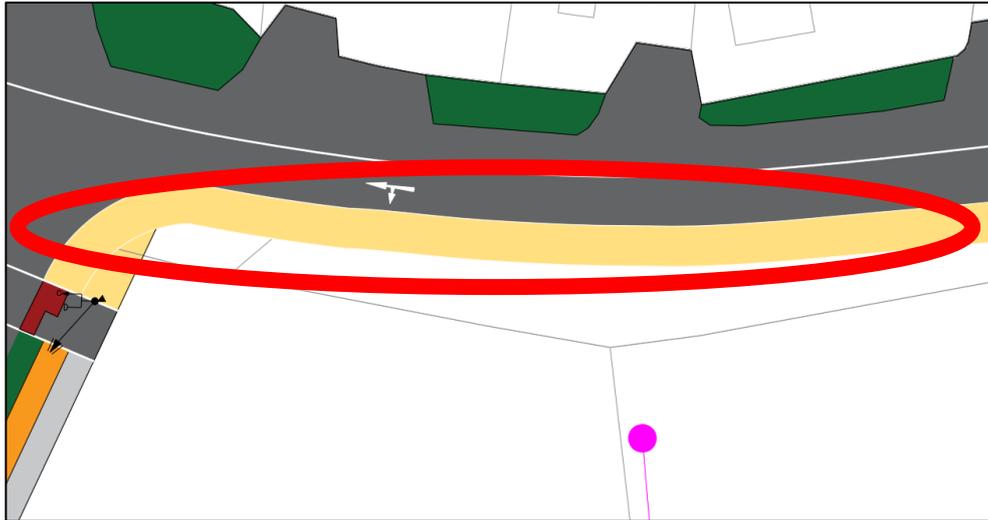


Figure 2.4 Eastern Approach shared surface width

Recommendation 4

The shared surface width should be altered to reflect the proposed Council Scheme.

2.5 PROBLEM: TRAFFIC SIGNAL POLE IN CYCLEWAY

Traffic signal poles are shown located between the footpath and the cycle lane within the travelled area. This could lead to incidents for the visually impaired and cyclists.

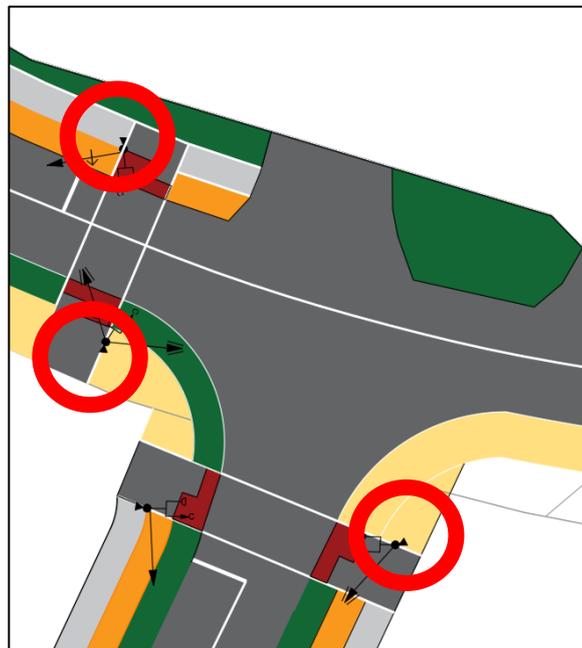


Figure 2.5 Traffic signals in the middle of the cycleway

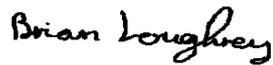
Recommendation 5

The designers should consider relocating the traffic signals to areas which do not obstruct any road users.

3. AUDIT TEAM STATEMENT

We certify that we have examined the drawings and documents listed in the Appendix to this Report. The examination has been carried out with the sole purpose of identifying any features of the design that could be removed or modified in order to improve the safety of the scheme. The problems identified have been noted in this report, together with associated safety improvement suggestions, which we recommend should be studied for implementation. The Auditors have not been involved with the scheme design.

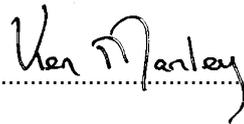
Mr Brian Loughrey, BEng MIEI



Signed:

Date: 19/06/2024

Mr Ken Manley BE CEng MIEI



Signed:

Date: 19/06/2024

Appendix A – RSA Collision Statistics

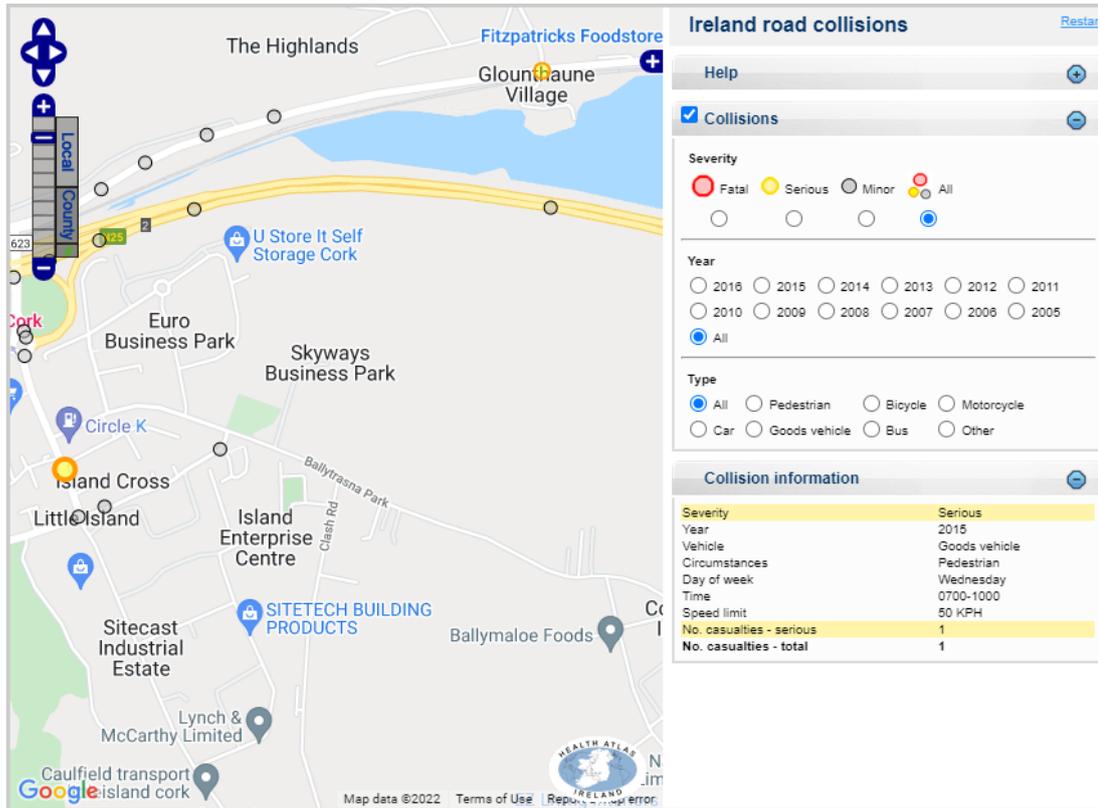


Fig 1 RSA Collision Statistics for Site Location

Appendix B – Drawings & Documents Submitted for Information

Drawings AND DOCUMENTS submitted for information

DRAWINGS BY: BG Architecture			
Ref.	Date	Drawing Title	Scale
Layout Drawings			
210989-PL-003	25.10.21	Site Layout Plan	1:500@A0

Appendix C– RSA Feedback Form

Road Safety Audit Feedback Form

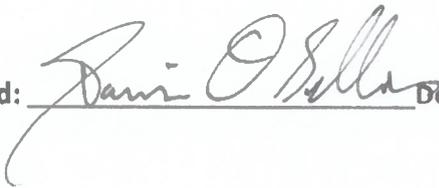
Scheme: Courtstown Housing Development, Little Island, Co. Cork

Audit Stage: 1

Date Audit Completed: 24/03/2022

Paragraph No. in Safety Audit Report	To be completed by the Designer			To be Completed by Audit Team Leader
	Problem accepted (yes/no)	Recommended measure accepted (yes/no)	Describe alternative measure(s). Give reasons for not accepting recommended measure. Only complete if recommended measure is not accepted	Alternative measures or reasons accepted by auditors (yes/no)
2.1	YES	YES		
2.2	YES	YES		
2.3	YES	YES		
2.4	YES	YES		
2.5	YES	YES		

Signatures:

Signed:  Designer

Date 19.06.24

Signed: Brian Loughrey Audit Team Leader

Date 19.06.2024

Signed:  Employer

Date 20th June 2024