Supplementary Information

The following information is associated with Network Rail Standard:
NR CIV/SD/102 Rev A

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CAD Drawing

- CIV/SD/102

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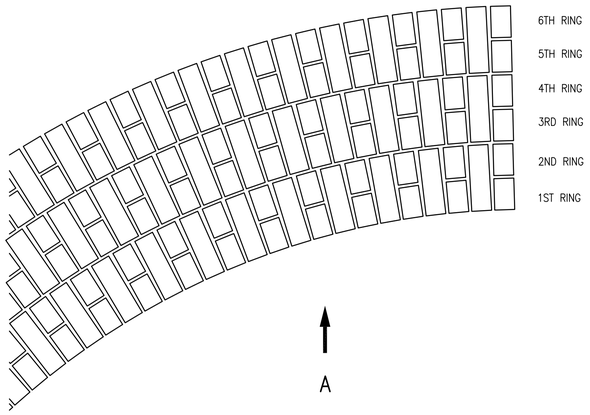
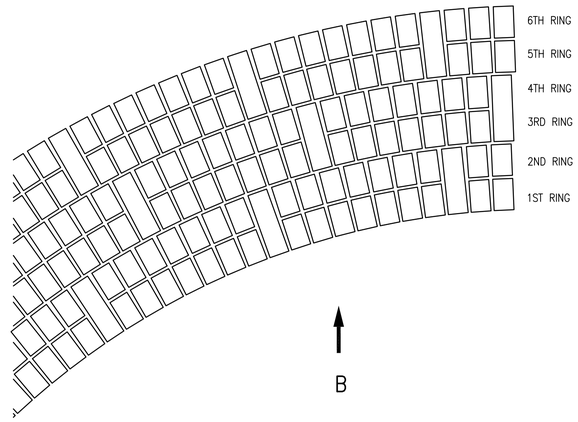
DRAWING No. NR/CIV/SD/102



LONGITUDINAL SECTION THROUGH ARCH
(6 RING ARCH SHOWN)
SCALE 1 : 10



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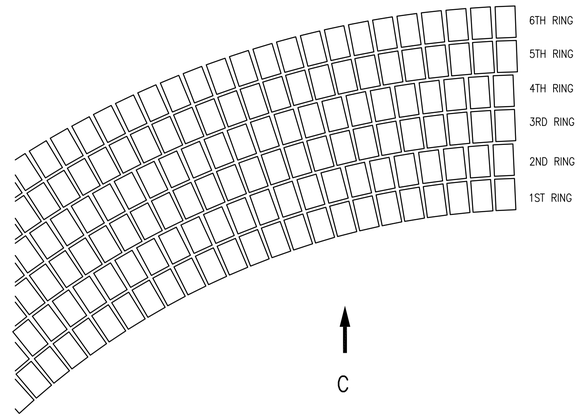

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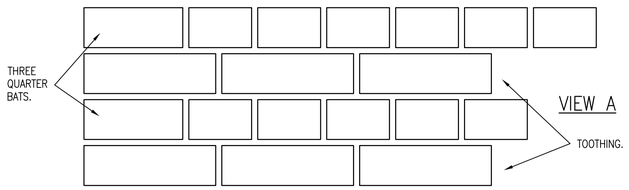
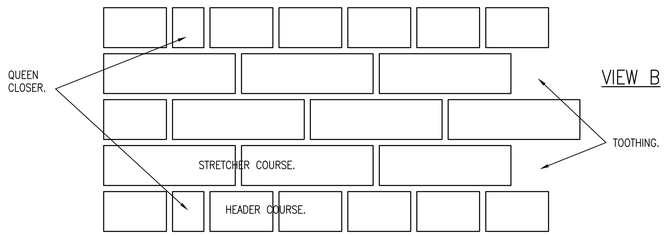


DUTCH BOND
SCALE 1 : 5



ENGLISH GARDEN WALL BOND
(REFER TO NOTE 3)
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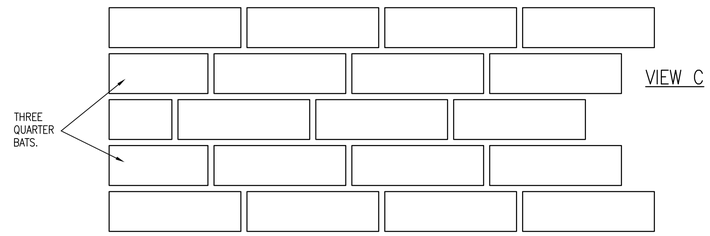
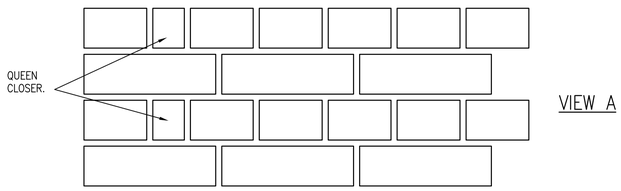


QUARTER STRETCHER BOND
SCALE 1 : 5



ENGLISH BOND
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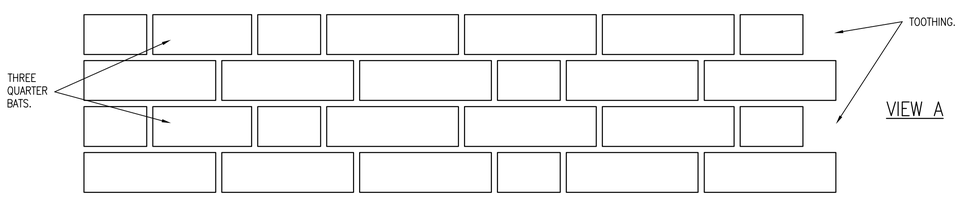

FLEMISH GARDEN WALL BOND
SCALE 1 : 5

NOTES

GENERAL

1. THE CONSTRUCTION OF LOAD BEARING ARCHES AS FOUND IN BRIDGES DIFFERS TO THAT OF TUNNEL LINING.
IN BRIDGES THE BONDING PROCESS IS METHODICALLY CONTROLLED DURING THE PLACING PROCEDURE, SETTING OUT THE BONDS TO THE CENTRE BACKING. TUNNEL LINING IS CONSTRUCTED FROM THE FACE AS AN ONGOING BUILD, MAKING THE CONTROL OF BONDS DIFFICULT TO MAINTAIN.

2. THE DUTCH, FLEMISH AND ENGLISH BOND EXAMPLES SHOW THEIR FORMATION FROM THE QUOIN OF THE WALL.

3. ENGLISH GARDEN WALL AND STRETCHER BOND ARE MORE COMMONLY FOUND IN TUNNELS. THE ENGLISH GARDEN WALL TIES ROWS OF STRETCHER COURSES BETWEEN HEADER COURSES. THESE STRETCHER COURSES MAY BE AS MANY AS 13 OR 15.

4. 6 RING ARCHES CONSTRUCTURED IN DUTCH OR ENGLISH GARDEN WALL BOND BEHAVE STRUCTUALLY AS 3 RING ARCHES DUE TO INTERLOCKING HEADERS BETWEEN ADJACENT RING ENCOURAGING COMPOSITE ACTION.

SPECIFICATION

REFER TO DRAWING NR/CIV/SD/101

INSTALLATION GUIDANCE

REFER TO DRAWING NR/CIV/SD/101 AND REFERENCED DRAWINGS.

DESIGN ASSUMPTIONS

NONE.

RISK ASSESSMENT

REFER TO DRAWING NR/CIV/SD/101

Rev	Date	Description of revision	Design'd	C'kd
A	22.06.06	FIRST ISSUE–NR APPROVED	RMA	NGAY
P3	17.03.06	REVISED FORM B.	RMA	NGAY
P2	31.01.06	FORM B ISSUE.	RMA	NGAY
P1	13.01.06	PRELIMINARY DRAFT	RMA	NGAY

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Authorised	K. TEAGER	Director of Civil Engineering	KT	08.06.06

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BRICK AND MASONRY REPAIR STANDARD DRAWINGS

STANDARD BRICKWORK BONDS

Scale	AS SHOWN	
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