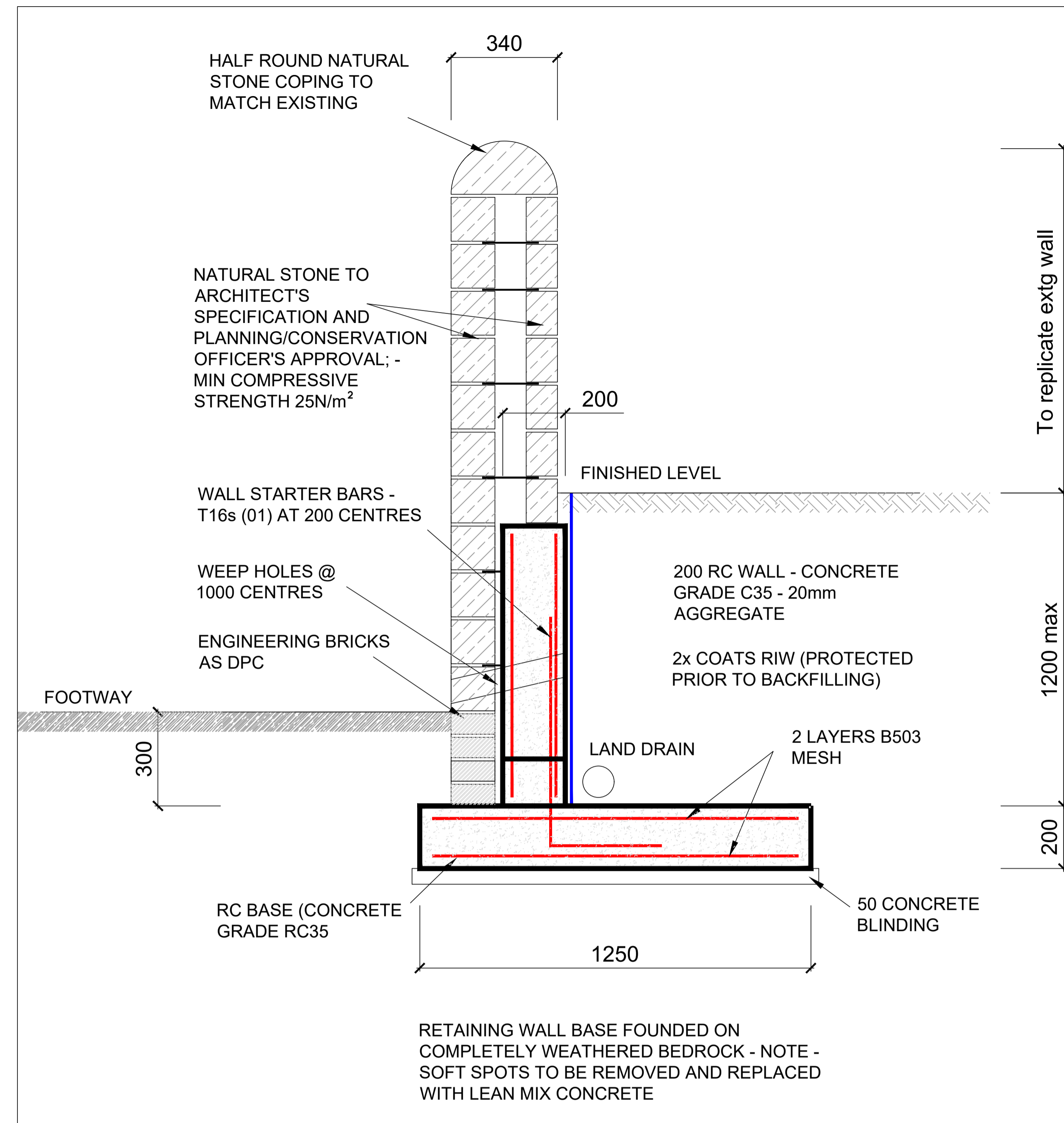


REPLACEMENT BOUNDARY RETAINING WALL - OPTION 1 - 1:10 @ A1



REPLACEMENT BOUNDARY RETAINING WALL - OPTION 2 - 1:10 @ A1



BOUNDARY RETAINING WALL - AS EXISTING

**NOTES:**

**Grouded-Cavity Retaining Wall Construction**

**Protection of formation**  
The bottoms of excavations shall be protected from adverse environmental and other effects. Formations for foundations shall be graded in such a way to prevent the build up of water.

**Low-lift Grouded Cavity Construction (recommended)**  
Place concrete infill as part of the process of laying the units at maximum vertical intervals of 450 mm. Any excess mortar in the cavity should be removed before infilling. Infill concrete should be placed in layers to within 50 mm of the level of the last course laid and should be placed to avoid staining and splashing of face work. Compact immediately after pouring. Care should be taken to avoid raising the walls too rapidly, causing excessive lateral pressure from the infill concrete before the masonry has had time to gain sufficient strength. If the wall should move at any level due to these forces, it is essential to take it down and rebuild it.

**Wall Foundations**  
Concrete grade - RC35 (to BS8500 - 1:2002)  
Nominal cover to reinforcement - top = 50, btm & ends = 75  
Mesh reinforcement to comply with BS 4483.  
Bar reinforcement to comply with BS4449.

**Waterproofing details**  
Waterproofing details to avoid saturation should include the following:  
a) a damp proof course capable of transmitting tension.  
b) an effective waterproofing treatment on the retaining face of the wall.  
c) an effective coping (to architect's details).  
d) a effective damp proof course below the coping.

**Concrete Blockwork - Earth Face of Wall**  
Type - solid concrete blockwork.  
Min compressive strength = 10 N  
Mortar Grade = Type i) to BS 5628.  
Min density = 1850 kg/m<sup>3</sup>

**Facing material**  
Type - natural coursed stone to Architect's specification.  
Min compressive strength = 25 N  
Mortar Grade = Type i) to BS 5628.  
Min density = 1900 kg/m<sup>3</sup>

**Grout**  
Concrete grade = RC 35 - max aggregate size = 10mm

**Wall ties**  
Wall ties for low-lift grouded-cavity construction should be Type 1 (heavy duty) to BS 5628-1 conforming to EN 845-1 with a declared tensile load capacity not less than 5000 N.

**Spacing and embedment of wall ties**  
In low-lift grouded-cavity walls a minimum of 2.5 ties/m<sup>2</sup> should be provided with an embedment of no less than 50 mm per leaf.

**Movement joints**  
Provide vertical movement joints at 9m centres and at changes in height of wall. Reinforcement should be curtailed each side of the joint.

A water bar, included in the joint may be required in order to prevent staining of the face of the wall.

**Land Drainage**  
Provide perforated land drain behind wall as shown with a positive outfall.  
Weep holes should also be provided (as shown) to act as drainage condition indicators.

**Backfilling**  
Allow a minimum of 14 days following completion of retaining wall prior to commencement of backfilling operations. Take care to avoid damage to walls.

Checked	Revisions	Description	Date
	1	INITIAL ISSUE	08/01/24

Client  
**RADCLIFFE DEVELOPMENTS (FARNLEY) LTD**

Job Title  
**PARK FARM FARNLEY TYAS**

**BRIGHT YOUNG**  
The Media Centre  
7 Northumberland Street  
Huddersfield HD1 1RL  
Web: www.brightyoung.co.uk  
Consulting Limited  
Tel: 01484 487950  
Fax: 01484 603519

Drawing Title  
**EXTERNAL WORKS**  
**RETAINING WALLS DETAILS - SHEET 2**  
**REPLACEMENT BOUNDARY RETAINING WALL PLOT 1**

Scale	Date	Drawn	Checked
AS SHOWN	JAN 24		

Drw No.	Rev
1430/011	1