

Project: Renaissance Project				Project No:		L20081			
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Subject: Renaissance Project – Structural Method Statement for Victoria Bridge LBC – Rev B

If you do not receive all pages, or some are unclear, please advise immediately

1 INTRODUCTION

This Structural Method Statement is regarding the proposed basement construction works to be undertaken for the Renaissance Project in Manchester in proximity to the Grade II Listed Victoria Street Bridge.

The works include demolition of the existing basement and construction of the new basement and retaining wall for the proposed Residential Tower structure.

This should be read in conjunction with the provided Architectural Drawings

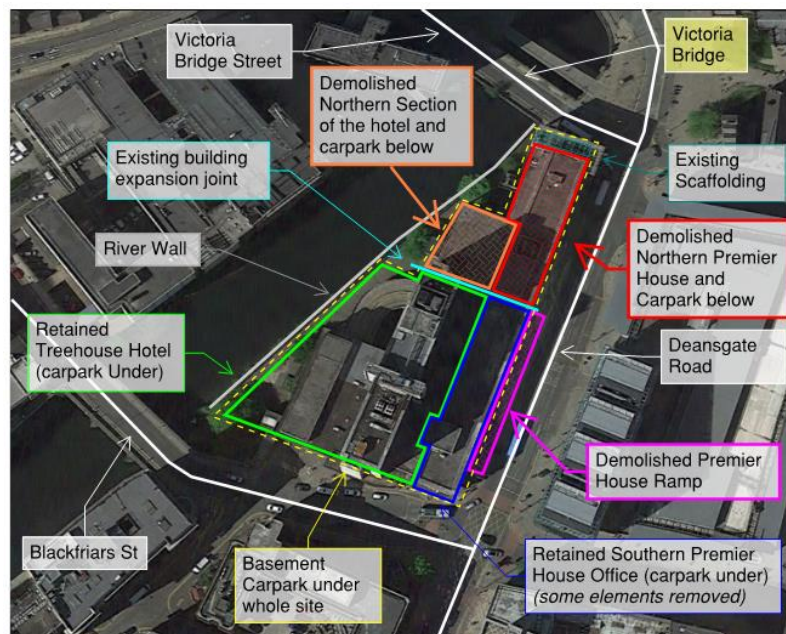


Figure 1: Plan of Existing Site and Description of Demolition (Google Earth 2018)

2 DEMOLITION OF EXISTING STRUCTURE

The existing carpark structure consists of a two-level reinforced concrete retaining wall with attached slabs and columns. The retaining wall extends close to the river wall line, terminating just before in-line with the existing Victoria Bridge Stone Abutment Walls.

In the permanent design this existing basement retaining wall will remain, with new structure constructed in front of it. This will provide a layer of existing structure at the interface between the bridge abutments and the new structure limiting any potential impact on Victoria Bridge.

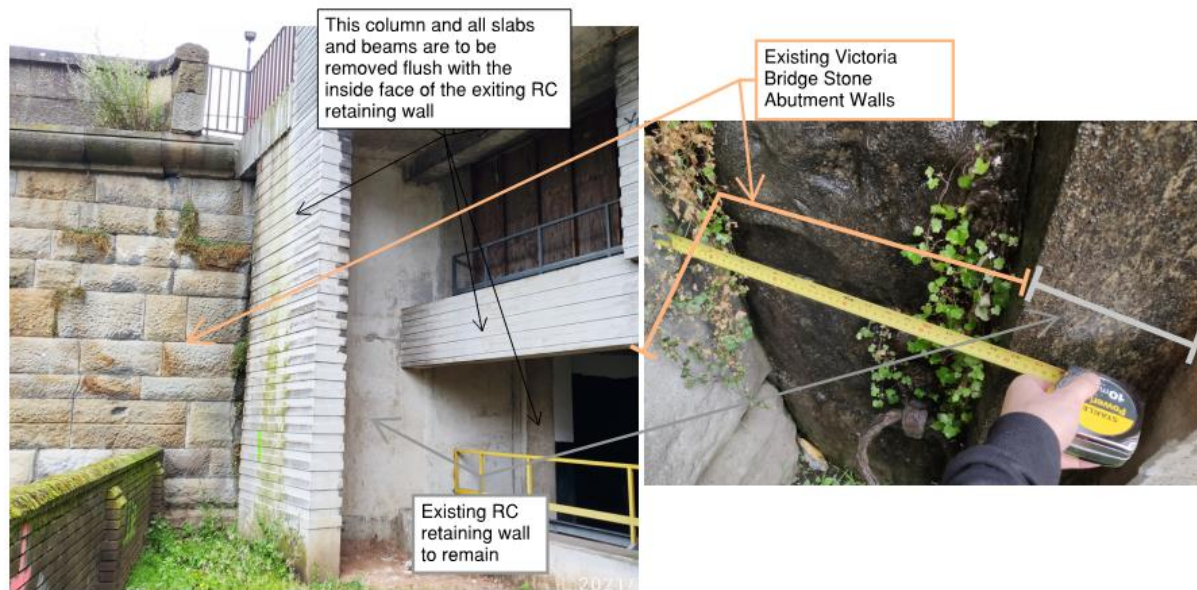


Figure 2: Existing Structure and Existing RC wall to be retained

The reinforced carpark structure, including slabs, beams and column thickenings attached to the retaining wall are to be cut flush to the inside face of the wall and removed.

This will be undertaken using a staged temporary propping sequence to limit movement of the wall retaining Victoria Bridge Street.

3 MONITORING

The carpark retaining wall, Victoria Bridge Street pavement and Victoria Bridge stone abutment and arch will be spot surveyed before and during the demolition and the new construction works to ensure that movements are within acceptable limits. If movements are observed to be moving higher than works will stop and additional propping or similar provided depending on what is being observed.

A vibration monitor will be located close to the Victoria Bridge abutment and monitored during the demolition works. Demolition of the basement will occur away from the bridge at first and move towards it so that any increase in vibrations can be observed. If vibrations look like they will increase beyond acceptable limits, then the demolition methodology closer to the bridge will be altered to a low vibration method such as saw cutting.

The details of the monitoring and propping requirements are being discussed through an Approval In Process (AIP) and Design Check by Salford City Council who are responsible for maintenance of the bridge.

4 NEW STRUCTURE

In proximity to Victoria Bridge a new concrete retaining wall will be constructed in-front of the retained concrete retaining wall. This new retaining wall's riverside most edge will be flush with the edge of the existing concrete wall so as to ensure visibility of the listed bridge. This will provide the layer of existing structure at the interface between the bridge abutments and the new structure limiting any potential impact on Victoria Bridge. The steelwork supporting the new deck structures will be supported entirely off this new RC retaining wall.

Refer to Figure 3 on the next page.

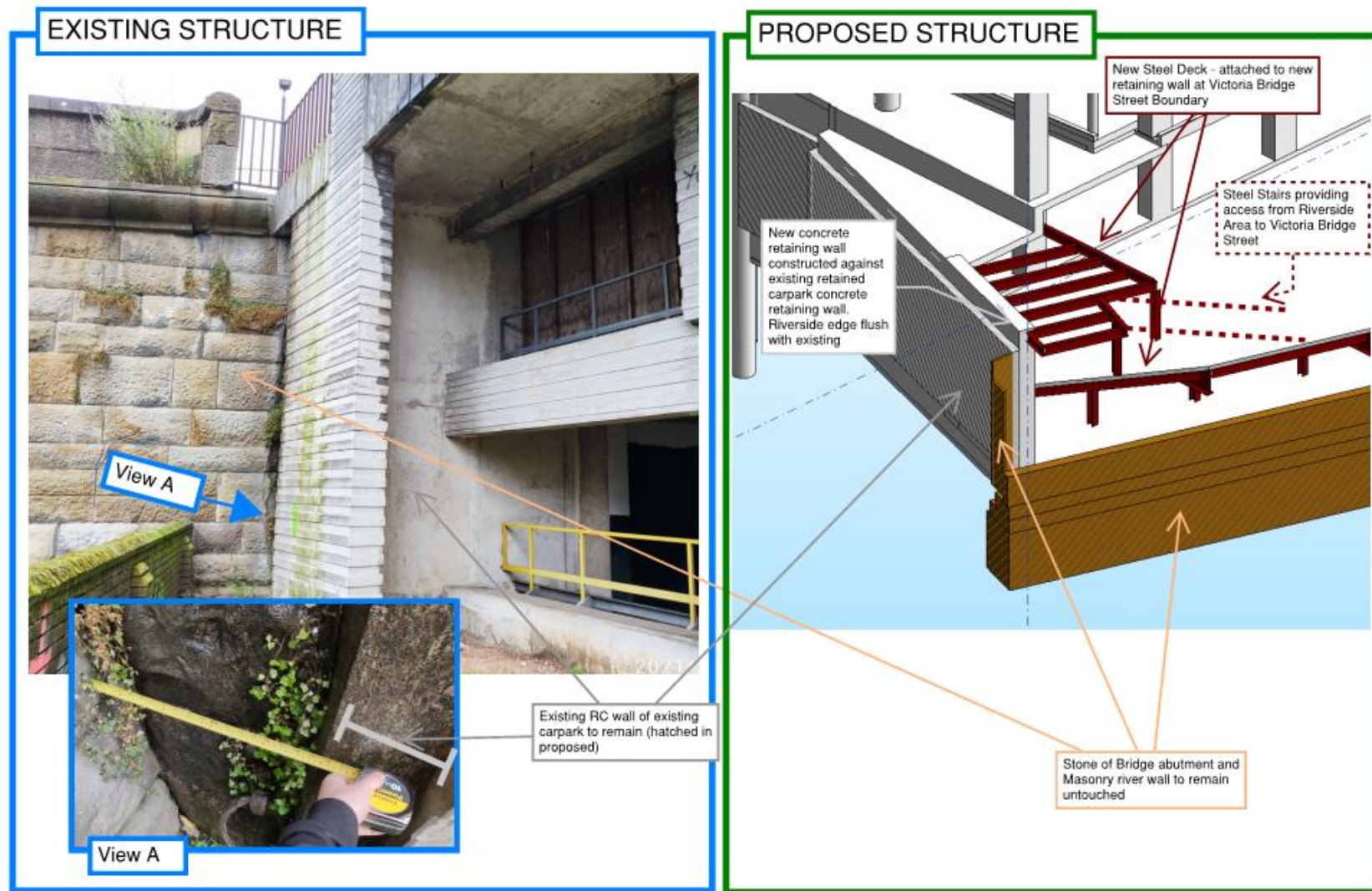


Figure 3: Proposed Structure and Existing Structure