



Road Safety Audit Stage 1

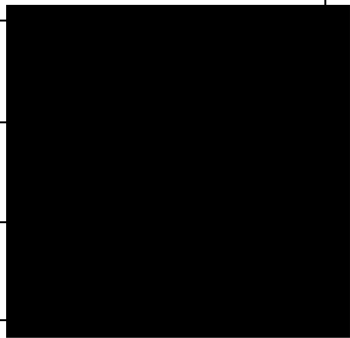
**Burndell Road, Yapton – Access to
Development**

Client: Bright Plan

Road Safety Answers reference no: RSA249

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Control Sheet

	Name	Date	Signature
Author	Paul Martin	03/06/2020	
Checker	David Dodd	03/06/2020	
Authoriser	Paul Martin	04/06/2020	

Report Version

RSA Report Ref.	Version	Date of Issue
RSA249	Final	04/06/2020

1. Introduction

1.1 This report describes a Stage 1 Road Safety Audit carried out on the preliminary design for an access to a residential development off Burndell Road, Yapton, for Bright Plan at the request of West Sussex County Council. The audit was carried out in the office of Road Safety Answers Ltd during June 2020.

1.2 The audit team members were as follows:

Team Leader

Paul Martin - BSc (Hons), CEng, FCIHT, FSoRSA, IEng, MICE
HE Approved RSA Certificate of Competency (2013)
Director, Road Safety Answers Ltd

Team Member

David Dodd – BSc(Hons), DipNEBOSH, FIHE, IEng. MCIHT, MSoRSA
Independent Highway and Road Safety Consultant

1.3 The audit comprised an examination of the documents listed in **Appendix A**, and included the drawings supplied by Alex Budd of Bright Plan. The site was visited by the Audit Team, together, on 3rd June 2020 between 10.50 and 11.10 hours. The weather was cloudy with occasional light rain and the road surface was slightly damp. Traffic flows were light to moderate, possibly because of the COVID-19 government restrictions. Pedestrian and cycle flows were light.

1.4 The terms of reference of the audit are as described in the UK's national standard for road safety audit, GG 119. The team has 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 to any other criteria.

1.5 All the problems described in this report are considered by the audit team to require action to improve the safety of the scheme and minimise accident occurrence. A plan showing the locations of the problems is shown in **Appendix B**.

1.6 The purpose of the scheme is to provide an access off Burndell Road to serve a residential development.

1.7 The scheme consists the following elements:

- A simple priority junction onto Burndell Road, just south-east of its south-eastern junction with Drake Grove, with 8m radii, connecting to

- a 4.8m wide access road with a 1.5m wide footway on its south-eastern side;
 - Visibility splays at the priority junction of 2.4m x 43m in each direction on Burndell Road;
 - An uncontrolled pedestrian crossing of Burndell Road, to the south-east of the priority junction, at the tangent point of the south-eastern shoulder of the junction on Burndell Road, with dropped kerbs and tactile paving;
 - A 175m long access road, predominantly of width 4.8m, with two priority working traffic calming features, each narrowing the carriageway to a width of 3m
 - The western-most narrowing stretching 20m along the access road, the adjacent footway narrowing to 1m over this distance;
 - The footway changing from the south side to the north side of the access road, between the two priority working features;
 - Each priority working feature to have appropriate give way markings.
- 1.8 No details of street lighting, surface water drainage or advanced signing have been provided. These issues are not, therefore, considered further in this report, unless these existing facilities are likely to engender a safety problem with the new proposals.
- 1.9 The auditors are not aware of any previous road safety audits on these, or similar, proposals.

2. Items resulting from this Stage 1 Audit

2.1 PROBLEM

Locations: A – Priority working features on the access road
(Dwg. 2020-6145-004 Rev. A)

Summary: Risk of damage to kerb edges, increasing the risk of two-wheelers loss of control collisions.

The swept path drawing shows no margin for error as an estate car passes the kerb buildouts. Damage to the kerbs on each side of the carriageway, with resulting detritus on the carriageway, increases the risk of two-wheelers loss of control collisions.

RECOMMENDATION

The width of carriageway passing each build-out should be increased to no more than 3.5m.

Design Team Response:

Client Officer Response:

2.2 PROBLEM

Location: B – Priority working features on the access road
(Dwg. 2020-6145-004 Rev. A)

Summary: Risk of damage to tyres, increasing the risk of high speed loss of control collisions elsewhere.

The 45° external corners of the buildouts are sharp, increasing the risk of damage to tyres if scraped by the vehicle as it passes. This increases the risk of high speed loss of control collisions elsewhere if a tyre bursts due to side-wall damage.

RECOMMENDATION

The external corners of the build-outs should incorporate a radius kerb as the transition between straight kerbs.

Design Team Response:

Client Officer Response:

3. Audit Team Statement

We certify that this road safety audit has been carried out in accordance with GG 119.

Audit Team Leader

Paul Martin - BSc (Hons), CEng, FCIHT, FSoRSA, IEng, MICE
HE Approved RSA Certificate of Competency
Director, Road Safety Answers Ltd

Signed

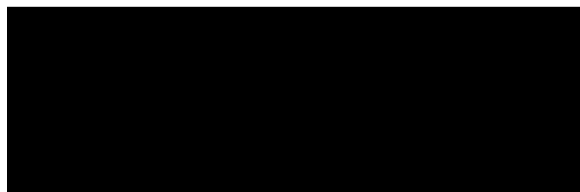


Date 04/06/2020

Audit Team Member

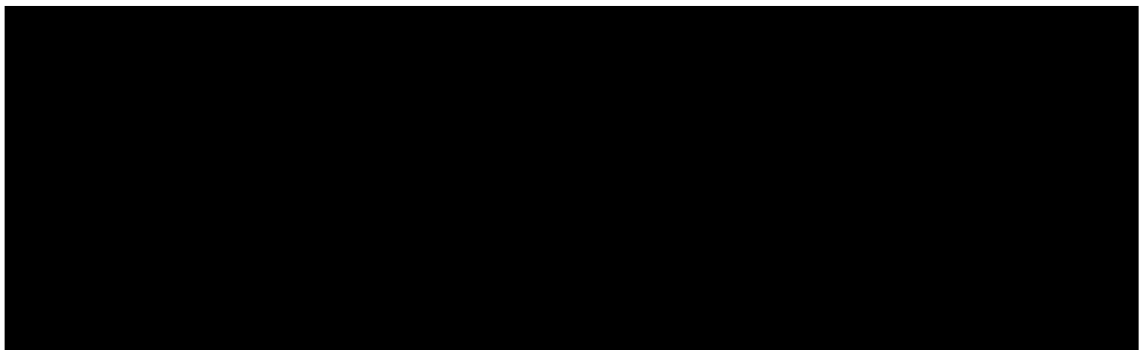
David Dodd – BSc(Hons), DipNEBOSH, FIHE, IEng. MCIHT, MSoRSA
Independent Highway and Road Safety Consultant

Signed



Date

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4. Design Team and Client Organisation Statements

Design Team Leader

I certify that I have reviewed the items raised in this Stage 1 Safety Audit report. I have given due consideration to each issue raised and have stated my proposed course of action for each in this report. I seek the Client Organisation's endorsement of my proposals.

Name:

Organisation:

Signed:

Date:

Client Organisation Project Manager

I certify that I have reviewed the comments and actions proposed by the Design Team Leader and, in this report, I have stated my agreement, or alternative proposal, or acceptance of the risk associated with the problem.

Name:

Organisation:

Signed:

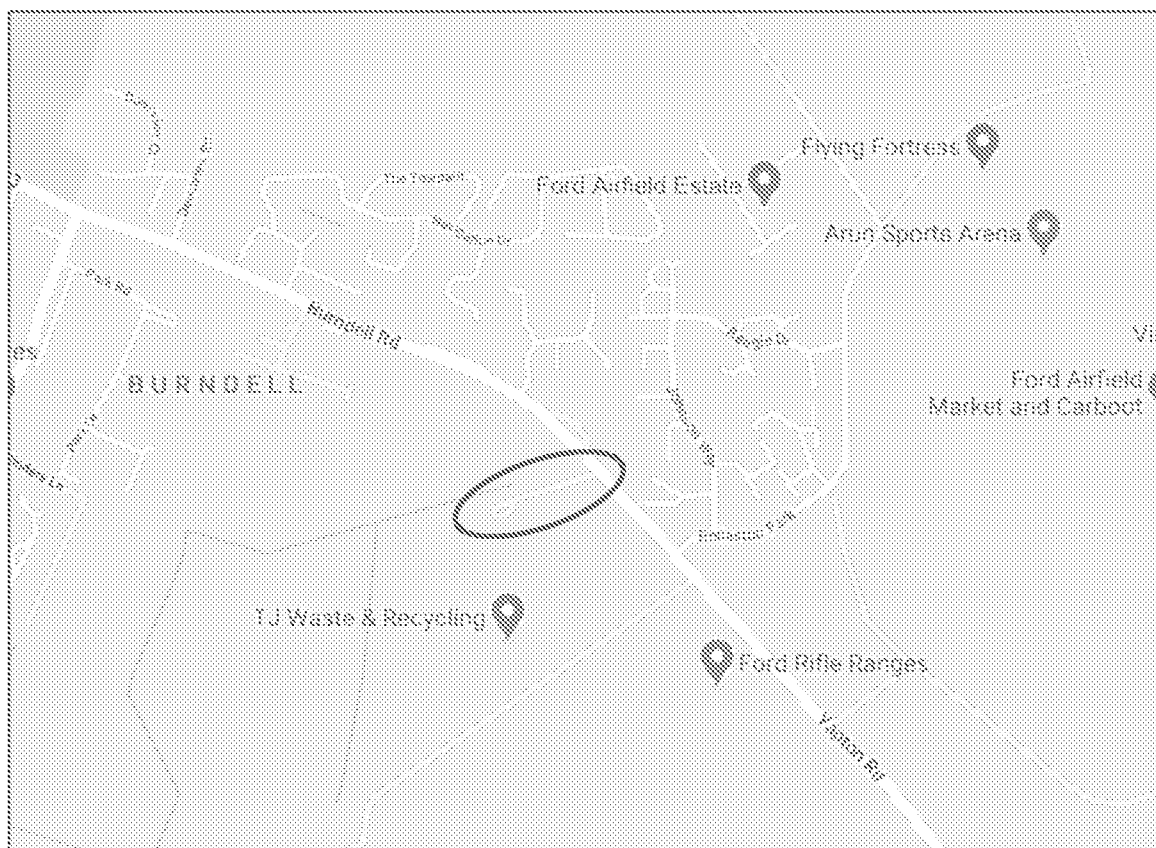
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Appendix A

Drawings and Documents Examined:

2020-6145-001 Rev D.pdf
2020-6145-002 Rev G.pdf
2020-6145-003 Rev A.pdf
2020-6145-004 Rev A.pdf

The following plan shows the location of the scheme



Scheme: Burdell Road, Yapton

Client: Bright Plan (Highway Authority: West Sussex County Council)

Problems Location Plan

