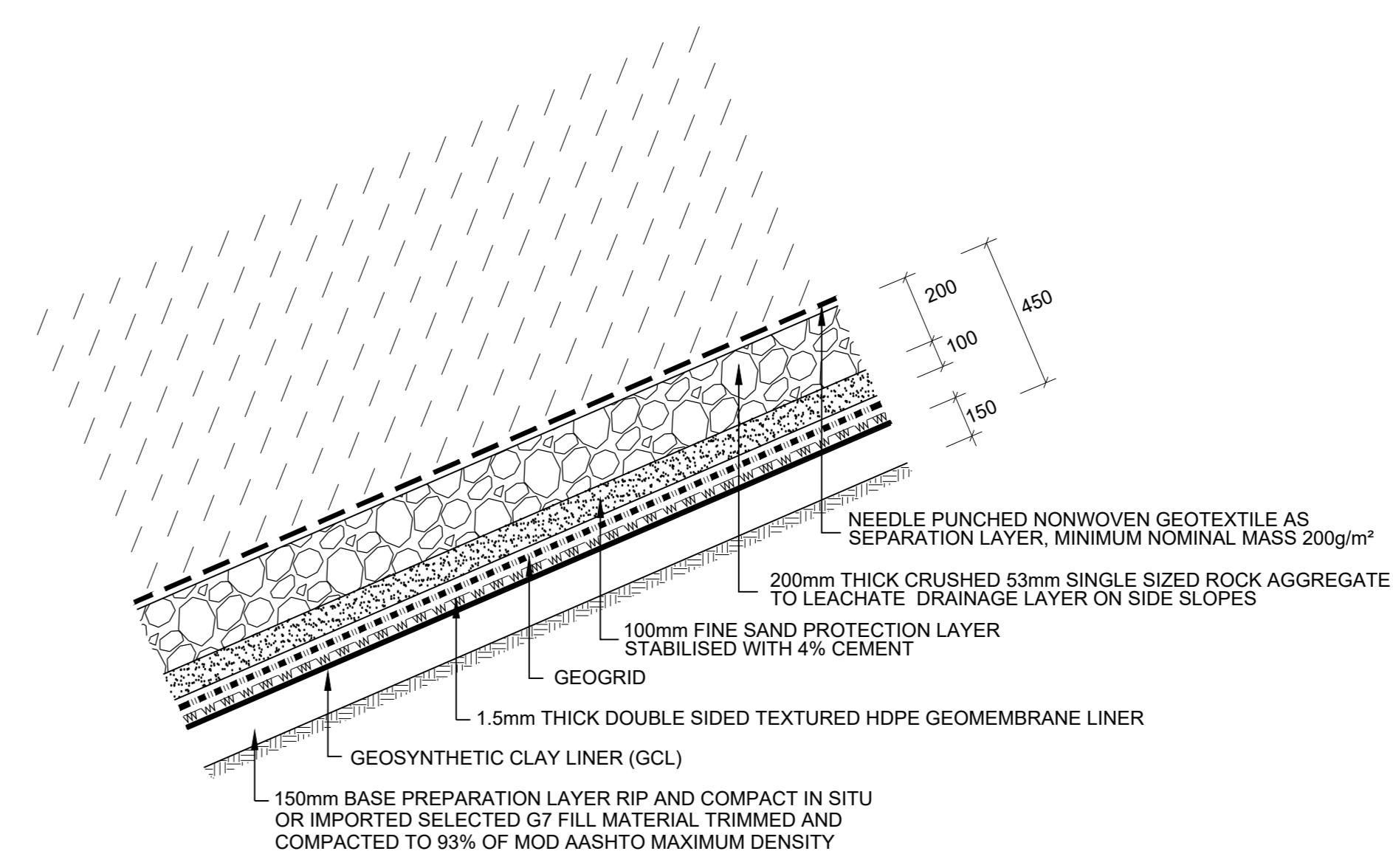


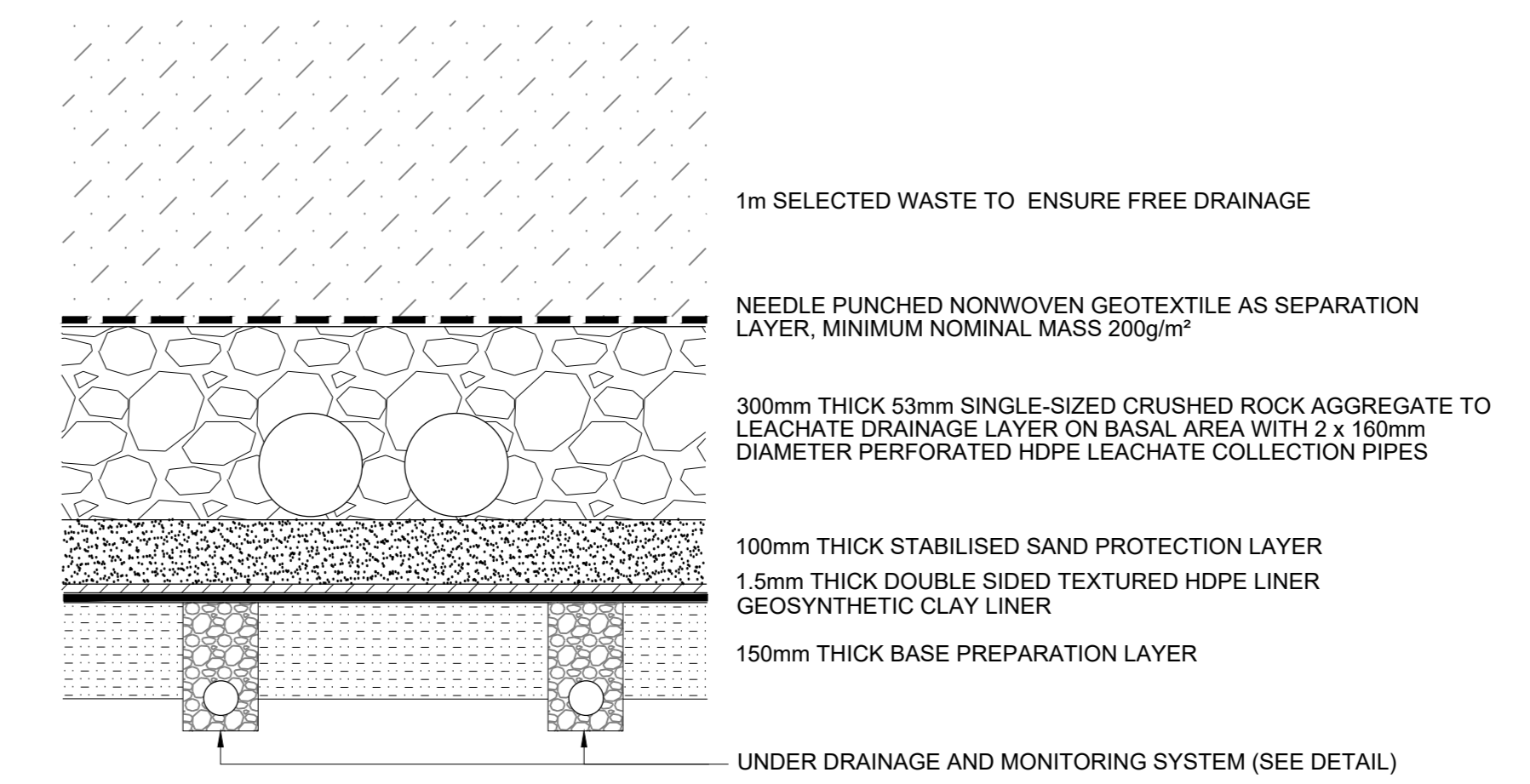
TYPICAL CROSS-SECTION DETAILS
NOT TO SCALE

- VALLEY LINE NOTES -
1. VALLEY LINE TO BE EXCAVATED TO A FIRM EVEN BASE MINIMUM 3m WIDE AS DIRECTED BY ENGINEER.
 2. DUMPROCK TO BE USED TO FILL NARROW STREAMBED IF SOLID ROCK IS ENCOUNTERED.
 3. SAND FILL TO BE USED AS DIRECTED BY ENGINEER

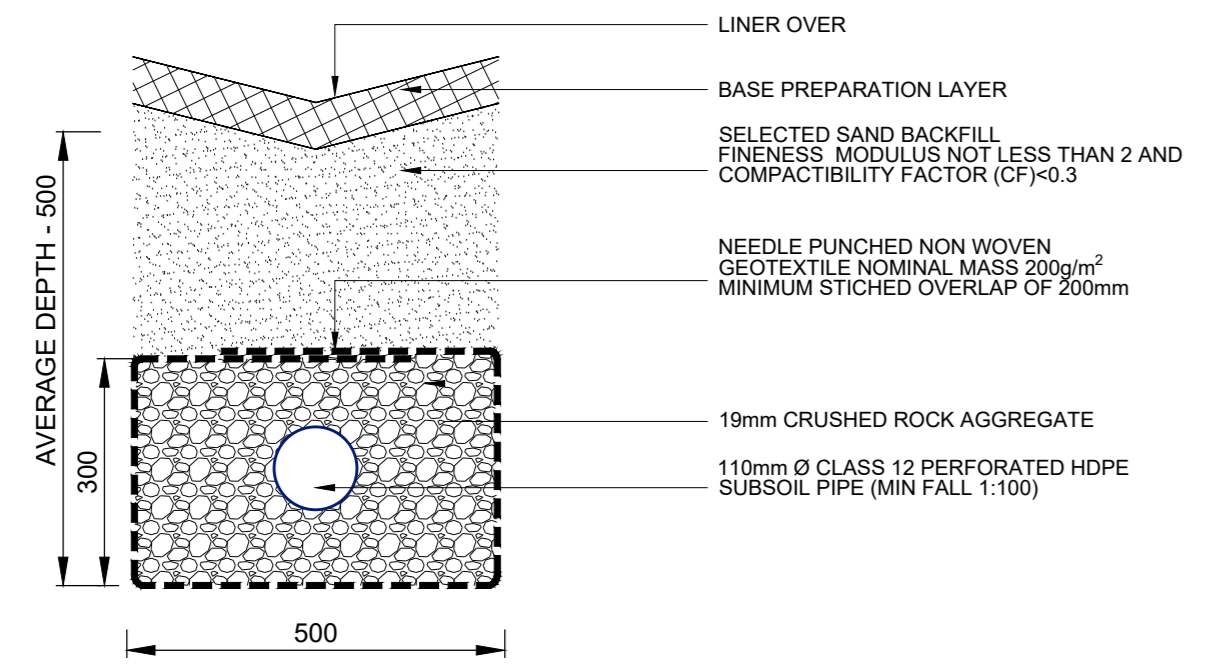
- NOTES -
1. FILTER MATERIAL MUST SATISFY THE FOLLOWING CRITERIA -
FOR PIPING : D F₁₅ ≤ 0.4mm
FOR PERMEABILITY : D F₁₅ ≥ 0.05mm
FOR COMPATIBILITY : D F₁₅ ≤ 3.25mm
 2. SUBSOIL DRAIN PIPE CRITERIA -
HDPE PIPE : CLASS 12
HOLE DIAMETER : ≥ D F₁₅
SLOT WIDTH : ≥ D F₁₅ x 0.83
- (WHERE D F₁₅ IS THE SIEVE SIZE WHICH WOULD PERMIT 15% OF THE FILTER MATERIAL (F) TO PASS)



TYPICAL SIDE SLOPE CONTAINMENT
BARRIER DETAIL (SSL)
SCALE 1 : 20

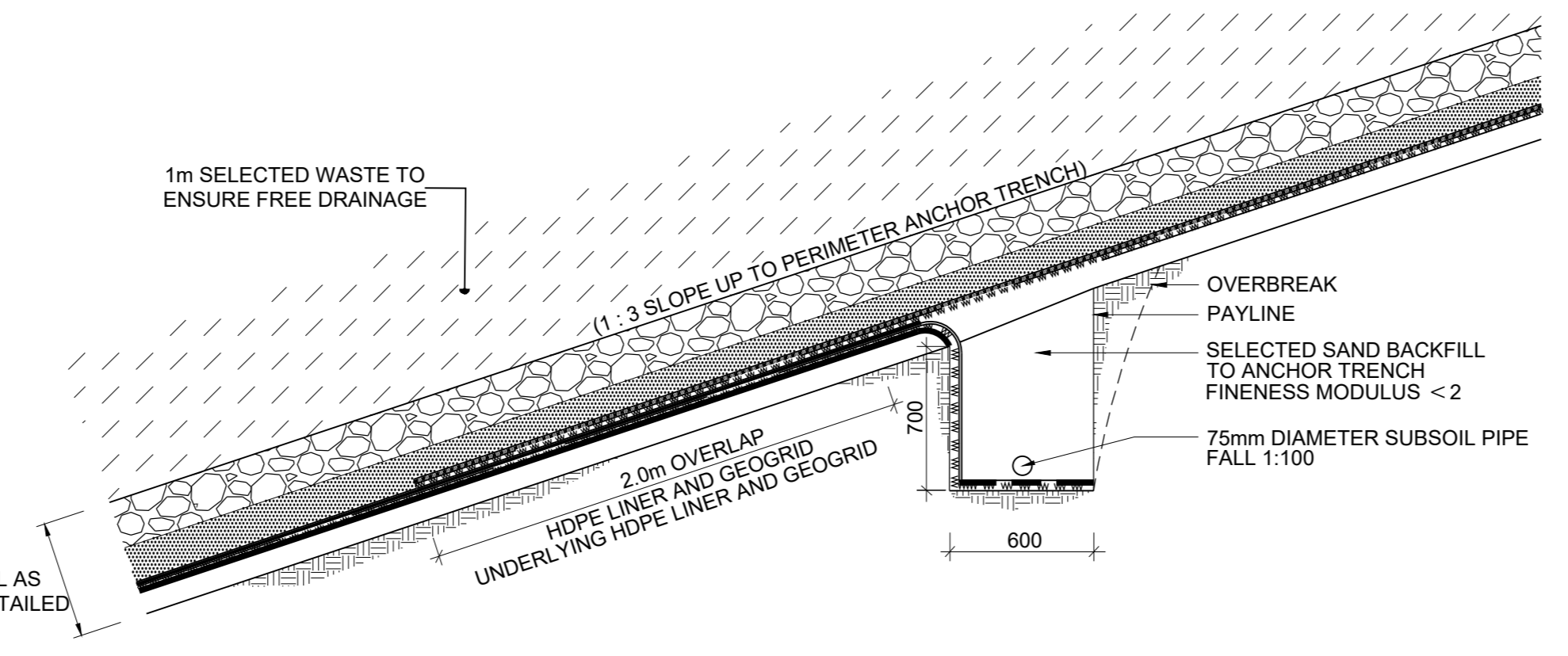


TYPICAL VALLEY BASAL CONTAINMENT BARRIER DETAIL (VBL)
NOT TO SCALE

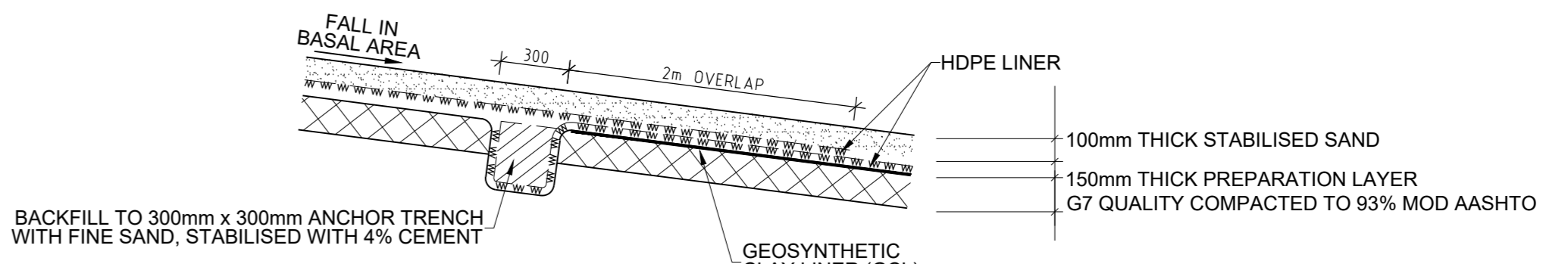


UNDER DRAINAGE AND MONITORING SYSTEM
(DETAIL A)
NOT TO SCALE

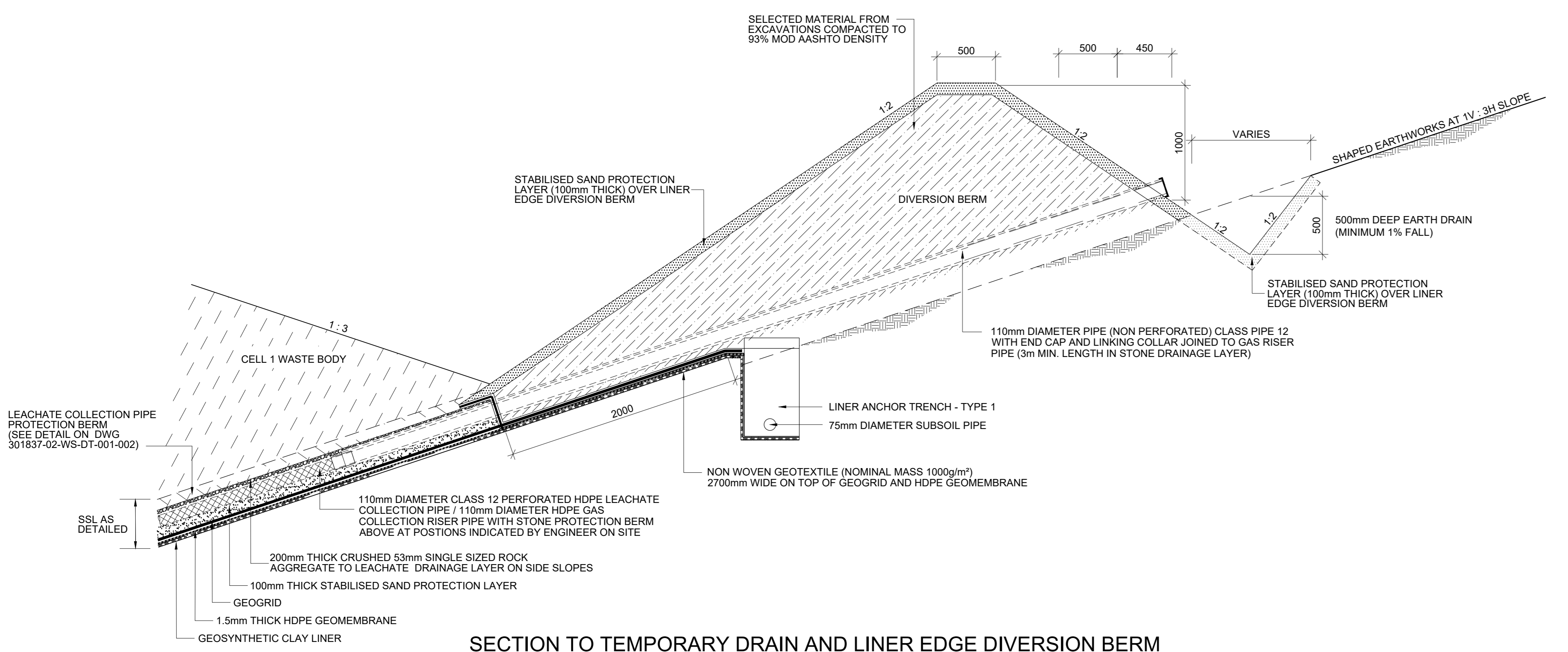
- EARTHWORKS NOTES
1. FINISHED BLK EARTHWORKS (BASE PREPARATION LAYER) SHALL BE SMOOTH AND FREE FROM PROTRUSIONS THAT COULD PUNCTURE THE GEOMEMBRANE LINER. ALL EARTHWORKS SHALL BE APPROVED BY THE ENGINEER BEFORE ANY GEOSYNTHETICS ARE LAID.
 2. BASE PREPARATION SHALL INCLUDE SCRAPING AND COMPACTING INSITU MATERIAL TO 93% OF MOD - AASHTO MAXIMUM DENSITY.
 3. UNLESS OTHERWISE SPECIFIED ELSEWHERE, ALL EMBANKMENT FILL MATERIAL SHALL BE SOIL MATERIAL OF G2 CLASSIFICATION COMPACTED TO 98% OF MOD - AASHTO MAXIMUM DENSITY IN LAYERS NOT EXCEEDING 100mm THICK.
 4. ALL TYPE 2 GEOSYNTHETICS ANCHOR TRENCHES IN THE BASAL AREA SHALL BE BACKFILLED WITH STABILISED SAND.
 5. ALL PROTECTION LAYERS ON TOP OF BERMS AND IN DRAINS SHALL BE STABILISED SAND.
- GEOSYNTHETICS NOTES
- 2.1 THE GEOMEMBRANE TO BE CLEAN AND DRY BEFORE SEAMING COMMENCES.
 - 2.2 TRIAL SEAM TO BE DONE BEFORE THE MAJOR WORKS COMMENCE TO CHECK THE CALIBRATION OF THE EQUIPMENT.



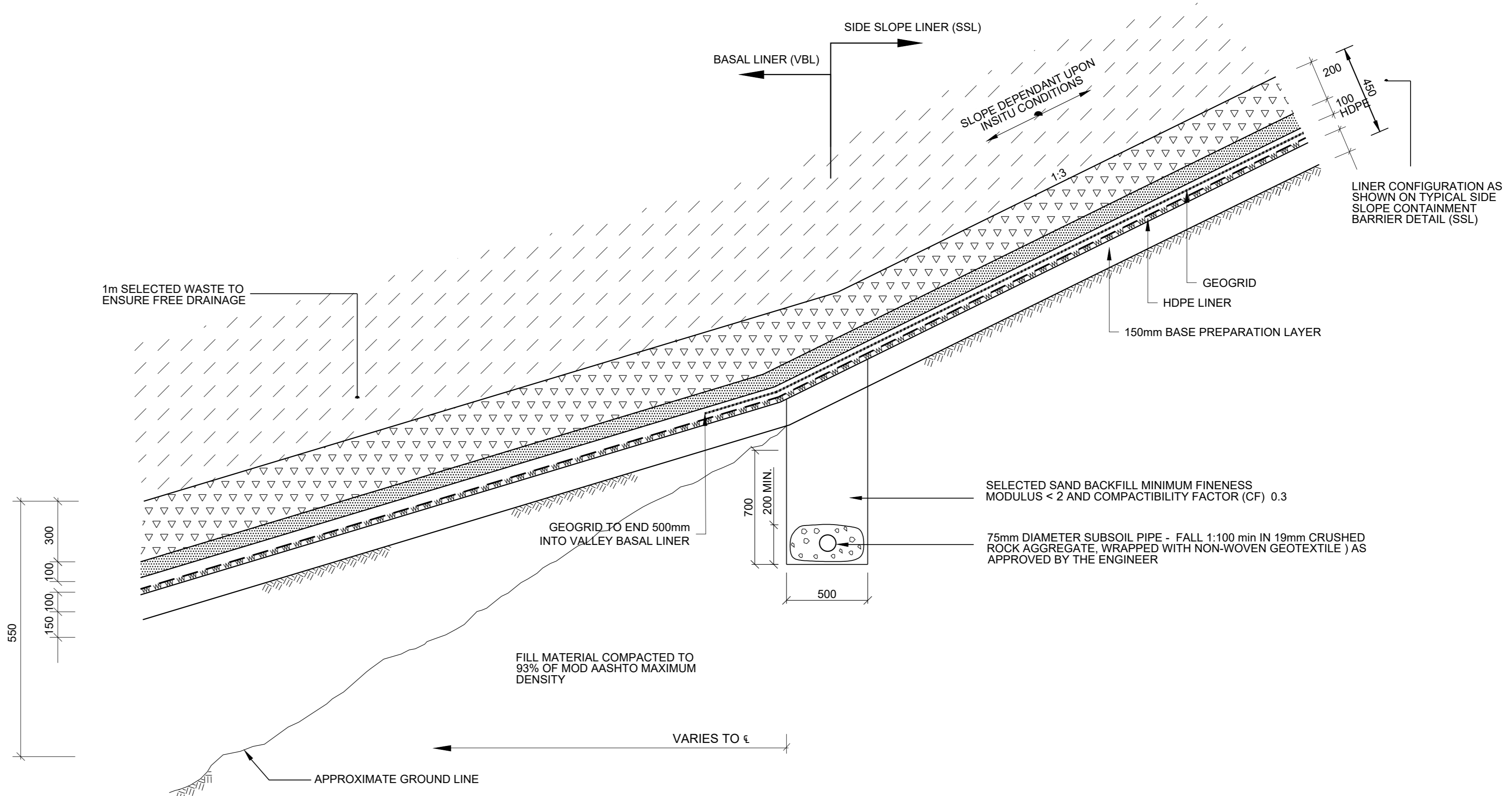
SECTION TO ANCHOR TRENCH DETAIL FOR
GEOMEMBRANE LINER - TYPE 1
SCALE 1:25



MINI ANCHOR TRENCH DETAIL IN BASAL AREAS (TYPE 2)
SCALE 1:25



SECTION TO TEMPORARY DRAIN AND LINER EDGE DIVERSION BERM
ALONG PERIMETER OF CELL 1 AND DAMS ANCHOR TRENCH
SCALE 1:25



VALLEY BASAL LINER (VBL) AND SIDE SLOPE LINER (SSL) - TRANSITION DETAILS
NOT TO SCALE

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B	27/10/2023	FOR TENDER ONLY
A	06/03/2023	FOR APPROVAL

Revision	Date	Description

NOTE: No construction work to commence until land and servitude acquisitions have been completed.

Acquisitions completed

NOTE: Only underground services affected by new construction work are shown. Care must be taken during excavations for road foundations, trenches etc. to avoid damage to underground services such as sewers, drains, cables, water mains and connections. Wherever possible these must be located before work proceeds.

SERVICE	DATE	SIGNATURE
S.W DRAINS		
WATER MAINS		
CLP / CABLES		
ELECTRIC CABLES		
S.A.R. CABLES		
E.S.C. CABLES		
CAL PIPE LINE		

DATE: 06/03/2023
L. Moodley
Deputy Head: Cleansing & Solid Waste - DSW

Contract No. **6W-30109**

Status: **FOR TENDER**

Project Title: **WWMF Contract B - Landfill Cell 1, Lined Dams and Platforms Construction**

Drawing Title: **TYPICAL LINER DETAILS**

Scales	Reference
AS SHOWN	
Designed N. DOOKHUIJ, PASS	Date 06/03/2023
Checked M. RICHMOND	Drawn by L. DU PLESSIS

Drawing No	Revision
301837-02-WS-DT-001-001	B