

**London**  
The Building Society  
55 Whitfield Street  
London  
W1T 4AH  
+44 207 499 5888

**Wimbledon**  
The Building Society  
241 The Broadway  
London  
SW19 1SD  
+44 208 544 0033

**Nottingham**  
1 Sampsons Yard  
Halifax Place  
Nottingham  
NG1 1QN  
+44 870 460 0061

elliottwood.co.uk  
thebuildingsociety.org

@elliottwood\_partnership  
@the\_building\_society

**18—11—2022**

**22 Kemplay Road -  
Foundation and  
Surface Water  
Strategy**

Sophie George  
SG Architecture Ltd  
60 Ravenswood Avenue  
Tunbridge Wells  
Kent, TN2 3SQ

To Sophie,

The attached drawing outlines the structural and surface water strategy at 22 Kemplay road, relating to the implications of lowering the floor level throughout the lowerground floor.

Internally, the existing suspended timber floor with vented void below will be removed and replaced with a suspended reinforced concrete slab at lower level. Trial pits around the perimeter of the building have been dug to establish the depth of the existing foundations to the masonry party walls. The new structure will not be constructed any lower than the existing foundations. With this we have shown that at no point during the installation of the new slab the existing foundations will be undermined, and the structural integrity of the parent and neighbouring buildings will be maintained.

Externally, lowering the ground levels to the rear will mean the existing masonry garden party walls will need to be underpinned and a new retaining wall placed in front. Please see attached drawing for more details.

The surface water management strategy has also been carefully considered to mitigate the risk of flooding, details of which can be found on the attached drawing.

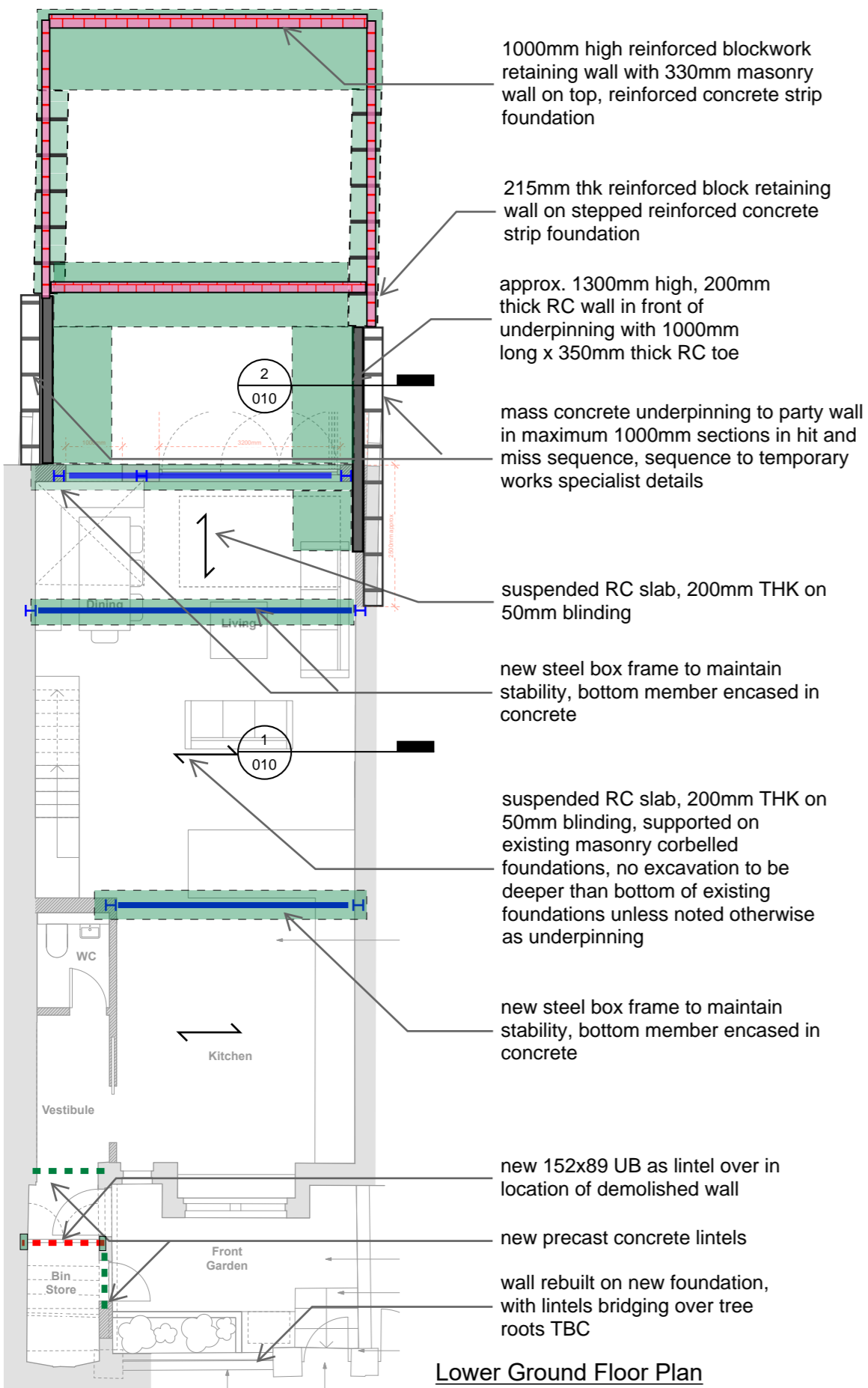


INVESTOR IN PEOPLE

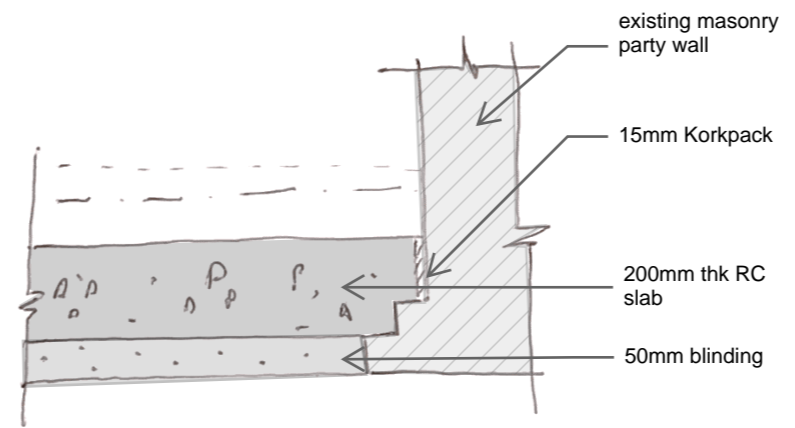


Yours faithfully.

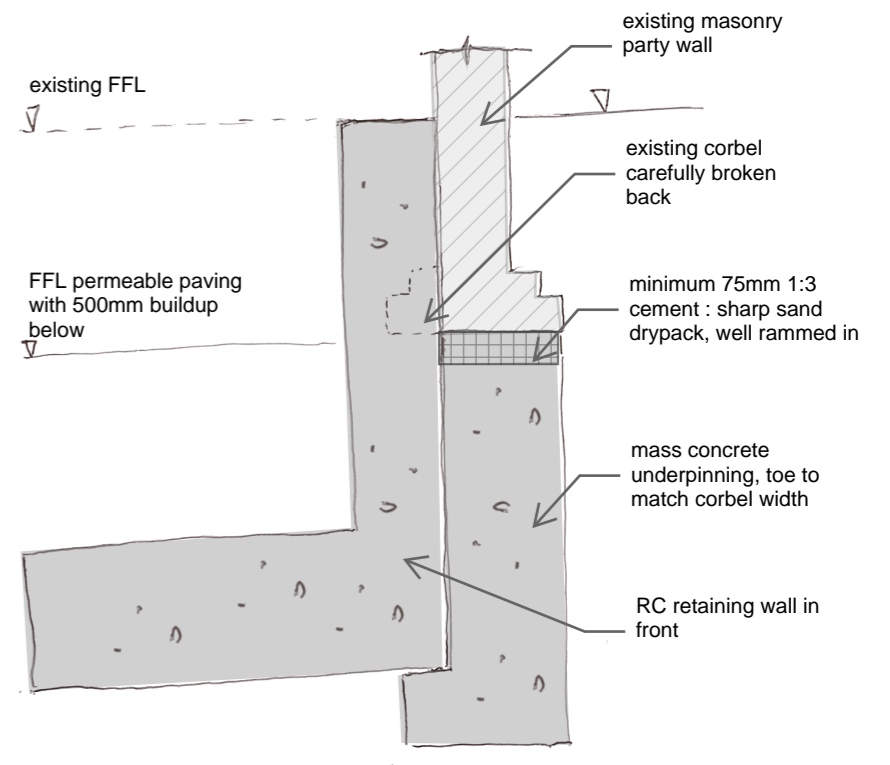
Henry Burling  
Senior Engineer



**Lower Ground Floor Plan**



**Section 1**



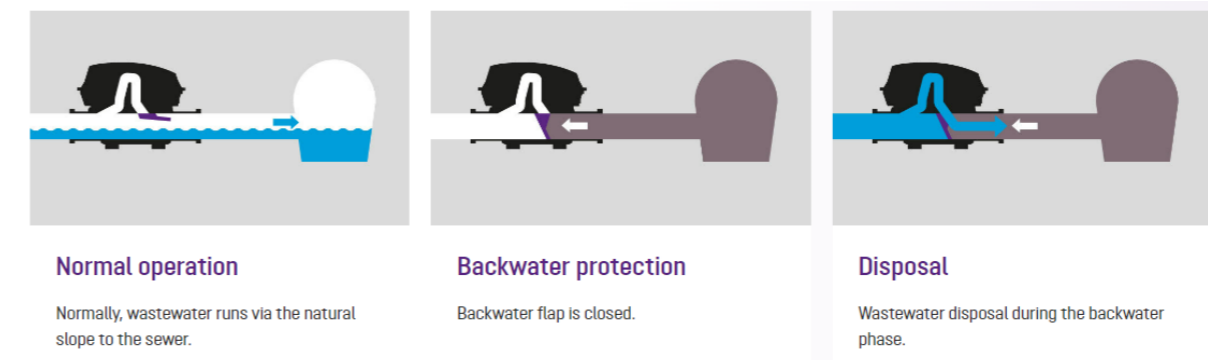
**Section 2**

**Surface Water Drainage Strategy**

We have procured a CCTV drainage survey identifying the extent, condition and levels of the existing drainage on site. The existing outfall drain on site is approximately 1.26m deep and the reduction in floor level will not effect this.

In addition, the drainage proposals will include a Kessel backwater pumping station. Under normal operation, this pump discharges flows in line with a typical gravity drainage system. However, during periods of intense rainfall when the outfall pipe to the public sewer within Kemplay Road may be surcharged, the pump closes a valve which prevents the backwash of water into building. The pump then starts operating, pumping water against the surcharged water preventing flooding occurring to the lower ground floor of the building.

The proposed RC floor will prevent the rising of groundwater and will prevent groundwater flooding.



This drawing is to be read in conjunction with all relevant architects, engineers and specialists drawings and specifications.  
Do not scale from this drawing.

Drawing title Foundation and Surface Water Strategy		Drawing title Foundation and Surface Water Strategy	
scale (s) 1:50@ A1; 1:100@A3		date November 2022	
rev		drawn	
P2 Nov 22 HB FG Preliminary	P1 Nov 22 HB FG Preliminary		HB
rev	date	by	chk

**elliottwood** engineering a better society

Elliott Wood Partnership Ltd  
Central London • Wimbledon • Nottingham  
Consulting Structural and Civil Engineers  
(020) 7499 5888 • elliottwood.co.uk

Project 22 Kemplay Road		Status Revision S2 P2	
Project no. 220303	Originator -EW	Level -ZZ	Role -SK
Drawing status Preliminary		Revision S2 P2	
Project no. 220303		Originator -EW	Level -ZZ
Project no. 220303		Originator -EW	Level -ZZ