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# MEMORANDUM

DATE:	2019-10-20	RWDI REFERENCE #: 1803827
то:	Neal Hunter	EMAIL: neal@greatgeorgestreet.co.uk
FROM:	Krishan Jayyaratnam David Hamlyn	Email: krishan.jayyaratnam@rwdi.com  David.hamlyn@rwdi.com
RE:	Wind Microclimate Statement of Conformity – Landscaping Review	

Dear Neal,

#### **Introduction**

RWDI was retained to carry out a Pedestrian Level Desk Based Wind Microclimate Study on the proposed Great George Street development (hereafter referred to as the "Proposed Development") in Liverpool in September 2018. That assessment found that in some areas around the proposed development, the local wind environment would be too windy for comfortable pedestrian use and would exceed the threshold for pedestrian safety.

In the time since that assessment was conducted, a landscaping strategy (See landscape plan PL-1822-VW-002) has been developed to address these safety concerns. This document will review these amendments with regard to highlighted safety exceedances and any benefit to predicted comfort issues. All other areas which would require mitigation in regard to pedestrian comfort as stated in the 2018 wind assessment would remain unchanged and all safety concerns have been addressed with the proposed landscaping set within plan PL-1822-VW-002.

## **Expected Wind Microclimate - 2018**

The main areas which were expected to exceed the threshold for pedestrian safety were in the thoroughfare spaces between Phase 1 and Block 2A and between Block 2B and 3A.

## **Proposed Landscaping Scheme**

The proposed landscaping scheme is attached in Figure 1. This landscaping scheme incorporated varied height trees/shrubs and porous screening throughout the Site, with focus on the thoroughfare spaces between Phase 1 and Block 2A and between Block 2B and 3A. Key features in these areas consist of:



- Pine trees 6m high; and
- Wind baffles (porous 50% screens) 1.5m high and 2-3m long.

These features are expected to eliminate strong wind exceedances in these areas and reduce wind speeds in general, resulting in a mix of strolling and walking wind conditions which would be suitable for the intended use of these areas.

With the proposed landscaping in place, all entrances to the Proposed Development would be expected to be suitable for the intended use.

Amenity spaces located in the Commercial Event Space, Commercial Podium Garden, Podium Garden and Residential Podium would be suitable for the intended use with the proposed landscaping in place.

## **Additional External Terrace Space**

There is an additional terrace space located on Block 2B at level 02. Although this terrace is located in an area which was expected to have strong wind exceedances, the design of this terrace will include a 1.5m high solid balustrade with localised features around seating areas. These features are expected to eliminate any strong winds in this terrace.

#### Conclusion

The 2018 wind assessment highlighted areas where wind speeds would be expected to exceed the safety threshold. Subsequently, the proposed landscaping scheme has been reviewed and is expected to eliminate strong winds in these areas. Furthermore, the landscaping scheme is expected to provide some shelter to nearby entrances and amenity spaces which were highlighted as having comfort issues in the original 2018 wind assessment.

Yours truly,

Krishan Jayyaratnam, C.Eng Project Engineer David Hamlyn, C.Eng Senior Engineer / Project Manager





