

John Sime & Associates Ltd

STRUCTURAL & CIVIL ENGINEERING CONSULTANTS

PROJECT B & Q Hedge End,
Southampton.

JOB No. 7972
SHEET No. SDR1

STRUCTURAL DESIGN REVIEW

1. We hereby certify that the design of this structure has been prepared by John Sime & Associates Ltd, designed and detailed to conform in all respects with the relevant recommendations and regulations in the latest British Standards and Codes of Practice as listed below:-

BS 6399 Part 1:1996 and Part 2:1997

BS 449 Part 2:1969

BS 5950 Part 1:2000

BS 5268 Part 2:2002

BS 8110 Part 1:1997

BS 5628 Part 1:2005

✓
✓

2. Structural appraisal &
adopted mechanism

Steel lintel design for proposed double door opening to front external wall.

3. Structural Materials
Steel.

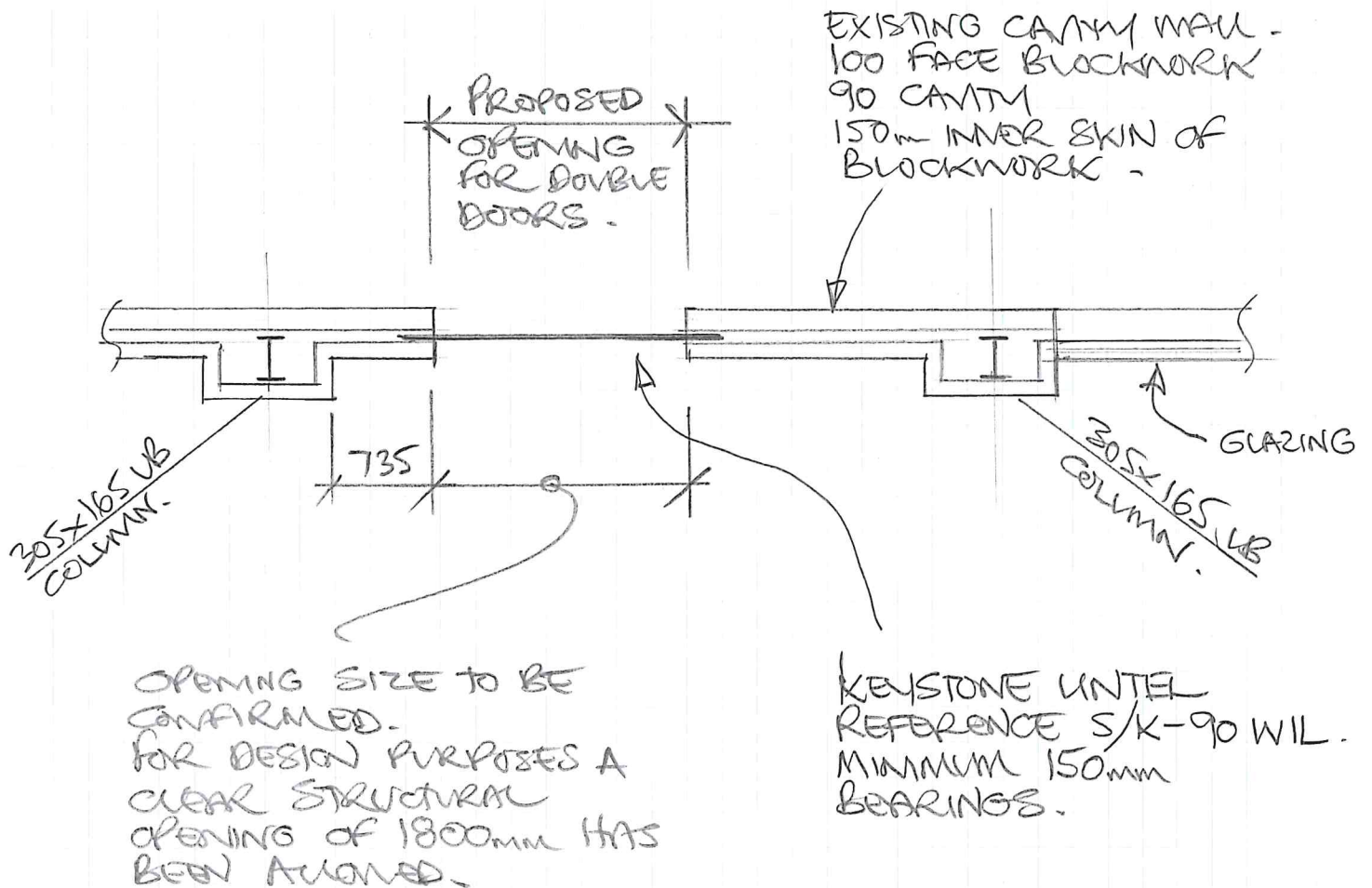
Checked By:



REF. 19 REV 3

John Sime	& ASSOCIATES LTD
57A HIGH STREET WICKFORD ESSEX SS12 9AQ	TEL 01268 560050

PROJECT B&Q HEDGE END, SOUTHAMPTON
 PART OF STRUCTURE PROPOSED DOUBLE DOOR OPENING
 JOB No. 7972 SHEET No. S/1 - CALC. BY J DATE 10/23



PART PLAN ON PROPOSED DOUBLE DOOR OPENING.

DOORS LOCATED ON FRONT EXTERNAL
WALL ADJACENT GLAZING.

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PROJECT B & Q HEDGE END, SOUTHAMPTON
 PART OF STRUCTURE PROPOSED DOUBLE DOOR OPENING.
 JOB No. 7972 SHEET No. 8/2 CALC. BY SJ DATE 10/23

LINTEL DESIGN.

100 FACING BRICKWORK
 INSULATION
 150 BRICKWORK
 DRY LINING

$$\begin{aligned}
 &= 2.00 \\
 &= 0.03 \\
 &= 2.00 \\
 &= 0.15 \\
 &\hline
 &4.18 \text{ kN/m}^2
 \end{aligned}$$

LOADING.

$$\begin{aligned}
 \text{WALL} &= 4.18 \times 0.75 \text{m} \\
 \text{E/O INNER SKIN} &= 2.0 \times 0.92 \text{m}
 \end{aligned}$$

$$\begin{aligned}
 &= 3.1 \\
 &= 1.8 \\
 &\hline
 &4.9 \text{ kN/m}
 \end{aligned}$$

$$\text{TOTAL LOAD} = 4.9 \times 2 \text{m} = 9.8 \text{ kN}$$

USE KEYSTONE LINTEL REF S/K-90 WIL.

$$\text{AVAILABLE LOAD} = 18 \text{ kN} > 9.8 \text{ kN}$$