

Rev	Date	Description	Drawn	Checked
P1	06.08.18	For Comment	RS	CG
P2	29.10.18	For Comment	RS	CG
P3	07.03.19	For Comment	ES	CG
P4	05.04.19	Updated	ES	CG

Stage 3 Drawing

Downshire Hill

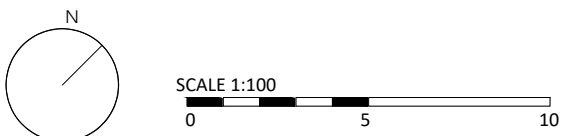
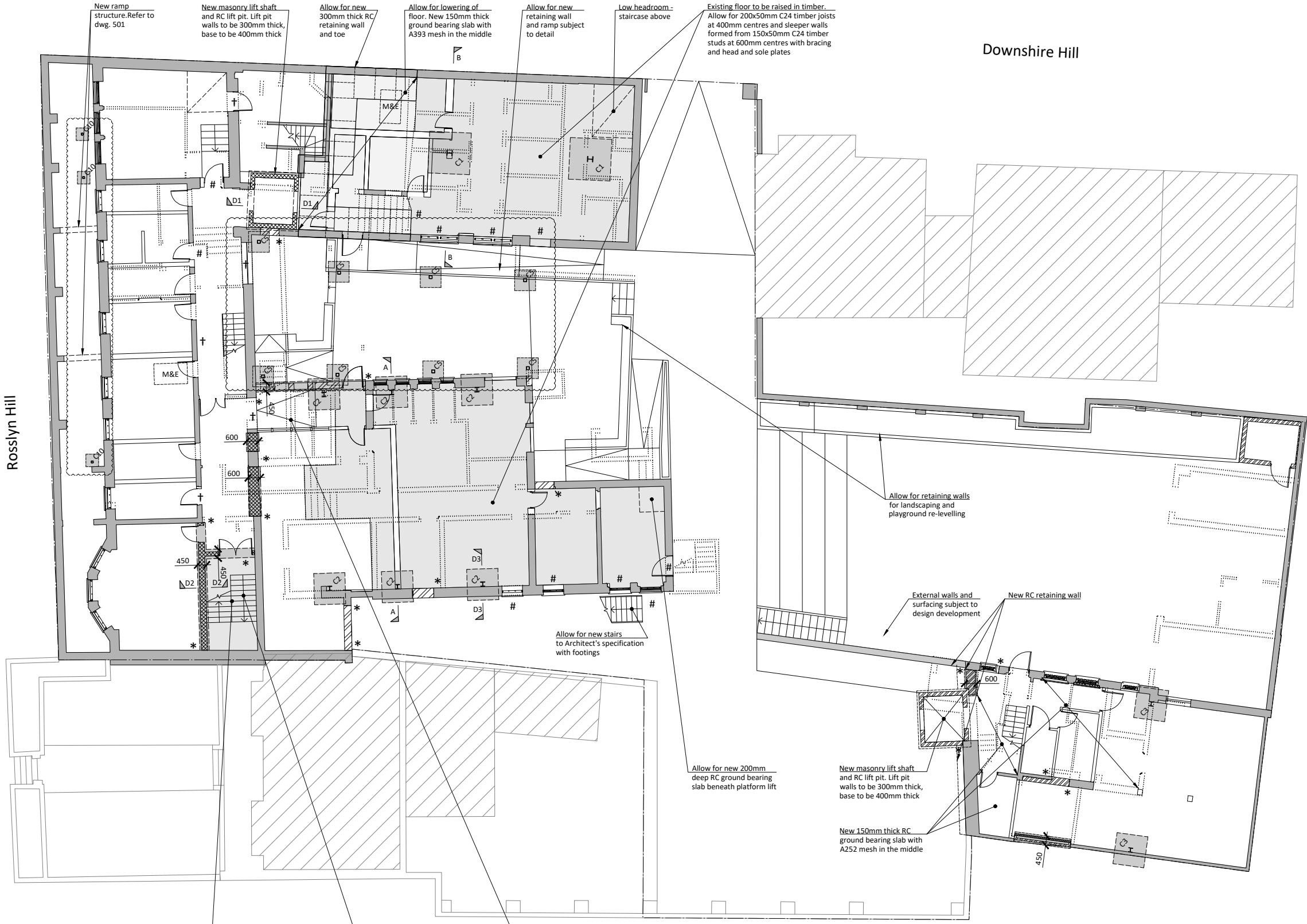
**NOTES:**  
 This scheme is based on limited opening up works of the existing structure. All assumptions subject to confirmation during next stage.  
 Founding material assumed to be sandy clay with allowable bearing pressure 150kN/m<sup>2</sup>. To be confirmed by geotechnical investigation (not seen)

Proposed Column Schedule	
Ref.	Serial Size
C1	254x254x107 UKC 2 x 2 x 1m deep mass concrete foundation
C2	203x203x86 UKC 1.5 x 1.5 x 1m deep mass concrete foundation
C3	203x203x46 UKC 1 x 1 x 1m deep mass concrete foundation
C4	152x152x30 UKC 1 x 1 x 1m deep mass concrete foundation
C5	150x150x10 SHS 1 x 1 x 1m deep mass concrete foundation
C10	100x100x10 SHS 600x600x750mm deep mass concrete foundation

All Pad foundation dimensions to be as shown in column schedule. Constructed from FND2 concrete mix or other approved by building control officer - depth of foundations to be minimum 1000mm below ground level and as agreed with Building Control

Unless dimensioned otherwise, new wide trench filled foundations to extend to existing foundations with FND2 concrete mix or other approved by building control officer - depth of foundations to be minimum 1000mm below ground level and as agreed with Building Control

- Key:**
- Indicates new brickwork to Architect's specification with class (iii) mortar. Brickwork with F2 designation to be used below DPC
  - Indicates 3.6N/mm<sup>2</sup> blockwork with class (iii) mortar. Engineering bricks or F2 designation blockwork to be used below DPC
  - Indicates existing structure to be demolished. Where existing walls are being demolished, foundations are to be retained to provide support to new floor structure
  - \* Indicates junction between new and old masonry walls use Ancon Staifix Universal wall starter kit
  - # Indicates lintels over openings to be raised. Allow for precast builders work lintels internally and reforming arches on exterior elevations
  - † Indicates new opening. Precast concrete lintels and exterior detailing to Architect's specification
  - M&E Allow for new steelwork at high level to support mechanical plant. Allow 200kg. Make allowance for openings for air ducts including lintels



PRELIMINARY  
 NOT FOR CONSTRUCTION

Title  
 Lower Ground Floor Structural Engineering Plan  
 Project  
 Abacus Betsize Primary School, NW3

Client  
 ESFA  
 Job No.  
 4343  
 Drawing No.  
 100  
 Revision  
 P4  
 Scale  
 1:100 at A1