

- 1) DIMENSIONS IN MMS UNLESS OTHERWISE SPECIFIED.
This drawing is based on the information shown on the supplied information and drawings.
- 2) GABION BASKET SPECIFICATION:
MACCAFERRI HEXAGONAL WOVEN WIRE MESH (POLYMER COATED)
- 3) INSTALLATION:
Please refer to standard Maccaferri installation guidelines.
Gabions to be constructed in accordance with BS14475:2006(E). Some settlement (compression) gabion units can occur, a high standard of installation will ensure settlement does not exceed the recommended tolerance of 5%.
- 4) FILL FOR GABION BASKETS:
Class G6 Gabion Stone as described in the 'Series 600'. Specification for Highway Works. The stone fill should be hand placed to a high standard according to the manufacturer's instructions.
- 5) BACKFILL TO GABION WALLS:
The backfill for the walls is to be compacted Class 6F2 granular fill. This material is assumed to have the following characteristics: $\Phi_{10} = 35$ degrees, $\Gamma_{max} = 16 \text{ kN/m}^3$ and $c = 0 \text{ kPa}$, compacted in accordance with SFHW Series 600, Part 6/4.

6) FOUNDATION FOR GABION WALL:
To achieve a suitable foundation for the Gabion baskets, excavation must take place down to the levels indicated on the drawing and allow for the placement and compaction of a minimum 150mm thickness of selected granular material (Class F62 with assumed properties of $\Phi_i = 35$ degrees, $\text{Gamma} = 18 \text{ kN/m}^3$ and $c' = 0 \text{ kPa}$).

We would suggest plate bearing tests are carried out at proposed formation level. Plate bearing tests C14.1, 6.4.2, the plate should be loaded to at least 250kPa in 50kPa increments. If original cohesive material is found at formation level, hand shear vane tests could be carried out to confirm a minimum undrained shear strength (c_u) of 60kPa. If any material with an undrained shear strength of <60kPa is left in place at or below formation level, excessive settlement and/or global instability may occur.

Foundation (competent firm to stiff sandy gravelly CLAY.); this material is assumed to have the following minimum properties;
 $\phi' = 28^\circ$ $\gamma = 19 \text{ kN/m}^3$ $c' = 0 \text{ kPa}$

9) TYPICAL BATTER/ FRONT FACE STEP:
The wall is to be constructed at a 6° batter, with a 150mm step at the face of each course.

10) TEMPORARY EXCAVATIONS:
This solution is for the permanent works only, and is issued on the basis that a safe system of works is provided for construction. The Principal Contractor installer must produce a method statement and risk assessment for the works to be approved by the Clients Consulting Engineer. Temporary stability and design of any temporary works is outside our scope and should be confirmed by a Temporary Works Designer appointed by the Principal Contractor.

11) CONSTRUCTION TRAFFIC OPERATING CLOSE TO THE WALLS: Construction traffic/machinery should not traffic the unprotected crest area of the walls, as this can cause movement of the Gabions. If construction plant is to traffic at the rear of the walls, a suitable haul road design must be undertaken (by others).

12) PEDESTRIAN PROTECTION:
Any vehicle barrier requirements, impact loads and barrier solution are to be determined by others.

13) NON-COMPLIANCE WITH LOCAL AUTHORITY REQUIREMENTS
We assume that Technical Approval of the wall by the Local Authority is NOT required. This should be confirmed by the Principal Contractor/ Principal Designer. Please advise us prior to construction if Technical Approval is required, as the design will need to be altered. Any AIPs, etc must be submitted and approved by the Local Authority prior to construction commencing.

14) SETTING OUT
Setting out of the walls is outside Geoman's scope and is to be provided by the Scheme Designer. The wall line is as per drawings provided. Fenceline is offset from toe as shown on the sections- any required correction to toe line to accommodate to be confirmed prior to construction.

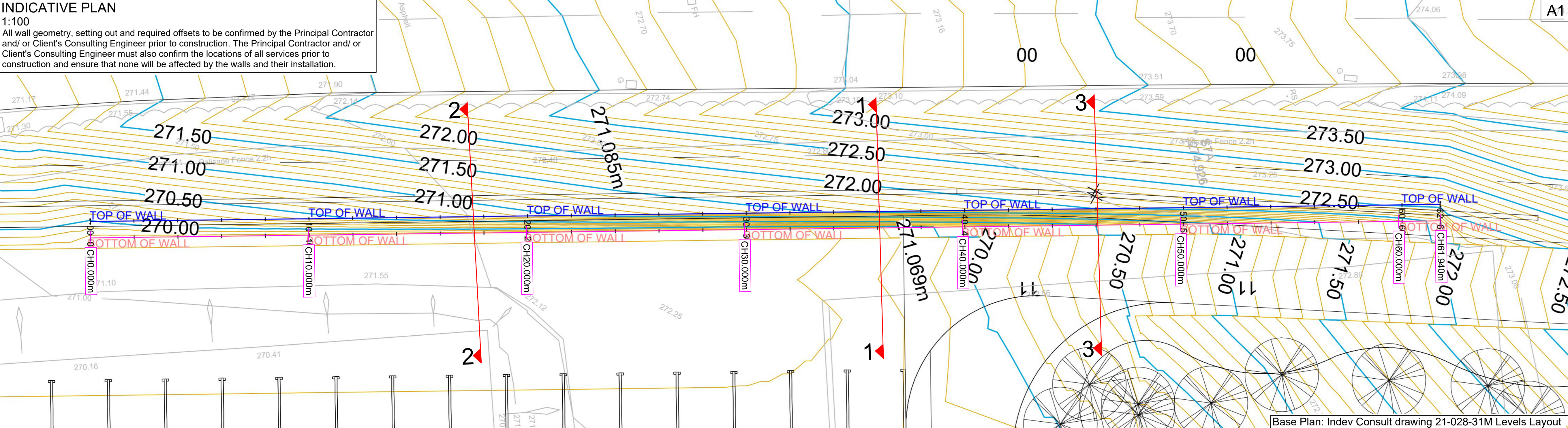
15) CONSTRUCTION
Gabions to be constructed in accordance with BS14475:2006(E). Some settlement (compression) gabion units can occur, but a high standard of installation will ensure settlement does not exceed the recommended tolerance of 5%

Construction of the wall shall not commence unless and until the Client/ Client's Consulting Engineers has considered the Geoman Design Submission Document (23-6011-F2) to ensure there are no errors, omissions or conflict with the scheme design.

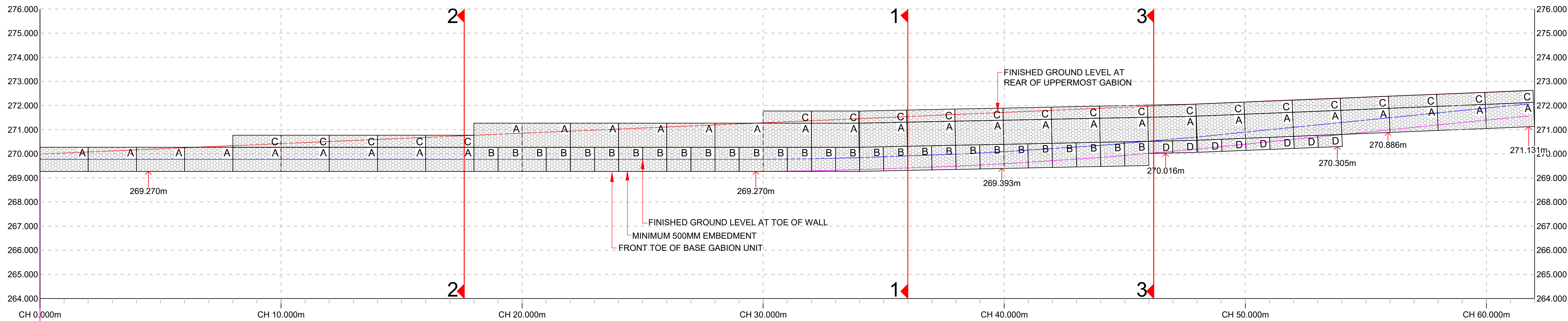
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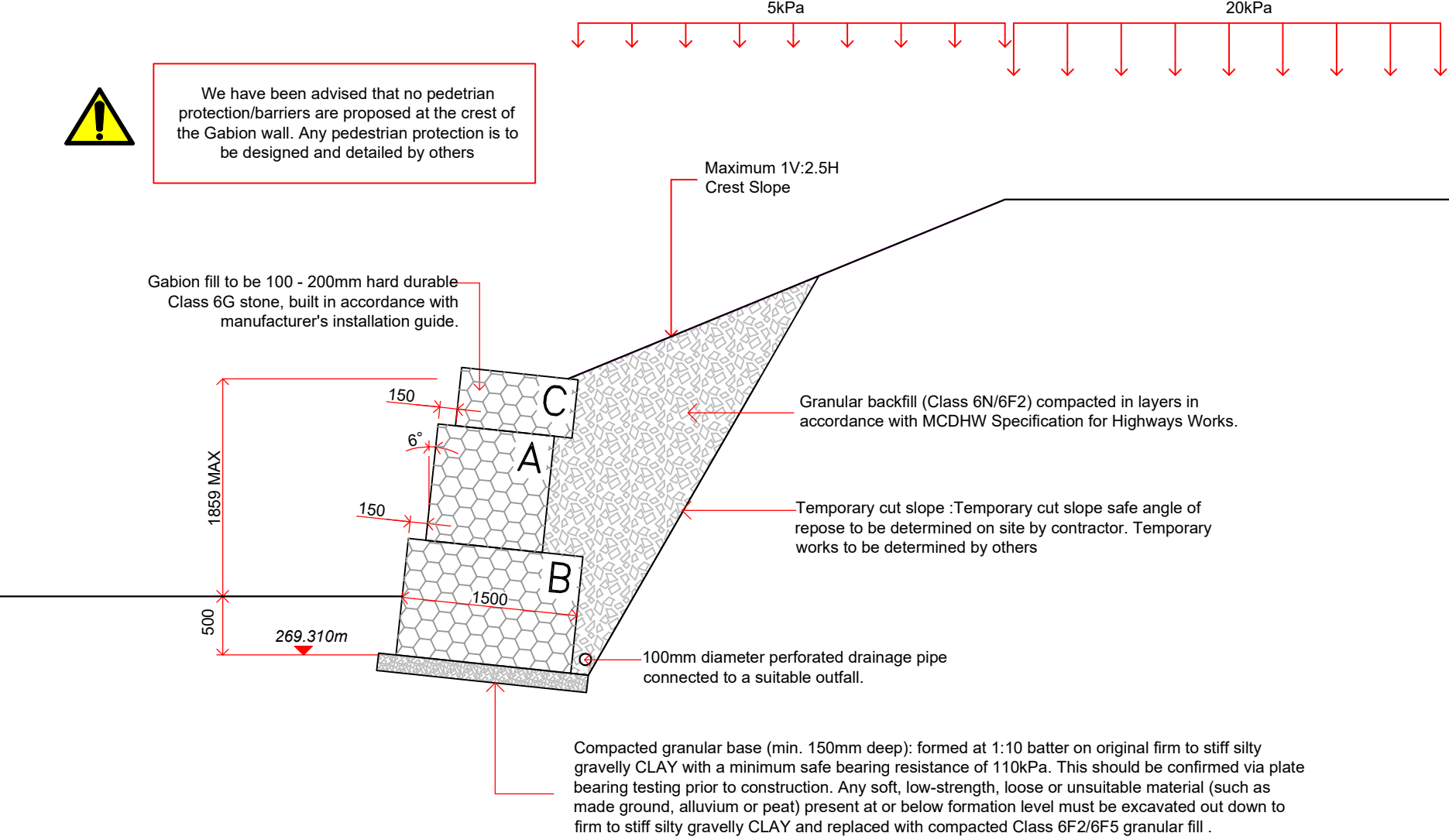
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All wall geometry, setting out and required offsets to be confirmed by the Principal Contractor and/ or Client's Consulting Engineer prior to construction. The Principal Contractor and/ or Client's Consulting Engineer must also confirm the locations of all services prior to construction and ensure that none will be affected by the walls and their installation.



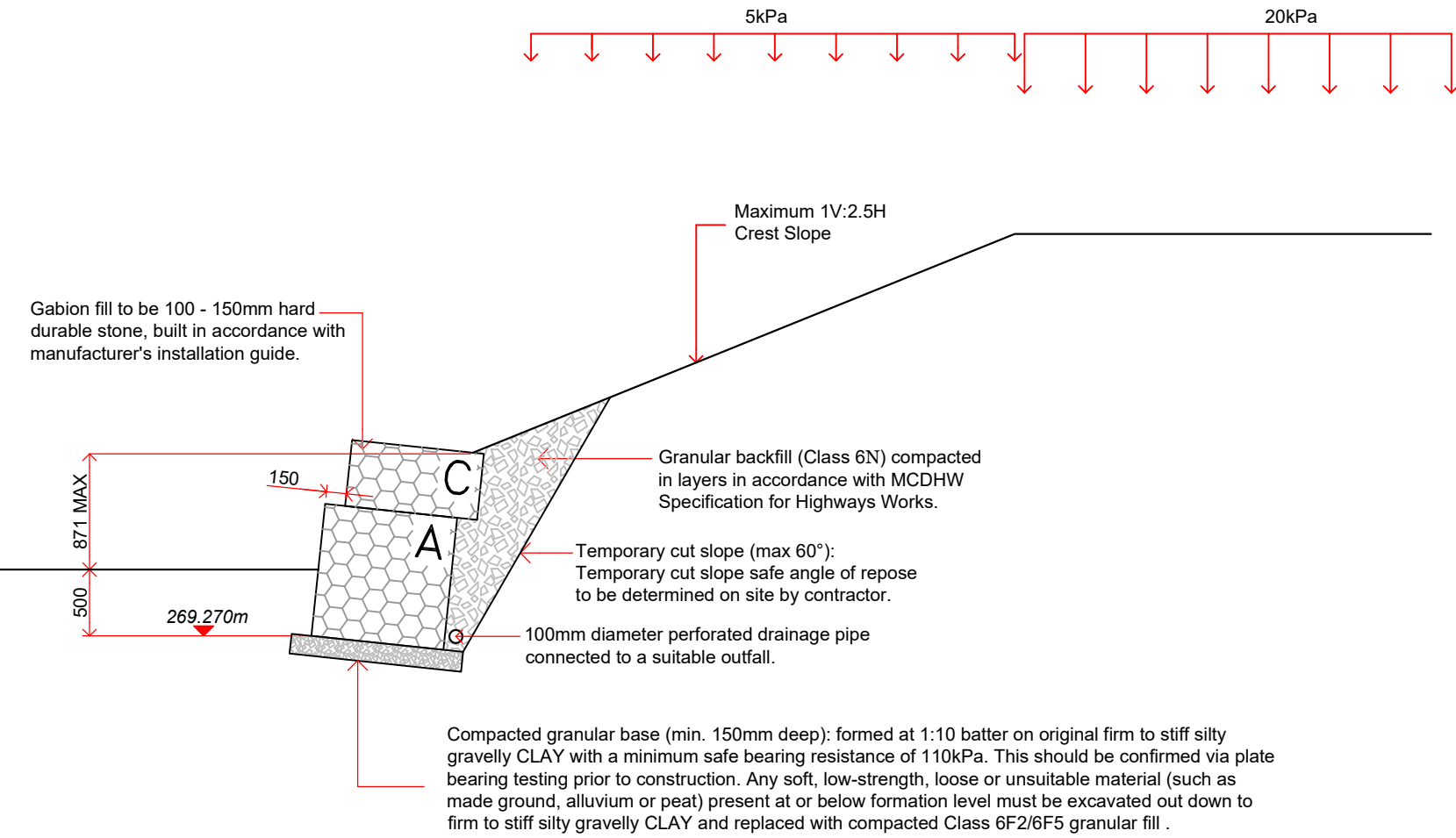
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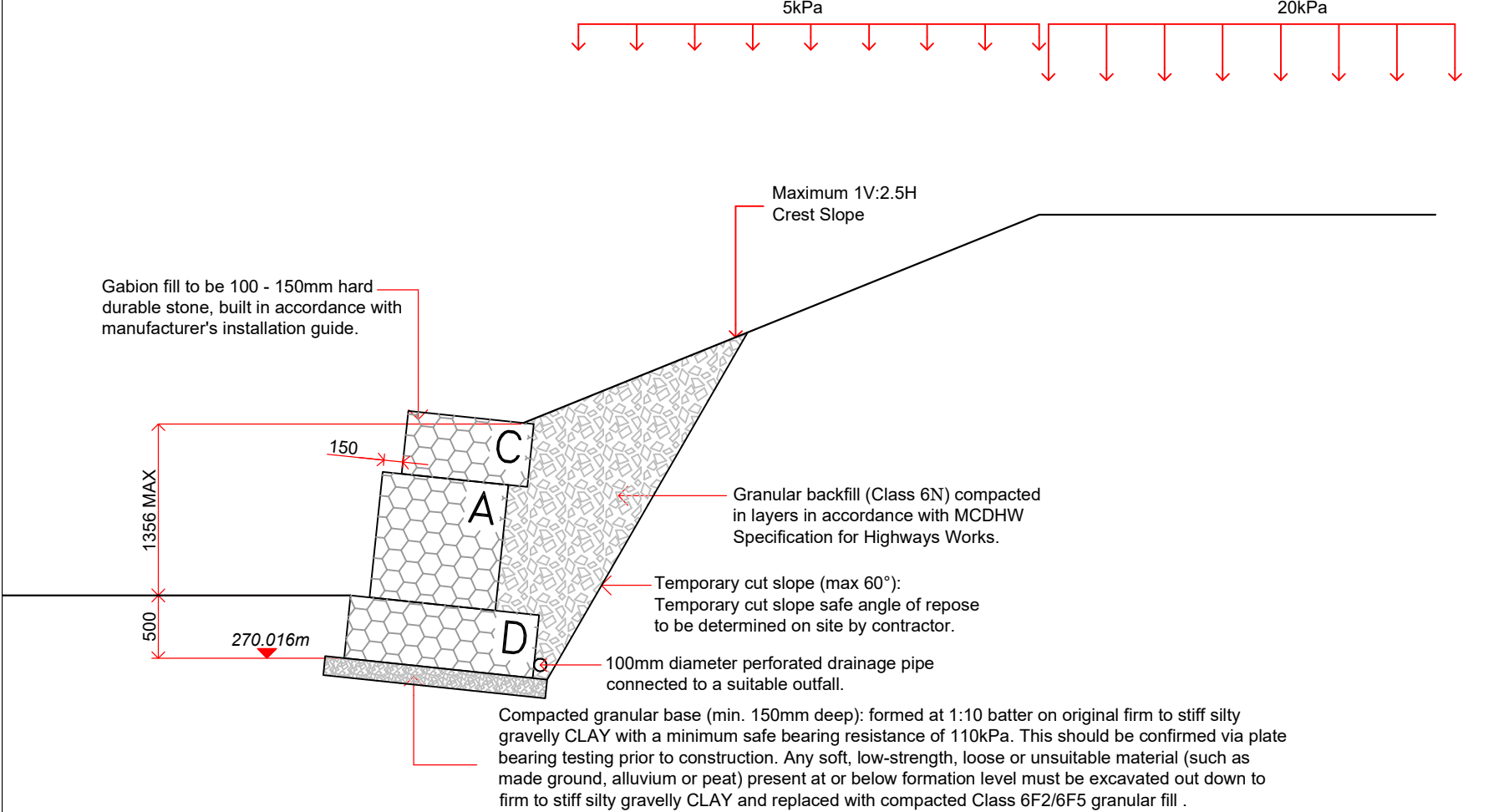
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	Drawing Title:	GABION RETAINING WALL	Designed:	ST	Date:	11/09/2024	Project Title:	BCA SCHOOL, MERTHYR	 T: 01865 770555 E: technical.uk@maccaferri.com E: construction.uk@maccaferri.com T: +44 (0)2890 664 941 E: geoman@geoman.co.uk Maccaferri Ltd will not be liable for any loss or damage resulting from your use of or reliance on this document. Maccaferri Ltd assumes no responsibility for drawings and calculations provided, as they must be intended as a general indication to suggest the proper use of its products. This drawing, or design proposal, remains the copyright of Maccaferri Ltd and is not to be copied or disclosed to any persons other than the person to whom it is originally intended.
	Scale @ A3:	Unit: MM Project Number: Z3-6011-F2	Drawn:	ST	Date:	11/09/2024	Client:	WILMOTT DIXON	
P01	Drawing Number:	BCA-GEO-VX-XX-D-C-1001	Revision:	C01	Date:	11/09/2024	Drawing Status:	CONCEPT/PRELIMINARY ONLY ☐ FOR APPROVAL ☒ FOR CONSTRUCTION ☒ AS BUILT ☐	
Status/Rev:	Description:		App:						
	ST	-	11/09/2024						
	Drawn:	App:	Date:						