



Retaining Wall Notes

1. These notes are applicable for non highway works. They should not be used for walls constructed within 3.66m of a public highway or walls offered for adoption.
2. All work shall be undertaken in accordance with BRE Good Building Guide 27
3. The design of the wall allows for:-

A design surcharge of 0 kN/m²

A safe ground bearing pressure of 100 kN/m² in virgin material.

All fences and hand-rails are independent of the wall and not connected in any way (unless noted otherwise on the drawings).

The design does not allow for excavation in front of the wall. Any such work will necessitate temporary works, designed to accommodate the wall surcharge (unless noted otherwise on the drawings).

4. All soft spots at founding level to be reduced and made up with lean mix concrete as necessary.

5. Concrete is specified in accordance with BS 8500-1 and BRE Special Digest No. 1. All concrete is to conform to BS EN 206-1 and BS 8500-2.

The Aggressive Chemical Environment for Concrete (ACEC) site classification is: DS-2

Concrete strength/durability requirements are as follows:

Compressive Strength Class: C35/FND2
Nominal Cover: 50mm

The Design Chemical Class is: AC-1. Where necessary, the strength/durability requirements indicated above should be enhanced to meet the requirements of BS 8500-1 and BRE Special Digest No. 1.

The minimum cement contents indicated are based on the stated maximum aggregate size. If a smaller maximum aggregate size is used the cement content is to be increased in accordance with BS 8500-1.

6. Minimum block strength to be 10.4N/mm² to BS EN 771-3-2003. Minimum brick unit strength to be 27 N/mm² to BS EN 771-1-2003. Mortar to be mortar class M12 sulphate resistant to BS EN 998-2-2003. Minimum density of all materials to be 1500 kg/m³.

7. All bricks other than facing bricks are to be designation F2 (frost resistant, low sulphate) e.g. Class B engineering bricks.

8. All brick/blockwork shall be fully bonded or tied using stainless steel 'fish tailed' vertical twist ties or 30 x 5 flat stainless steel ties at 450mm c/c vertically and 900mm c/c horizontally, and be staggered.

9. 15mm movement joints are to be provided at minimum 12m centres in brickwork walls. Movement joints to be continuous through masonry and concrete base. Joints shall be formed with a flexible filler and mastic sealant.

10. 75mm diameter weepholes are to be provided at minimum 2m centres, 2 courses above the lower ground level.

11. Where facing bricks are required, these are only to be used from one course above weepholes.

12. The rear of all retaining walls are to be waterproofed with either a bituminous membrane (e.g. bituthene, synthaproof) or 2 coats of bituminous emulsion. Waterproofing to be protected with fibreboard or similar.

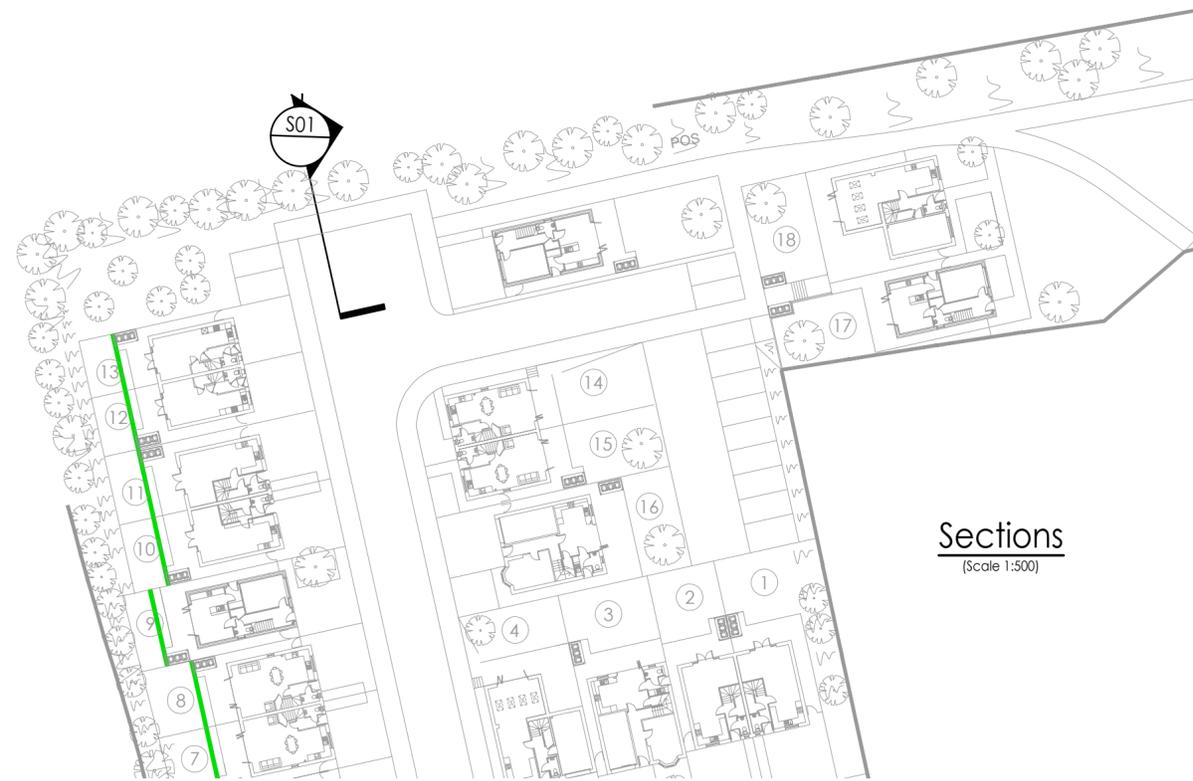
13. Retaining walls to be backfilled with minimum 450mm wide free draining material incorporating a geotextile filter as indicated on the relevant section.

General Notes

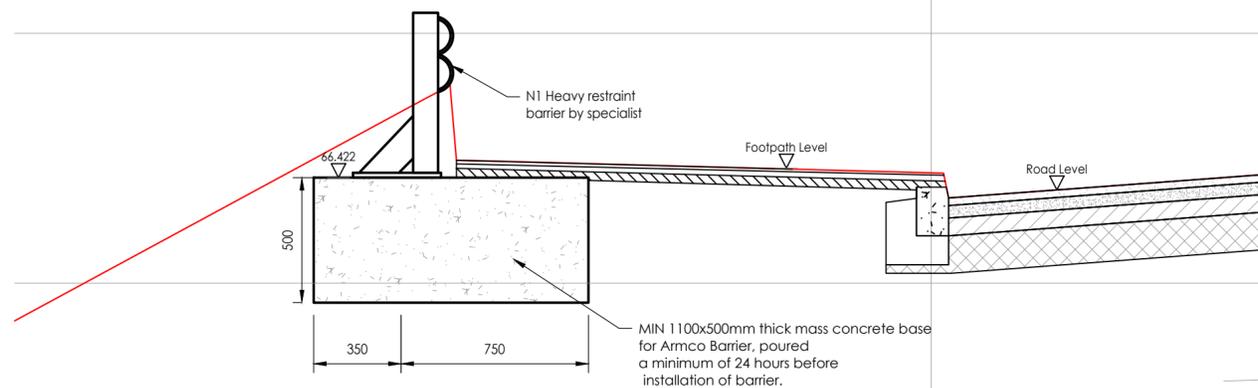
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7. This document should be read in conjunction with associated models, specifications and related consultants documents.

Legend

Indicates proposed ground level



Sections
(Scale 1:500)



S01
(Scale 1:50)
Section Through Restraint Barrier



Health & Safety Note

The details on this drawing have been prepared on the assumption that a competent contractor will be carrying out the works. If the contractor(s) considers that there is insufficient Health and Safety information on this drawing, this should immediately be brought to the attention of the designer.

Project:	Land off Heaton Grange, Batley	WBE Reference:	W21880	Drawn By:	CT	Authorised By:	KS
Client:		Title:	VRS Details				
Classification:	FL_60_20	Scale:	As Shown	Date issued:	11/11/2024		
Project No.	W21880 - WBE - 16 - 00 - DR - S - 3102	Originator	Volume	Level	Type	Role	Number
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