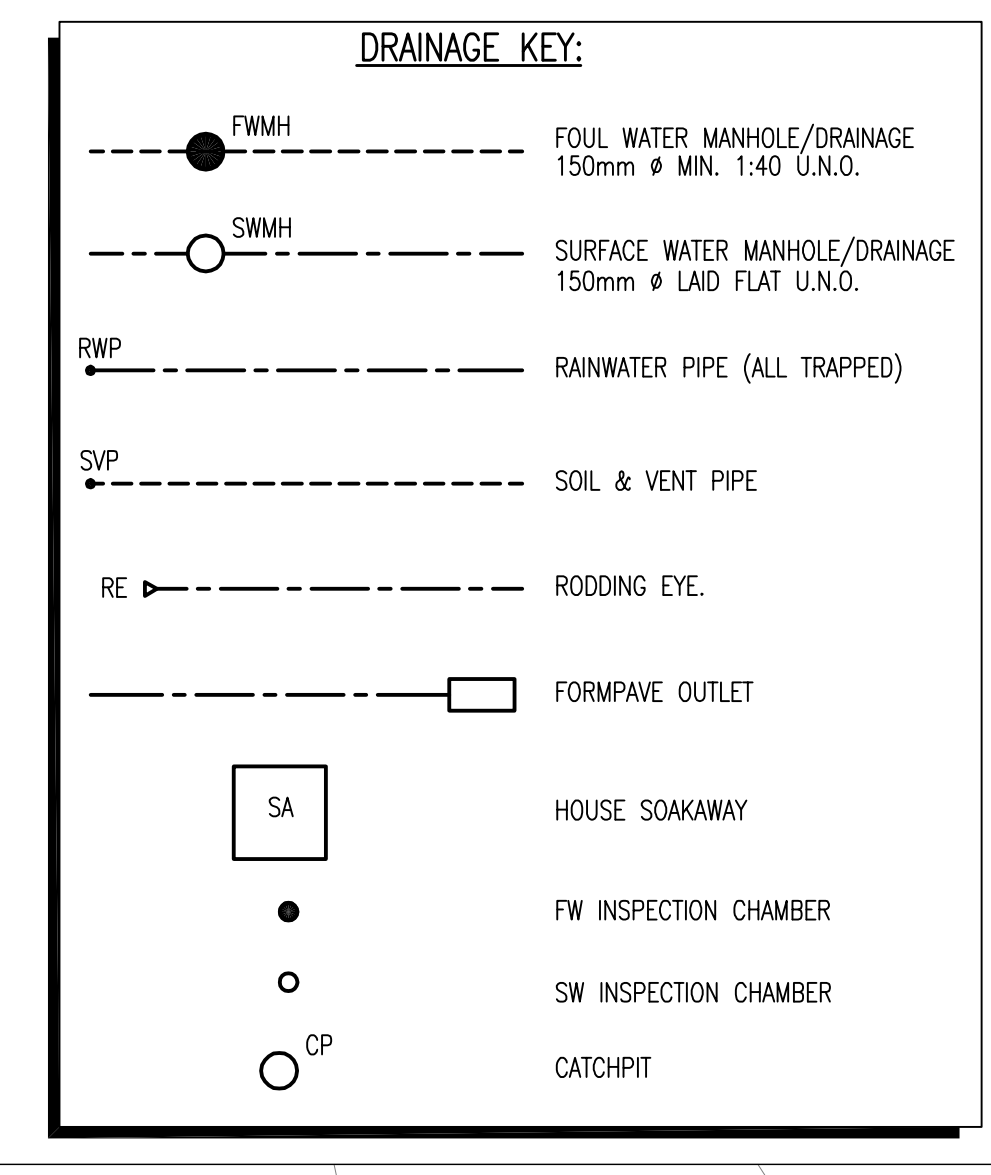




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DRAINAGE NOTES:

D1. INVERT LEVELS AND POSITIONS OF EXISTING DRAINS / CHAMBERS / SEWERS WHERE NEW CONNECTIONS ARE TO BE MADE MUST BE CHECKED AND CONFIRMED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORKS.

D2. ALL DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY, ENVIRONMENT AGENCY AND IN CONJUNCTION WITH ALL RELEVANT BRITISH STANDARDS, CODES OF PRACTICE AND 'SEWERS FOR ADOPTION' AS APPROPRIATE.

D3. ALL DRAINAGE SHALL COMPLY WITH THE TYPICAL DETAILS AND THE REQUIREMENTS OF BS EN 752.

D4. REFER TO MANHOLE SCHEDULE OR DRAWINGS FOR MANHOLE TYPES, SIZE, DEPTHS AND SPECIFIC REQUIREMENTS.

D5. FOR SETTING OUT DIMENSIONS OF SWP'S, RWP'S ETC. REFER TO ARCHITECT'S DRAWINGS.

D6. ALL PIPES UP TO 300mm DIAMETER TO BE VIRIDIFIED CLAY, EXTRA STRENGTH TO BS EN 285 OR BS 65 WITH PLAIN ENDED SLEAVED OR SOCKETED FLEXIBLE JOINTS. ALL PIPES OF 375mm DIAMETER AND OVER, TO BE SULPHATE RESISTING CONCRETE CLASS M WITH SOCKETED FLEXIBLE JOINTS.

D7. INVERTS OF INCOMING BRANCHES SHALL BE AT SPRINGING LEVEL TO THE MAIN PIPE AND FORMED GENERALLY USING CHANNEL PIPES AND SLIPPER BENDS, CUT TO SUIT.

D8. ALL GULLY AND DRAINAGE CHANNEL CONNECTIONS SHALL BE 150mm DIAMETER AND TRAPPED UNLESS OTHERWISE SPECIFIED.

D9. ALL FOUL AND RWP CONNECTIONS SHALL BE 100mm DIAMETER UNLESS OTHERWISE SPECIFIED.

D10. ALL PRE-CAST CONCRETE UNITS IN THE DRAINAGE WORKS SHALL BE MANUFACTURED USING SULPHATE RESISTING CEMENT.

D11. MANHOLE COVERS AND FRAMES SHALL BE TO BS EN 124 AND KITEMARKED. COVER AND FRAMES SHALL BE HEAVY DUTY D400 IN CARRIAGEWAYS AND VEHICULAR AREAS AND MEDIUM DUTY B125 IN FOOTWAYS AND SOFT LANDSCAPING. IN BLOCK PAVED AREAS COVERS SHALL BE RECESSED FABRICATED STEEL.

D12. REFER TO STRUCTURAL DRAWINGS FOR DETAILS OF MANHOLES AND DRAINS CONSTRUCTED WITHIN FLOOR SLABS AND FOUNDATIONS.

D13. COVER LEVELS ARE TO BE RAISED LOCALLY TO SUIT FINISHED GROUND LEVELS.

D14. HEALTH & SAFETY: THE WORKS SHALL BE CARRIED OUT BY SPECIALIST COMPETENT AND EXPERIENCED CONTRACTORS WHO ARE MEMBERS OF A RECOGNISED NATIONAL ORGANISATION.

OPERATIONS SHALL HAVE RECEIVED FULL AND APPROPRIATE TRAINING FOR THE OPERATION THEY ARE TO UNDERTAKE. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH ALL PERTINENT HEALTH AND SAFETY REGULATIONS.

D15. PIPES TO BE LAID TO A MINIMUM GRADIENT OF 1:500 UNLESS NOTED OTHERWISE.

Surface Water Manhole Schedule

Manhole Ref	Cover Level	Invert Level	Depth (m)	Size/ Constr'n	Cover/ Grade
S1	7.50	6.40	1.10	B	B125
S2	7.37	6.40	0.97	B	D400
S3	7.32	6.40	0.92	B	D400
S4	7.15	6.40	0.75	B	D400
S5	7.15	6.40	0.75	B	D400
S6	7.15	6.40	0.75	B	D400
S7	7.15	6.40	0.75	B	D400
S8	7.15	6.40	0.75	B	D400
S9	7.15	6.40	0.75	B	B125
S10	7.15	6.40	0.75	B	D400
S11	7.15	6.40	0.75	B	D400
S12	7.15	6.40	0.75	B	D400
S13	7.15	6.40	0.75	B	B125
S14	7.38	6.40	0.98	B	D400
S15	7.15	6.40	0.75	B	B125
S16	7.15	6.40	0.75	B	B125
S17	7.42	6.40	1.02	B	B125

Foul Manhole Schedule

Manhole Ref	Cover Level	Invert Level	Depth (m)	Size/ Constr'n	Cover/ Grade
F1	7.15	3.28	3.87	B	D400
F2	7.15	4.17	2.98	B	D400
F3	7.15	4.47	2.68	B	D400
F4	7.15	5.46	1.69	B	D400
F5	7.15	5.60	1.55	B	D400
F6	7.15	5.77	1.38	B	D400
F7	7.15	4.74	2.41	B	D400
F8	7.15	5.17	1.98	B	D400
F9	7.15	5.75	1.40	B	D400
F10	7.15	5.99	1.16	B	D400
F11	7.30	6.25	1.05	B	D400
F12	7.40	6.05	1.35	B	D400
F13	7.38	6.03	1.35	B	D400

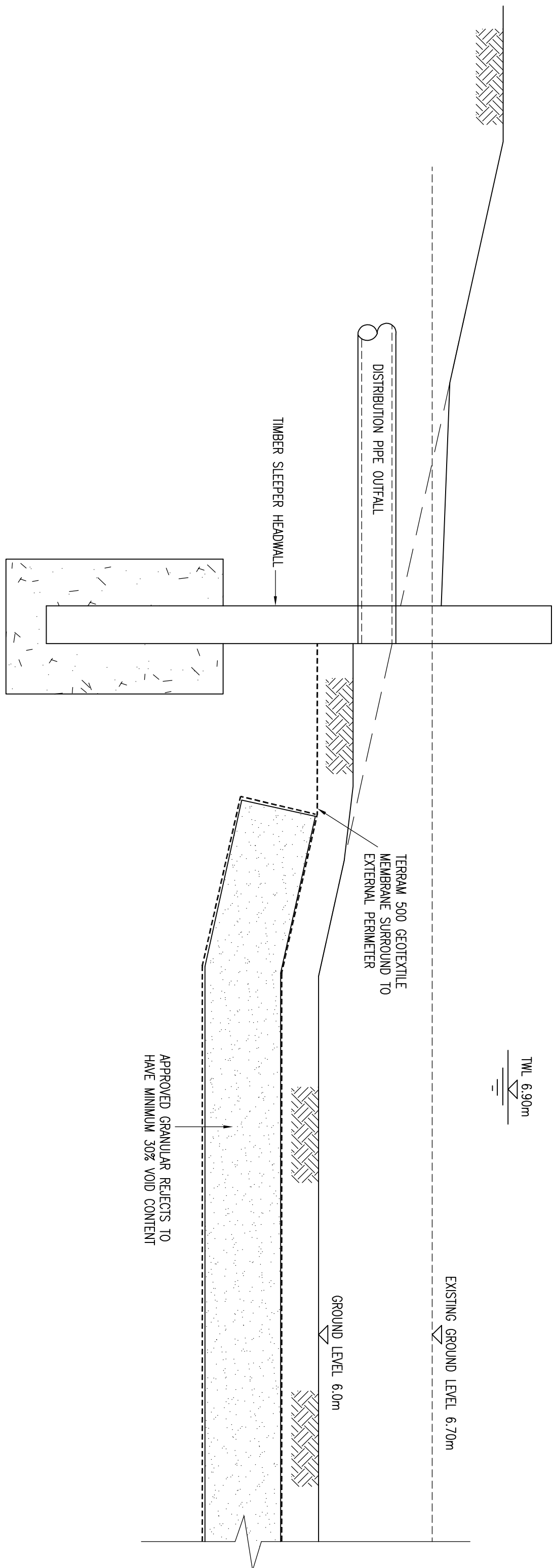
REFER TO HDL DRG. Nos. 14-2260-510 FOR EXTERNAL WORKS/DRAINAGE DETAILS

SIZE OF SOAKAWAYS SUBJECT TO RESULT OF PERCOLATION TESTS

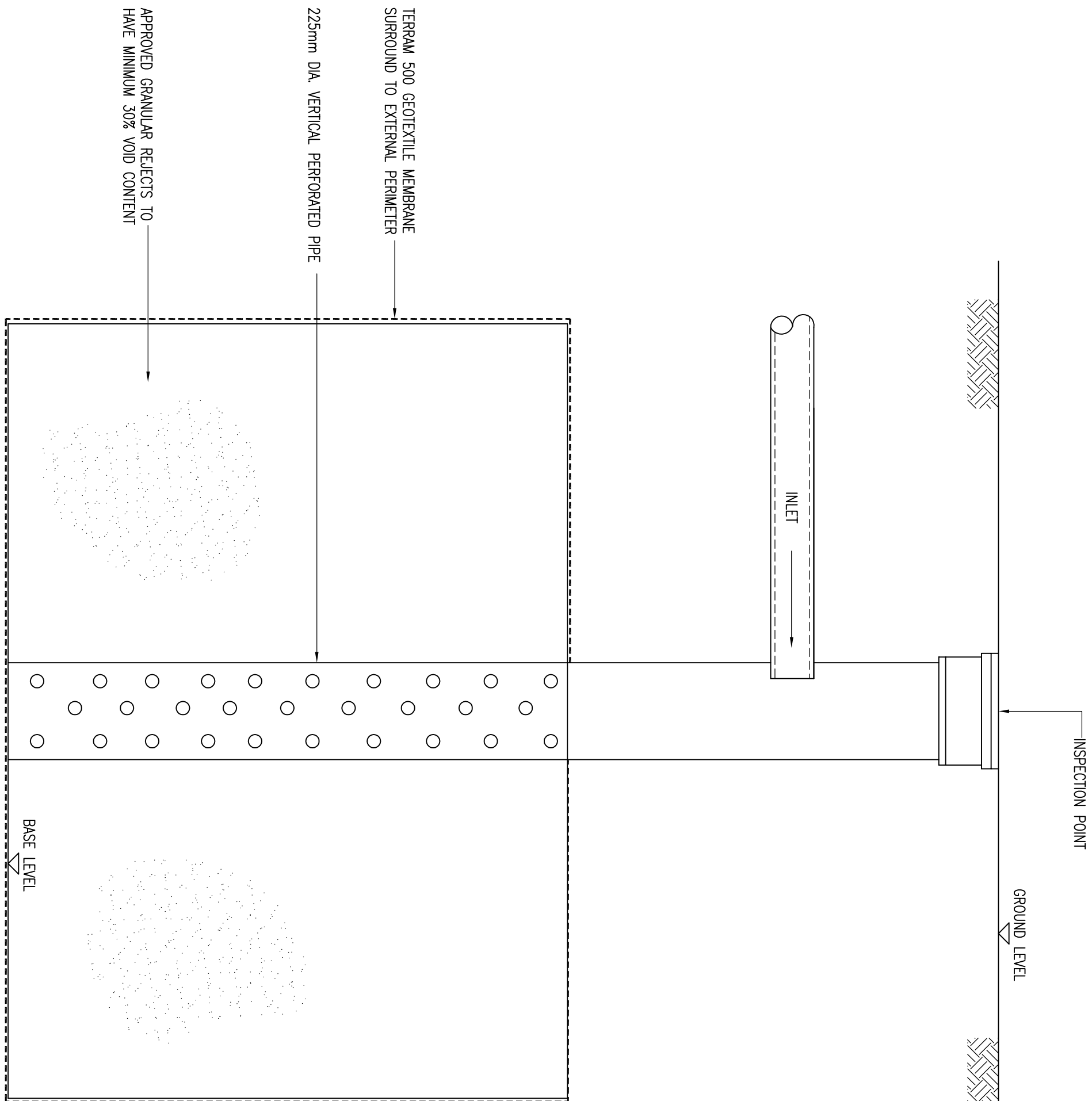
SOAKAWAYS TO BE LOCATED A MINIMUM OF 5m FROM ANY FOUNDATION

P1	PRELIMINARY	HDL/06.14	HDL/06.14	HDL/06.14
Version	Amendment	Revised By	Checked By	Approved By
ORIGINAL DRAWING SIZE - A1		X-REFS:		
CAD REF:				
HDL HAMILL DAVIES LIMITED Consulting Civil and Structural Engineers				
Client: FOREMAN HOMES LTD Project: RANELAGH ROAD, HAVANT Drawing: PROPOSED RESIDENTIAL DEVELOPMENT DRAINAGE LAYOUT				
Purpose: PRELIMINARY		Drawn: HDL	Scale: 1:200 @ A0	Sheet: P1
Drawing Office: CHANMORSE		Designed:	Drawing Number:	14-2260-500
Telephone: 01489 893 596				

PRELIMINARY



DETENTION/INFILTRATION BASIN

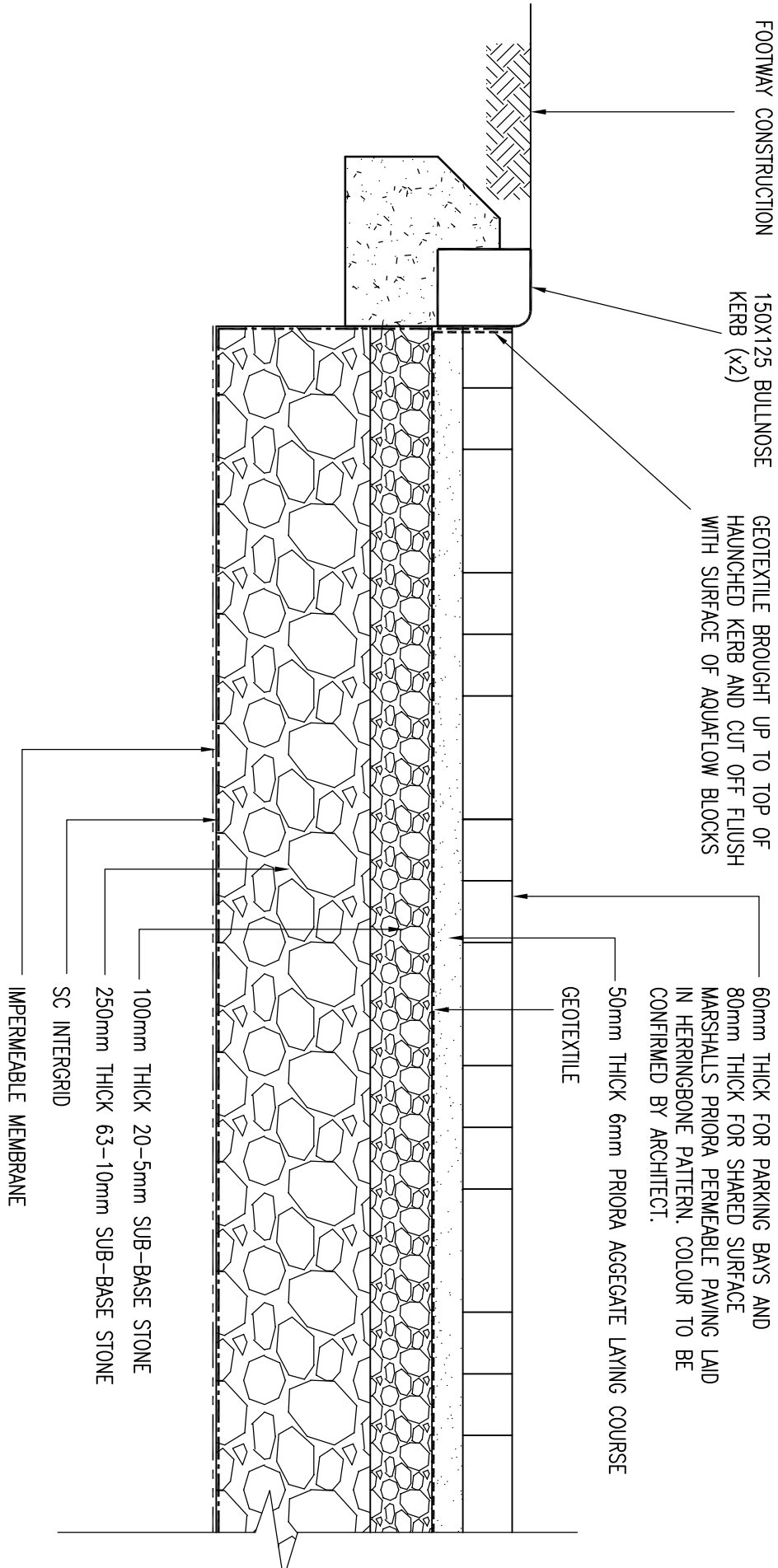


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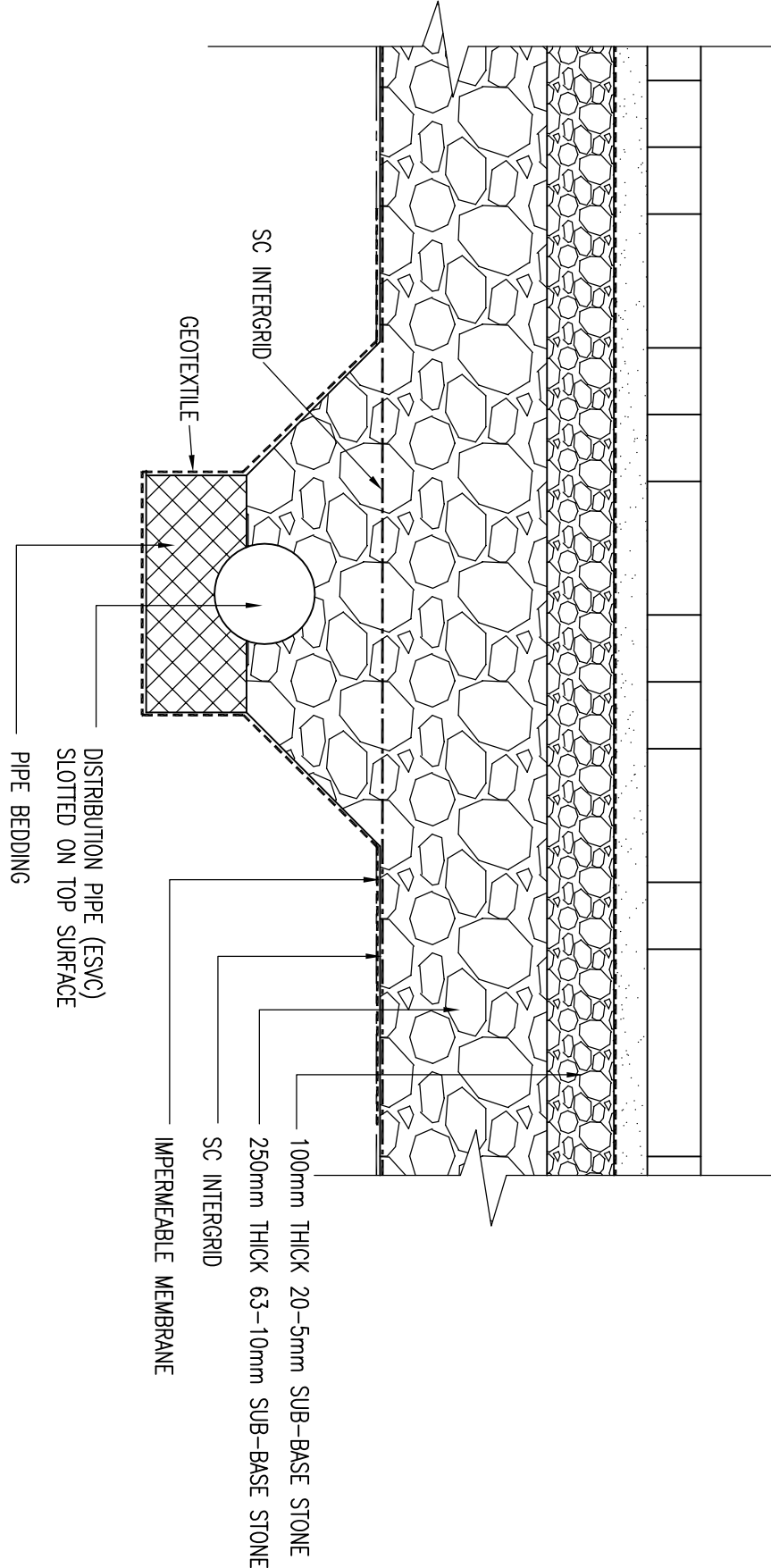
1. ALL SOAKAWAYS TO BE SITUATED 5.0m MIN FROM ANY STRUCTURE (MEASURED FROM EXTENT OF GRANULAR SURROUND)
2. P10 SIZE REQUIRED FOR GRANULAR SURROUND ON THE ABOVE DETAIL
3. SAMPLE TEST RESULTS ARE REQUIRED TO CONFIRM COMPLIANCE WITH THE MINIMUM VOID
4. GEOTEXTILE MEMBRANE TO BE PROVIDED AGAINST ALL FACES OF SOAKAWAY PIT. THE MEMBRANE IS NOT TO BE PROVIDED TO THE FLOOR AREA WITHIN THE PCC RING PERIMETER.

HOUSE SOAKAWAY DETAIL

PRELIMINARY



TYPICAL POROUS ROAD CONSTRUCTION



TYPICAL DISTRIBUTION PIPE

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Version	Approved	Reviewed by and date	Checked by and date	Approved by and date
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CAD REF.	
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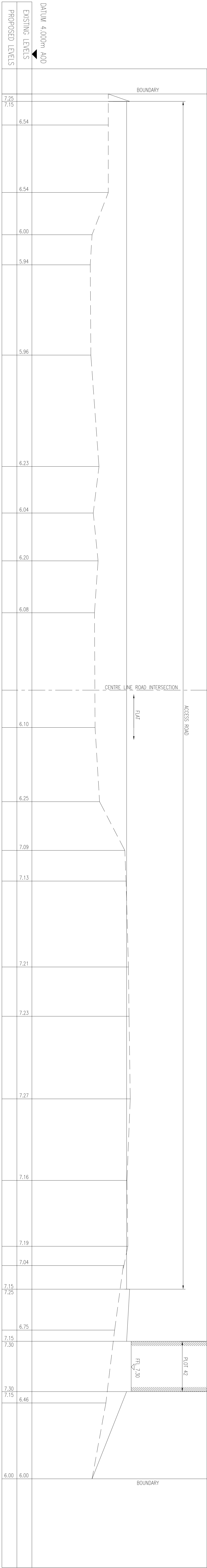
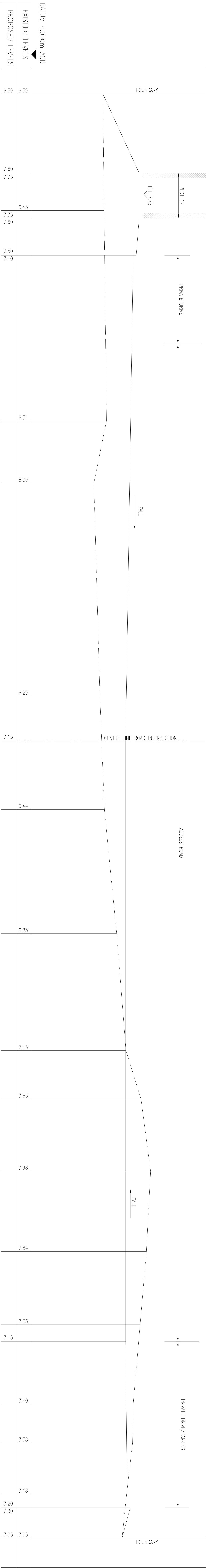
PROPOSED RESIDENTIAL DEVELOPMENT

DAVID L. HAWILL
LIMITED

Structural Engineers	14-2260-600	P1
Swanmore		
Telephone		

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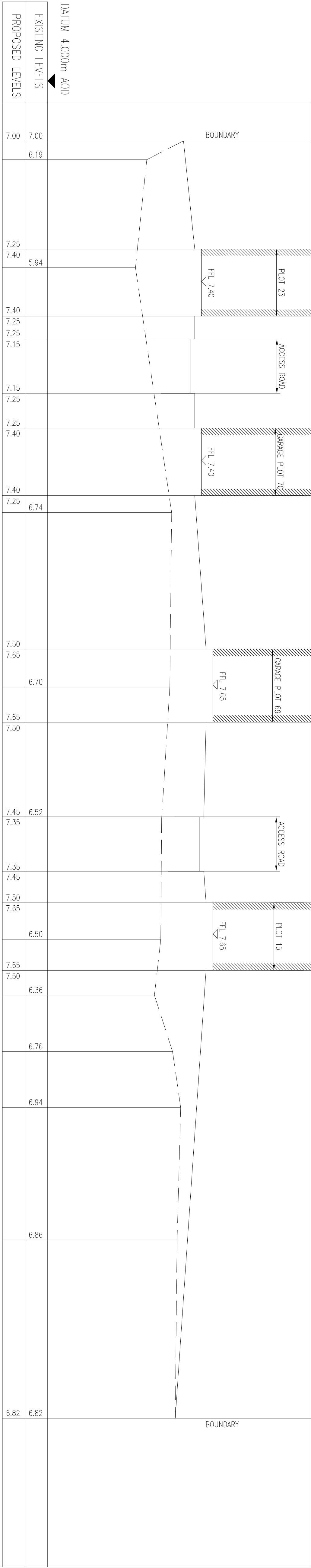
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PROJECT INFORMATION	
Project Name	PROPOSED RESIDENTIAL DEVELOPMENT
Client	HAMIL DAVIES LIMITED
Site	14-2150-601
Scale	1:200 @ 1:50 V
Drawn By	PRELIMINARY
Checked By	
Project Manager	
Structural Engineers	

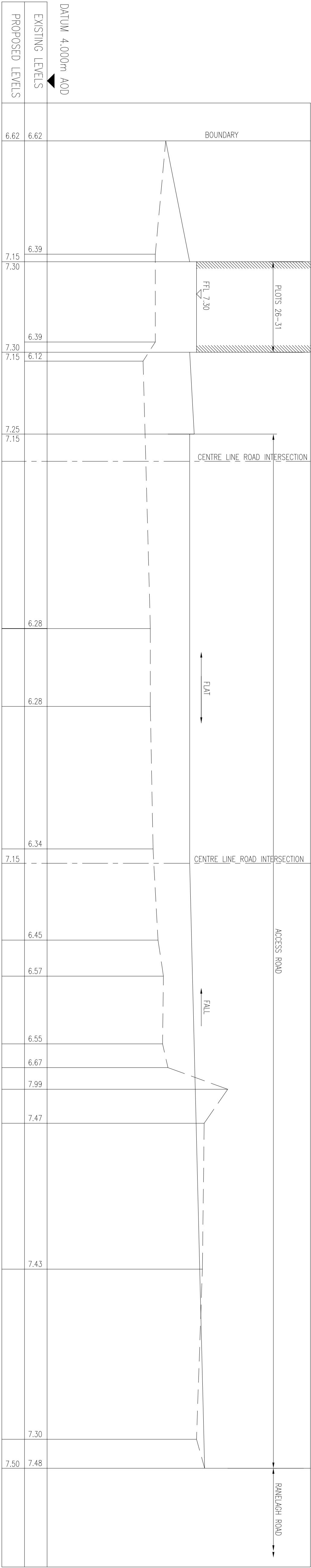
CLIENT INFORMATION	
Client Name	HAMIL DAVIES LIMITED
Client Address	14-2150-601
Client Phone	0189 893 546
Client Email	
Client Website	
Client Notes	

NOTES

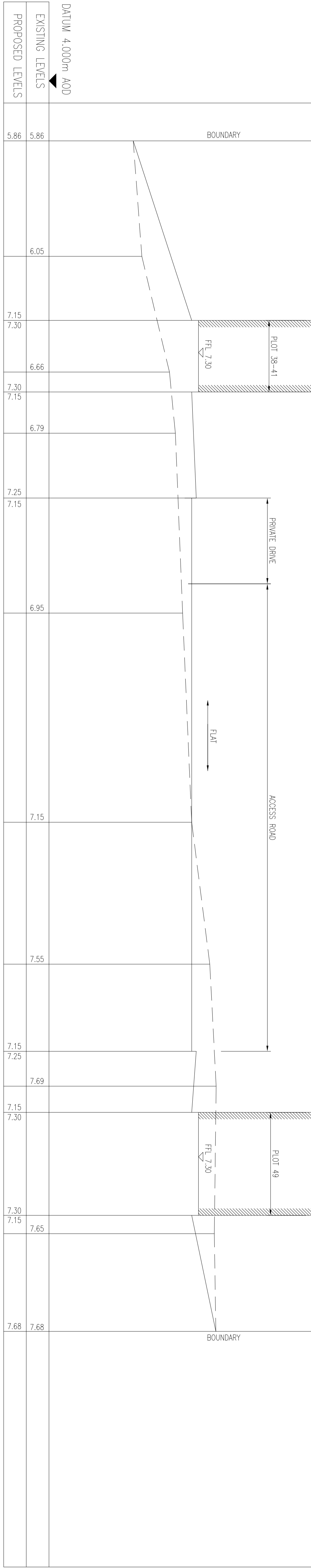
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SECTION E1-E1
SCALE 1:200 H 1:50 V



SECTION E2-E2
SCALE 1:200 H 1:50 V



SECTION E3-E3
SCALE 1:200 H 1:50 V

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PROJECT INFORMATION		CLIENT INFORMATION	
Project No.	14-2760-602	Client Name	HAZEL HILL HOMES LTD
Project Title	PROPOSED RESIDENTIAL DEVELOPMENT	Project No.	14-2760-602
Site Sections Sheet 2 of 2		Client Ref.	14-2760-602
Drawn By	PRELIMINARY	Scale	1:200 @ A0
Checked By		Drawn Date	
Structural Engineers	0189 893 596	Drawn Name	PI

