



## Detail Design Check Report

**Job Number:**

R.J505401.01

**DDC Number:**

DDC 526

**Scheme Title:**

Sainsbury's Waterloooville

**Date:**

17<sup>th</sup> June 2013

**District/Area:**

Havant / South



**Author:**

M Westwood

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## Detail Design Check Report

### Consultant

Name: Mayer Brown

Address: Lion House, Oriental Road, Woking, Surrey, GU22 8AR

Tel: 01483 750508

Contact: Adrian Barnley

### Developer

J Sainsbury Plc

### Site Location.

Hambledon Road junction with Aston Road, Waterlooville

### Date design check received from Development Planning.

26<sup>th</sup> September 2012. The design check has been delayed due to amendments needing to be made to the ITS arrangement.

### Submitted Information.

| Drawing no.      | Revision | Drawing Title                                                                   | Date Received                 |
|------------------|----------|---------------------------------------------------------------------------------|-------------------------------|
| ZSSLWVILLE2.2/08 | A        | Topographic Survey Drawing                                                      | 17 <sup>th</sup> January 2013 |
| ZSSLWVILLE2.2/09 | F        | Site Clearance Drawing                                                          | 17 <sup>th</sup> January 2013 |
| ZSSLWVILLE2.2/10 | L        | General Arrangement Drawing                                                     | 13 <sup>th</sup> May 2013     |
| ZSSLWVILLE2.2/11 | D        | Construction Treatments Drawing                                                 | 13 <sup>th</sup> May 2013     |
| ZSSLWVILLE2.2/12 | D        | Drainage and Ducting Drawing                                                    | 13 <sup>th</sup> May 2013     |
| ZSSLWVILLE2.2/13 | D        | Aston Road - Traffic Signals Drawing                                            | 13 <sup>th</sup> May 2013     |
| ZSSLWVILLE2.2/14 | D        | Maurepas Way - Traffic Signals Drawing                                          | 13 <sup>th</sup> May 2013     |
| ZSSLWVILLE2.2/15 | D        | Street Lighting Drawing                                                         | 13 <sup>th</sup> May 2013     |
| ZSSLWVILLE2.2/20 | C        | Proposed String Labels and Setting Out Drawing                                  | 13 <sup>th</sup> May 2013     |
| ZSSLWVILLE2.2/21 | C        | Aston Road (New) Proposed Roundabout – Stockdale Crown Line Design              | 13 <sup>th</sup> May 2013     |
| ZSSLWVILLE2.2/22 | A        | Proposed Cross Sections along Roundabout Crowns MCR1, MCR2 & MCR3               | 17 <sup>th</sup> January 2013 |
| ZSSLWVILLE2.2/23 | A        | Aston Road (New) – Proposed Longitudinal and Cross Sections along MCL0 and MCL1 | 17 <sup>th</sup> January 2013 |
| ZSSLWVILLE2.2/24 | -        | Hambledon Road – Proposed Longitudinal and Cross Sections along MCL2            | 17 <sup>th</sup> January 2013 |
| ZSSLWVILLE2.2/25 | -        | Customer Access & Aston                                                         | 17 <sup>th</sup> January 2013 |

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|                            |   |                                                                                                                       |                               |
|----------------------------|---|-----------------------------------------------------------------------------------------------------------------------|-------------------------------|
|                            |   | Road (New) –Proposed<br>Longitudinal and Cross<br>Sections along MCL3 and<br>MCL4                                     |                               |
| ZSSLWVILLE2.2/26           | - | Aston Road (New) –<br>Proposed Longitudinal<br>Sections along Channel lines<br>MC00, MC01, MC07 and<br>MC08           | 17 <sup>th</sup> January 2013 |
| ZSSLWVILLE2.2/27           | - | Longitudinal Sections Along<br>Proposed Drainage Networks<br>1 and 2 on a 1 in 2 year event<br>and 1 in 30 year event | 17 <sup>th</sup> January 2013 |
| ZSSLWVILLE2.2/28           | - | Maurepas Way – Proposed<br>Longitudinal and Cross<br>Sections along MC0A                                              | 17 <sup>th</sup> January 2013 |
| ZSSLWVILLE2.2/S278         | H | Land to be Dedicated as<br>Public Highway                                                                             | 13 <sup>th</sup> May 2013     |
| ZSSLWVILLE2.2/STATS-<br>03 | C | Proposed Services Drawing                                                                                             | 17 <sup>th</sup> January 2013 |
| SSLWVILLE2.2/CD            | A | Construction Details Booklet                                                                                          | 17 <sup>th</sup> January 2013 |
| 779B-27                    | - | Root barrier Details                                                                                                  | 17 <sup>th</sup> January 2013 |
| 779B-23                    | C | Detailed Soft Landscaping<br>Proposal                                                                                 | 17 <sup>th</sup> January 2013 |

| Document no.                        | Document Title                          | Revision | Date Received                 |
|-------------------------------------|-----------------------------------------|----------|-------------------------------|
| ZSSLWVILLE                          | Traffic Signing                         | D        | 17 <sup>th</sup> January 2013 |
| ZSSLWVILLE                          | MB Spec                                 | A        | 17 <sup>th</sup> January 2013 |
| SSLWVILLE                           | Hambleton Road<br>Pavement Design Calcs | A        | 17 <sup>th</sup> January 2013 |
| SSLWVILLE                           | Aston Road Pavement<br>Design Calcs     | A        | 17 <sup>th</sup> January 2013 |
| LR3                                 | Maurepas Way CE1                        | -        | 17 <sup>th</sup> January 2013 |
| LR2                                 | Aston Road S3                           | A        | 17 <sup>th</sup> January 2013 |
| LR1                                 | B2150 CE1                               | A        | 17 <sup>th</sup> January 2013 |
| Area B                              | Hambleton Rd - Ramp                     | -        | 17 <sup>th</sup> January 2013 |
| SCAN-kfzz363pm_<br>(HF000003158978) | AIP document                            |          | 17 <sup>th</sup> January 2013 |
| SCAN-55tbqhv6l_<br>(HF000003255240) | AIP infill document                     |          | 17 <sup>th</sup> January 2013 |
|                                     | Sainsburys Waterlooville<br>email       |          | 17 <sup>th</sup> January 2013 |

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4483.0013

Design & Check  
Certificates

17<sup>th</sup> January 2013

## Description of Highway Improvements.

The development proposals include the following highway works:

- Repositioning of the signal junction of the B2150 Hambledon road and Aston Road
- Realignment and widening of Aston Road
- Hambledon Road improvement to facilitate access to the Petrol Filling Station
- Repositioning of Hambledon Road and Aston Road roundabout
- Provision of new site access from Aston Road
- Provision of Pedestrian Ramp on the northern side of Maurepas Way
- Provision of Controlled Pedestrian Crossing on Maurepas Way.

The proposed works has been split into two legal agreements these cover, all the works to Aston Road and Hambledon Road and the other agreement is the ramp and associated crossing.

## Estimate

There is an estimated cost for the scheme of approximately £2,100,000 this is split between £1,000,000 for the ramp and associated works and £1,100,000 for the works associated with Hambledon Road and Aston Road.

Consultations undertaken by Engineering Consultancy with Client Groups.

|                                          | Date Consulted  | Response Received |
|------------------------------------------|-----------------|-------------------|
| Highways Manager                         | 05 October 2012 | Non return        |
| Traffic Management                       | 05 October 2012 | 25 October 2012   |
| Planning Policy and Development          | 05 October 2012 | Non return        |
| Delivery                                 | 05 October 2012 | Non return        |
| Street Lighting Section                  |                 |                   |
| Safety Engineering / Non Motorised Users |                 |                   |
| Arboriculture                            | 05 October 2012 | 18 October 2012   |
| Abnormal Loads                           | 05 October 2012 | 25 October 2012   |
| Structures                               | 05 October 2012 | 15 October 2012   |
| Intelligent Transport Systems            |                 |                   |
| Passenger Transport                      | 05 October 2012 | 07 October 2012   |

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|                                            |                 |                 |
|--------------------------------------------|-----------------|-----------------|
| <b>Ecology</b>                             | 05 October 2012 | 10 October 2012 |
| <b>Strategic Environmental Development</b> | 05 October 2012 | 10 October 2012 |
| <b>Technical Advice Group.</b>             | 05 October 2012 | 26 October 2012 |

**Note: Only three consultees have been given the opportunity to comment on the amended drawing as all other comments from October has been incorporated into the design.**

## Comments on Design Check

### **Suitability of Documentation Supplied.**

All documents supplied were suitable to undertaken a design check.

### **Traffic Information provided or available.**

The traffic information was agreed during the Preliminary Design Check.

### **Traffic speed surveys (if any)**

The traffic speed was agreed during the Preliminary Design Check.

### **Accident history / Report.**

The accident information was agreed during the Preliminary Design Check.

### **Geotechnical Site Investigation.**

A geotechnical site investigation was undertaken as part of the ramp design and has been agreed as part of the AIP process.

### **Earthworks**

There are no earthworks associated with this scheme.

### **Horizontal Alignment.**

The horizontal alignment is acceptable.

### **Vertical Alignment.**

The vertical alignment is acceptable.

### **Drainage Proposals.**

The drainage proposals are acceptable, however the consultant must provide evidence that the connections to Southern Water Network is acceptable.

To promote the use of recycled plastic, please consider HAPAS certified recycled plastics, such as JFC Twinwall drainage piping - see link below. Installation of such piping should be installed as per manufacturers recommendations.  
(<http://www.greenspec.co.uk/html/product-pages/corripipe.php>)

Jetting of new drainage runs will be necessary at end of contract, in order to ensure all new pipe-work is free of debris and free running.

### **Street Lighting Proposals.**

The street lighting design has been approved and the certificate is attached.

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Consultant should note that Southern Electric Contracting will not undertake any servicing works until a 'Certificate of Approval for Illuminated Street Furniture Installation' has been signed the HCC Street Lighting Engineer. Information required for such certification comprises an approved design complete with existing Maintenance Numbers and an programme of works agreed. The Contractor must notify HCC street lighting upon commencement of their works on site.

It is a requirement of the Consultant to consult the relevant Local Lighting Authority regarding any proposals.

<http://www3.hants.gov.uk/index/your-area/localpages/districts.htm> or

<http://www3.hants.gov.uk/index/council/localgov/parish.htm>

## **Traffic Signals.**

All ITS comments have been incorporated into the design.

## **Road Markings and Traffic Signing.**

The road markings and traffic signs are acceptable for this scheme.

## **Pavement Design.**

The pavement design is acceptable, however the consultant should be aware of the following requirements.

The Sub-Base shall be recycled granular material in accordance with HCC Clauses 891AR or 892 AR (Hampshire County Council Master Contract Documents). Virgin crushed rock Sub-Base may only be used where it can be demonstrated that recycled or secondary materials are not available locally.

Furthermore, during the first week of construction work equilibrium CBR values shall be established.

## **Structures**

Design & Check Certificate "B" supplied. Upon works completion a "Construction Certificate" will be required.

## **Surface Dressings, anti-skid etc.**

The surface treatment work carried out at each site shall only be deemed acceptable if the minimum standards of performance are achieved and maintained throughout the defects correction period, which shall be three years.

## **Sight visibilities.**

The sight visibilities were approved at Preliminary Design Stage

## **Cycle & Pedestrian Facilities.**

The cycle and pedestrian facilities are acceptable

## **Passenger Transport Facilities.**

There are no passenger transport facilities associated with this scheme.



## Stage 2 Safety Audit.

All the concerns raised within the Stage 2 Road Safety Audit have been addressed.

## Arboriculture.

The arboriculture drawings are acceptable.

## Specification/Standard Detail Drawings.

The specification and standard details are acceptable.

## Statutory Undertakers.

Details provided, but not assessed

## Statutory Requirements.

|                                             |                 |
|---------------------------------------------|-----------------|
| Orders. (Line / Side Road Orders)           | N / A           |
| Compulsory Purchase Orders.                 | N / A           |
| Traffic Regulation Orders.<br>restrictions) | Yes (No waiting |
| Parking Restriction Orders.                 | N / A           |
| Road Hump Regulation Consultations.         | N / A           |
| Public Consultation.                        | N / A           |
| Hedgerow Regulation Act.                    | N / A           |
| Footway Conversion                          | N / A           |
| Highway Extinguishment                      | Completed       |

**The process of any Statutory requirements will not be commenced until a written request is received from the Consultant; this should include an undertaking to pay all costs incurred.**

**Consultant to note that the procedure for dealing with any Statutory Requirements will normally take some four to six months, but can in exceptional circumstances could exceed nine months & that the scheme programme should take due account.**

|               |              |                                                                                                  |
|---------------|--------------|--------------------------------------------------------------------------------------------------|
| <b>Office</b> | <b>Tel</b>   | <b>Email</b>                                                                                     |
| South         | 01329 824757 | <a href="mailto:highways-transport.south@hants.gov.uk">highways-transport.south@hants.gov.uk</a> |

## Departures from DMRB / HCC Standards.

| Departure No | Type                           | Drawing No.            | Approved (Yes/No) |
|--------------|--------------------------------|------------------------|-------------------|
| MB1          | Entry deflection to roundabout | ZSSLWVILLE.2/DFS Rev B | Yes               |
| MB2          | Entry deflection to roundabout | ZSSLWVILLE.2/DFS Rev B | Yes               |
| MB3          | Entry deflection to roundabout | ZSSLWVILLE.2/DFS Rev B | Yes               |

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|      |                                    |                        |           |
|------|------------------------------------|------------------------|-----------|
| MB4  | Stopping sight distance            | ZSSLWVILLE.2/DFS Rev B | Yes       |
| MB5  | Stopping sight distance            | ZSSLWVILLE.2/DFS Rev B | Yes       |
| MB6  | Stopping sight distance            | ZSSLWVILLE.2/DFS Rev B | Yes       |
| MB7  | Carriageway Width                  |                        | Withdrawn |
| MB8  | Carriageway Width                  |                        | Withdrawn |
| MB9  | Deceleration lane length           | ZSSLWVILLE.2/DFS Rev B | Yes       |
| MB10 | Sight stopping distance to signals | ZSSLWVILLE.2/DFS       | Yes       |
| MB11 | Sight stopping distance to signals | ZSSLWVILLE.2/DFS       | Yes       |

## Officer Comments.

Work is not permitted within the Highway until the following information has been provided and approved:

- Written confirmation from the CDM Coordinator, verifying the Construction Phase Plan and the competence of Designer and Principal Contractor. Confirmation of notification to HSE (F10) is required if applicable.
- Confirmation of Principal Contractor. It is a requirement that the Principal Contractor is included on HCC's approved contractors register.
- Confirmation that the Client has a Site Waste Management Plan (SWMP) in place. This only applies to schemes with a value > £300,000.
- Method Statement.
- Traffic management plan agreed with police and local Highway Unit.
- A programme of works.
- The Consultant should note that should any issues be identified during construction or the maintenance period these will need to be addressed, before the scheme can be adopted
- A POST APPROVAL MEETING HAS BEEN HELD.
- **It should be noted that construction of schemes reliant upon permanent Traffic Regulation Orders will not be permitted to commence until the relevant Orders have been 'made'**

## Recommendation on Proposals.

**APPROVAL RECOMMENDED**

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**Design Check Completed.**

17<sup>th</sup> June 2013.

**Development Control Advised by Report.**

17<sup>th</sup> June 2013.

Design Check Completed By;

signed.....

Name M Westwood

Design Check Agreed By;

Signed.....

Name S Venton

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