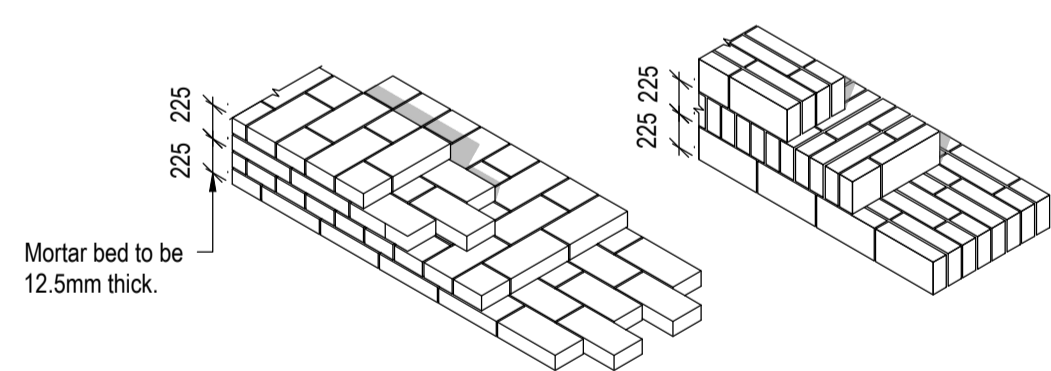


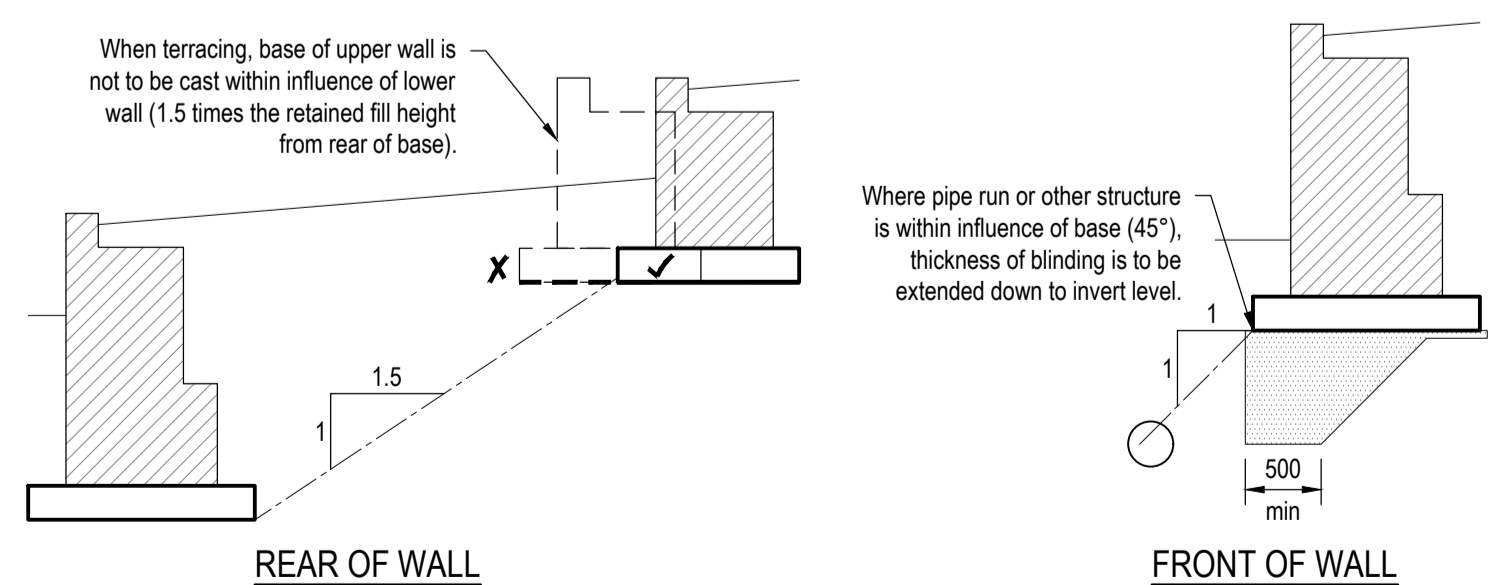
PLAN ON PLOT 18 RETAINING WALL
SCALE 1:100

FOR EXTERNAL WORKS DRAWING REFER TO EASTWOOD CONSULTING ENGINEERS DRAWING NUMBERED 4878-ECE-XX-XX-DR-C-0025-P05

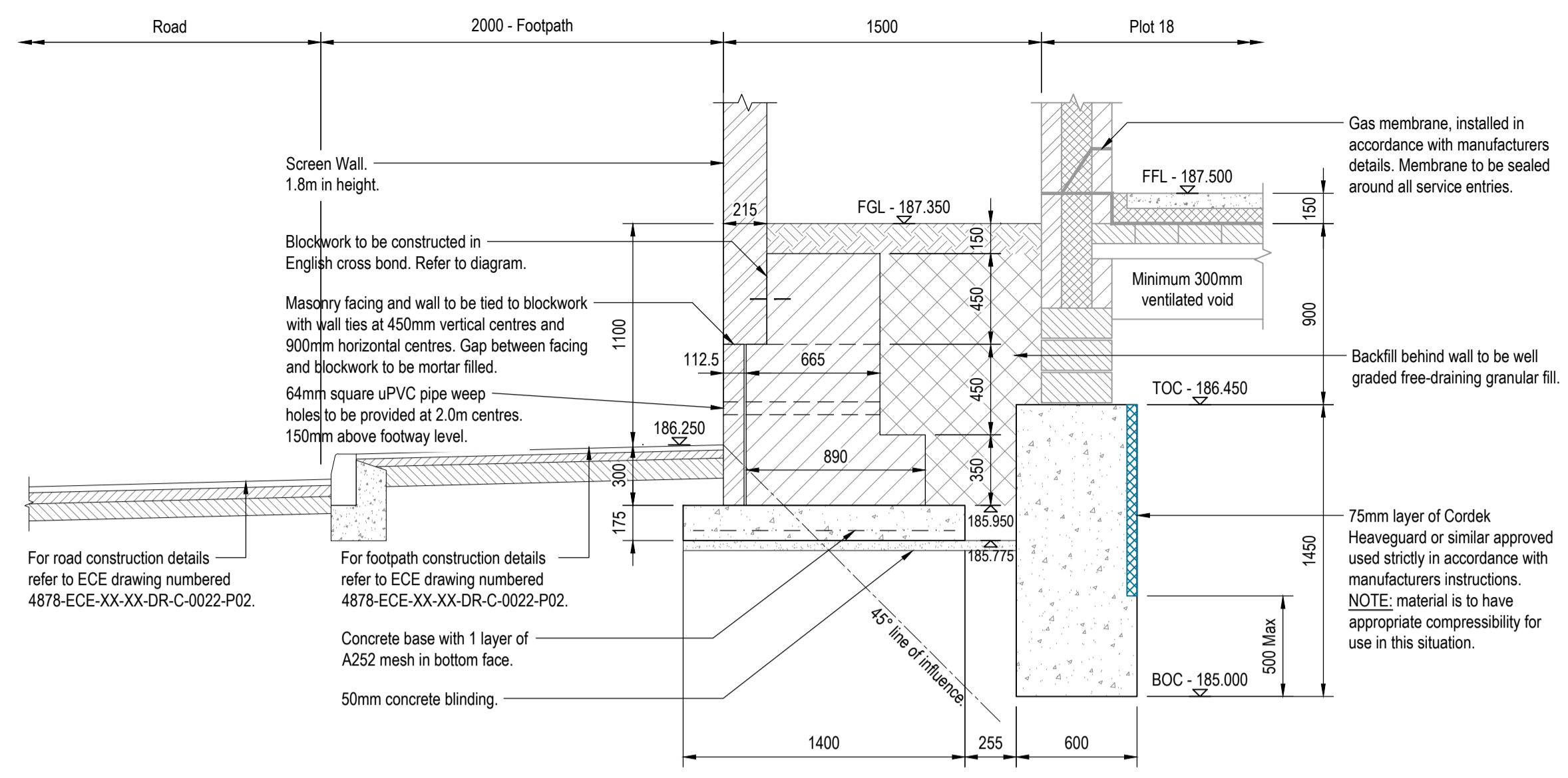


LAID FLAT OPTION **UPRIGHT OPTION**

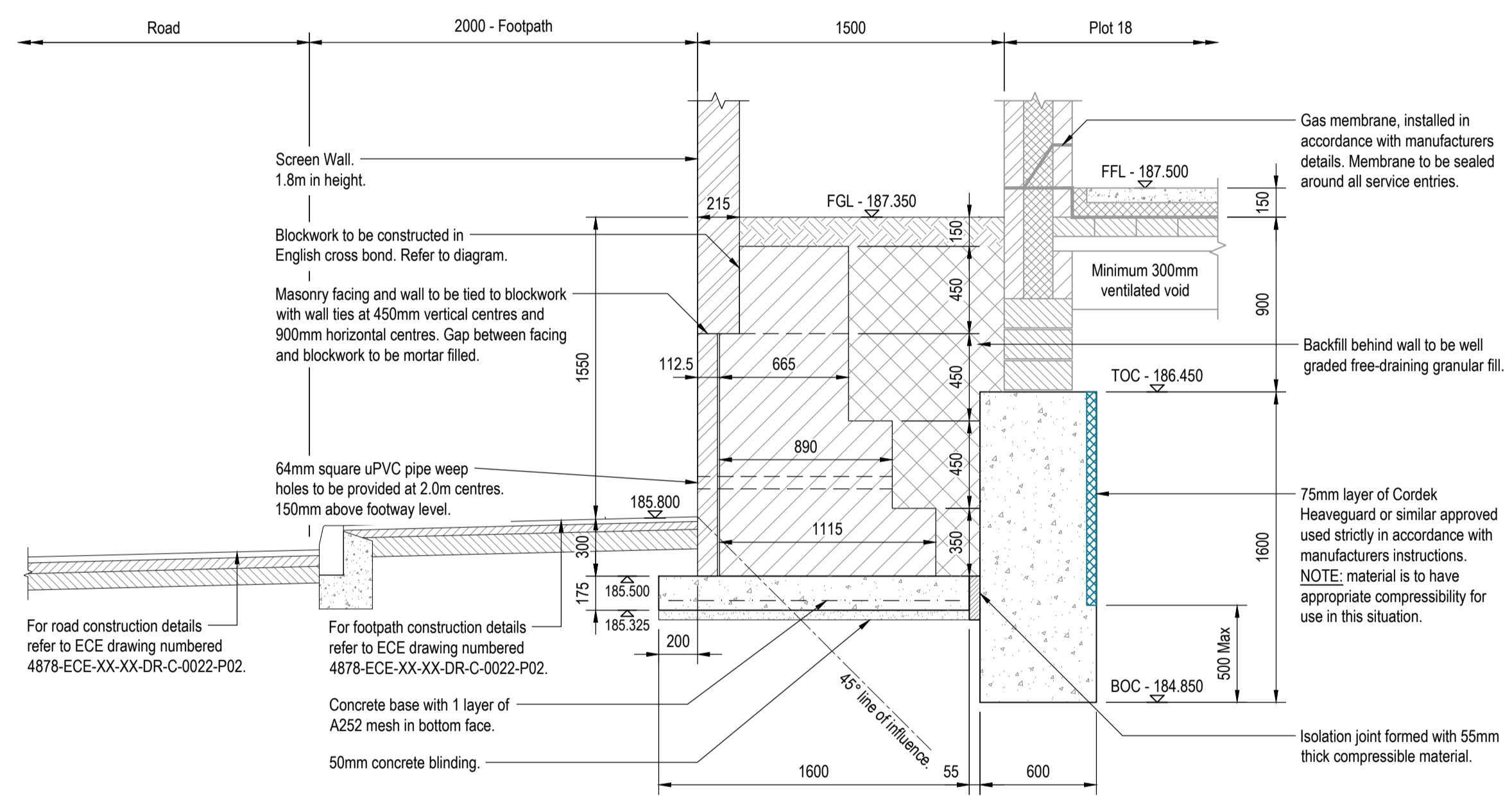
BLOCKWORK CONSTRUCTION
ENGLISH CROSS BOND



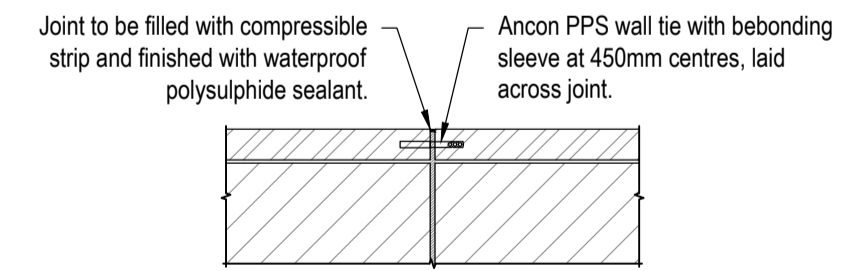
STRUCTURAL INFLUENCE



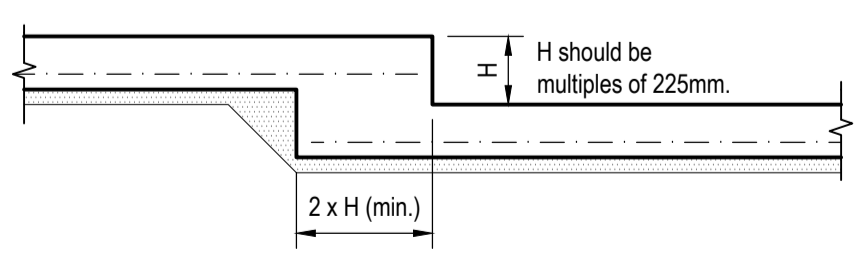
SECTION A-A
SCALE 1:25



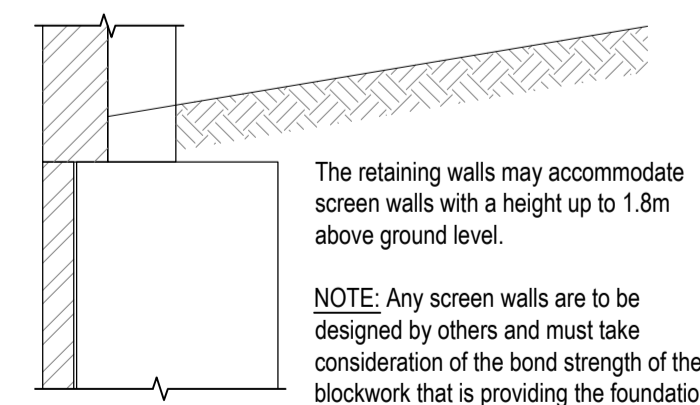
SECTION B-B
SCALE 1:25



MOVEMENT JOINT DETAIL
AT 6.0m MAXIMUM CENTRES



STEP IN BASE DETAIL
SCALE 1:25



SCREEN WALL OPTION
SCALE 1:25

Table 3.11 - Durability - Materials and finishes		
Item	Material	Finish / Location
Retaining wall base.	Concrete to a designated mix of FND2z in accordance with BS 8500-1.	Concrete finishes to be U1/F1 for buried concrete. Exposure classes, XC2, XD2. Corresponding location on the structure.
Retaining wall stem.	Concrete aggregate blocks conforming to BS EN 771-3.	
Retaining wall facing.	Clay units with F2 S2 resistance conforming to BS EN 771-1 having a design working life of 120 years.	Stainless steel ties to BS EN 845-1 at 450mm vertical and 900mm horizontal centres.
Backfill Material	Class 6P or 6N selected granular fill in accordance with table 6/1 of Series 600 of the Specification for Highways Works (Volume 1)	
Weep holes.	64mm uPVC square pipe installed at 2m centres.	

- This drawing is to be read in conjunction with all relevant external works and foundation layouts.
 - Do not scale from drawings. All levels are in metres above ordnance datum and all dimension are in mm, unless stated otherwise.
- CONCRETE NOTES:**
- Concrete to comply with the National Structural Concrete Specification for Building Construction 4th Edition (NSCS) generally. Project specific elements are highlighted below.
 - Concrete to be designated mix FND2z to BS 8500-2
 - Nominal cover to reinforcement to be 50mm unless stated otherwise for exposure class XC2, XD2.
 - Fabric mesh reinforcement to be Grade B500A, B500B or B500C to BS 4483.
- MASONRY FACING NOTES:**
- Facing below ground level (and including 150mm above ground level) to be Class B Engineering bricks conforming to BS EN 771-1 or aggregate concrete blocks conforming to BS EN 771-3 (suitable for exposure class MX3.2).
 - Facing above ground level to be clay units conforming to BS EN 771-1 with F2 freeze/thaw resistance and S2 sulphate resistance with a water absorption not exceeding 12% or manufactured stone units conforming to BS EN 771-5 (suitable for exposure class MX3.1).
 - Mortar to be Type (ii) / M6 designation in accordance with EN 998-2 & BS EN 1996-2.
 - Coping to be either Class B Engineering bricks conforming to BS EN 771-1, manufactured stone units conforming to BS EN 771-1 or dedicated coping stones (suitable for exposure class MX3.2).
 - Facing to be constructed in stretcher bond.
 - Wall ties to be Ancon SPS 150mm ties (or similar approved) to BS EN 845-1.
- MASONRY WALL NOTES:**
- Wall to be constructed from either aggregate concrete blocks conforming to BS EN 771-3 or autoclaved aerated concrete blocks conforming to BS EN 771-4.
 - Blocks are to have a minimum mean density of 1800 kg/m³ and a mean compressive strength of at least 3.6 N/mm².
 - Mortar to be Type (ii) / M6 designation in accordance with EN 998-2 & BS EN 1996-2.
 - Bed joint reinforcement to conform to BS EN 845-3.
- FORMATION NOTES:**
- The blinding for the structure should be cast on competent ground, described as having an allowable bearing pressure of at least 75 kN/m².
 - Where competent ground is not encountered at the proposed formation level, the ground should be replaced with well compacted selected granular fill or mass concrete down to competent ground.
 - The Aggressive Chemical Environment for Concrete assumed is DS-1 AC-2r. For more onerous soil conditions, Eastwood Consulting Engineers should be consulted.
- BACKFILL NOTES:**
- All backfill behind the wall should be free draining, selected granular material with a course grading, i.e. Class 6N or 6P material in accordance with The Specification for Highway Works - Series 600 (Table 6/1 and Table 6/2). The backfill is not to contain clay, organic material or any particles greater than 75mm.
 - The backfill should be suitable compacted. Refer to The Specification for Highway Works - Series 600 (Clause 6/2 & Table 6/4).
 - For walls less than 1.2m in height, the maximum mass per metre width of roll of rollers to be 450 kg (e.g. 270kg max. for 600mm wide roller)
 - For walls over 1.2m in height, the maximum mass per metre width of roll of vibratory rollers to be 700 kg (e.g. 420kg max. for 600mm wide roller).
- TEMPORARY WORK NOTES:**
- The Contractor is to make themselves aware of the implication of which either they or their sub-contractors make with regard to the structural integrity of the works, existing structures and services.

REV	DESCRIPTION	SIG	CHK	DATE
P05	Revisions as clouded.	AJC	GH	12.05.2026
P04	Revisions as clouded.	AJC	GH	16.04.2026
P03	Blinding thickness revised. Screen wall noted.	JB	AJC	04.03.2026
P02	External Works in area of Plot 18 revised.	JB	CH	04.02.2026
P01	First Issue.	JB	AJC	17.12.2025

RIVA HOMES

CROFT STREET, BIRKENSHAW, BRADFORD, BD11 2HT

PLOT 18 RETAINING WALL DETAILS



ECE PROJECT No	SCALE AT A1	STATUS	SUITABLE FOR
48785	As Shown	S4	Approval
DRAWING NUMBER			
48785 - ECE - XX - XX - DR - C - 0105	REV		
Project	Originator	Zone	Level
			Type
			Role
			Number

- DESIGN NOTES:**
- The wall has been designed to resist a maximum surcharge of 5.0 kN/m².
 - In combination with the surcharge, the wall is designed to support a 1.80m high wall with a wind load of 1.01 kN/m² (including net pressure coefficients). Note that the wind load acting from the highway side (against backfill) is 1.26 kN/m².
 - The wall has been design to resist a maximum construction surcharge of 10.0 kN/m² (5.0 kN/m² for walls less than 1.0m high), when no fence or wind susceptible structure is in influence of the wall.
 - The formation is to have a minimum allowable bearing pressure of 75kN/m². Where walls are to be constructed on softer ground than assumed - Eastwood Consulting Engineers should be consulted.
 - This design will not be applicable in the vicinity of trees, on steeply sloping sites, on sites affected by mining subsidence or where ground strength reduces with depth.

NOTE:
Shallow groundwater is expected; excavations should not be left open for a significant length of time in case side collapse occurs. The time of year for pulling foundations should be considered carefully.