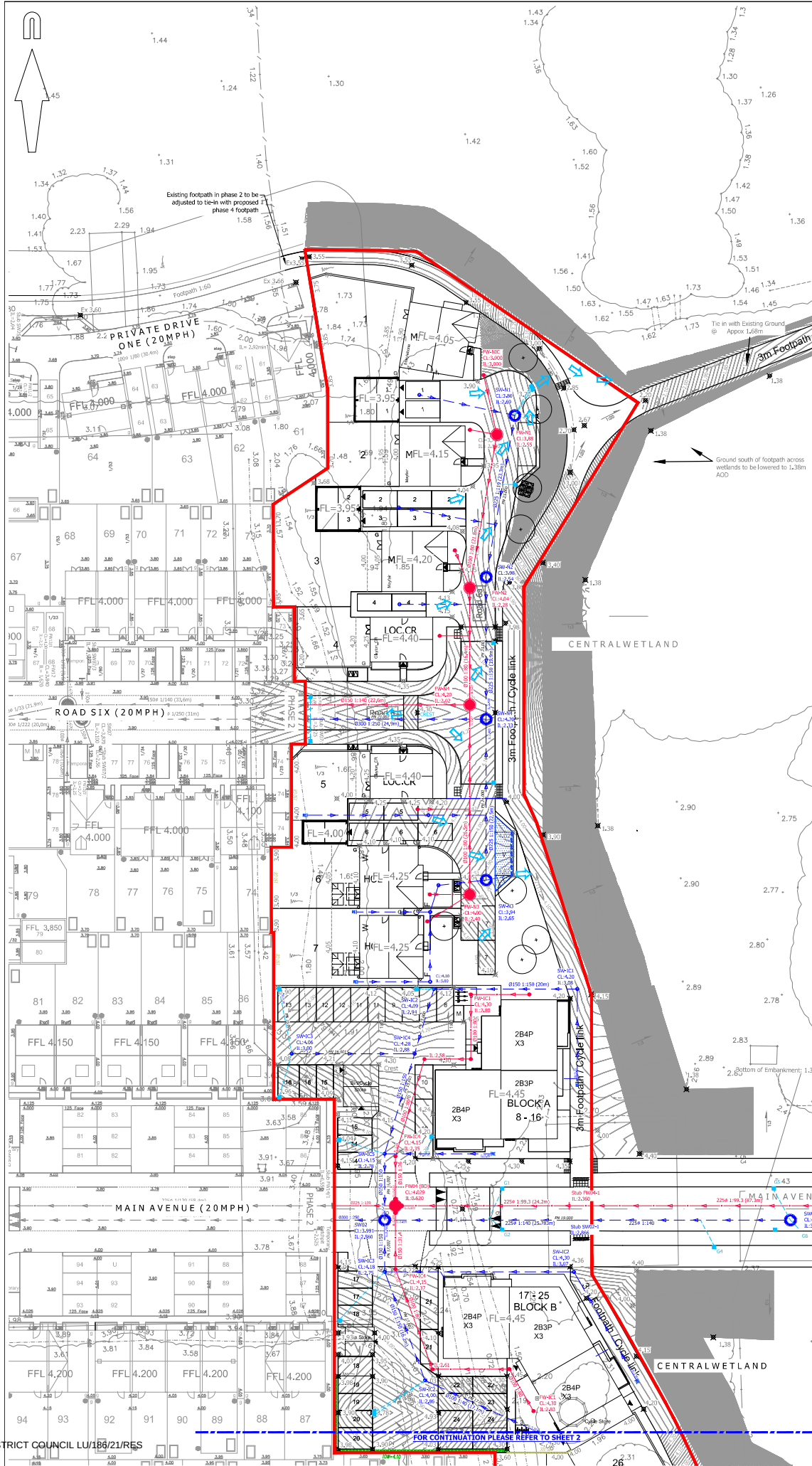




A1 ORIGINAL

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DRAINAGE KEY:

-
1. PROPOSED SURFACE WATER SEWER AND MANHOLE
 2. PROPOSED FOUL WATER SEWER AND MANHOLE
 3. PROPOSED FOUL WATER BACKDROP
 4. PROPOSED SURFACE WATER SEWER AND INSPECTION CHAMBER
 5. PROPOSED FOUL WATER SEWER AND INSPECTION CHAMBER
 6. PROPOSED ROAD GULLY
 7. PROPOSED RODDING EYE
 8. PROPOSED SURFACE WATER OUTFALL
 9. PROPOSED ATTENUATION TANK
 10. PROPOSED PERMEABLE PAVING & FIN DRAIN
 11. EXCESS FLOW ARROWS
 12. PROPOSED CONTOURS
 13. PROPOSED FOUL RISING MAIN
 14. SITE BOUNDARY

LEVELS KEY:

- FL=1.45 PROPOSED FLOOR LEVEL
1/200 PROPOSED GRADIENT
150 GR PROPOSED GRAVEL BOARD RETENTION
TOW=3.85 PROPOSED RETAINING WALL

NOTES:

1. Drawing based on Persimmon Homes Thames Valley Architect's 'Site Layout' drawing reference 545_PL_AP2_I01, received on 15/04/2021.
2. Based on topographic survey by WYG drawing numbered GGI/A044029/I AY/I01.

FOR INFORMATION
NOT FOR CONSTRUCTION

P6	Drawing revised following revised Architects layout (see Application dated 15/09/21) (TC)	SF	20/05/21
P7	Junction between footpath linking phase 2 and 4, and cycleway amended to match revised Architect's layout received on 26/03/2021 (closed), red line boundary amended, (TC)	SF	30/02/21
P6	Footpath linking phase 2 and 4 amended to a constant 2m width, (TC)	SF	18/03/21
P5	Microdrainage pipe levels added, (TC)	SF	22/12/20
P4	Drawing updated following revised layout, Key Updated (TC)	SF	02/10/20
P3	Excavation Flow Arrows Added (SF)	SF	06/07/20
P2	Kerbs updated in parking courts A & B and along the main avenue, (TC)	SF	09/06/20
P1	Initial Issue, (TC)	SF	04/06/20

rev.	amendment	checked	date
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10

PERSIMMON HOMES THAMES VALLEY

revert:

PHASE 4
LITTLEHAMPTON

scale

1:250

date

FEBRUARY 20

Title	Author(s)	Journal	Year
Effect of the type of soil on the growth of the plant	J. Smith	The Journal of Botany	1980
Growth of plants in different soils	M. Jones	The Journal of Botany	1981
Effect of soil type on plant growth	P. Brown	The Journal of Botany	1982
Plant growth in various soils	R. Green	The Journal of Botany	1983
Influence of soil composition on plant development	S. White	The Journal of Botany	1984
Soil characteristics and their effect on plant height	T. Black	The Journal of Botany	1985
How soil quality affects plant growth rate	V. Grey	The Journal of Botany	1986
Plant growth under different soil conditions	X. Blue	The Journal of Botany	1987
Soil texture and its impact on plant biomass	Y. Yellow	The Journal of Botany	1988
Effect of soil pH on plant root system	Z. Purple	The Journal of Botany	1989
Plant growth in acidic vs. alkaline soils	AA. Silver	The Journal of Botany	1990
Soil moisture and its role in plant growth	BB. Gold	The Journal of Botany	1991
Impact of soil salinity on plant health	CC. Bronze	The Journal of Botany	1992
Plant growth in desert vs. temperate soils	DD. Iron	The Journal of Botany	1993
Soil nutrient levels and plant growth	EE. Nickel	The Journal of Botany	1994
Effect of soil compaction on plant roots	FF. Copper	The Journal of Botany	1995
Plant growth in sandy vs. clayey soils	GG. Zinc	The Journal of Botany	1996
Soil temperature and its effect on plant germination	HH. Cadmium	The Journal of Botany	1997
Plant growth in shaded vs. sunny soils	II. Mercury	The Journal of Botany	1998
Soil erosion and its impact on plant communities	JJ. Lead	The Journal of Botany	1999
Plant growth in urban vs. rural soils	KK. Tin	The Journal of Botany	2000
Soil pollution and its effects on plant life	LL. Antimony	The Journal of Botany	2001
Plant growth in contaminated vs. clean soils	MM. Arsenic	The Journal of Botany	2002
Soil remediation techniques and plant growth	NN. Selenium	The Journal of Botany	2003
Plant growth in saline vs. freshwater soils	OO. Tellurium	The Journal of Botany	2004
Soil microclimate and its influence on plant growth	PP. Iodine	The Journal of Botany	2005
Plant growth in high vs. low altitude soils	QQ. Fluorine	The Journal of Botany	2006
Soil biodiversity and its role in plant growth	RR. Boron	The Journal of Botany	2007
Plant growth in forest vs. open field soils	SS. Manganese	The Journal of Botany	2008
Soil carbon sequestration and plant growth	TT. Cobalt	The Journal of Botany	2009
Plant growth in arid vs. humid climates	UU. Nickel	The Journal of Botany	2010
Soil waterlogging and its effect on plant roots	VV. Zinc	The Journal of Botany	2011
Plant growth in cold vs. warm regions	WW. Cadmium	The Journal of Botany	2012
Soil acidification and its impact on plant growth	XX. Mercury	The Journal of Botany	2013
Plant growth in mountain vs. valley soils	YY. Lead	The Journal of Botany	2014
Soil desalination techniques and plant growth	ZZ. Tin	The Journal of Botany	2015
Plant growth in coastal vs. inland soils	AAA. Antimony	The Journal of Botany	2016
Soil erosion control methods and plant growth	BBB. Arsenic	The Journal of Botany	2017
Plant growth in semi-arid vs. subarctic soils	CCC. Selenium	The Journal of Botany	2018
Soil nutrient cycling and its effect on plant growth	DDD. Tellurium	The Journal of Botany	2019
Plant growth in tundra vs. grassland soils	EEE. Iodine	The Journal of Botany	2020
Soil conservation practices and plant growth	FFF. Fluorine	The Journal of Botany	2021
Plant growth in wetland vs. upland soils	GGG. Boron	The Journal of Botany	2022
Soil restoration projects and plant growth	HHH. Manganese	The Journal of Botany	2023
Plant growth in riparian vs. non-riparian soils	III. Cobalt	The Journal of Botany	2024
Soil management strategies and plant growth	JJJ. Nickel	The Journal of Botany	2025
Plant growth in agroforestry vs. monoculture soils	KKK. Zinc	The Journal of Botany	2026
Soil health indicators and plant growth	LLL. Cadmium	The Journal of Botany	2027
Plant growth in organic vs. mineral soils	MMM. Mercury	The Journal of Botany	2028
Soil tillage practices and plant growth	NNN. Lead	The Journal of Botany	2029
Plant growth in no-till vs. conventional tillage soils	OOO. Tin	The Journal of Botany	2030
Soil cover crop benefits and plant growth	PPP. Antimony	The Journal of Botany	2031
Plant growth in cover cropped vs. bare soils	QQQ. Arsenic	The Journal of Botany	2032
Soil mulch effects on plant growth	RRR. Selenium	The Journal of Botany	2033
Plant growth in mulched vs. unmulched soils	SSS. Tellurium	The Journal of Botany	2034
Soil irrigation systems and plant growth	TTT. Iodine	The Journal of Botany	2035
Plant growth in drip vs. flood irrigated soils	UUU. Fluorine	The Journal of Botany	2036
Soil drainage improvements and plant growth	VVV. Boron	The Journal of Botany	2037
Plant growth in well-drained vs. poorly drained soils	WWW. Manganese	The Journal of Botany	2038
Soil aeration techniques and plant growth	XXX. Cobalt	The Journal of Botany	2039
Plant growth in aerated vs. compacted soils	YYY. Nickel	The Journal of Botany	2040
Soil compaction reduction methods and plant growth	ZZZ. Zinc	The Journal of Botany	2041
Plant growth in compacted vs. loose soils	AAAA. Cadmium	The Journal of Botany	2042
Soil vibration effects on plant growth	BBBB. Mercury	The Journal of Botany	2043
Plant growth in vibrated vs. static soils	CCCC. Lead	The Journal of Botany	2044
Soil thermal treatments and plant growth	DDDD. Tin	The Journal of Botany	2045
Plant growth in heated vs. cooled soils	EEEE. Antimony	The Journal of Botany	2046
Soil freezing/thawing cycles and plant growth	FFFF. Arsenic	The Journal of Botany	2047
Plant growth in frozen vs. thawed soils	GGGG. Selenium	The Journal of Botany	2048
Soil UV radiation effects on plant growth	HHHH. Tellurium	The Journal of Botany	2049
Plant growth in shielded vs. exposed soils	IIII. Iodine	The Journal of Botany	2050
Soil gamma radiation effects on plant growth	JJJJ. Fluorine	The Journal of Botany	2051
Plant growth in irradiated vs. non-irradiated soils	KKKK. Boron	The Journal of Botany	2052
Soil neutron radiation effects on plant growth	LLLL. Manganese	The Journal of Botany	2053
Plant growth in neutron-irradiated soils	MMMM. Cobalt	The Journal of Botany	2054
Soil cosmic ray effects on plant growth	NNNN. Nickel	The Journal of Botany	2055
Plant growth in cosmic-ray-exposed soils	OOOO. Zinc	The Journal of Botany	2056
Soil particle size distribution and plant growth	PPPP. Cadmium	The Journal of Botany	2057
Plant growth in fine-textured vs.			

PROPOSED DRAINAGE AND LEVELS DRAWING
(SHEET 1 OF 3)

84. *Journal of Management Education*, 32 (2008), 12, 1209–1220.

Year	Number of cases	Number of deaths
1990	100	10
1991	110	11
1992	120	12
1993	130	13
1994	140	14
1995	150	15
1996	160	16
1997	170	17
1998	180	18
1999	190	19
2000	200	20
2001	210	21
2002	220	22
2003	230	23
2004	240	24
2005	250	25
2006	260	26
2007	270	27
2008	280	28
2009	290	29
2010	300	30
2011	310	31
2012	320	32
2013	330	33
2014	340	34
2015	350	35
2016	360	36
2017	370	37
2018	380	38
2019	390	39
2020	400	40

PHLITTLE P4-20-1



PROPOSED FOULED WATER SEWER AND MANHOLE
PROPOSED SURFACE WATER SEWER AND MANHOLE
PROPOSED FOULED WATER BACKDROP
PROPOSED SURFACE WATER SEWER AND INSPECTION CHAMBER
PROPOSED FOUL WATER SEWER AND INSPECTION

ATTENUATION TANK 01A

Total Catchment Area = 8,570m²

Impermeable Area = 4,350m²

Critical Storm: 1in100yr-30%CC, 240min duration

CL(min) = 3.50m (min) AOD

IL = 1.25m AOD

Softlt = 2.75m AOD

Min cover above tank = 0.75m

Plan Area = 150m²

20m (ft) x 5m (ft) x 1.5m (4ft) x 95% Void Ratio

Tree Root Barrier: Suitable root barrier to be installed around attenuation tanks as per ICOSA water services recommendations. Exact specification to be agreed with ICOSA water when the full S104 technical submission and subsequent S104 approval is obtained that will enable ICOSA Water to adopt the drainage & attenuation tanks, under a S104 agreement.

NOTES:

1. Drawing based on Persimmon Homes Thames Valley Architect's Site Layout drawing reference 545_PL_MP_101, received on 15/04/2021.
2. Based on topographic survey by WYG drawing numbered

FOR APPROVAL
 REPT. F0002, 03 00 00 T 00 00 00 00

#	Study title (abstract retrieved, abstracts listed and location cited, 15/09/21)	SF
P7	Permeable paving and its main amended to suit parking bays. (cited in TC)	SF
P6	Make added about the root tree barrier around the attenuation tank, (cited in TC)	SF
P5	Recirculation pipe block advice, (TC)	SF
P4	Unravelling of the existing drainage, (TC)	SF
P3	Evidence (Flow arrest and permeable paving access), (SF)	SF
P2	Drawing updated following revised layout, (TC)	SF
P1	Initial Issue, (TC)	SF

rev.	amendment	checked	date
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408

20000000

PHASE 4

scale

date

444

GENERAL ARRANGEMENT

2.9 *Exercise:* Derive the 1-loop result for the beta function.

drawing number

DHI TTTI E D4-20-3