

Cemetery Junction Arch – Reading

METHOD STATEMENT

JOB TITLE: Cemetery Junction Arch -Reading
Stone cleaning, conservation and replacement stone and repairs

JOB #: 2 4 1 7 6

CLIENT:

MS REV: 01

SITE ADDRESS:
Reading Old Cemetery
London Road
Reading RG1 4LS

**CONTRACT/
ORDER:**

START DATE: November 2024

FINISH DATE: Feb 2024

TELEPHONE:

WORKING HOURS: 8.00 – 16:30

WORKS LOCATION: High Bridge Reading, road level parapet both sides.

SCOPE OF WORKS: Stone cleaning, conservation and replacement stone and repairs

EMERGENCY CONTACT:	Name:	Contact Number:
RESPONSIBLE PERSON:	Amelia Morrison	07906 831033
PROJECT MANAGER:	David Bloxam	01628 604721
FIRST AIDER:	Amelia Morrison (for CCW)	07906 831033
FIRST AID BOX LOCATION:	Within site compound	
PERMITS REQUIRED:	N/A	
RESOURCES REQUIRED:	Stone Masons/Labourers	Qualification required, to be shown at induction: CSCS cards, SMSTS Certs, SSSTS Certs. PASMA. ASBESTOS AWARENESS Certs, Face fit records.

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jockey.

MATERIALS: Bath Stone. NHL 3.5, Lime putty silver sand,
Portland stone dust, epoxy washed sand.
resin.

PPE: 6 Point. High Visibility vest & trousers, Gloves, Steel -Toed Boots, Hard Hat, Eye Protection, Dust Mask,

TEMPORARY WORKS: N/A

METHOD OF ACCESS/ EGRESS: Via external scaffold.

FALL PROTECTION MEASURES: Provided by access scaffold

LIFTING OPERATIONS: Assisted lifting using lifting gantry, scissor/pump up trolley; Teflon sliders, crow bars and straps/slings. Block and tackle on a running beam attached to scaffold. Fixing of running beam to scaffold by trained scaffolders.

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MANUAL HANDLING: Kinetic techniques, Kinetic lifting methods: two-man lifting using assistance as required.

Average size of stone being handled
= $0.559 \times 0.305 \times 0.305 = 114\text{KG./2} =$
57KG (Please see enclosed Risk
Assessment for handling stone.

HAZARDOUS SUBSTANCES: (Attach COSHH Assessments)							
TYPE:	Very Toxic	Harmful /Irritant	Corrosive	Dangerous to the Environment	Oxidising	Highly Flammable	Explosive
APPLICABLE:	N	Y	N	N	N	N	N
ATTACHED APPENDICES:							
Safety Risk Assessment							Y
Environmental Risk Assessment- (By MC)							N
Permits – Hot Works by MC							N
Drawings							N
Sub-contract method statements and risk assessments TBC							Y
Emergency Procedures							N
Lift Plan							N
COSHH sheets							Y
ADDITIONAL NOTES:							

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- FIXINGS: FIXINGS TO BE USED WILL VARY ACCORDING TO THE NATURE OF THE STONE TO BE FIXED. EG STUD FIXINGS ON SLOPING SURFACES TO STOP STONES SLIDING; HORIZONTAL DOWELS AND L BRACKETS ON FLAT BEDS.
 - ALL FIXINGS WILL BE STAINLESS STEEL FIXED WITH 2 PART EPOXY RESIN
 - THE EXISTING STONE MAY NOT HAVE BEEN FIXED WITH ANY CRAMPS; IT MAY BE PURELY STRUCTURED UNDER COMPRESSION.
 - REPLACEMENT STONE WILL BE ORDERED IN IDENTICAL DIMENSIONS.
 - PLEASE NOTE THAT THE SUBSTRATE IS MADE UP OF A SINGLE SKIN ASHLAR, SO FIXING TO THE TOP OR BOTTOM BED MAY NOT BE ADVISABLE.
 - ALL DOWELL FIXINGS WILL BE EITHER 12MM OR 16MM S/S STEEL DOWEL OR PRE-MADE S/S THREADED BOLTS
 - THE L BRACKETS ARE 4MM X 200MM X 50MM S/S.
 - ANY/ ALL PLATE/ BRACKET FIXINGS WILL BE REBATED INTO THE SUBSTRATE AND FIXED WITH APPROVED HEX HEAD BOLTS.
 - ALL BOLT FIXINGS WILL BE NO SMALLER THAN 50MM IN LENGTH AND WHERE REQUIRED, ON SLOPING BEDS, WILL BE 100-150MM IN LENGTH.
 - THEY WILL BE EMBEDDED IN EPOXY LIQUID MORTAR RESIN AS SPECIFIED.

N.B: THIS IS A NO DUST SITE; ANGLE GRINDERS AND PALM SANDERS WILL ONLY BE USED IN CONJUNCTION WITH APPROPRIATE DUST EXTRACTION ACCESSORIES. ANY MODIFICATION OF PRE-WORKED STONES WILL BE EXECUTED AT CCW WORKSHOP USING APPROPRIATE DUST EXTRACTING EQUIPMENT.

TOOLS PERMITTED ON THE SCAFFOLD INCLUDE: BATTERY DRILLS; BATTERY SKILL TOOLS. 110V DUST EXTRACTOR OR THE HILTI 32AMP DUST EXTRACTOR: NB 32AMP WILL REQUIRE SPECIFIC LEADS FOR CONNECTION TO SITE BOXES. 32 AMP SPLITTERS SHOULD BE AVAILABLE ON SITE.

BATTERY PALM SANDERS; HAND SAWS AND GENERAL HAND CHISELS AND DRAGS; WHEN NECESSARY, CLASS M VACUUM CLEANERS WILL BE AVAILABLE FOR USE TO CATCH DUST IF REQUIRED BUT THIS SCENARIO IS TO BE AVOIDED IF POSSIBLE.

THIS IS TO BE READ IN CONJUNCTION WITH MOVING STONE ON SITE RAMS AND THE LIFT PLAN

WORK ACTIVITY:

SCHEDULED START DATE:	DURATION:	REFERENCE:
25 th November	12 weeks	24176

METHOD STATEMENT:

Prior to Commencement of Works:

- Organise stone and mortar samples (biscuits) for client approval.
- Site Visit – assess work areas, logistics, transport etc.
- Internal Pre start Meeting – Organise resources, transport, labour and logistics.

Work Procedure 1: Setting up work areas

- Team Briefing: On works, roles and responsibilities, H&S and site rules.

Work Procedure 2: Cleaning Works

- Protect surrounding areas where necessary with polythene.
- Set up all equipment and barrier or tape off around the machinery. Drip trays/nappies under diesel pump and fuel dump.
- Use cable/hose mats where hoses cross roadway.
- Full PPE must be worn including gauntlet gloves.
- Carry out cleaning using different temperatures, nozzle distances and steam pressure dependent on level of soiling as detailed in attached restorative techniques guidance.
- Careful removal of hard calcification by means of hand tools.
- Bag up all debris arising from the works and cart away to skips.

Work Procedure 2: Stone Fixing Methodology

- Mark up areas to be removed and template, recording all details, dimensions etc.
- Carefully cut out damaged stonework by hand using chisels and hand tools exposing the rusting pintles. Diamond bladed 5in Grinders to be used where necessary for cutting out masonry, dust to be controlled with a combination of dampening down and dust extraction. Clean up all debris.
- Once gates and pintles removed by others cut out extent of damaged stonework back to sound and stable stone, and create suitable dovetailed pocket in the stonework.
- Following installation of new pintles by others measure new stone indent using original template and cut and dress new stone indent at CCW workshop.
- Consolidate extant masonry/bed using a mixture of grouting and re-pointing/packing techniques.
- Offer up template of stone to check item to be fixed fits the space.
- Ensure all joints and beds are flat, square and free of debris.
- Using mechanical fixings locate and prepare the holes/ slots by drilling using either diamond core drill bits or sharp masonry bits; avoid, wherever possible, using hammer action.
- Wherever possible prefix one end of dowel/ stud.
- Only use approved 2 – part epoxy resins: Not Polyester resins.
- Dry fix stone to ensure a close and even fit prior to applying/ buttering up with mortar.
- Assess the size/ depth of bed and use an appropriate bedding mix.: where the bed is greater than 5mm use a sharp sand and stone dust mix; where the bed is between 3mm-5mm use a sieved fine sand aggregate; where the bed is narrower than 3mm use a lime putty and stone dust mix without any other aggregate.
- Mortar Mix: Course (bedding): 1 part NHL 3.5 1-part Bath stone dust 2-parts sharp sand
- Pointing 1-part NHL: 3.5 1-part Bath stone Dust, 2 parts Silver sand.
- Pointing (less than 3mm): 1-part lime putty 1 part silver sand 1 part stone dust

- Butter up the relevant joints and beds; having first thoroughly wetted the substrate of the existing masonry and the block to be fixed.
- Ensure that all beds/joints and planes are true using straight edges and levels.
- Using a combination of packers/ bearers/ slate/ lead position the block.
- If using wooden bearers pre-soak before fixing.
- Pack in bedding mix as required ensuring all joints and beds are thoroughly filled. Use slate fragments to push mortar into deeper beds and joints.
- Rake back prior to final pointing with approved pointing mix.
- Tend mortar at close of day and first thing following day to ensure carbonation process occurs.
- Dry brush any residual lime snots and stains.
- Sponge off any residue carefully working sponge in towards the bed/ joint.

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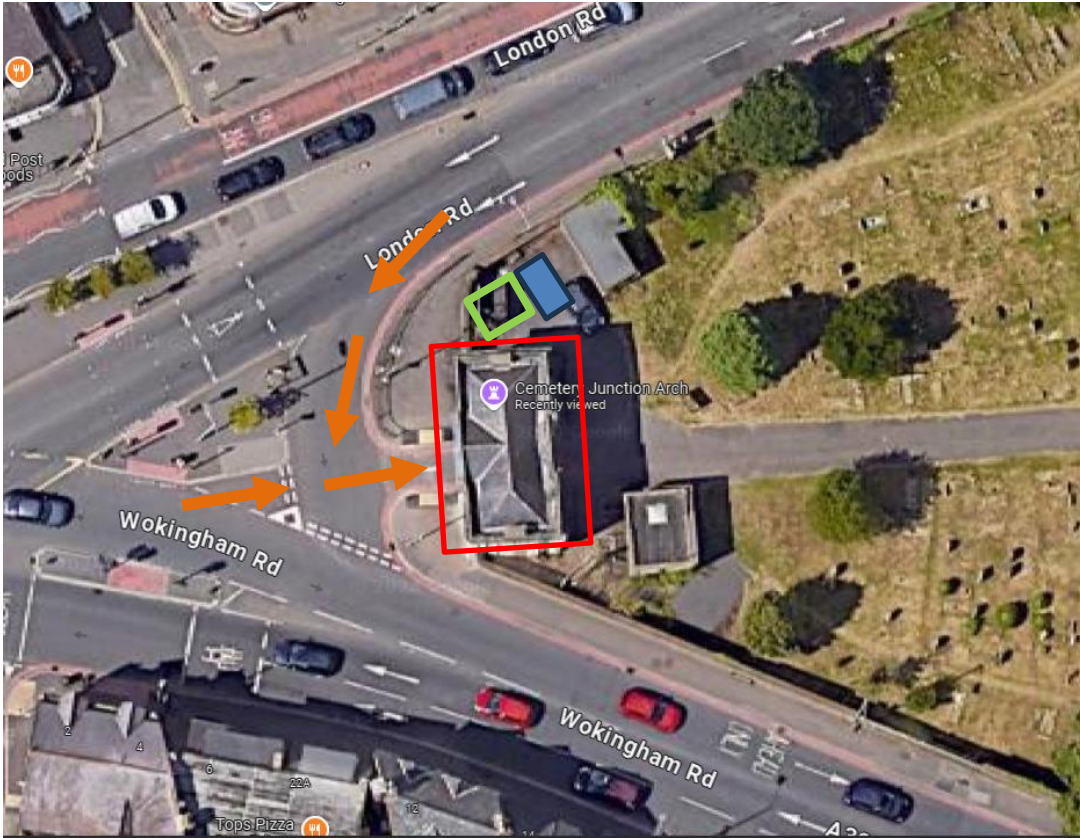
Management Arrangements for Undertaking the Works:

- Project Manager – David Bloxam
- Onsite Masonry Foreman – Amelia Morrison

Emergency Arrangements Including Contact Details:

- Nearest Hospital –
Royal Berkshire Hospital
Craven Road
Reading RG1 5AN
Tel: 999 or 0118 322 5111

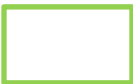
Site Plan:



Site Perimeter



Entrance



Parking



Welfare Unit

Describe how the safe system of work will be communicated to those undertaking the activity and any others needing to be informed:

- Information and RAMS shared digitally prior to commencing works with all operatives.
- Induction on site by M/C
- Tool box talk with operatives prior to commencing works.
- Works are carried out by trained and competent personnel
- Site visit from management supervisor

METHOD PRODUCED BY:	SIGNED:	DATE SUBMITTED:
David Bloxam	DVB	6/11/24

METHOD REVIEWED BY:	SIGNED:
This method statement is (circle):	A) Accepted
	B) Accepted with the following comments
	C) Rejected – see attached checklist for reasons for rejection

SIGNED:	DATE:	DATE RETURNED TO CONTRACTOR:
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