BRYAN G HALL

CONSULTING CIVIL & TRANSPORTATION PLANNING ENGINEERS







CARRS LANE & NEWLAND AVENUE, CUDWORTH – OFF SITE WORKS

Stage 1 Road Safety Audit

November 2015

PROPOSED RESIDENTIAL DEVELOPMENT
OFF SITE WORKS
CARRS LANE/NEWLAND AVENUE
CUDWORTH
BARNSLEY

BARRATT HOMES AND DAVID WILSON HOMES

STAGE 1 ROAD SAFETY AUDIT

Report by: Andrew Cooper

Bryan G Hall
Consulting Civil & Transportation Planning Engineers
Suite E15, Joseph's Well, Hanover Walk, Leeds, LS3 1AB

Ref: 15-409-002.2

Date: November 2015

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1.0 INTRODUCTION

1.1 This Report comprises a Stage 1 Road Safety Audit (RSA) as defined in the Institution of Highways and Transportation (IHT) document RSA Guidelines, and the Department for Transport (DfT) Standard HD 19/15, and is concerned with the off-site highway works associated with the proposed Barratt Homes and David Wilson Homes residential development at Carr Lane and Newland Avenue, Cudworth, Barnsley. The off-site highway works are understood to have been requested by the Authority. This Audit was carried out in October 2015.

1.2 The Audit Team comprised:-

Andrew Cooper (MEng, BSC (Hons))
Principal Engineer
Bryan G Hall Consulting Civil and Transportation Planning Engineers

Martin Crabtree (BSC (Hons))
Senior Engineer
Bryan G Hall Consulting Civil and Transportation Planning Engineers

1.3 The Audit took place at the Leeds office of Bryan G Hall and comprised an examination of the information provided by the designer of the scheme. The scheme drawings and other information audited are detailed below:-

- SCP/14923/SK014 – Off site highway works White Cross Road and Low Cudworth Green footway improvements,
- SCP/14923/SK015 – Off site highway works,
- SCP/14923/SK016 – Proposed footway improvements, Carrs Lane,
- SCP/14923/SK017 – Swept path Carrs Lane,
- SCP/14923/SK018 – Off site highway works Lunn Road, Proposed 'Half and Half' parking bays,
- SCP/14923/SK019 – Off site highway works Barnsley Road / Manor Road junction improvements,
- SCP/14923/SK020 – Off site highway improvements Lunn Road. Proposed signing and renewal of road markings.
- SCP Transport Assessment (ref: GWB/14923/TA/01) – October 2015.
- SCP/14923/SK021 - Swept Path Assessment Barnsley Road / Manor Road junction improvements.

1.4 The audit team visited the site of the proposed highway works on the morning of Tuesday 27/10/2015. During the site visit the weather was overcast and the road surface was wet.

1.5 A review of the Personal Injury Accident (PIA) data provided by the scheme designer (Appendix 13 of the October 2015 Transport Assessment) has been undertaken and this data shows that there has been a total of 10 PIA's across the study area. It has not been possible to interrogate the full STATS 19 data as these have not been provided as part of the audit brief package, although the TA concludes that there are no common causation factors which require to be addressed as part of the schemes design.

1.6 The terms of reference of the Safety Audit are as described in HD 19/15. The auditor has examined and reported only on the road safety implications of the scheme as presented and has not examined or verified the compliance to any other criteria. Only items requiring comment are included in the Safety Audit.

2.0 ITEMS RAISED IN THIS STAGE 1 ROAD SAFETY AUDIT

2.1 All items raised within this RSA are shown on the annotated plans at Appendix **BGH1**.

Low Cudworth Green / White Cross Road

2.2 **Problem A**

The proposed pedestrian crossing on Low Cudworth Green.

Summary

The proposals seek to widen the existing southern footway of Low Cudworth Green to provide a pedestrian crossing point to the northern side of the road. The proposed location of the crossing point is on the radius of the junction with Edgelands Rise. At the back of the footway is a boundary stone wall with high planting. The wall and planting obscure the visibility of an approaching driver from Edgelands Rise to a waiting pedestrian in this location and this may result in a pedestrian choosing to cross the road when it is inappropriate to do so. This may lead to an increase in vehicle to pedestrian type collisions.

Recommendation

Relocate the position of the proposed pedestrian crossing point away from Low Cudworth Green/ Edgelands Rise junction to ensure adequate visibility to a waiting pedestrian is provided.

2.3 **Problem B**

The lack of a formal pedestrian crossing point from the steps down from White Cross Road to the existing eastern footway provision on Low Cudworth Green.

Summary

The proposals seek to improve and formalise the existing footway provision to the steps from White Cross Road and Low Cudworth Green. There is an existing paved path which promotes pedestrians to cross to the eastern footway provision on Low Cudworth Green however there are currently no facilities in place to assist this movement and it is not clear what provision is to be provided to meet this existing desire line. The lack of appropriate facilities may result in an increase in trip or fall type accidents which may lead to increase risk in injury.

Recommendation

Provide drop crossing kerbing and tactile paving provision to assist pedestrians to safely cross Low Cudworth Green in this location.

Carrs Lane Footway Improvements

2.4 **Problem C**

Pedestrian provision across private drives on Carrs Lane.

Summary

The proposals seek to provide a formal 1.5m wide footway on the western side of Carrs Lane. The new footway provision will cross two private drives and it is unclear what the designer is proposing to assist pedestrians undertake this movement. The lack of appropriate facilities may result in an increase in trip or fall type accidents which may lead to increase risk in injury.

Recommendation

Provide an appropriate pedestrian provision to assist pedestrians to safely cross the private drives on Carrs Lane.

2.5 **Problem D**

The position of an existing lighting column at the edge of carriageway on Carrs Lane.

Summary

There is an existing lighting column located within the highway margin adjacent to a stone wall on Carrs Lane. The column is shown in the photograph attached at **Appendix BGH2**. The proposals seek to introduce a 1.5m wide footway; however it is not clear what the intention is with respect to the future location of the lighting column. Should it remain in its current location the arrangement may lead to, given the intensification in movements on foot, pedestrians having to walk within the carriageway of Carrs Lane. This may lead to an increase in vehicle to pedestrian type collisions.

Recommendation

Increase the footway width at this point or relocate the lighting column.

Proposed 'Half and Half' Parking Bays on Lunn Road

2.6 **Problem E**

Proposed 'Half and Half' Parking Bays on Lunn Road.

Summary

The proposed drawing does not provide sufficient detail to understand how the proposed parking facility will operate in practice. It is therefore not possible to provide detailed comments on the scheme.

Recommendation

Despite the above however, the designer should be aware of the existing bus stop provision to the immediate south of the proposed bays and should demonstrate how parked vehicles and buses will interact safely. The designer should also demonstrate how the geometry of the proposed facility will ensure that residents can park efficiently on Lunn Road without having to undertake multiple back/forth movements on the highway.

General Comments

2.7 The existing carriageway and footway surface condition on the local highway network is poor in condition and consideration should be given to its replacement as part of the overall works. The poor condition of the carriageway could contribute towards an increase in loss of control/skidding type accidents and promote sporadic areas of ponding of water and freezing in cold conditions.

2.8 The network of local roads are steep in nature with significant changes in gradient. Although no details have been provided at this time the designer should consider the matter of highway drainage and the adequacy of the existing provision as part of the S278 design process.

2.9 The designer seeks to introduce warning sign TSRGD 562 'Other Danger Ahead' with an additional information plate at the junction of White Cross Road with Low Cudworth Green. It should be note that the choice of sign is considered incorrect and should be replaced with warning sign TSRGD 544.1 'Pedestrians in Road Ahead'.

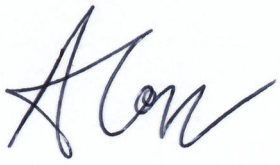
2.10 The current condition of the steps down from White Cross Road to Low Cudworth Green is poor in nature. It is likely that the stairs are an adopted structure and it may be prudent, once ownership is confirmed, for the designer to bring this

matter to the attention of the maintaining authority as part of the overall scheme works.

3.0 AUDIT STATEMENT

3.1 I certify this audit has been carried out in accordance with HD 19/15.

Signed:-



Date:- 10·11·2015

Andrew Cooper MEng, BSC (Hons)
Principal Engineer
Bryan G Hall Consulting Civil and Transportation Planning Engineers

Signed:-



Date:- 10·11·2015

Martin Crabtree BSC (Hons)
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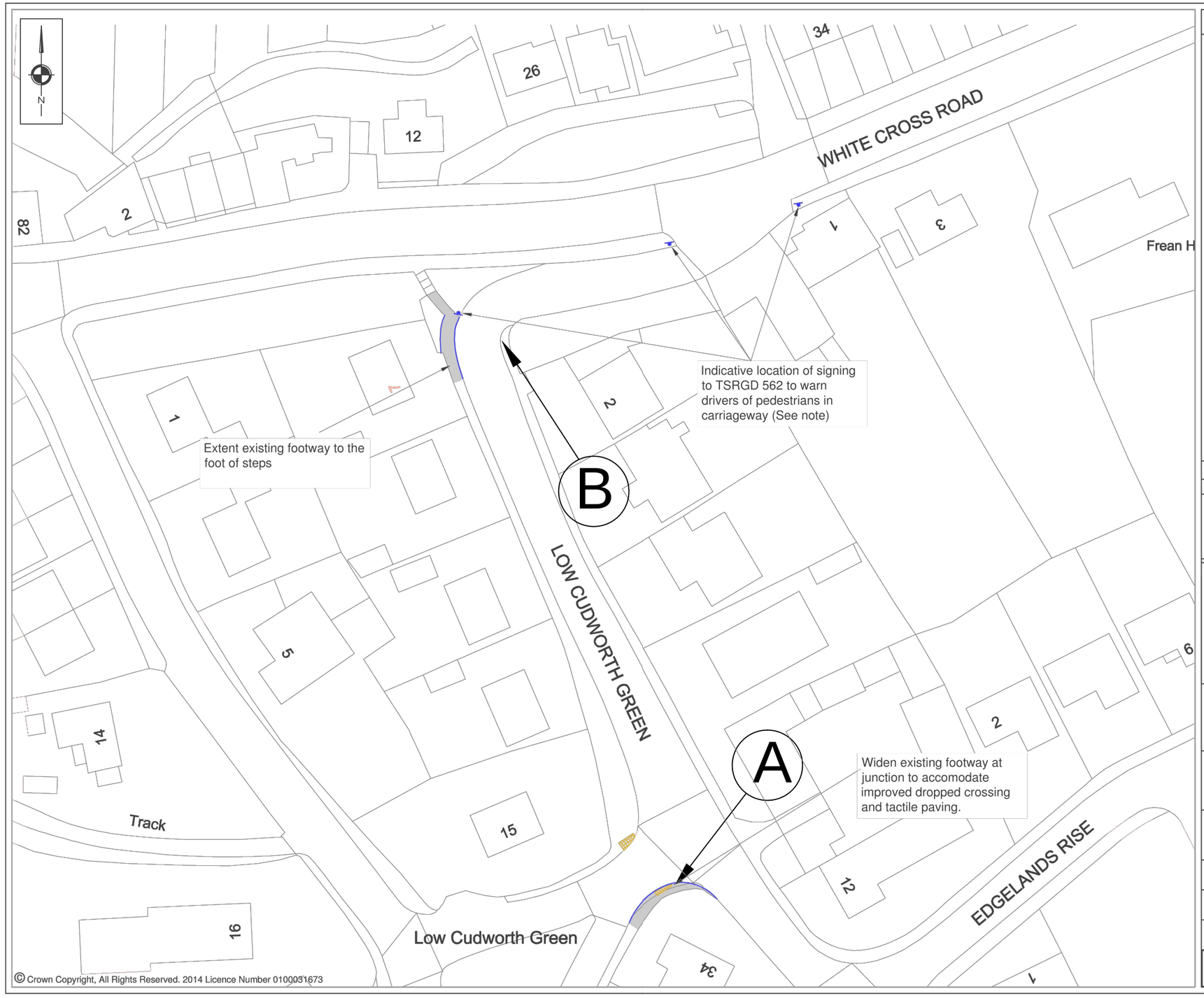
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APPENDIX BGH 1



NOTES



Sign to TSRGD 562 and accompanying text "pedestrians in carriageway". Locations to be determined by local BMBC Highways

REVISIONS

REV	DESCRIPTION	DATE	BY
-	-	-	-

S|C|P

Transportation Planning : Infrastructure Design

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www.scptransport.co.uk, Email info@scptransport.co.uk

Client Name: BARRATT HOMES

Project Title: PROPOSED RESIDENTIAL DEVELOPMENT CARRS LANE, CUDWORTH

Drawing Title: OFF SITE HIGHWAY WORKS WHITE CROSS ROAD & LOW CUDWORTH GREEN FOOTWAY IMPROVEMENTS

Drawn By: TH	Date: OCT 2015
Checked: GWB	Scale: 1:500 @ A3
Status: PLANNING	Approved/Unapproved: -
Drawing No. SCP/14923/SK014	Rev. -

Client: SCP TRANSPORT

Project: STAGE 1 ROAD SAFETY AUDIT CUDWORTH, BARNSLEY

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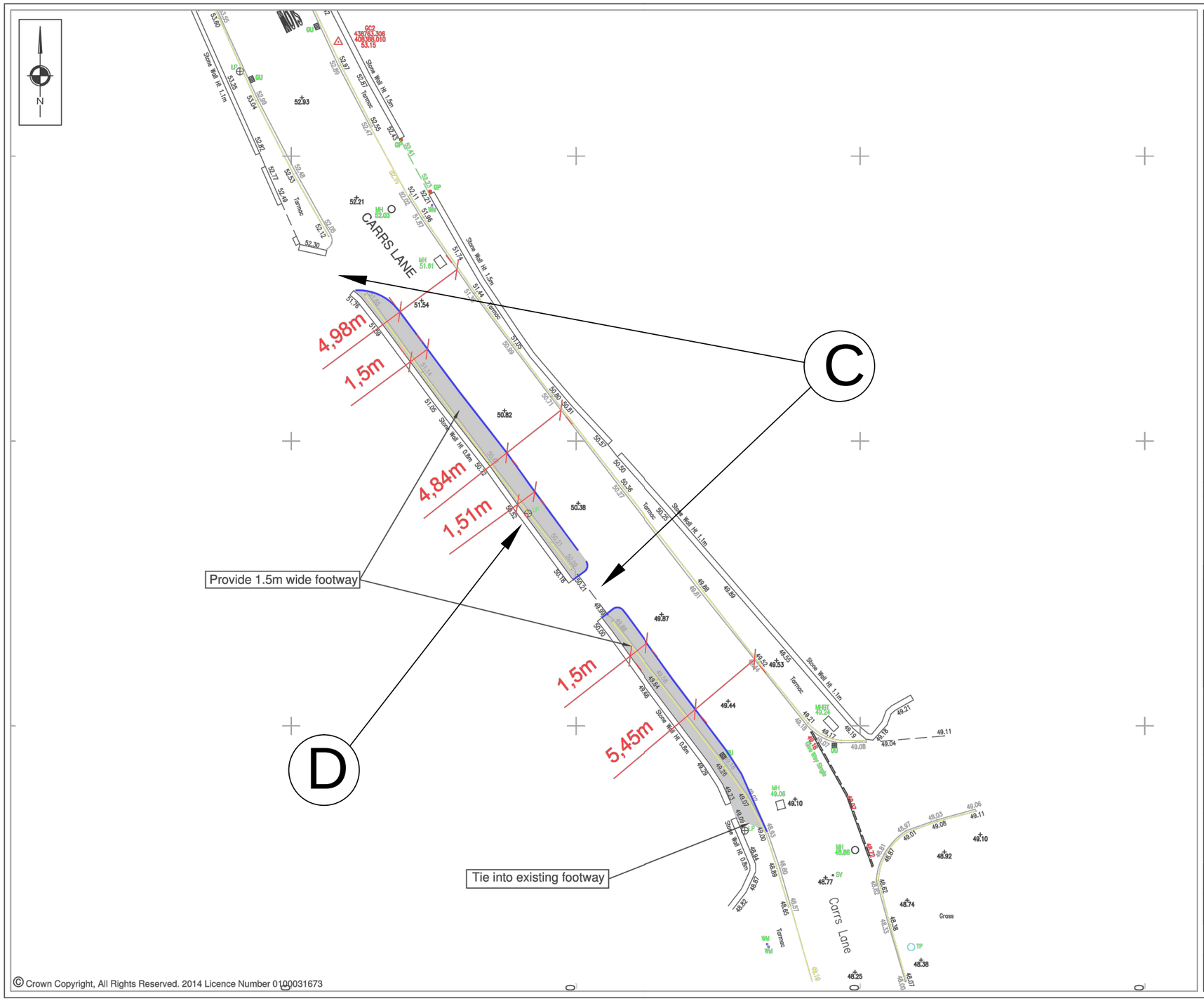
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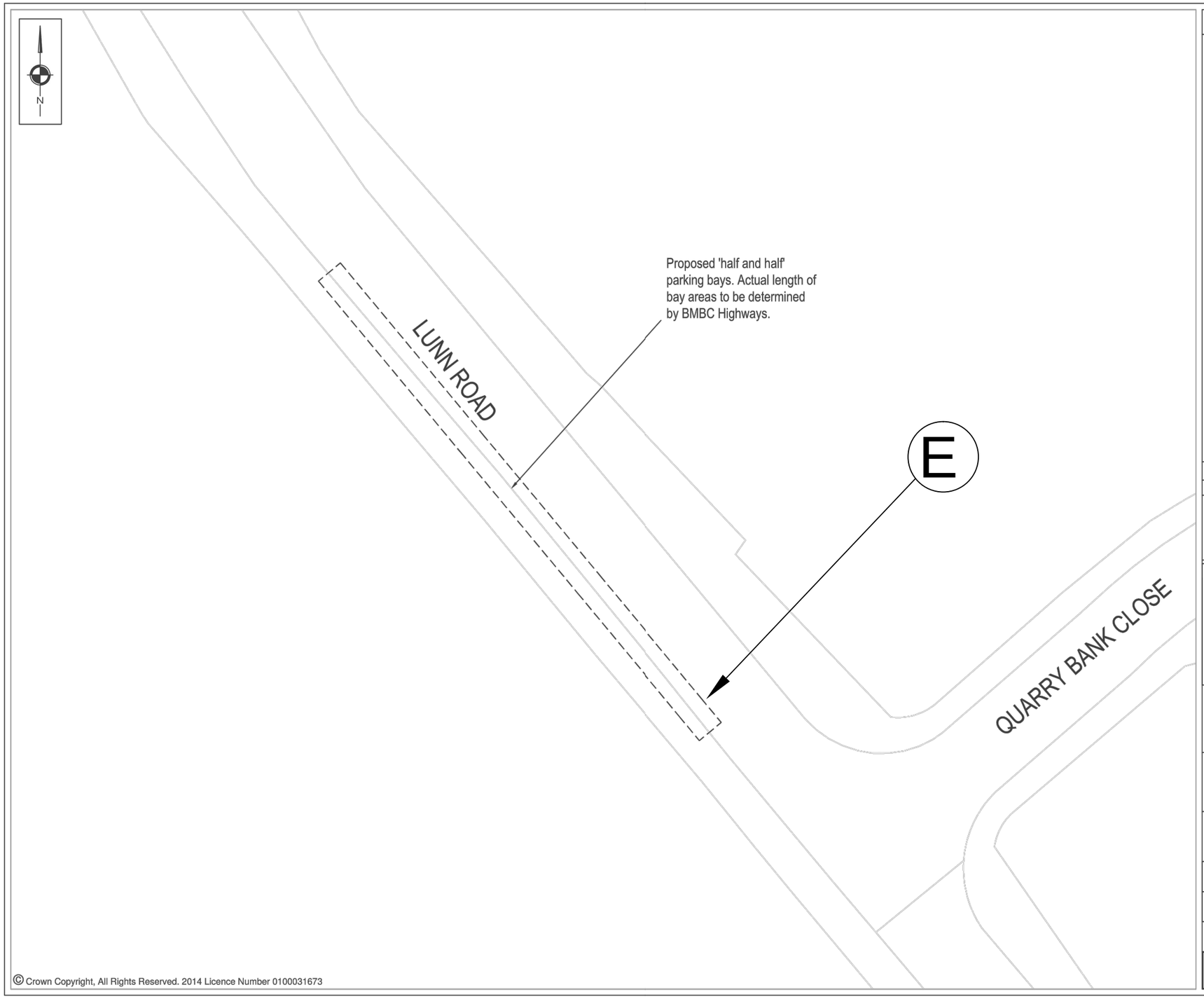
Title: RSA LOCATION PLAN, OFF SITE HIGHWAY WORKS 1 OF 3

Rev:	Amendment:	Drn:	Chk:	Date:

Job No: 15-409 Drawn: NC Checked: AC Date: 28.10.15

Scale: NTS (A3 - 420 x 297) Drawing No: 15/409/RSA/002 Revision: -


CARRS LANE
4,98m
1,5m
4,84m
1,51m
1,5m
5,45m
C
D
Provide 1.5m wide footway
Tie into existing footway
Carrs Lane
Tarmac
Grass
Stone Wall Ht 1.5m
Stone Wall Ht 1.1m
Stone Wall Ht 0.6m
Stone Wall Ht 0.8m
Stone Wall Ht 1.1m
Stone Wall Ht 0.8m
Stone Wall Ht 1.1m
Stone Wall Ht 1.1m
Stone Wall Ht 0.8m
Stone Wall Ht 1.1m
Stone Wall Ht 1.1m
Stone Wall Ht 1.1



NOTES

REVISIONS

REV	DESCRIPTION	DATE	BY
-	-	-	-

S|C|P

Transportation Planning : Infrastructure Design

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Client Name: BARRATT HOMES

Project Title: PROPOSED RESIDENTIAL DEVELOPMENT CARRS LANE, CUDWORTH

Drawing Title: OFF SITE HIGHWAY WORKS LUNN ROAD PROPOSED 'HALF & HALF' PARKING BAYS

Drawn By:	Date:
TH	OCT 2015
Checked: GWB	Scale: 1:250 @ A3
Status: PLANNING	Approved/Unapproved: -
Drawing No.: SCP/14923/SK018	Rev.: -

Client: SCP TRANSPORT

Project: STAGE 1 ROAD SAFETY AUDIT CUDWORTH, BARNSLEY

Title: RSA LOCATION PLAN, OFF SITE HIGHWAY WORKS 3 OF 3

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Rev:	Amendment:	Drn:	Chk:	Date:

Job No: 15-409 Drawn: NC Checked: AC Date: 28.10.15

Scale: NTS (A3 - 420 x 297) Drawing No: 15/409/RSA/004 Revision: -

APPENDIX BGH 2

Appendix BGH2 – Location of Lighting Column on Carrs Lane

