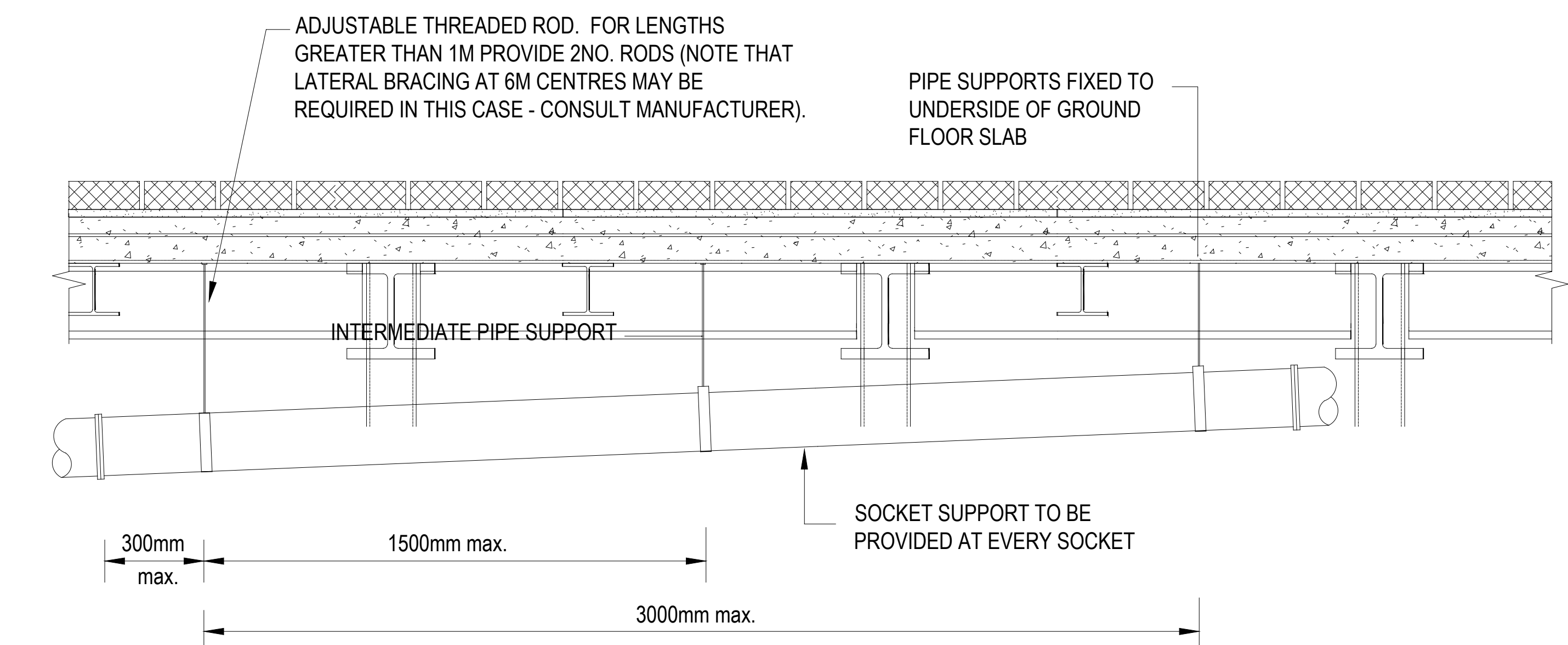
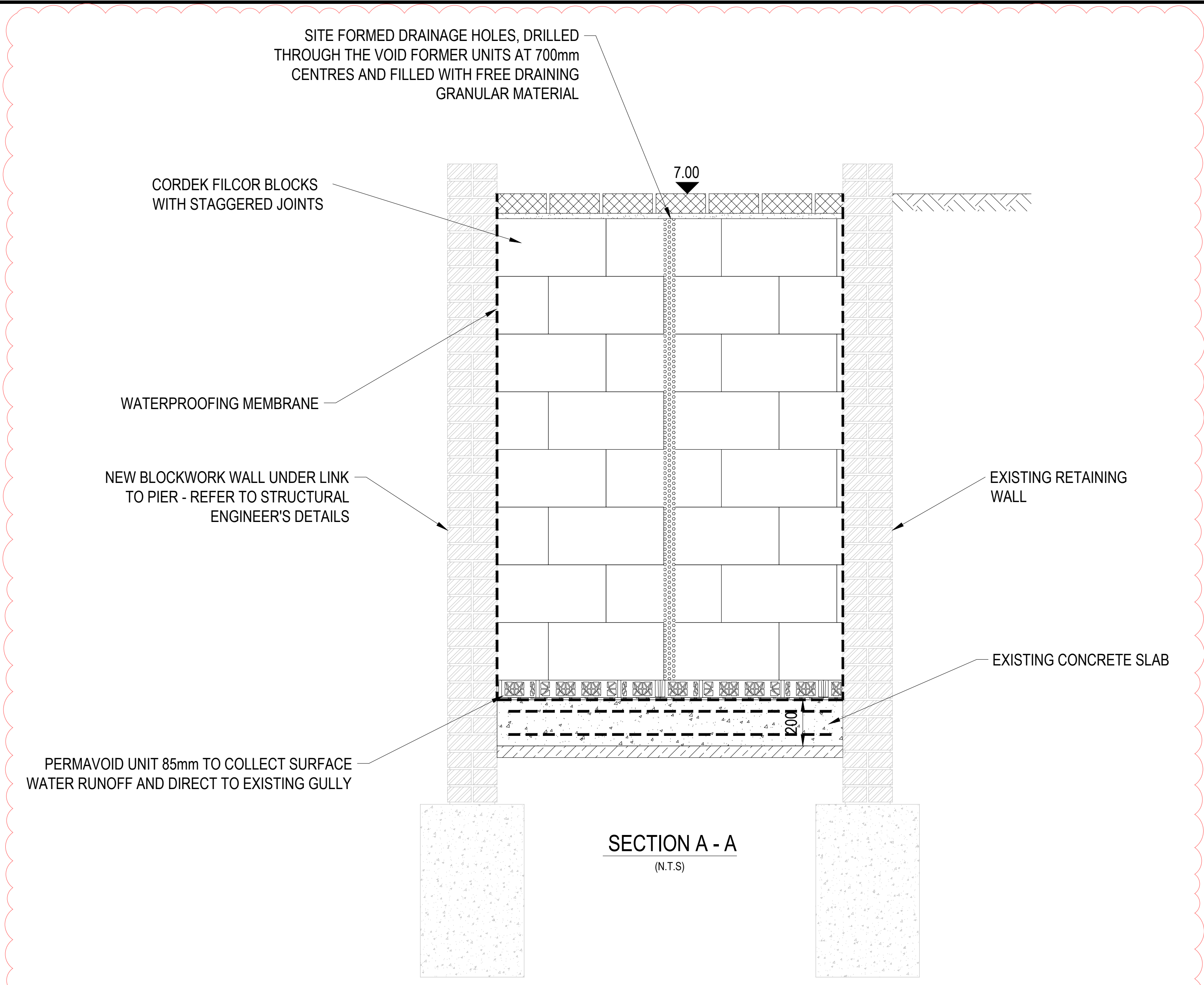
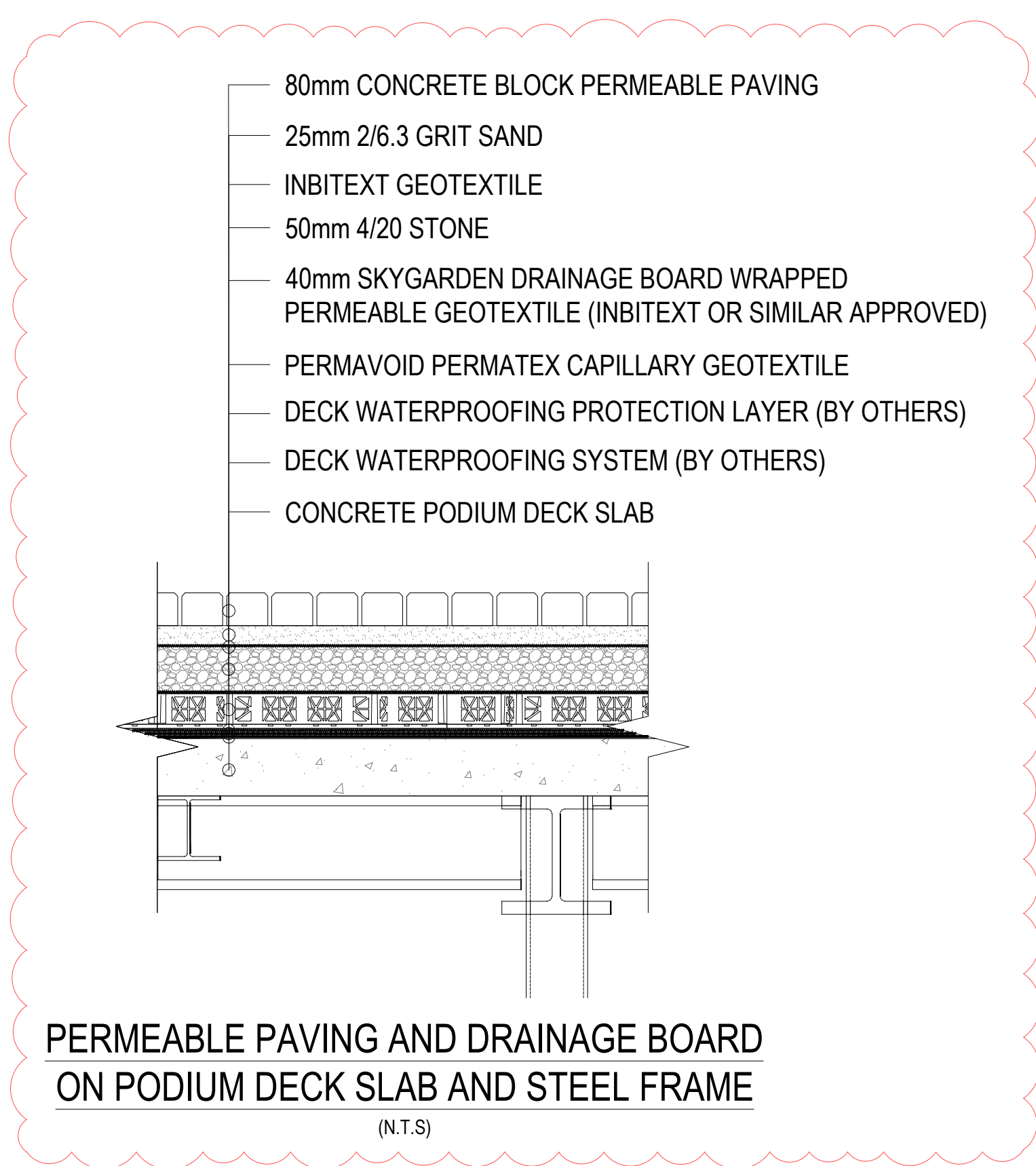


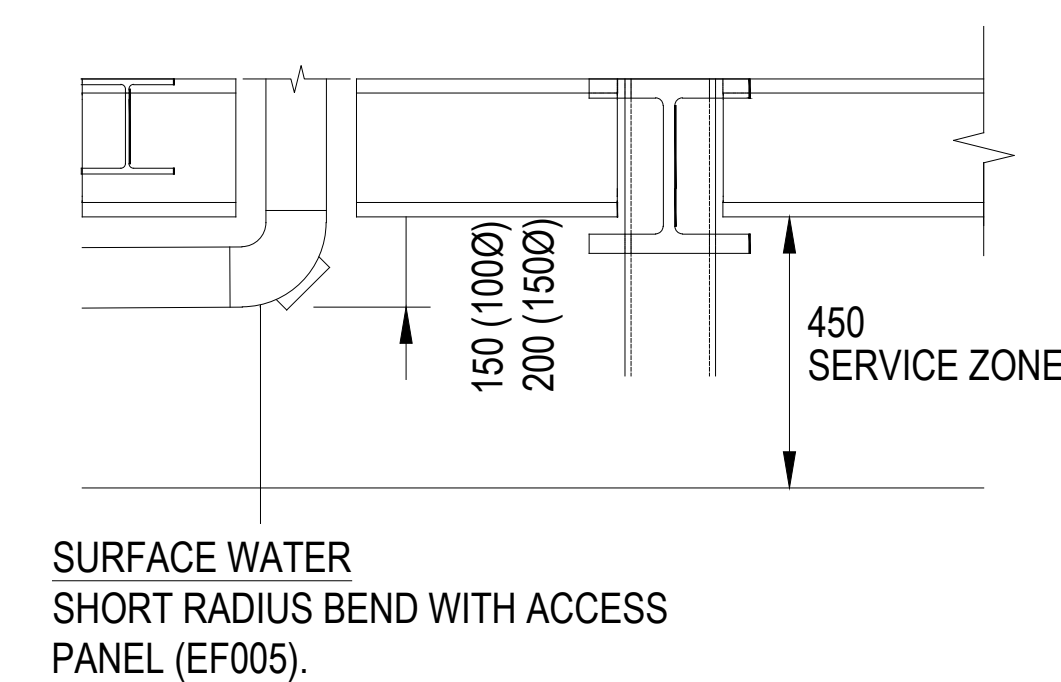


SUSPENDED DRAINAGE DETAIL TO BASEMENT
(N.T.S)

PIPE AND SOCKET SUPPORT TO BE AS 'ENSIGN' SAINT-GOBAIN SUPPORT SYSTEM OR SIMILAR APPROVED.
ALL INTERNAL DRAINAGE WITHIN BASEMENT TO BE ABOVE GROUND QUALITY IRON PIPE WORK.



PERMEABLE PAVING AND DRAINAGE BOARD ON PODIUM DECK SLAB AND STEEL FRAME
(N.T.S)



SUSPENDED DRAIN RUNS TO BE PROVIDED WITH RODDING ACCESS PANELS AT HEAD OF RUN, REST BEND TO SVP/SS/GULLY/VERTICAL BACKDROP, PIPE JUNCTIONS, CHANGES IN HORIZONTAL PIPE DIRECTION, AND PRIOR TO EXITING THROUGH THE BASEMENT WALL.

SUSPENDED REST BEND DETAILS
(N.T.S)

PIPE AND SOCKET SUPPORT TO BE 'ENSIGN' SAINT-GOBAIN SUPPORT SYSTEM OR SIMILAR

BS EN 13242:2002 TABLE 1
SIEVE SIZES FOR SPECIFYING AGGREGATE SIZES

Basic set mm	Basic set plus set 1 mm	Basic set plus set 2 mm
0	0	0
1	1	1
2	2	2
4	4	4
-	5,6 (5)	-
-	-	6,3 (6)
8	8	8
-	-	10
-	11,2 (11)	-
-	-	12,5 (12)
-	-	14
16	16	16
-	-	20
-	22,4 (22)	-
31,5 (32)	31,5 (32)	31,5 (32)
-	-	40
-	45	-
-	56	-
63	63	63
-	-	80
-	90	-

NOTE 1 Greater than 90 mm sieve sizes can be used for particular applications.

NOTE 2 Rounded sizes shown in parentheses can be used as simplified descriptions of aggregate sizes.

BS EN 13242:2002 TABLE 2
GENERAL GRADING REQUIREMENTS

Aggregate	Size mm	Percentage passing by mass					Category G
		2 D ^a	1,4 D ^{b c}	D ^d	d ^{c e}	d/2 ^{b c}	
Coarse	d ≥ 1 and D > 2	100	98 to 100	85 to 99	0 to 15	0 to 5	G _C 85-15
		100	98 to 100	80 to 99	0 to 20	0 to 5	G _C 80-20
Fine	d = 0 and D ≤ 6,3	100	98 to 100	85 to 99	-	-	G _F 85
		100	98 to 100	80 to 99	-	-	G _F 80
All-in	d = 0 and D > 6,3	-	100	85 to 99	-	-	G _A 85
		100	98 to 100	80 to 99	-	-	G _A 80
		100	-	75 to 99	-	-	G _A 75

^a For aggregate sizes where D is greater than 63 mm (e.g. 80 mm and 90 mm) only the oversize requirements related to the 1,4 D sieve apply since there is no ISO 565/R20 series sieve above 125 mm.

^b Where the sieves calculated as 1,4 D and d/2 are not exact sieve sizes in the ISO 565/R20 series then the next higher or lower sieve size respectively shall be adopted.

^c For special uses additional requirements may be specified.

^d The percentage passing D may be greater than 99 % but in such cases the manufacturer shall document and declare the typical grading including the sieves D, d, d/2 and sieves in the basic set plus set 1 or basic set plus set 2 intermediate between d and D. Sieves with a ratio less than 1,4 times the next lower sieve may be excluded.

^e Limits for the percentage passing d can be modified to 1 to 15 for G_C 85-15 and 1 to 20 for G_C 80-20 where necessary to ensure a well graded aggregate.

- NOTES:
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND THE SPECIFICATION.
 - ALL WORKMANSHIP AND MATERIALS ARE TO COMPLY WITH THE SPECIFICATION, BUILDING REGULATIONS, RELEVANT BRITISH STANDARD AND MANUFACTURERS RECOMMENDATIONS.
 - THIS DRAWING IS NOT TO BE SCALED. ALL DIMENSIONS ARE IN MILLIMETRES.
 - UNLESS NOTED OTHERWISE, ALL LEVELS ARE IN METRES.
 - ALL DIMENSIONS AND SETTING OUT ARE TO BE CHECKED ON SITE AND DISCREPANCIES ARE TO BE REPORTED TO THE CONTRACT ADMINISTRATOR.
 - PRECAST CONCRETE RETAINING WALLS TO BE DESIGNED TO RESIST SURCHARGE LIVE LOADING OF 10kN/m². DEFLECTION AT TOP OF RETAINING WALLS TO BE A MAXIMUM OF 15mm.
 - CORDEK FLOOR 45 BLOCKS OR SIMILAR APPROVED TO BE TO MANUFACTURER'S DESIGN AND INSTALLATION REQUIREMENTS TO SUPPORT PROPOSED SURCHARGE LOADS. CONTRACTOR TO ALLOW FOR ANCILLARY ITEMS E.G. RESTRAINT PINS REQUIRED BY FLOOR TYPICAL DETAILS.
 - REFER TO HCR STRUCTURAL CONCRETE AND CIVIL SPECIFICATION.
 - CONTRACTOR TO ALLOW FOR WEEP HOLES THROUGH RETAINING RESTRAINT WALLS TO BE 75mm DIAMETER AT 1M SPACING.
 - MASONRY WALLS TO BE CONSTRUCTED IN ACCORDANCE WITH BRE08G 27 'BUILDING BRICKWORK OR BLOCKWORK RETAINING WALLS, NOVEMBER 1986' USING CALCIUM SILICATE BRICKS OF COMPRESSIVE STRENGTH CLASS 20 OR ABOVE IN M MORTAR DESIGNATION (ii) OR STRONGER TO BS EN 771-219 AND BS EN 1996. CONTRACTOR TO ALLOW FOR MOVEMENT JOINTS AT MAXIMUM 6m CENTRES AND 4.5m FROM WALL RETURNS TO BE COORDINATED IN STAGE 4.

PLATE BEARING TESTS TO BE CARRIED OUT TO CONFIRM ALLOWABLE BEARING PRESSURE OF 100kPa.

C2	UM	18.02.26	PODIUM BUILDUP AND SECTION A-A AMENDED
C1	UM	23.10.25	PODIUM DRAINAGE AMENDED
P6	UM	11.01.25	SUSPENDED DRAINAGE DETAILS ADDED
P5	UM	09.05.25	STAGE 4 ISSUE - PREVIOUS SECTIONS REMOVED FOLLOWING VALUE ENGINEERING EXERCISE
P4	UM	20.02.25	UPDATED FOR NEW ARCHITECTS LAYOUT
P3	BS	23.02.24	STAGE 3 ISSUE
P2	BS	07.02.24	STAGE 3 COORDINATION ISSUE. SECTIONS B-B, D-D AND E-E REVISED TO INCLUDE RETAINING WALLS. SECTIONS F-F AND G-G ADDED.
P1	BS	14.10.22	PRELIMINARY ISSUE

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