Project Address:

The Kings College Campus on Kidderpore Avenue, Hampstead, London, NW3 7ST

METHOD STATEMENT FOR Portico dismantle, storage & reassembly

OBJECTIVE

To carefully dismantle stone portico, remove to safe storage area & reassemble in the existing position by July 2017.

METHOD OF WORKS

Erect scaffolding to allow full clear access to all parts of the portico. There will be a handrail fitted to the perimeter of the top lift. The top lift position will be just below the column capitals which will also incorporate a crash deck to prevent stones or operatives accidentally falling through the roof structure (see appendix A – Sketches)

Prior to any deconstruction works carry out a full photographic survey of each individual stone & record all positions, protrusions, joint width, existing visible damage, etc.

Carefully remove the ceiling to the underside of the portico to expose the underlying timber structure.

Carry out a photographic survey of the timber & record all positions, sizes, etc.

Working from the top down, remove all loose & soft pointing material using suitably sized chisels & picks. Where pointing is too hard or mechanical fixings are found, these will be cut through using an angle grinder fitted with a diamond blade. Care will be taken to ensure that no stonework is cut or damaged during this process.

Once a stone is fully isolated from its neighbours it will then be carefully lifted away from the working area making use of the running beam & hoist. The stone will be lowered to the ground & an indelible identification mark will be given to the stone showing location & alignment, the mark will also be transferred to a drawing to assist with the later reconstruction.

Any stones that are beyond repair will, at this stage, be measured & annotated on the drawing for replacement.

Works will be carried out course by course & all removal works will be completed to each course before the masons move to the lower course.

All stones will be wrapped in a geotextile material prior to being wrapped in bubble wrap & finally being palletised for removal from site to Barwins secure storage facility.

The palletised stones will be collected from site by use of a 7.5 tonne lorry fitted with a Hiab hoist & delivered to Barwins secure storage area.

Once the stones are at Barwins secure storage area each stone will carefully be unwrapped &

all remaining pointing material & any mechanical fixings will be removed, no repairs will be carried out at this stage.
Any stones that Barwin feel are beyond repair will be identified & details will be forwarded to the client & the Historic England representative for conformation that the stone should be replaced or a suggested repair detail.
Any stones identified for replacement will be repacked & transported to the mason's yard so that the stones can be recut from stones matching the existing texture, alignment & colour as closely as possible.
Once the new area is ready Barwin will transport the stones, again wrapped in geotextile material & bubble wrap, back to site ensuring that they are delivered in a "just in time" fashion to avoid stored stones being damaged on site.
Using the annotated drawings, the stones will be reassembled using new stainless steel fixings where required.
The pointing will be carried out using a stone dust, fine chippings & lime mortar.
All proposed repairs will be discussed with the client, LBC & Historic England's representative to establish the preferred repair strategy for each listed repair area.
Any required repairs will be carried out at this stage using one of the methods listed below and all in agreement with LBC & Historic England:

Stone indent repair

a. Carefully cut existing damaged stonework back to a minimum depth of 30mm or to sound stone.
b. Drill and Dowel (Stainless Steel) Resin fixed into existing stone either into repaired stone or adjacent stones.
c. Supply and fix new profiled stone to repair area fixed onto the previously fixed dowels (resin fixed)
d. Point joints in stone dust, fine chippings & lime mortar to match existing.

Stone mortar repair

a. Identify area of repair.
b. Cut back damaged area of stonework to be repaired to a stable sound core and cut edges square or dovetail to allow for connection of future repair
c. Wash down repair with cold clean water to remove all dust and debris.
d. Stainless steel dowels or pins, length to suit repair depth or width will be drilled and fixed with resin into existing façade or adjoining stonework to support any repairs exceeding 45mm in depth. The dowels would be fixed by a method of resin bonding.
e. Reform stonework detail applying a reconstituted lime stone mix to suit and SBR Bonding agent to bond between coats not exceeding 25mm in any one coat, each layer / coat should be cured before applying the next.
f. Build out in coats to match existing profiles and detail and finish with a wooden float and small tools.

ACCESS
Main Scaffold

GENERAL PROTECTION

Crash deck installed below the roof structure.
Timber boards on the ground below the working area.

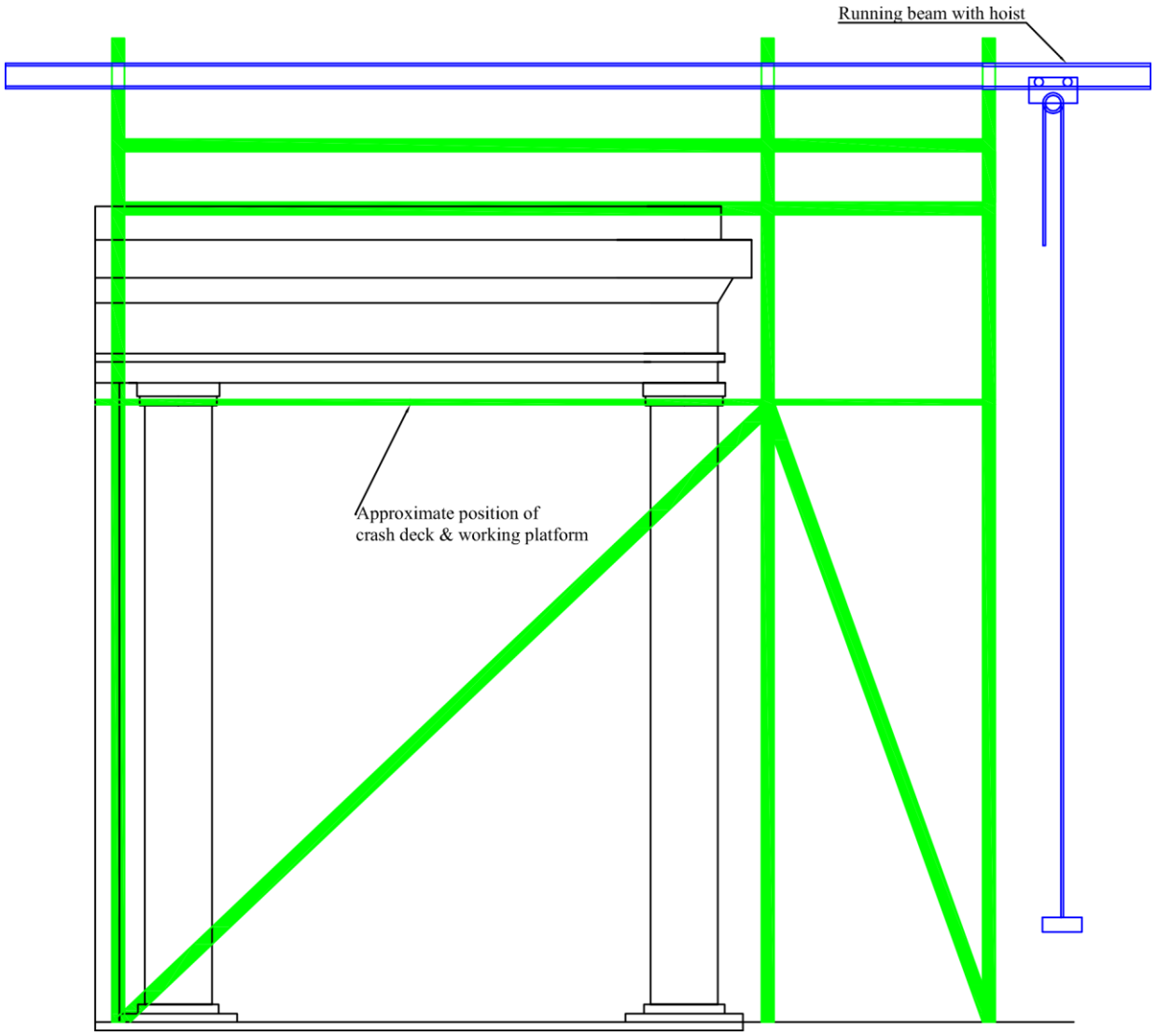
PPE

Gloves	Goggles
Hard Hats	Steel Toe Capped Boots
Masks	High visibility Jackets/vest

PLANT

9" and 4" Angle Grinder	110V Leads
110V Breaker	Spot boards for mortar
500kg Hoist	

Prepared by: **Martin Hill**	*Method Statement for:* **Portico dismantle, storage & reassembly**	*Issue:* **1**
Approved by: **Wayne Sampson**	*Date:* 16.06.16	*Page:* **3 of 2**



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Unit 2, Saxon House
Upminster Trading Park
Warley Street, Upminster
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Kiddepore Ave - Portico
Outline scaffold sketch

Date: 16.06.16	Drawn: Martin Hill
Drawing No: 002	Scale: Do not scale