

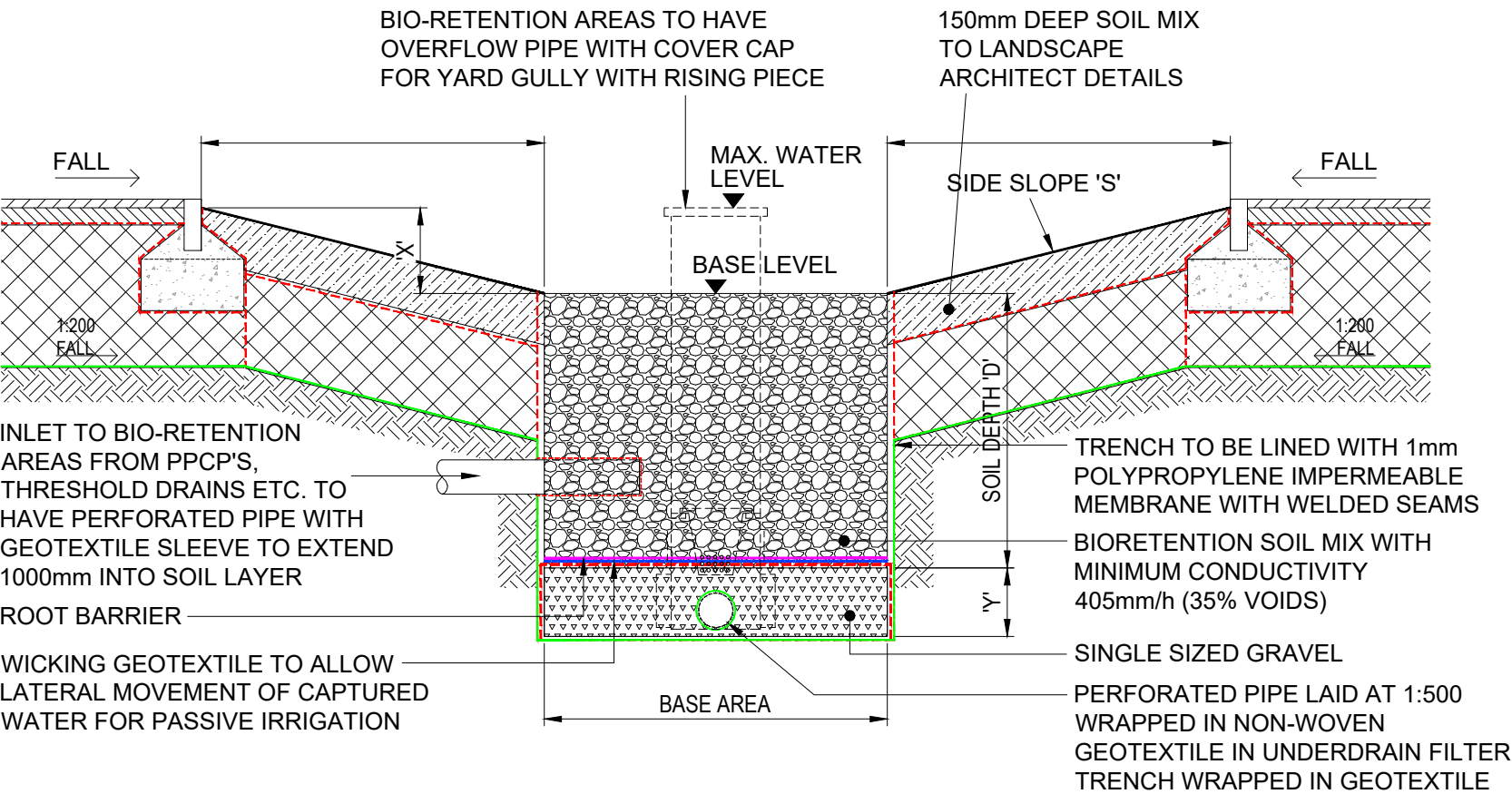
BIO-RETENTION AREAS

BIO-RETENTION SOIL MIX WITH MINIMUM CONDUCTIVITY 405 mm/h (35% VOIDS) OVER LAYER OF SINGLE SIZE GRAVEL WITH PERFORATED COLLECTOR PIPE LAID ON BASE:

REF	DEPTH 'X'	BASE LEVEL	SIDE SLOPE 'S'	BASE AREA	SOIL DEPTH 'D'	GRAVEL LAYER 'Y'	PIPE OUTLET
AREA 01	0.15m	109.450m	1:4	33.47m²	800mm	200mm	150mm DIA. PERF. PIPE
AREA 02	0.15m	109.550m	1:4	29.81m²	800mm	200mm	100mm DIA. PERF. PIPE
AREA 03	0.15m	109.450m	1:4	27.60m²	800mm	200mm	100mm DIA. PERF. PIPE
AREA 04	0.15m	107.400m	1:5	77.20m²	800mm	200mm	100mm DIA. PERF. PIPE
AREA 05	0.15m	108.650m	1:4	51.37m²	800mm	200mm	100mm DIA. PERF. PIPE
AREA 06	0.15m	108.650m	1:4	54.54m²	800mm	200mm	100mm DIA. PERF. PIPE
AREA 07	0.15m	109.350m	1:4	10.51m²	800mm	200mm	100mm DIA. PERF. PIPE
AREA 08	0.15m	109.350m	1:4	8.98m²	800mm	200mm	100mm DIA. PERF. PIPE
AREA 09	0.15m	109.420m	1:4	16.72m²	800mm	200mm	100mm DIA. PERF. PIPE
AREA 10	0.15m	109.350m	1:4	48.36m²	800mm	200mm	100mm DIA. PERF. PIPE
AREA 11	0.15m	109.500m	1:4	26.85m²	800mm	200mm	100mm DIA. PERF. PIPE

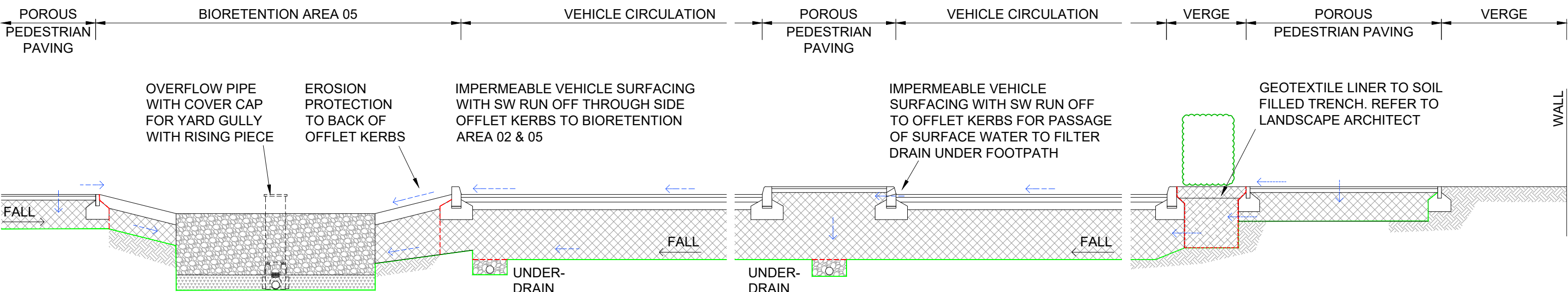
BIO-RETENTION BASIN TO BE LINED WITH 1mm THK VISQUEEN URBAN DRAINAGE GEOMEMBRANE, OR SIMILAR, ON MIN. 100mm THK. SAND BLINDING. LAPS TO GEOMEMBRANE TO BE WELDED SEAMS TO MANUFACTURERS DETAILS. PIPES PASSING THROUGH MEMBRANE TO BE SEALED WITH TOP HAT DETAIL OR SIMILAR. REFER TO LANDSCAPE ARCHITECT FOR PLANTING DETAILS.

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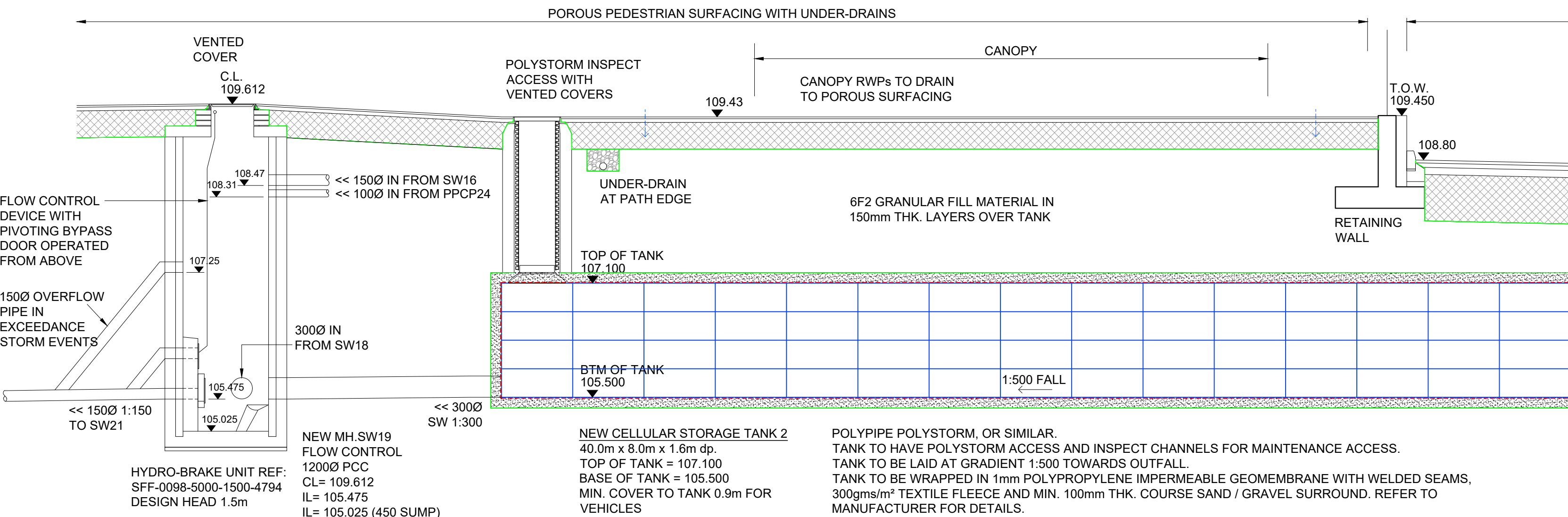
BIO-RETENTION AREA TYPICAL DETAIL

SCALE 1:20



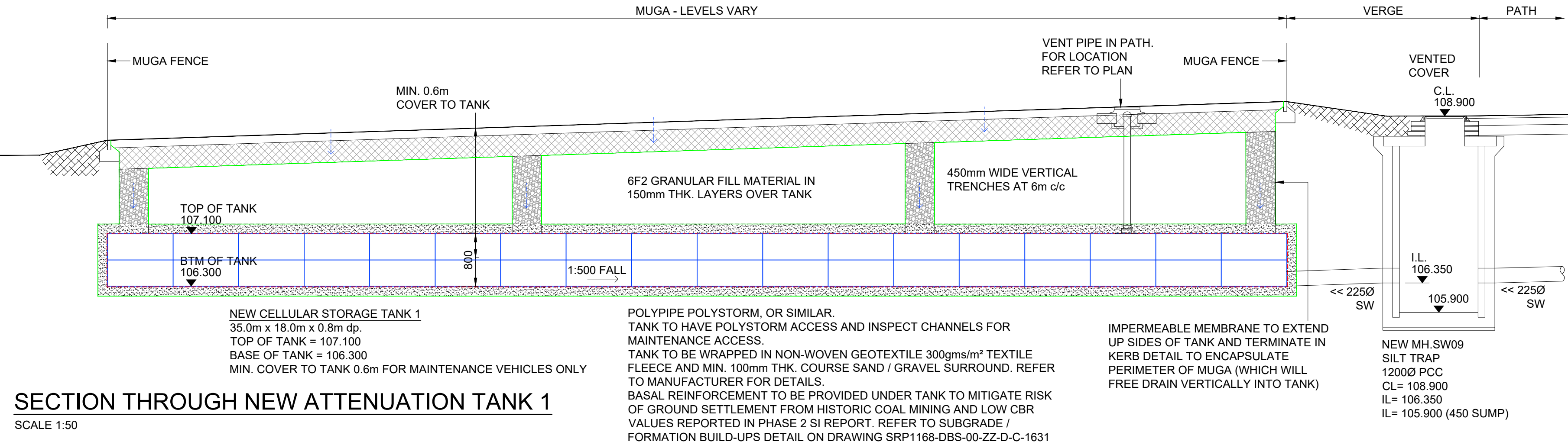
TYPICAL CROSS-SECTION THROUGH ACCESS ROAD

SCALE 1:50



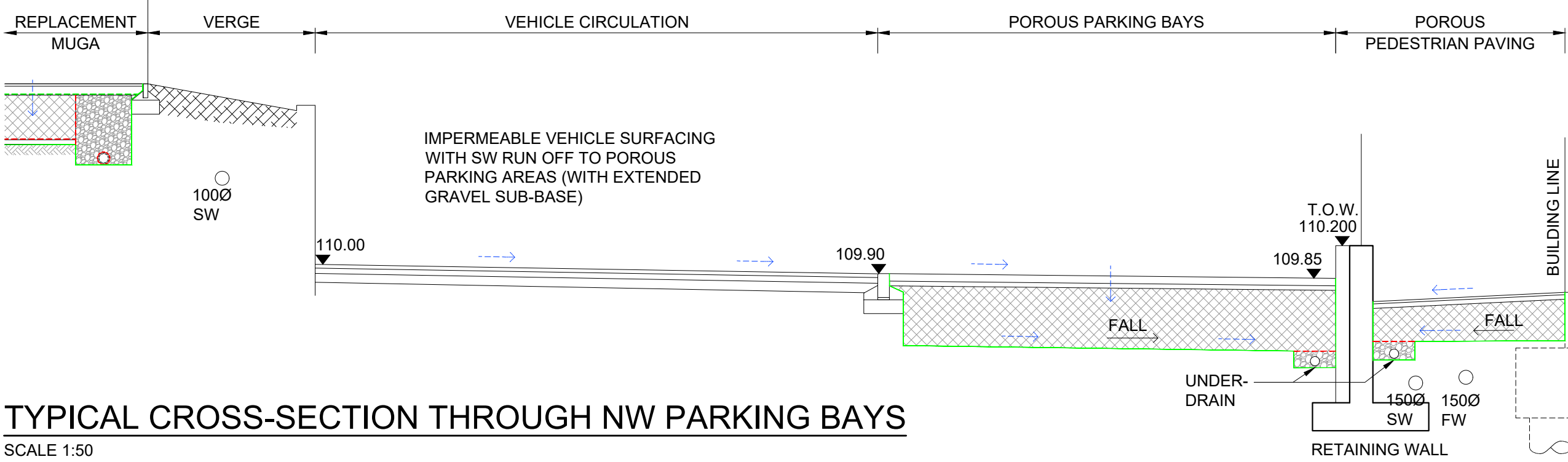
SECTION THROUGH NEW ATTENUATION TANK 2

SCALE 1:50



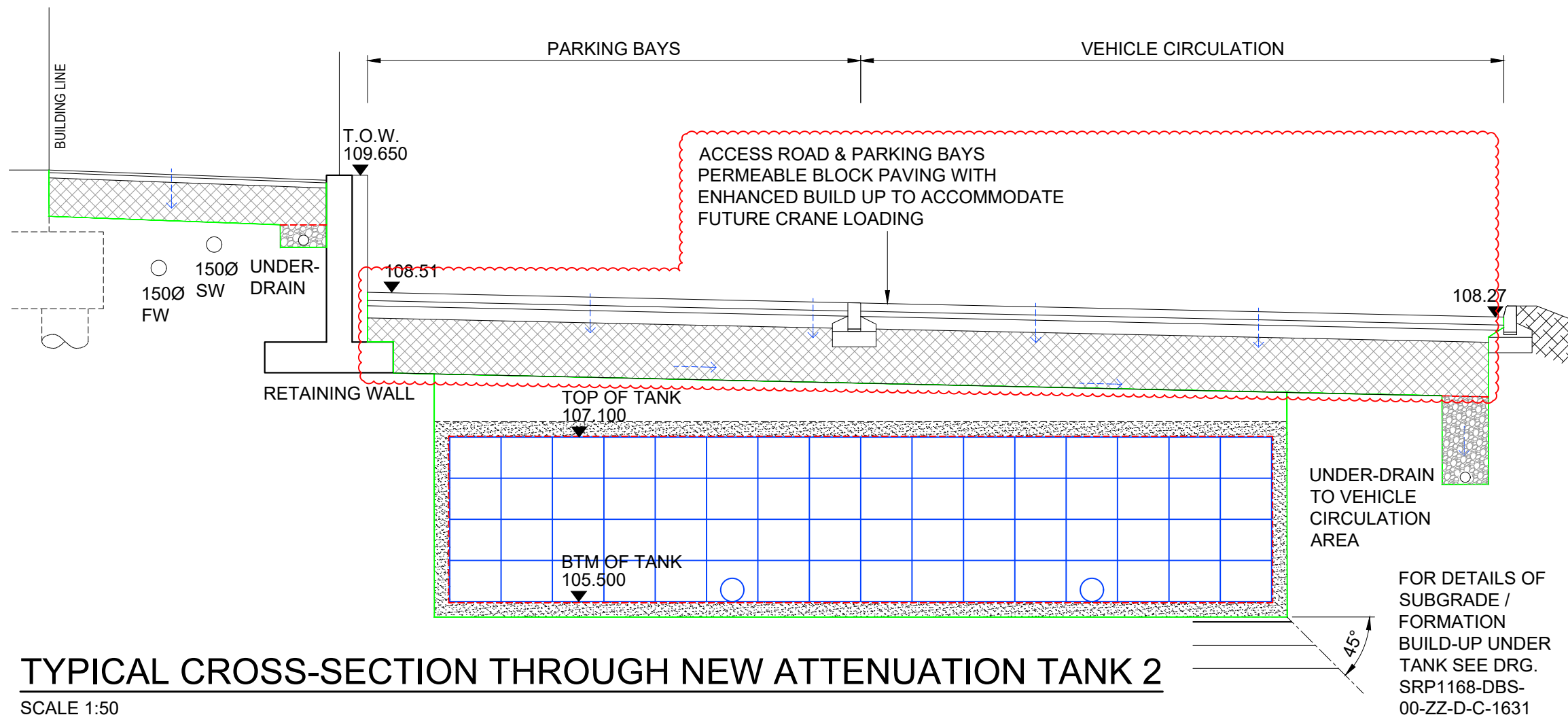
SECTION THROUGH NEW ATTENUATION TANK 1

SCALE 1:50



TYPICAL CROSS-SECTION THROUGH NW PARKING BAYS

SCALE 1:50



TYPICAL CROSS-SECTION THROUGH NEW ATTENUATION TANK 2

SCALE 1:50

NOTES

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GENERAL NOTES:

- ALL DIMENSIONS IN MILLIMETRES UNLESS STATED OTHERWISE.
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS FOR THE SCHEME.
- ALL DIMENSIONS SHALL BE CONFIRMED BY THE CONTRACTOR AND ANY DISCREPANCIES BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER AND CONTRACT ADMINISTRATOR PRIOR TO COMMENCEMENT OF THE WORKS OR AS SOON AS THE DISCREPANCY ARISES.

DETAILS TO BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT SUSTAINABLE DRAINAGE PLAN DRAWING SRP1168-DBS-00-ZZ-D-C-2031 AND GENERAL ARRANGEMENT STRUCTURAL CIVILS ROADS FOOTPATHS PLAN DRAWING SRP1168-DBS-00-ZZ-D-C-1631

C03	A4. Section updated as clouded.	NWF	AJ	AJ
		20.03.26	20.03.26	20.03.26
C02	A4. Stage 5 Issue. Revised as clouded.	NWF	AJ	AJ
		27.02.26	27.02.26	27.02.26
C01	A4. Accepted in RIBA Stage 4 as complete by the DfE	NWF	AJ	AJ
		21.11.25	21.11.25	21.11.25
P08	S4. For TA clarification. Tank 2 size increased. Road gullies & Permafilter units removed. Revised as clouded.	NWF	AJ	AJ
		10.10.25	10.10.25	10.10.25
P07	S4. Tank 2 level updated.	NWF	PS	PS
		29.08.25	29.08.25	29.08.25
P06	S4. Sections added.	NWF	AJ	AJ
		09.07.25	09.07.25	09.07.25
P05	S3. Revised as clouded.	NWF	AJ	AJ
		04.07.25	04.07.25	04.07.25
P04	S3. Bioretention base areas revised.	NWF	SD	SD
		25.03.25	25.03.25	25.03.25
P03	Status S3. Attenuation tank section added.	NWF	AJ	SD
		06.03.25	06.03.25	06.03.25
P02	Status S3. Issued for Stage 3 review	NWF	AJ	SD
		27.02.25	27.02.25	27.02.25
P01	First Issue	NWF	AJ	SD
		22.01.25	22.01.25	22.01.25
Rev.	Details	Author & Date	Checked & Date	Approved & Date



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