



Road Safety Audits

Cumberworth Lane, Denby Dale

Road Safety Audit

Stage 1

July 2020

Project No: 1242

Designer Response

Author: A Cockayne

Designers Response: Paul Howarth

Quality Management

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Revision	0 – Issued July 2020
Remarks Designers Response: 30.7.2020 Paul Howarth MCIHT MIHE	Signed: 

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1. Introduction

1.1. Request for Road Safety Audit

1.1.1. AC Road Safety Audits have been asked on behalf of Paragon Highways to carry out a Stage 1 Road Safety Audit on the proposed development and associated highway works on Cumberworth Lane, Denby Dale.

1.1.2. The overseeing Local Authority for the scheme is Kirklees Metropolitan Council.

1.1.3. The Audit Team comprised:

Alison Cockayne

[Audit Team Leader for this Audit]

MIHE, BSc (Hons) Civil Engineering

Principal Road Safety Engineer

HE Cert. Comp

Kevin P Moran

[Audit Team Member for this Audit]

Senior Engineer

1.1.4. This Audit was undertaken mainly in accordance with GG119 'Road Safety Audit', which forms part of Volume 5 of the Design Manual for Roads and Bridges (formerly HD19/15). It comprised an examination of the drawings and documents as provided with the audit brief; details of which are listed at **Appendix A**.

1.1.5. Alison Cockayne holds a Road Safety Certificate of Competency meeting the requirements of the European Directive 2008/96 EC and GG119.

1.1.6. The Audit Team has examined and reported only on the road safety implications for the scheme as presented and has not examined or verified the compliance of the designs to any other standards or criteria. The comments and suggestions for road safety improvements made in this report are aimed to address matters that might have an adverse effect on road safety in the context of the chosen design. To clearly explain a safety problem or recommendation to resolve a problem, the Audit Team may refer to a Design Standard.

1.1.7. A site visit was carried out on Wednesday 15th July at 15:00 hrs. The weather conditions were fine and the road surface was dry. Visibility was good. Vehicle volumes were moderate and pedestrian volumes were low.

1.1.8. Any safety related issues resulting from the Stage 1 Road Safety Audit identified on the scheme are reported in **Section 3**. Problem locations have been marked on the Problem Location plan given at **Appendix B** or as listed on drawings accompanying each individual identified problem.

- 1.1.9. Where the Audit Team has identified potential existing road safety design problems within this area, that fall outside the scope of the audit brief, these matters are reported under **Section 4** of this report. The Design Organisation and Contracting Authority should give due regard to the matters raised.

1.2. Scheme Description

- 1.2.1. The scheme is a small residential development off Cumberworth Lane at Denby Dale comprising 10 dwellings with parking and an access road with turning head.

1.3. Description of Locality

1.3.1. General Description

The area is semi-rural in a village located south-east of Huddersfield. There are fields to the north and residential properties on all other sides of the site. There is a church opposite the proposed access road and bus stops on either side of Cumberworth Lane in the vicinity.

1.4. Supporting Information

- 1.4.1. No additional information was supplied to assist this audit.
- 1.4.2. The number of collisions has been checked using Crash-Map and there have not been any within the last five years on Cumberworth Lane in the vicinity of the proposed development.

1.5. Departures from Standard

- 1.5.1. The Audit Team are not aware of any departures from standard.

Figure 1 indicates the extents of the scheme considered under this Stage 1 Road Safety Audit in accordance with the Audit Brief.



2. Matters Raised at Previous Road Safety Audits

2.1. Previous Audits

- 2.1.1. The Audit Team are not aware of any previous Road Safety Audits that have been carried out on this scheme.

3. Items identified at this Stage 1 Road Safety Audit

3.1.1 PROBLEM 1

Location: New access road / Cumberworth Lane

Summary: Risk of flooding / standing water resulting in vehicles losing control.

Detail: There are no details of any drainage provision along the site frontage or within the new access road. The drawings do not show any drainage detail or proposed gullies along the site frontage at the new junction with Cumberworth Lane or along the new access road. Failure to adequately drain the area, particularly at the new junction could lead to loss of control collisions due to skidding or failure to give way, especially during icy conditions in the winter months. Furthermore, standing water can lead to premature carriageway deterioration resulting in potholes. There is an existing gully on the south-east side of Cumberworth Lane below the proposed access road but this may not be in the most suitable position.

Recommendation: Ensure there is adequate drainage especially at the junction and at any low spots within the new highway.

Design Team Response (1): Accepted – A drainage scheme will be designed by a competent Drainage Engineer to a standard to be agreed with the LPA.

Road Safety Audit Team Response (1):

3.1.2 PROBLEM 2

Location: Cumberworth Lane at junction with new access road.

Summary: Risk of collisions due to position of existing bus stop and inadequate sightlines.

Detail: The proposals do not indicate what sightlines will be achieved at the new junction with Cumberworth Lane. It seems that they will be adequate however there is a bus stop and clearway on the south-east side of the new access road. Although this is existing, there will be more traffic using the access and the sightlines will be blocked when a bus is waiting.



Photo 1 – Cumberworth Lane – looking north-west



Photo 2 – Cumberworth Lane – looking south-east

Recommendation: Ensure that adequate sightlines can be achieved and that the existing bus stop and clearway do not create a problem for vehicles exiting the new development.

Design Team Response (1): The proposed sight lines have been added the latest submission as shown in Appendix C.

Road Safety Audit Team Response (1):

3.1.3 PROBLEM 3

Location: New access road and at junction with Cumberworth Lane

Summary: Risk of pedestrian collisions and trips or falls due to lack of pedestrian facilities.

Detail: A footway is shown on the north side of the new access road but there are no dropped crossings across the junction with Cumberworth Lane or where the footway ends. There also seems to be a ramp at the point where pedestrians are expected to step into the road which could create an uneven platform and result in pedestrians tripping or falling.

Recommendation: Provide dropped crossings at suitable locations where pedestrians are expected to cross or step into the road and ensure that the proposed ramp does not create a trip hazard.

Design Team Response (1): Accepted – pedestrian dropped crossing facilities will be provided.

Road Safety Audit Team Response (1):

3.1.4 PROBLEM 4

Location: New access road

Summary: Risk of vehicle / pedestrian collisions due to lack of adequate lighting.

Detail: The drawings do not show any lighting detail and although there is street lighting along Cumberworth Lane it may not be in the correct location especially in the vicinity of the new junction. A lack of lighting could lead to vehicle collisions and / or collisions with pedestrians. There is also the risk of pedestrians tripping and falling if they are unable to see any street furniture.

Recommendation: Provide adequate street lighting to current guidelines at the new junction and along the access road.

Design Team Response (1): Accepted: The street lighting design will be carried out by the Local Authority or a competent street lighting designer.

Road Safety Audit Team Response (1):

3.1.5 PROBLEM 5

Location: New access road at junction with Cumberworth Lane

Summary: Risk of vehicle collisions due to lack of clarity at junction.

Detail: The drawings do not indicate what type of junction is proposed and whether vehicles are required to give way. Although the existing access is unmarked there will be more traffic using it. There is no lining shown so vehicles may overshoot the junction and collide with traffic on the main road especially during darkness.

Recommendation: Provide suitable junction markings to indicate the edge of carriageway as a minimum or give way markings if deemed necessary.

Design Team Response (1): Accepted Give Way markings will be provided.

Road Safety Audit Team Response (1):

Designers Response:

Paul Howarth

Paragon Highways

Unit 6

The Office Campus

Paragon Business Park

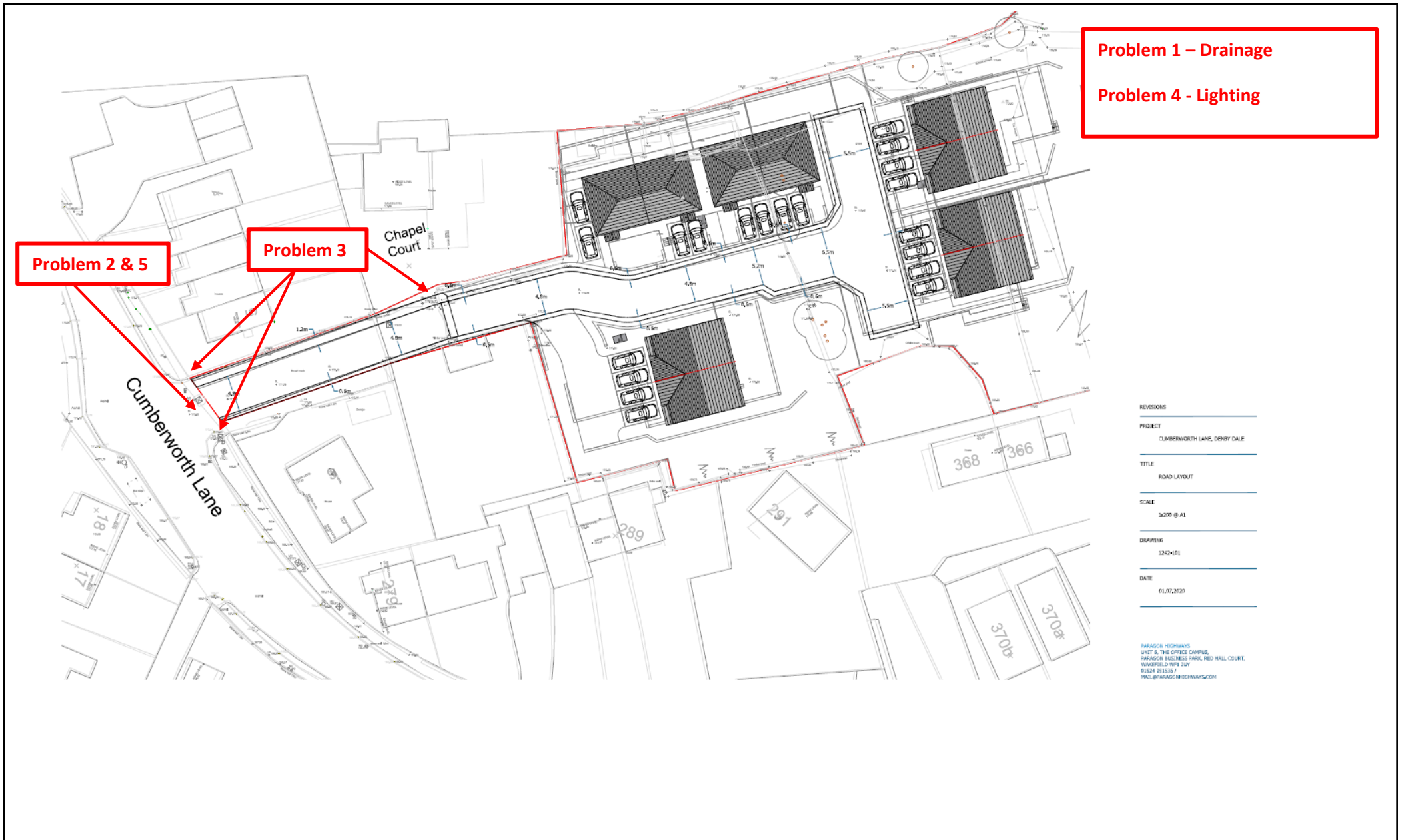
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01924 291536

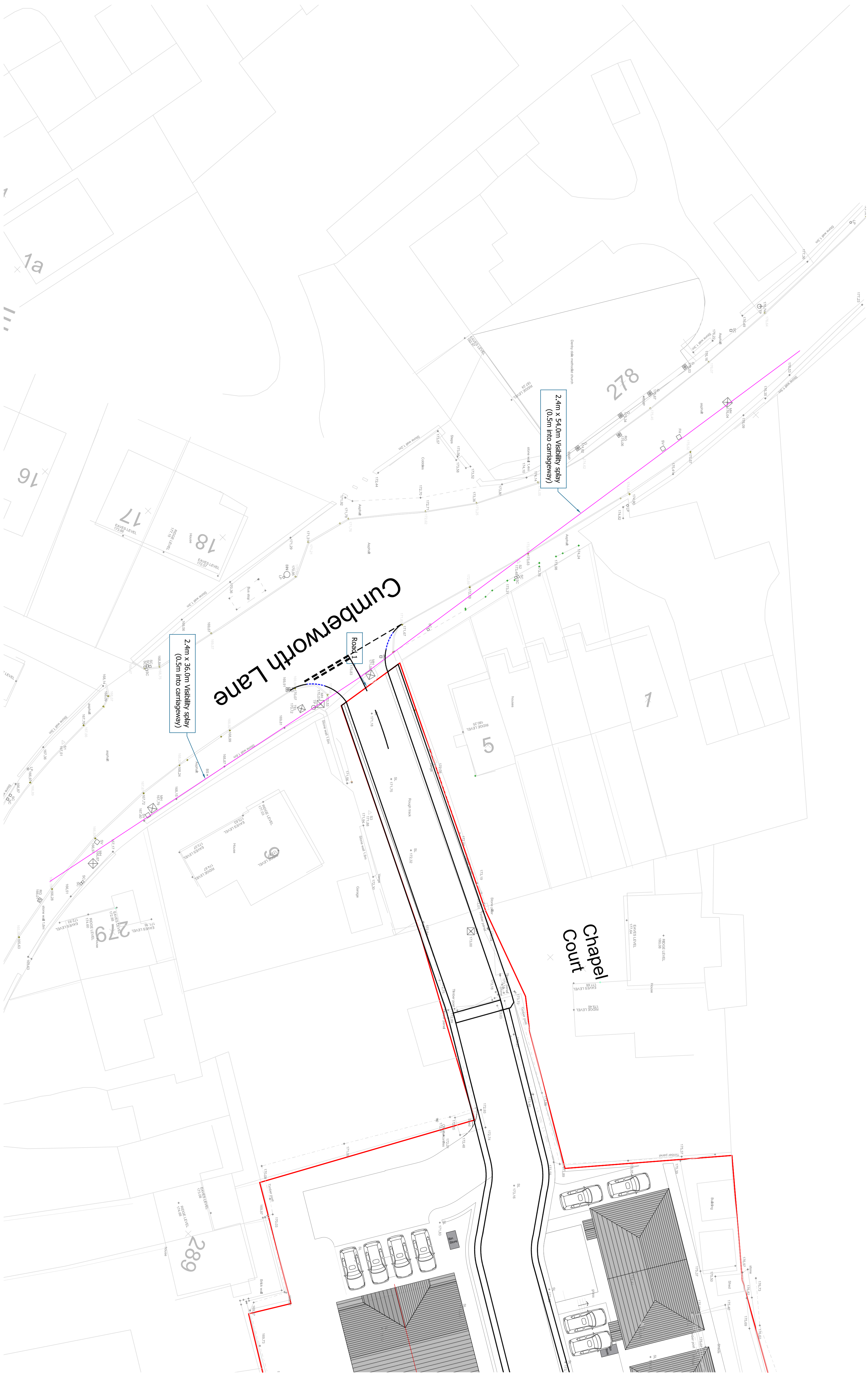
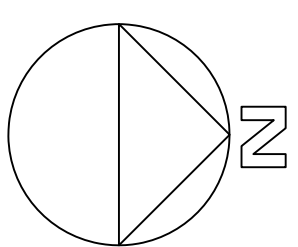
APPENDIX A – LIST OF DOCUMENTS PROVIDED

Drawing Number	Revision	Title
1242-101		Cumberworth Lane, Denby Dale Road Layout
1242-102		Cumberworth Lane, Denby Dale Road 1 - Long Section
1242-103		Cumberworth Lane, Denby Dale Road 2 - Long Section
1242-104		Cumberworth Lane, Denby Dale Vehicle Tracking

APPENDIX B – PROBLEM LOCATION PLAN



Appendix C – Visibility Splays



GENERAL NOTES
This drawing shows the provisional design only and is subject to Local Authority approval. This drawing should not be scaled for setting out purposes unless specified.
This drawing is based on a topographical/ornance survey provided by others.

A	30.07.2020
AMENDED FOLLOWING RSA	
PROJECT	
CUMBERWORTH LANE, DENBY DALE	
TITLE	
VISIBILITY SPLAY	
SCALE	
1:200 @ A1	
DRAWING	
1242-105	
DATE	
30.07.2020	