

Title: STAGE 1 ROAD SAFETY AUDIT

For;

**Proposed Residential Development, Churchfields,
Mullhuddart.**

Client: Waterman Moylan Consulting Engineers.

Date: May 2023

Report reference: 1833R01

VERSION: FINAL (19-5-2023)

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1.0 Introduction

This report was prepared in response to a request from Mr. Noel Mahon, Waterman Moylan Consulting Engineers, for a Stage 1 Road Safety Audit of the proposed residential development at Church Fields, Mulhuddart on behalf of Fingal County Council.

The Road Safety Audit Team comprised of;

Team Leader: **Norman Bruton**, BE CEng FIEI, Cert Comp RSA.

TII Auditor Approval no. NB 168446

Team Member: **Owen O'Reilly**, B.SC. Eng Dip Struct. Eng NCEA Civil Dip Civil. Eng CEng MIEI

TII Auditor Approval no. OO 1291756

The Road Safety Audit comprised an examination of the drawings provided and a site visit on the 9th of May 2023.

The weather at the time of the daytime site visit was dry and the road surface was also dry.

This Stage 1 Road Safety Audit has been carried out in accordance with the requirements of TII Publication Number GE-STY-01024, dated December 2017.

The scheme has been examined and this report compiled in respect of the consideration of those matters that have an adverse effect on road safety. It has not been examined or verified for compliance with any other standards or criteria.

The problems identified in this report are considered to require action in order to improve the safety of the scheme for road users.

If any of the recommendations within this safety audit report are not accepted, a written response is required, stating reasons for non-acceptance. Comments made within the report under the heading of Observation are intended to be for information only. Written responses to Observations are not required.

A location map showing where each problem occurs is provided in **Appendix A**.

A list of the documents provided to the Audit Team is provided in **Appendix B**.

The feedback form is provided in **Appendix C**.

2.0 Background

Fingal County Council proposed to construct a residential development at Church Lands in Mulhuddart. This road safety audit is for the internal streets, footpaths and cycle facilities for the proposed development. The external works are being carried out as part of a separate contract.

The site is located between Damastown Avenue and Church Road in Mullhuddart.

Vehicular access would be from a previous planned residential area which has yet to be constructed. Several pedestrian and cyclist linkages are proposed to the external road network.

The speed limit within the development will be 30km/hr.

The site location is shown below.



STAGE 1 RSA – CHURCH FIELDS
WM

3.0 Issues Raised in This Road Safety Audit.

3.1 Problem

LOCATION

Drawing 20-074 P4115 Rev -, Visibility Splays.

PROBLEM

The 23m visibility splay at the north side connection point crosses through car parking spaces. This could lead to a lack of visibility to oncoming traffic resulting in side-impact or rear-end collisions.



RECOMMENDATION

It is recommended that the car parking spaces be relocated outside the visibility envelope.

3.2 Problem

LOCATION

Drawing 20-074 P4111 Rev -, Refuse Vehicle swept path.

PROBLEM

The refuse truck will have to carry out a number of movements to turn in the southern end hammer head. Drivers may opt to reverse down the road instead thereby increasing the risk of colliding with vulnerable road users or street furniture.

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WM*RECOMMENDATION*

It is recommended that the turning head be increased in size so that the refuse truck can easily turn and that this option is more attractive for drivers.

3.3 Problem

LOCATION

Throughout the scheme, electric vehicle charging.

PROBLEM

At many locations parking spaces are remote from the residential units and if electric vehicles are being charged cables may cross the footpaths leading to trip hazards.

RECOMMENDATION

It is recommended that charging sockets be provided in the charging spaces or at the front of footpaths where cables will not be hazards. The EV charging spaces should be suitable sized to accommodate side entry charging and the keep cables from entering adjacent spaces.

3.4 Problem

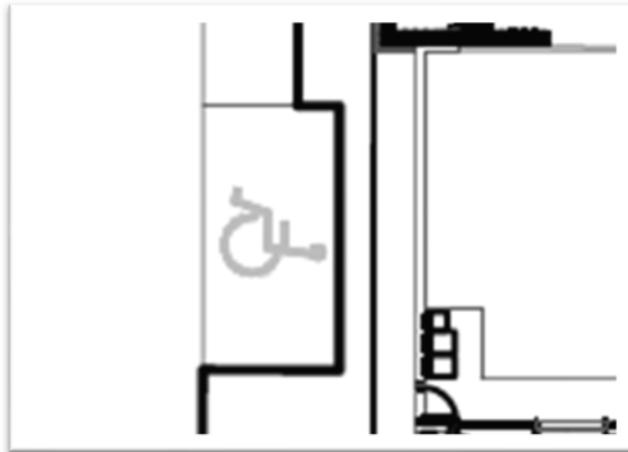
LOCATION

Adjacent to the pond, disabled car parking space.

PROBLEM

The presence of the disabled parking space leads to a very narrow footpath. This could result in inaccessibility for mobility impaired pedestrians and lack of a suitably wide access area for wheelchair users.

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WM



RECOMMENDATION

It is recommended that the footpath be widened locally at the disabled parking bay and that a dropped kerb be provided to the footpath to provide access from the bay.

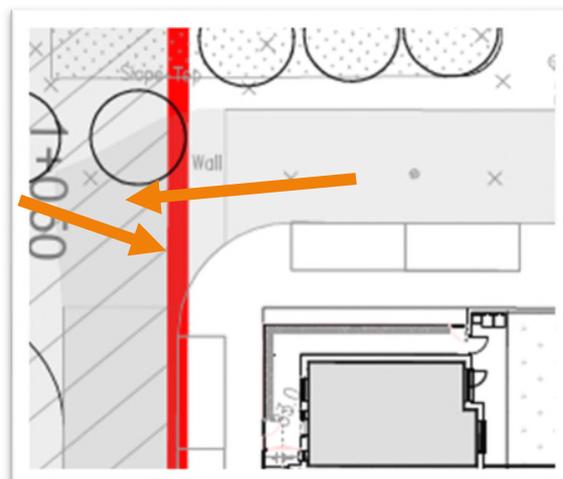
3.5 Problem

LOCATION

Drawing 20-074 P4115 Rev -, northern vehicular access.

PROBLEM

Drivers may be confused over priority at the northern vehicular access due to the horizontal alignment at the junction. A lack of stopping sight distance on the through route and visibility from the sideroad could lead to collisions.



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RECOMMENDATION

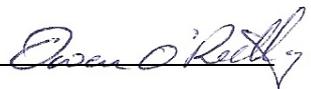
It is recommended that the priority be established and that suitable visibility be provided. Stop control should be provided on the minor arm during the detailed design stage.

4.0 Audit Statement

We certify that we have examined the site on the material provided. The examination has been carried out with the sole purpose of identifying any aspects of the design which could be added, 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 would recommend should be studied for implementation. The audit has been carried out by the persons named below who have not been involved in any design work on this scheme as a member of the Design Team.

Norman Bruton Signed: 
(Audit Team Leader) Dated: 19-5-2023

Owen O'Reilly Signed: 
(Audit Team Member) Dated: 19-5-2023

Appendix A – Problem Location Map



Appendix B

Information Supplied to the Audit Team

- Drawing 2009_P-003-P006 Site Plans
- Drawing 20-074-P4100
- Drawing 20-074-P4101
- Drawing 20-074-P4110
- Drawing 20-074-P4111
- Drawing 20-074-P4115
- Drawing 20-074-P4200
- Drawing 20-074-P4201

Appendix C

Feedback Form

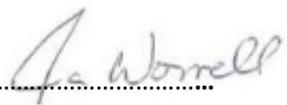
SAFETY AUDIT FORM – FEEDBACK ON AUDIT REPORT

Scheme: Church Fields, Mulhuddart

Stage: 1 Road Safety Audit

Date Audit (Site visit) Completed: 9-5-2023

Paragraph No. in Safety Audit Report	Problem accepted (yes/no)	Recommended measure accepted (yes/no)	Alternative measures (describe)	Alternative measures accepted by Auditors (Yes/No)
3.1	Yes	Yes	The parking will be moved outside of the visibility splay at the detailed design stage.	Yes
3.2	Yes	Yes	The turning head has been updated, and the parking layout reconfigured to allow for a fire tender/refuse truck to perform a clear 3-point turn.	Yes
3.3	Yes	Yes	Noted, however, the parking will not be in private ownership. It is proposed to have onsite electric charging facilities located in the public realm around the site. This will be in line with the Energy Statement report provided as part of this planning application.	Yes
3.4	Yes	Yes	The footpath will be widened to allow for suitable access.	Yes
3.5	Yes	Yes	Noted. road markings and a stop sign will be added to ensure that the priority road is identified.	Yes

Signed.....
Design Team Leader

Date 18/05/23

Signed...
Audit Team Leader

Date: ...19-5-2023...

Signed.....
Developer/Employer

Date: 19/05/23