

# **Residential Development at Gortnahomna, Castlemartyr**

Stage 1 Road Safety Audit

Marshall Yards Development Company Ltd.

October 2024

# Residential Development at Gortnahomna, Castlemartyr

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October 2024

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**Document History**

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# 1. Introduction

## 1.1 Report Context – Audit Limited to Road Markings

This report describes the findings of a Stage 1 Road Safety Audit associated with the Residential Development at Gortnahomna, Castlemartyr scheme. The Audit has been confined to consider only road markings.

The Audit has been completed by Traffico Ltd. on behalf of Marshall Yards Development Company Ltd..

## 1.2 Details of Site Inspection

Date	Daylight / Darkness	Weather & Road Conditions
Thursday 18 <sup>th</sup> July 2024	Daylight	Showers with damp roads.

Table 1.1 – Site Inspection Details

## 1.3 The Road Safety Audit Team

The members of the Road Safety Audit Team have been listed following:

Status	Name / Qualifications	TII Auditor Reference No:
Audit Team Leader (ATL)	<b>Martin Deegan</b> BEng(Hons) MSc CEng MIEI	MD101312
Audit Team Member (ATM)	<b>Adrian O'Neill</b> BEng MSc CEng RSA Cert	AO1356497

Table 1.2 – Audit Team Details

## 1.4 Drawings Examined as Part of the Audit Process

The following drawings were examined as part of the Road Safety Audit (RSA) process:

Drawing No.	Title	Revision
2411-DOB-XX-SI-DR-C-0500	Proposed Site Layout Plan	S2 P05
2411-DOB-XX-SI-DR-C-0550	PR. Works on N25 and Development Entrance	S2 P02
2411-DOB-XX-SI-DR-C-0800	Proposed Autotracks Layout Sheet 1 of 3	S2 P01
2411-DOB-XX-SI-DR-C-0801	Proposed Autotracks Layout Sheet 2 of 3	S2 P01
2411-DOB-XX-SI-DR-C-0802	Proposed Autotracks Layout Sheet 3 of 3	S2 P01
230069/P/003	Proposed Site Plan	P1
CO2041-BSLA-Draft Landscape Plan	Draft Landscape Plan	T0

Table 1.3 – Designers Drawing List

## 1.5 Road Safety Audit Compliance

### **Procedure and Scope**

This Road Safety Audit has been carried out in accordance with the procedures and scope set out in TII publication number GE-STY-01024 - Road Safety Audit.

As part of the road safety audit process, the Audit Team have examined only those issues within the design which relate directly to road safety.

### **Compliance with Design Standards**

The road safety audit process is not a design check, therefore verification or compliance with design standards has not formed part of the audit process.

### **Minimizing Risk of Collision Occurrence**

All problems described in this report are considered by the Audit Team to require action in order to improve the safety of the scheme and minimise the risk of collision occurrence.



## 2. Road Safety Issues Identified

### 2.1 Problem: Up-Hill Gradient at Connection to N25

**Location:** Main Site Access Road Connection to N25

The unusually steep uphill gradient could lead to vehicles either rolling back or stalling as they attempt to join the N25. This is likely to increase the risk of a collision at the site access.

Figure 2.1 – Steep Approach to N25 Could Lead to Vehicle Stalls



#### Recommendation

A suitable dwell area (i.e. a short section of road in advance of the stop line where the gradient has been reduced) should be provided on approach to the pedestrian crossing and connection point to the N25.

### 2.2 Problem: Abrupt Horizontal Turns Leading to Conflicts

**Location:** Various Horizontal Changes in Direction on Internal Streets

The abrupt (low radius and sharp) changes in direction could lead to opposition type vehicle conflicts or drivers mounting kerbs.

Figure 2.2 – Locations Where Abrupt Turns Could Lead to Driver Conflicts



#### Recommendation

The abrupt turns should be replaced with more suitable (larger and smooth) horizontal curves.

## 2.3 Problem: Treatment of Homezone Entry Points

**Location:** All Homezone Gateway Entry Points

It may not be readily apparent to drivers entering Homezone streets that they will be required to give way to pedestrians (including children at play), who will be sharing the road space with them. This is likely to increase the risk of conflict between vehicles and vulnerable road users in Homezone streets.

**Figure 2.3 – Streets Where Vehicles Will Share Space with Vulnerable Road Users**



### Recommendation

Appropriate measures should be prescribed to make it abundantly clear to drivers that they are entering a Homezone environment. Such measures might include a pedestrian refuge zone, a change in surface treatment colour, in-lane Homezone roundels and / or Homezone gateway signage which could be installed at entry points.

## 3. Audit Team Statement

### 3.1 Certification & Purpose

We certify that we have examined the drawing(s) listed in Chapter 1 of this Report.

#### **Sole Purpose of the Road Safety Audit**

The Road Safety Audit has been carried out with the sole purpose of identifying any features of the design which could be removed or modified to improve the road safety aspects of the scheme.

### 3.2 Implementation of RSA Recommendations

The problems identified herein have been noted in the Report together with their associated recommendations for road safety improvements.

We (the Audit Team) propose that these recommendations should be studied with a view to implementation.

#### **Audit Team's Independence to the Design Process**

No member of the Audit Team has been otherwise involved with the design of the measures audited.

### 3.3 Road Safety Audit Team Sign-Off

#### **Martin Deegan**

Audit Team Leader  
Road Safety Engineering Team

traffico

Signed:



Date: 22<sup>nd</sup> August 2024

#### **Adrian O'Neill**

Audit Team Member  
Road Safety Engineering Team

traffico

Signed:



Date: 22<sup>nd</sup> August 2024



## 4. Designers Response

### 4.1 How the Designer Should Respond to the Road Safety Audit

The Designer should prepare an Audit Response for each of the recommendations using the Road Safety Audit Feedback Form attached in Appendix A.

When completed, this form should be signed by the Designer and returned to the Audit Team for consideration. See flow-chart following for further description.



Figure 4.1 – Road Safety Audit Sign-Off and Completion Process

### 4.2 Returning the Completed Feedback Form

The Designer should return the completed Road Safety Audit Feedback Form attached in Appendix A of this report to the following email address:

- Email address: [martin@traffico.ie](mailto:martin@traffico.ie)

The Audit Team will consider the Designer's response and reply indicating acceptance or otherwise of the Designers response to each recommendation.

#### Triggering the Need for an Exception Report

Where the Designer and the Audit Team cannot agree on an appropriate means of addressing an underlying safety issue identified as part of the audit process, an Exception Report must be prepared by the Designer on each disputed item listed in the audit report.

## Appendix A

### A.1 Road Safety Audit Feedback Form

# Road Safety Audit Feedback Form

**Scheme:** Residential Development at Gortnahomna, Castlemartyr

**Audit Stage:** Stage 1 Road Safety Audit

**Audit Date:** 22<sup>nd</sup> August 2024

Problem Reference (Section 2)	Designer Response Section			Audit Team Response Section
	Problem Accepted ( yes / no )	Recommended Measure Accepted ( yes / no )	Alternative Measures or Comments	Alternative Measures Accepted ( yes / no )
2.1	Yes	Yes	A gradient of 1:75 has been applied to the entrance. The existing site levels will be raised to facilitate this.	Comment noted & accepted.
2.2	Yes	Yes	Larger corner radii have been applied to the horizontal deflections and junction	Comment noted & accepted.
2.3	Yes	Yes	A change in surface material and a pedestrian refuge is proposed. Additional slow zone signs have been added to the home zone entrances.	Comment noted & accepted.

*\*The Designer should complete the Designer Response Section above, then fill out the designer details below and return the completed form to the Road Safety Audit Team for consideration and signing.*

Designer's  
Name:

Alan Lambe

Designer's  
Signature:



Date: 18.10.2024

Audit  
Team's  
Name:

Martin Deegan

Audit  
Team's  
Signature:

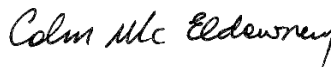


Date: 18<sup>th</sup> Oct. 2024

Employer's  
Name:

Colm McEldowney

Employer's  
Signature:



Date: 18.10.2024



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