Chartered Civil Engineer

Advice

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Re: Lower Ground Floor, 9 St. George's Terrace, London NW1 9XH

there has been a detailed site investigation by Chelmer Consulting Service, evaluation of the used for groundwater, earth pressures and retaining pressures to be considered and used variable nature of the garden soil and recommendations for the design parameters The proposal is for a lower ground floor extension under the garden at the property for which ð

skins that can be seen against the Mews. ground being nearly a storey height against the rear wall of the Mews properties behind significantly below the existing Lower Ground Floor of the main terraced property, the made underpinning of the Mews rear wall is not of significant height and requires only normal of penetrating damp which has clearly been a past problem from the added brick and block foundations being into weathered London Clay, but overall the excavation will not be construction methods The removal of this will eliminate the present earth pressure on these properties and the risk The ground to be excavated is substantially made ground with the base slab and Because of the depth of this made ground, the

prestressing is incorporated to effectively eliminate the risk of ground movement affecting the downslope side to ensure stiffness and together with the steel capping on each side the roof deck and ground floor as structural props across the site and using steel posts on the adjoining gardens levels of ground across the rear gardens. The Chelmer Report (the Report) draws particular attention to the cross slope and different This has been taken account of by incorporating

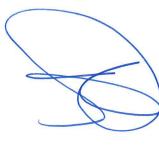
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50% increase adopted in the design is conservative coefficient, The Report in discussing design earth pressures advocates an 'increased earth pressure to allow for the slope to the west of the lower ground floor extension's walls.' The

floor slab, but acknowledges the possibility of providing weepholes and drainage to deal with ground floor is not rigidly attached at the edges to isolate against upward forces on the Party practice in circumstances were foundations are at depth below the ground, and the concrete penetration and uplift on the ground slab which is also suspended as is advised NHBC Report also gives recommendations with respect to water pressures on the walls and A full drainage membrane is detailed to minimise water pressures, risk of damp good

as a normal consequence of service trenches existing provision through drainage to the lower front of the property as 'channelled flow' as identified incorporated under the new floor, storage capacity for rainwater runoff and soakaway runoff from the roof garden is as recommended to the rear courtyard and in the design and it increase into the public sewage system and so not an increased risk of storm flooding. An evaluation of the existing hard surfacing and the proposed is that there is not a nett is noted that the Suds evaluation as a planning condition was set aside. But there is

on a concrete strip footing owner in anticipation of the lowering of the garden and a trial pit has verified its construction rebuilt boundary garden wall on the downslope side. wholly external to the existing building, with the only construction under being under the Report refers to this development as a 'garden extension', not a basement because it is This wall was rebuilt by the present



rear in short lengths with the ground to the sides of the Adjoining Properties being proposed is as normal for open ground excavation and tunnelling, it proceeding towards the progressively propped and secured with the permanent structure as a frame without the need for elaborate temporary works and subsequent transfer of loads to permanent The form of construction using precast materials and steel posts, and method of installation

dated 14 June 2018 sets out, as required, the steps taken to incorporate the detailed clauses (ii)-(vi) with respect to the design. measures set out in The Agreement at 2.9 Detailed Basement Construction Plan subconfirm that: 1. The Detailed Basement Construction Plan prepared by Ecos Maclean Ltd,

- required by sub-clause (vii) of The Agreement (Chertsey) Ltd sets out the measures for ameliorating and monitoring construction traffic as The Construction Management Plan prepared by the Contractor, MK Contracting
- required by sub-clause (1) of The Agreement prepare detailed structural appraisals and conditions survey of all Adjoining Properties as The Building Owner and the Adjoining Owners have appointed Party Wall Surveyors to

Signed

Röger Gulhane CEng.MICE

ad 22 ml June 2018

Chartered civil engineer

Appointed "Certifying Engineer" As Approved LB Camden