

# 1 INTRODUCTION

## 1.1 Design Manual for Roads & Bridges – GG 119 Road Safety Audit

The Terms of Reference for the undertaking of Road Safety Audits are as described in the Highways England's Design Manual for Roads and Bridges (DMRB) document GG 119 - Road Safety Audit. This Standard sets out the procedures that are required to implement Road Safety Audits - defining the relevant schemes and stages in the design and construction process at which audits shall be undertaken. It is the Standard generally adopted by most Highway Authorities for highway improvement schemes.

# 2 DESIGN CONSIDERATIONS

## 2.1 Introduction

Firstly, it is important to reiterate that the Road Safety Audit process is to identify any aspects of the proposed scheme that may give rise to road safety concerns and, where possible, to suggest modifications that would improve the road safety of the resultant scheme. It is not for the purposes of technical audit. As such, it is the responsibility of the Design Organisation to ensure that the proposed scheme meets the relevant Design Standards.

The terms of reference of this Audit (Addendum Note) are as described in GG 119. The Audit 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 designs to any other criteria.

## 2.2 Design Changes

RPS has submitted an updated drawing (Drawing No. JNY10084-03 Rev C) which shows three revisions since the original road safety audit was undertaken.

Additional measures include the inclusion of a new pedestrian crossing facility to the west of the proposed layby with associated dropped kerbs and tactile paving, dropped kerbs and tactile paving across the proposed access road bellmouth and an increased access road width.

No Departures from Design Standards have been reported by the Design Organisation RPS.

# 3 PREVIOUS SAFETY AUDITS - TIMELINE

## 3.1 Stage 1 Road Safety Audit - September 2019

The safety aspects of the Proposed Site Access on land at St Stephens Fields, Horsted Keynes, West Sussex were the subject of comment in the September 2019 Stage 1 Road Safety Audit undertaken by Taylor Bowie Ltd.

A Designers Response to the September 2029 Stage 1 Road Safety Audit dated 22<sup>nd</sup> February 2021 has been supplied to the Audit Team.

## 4 ROAD SAFETY AUDIT ADDENDUM NOTE

### 4.1 Safety Implications of Proposed Design Changes

Taylor Bowie Ltd has been instructed to review Drawing No. JNY10084-03 Rev C – Proposed Site Access Visibility Splay with regard to the revised layout, which includes the amendments as discussed in Para 2.2.

The Stage 1 Road Safety Audit raised two problems:

<b>PROBLEM</b>	1
Location	The proposed development site access road to Hamsland (Drwg No. JNY10084-03)
Summary	There appears to be a pinch point along the development site access road for northwest bound traffic that may increase the risk of vehicle to vehicle head on type collisions.
The western kerb alignment along the development access road for traffic travelling towards Hamsland appears to include a pinch point. There may be an increased risk of vehicle to vehicle head on type collisions as vehicles negotiate the pinch point.	
<b>RECOMMENDATION</b>	
The Audit Team recommends that for the next stage of Audit vehicle tracking movements are carried out for large cars negotiating the pinch point so that opposing cars can safely travel through the pinch point without colliding with each other.	

**Designers Response:** The proposed access road will be 5.5m as it enters the site narrowing to 4.8m. The extent over which the access road is 5.5m has been extended to provide more room for vehicles as they enter the site. Swept path analysis has been carried out to demonstrate that two vehicles will be able to pass.

**Audit Team Review:** The revised proposals would remove this road safety concern.

<b>PROBLEM</b>	2
Location	Dropped crossing opposite proposed Development Site Access (Drwg No. JNY10084-03)
Summary	Removal of uncontrolled pedestrian crossing facility may force pedestrians to cross between parked vehicles with a risk of vehicle to pedestrian type collisions

The proposals show that the proposed layby opposite the proposed development access will effectively remove the existing uncontrolled pedestrian crossing. This may increase the risk of pedestrians crossing between parked vehicles where the pedestrian to driver inter visibility may be reduced and may lead to vehicle to pedestrian type collisions.

#### RECOMMENDATION

The Audit Team recommends that safe crossing points are provided to ensure the pedestrian to driver inter visibility is adequate for the traffic speeds along Hamsland.


**Designers Response:** The layout has been amended to include a dropped kerb new crossing point.

**Audit Team Review:** The revised proposals would remove this road safety concern.

## 5 Conclusion

The Audit Team are satisfied that, the revised drawing submitted as part of this addendum note, addresses the concerns raised in the September 2019 Stage 1 Road Safety Audit and that the revised proposals do not raise any additional safety concerns at this stage of audit.

## 6 Report Approval

Name	Sarah Bowie - IEng, MICE, FIHE, MCIHT, MSoRSA, HE RSA Cert Comp
Signed	
Position	Director
Organisation	Taylor Bowie Ltd
Date	28 <sup>th</sup> March 2021