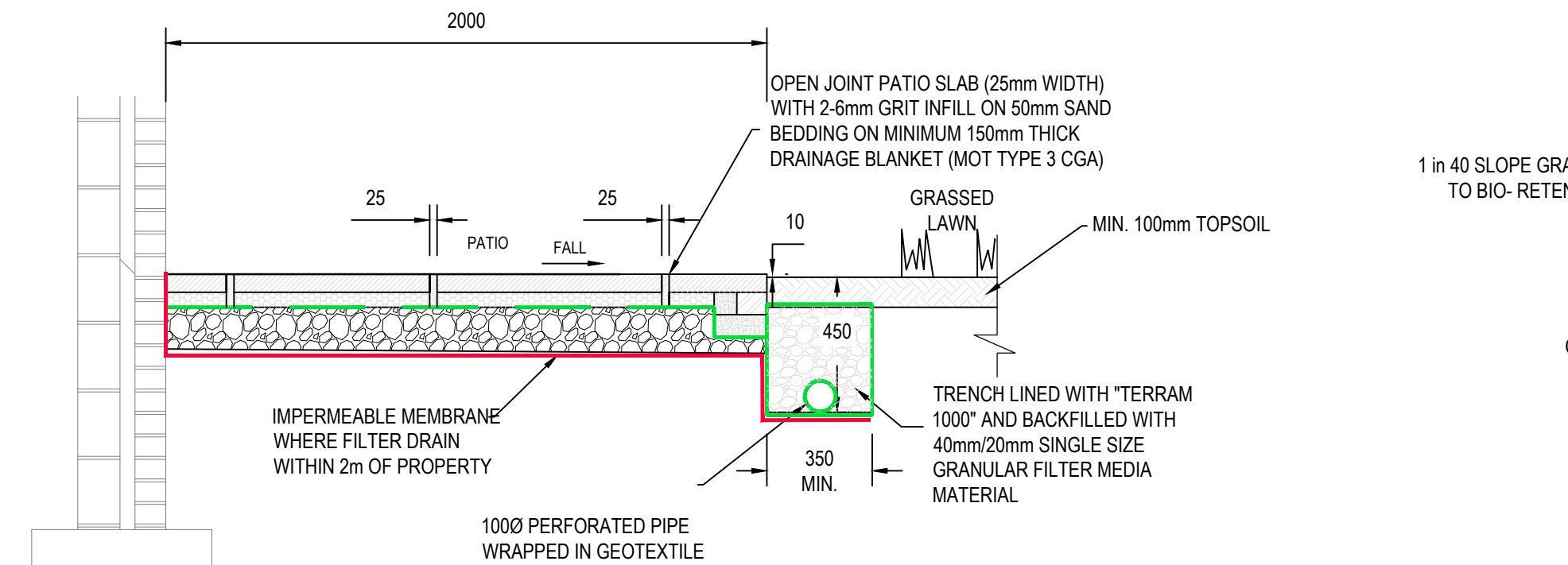
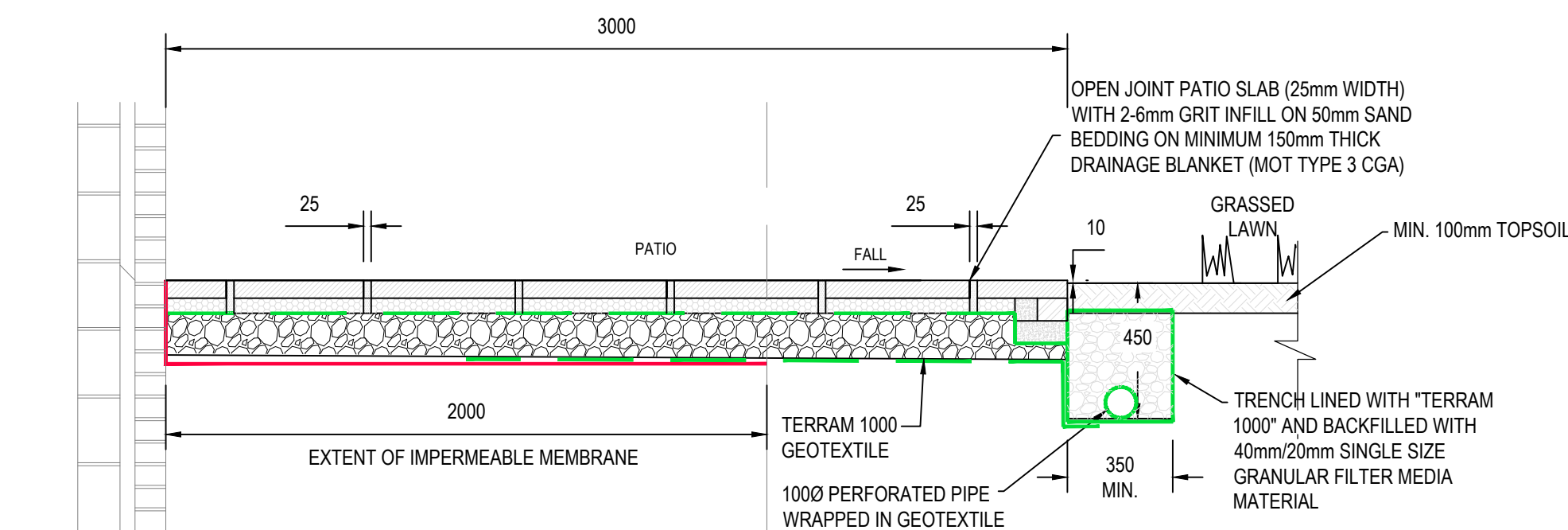
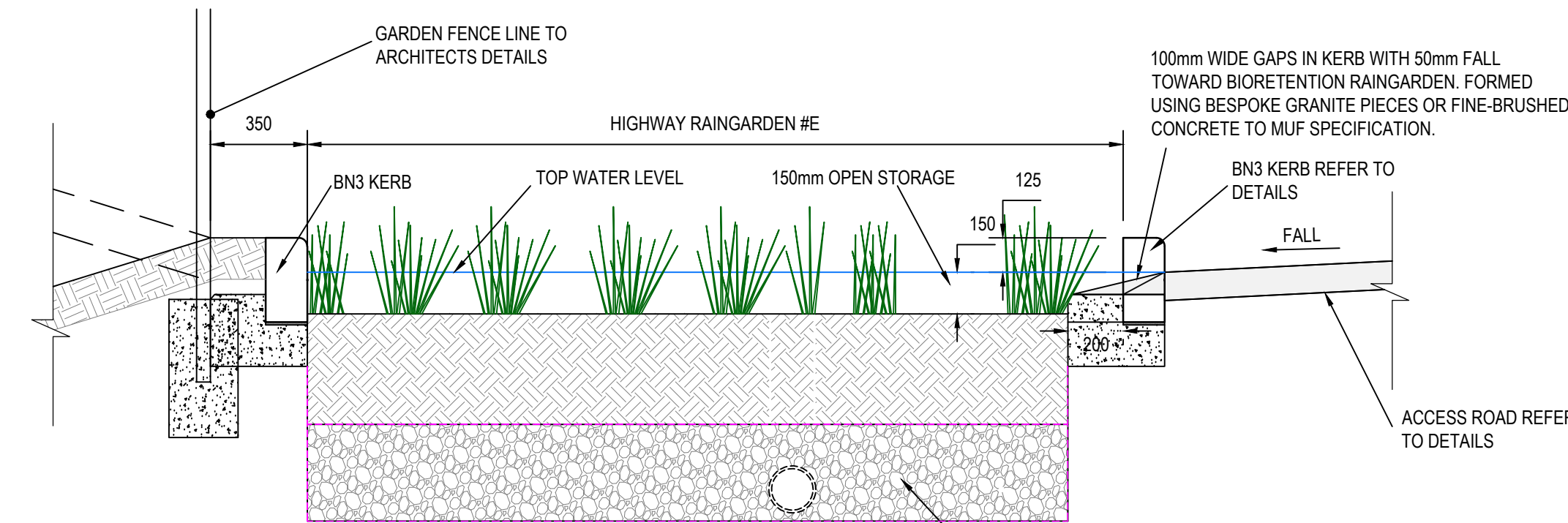




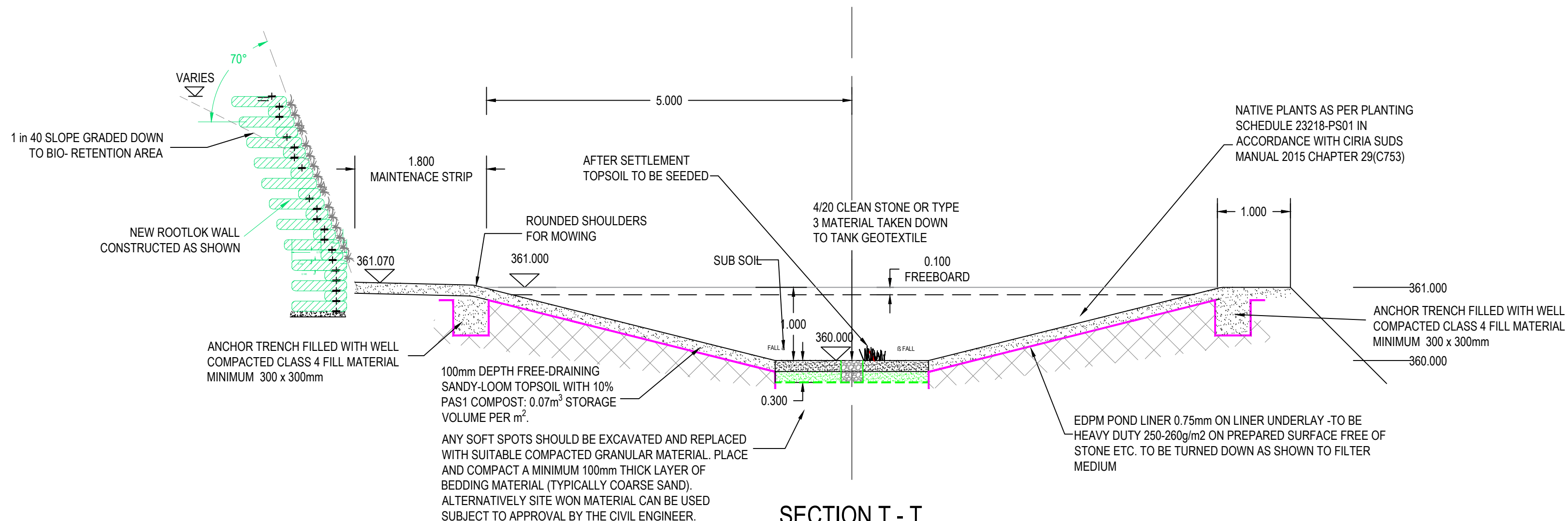
DETAIL H
DETAIL OF PATIO PERIMETER
FILTER DRAIN (up to 2m Long)



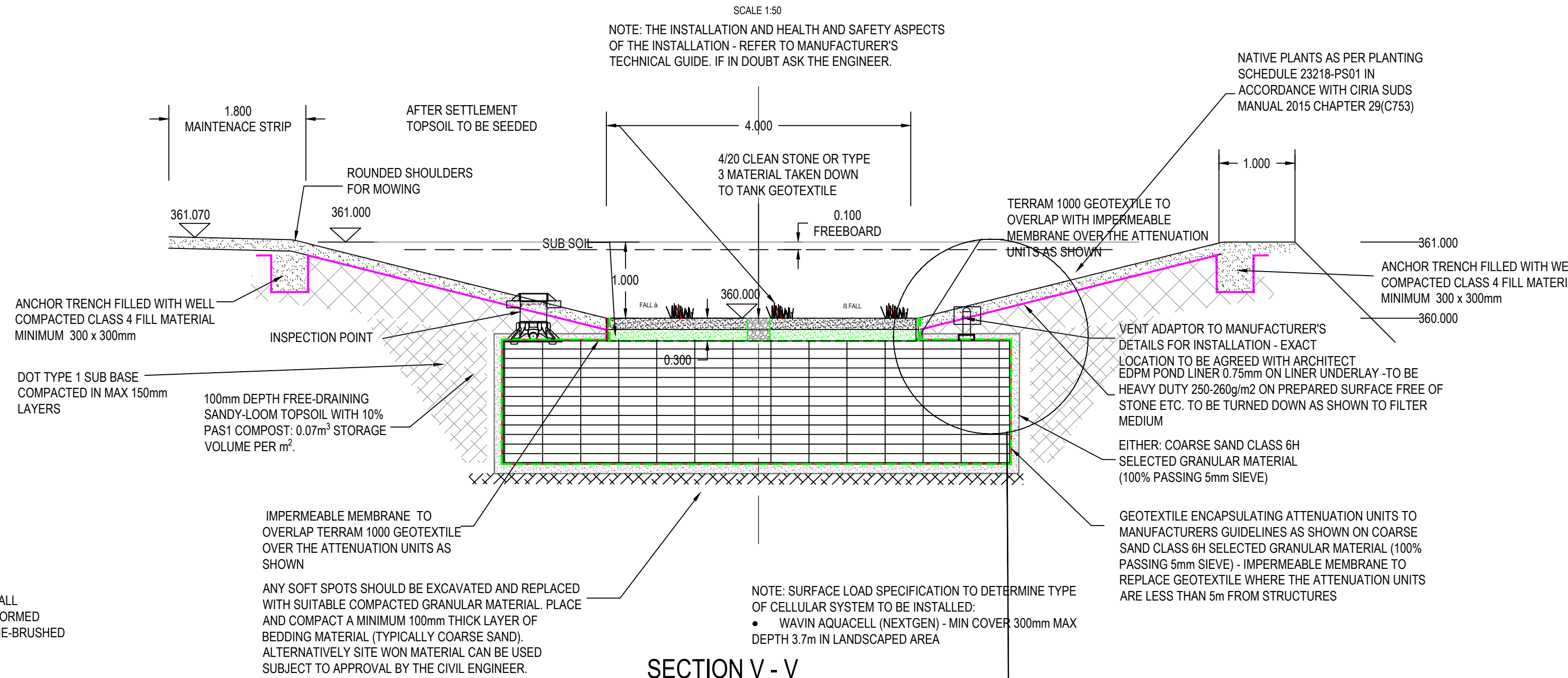
DETAIL J
DETAIL OF PATIO PERIMETER
FILTER DRAIN (3m and over)



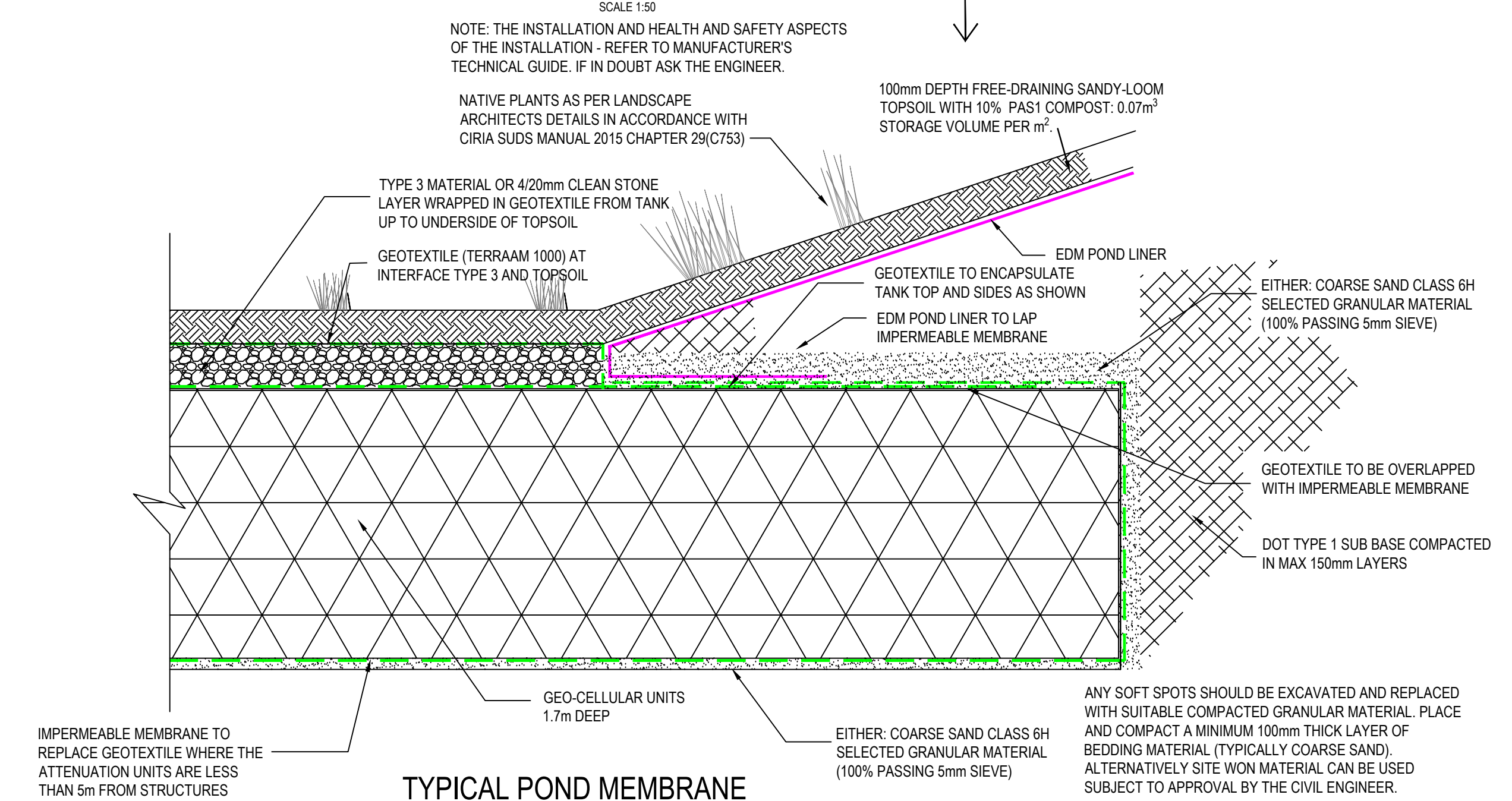
SECTION W - W
HIGHWAY BIO-RETENTION
SCALE 1:20



SECTION T - T
BIO-RETENTION AREA #1 (AREA #2 SIMILAR)
CONSTRUCTION DETAIL



SECTION V - V
BIO-RETENTION AREA #3
CONSTRUCTION DETAIL



TYPICAL POND MEMBRANE
CONSTRUCTION DETAIL
Scale 1:20

- NOTES:
- MH COVERS AND FRAMES TO CONFORM TO BS EN 124:
-HIGHWAYS AND FOOTWAYS TO FRONT OF BUILDINGS (D400)
-FOOTWAYS TO REAR OF BUILDINGS (C250)
 - TYPE S BEDDING AND SURROUND TO ALL PIPES EXCEPT IN THE FOLLOWING CIRCUMSTANCES, IN WHICH TYPE Z BEDDING AND SURROUND ARE TO BE USED:
-IN BACK GARDENS OF HOUSES WHERE DEPTH TO CROWN OF PIPE IS LESS THAN 0.35m
-IN AREAS OF THE REAR OF FLATS AND PARKING WHERE DEPTH TO CROWN IS LESS THAN 0.9m
-IN AREAS OF ROAD WHERE DEPTH IS LESS THAN 1.2m.
 - ALL EXISTING MANHOLE INVERTS TO BE CHECKED AND REPORTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF DRAINAGE WORKS. EXISTING PIPE CONNECTIONS ARE TO BE CCTV SURVEYED AND INSPECTED BY THE ENGINEER AND LOCAL AUTHORITY. IF THE PIPE CONNECTION IS FOUND TO BE DAMAGED OR IN DISTRESS, THE CONTRACTOR IS TO CARRY OUT REMEDIAL WORKS OR PROVIDE A NEW CONNECTION TO THE EXISTING SEWER (PIPE SIZE AND GRADIENT TO BE DETERMINED BY THE ENGINEER).
 - ALL ADOPTABLE THERMOPLASTIC STRUCTURED WALL SEWER PIPE SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 13476-1 AND BS EN 13476-2 OR BS EN 13476-3. PIPES SHALL BE BSI KITEMARKED OR HAVE EQUIVALENT THIRD PARTY CERTIFICATION. PIPES LESS THAN OR EQUAL TO 500mm DIA. SHALL HAVE A SHORT-TERM RING STIFFNESS OF NOT LESS THAN 8kNm² (SN8).
 - ALL JOINTING IN ACCORDANCE WITH MANUFACTURERS TECHNICAL ADVICE & SPECIFICATION.
 - ALL NON ADOPTABLE DRAINAGE TO BE THE STANDARD UPVC 110mm, 160mm DRAINAGE AND MANUFACTURED TO BS-EN 1401 AND BS 4660 UNLESS NOTED OTHERWISE.
 - ALL STORM WATER DRAINAGE TO BE A MINIMUM OF 150mm DIAMETER UNLESS OTHERWISE NOTED.
 - SOIL & VENT PIPE LOCATION AND NUMBER TO BE CONFIRMED WITH ARCHITECT.
 - THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS DRAWINGS, TOGETHER WITH THEIR LATEST SPECIFICATIONS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER (VALE CONSULTANCY) AS SOON AS POSSIBLE.
 - FIGURED DIMENSIONS ONLY TO BE USED. ANY QUERIES OR DISCREPANCIES TO BE REFERRED TO THE ENGINEER (VALE CONSULTANCY) IMMEDIATELY.
 - PRIOR TO ORDERING ANY MATERIALS THE CONTRACTOR IS TO CONFIRM MANUFACTURER/PIPE MATERIAL AND GRADE PROPOSED WITH WATER AUTHORITY.
 - TEMPORARY WORKS DESIGN BY OTHERS.
 - DESIGN RISK ASSESSMENTS AND METHOD STATEMENTS ARE TO BE PROVIDED TO THE PRINCIPLE CONTRACTOR PRIOR TO THE COMMENCEMENT OF ANY WORKS.
 - ARCHITECT TO CONFIRM EXTERNAL LEVELS TO ALL AREAS PRIOR TO THE COMMENCEMENT OF WORKS.
 - FOR HIGHWAY RAIN GARDEN DETAILS REFER TO DRAWING 23218/705, 706 & 707.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DRG No. 23218_501, 502, 503 & 504.

PRELIMINARY

01	RGP	NRC	MJ	17.02.26	PRELIMINARY
rev.	drawn	chkd	approved	date	description
Client ADEPT CONSULTANTS					
Project TWIN GLAS, TREDEGAR, BLAENAU GWENT, NP22 3EP					
Title PLOT SPECIFIC DRAINAGE CONSTRUCTION DETAILS SHEET 3					
 CONSULTING CIVIL & STRUCTURAL ENGINEERS 29 Bocam Park, Old Field Road, Pencoed, Bridgend CF35 5LJ. Phone: 01656 863794 Email: enquiries@vale-consultancy.co.uk					
date	drawn	checked	approved		
17.02.26	RGP	NRC	MJ	17.02.26	17.02.26
scale @ A1		project no.			
AS SHOWN		23218			
status	drg. no.				rev.
P	23218_511				01