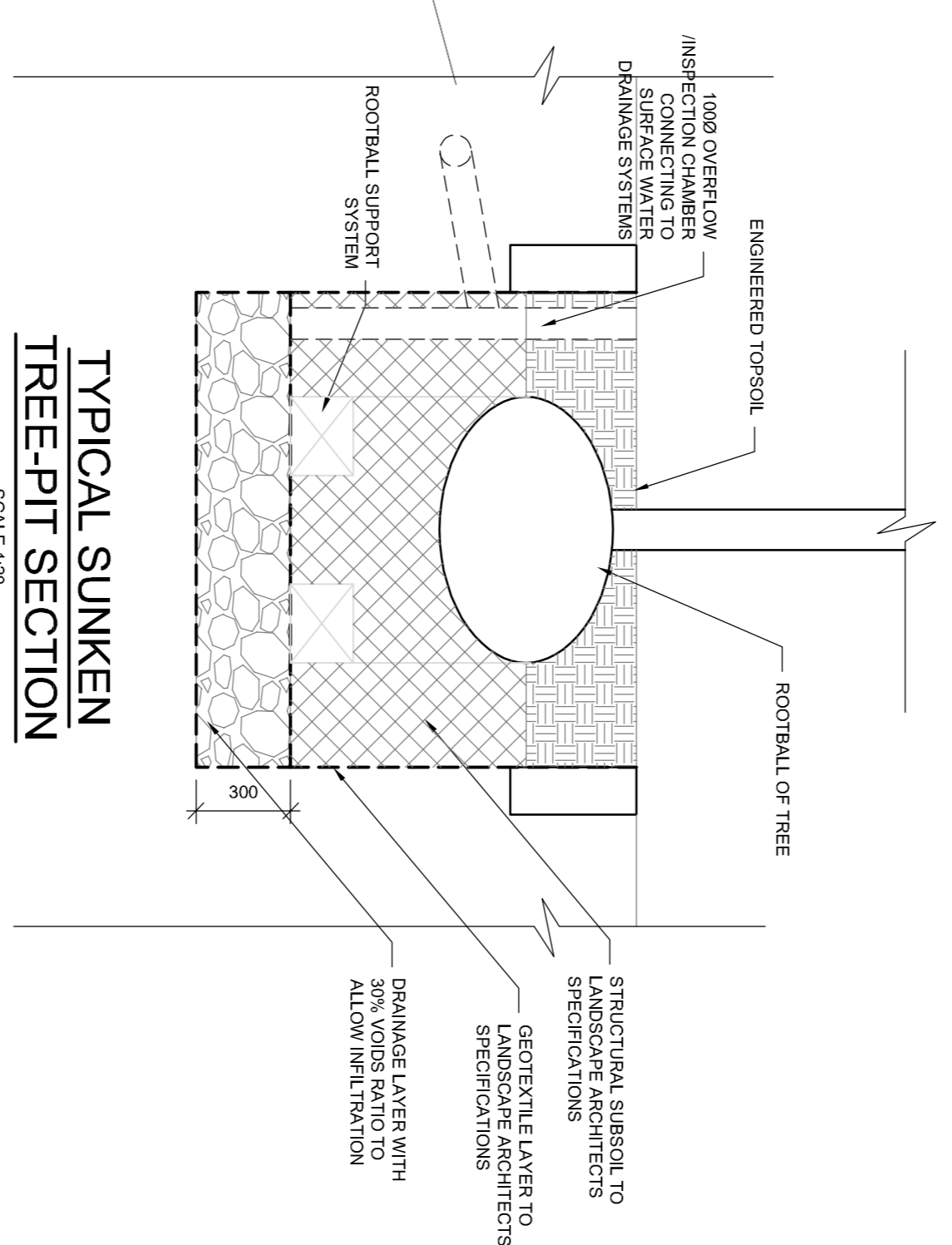




**LEGEND**

- EX SURFACE WATER SEWER
- NEW SURFACE WATER SEWER
- NEW TREE PIT OVERFLOW PIPE
- EX S3
- S3

TP REF:	PIT AREA	SOIL DEPTH	DRAINAGE LAYER DEPTH	VOIDS %	STORAGE VOLUME
TP1	2.25m <sup>2</sup>	1.0m	0.5m	30%	0.203m <sup>3</sup>
TP2	2.25m <sup>2</sup>	1.0m	0.5m	30%	0.203m <sup>3</sup>
TP3	2.25m <sup>2</sup>	1.0m	0.5m	30%	0.203m <sup>3</sup>
TP4	2.25m <sup>2</sup>	1.0m	0.5m	30%	0.203m <sup>3</sup>
TP5	2.25m <sup>2</sup>	1.0m	0.5m	30%	0.203m <sup>3</sup>
TP6	2.25m <sup>2</sup>	1.0m	0.5m	30%	0.203m <sup>3</sup>
TP7	2.25m <sup>2</sup>	1.0m	0.5m	30%	0.203m <sup>3</sup>
TP8	2.25m <sup>2</sup>	1.0m	0.5m	30%	0.203m <sup>3</sup>
TP9	2.25m <sup>2</sup>	1.0m	0.5m	30%	0.203m <sup>3</sup>
TP10	2.25m <sup>2</sup>	1.0m	0.5m	30%	0.203m <sup>3</sup>
TP11	2.25m <sup>2</sup>	1.0m	0.5m	30%	0.203m <sup>3</sup>
TP12	2.25m <sup>2</sup>	1.0m	0.5m	30%	0.203m <sup>3</sup>
TP13	2.25m <sup>2</sup>	1.0m	0.5m	30%	0.203m <sup>3</sup>
TP14	2.25m <sup>2</sup>	1.0m	0.5m	30%	0.203m <sup>3</sup>
TP15	2.25m <sup>2</sup>	1.0m	0.5m	30%	0.203m <sup>3</sup>
TP16	2.25m <sup>2</sup>	1.0m	0.5m	30%	0.203m <sup>3</sup>
TP17	2.25m <sup>2</sup>	1.0m	0.5m	30%	0.203m <sup>3</sup>
TP18	2.25m <sup>2</sup>	1.0m	0.5m	30%	0.203m <sup>3</sup>
TP19	2.25m <sup>2</sup>	1.0m	0.5m	30%	0.203m <sup>3</sup>
TP20	2.25m <sup>2</sup>	1.0m	0.5m	30%	0.203m <sup>3</sup>
TP21	2.25m <sup>2</sup>	1.0m	0.5m	30%	0.203m <sup>3</sup>
TP22	2.25m <sup>2</sup>	1.0m	0.5m	30%	0.203m <sup>3</sup>
TP23	2.25m <sup>2</sup>	1.0m	0.5m	30%	0.203m <sup>3</sup>
TP24	2.25m <sup>2</sup>	1.0m	0.5m	30%	0.203m <sup>3</sup>
TP25	2.25m <sup>2</sup>	1.0m	0.5m	30%	0.203m <sup>3</sup>
TP26	2.25m <sup>2</sup>	1.0m	0.5m	30%	0.203m <sup>3</sup>
TP27	2.25m <sup>2</sup>	1.0m	0.5m	30%	0.203m <sup>3</sup>
TP28	2.25m <sup>2</sup>	1.0m	0.5m	30%	0.203m <sup>3</sup>
TP29	2.25m <sup>2</sup>	1.0m	0.5m	30%	0.203m <sup>3</sup>
TP30	4.00m <sup>2</sup>	0.5m	0m	N/A	0m <sup>3</sup>
TP31	4.00m <sup>2</sup>	0.5m	0m	N/A	0m <sup>3</sup>
TP32	4.00m <sup>2</sup>	0.5m	0m	N/A	0m <sup>3</sup>
TP33	4.00m <sup>2</sup>	0.5m	0m	N/A	0m <sup>3</sup>
TP34	4.00m <sup>2</sup>	0.5m	0m	N/A	0m <sup>3</sup>
TP35	4.00m <sup>2</sup>	0.5m	0m	N/A	0m <sup>3</sup>
TP36	4.00m <sup>2</sup>	0.5m	0m	N/A	0m <sup>3</sup>
TP37	4.00m <sup>2</sup>	0.5m	0m	N/A	0m <sup>3</sup>
TP38	4.00m <sup>2</sup>	0.5m	0m	N/A	0m <sup>3</sup>
TP39	2.42m <sup>2</sup>	0.5m	0m	N/A	0m <sup>3</sup>
TP40-43	5.73m <sup>2</sup>	0.5m	0m	N/A	0m <sup>3</sup>



**SUSTAINABLE URBAN DRAINAGE SYSTEM (SUDS):**

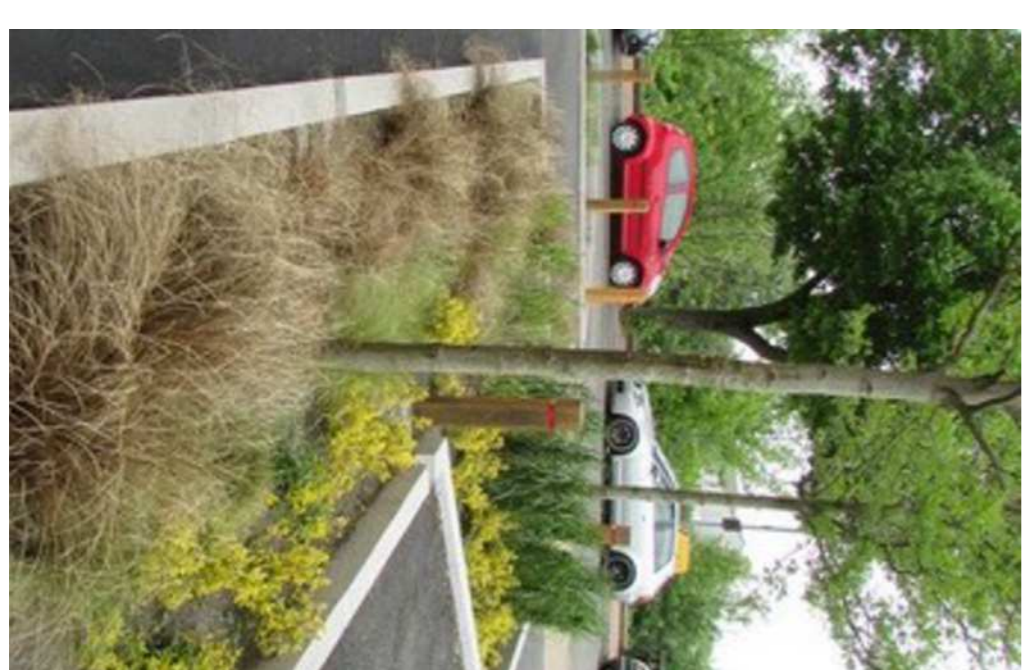
**GREEN ROOF:**  
IT IS PROPOSED TO INCORPORATE THE USE OF GREEN ROOFING SYSTEMS INTO ROOF DESIGNS IN ORDER TO PROVIDE SUFFICIENT INTERCEPTION STORAGE TO MEET THE REQUIREMENTS OF THE GRSIS. THE GREEN ROOF SYSTEM TO THE ROOF OF THE APARTMENT BUILDINGS SHALL BE AN EXTENSIVE GREEN ROOF WITH APPROXIMATELY 10% OF THE ROOF AREA COVERED BY VEGETATION. THE SYSTEM SHALL BE DESIGNED TO RETAIN SUFFICIENT RAINWATER TO PROVIDE INTERCEPTION STORAGE VOLUME AS REQUIRED BY GRSIS INTERCEPTION CRITERIA.

**TREE PITS:**

IT IS ALSO PROPOSED TO INCORPORATE BOTH SUNKEN AND RAISED TREE PITS THROUGHOUT THE DEVELOPMENT. THE RAISED TREE PITS WILL BE ELEVATED ABOVE THE FOOTING SLAB. THE TREE PITS WILL PROMOTE INFILTRATION INTO THE SOIL. EVAPOTRANSPIRATION AND WILL ALSO BE USED UP BY THE TREES.

**TREE PITS DRAINAGE PLAN**

SCALE 1:250



TREE PIT EXAMPLE

Rev	Date	By	CHK'd	Description
1	17/01/22	SR	FV	SHD Stage 3 Submission
0	31/05/21	SR	FV	SHD Stage 2 Submission

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Project:	Dolcain House SHD, Clondalkin, Dublin 22, for Randlewood Holdings LTD	Proj. No.:	C13-B
Drawing:	Tree Pits Drainage Plan & Section Site Layout B	Scale:	@A1
Model Reference:	2148-LDE-ZZ-ZZ-M2-SC-0007	Date:	Aug '21
Drawing Reference:	2148-LDE-ZZ-00-DR-SC-5C13-B	Sheet:	SR
		Rev.:	1

Model Ref.:	P.01.2
Stability:	S0