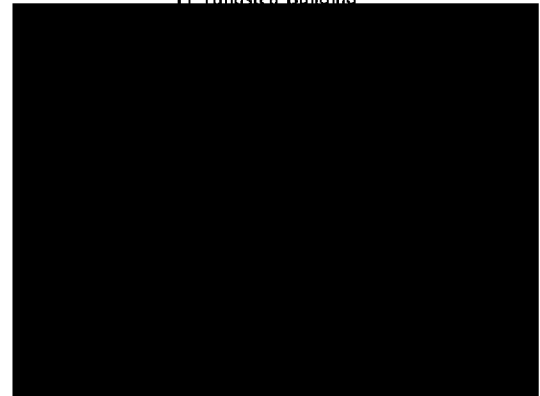


BN/6/10



The Civil Engineering Practice
11 Tunstall Building



Stage 1 Safety Audit & Designer's Response

Proposed development at

**The Lillies Caravan Park
Yapton Road, Barnham, West Sussex**

On behalf of

Mr Roy Hartrick

February 2010

THE CIVIL ENGINEERING-PRACTICE

22 FEB 2010

RECEIVED

"LILLIES CARAVAN PARK"
YAPTON ROAD, BARNHAM, WEST SUSSEX
PROPOSED ACCESS & HIGHWAY WORKS

Road Safety Audit
Stage 1 - Preliminary Design

February 2010

CONTENTS

- Introduction
- Items raised from this Stage 1 Road Safety Audit
- Audit Team Leader's Statement
- Appendix A List of Documents Examined
- Appendix B Key Plan

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Chichester
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Mob 07774 882168

INTRODUCTION

This report describes the results of a Stage 1 Preliminary Design Road Safety Audit, carried out on the proposed access arrangements and highway works associated with removal of the existing access to Lillies Caravan Park, located at the south side of Yapton Road, Barnham, West Sussex and subsequent opening of nearby new pedestrian and vehicular access in connection with construction of approximately 34 new dwellings to replace the existing use of the site as a caravan park. The Safety Audit was carried out at the request of the Design Organisation, The Civil Engineering Practice, 11 Tungsten Building, George Street, Fishergate, Sussex, BN41 1RA, on behalf of Lillies Caravan Park.

The object of this audit is to identify any existing safety related problems that may be exacerbated or any new problems that may be introduced, by the proposed works.

The audit team comprised Ted Smith and Martin Brownsey, Senior Highways Engineers specialising in Highway Safety and Traffic Engineering, who have operated independently of the design team responsible for the scheme and had no involvement with the design of the proposals.

The procedures followed by the audit are as described in the Highways Agency's Design Standard HD 19/03 (DMRB Volume 5: Section 2, Part 2) and the incorporated categories of checklists, as appropriate. The Audit has examined and reported only on the road safety implications of the scheme as presented in the drawings listed in the Appendix to this report, and has not examined or verified compliance of the design with any other criteria or standard.

This audit was carried out during February 2010 in the offices of the audit team members, comprising of an examination of the documents listed in Appendix A. A site inspection was carried out and photographs taken on the morning of Wednesday 17th February 2010, during which time it was clear and sunny with dry road surfaces. Traffic Flows along the Yapton Road were light and only one pedestrian was seen walking on the north footway. No cyclists were seen.

All of the problems identified in this report are considered to be of sufficient importance to warrant attention and are indicated on the Key Plan at Appendix B.

ITEMS RAISED FROM THIS STAGE 1 ROAD SAFETY AUDIT.

A1 GENERAL

A1.1 COMMENT

No Relaxations or Departures from Standards were reported by the Designer for this scheme.

A2 LOCAL ALIGNMENT

No road safety related issues are identified in this category at this stage.

A3 JUNCTIONS

A3.1 PROBLEM

Location: Proposed new access to the development site.

Summary: Risk of existing hedges obstructing junction visibility splays.

Although junction visibility splays of 2.4m x 70m are shown on the design drawings, the boundary lines of those splays appear to pass through the existing tall hedges that are close to the edge of the main carriageway, whereby obstruction of those splays may result. Furthermore, if the existing low height hedge across the frontage of dwelling number "47" is subsequently allowed to grow taller, it also may obstruct the proposed visibility splay.

RECOMMENDATION

As part of the site access changes, the existing hedges should be removed or suitably cut back to a line behind the proposed visibility splay and that section across the frontage of dwelling "47" should also be removed and if replacement is considered it should be replanted behind the line of the visibility splay.

A3.2 PROBLEM

Location: Existing joint site access to Lillies Caravan Park and existing dwelling at number "47" Yapton Road.

Summary: Need to retain section of existing access.

Although proposed works involve closure of the existing access to the Caravan Site, since it jointly provides vehicular access to that site and to number "47", the east side of the existing access will need to be maintained to that dwelling.

RECOMMENDATION

As part of the site access changes, the existing wide access will need to be reduced and appropriate vehicle crossover with suitable adjacent upstand kerbing should be provided, which clearly distinguishes it from the new bellmouth to the nearby development site.

A4 NON MOTOR VEHICLE PROVISIONS

A4.1 PROBLEM

Location: Proposed site access to the new development site.

Summary: Risk of inadequate pedestrian access to the north side of the main road.

Although the proposed access bellmouth is shown with footway works involving tactile paved dropped crossings at each side of the bellmouth, since no footway is currently provided along the south side of Yapton Road, pedestrians entering and leaving the development site will need to reach the existing footway along the north side of the main road.

RECOMMENDATION

At each side of the new bellmouth the indicated footways should be extended sufficiently east and westwards to enable tactile paved dropped crossings to be provided across Yapton Road.

A5 ROAD SIGNS, MARKINGS AND STREET LIGHTING

A5.1 COMMENT

Whilst details of any signs, road markings or street lighting are not currently shown, any subsequent Detailed Design may need to review such signing and marking features and also the level of carriageway and footway illumination within the proposed access road and its junction with the proposed site access.

** **

AUDIT TEAM LEADER'S STATEMENT

I certify that this audit has been carried out in accordance with HD 19/03.

AUDIT TEAM LEADER

Ted Smith
Traffic Safety Consultant
1a The Parade
East Wittering
Chichester
West Sussex
PO20 8BN

Date

19th February 2010

AUDIT TEAM MEMBER

Martin Brownsey
MB Projects Ltd
Highways Consultancy
Farthings
Grants Lane
Oxted
Surrey
RH8 0RH

APPENDIX A

LIST OF DOCUMENTS EXAMINED

Drawing No	Date	Scale	Description
21882/10	Jan 2010	1:500	Site Layout Plan Large Refuse Vehicle Tracking
21882/11	Feb 2010	1:200	Site Access

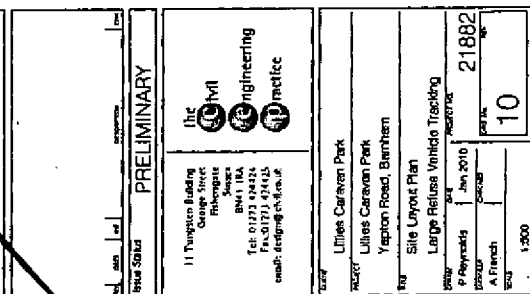
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APPENDIX B

KEY PLAN

Copy of Drawing Numbered 21882/10

(Items A1.1 & A5.1 are not included on the Key Plan)



Designer's Response to Stage 1 Safety Audit

<u>Safety Audit Comment</u>	<u>Recommendation</u>	<u>Designer's Response</u>
A1 GENERAL		
A1.1 COMMENT		
No Relaxations or Departures from Standards were reported by the Designer for this scheme.		Noted.
A2 LOCAL ALIGNMENT		
No road safety related issues are identified in this category at this stage.		Noted.
A3 JUNCTIONS		
A3.1 PROBLEM		
Location: Proposed new access to the development site. Summary: Risk of existing hedges obstructing junction visibility splays. Although junction visibility splays of 2.4m x 70m are shown on the design drawings, the boundary lines of those splays appear to pass through the existing tall hedges that are close to the edge of the main carriageway, whereby obstruction of those splays may result. Furthermore, if the existing low height hedge across the frontage of dwelling number "47" is subsequently allowed to grow taller, it also may obstruct the proposed visibility splay.	As part of the site access changes, the existing hedges should be removed or suitably cut back to a line behind the proposed visibility splay and that section across the frontage of dwelling "47" should also be removed and if replacement is considered it should be replanted behind the line of the visibility splay.	Agreed. The visibility splays have been reduced to 2.4m x 43m in accordance with Manual for Streets for a 30mph road. The hedge to number 47 is to be removed and replanted behind the visibility splay as shown on drawings 21882/10A & 11A.

Safety Audit Comment

Recommendation

Designer's Response

A3.2 PROBLEM

Location: Existing joint site access to Lillies Caravan Park and existing dwelling at number "47" Yapton Road.

Summary: Need to retain section of existing access.

Although proposed works involve closure of the existing access to the Caravan Site, since it jointly provides vehicular access to that site and to number "47", the east side of the existing access will need to be maintained to that dwelling.

As part of the site access changes, the existing wide access will need to be reduced and appropriate vehicle crossover with suitable adjacent upstand kerbing should be provided, which clearly distinguishes it from the new bellmouth to the nearby development site.

The existing access will be closed and reinstated with footway and full height kerbs. A vehicular crossover will be provided to number 47 Yapton Road as shown on drawings 21882/10A & 11A.

A4 NON MOTOR VEHICLE PROVISIONS

A4.1 PROBLEM

Location: Proposed site access to the new development site.

Summary: Risk of inadequate pedestrian access to the north side of the main road.

Although the proposed access bellmouth is shown with footway works involving tactile paved dropped crossings at each side of the bellmouth, since no footway is currently provided along the south side of Yapton Road, pedestrians entering and leaving the development site will need to reach the existing footway along the north side of the main road.

At each side of the new bellmouth the indicated footways should be extended sufficiently east and westwards to enable tactile paved dropped crossings to be provided across Yapton Road.

Agreed. Footways added together with tactile paving crossings over Yapton Road as shown on drawings 21882/10A & 11A.

A5 ROAD SIGNS, MARKINGS AND STREET LIGHTING

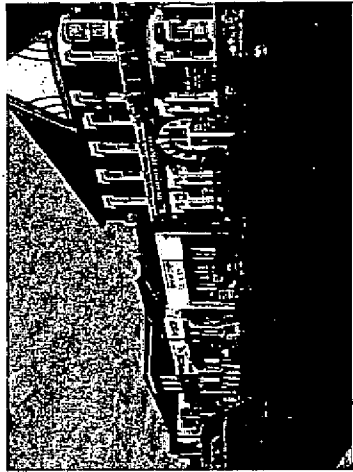
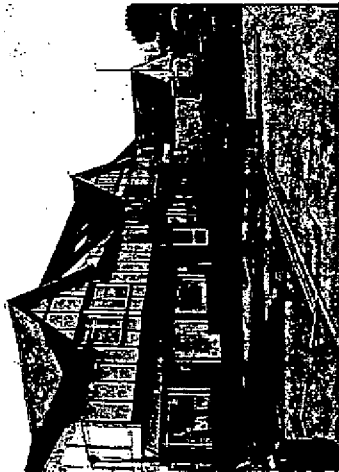
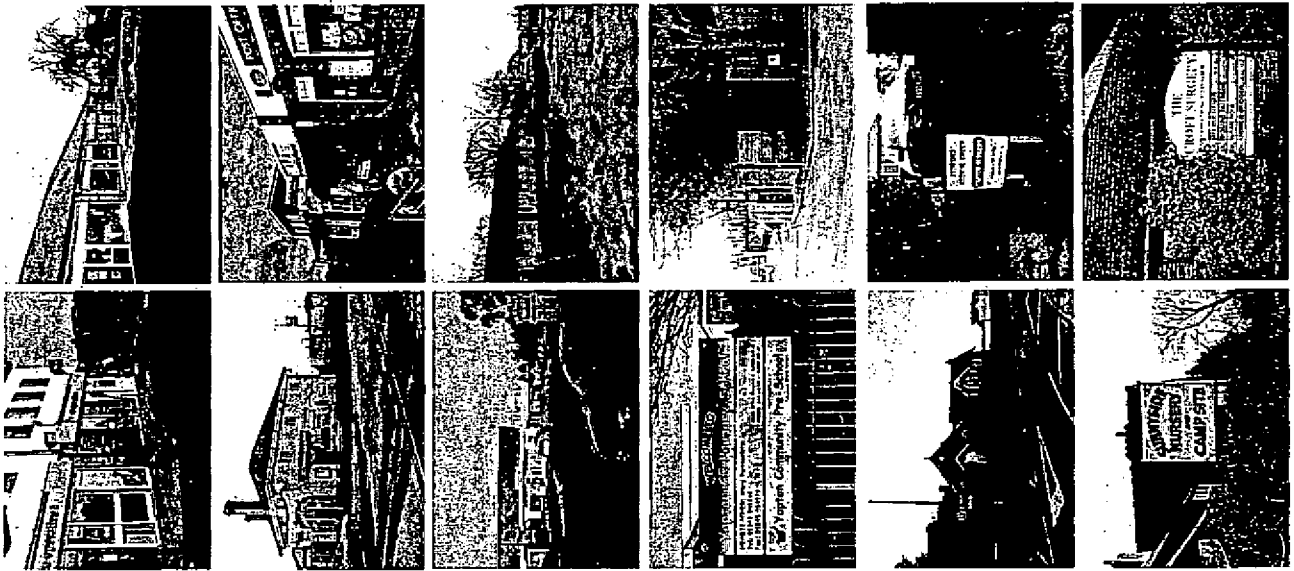
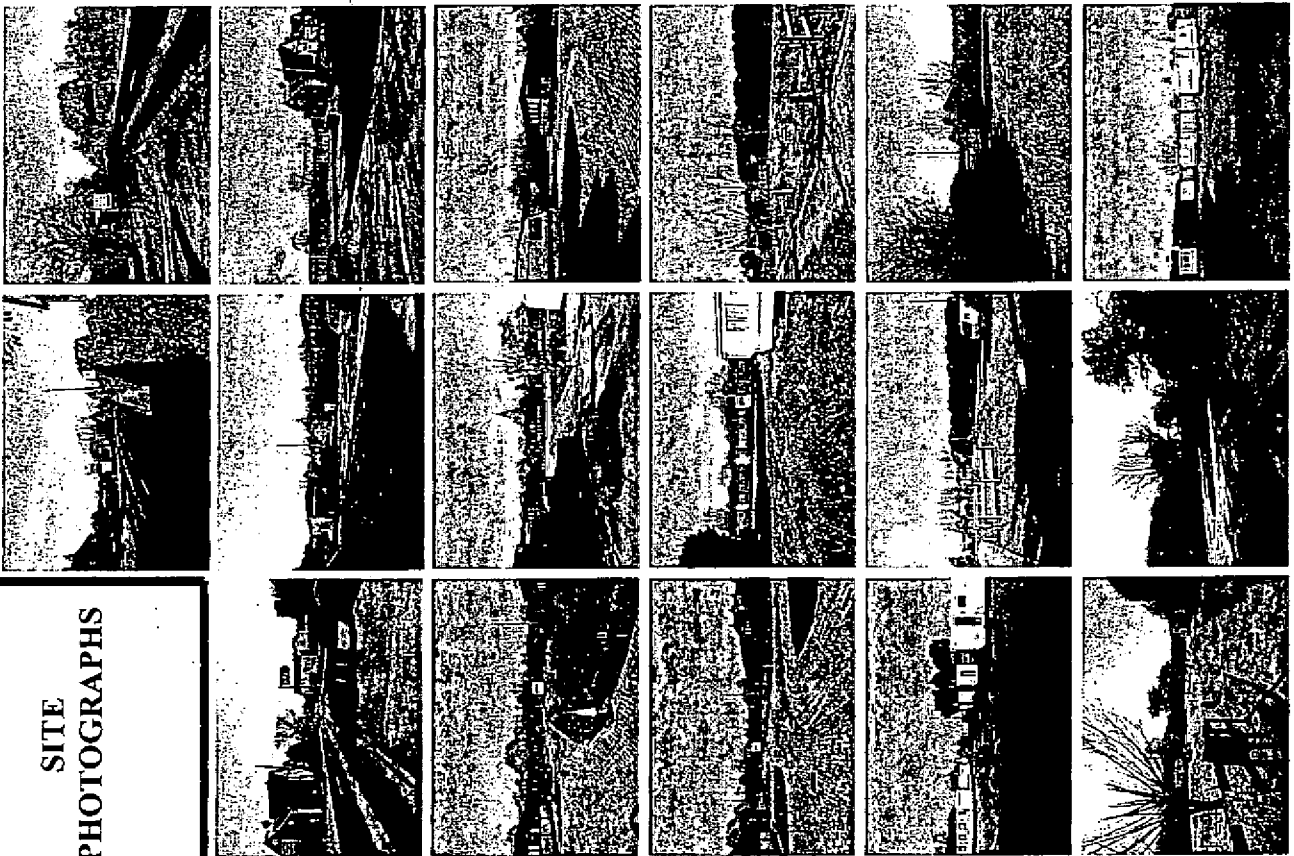
A5.1 PROBLEM

Whilst details of any signs, road markings or street lighting are not currently shown, any subsequent Detailed Design may need to review such signing and marking features and also the level of carriageway and footway illumination within the proposed access road and its junction with the proposed site access.

Noted.

BN/6/10.

**SITE
PHOTOGRAPHS**



LOCAL FACILITIES

PHOTO MONTAGE

DATE PRODUCED 02/02/2010

THE LILLIES HOLIDAY PARK,
YAPTON ROAD,
BARNHAM,
WEST SUSSEX,
PO22 0AY



Jacobs Foreman
Developments Ltd

