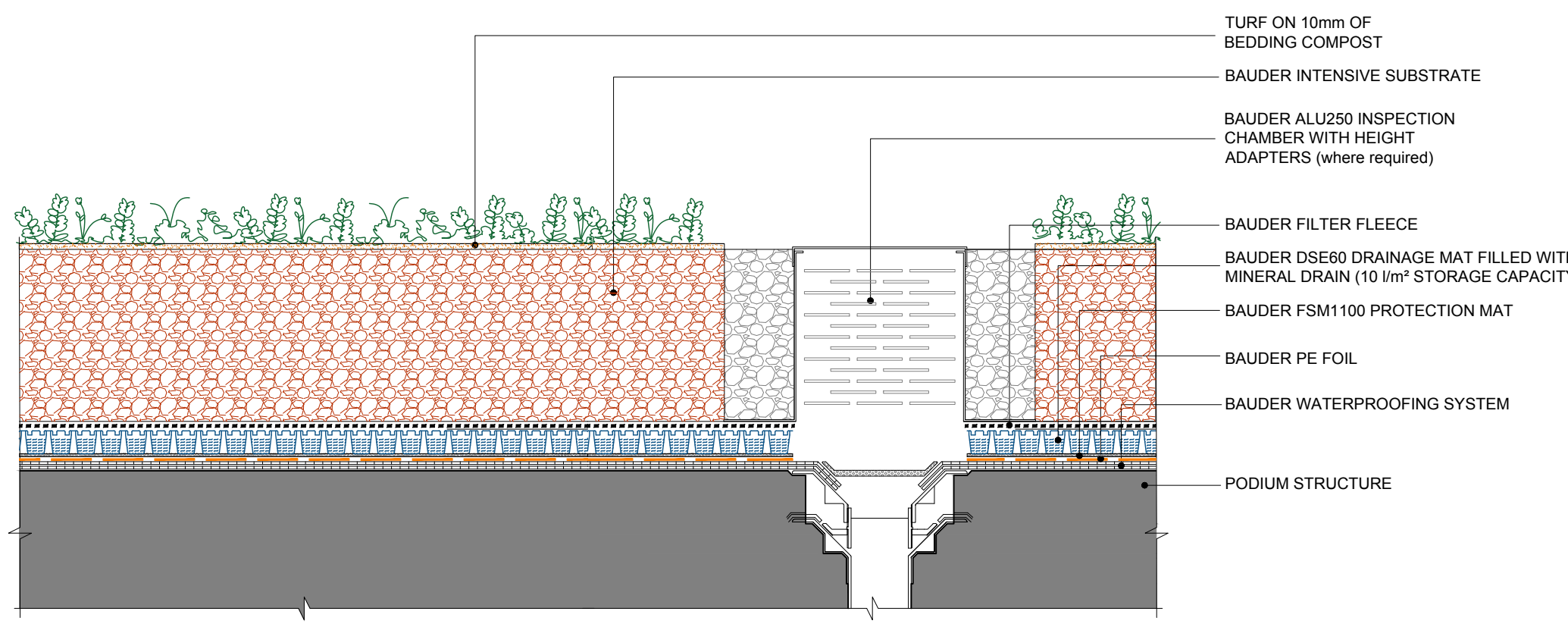
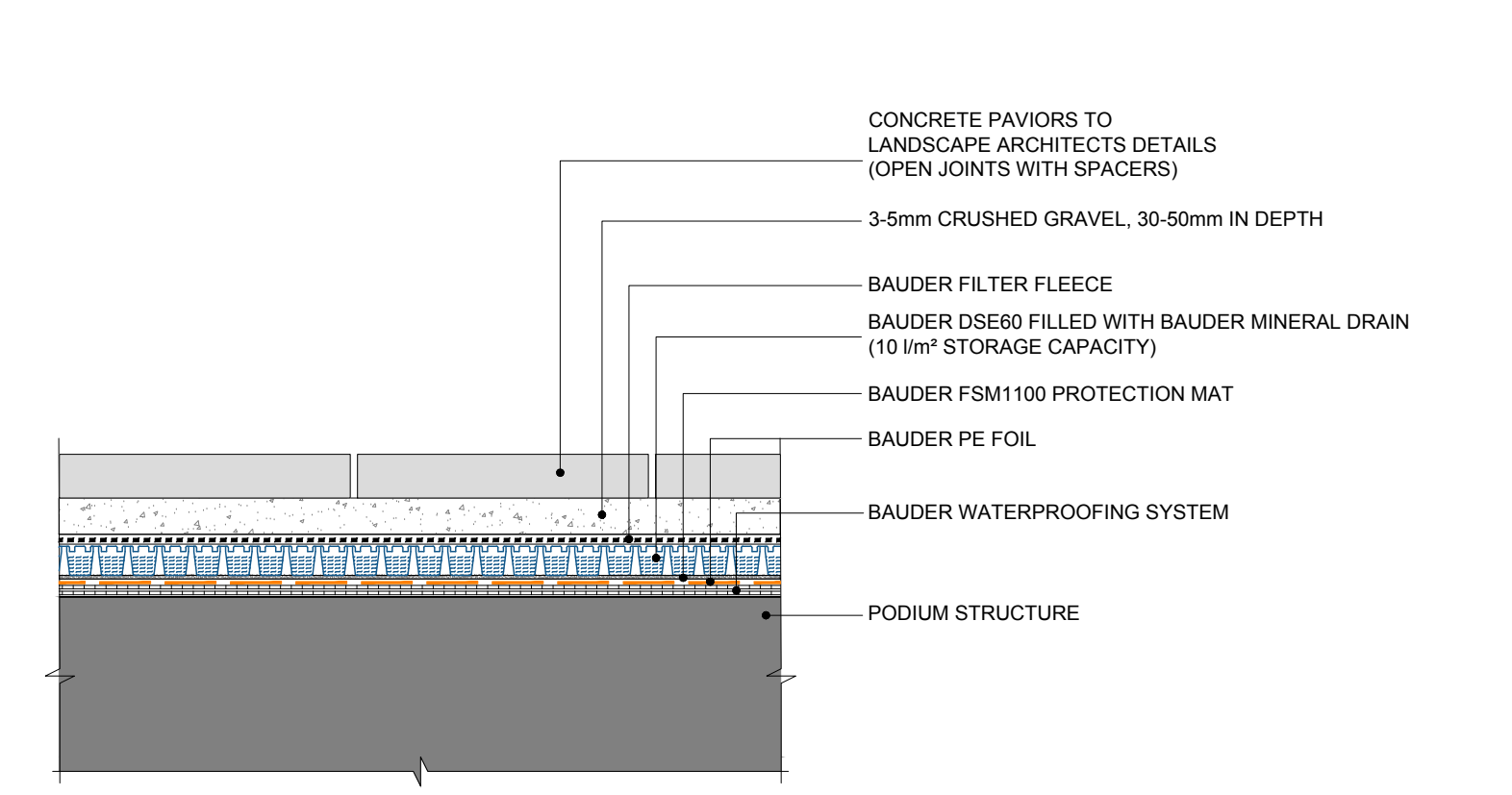


- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ENGINEERS & ARCHITECTS DRAWINGS FIGURED DIMENSIONS ONLY (NOT SCALING) TO BE USED. WHERE A CONFLICT OF INFORMATION EXISTS OR IF IN ANY DOUBT - ASK.
- CONSULTANTS TO BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES BEFORE WORK PROCEEDS.

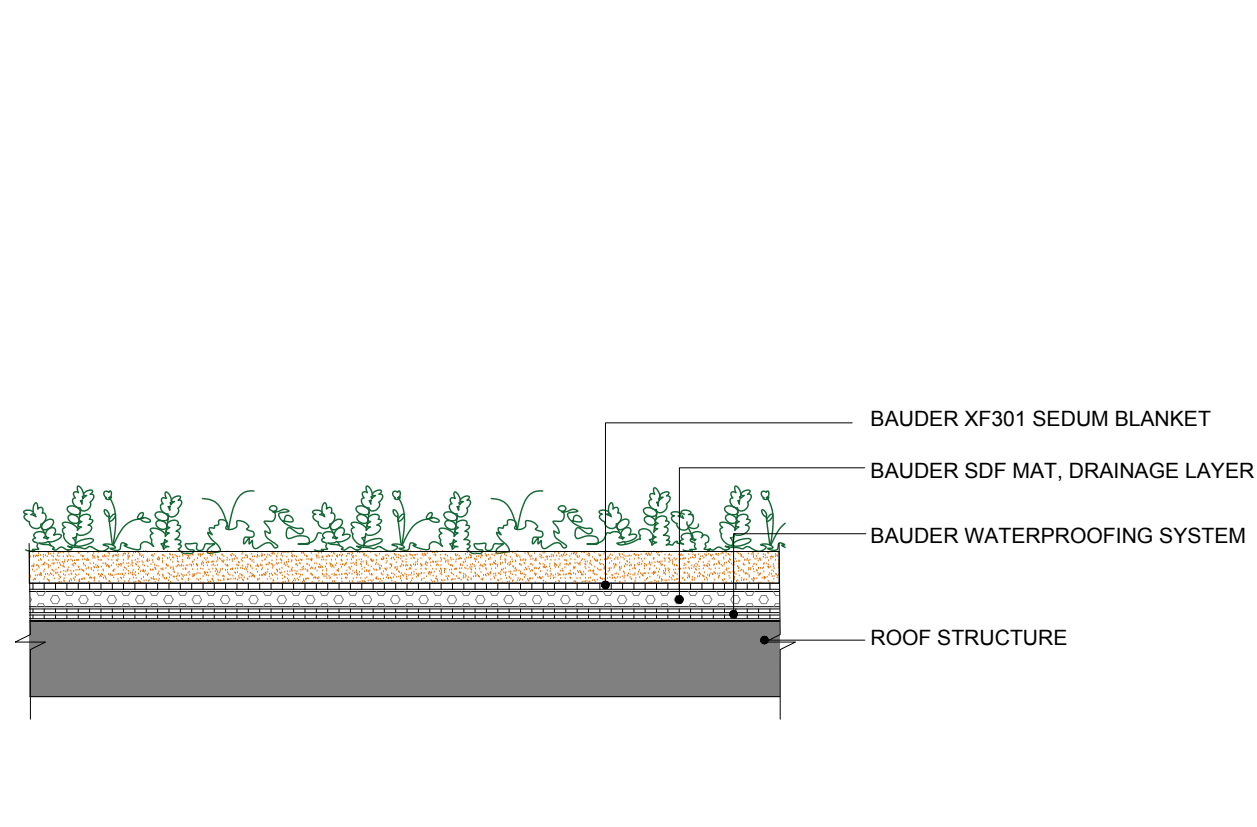


**TYPICAL BAUDER DSE060 WITH SOFT LANDSCAPING SHOWING DRAINAGE DETAIL**  
**A DETAIL**  
 SCALE @ A1: 1:10  
 SCALE @ A3: 1:20

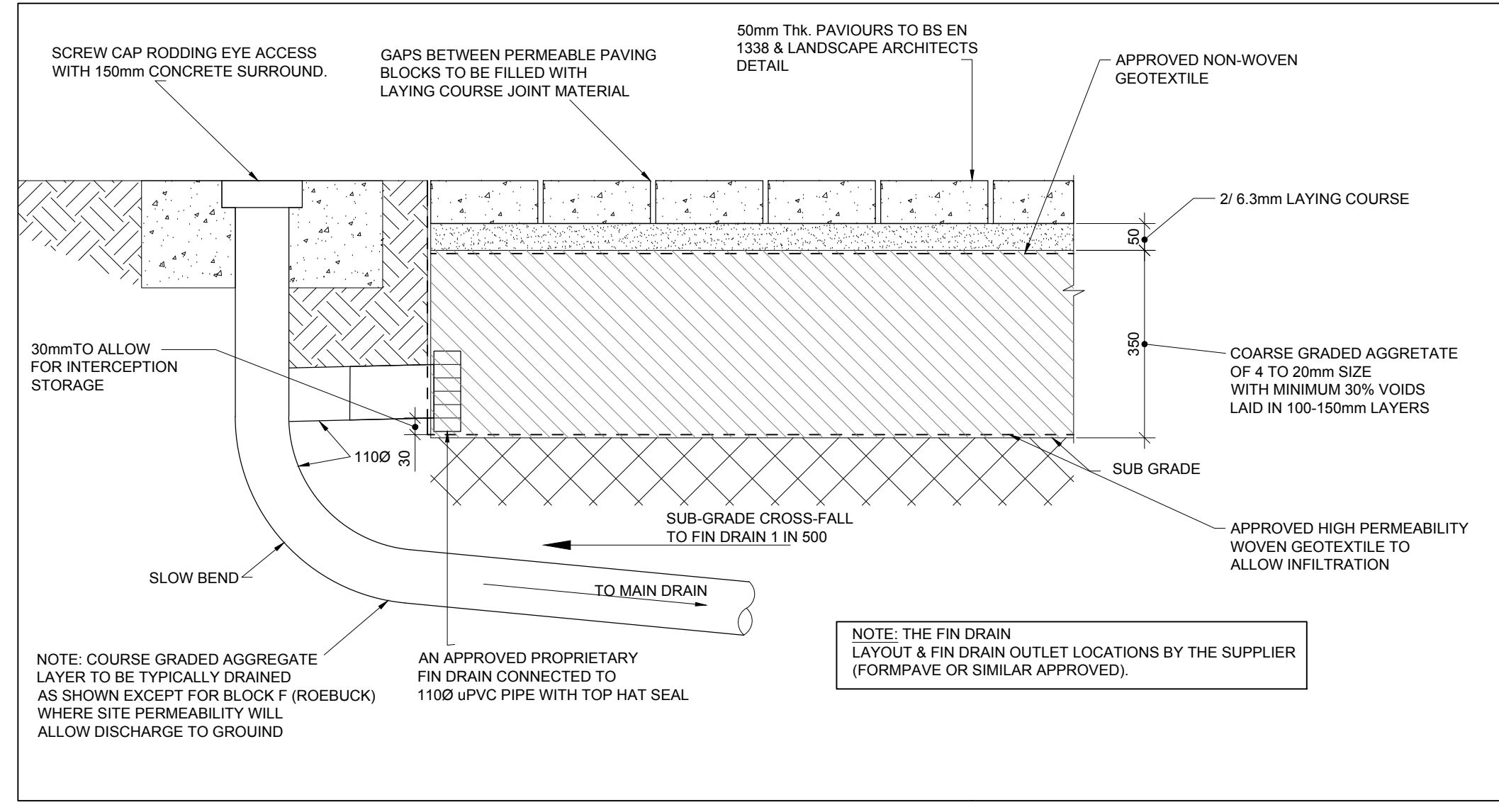
\* NOTE: BAUDER DETAILS SHOWN BUT APPROVED EQUAL SYSTEM WILL BE ACCEPTABLE



**TYPICAL BAUDER DSE60 WITH PERMEABLE PAVING**  
**B DETAIL**  
 SCALE @ A1: 1:10  
 SCALE @ A3: 1:20

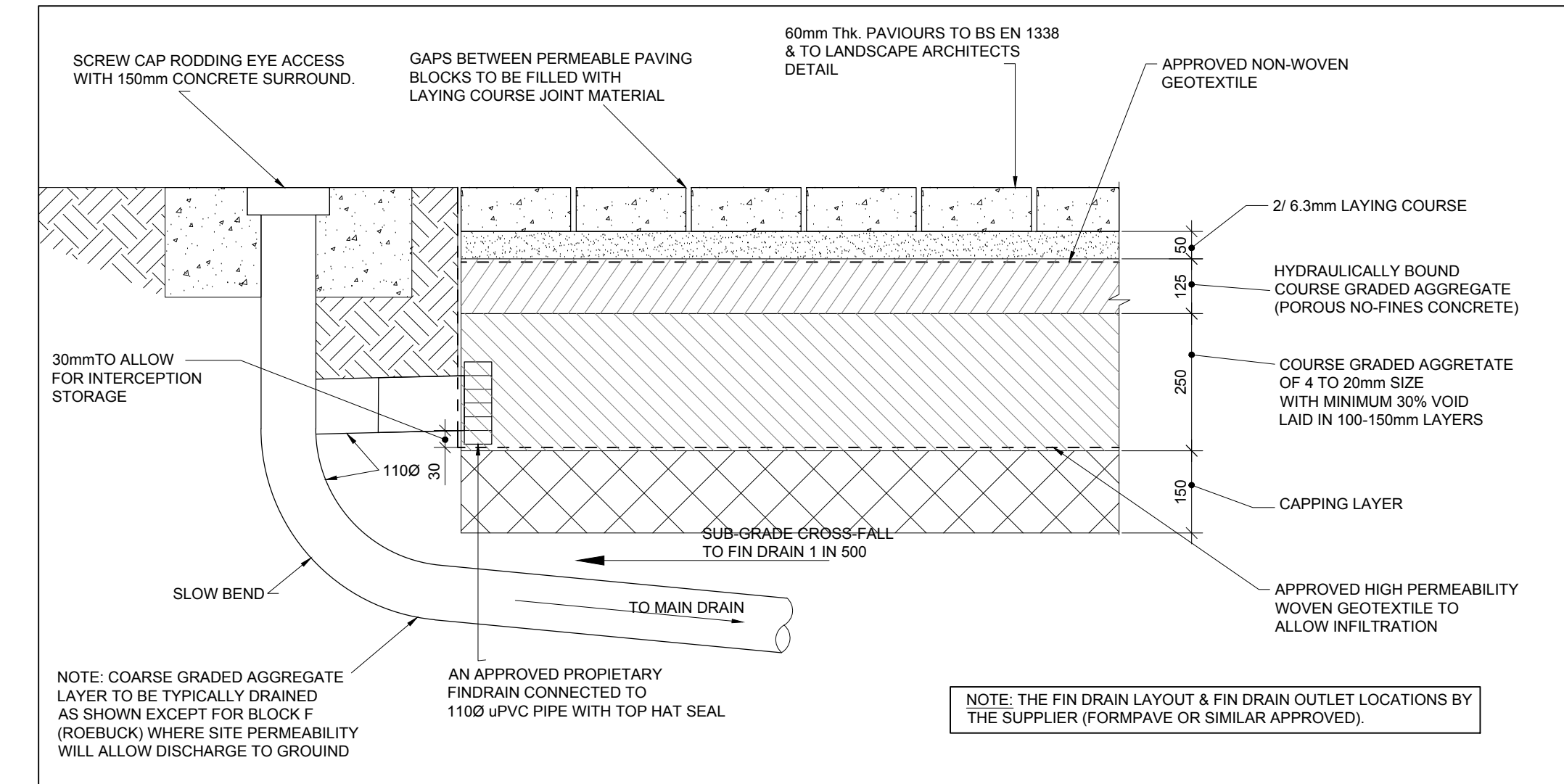


**TYPICAL BAUDER SEDAM BLANKET GREEN ROOF DETAILS**  
**C DETAIL**  
 SCALE @ A1: 1:10  
 SCALE @ A3: 1:20

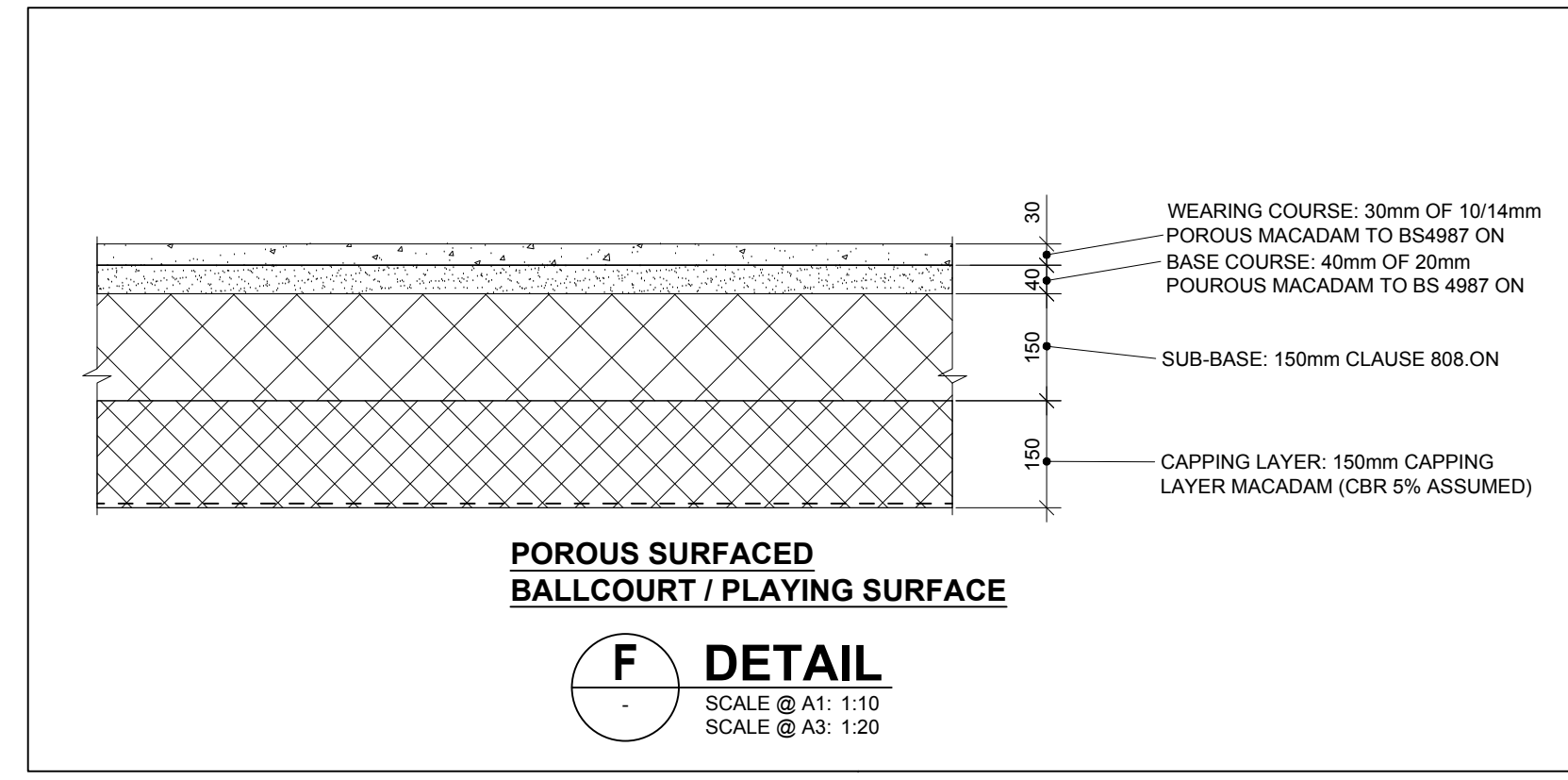


**TYPICAL PERMEABLE PAVING (5% CBR ASSUMED)**  
**D DETAIL**  
 SCALE @ A1: 1:10  
 SCALE @ A3: 1:20

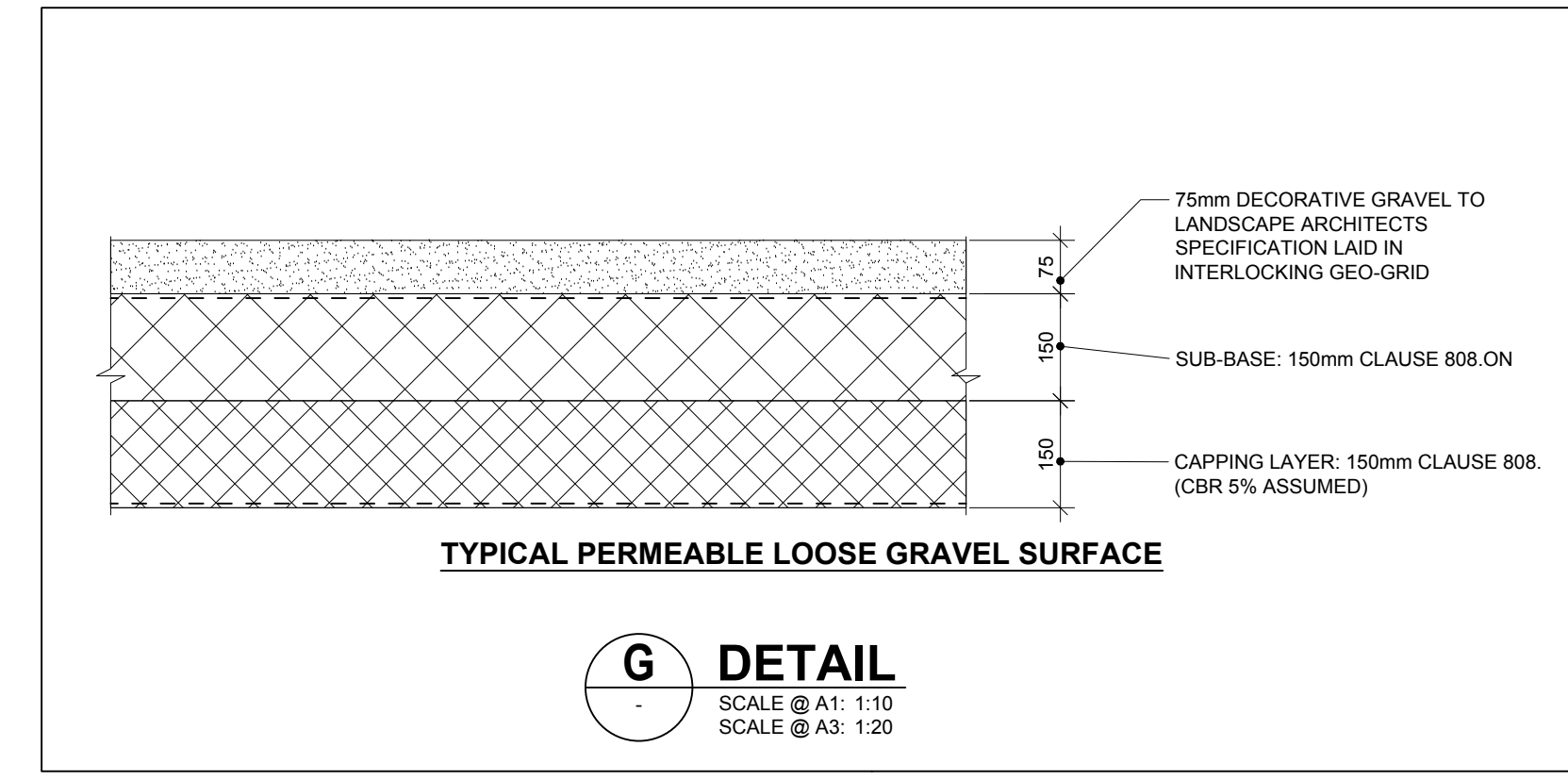
40mm MIN. THICK OF 'SMA 10 surf 70/100' det' SURFACE COURSE TO IS EN 13108 AND NSAF S28. AA/V10 ON 60mm MIN THICK OF 'AC 20 dense 1st 70/100' det' BINDER COURSE TO IS EN 13108 AND NSAF S28 ON 80mm MIN THICK OF 'AC S2 dense 1st 70/100' det' BASE COURSE TO IS EN 13108 AND NSAF S28 ON 150mm MIN THICK SUB-BASE ON 150mm MIN. THICK CAPPING LAYER ON SUBGRADE (ASSUMED 25% CBR)



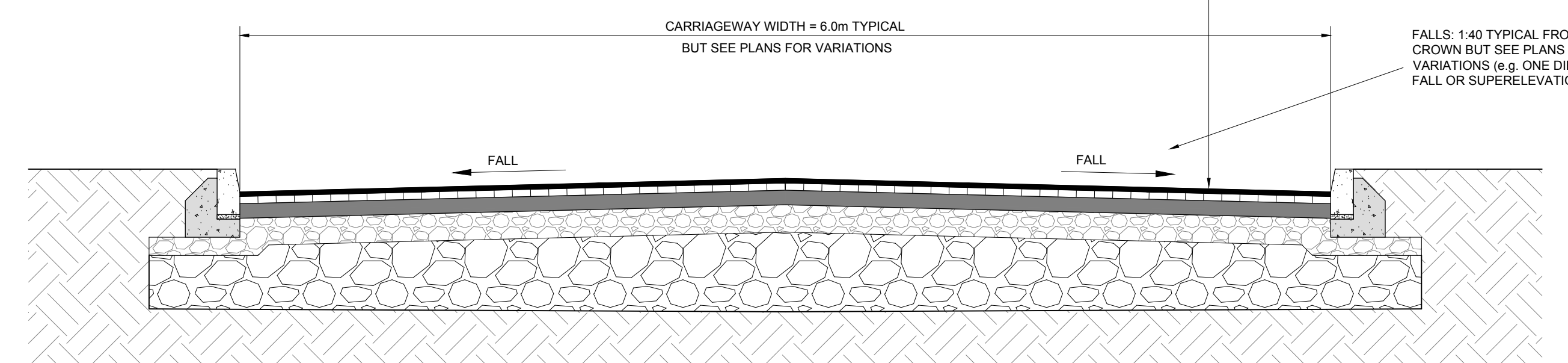
**PERMEABLE PAVING DETAIL FOR AREAS WITH FIRE TENDER ACCESS (5% CBR ASSUMED)**  
**E DETAIL**  
 SCALE @ A1: 1:10  
 SCALE @ A3: 1:20



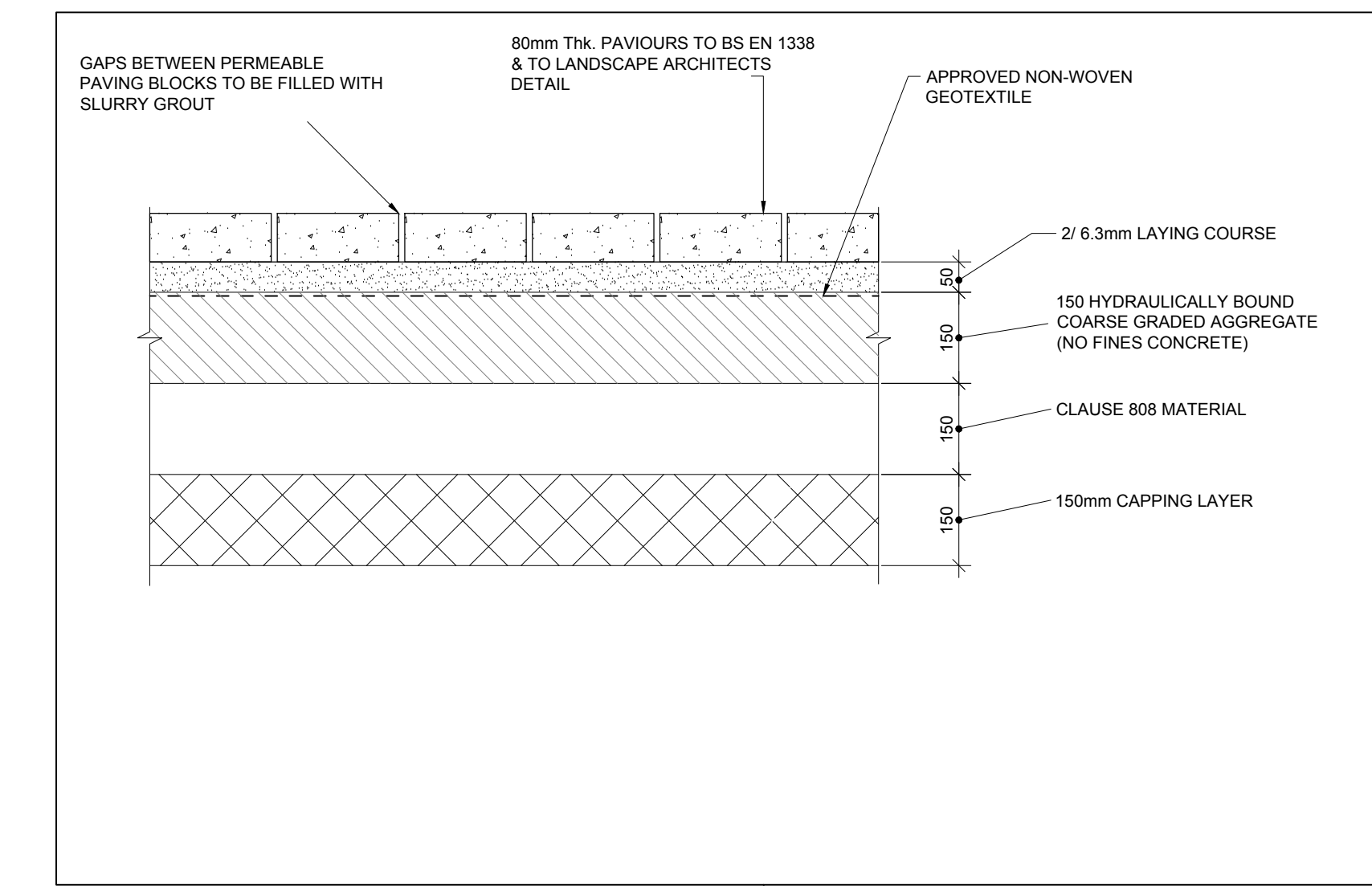
**POROUS SURFACED BALLCOURT / PLAYING SURFACE**  
**F DETAIL**  
 SCALE @ A1: 1:10  
 SCALE @ A3: 1:20



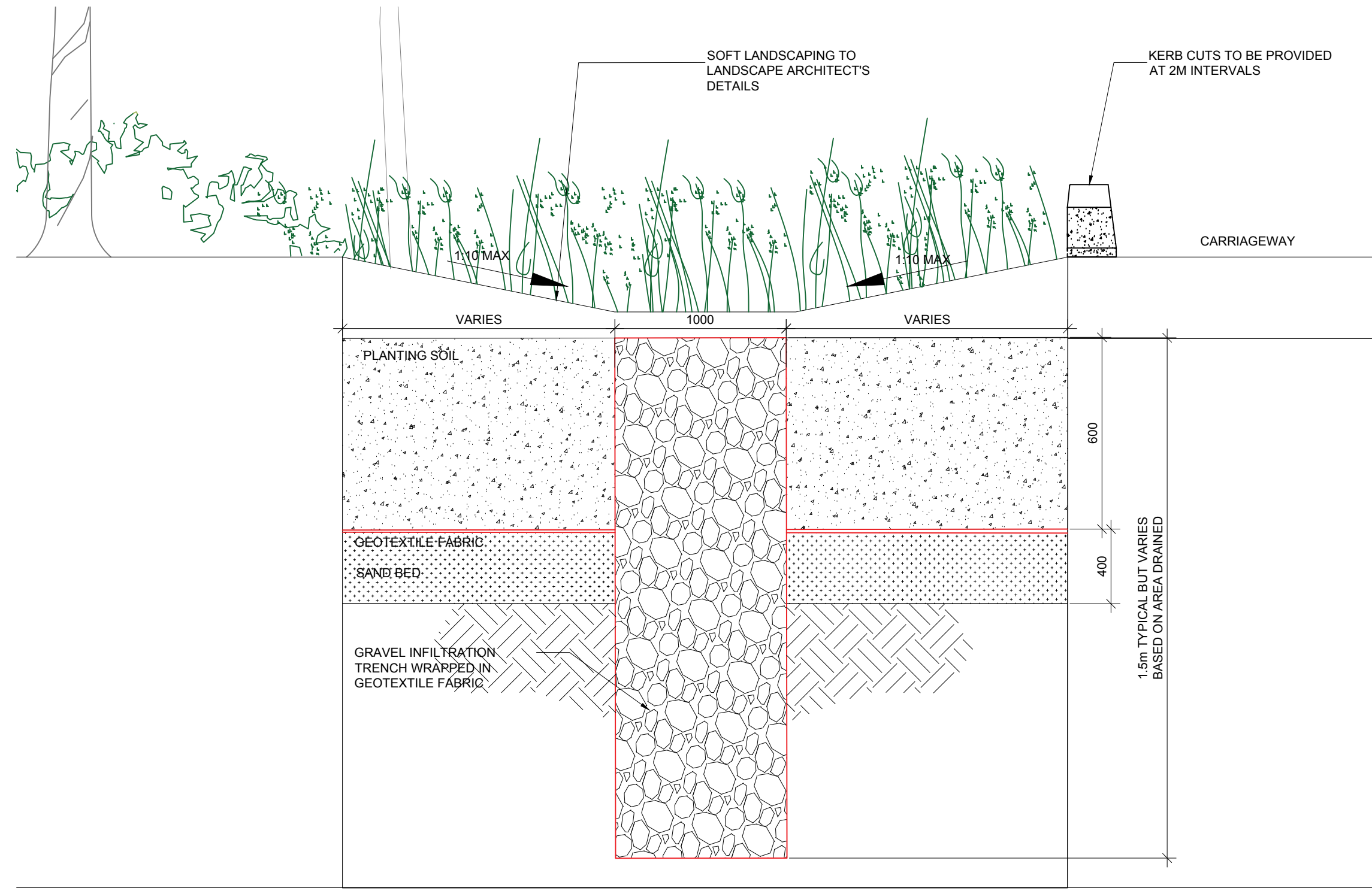
**TYPICAL PERMEABLE LOOSE GRAVEL SURFACE**  
**G DETAIL**  
 SCALE @ A1: 1:10  
 SCALE @ A3: 1:20



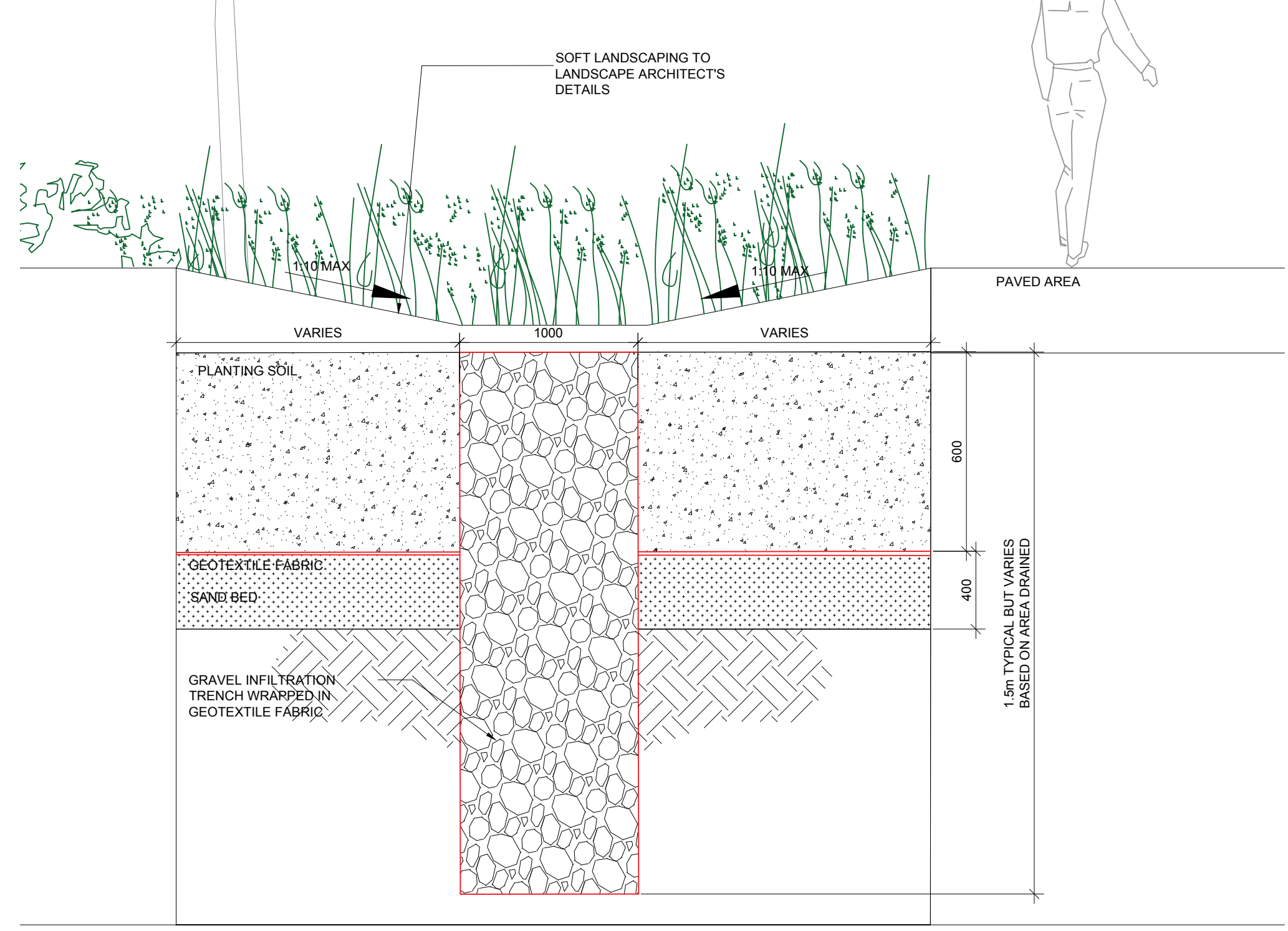
**ROAD CARRIAGEWAY ASPHALTIC CONCRETE FINISH (IMPERMEABLE)**  
**H DETAIL**  
 SCALE @ A1: 1:25  
 SCALE @ A3: 1:50



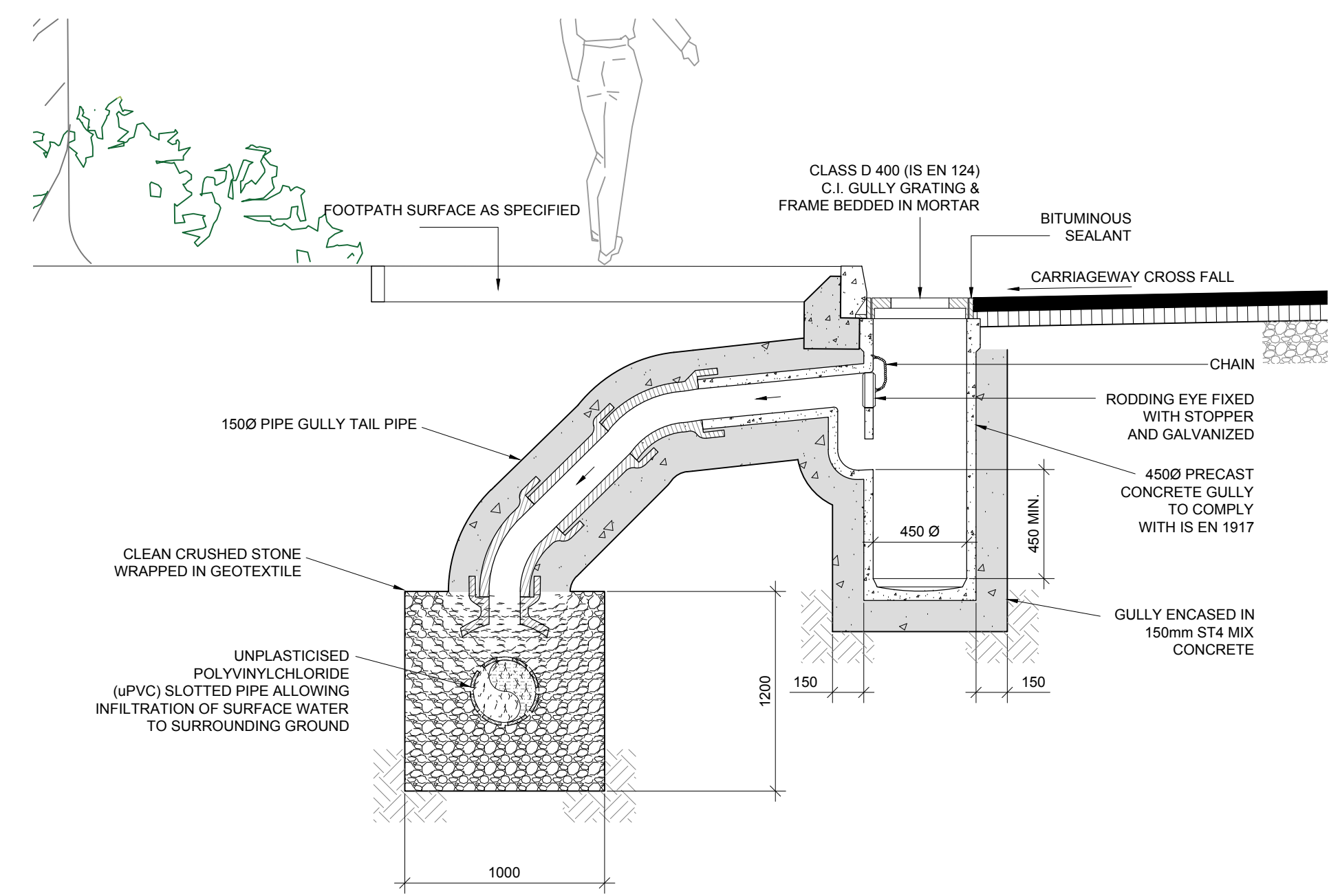
**ROAD CARRIAGEWAY RIGID BOUND PAVING FINISH (CBR 5% ASSUMED)**  
**I DETAIL**  
 SCALE @ A1: 1:10  
 SCALE @ A3: 1:20



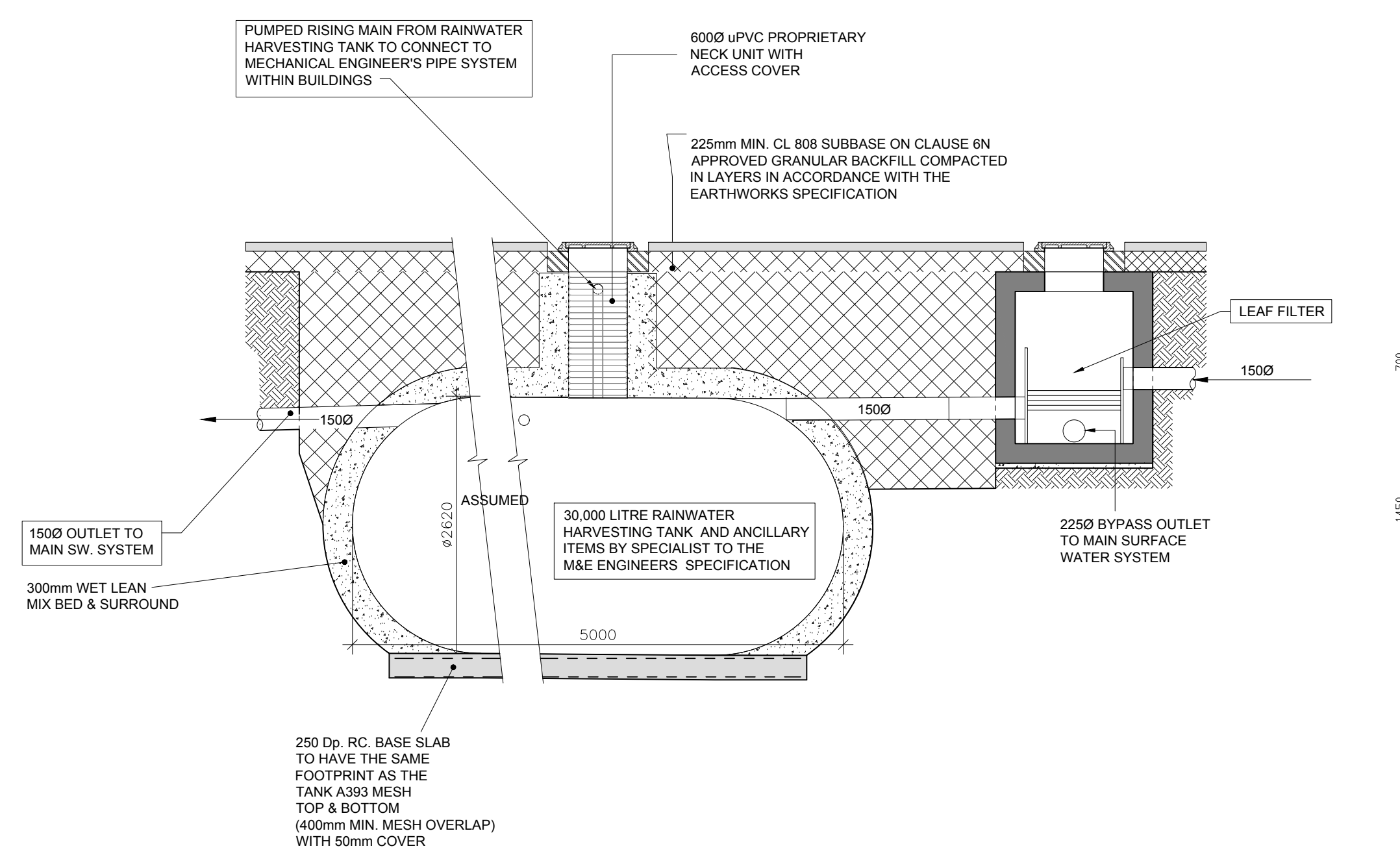
**TYPICAL SECTION THROUGH BIORETENTION AREA/SWALE WITH CUT KERBS TO ALLOW SURFACE RUN OFF FROM CARRIAGEWAY TO INFILTRATE FREELY TO GROUNDWATER**  
**J SECTION**  
 SCALE @ A1: 1:25  
 SCALE @ A3: 1:50



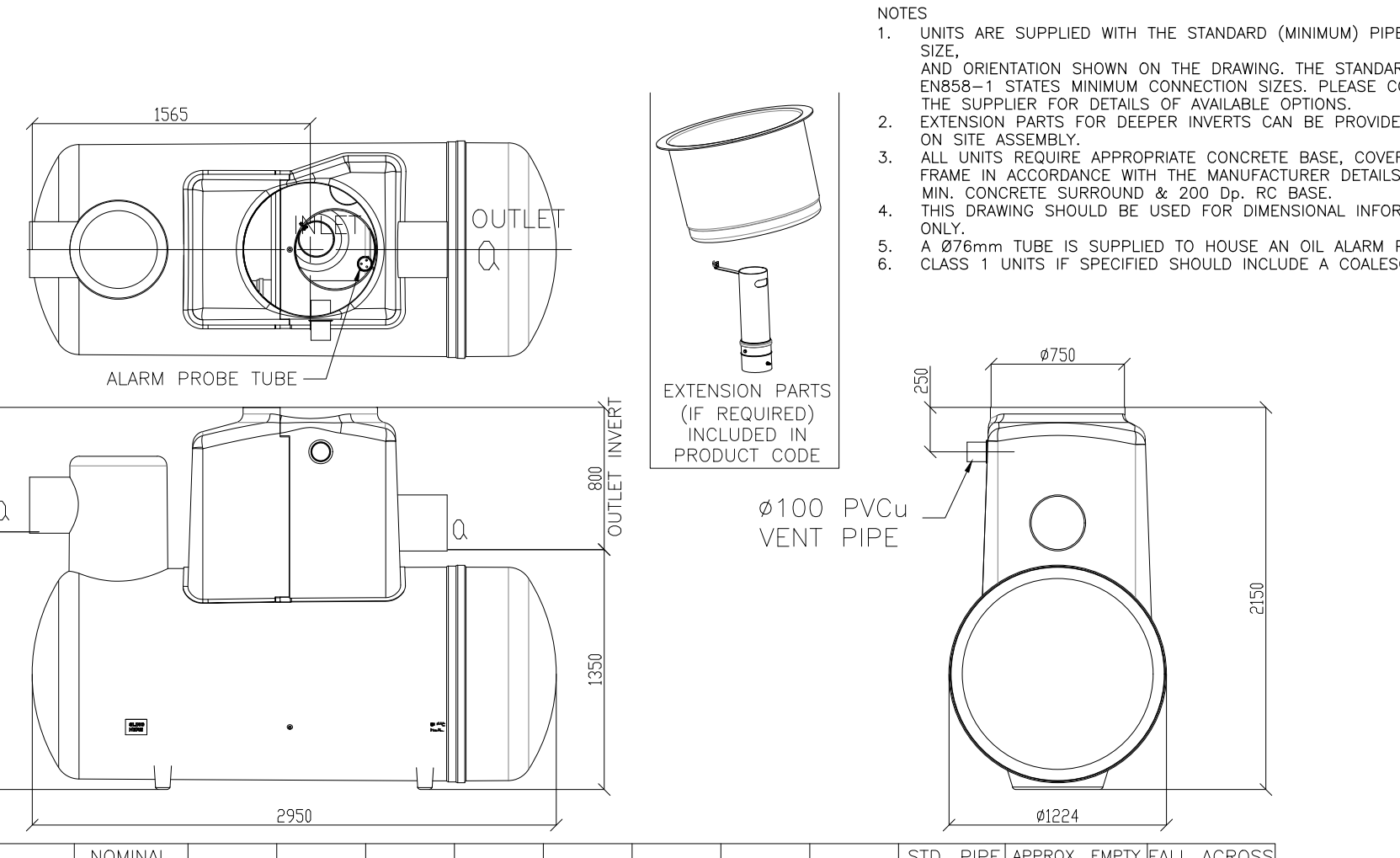
**TYPICAL SECTION THROUGH BIORETENTION AREA/SWALE WITH FLUSH KERBS TO ALLOW SURFACE RUN OFF FROM PAVED AREAS TO INFILTRATE FREELY TO GROUNDWATER**  
**K SECTION**  
 SCALE @ A1: 1:25  
 SCALE @ A3: 1:50



**TYPICAL SECTION THROUGH AREAS DRAINED TO INFILTRATION TRENCH VIA ROAD GULLIES**  
**L SECTION**  
 SCALE @ A1: 1:25  
 SCALE @ A3: 1:50

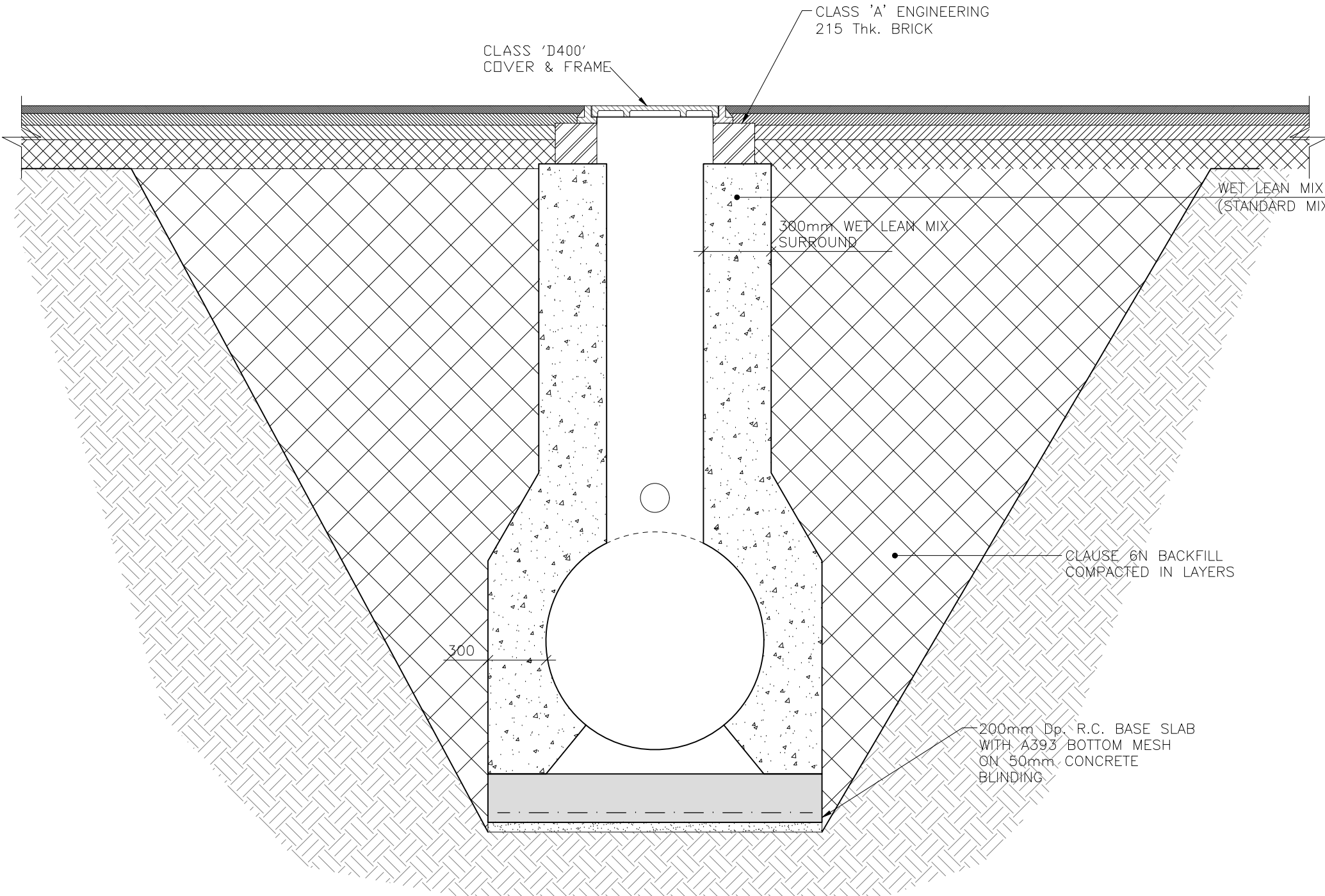


**SECTION THROUGH THE RAINWATER HARVESTING TANK**  
 SCALE 1:50  
**NOTE: DETAILED DESIGN BY THE SUPPLIER TO THE M & E ENGINEERS SPECIFICATION**



UNIT	NOMINAL FLOW (l/min)	DIM. 'A'	DIM. 'B'	DIM. 'C'	DIM. 'D'	DIM. 'E'	DIM. 'F'	DIM. 'G'	DIM. 'H'	STD. PIPE (mm)	STD. PIPE WEIGHT (kg)	STD. PIPE FALL (mm)	STD. PIPE LENGTH (mm)
NISE010	10.0	225	100	100	200	200	200	210	120	115	1.5	100	
NISE015	15.0	225	100	100	200	200	200	210	120	115	1.5	100	
NISE020	20.0	225	100	100	200	200	200	210	120	115	1.5	100	
NISE025	25.0	225	100	100	200	200	200	210	120	115	1.5	100	
NISE030	30.0	225	100	100	200	200	200	210	120	115	1.5	100	

**M TYPICAL PETROL INTERCEPTOR DETAILS**  
 SCALE: 1:10



**TYPICAL PETROL INTERCEPTOR CONCRETE SURROUND DETAIL**  
 SCALE 1:20

PL2	13.09.17	REVISED FOR PLANNING	AS	PL2
PL1	30.06.17	ISSUED FOR PLANNING	PL	PL1
P2	17.11.16	REVISED FOLLOWING SUDS AUDIT	PL	P2
P1	03.10.16	ISSUED FOR SUDS AUDIT	PL	P1

ISSUE STATUS:  PRELIMINARY (P1, P2, P3 etc.)  TENDER (T1, T2, T3 etc.)  PLANNING (PL1, PL2, PL3 etc.)  FOR CONSTRUCTION (C1, etc.)

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CLIENT: UNIVERSITY COLLEGE DUBLIN  
 PROJECT TITLE: UCD STUDENT RESIDENCES MASTERPLAN  
 DRAWING TITLE: SUDS & PAVING DETAILS  
 PROJECT NO: 15349 DRAWING NO: C1205 REVISION: PL2 STATUS: PLANNING