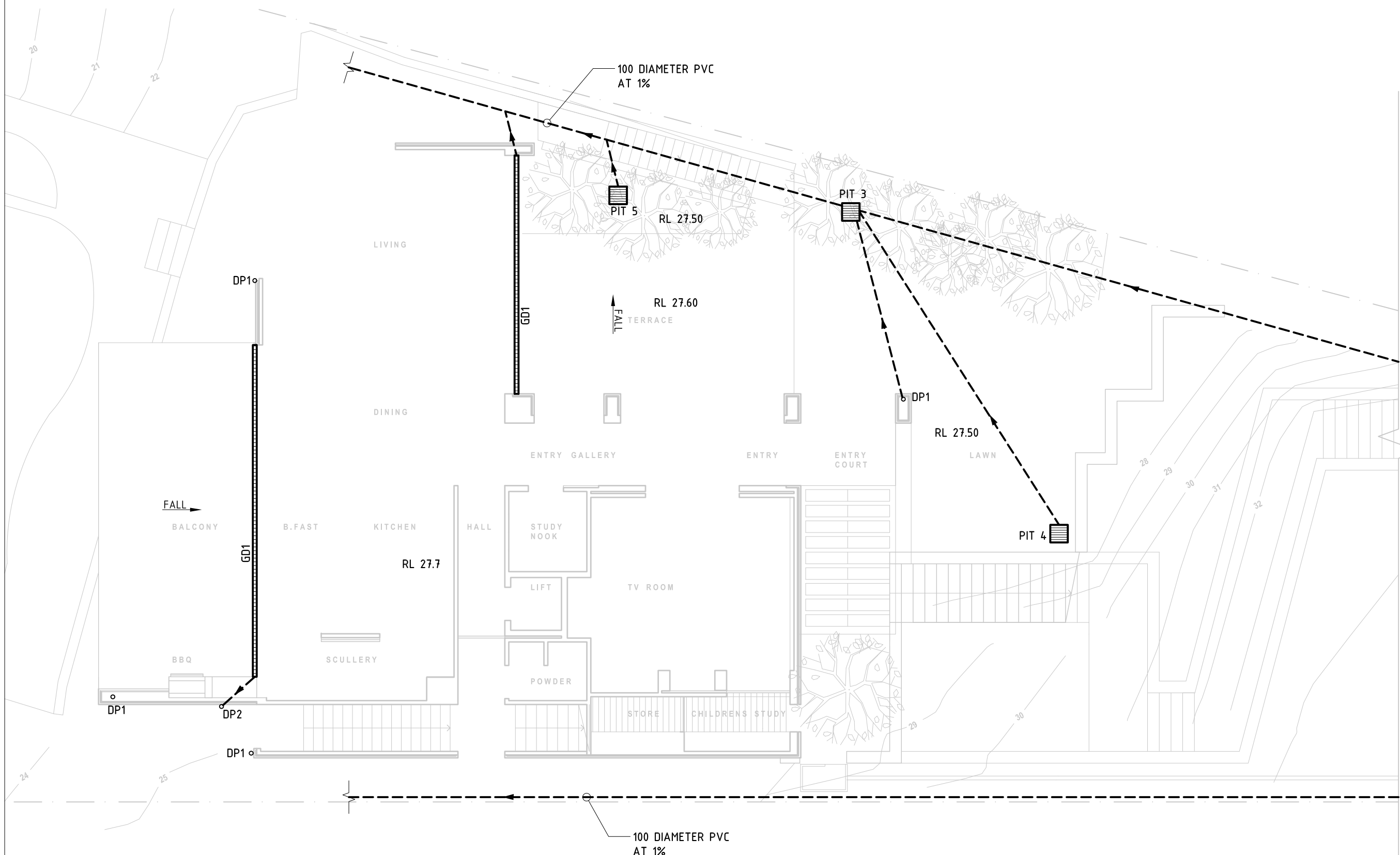
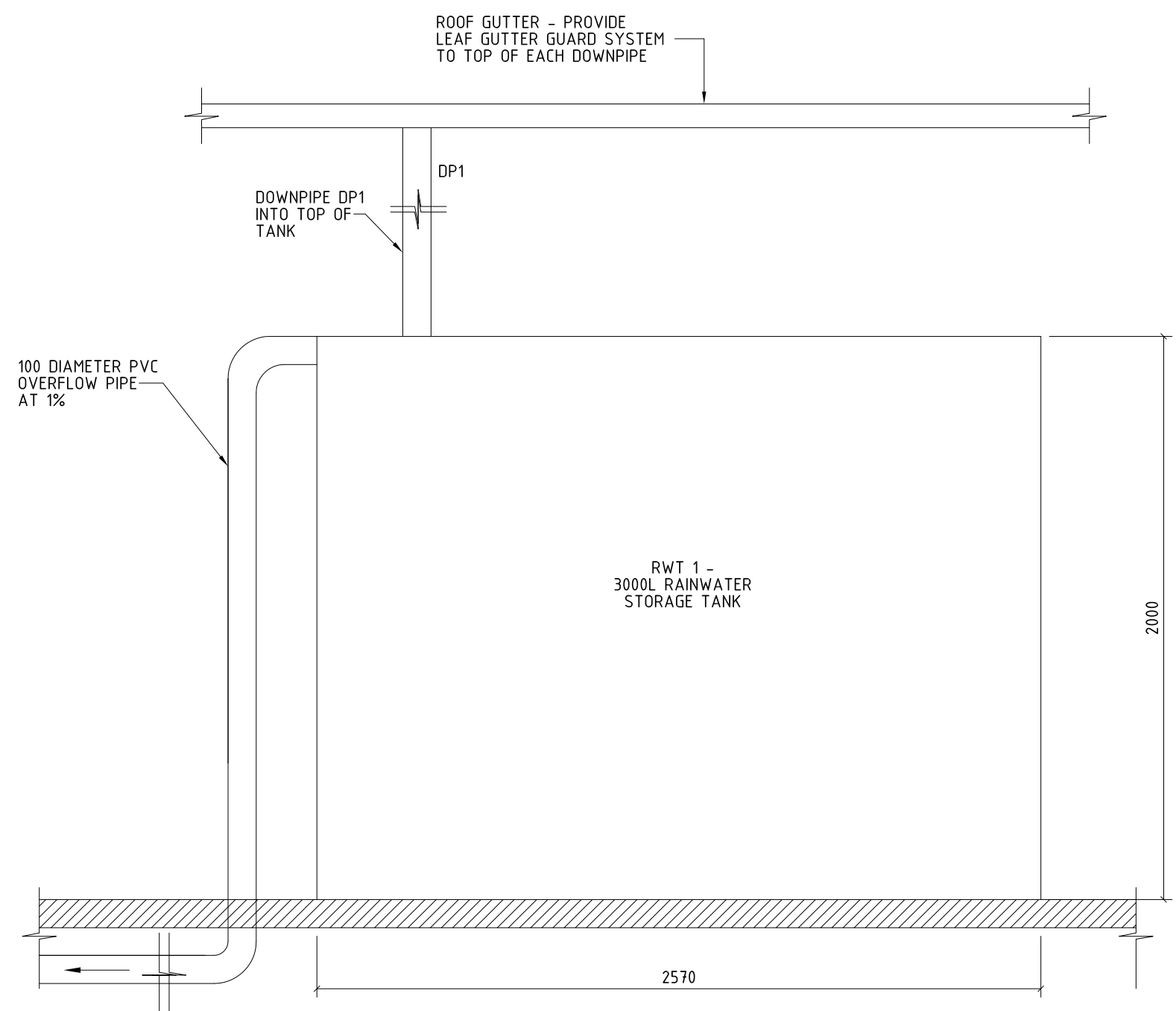


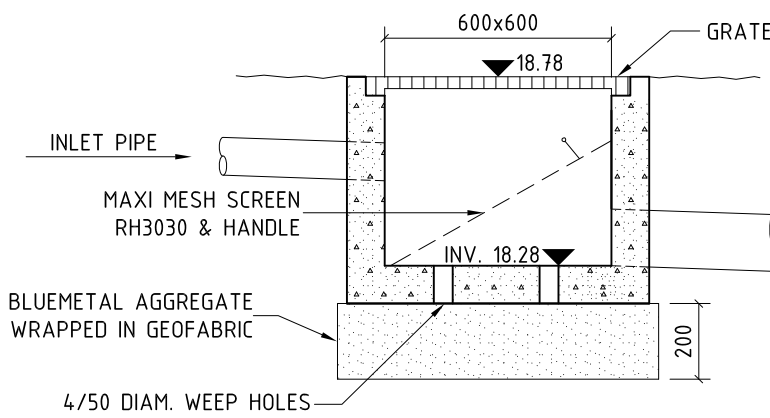
BASEMENT LEVEL DRAINAGE PLAN
1:100



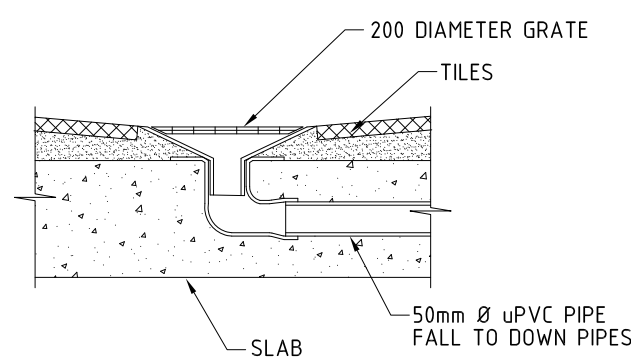
GROUND FLOOR DRAINAGE PLAN
1:100



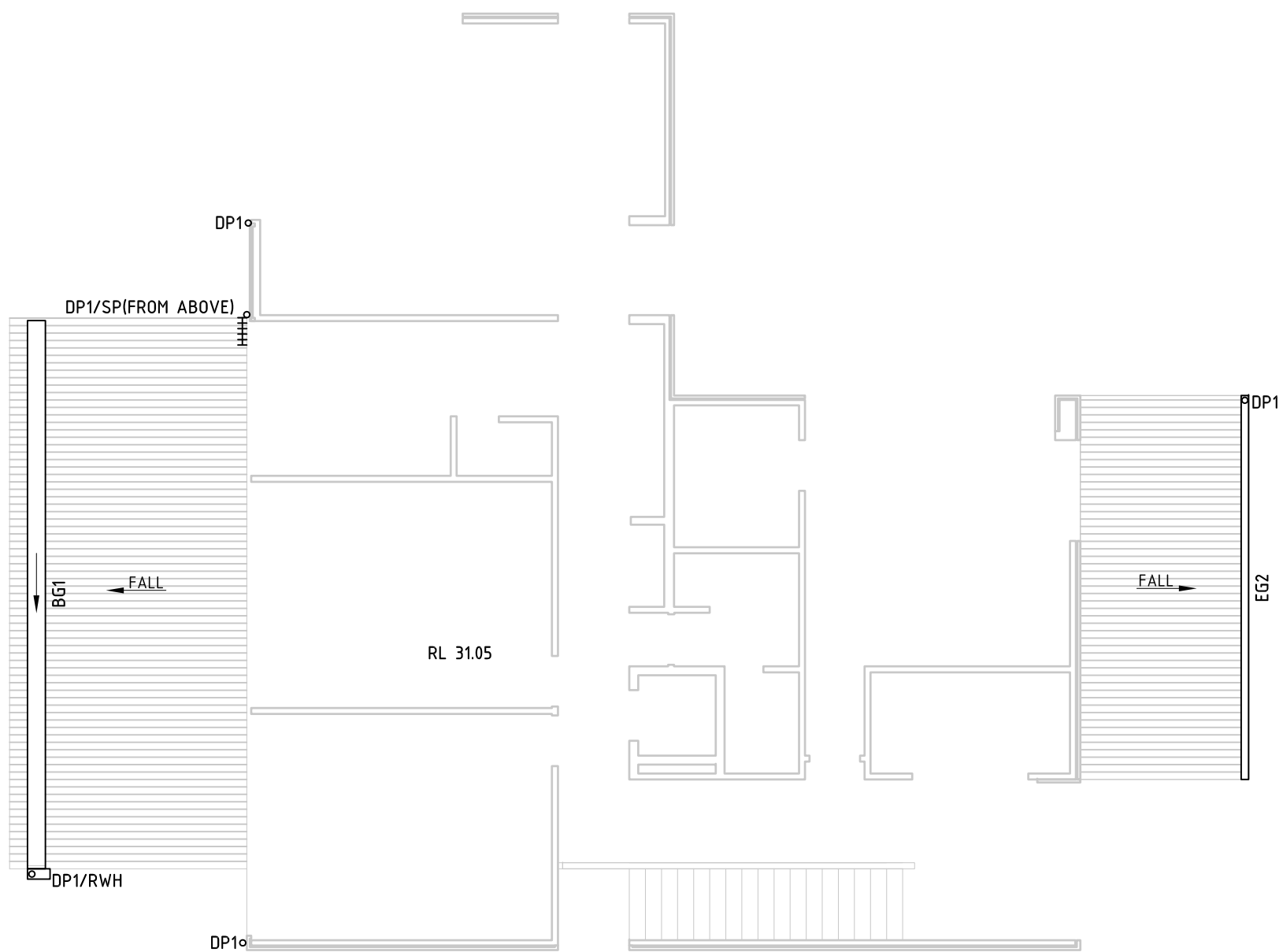
TYPICAL SECTION RAINWATER TANK (RWT)
NOT TO SCALE



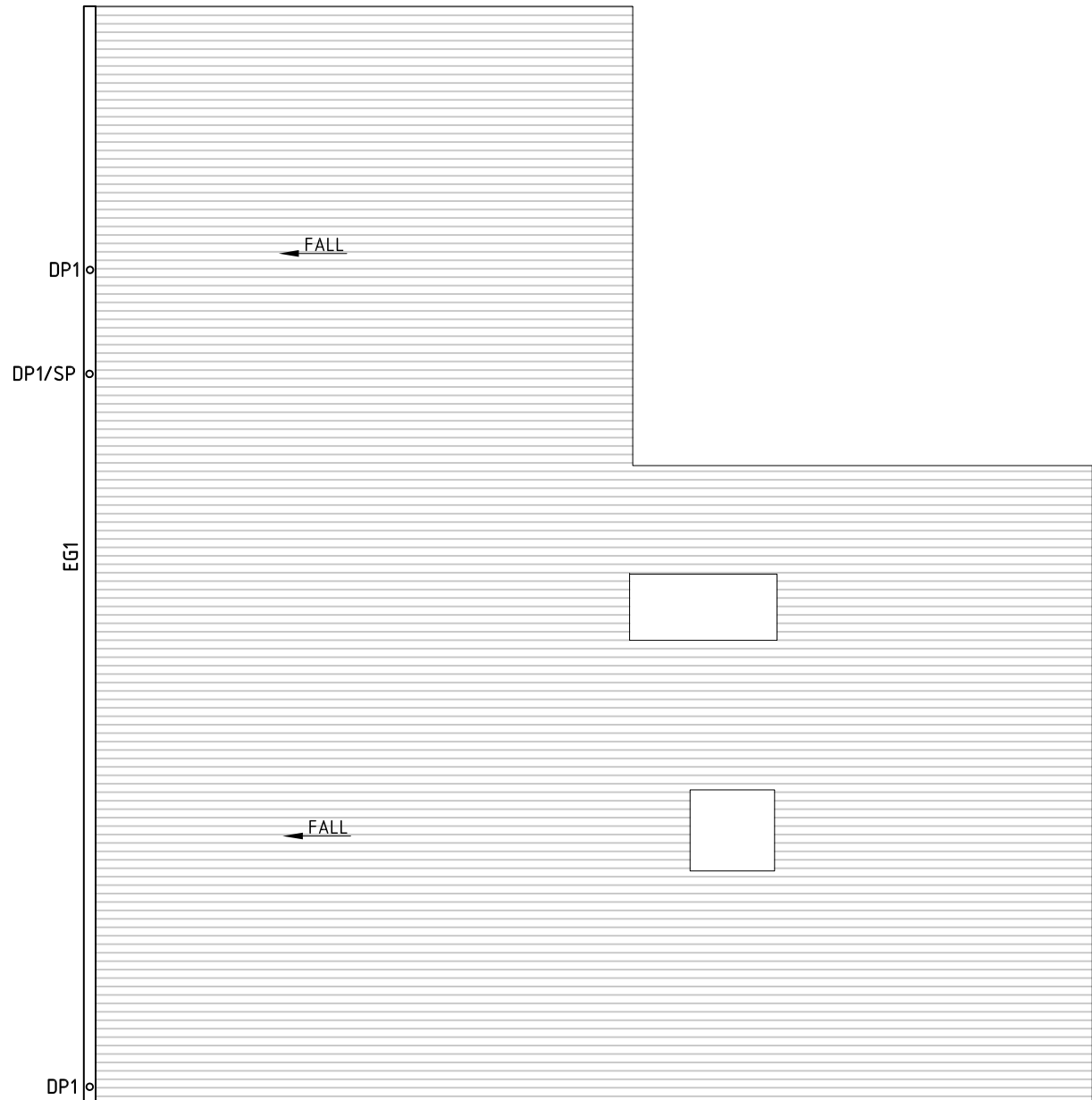
PIT 1 DETAIL (PIT 2-6 SIMILAR)
NOT TO SCALE



FD DETAIL
NOT TO SCALE



FIRST FLOOR & LOWER ROOF DRAINAGE PLAN
1:100



UPPER ROOF DRAINAGE PLAN
1:100

- STORMWATER NOTES:**
1. ALL PIPES TO BE 100mm Ø UNLESS NOTED OTHERWISE.
 2. ALL PIPES TO BE uPVC UNLESS NOTED OTHERWISE.
 3. ALL PIPES TO BE LAYED AT 1 % MINIMUM GRADE UNLESS NOTED OTHERWISE.
 4. ALL PIPES SHALL BE LAID ON A 75mm SAND BED, COMPACTED TO 100% S.M.D.D. BELOW PAVEMENTS. NO COMPACTION REQUIRED BELOW LANDSCAPING COVER TO SURFACE FROM TOP OF PIPE TO BE 300mm MINIMUM. BACKFILL TO BE ADEQUATELY CONSOLIDATED AROUND PIPES BY METHOD OF RAMMING AND WATERING IN. TRENCHES TO BE FILLED WITH GRANULAR MATERIAL AS SPECIFIED.
 5. ALL PIPES SHOWN ON PLAN ARE SHOWN INDICATIVELY ONLY & MINIMUM CLEARANCES FROM THE EXTERNAL WALLS OF BUILDINGS, FOR THE EXCAVATION OF TRENCHES, ARE TO BE PROVIDED IN ACCORDANCE WITH AS3500.
 6. ALL DOWN PIPES TO BE 90mm Ø UNLESS NOTED OTHERWISE.
 7. DOWN PIPE LOCATIONS ARE INDICATIVE ONLY. LOCATIONS TO BE CONFIRMED WITH ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
 8. PROVIDE CLEANING EYES AT ALL DOWNPIPES U.N.O.
 9. ALL PITS GREATER THAN 1000mm DEEP SHALL HAVE STEP IRONS AS PER COUNCIL STANDARDS.
 10. ALL WORK TO BE IN ACCORDANCE WITH LOCAL COUNCIL STANDARDS AND SPECIFICATIONS.
 11. ALL LEVELS SHOWN ARE TO AHD.
 12. ENSURE THAT ALL PITS AND STORMWATER PIPES ARE LOCATED CLEAR FROM TREE ROOT SYSTEMS.
 13. EXCAVATION OF TRENCHES ADJACENT TO TREES TO BE CARRIED OUT USING HAND TOOLS ONLY.
 14. ALL EXISTING EARTHWARE PIPES TO BE UPGRADED TO uPVC.
 15. ALL WORKS TO BE IN ACCORDANCE WITH AS 3500.
 16. THE FOLLOWING ABBREVIATION DENOTES:
FSL - FINISHED SURFACE LEVEL
INV - INVERT

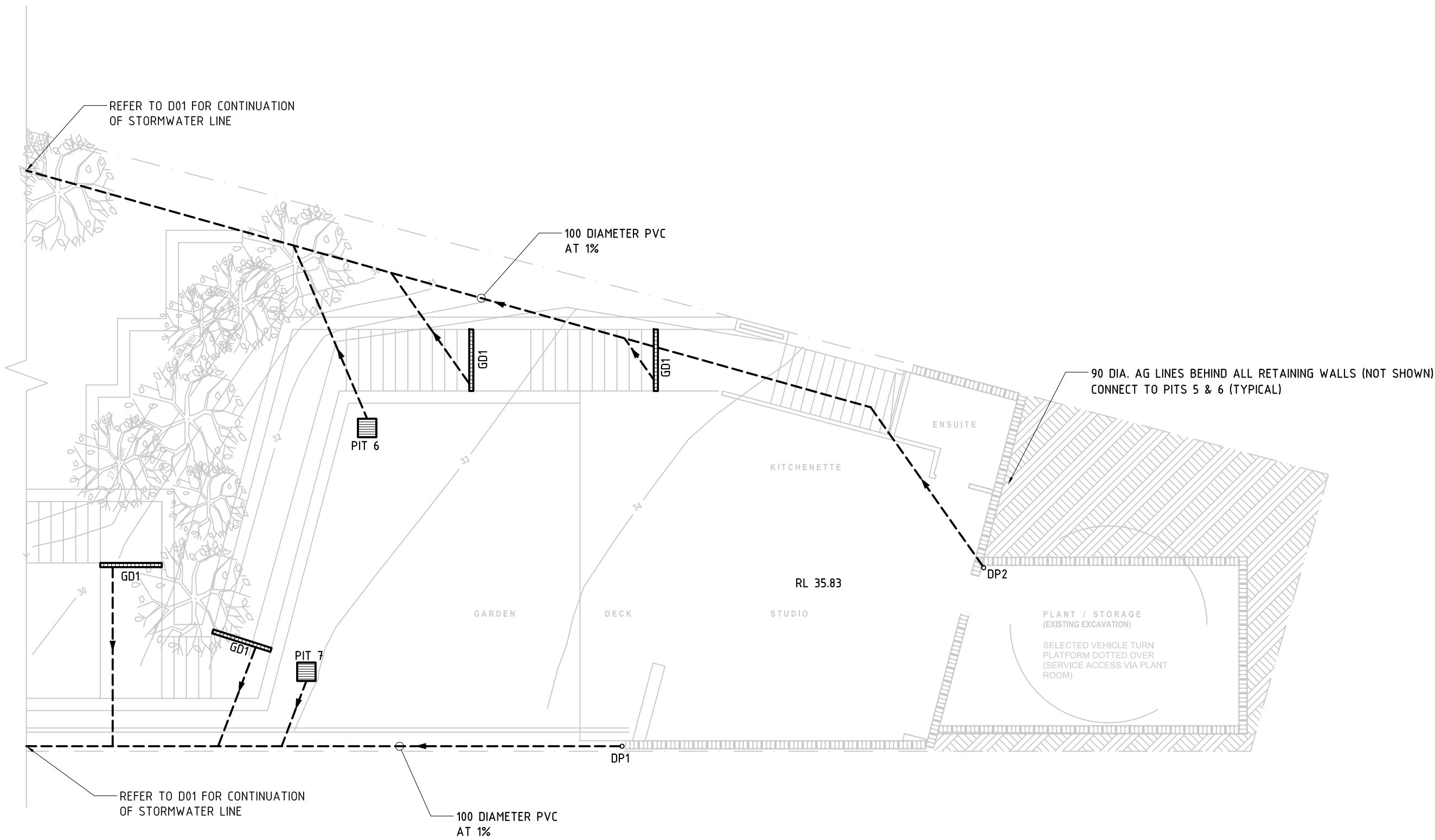
	DENOTES EXISTING LEVELS
	DENOTES PROPOSED LEVELS

AREA CALCULATIONS	
SITE AREA:	967m ²
TOTAL IMPERVIOUS AREA - PRE DEVELOPMENT:	592.8m ²
TOTAL IMPERVIOUS AREA - POST DEVELOPMENT:	666.2m ²
INCREASE IN IMPERVIOUS AREA	73.4m ²

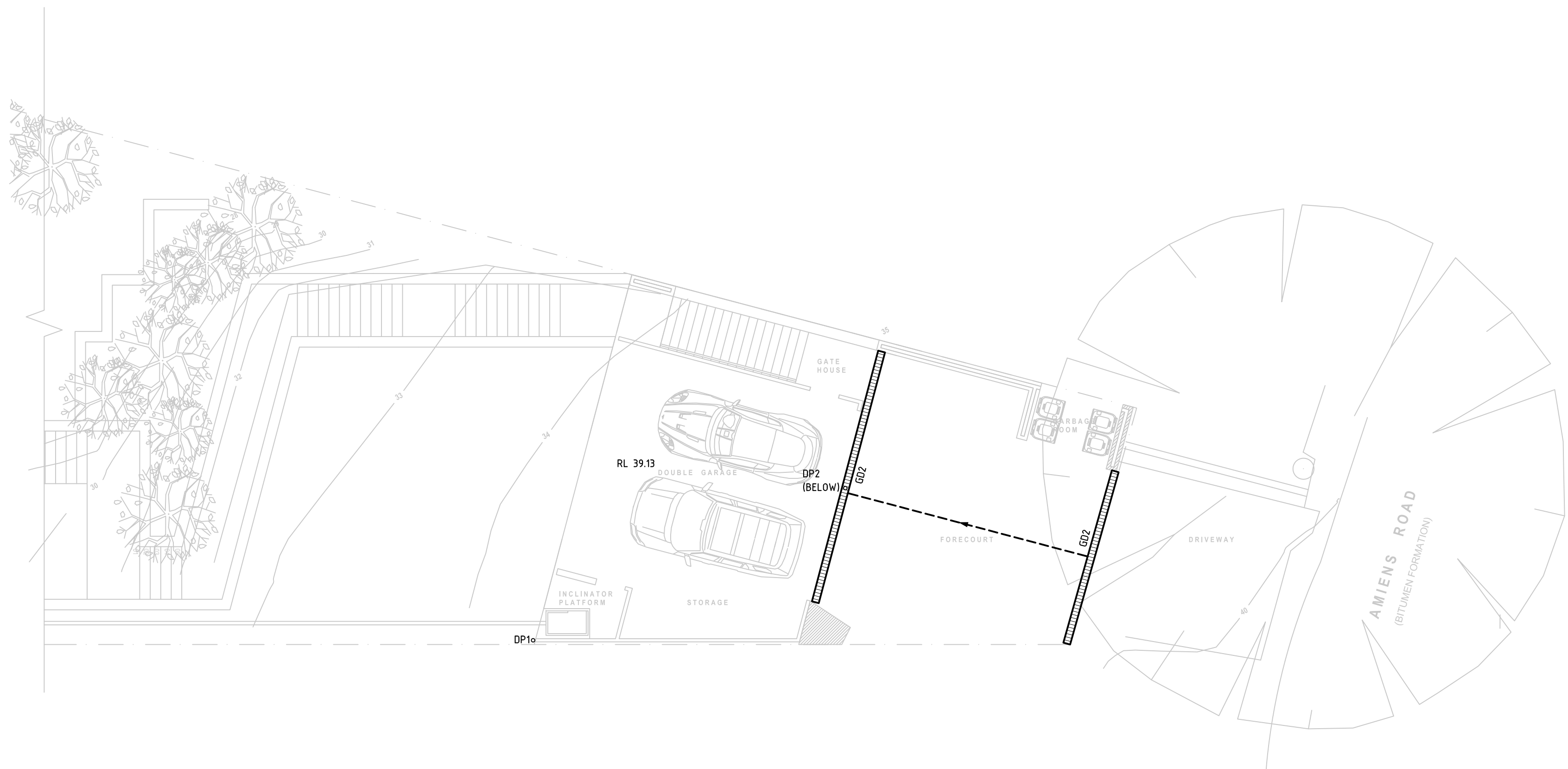
SINCE THE SITE IS LOCATED WITHIN ZONE 3 OF MANLY COUNCIL'S STORMWATER CONTROL ZONES, OSD IS NOT REQUIRED.

MARK	SIZE/TYPE	FSL	INV.
EG1	QUAD 175 EAVES GUTTER	-	-
EG2	QUAD 125 EAVES GUTTER	-	-
BG1	MIN. 150 DEEP x 300 WIDE BOX GUTTER	-	-
SP	SPREADER ONTO LOWER ROOF	-	-
DP1	100 DIAMETER PVC DOWNPIPE	-	-
DP2	100 DIAMETER PVC DOWNPIPE TO COLLECT WATER FROM DRIVEWAY, BALCONY & TERRACE ONLY	-	-
RWH	LYSAGHT TAPERED RAINWATER HEAD (LARGE)	-	-
GD1	100 WIDE x 100 DEEP GRATED DRAIN	-	-
FD	200 DIAMETER FLOOR DRAIN	-	-
PIT 1	600x600 PIT WITH GRATED COVER	18.78	18.28
PIT 2	600x600 PIT WITH GRATED COVER	20.50	20.00
PIT 3	450x450 PIT WITH GRATED COVER	27.50	27.00
PIT 4	450x450 PIT WITH GRATED COVER	27.50	27.00
PIT 5	450x450 PIT WITH GRATED COVER	27.50	27.00
RWT 1	3000 LITRE RAINWATER TANK (2570L-2000Hx785W) AVAILABLE FROM RAINWATERTANKSDIRECT.COM.AU OR SIMILAR. TANK TO COLLECT RAINWATER RUNOFF FROM AT LEAST 100m ² OF ROOF AREA AS SHOWN & BE CONNECTED TO AT LEAST ONE OUTDOOR TAP & ALL TOILETS IN THE DEVELOPMENT. TANK TO BE FITTED WITH FIRST FLUSH DEVICE & WATER FILTRATION DEVICES & INSTALLED IN ACCORDANCE WITH AS3500, BASIX & SYDNEY WATER REQUIREMENTS.	-	-

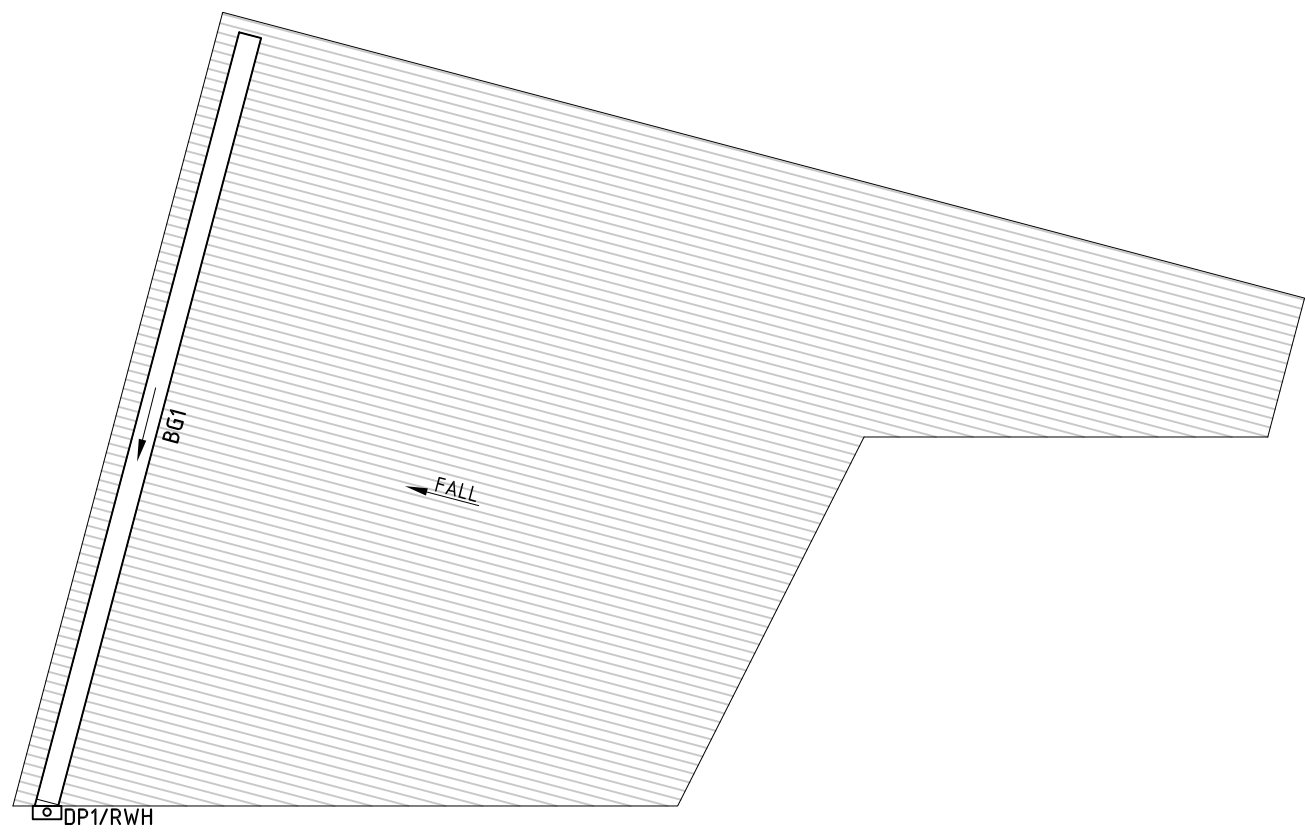
	DENOTES EXISTING LEVELS
	DENOTES PROPOSED LEVELS



STUDIO FLOOR DRAINAGE PLAN
1:100



GARAGE FLOOR DRAINAGE PLAN
1:100



GARAGE ROOF DRAINAGE PLAN
1:100

MARK	SIZE/TYPE	FSL	INV.
BG1	MIN. 150 DEEP x 300 WIDE BOX GUTTER	-	-
DP1	100 DIAMETER PVC DOWNPIPE	-	-
DP2	100 DIAMETER PVC DOWNPIPE TO COLLECT WATER FROM DRIVEWAY, BALCONY & TERRACE ONLY	-	-
GD1	100 WIDE x 100 DEEP GRATED DRAIN	-	-
GD2	200 WIDE x 100 DEEP GRATED DRAIN	-	-
RWH	LYSAGHT TAPERED RAINWATER HEAD (LARGE)	-	-
PIT 6	450x450 PIT WITH GRATED COVER	32.5	32.00 TBC ONTBC ON SITE
PIT 7	450x450 PIT WITH GRATED COVER	33.00	32.50 TBC ONTBC ON SITE

REV.	DATE	REVISION DESCRIPTION	BY	REV.	DATE	REVISION DESCRIPTION
A	11.06.19	ISSUE FOR DA SUBMISSION ONLY	DI			

ARCHITECT	CASE ORNSBY DESIGN PTY LTD
CLIENT	ALAN SCOTT BROWN

STATUS	ISSUE FOR DA SUBMISSION ONLY	DATE	APR 2019
PROJECT	13 AMIENS ROAD, CLONTARF	DESIGNED	YM
		SCALE	REFER DWG
		PAGE SIZE	A1
DRAWING	STORMWATER MANAGEMENT PLAN 2 OF 2	CHECKED	DI
		REVISION	A
		PROJECT NUMBER	190305
		DRAWING NUMBER	D02