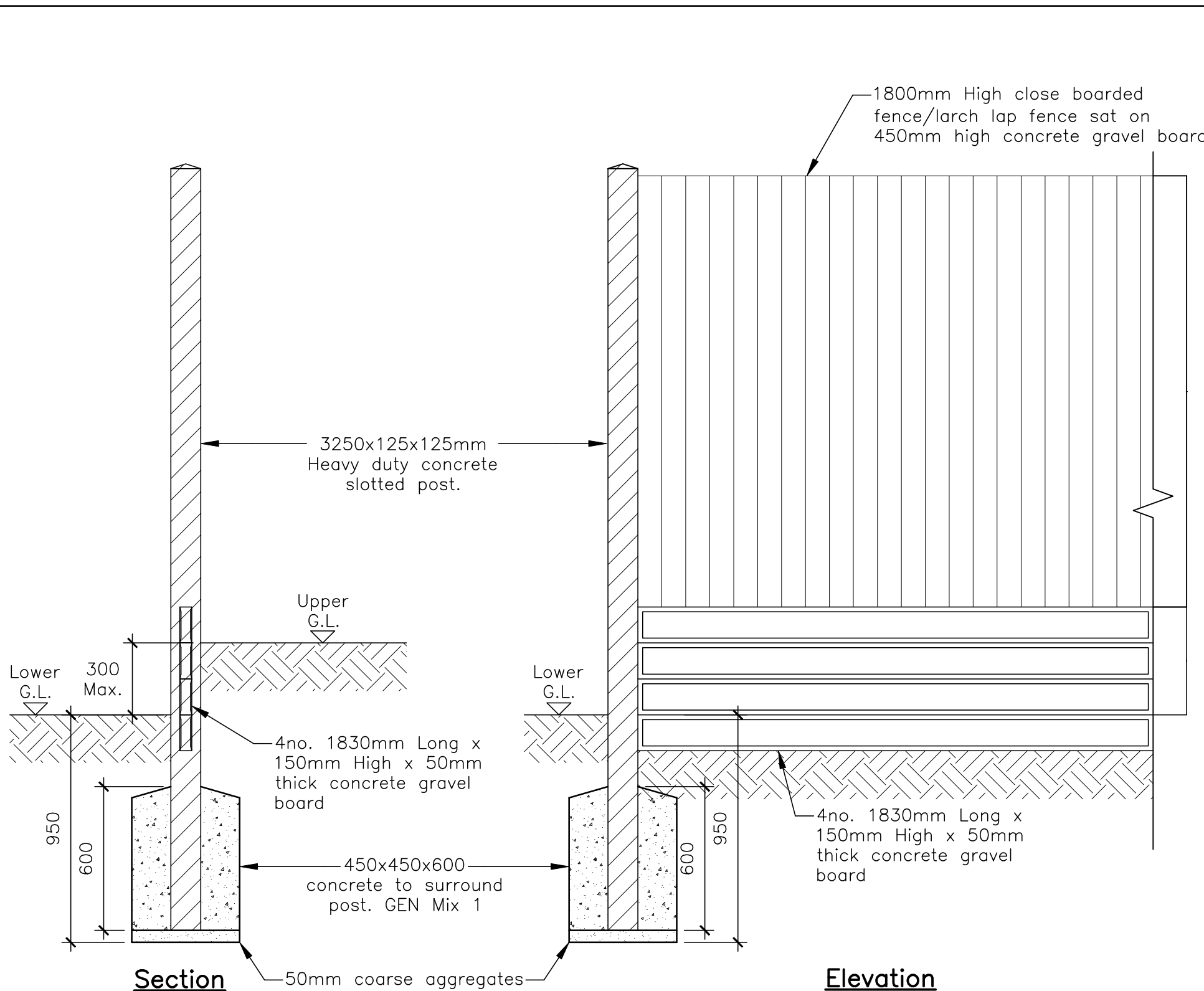
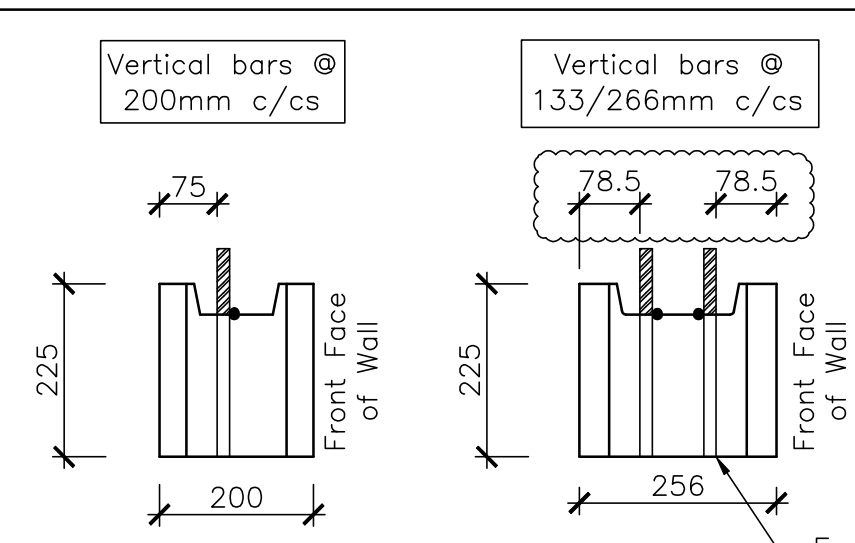
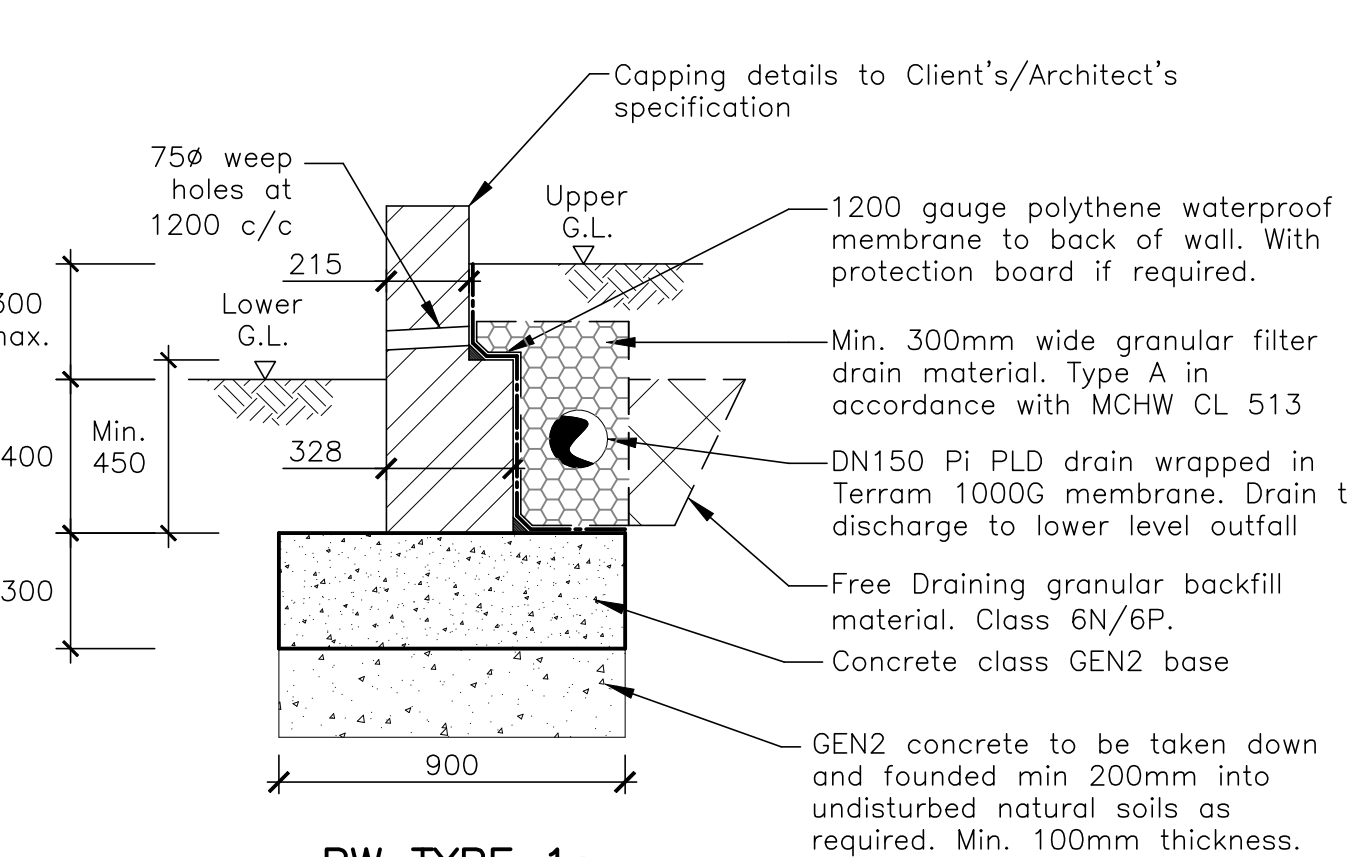




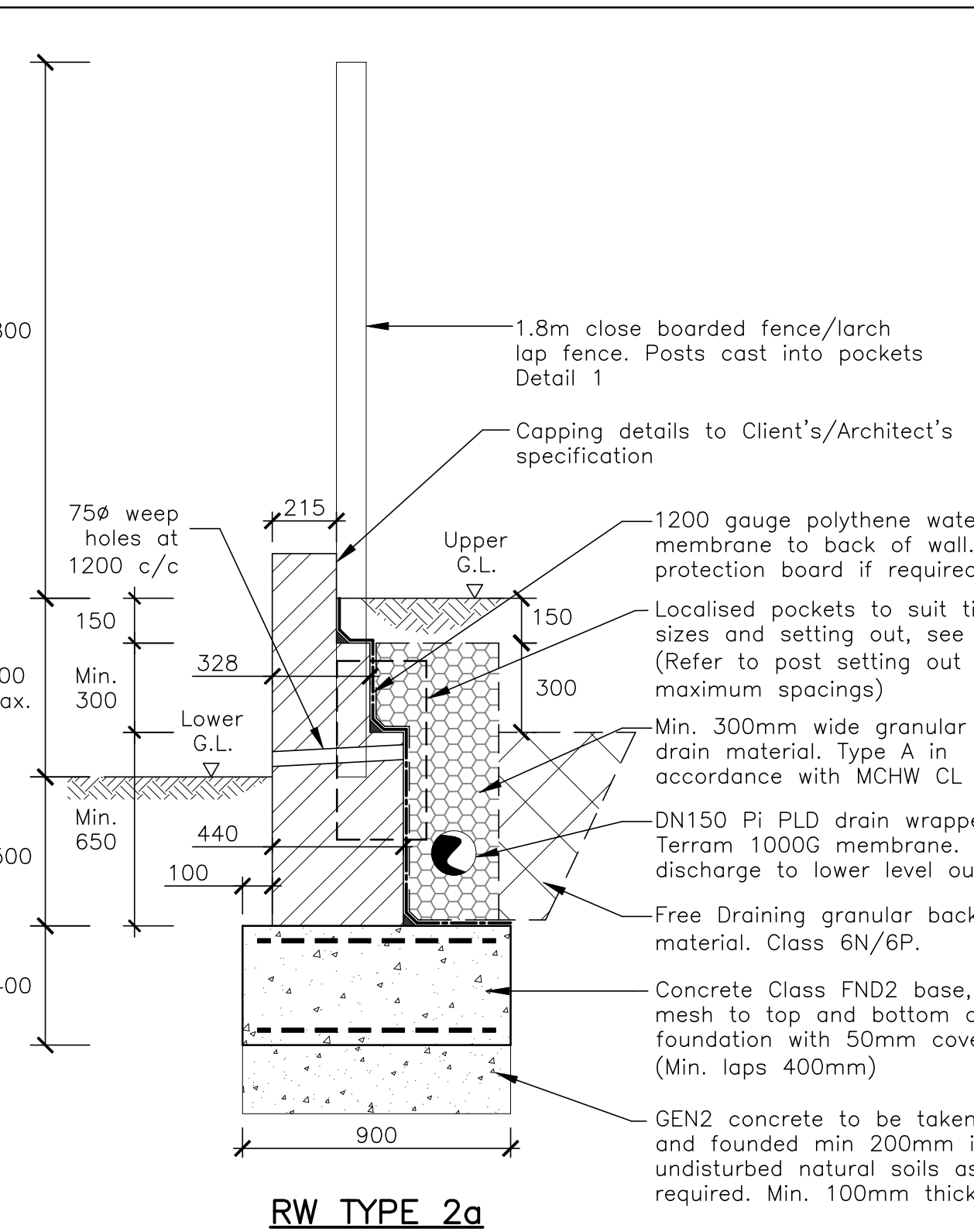
TYPE 1a Retaining Wall
Up to 300mm Retained Height
(1:20)



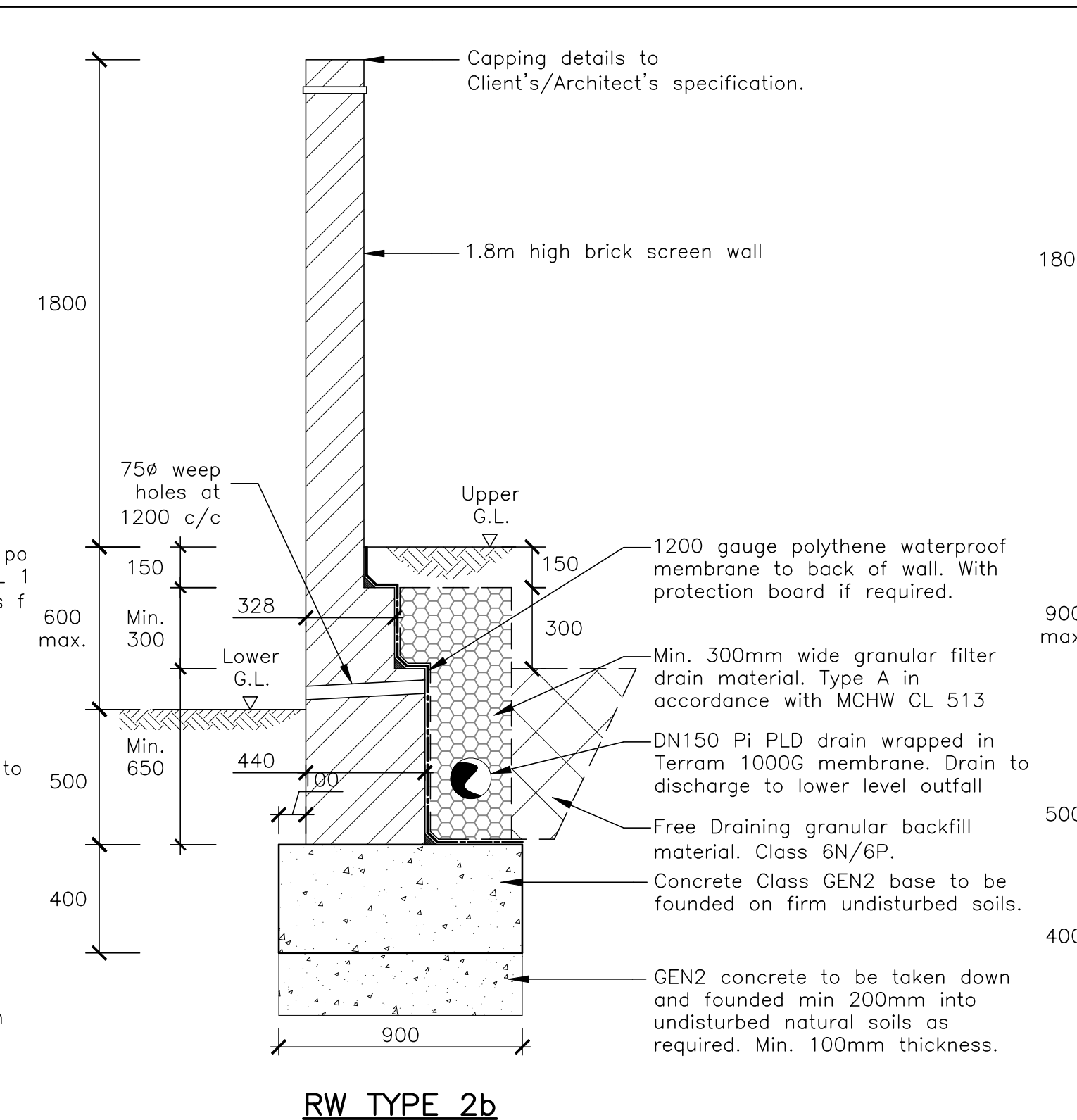
DETAIL 2
Stepoc Vertical Reinforcement Details
(primary set out factor)
(1:10)



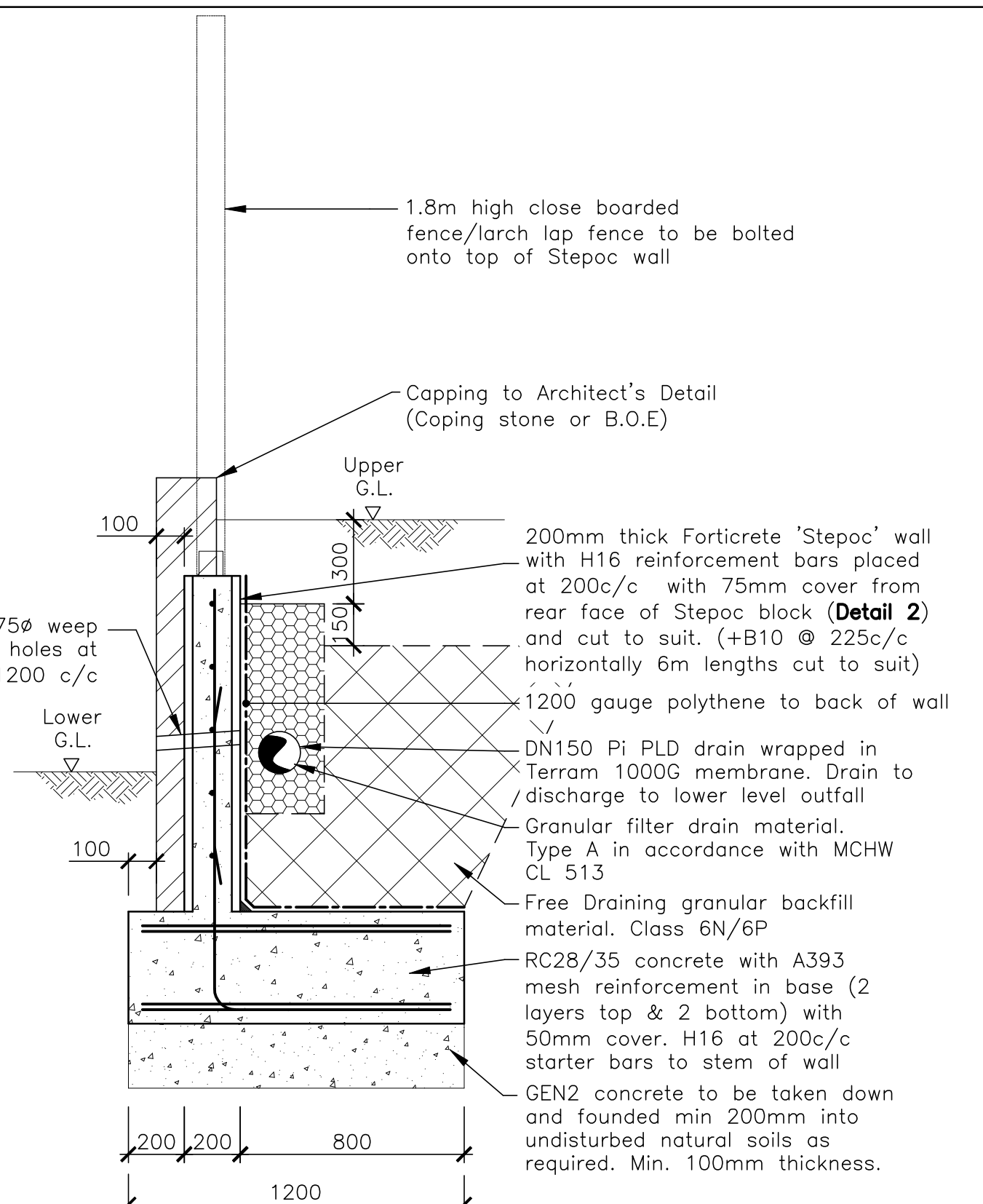
RW TYPE 1c
Brick Retaining Wall
Up to 300mm Retained Height
(1:20)



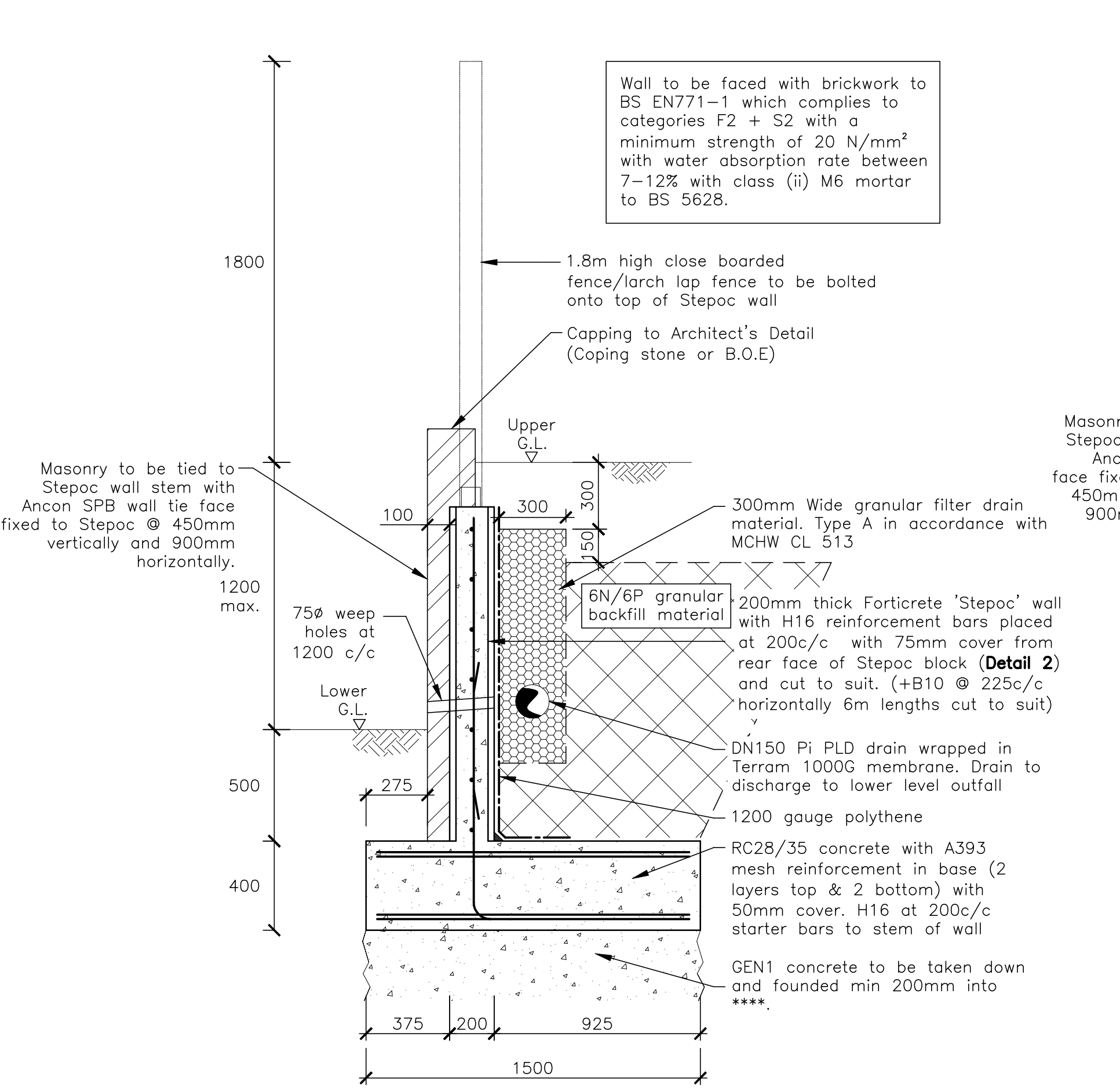
RW TYPE 2a
Brick Retaining Wall
Up to 600mm Retained Height
(1:20)



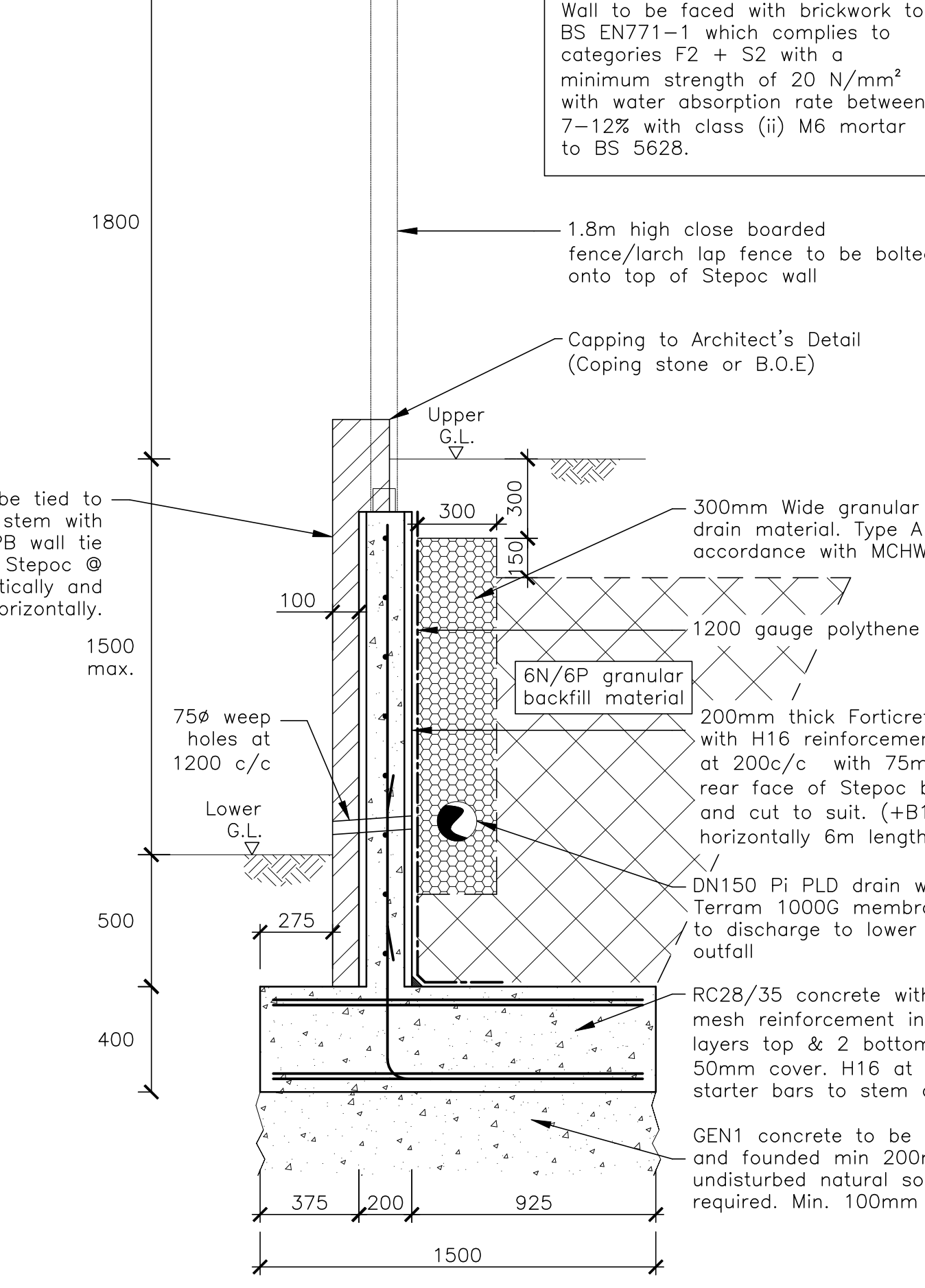
RW TYPE 2b
Brick Retaining Wall
Up to 600mm Retained Height
(1:20)



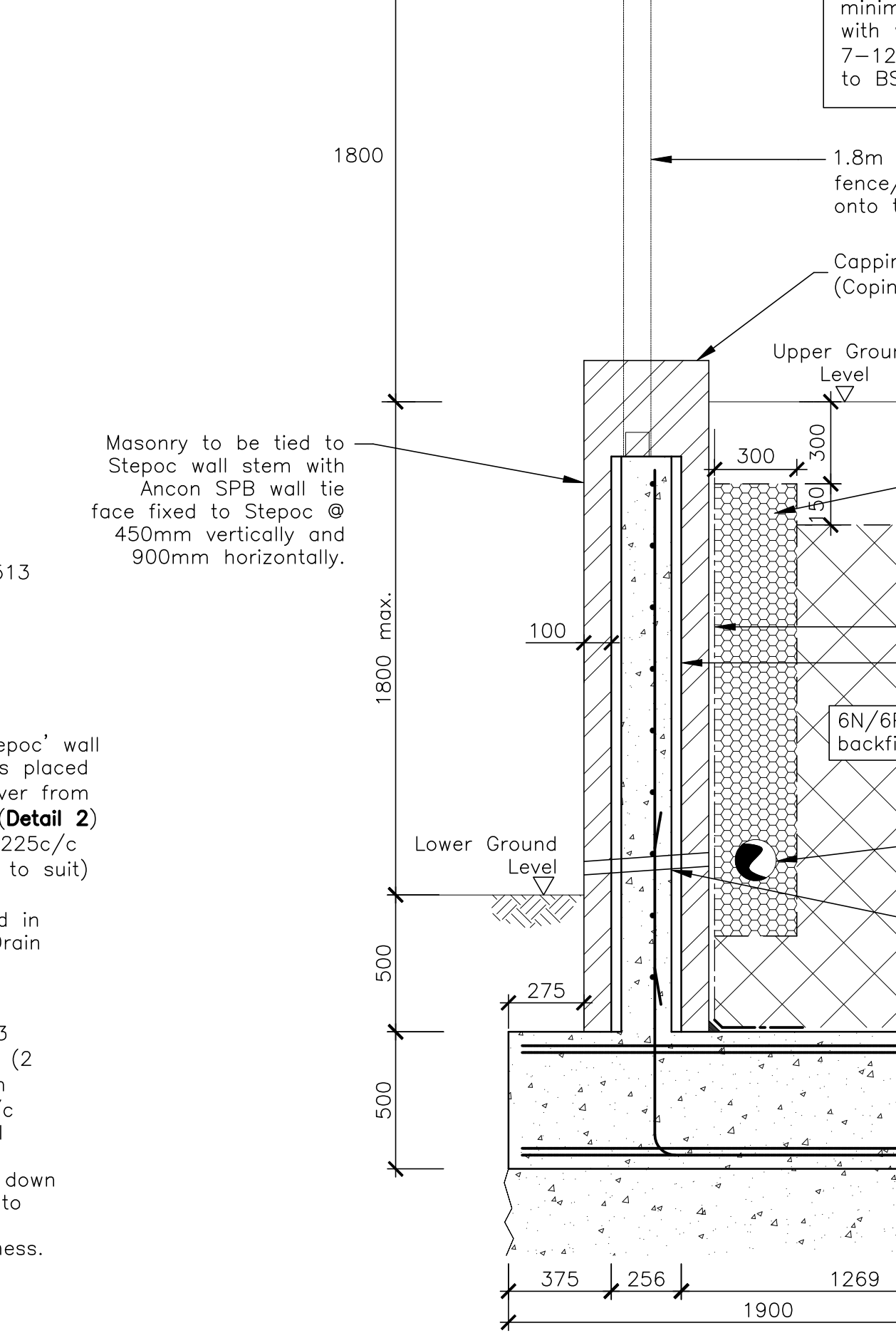
TYPE 3a
Stepoc Retaining Wall
Up to 900mm Retained Height
(1:20)



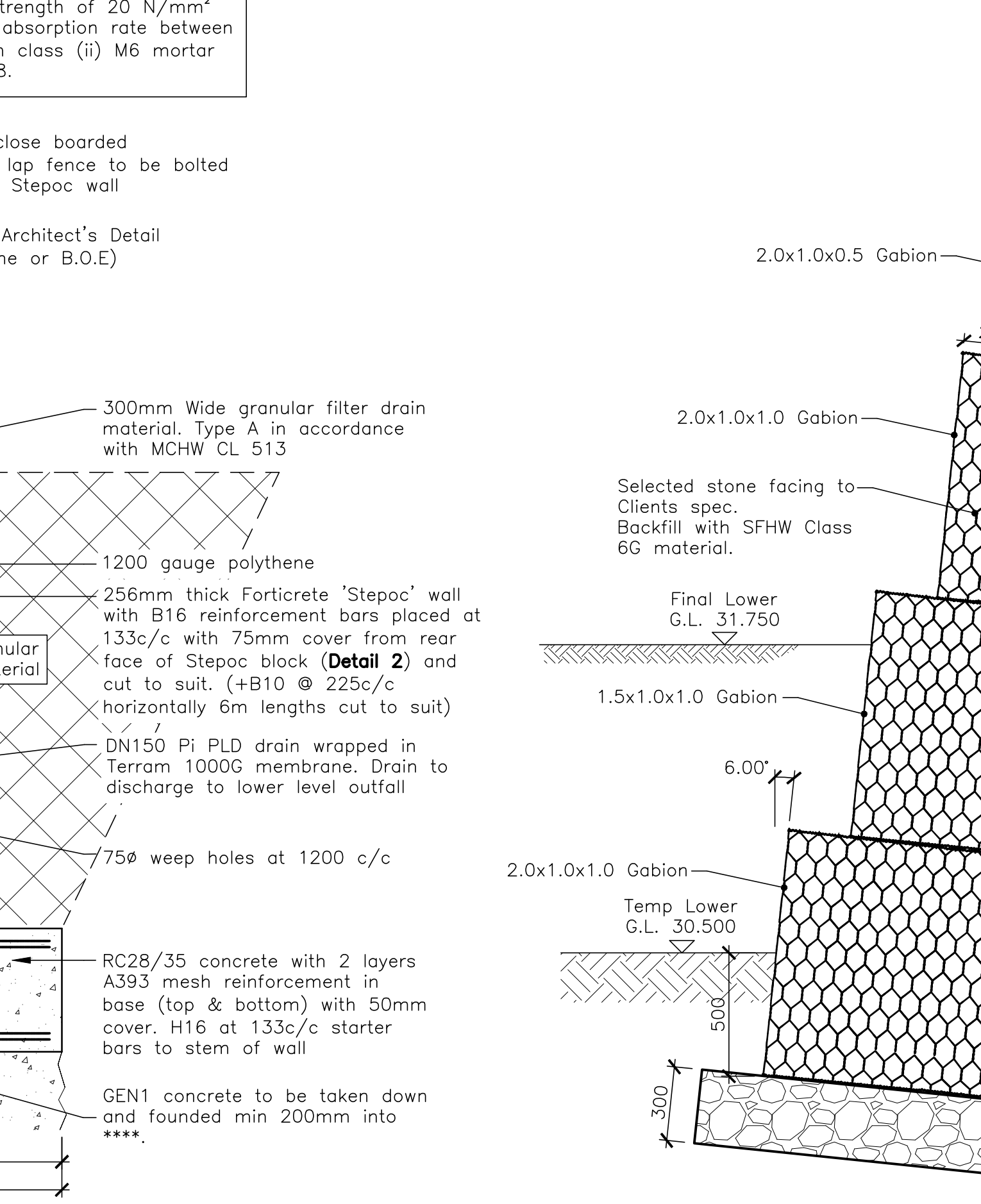
TYPE 4a
Stepoc Retaining Wall
Up to 1200mm Retained Height
(1:20)



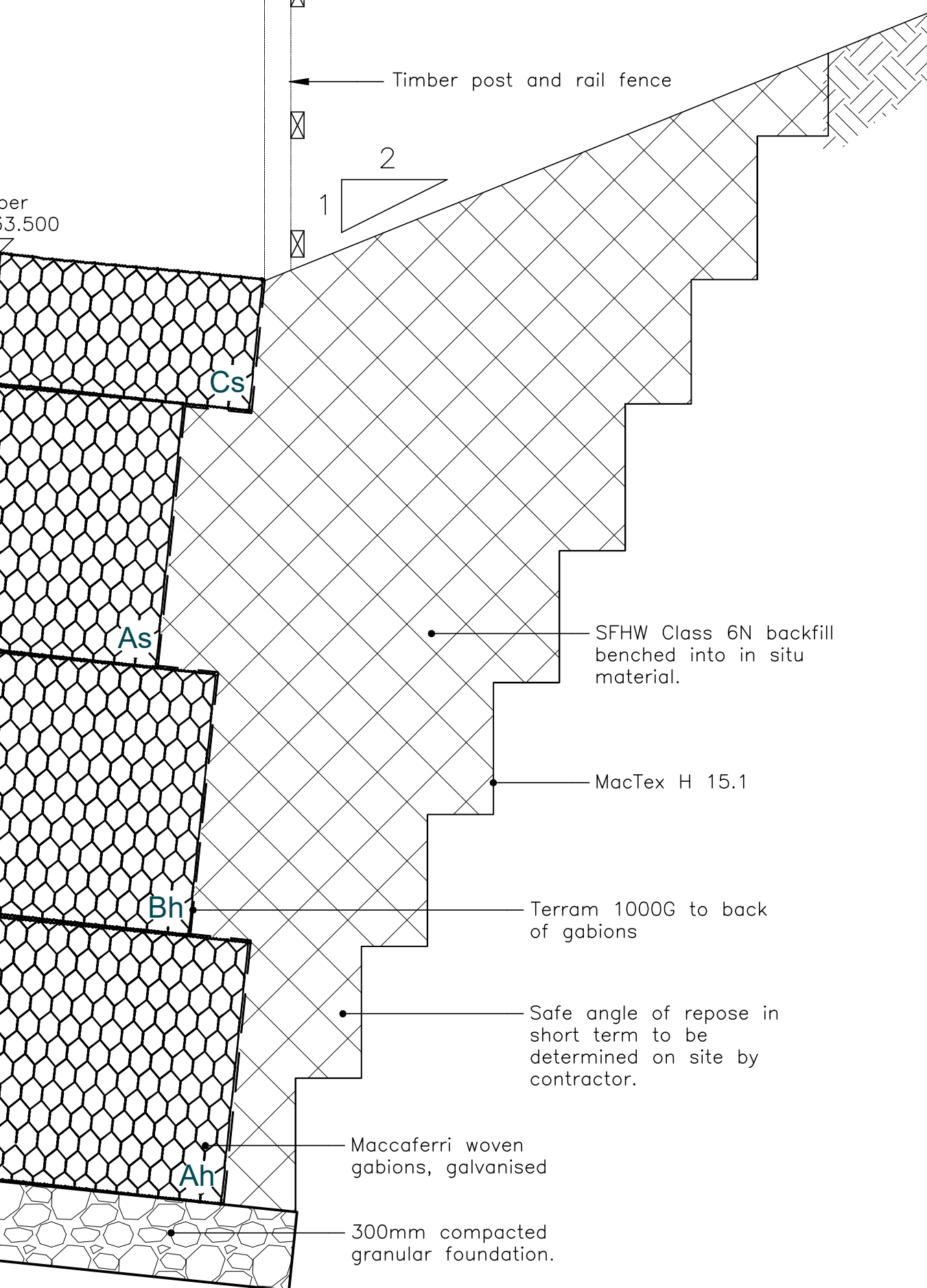
TYPE 5a
Stepoc Retaining Wall
Up to 1500mm Retained Height
(1:20)



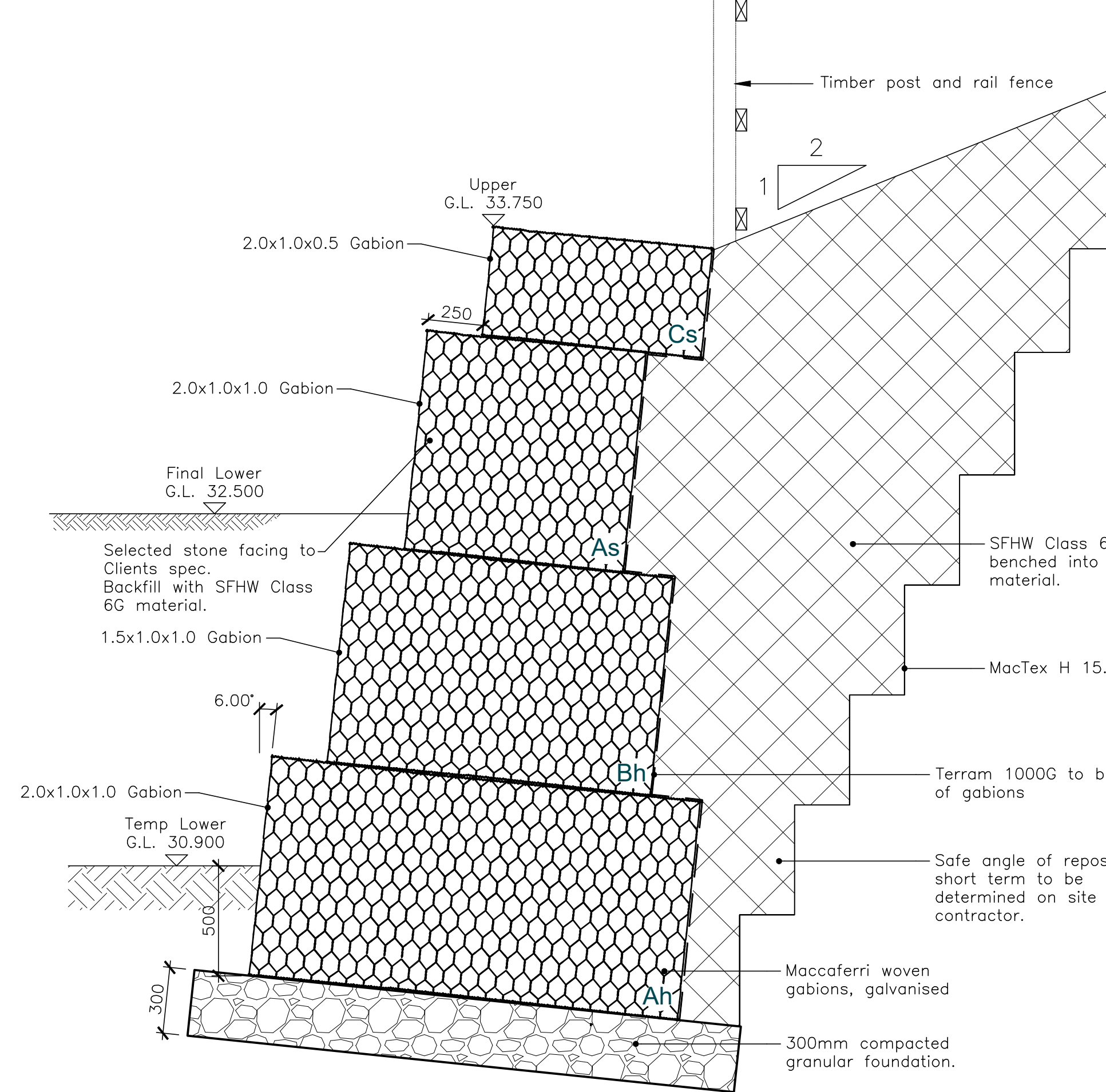
TYPE 6a
Stepoc Retaining Wall
Up to 1800mm Retained Height
(1:20)



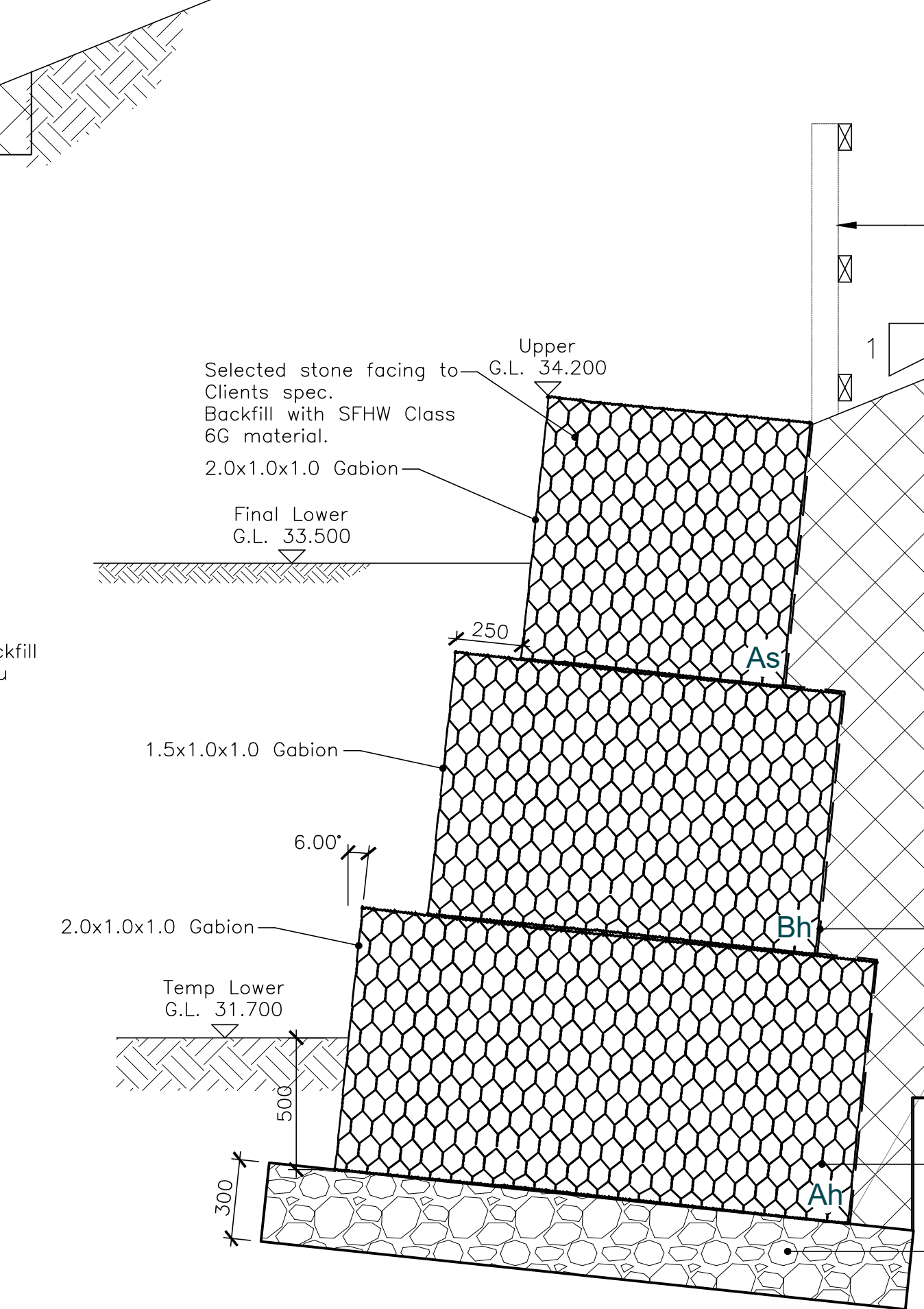
TYPE 6a
Stepoc Retaining Wall
Up to 1800mm Retained Height
(1:20)



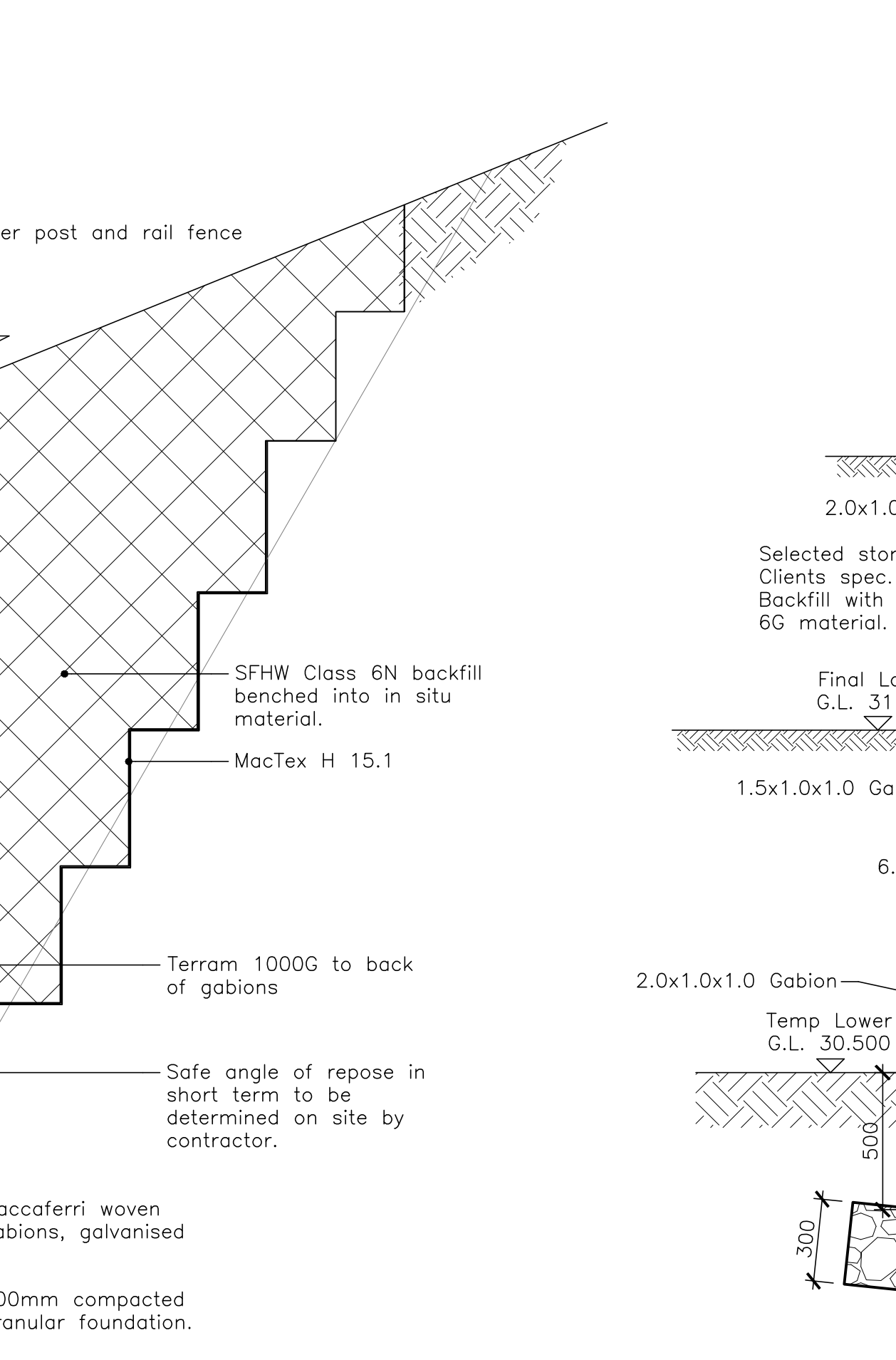
TYPE S1-S1
Woven Gabion Retaining Wall
(1:20)



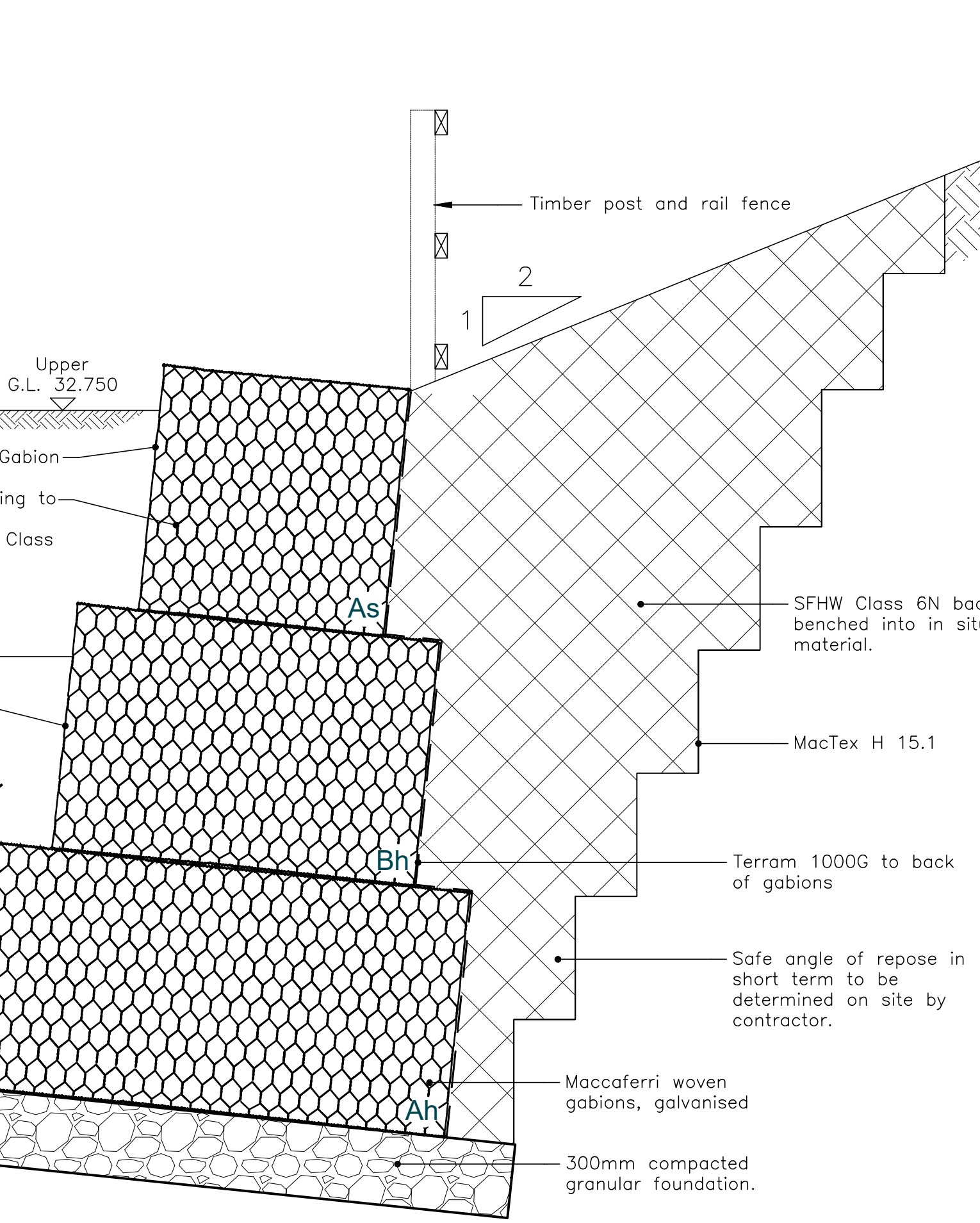
TYPE S2-S2
Woven Gabion Retaining Wall
(1:20)



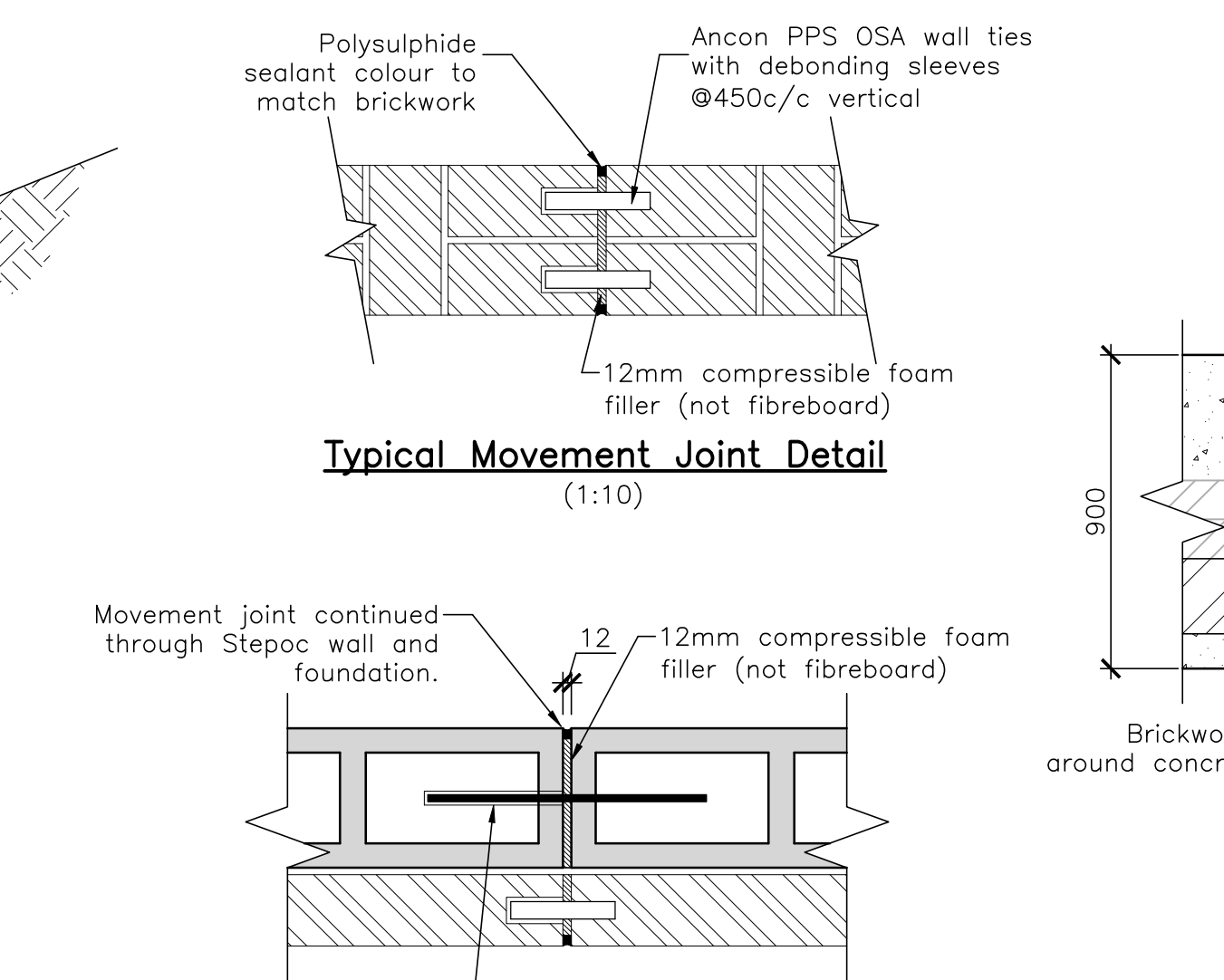
TYPE S3-S3
Woven Gabion Retaining Wall
(1:20)



TYPE S3-S3
Woven Gabion Retaining Wall
(1:20)



TYPE S4-S4
Woven Gabion Retaining Wall
(1:20)



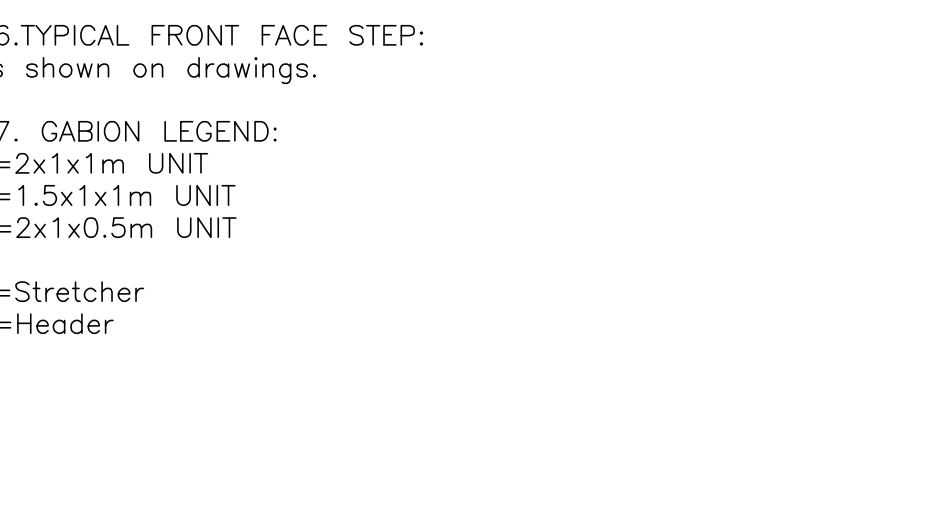
Typical Movement Joint Detail
(1:10)

- Retaining Wall Masonry Notes:**
- All masonry to be in accordance with the requirements of BS 5628: Part 1, Part 2 and Part 3 as appropriate.
 - All masonry below DPC to be in accordance with BS EN 771.
 - All Brickwork below ground to have a minimum density of 2100kg/m³. Brickwork below lower ground level to be class B Engineering Bricks in class M12/(i) mortar. Walls above ground level to be in class M6/(ii) mortar.
 - All blockwork below ground to have a minimum density of 1500kg/m³ AND have a minimum compressive strength of 7.3N/mm².
 - Blockwork to be used with minimum M12/(i) mortar. DO NOT REPLACE ANY BRICKWORK SHOWN IN DETAILS WITH BLOCKWORK.
 - Retaining walls to be faced with brickwork to BS EN 771-1 which complies to categories F2 + S2 with a minimum strength of 20 N/mm² with water absorption rate between 7-12% with class M6/(ii) mortar to BS 5628. Cappings in class M12/(i) mortar.
 - Cement should be in accordance with BS 12, BS146: Part 2, BS 4027 or BS 5224.
 - Aggregates should be in accordance with BS 882, BS 1200, BS877:Part 2 or BS 3797: Part 2. Colour pigments should comply with BS 1014 and should not exceed 10% by mass of the cement content.
 - Plasticizers are permitted and should comply with BS 4887 and be used in strict accordance with the manufacturer's instructions.
 - Mortar cube testing, where identified, should be in accordance with BS 5628 Part 1 and the results issued to The Engineer immediately.
 - Movement joints to be provided at a maximum of 6m c/c.
 - Installation and construction details of STEPOC wall in accordance with Anderson's Concrete specification and details. First course of Stepoc blocks to be set on class M12/(i) mortar under edges only to allow concrete infill to bond with base and seal.
 - Masonry to be tied to Stepoc/R.C. wall stem with Ancon SPB wall tie face fixed to Stepoc/R.C. @ 450mm vertically and 900mm horizontally.

Indicated laying pattern is a suggested/indicative pattern and is subject to the chosen manufacturers recommendations and installation guidelines.

- 1. GABION SPECIFICATION:**
Gabions units to be manufactured from hexagonal double twisted steel wire mesh type 8x10, wire diameter 2.70mm (3.70 mm OD incl polymer coating) as per BS EN 10223-3:2013. The steel wire used for manufacturing gabions shall be heavily galvanized with Galmac (Zn-5%Al alloy) in compliance with BS EN 10244-2.
A polymer extruded coating in compliance with BS EN 10245-1 with a nominal thickness of 0.50 mm, shall be then applied to provide added protection for use in hydraulic works, polluted environments or wherever the risk of corrosion is present.
Gabions shall be divided into uniformly partitioned cells by internal diaphragms.
Certified and approved by the British Board of Agrément (BBA) No. 95/3141 and may be considered to a life expectancy of 120 years in dry land retaining walls.
- 2. INSTALLATION:**
Please refer to manufacturers Installation Guidelines.
- 3. STONE FILL SPECIFICATION:**
Please refer to drawings and manufacturers recommendations for stone fill specification details.
- 4. BACKFILL TO GABION WALL:**
Backfill to be free draining granular material, SHW class 6N.
- 5. FOUNDATION:**
300mm granular compacted material Type 1 SHW at formation level. Soft areas to be replaced with compacted granular material to limit differential settlement.
- 6. TYPICAL FRONT FACE STEP:**
As shown on drawings.
- 7. GABION LEGEND:**
A=2x1x1m UNIT
B=1.5x1x1m UNIT
C=2x1x0.5m UNIT
S=Stretcher
H=Header

- 8. SAFETY:**
Safe angle of repose in short term to be determined on site by contractor.
- 9. MATERIALS:**
Macaferri woven gabions, galvanised
300mm compacted granular foundation.



DETAIL 1
Fence Post Concrete Pocket Detail
(1:20)

C2	17/12/24	Timber p&r fence noted to rear of gabions	LH	RF
C1	23/09/22	Revised For Construction, notes added, Detail 2 dimensions amended	MC	RF
T2	09/08/22	Type S4-S4 detail added.	LH	RF
T1	24/02/22	First issue.	LH	RF
REV. No.	DATE	DESCRIPTION	DRAWN	CHECKED
Client				
Vistry Group			MJA CONSULTING	
Project			Boorley Green, Gateway	
Title			Retaining Wall Details	
Scale:			AS SHOWN @A0	
Status:			CONSTRUCTION	
Drawn:			Project Engineer MJA Project No: 6663	
Date:			24/02/2022	
Drawing Number:			6663-MJA-SW-XX-DR-S-1171	
Rev:			C2	