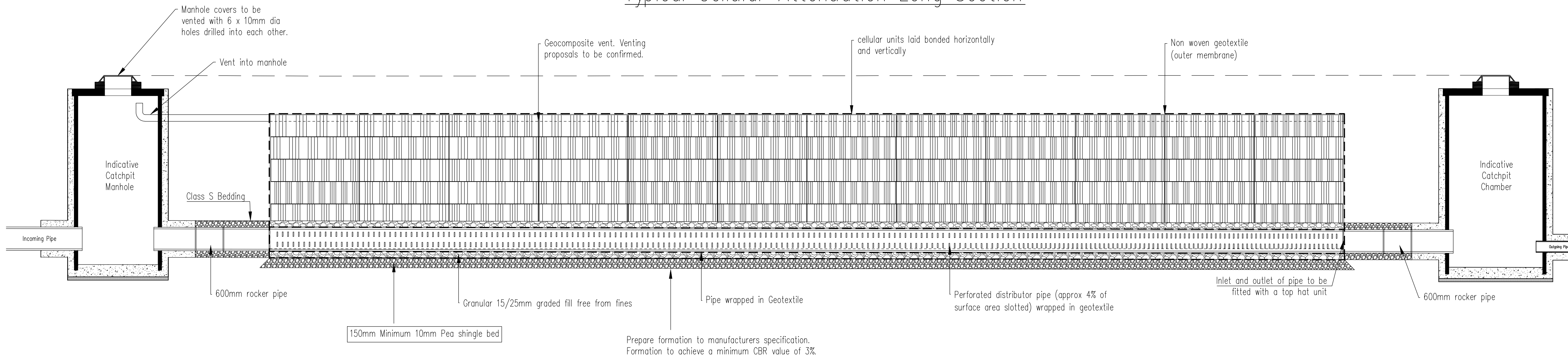
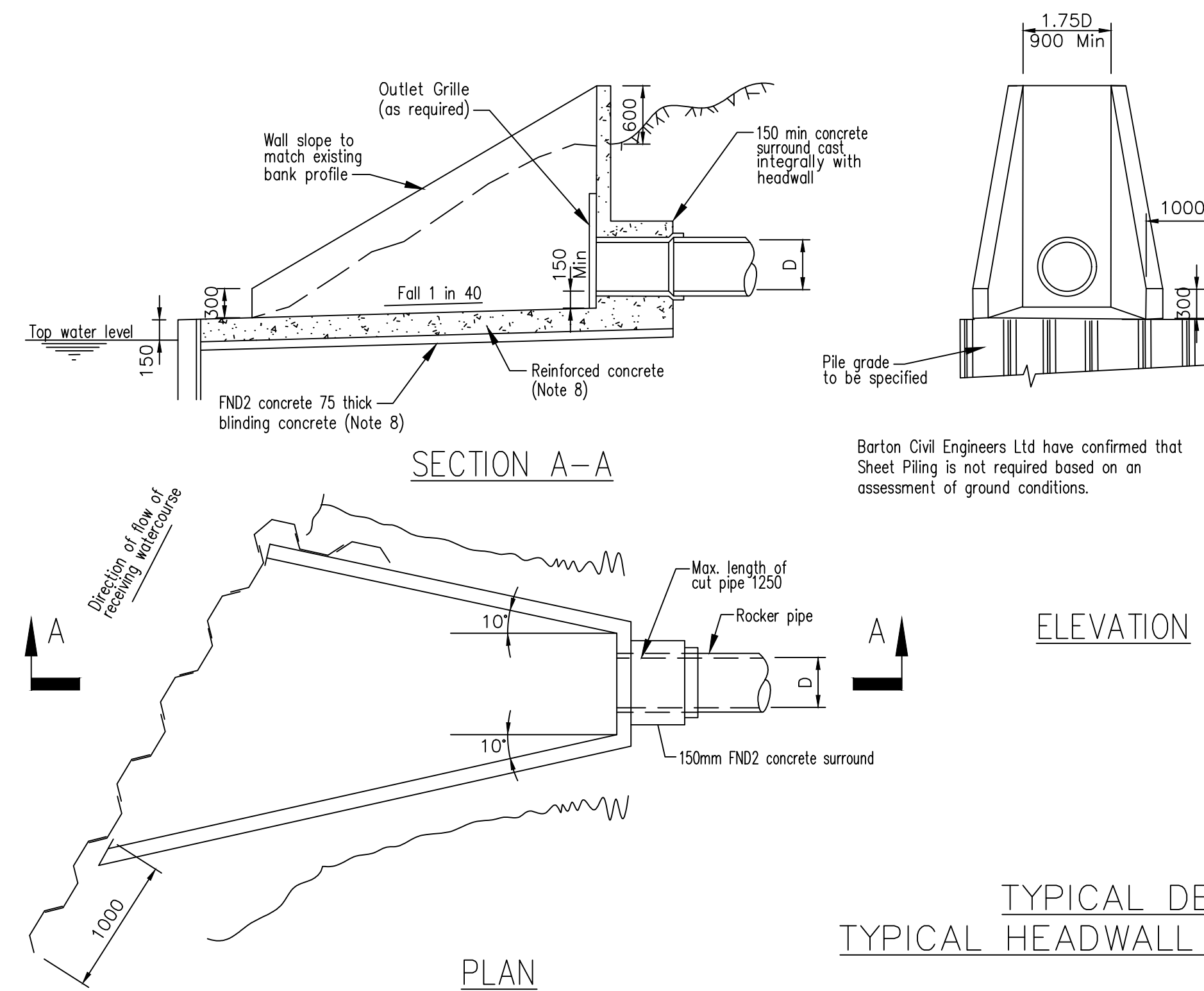
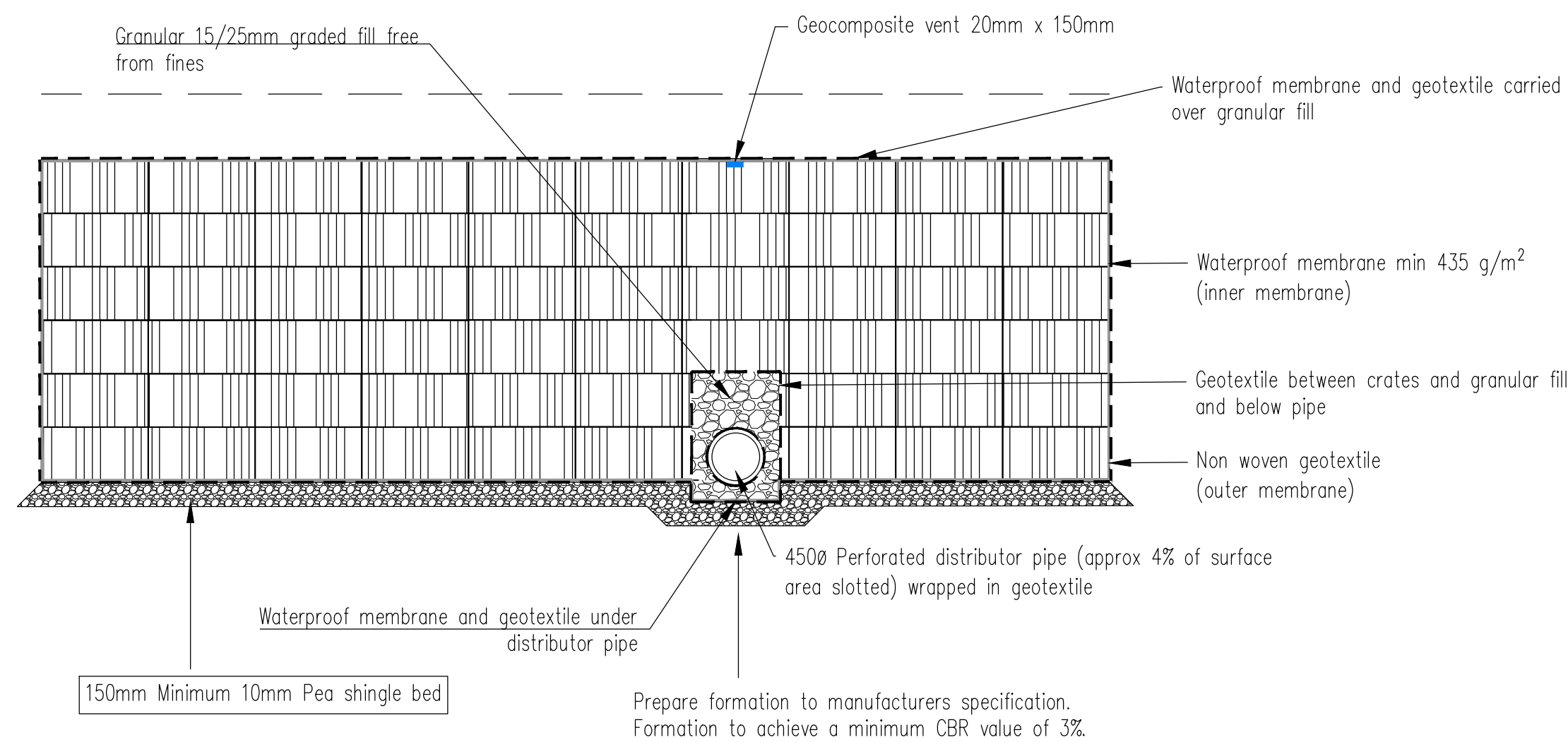


Typical Cellular Attenuation Long Section



Typical Cellular Attenuation Cross Section



- HEADWALL NOTES:

1. Generally the angle between the direction of flow of the receiving watercourse and the outfall pipe should be 45°.
2. All reinforced concrete edges to be finished with a 25 x 25 fillet.
3. Min cover to reinforcement in the top face of the base slab to be 40.
4. The bed and opposite bank of the watercourse may in certain circumstances need to be protected by 225 to 300 thick uncoursed rubble pitching laid on a 100 thick bed of M20 concrete (Note 8) and pointed in Class M1 Mortar. The stone for pitching shall consist of large smooth faced stones roughly dressed square and shall be of a hard durable and inert material. Bunter sandstone, Keuper waterstones and Carboniferous shales and mudstones are not to be used.
5. An Outlet Grille as shown on Section A must be provided on all outfalls where the pipe size exceeds 450mm. Where pipe diameters are 375 to 450, 20 dia. stainless steel c/bars are to be provided across outlet at max. 120mm c/c leaving 100mm clear opening.
6. Where outlets have a flap valve, a special detailed grille must be provided on all outlets 375mm diameter and above.
7. Section handling shall be supplied where a person may fall 2 metres or more or where a fall of less than 2 metres carries on increased risk of injury due to the landing surface.
8. FN20 to be used for soil conditions Sulphate class 1 only. Designated mix references FN03, FN04A & FN04B to be used in soil conditions with sulphate classes 3,4A and 4B respectively.

[illegible]

REV.	DESCRIPTION	DRAWN	APPROVED	DATE
STATUS				

PLANNING

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Client

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Project
TIGH AN UILLT
INVERAE FARM ROAD
MINARD, PA32 8YF

Title
DRAINAGE DETAILS

Drawn	AJ	Checked	JJ	Drawing number 23129-003	
Date	11/09/25	Date	11/09/25		
Scale	1:100		A1		