



## **METHOD STATEMENT TO REMOVE THE EXISTING STEEL BEAMS INSERTED UNDER THE PREVIOUSLY FORMED BRICK ARCHES LOCATED TO THE NORTH ELEVATION OF THE EAST TRANSIT SHED**

### **Nature of the Proposal**

To advise how the steel beams are to be removed from under the original brick arches to the north elevation of the East Transit Shed, whilst retaining the brick arch and its stability during the removal of the steel beams; reinstate the new bearing of the wall at the springing point of the arch.

### **Drawings**

This method statement refers to the smaller arches in Richard Griffiths Survey 01: Proposed Façade repair (outside of central), reproduced in the Design and Access Statement, Northern Elevation of the Eastern Transit Shed, June 2009.

A copy of the AKS Ward Lister Beare engineering drawing (HO79114/ETS/12D) is attached which identifies the new support beam structure that is located behind the outer face of the brick arch.

### **Method Statement Sequence**

Before any works to remove the steel beams are commenced a method of building monitoring is to be put in place. Monitoring of the walls will be carried out regularly during the period that the alterations are being carried out. This will be followed by:

- The preparation of a scheme of temporary works which will identify how the wall is to be supported whilst the steel beams are removed.
- The Temporary Works Engineer will review the scheme of temporary support. If the temporary works are shown to follow good engineering principles, a Temporary Works Check Certificate will be issued. This will authorise the removal of the steel beams and reinstatement of the original arch bearing.
- Whilst the works are underway the Project Engineer will carry out inspections as the works progress. These inspections are to ensure that the wall maintains stability whilst the alterations are being carried out to the arch.
- All works to remove the steel beams and reinstate the original arch bearing will be carried out by operatives that are qualified and competent to do this work.
- The works will be supervised by a foreman who is competent to supervise these works.

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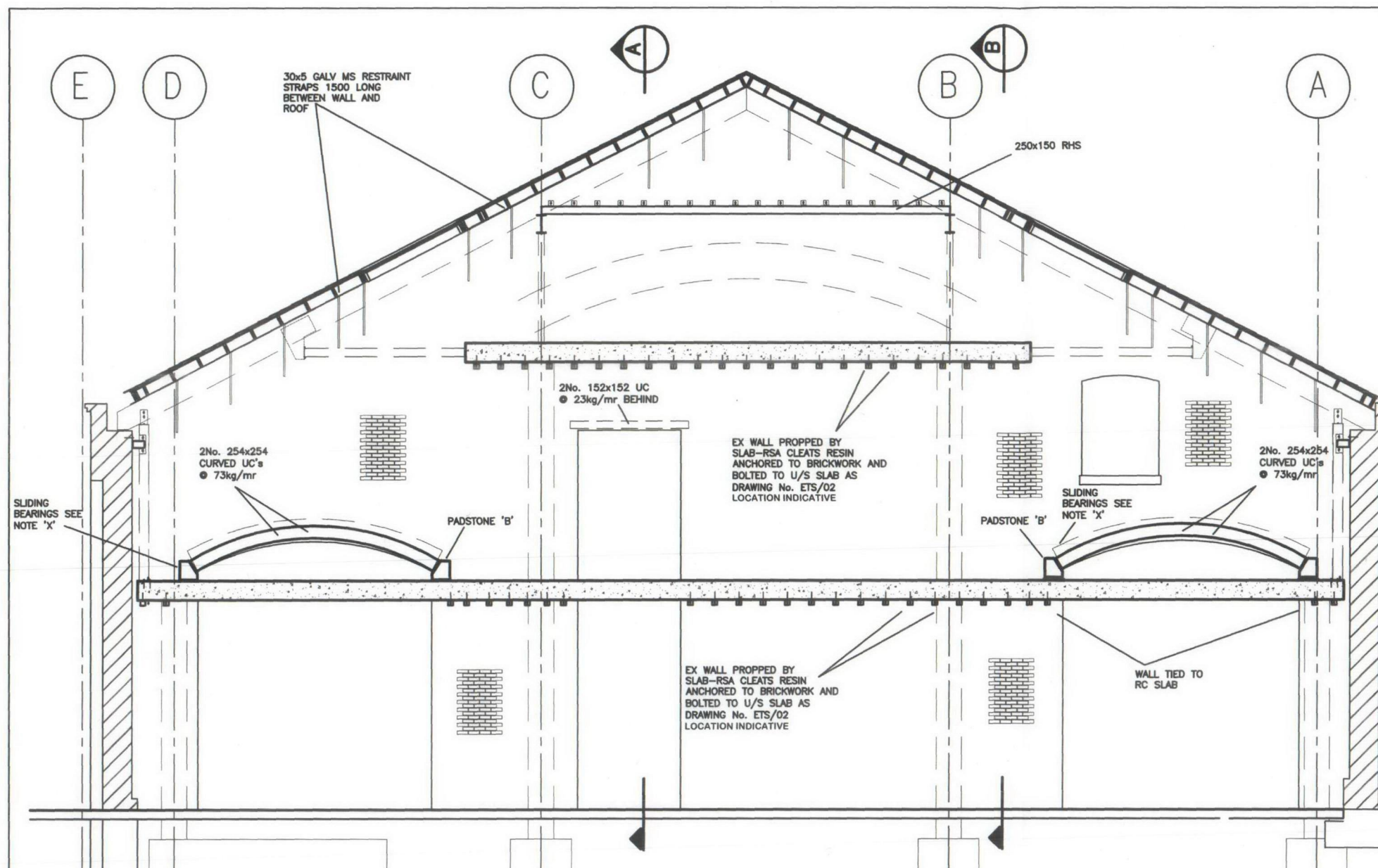
The works will consist of:

- Propping the steel beam down to ground level
- Laterally supporting the original brick arch
- Cutting out a section of the steel beam 500mm off the brick reveals
- Careful removal of the steel beams built into the brick wall
- Prepare the wall for the new concrete pad stones which will be used as bearing for the new radiused steel beams
- Carefully cut away the brick arch from the inside to retain only 225mm outer brick arch.
- Insert the new radius steel beams onto the new concrete padstones and bolt onto the padstones
- Dry pack the joint between the top of the steel arch beams and retained brick wall above.
- Allow to cure
- Carefully break out common brickwork built off the top of the steel beams under the original brick arch and clear away
- Carefully remove remaining section of steel beams
- Rake out crack mortar joints. Install Helicon steel bars and grout up in epoxy mortar.
- Resin repair cracks in bricks as described by the Structural Engineer's specification 'Repair to Cracked Bricks'.

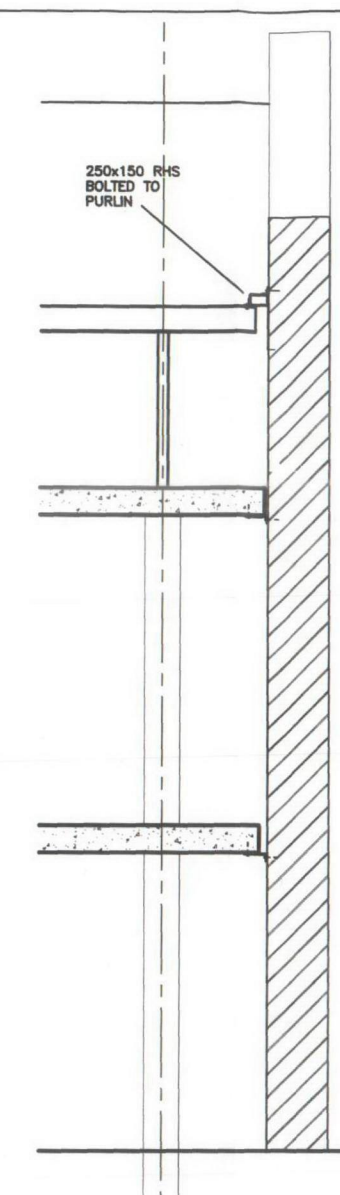
All works will be supervised by a competent supervisor.

No deviation is to be made to this method statement without it being confirmed in writing by the Construction Manager of BAM Construction.

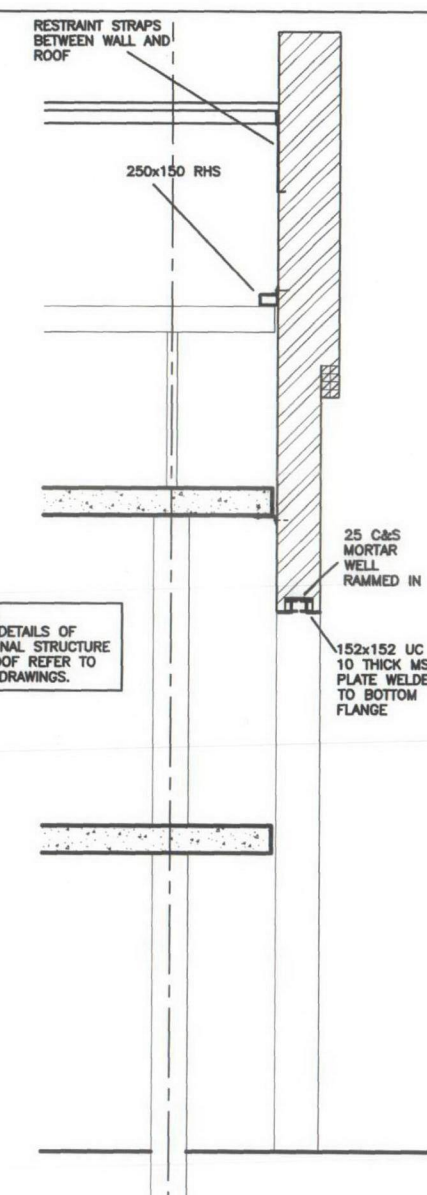
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INTERNAL ELEVATION ON GABLE



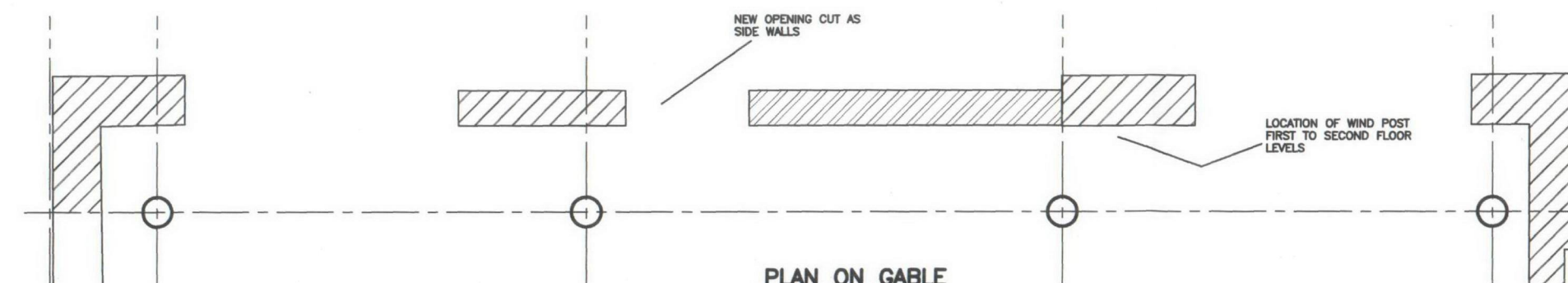
SECTION B



SECTION A

NOTE 'X'  
PADSTONES NOT TO BE BUILT  
IN UNTIL FULL DEAD LOAD  
APPLIED TO ARCH.  
ANTICIPATED HORIZONTAL  
MOVEMENT CENTRAL ARCH:  
10mm EACH SIDE.  
SIDE ARCHES: 3mm EACH  
SIDE.

NOTE  
PADSTONE 'A' 440 LONG x WALL WIDTH x SIX  
BRICK COURSES DEEP CONCRETE  
PADSTONE 'B' 330 LONG x WALL WIDTH x FIVE  
BRICK COURSES DEEP CONCRETE



PLAN ON GABLE

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FOR GENERAL NOTES  
SEE DRAWING No.  
ETS/01

DO NOT SCALE FROM THIS DRAWING

D	JF	06/09	ANGLE CLEATS RE-POSITIONED TO U/S OF SLAB. SLOT WINDOW ADDED.		
C	EW	14/4	AMENDED TO SW COMMENTS		
B	EW	1/09	SLAB RSA CLEATS AMENDED		
A	WAB	8/08	ISSUED CONSTRUCTION STATUS AMENDED TO SW COMMENTS CENTRAL ARCH SIZE REV'D		
rev	by	date	van	chkd	amendments



key plan



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computer sheet  
name

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Project  
**ARGENT ESTATES LTD.**  
**EGY KINGS CROSS**

Contract No: 1  
EASTERN TRANSIT SHED  
NORTH GABLE: DESIGN DRAWING

drawing status	CONSTRUCTION
contract no.	H079114
scale	1:50 UNO @ A1
client ref.	Argent Ltd.
date	11/07
drawn by	WAB
checked by	WAB
drawing no.	H079114
ETS/12	/ D