

SANITARY DRAINAGE AREA PLAN

SCALE 1:10 000
0m 500m 1000m

LEGEND

- A1=36.987ha 14189 P AREA 1 IN HECTARES POPULATION
- BOUNDARY AREA
- SANITARY SEWER
- ◐ AREA 4 SHADED

SANITARY SEWER DESIGN SHEET

CITY OF LONDON

POPULATION DENSITIES
 A) HIGH DENSITY RESIDENTIAL
 - MAX: 150 uha (60 uha) @ 3 ppu = 450 ppha
 - 1 BEDROOM = 2.5 PPU, 2 BEDROOM = 3.5 PPU
 - AVG: 100 uha (40 uha) @ 3 ppu = 300 ppha
 - MIN: 75 uha (30 uha) @ 3 ppu = 225 ppha
 B) MEDIUM DENSITY RESIDENTIAL
 - MAX: 50 uha (20 uha) @ 3 ppu = 150 ppha
 - AVG: 35 uha (15 uha) @ 4 ppu = 140 ppha
 C) SINGLE FAMILY
 - 25 uha (10 uha) @ 4 ppu = 100 ppha

FLOW $Q = PqM/86.4 + IA$
 where P = Design population in thousands
 q = Average daily per capita town Incap.d
 M = Ham on Factor = $1 + 14(4+P)^{0.5}$
 I = Unit of peak extraneous flow in l/ha.s
 A = Gross tributary area in hectares

DATE: June 27, 2001
 DESIGNED BY: [Name]
 CHECKED BY: [Name]
 SHEET 1 of 1

q = 295 l/cap.d (New growth)
 q = 295 l/cap.d (Post 96)
 q = 346 l/cap.d (Pre 96)

I = 0.117 l/ha.s (Pre 96)
 I = 0.1 l/ha.s (Post 96 & new growth)

AREA #	STREET	LOCATION	FROM MH	TO MH	AREA (HECTARES)	POPULATION		SEWAGE FLOW		SEWER DESIGN					PROFILE									
						NET OR GROSS	(A) TOTAL	PER POP	(P) TOTAL	INFILT	SEWAGE	TOTAL	SIZE	SLOPE	n	VEL	CAP.	LOSSES	Fall in Sewer (m)	LENGTH	INVERT ELEV			
A1-A	Commissioners (new Growth)				WT1002	G	3.38	3.38	55.0	186	186	0.3	2.9	3.2	675	0.15	0.013	0.91	324	0.000	0.107	71.0	265.027	264.920
A1-B	Commissioners (Post 96)				WT1002	G	75.19	78.57	32.9	3529	3715	7.5	44.8	55.6	675	0.15	0.013	0.91	324	0.000	0.107	71.0	265.027	264.920
A1-C	Commissioners				WT1002	G	231.30	363.87	10474	14189	34.1	135.4	225.1	675	0.15	0.013	0.91	324	0.000	0.107	71.0	265.027	264.920	
	Essment				WT1002	24	363.87	0	14189	0	0	0	0	687.9	0.60	0.013	1.94	858	0.096	0.272	45.5	264.460	264.188	
	Essment				WT1002	23	363.87	0	14189	0	0	0	0	687.9	0.60	0.013	1.94	858	0.237	0.351	58.4	263.806	263.455	
	Essment				WT1002	22	363.87	0	14189	0	0	0	0	687.9	0.60	0.013	1.94	858	0.000	0.480	80.0	262.863	262.389	
	Essment				WT1002	21	363.87	0	14189	0	0	0	0	687.9	0.60	0.013	1.94	858	0.000	0.480	80.0	262.863	262.389	
	Essment				WT1002	20	363.87	0	14189	0	0	0	0	687.9	0.60	0.013	1.94	858	0.173	0.437	72.8	261.794	261.357	
A2	Old Wonderland				WT1002	19	403.21	15.0	500	14689	3.9	6.8	237.7	750	1.00	0.013	2.51	1107	0.000	0.600	80.0	261.300	260.500	
	Old Wonderland				WT1002	18	403.21	0	14689	0	0	0	0	700.6	0.70	0.013	2.10	926	0.000	0.700	100.0	260.440	259.740	
	Old Wonderland				WT1002	17	403.21	0	14689	0	0	0	0	700.6	0.70	0.013	1.94	858	0.000	0.600	100.0	259.690	259.090	
	Old Wonderland				WT1002	16	403.21	0	14689	0	0	0	0	700.6	0.70	0.013	1.94	858	0.000	0.640	80.0	259.040	258.400	
	Old Wonderland				WT1002	15	403.21	0	14689	0	0	0	0	700.6	0.70	0.013	2.24	990	0.000	0.400	50.0	258.350	257.950	
	Old Wonderland				WT1002	14	403.21	0	14689	0	0	0	0	700.6	0.70	0.013	2.24	990	0.000	0.400	50.0	258.350	257.950	
	Old Wonderland				WT1002	13	403.21	0	14689	0	0	0	0	700.6	0.70	0.013	2.51	1107	0.000	1.400	100.0	257.350	256.850	
	Old Wonderland				WT1002	12	403.21	0	14689	0	0	0	0	700.6	0.70	0.013	5.93	2620	0.000	1.400	25.0	253.550	252.150	
	Old Wonderland				WT1002	11	403.21	0	14689	0	0	0	0	700.6	0.70	0.013	5.93	2620	0.000	1.400	25.0	253.550	252.150	
	Old Wonderland				WT1002	10	403.21	0	14689	0	0	0	0	700.6	0.70	0.013	5.93	2620	0.000	1.400	25.0	253.550	252.150	
	Old to New Wonderland				WT1002	9	403.21	0	14689	0	0	0	0	700.6	0.70	0.013	2.51	1107	0.361	0.281	8.3	246.406	246.200	
	Wonderland				WT1002	8	403.21	0	14689	0	0	0	0	700.6	0.70	0.013	3.54	1566	0.006	0.643	42.2	245.300	245.057	
	Wonderland				WT1002	7	403.21	0	14689	0	0	0	0	700.6	0.70	0.013	3.54	1566	0.035	0.208	82.8	244.854	242.825	
	Wonderland/Spring				WT1002	6	403.21	0	14689	0.0	0.0	0.0	0.0	700.6	0.70	0.013	3.54	1566	0.224	1.600	80.0	242.525	240.325	
	Wonderland				WT1002	5	403.21	0	14689	0	0	0	0	700.6	0.70	0.013	5.93	2620	0.000	5.320	95.0	240.325	235.005	
A3-A	EW GROWTH				WT1002	4	85.46	488.67	55.0	5264	13953	8.5	53.7	310.0	750	1.00	0.013	2.51	1107	0.112	1.000	100.0	234.405	233.405
A3-B	Wonderland/Spring				WT1002	4	85.46	542.95	3745	23638	6.4	55.4	888.0	750	1.00	0.013	2.51	1107	0.112	1.000	100.0	234.405	233.405	
A4	Wonderland/Crestlaw				WT1002	4	254.73	797.74	44.6	11366	35064	180.3	145.2	1213.4	825	1.00	0.013	2.67	1428	0.273	1.000	100.0	234.405	233.405
	Wonderland				WT1002	3	797.74	0	35064	0	0	0	0	546.7	0.625	1.00	0.013	2.67	1428	0.037	0.650	65.0	233.350	232.700
	Wonderland				WT1002	2	797.74	0	35064	0	0	0	0	546.7	0.625	1.00	0.013	2.67	1428	0.033	0.450	45.0	232.650	232.200
	Wonderland				WT1002	1	797.74	0	35064	0	0	0	0	546.7	0.625	0.65	0.013	2.15	1151	0.089	0.130	20.0	231.939	231.663

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SANITARY SEWER DESIGN SHEET

JUNE 2000 STORM
CITY OF LONDON

POPULATION DENSITIES
 A) HIGH DENSITY RESIDENTIAL
 - MAX: 150 uha (60 uha) @ 3 ppu = 450 ppha
 - 1 BEDROOM = 2.5 PPU, 2 BEDROOM = 3.5 PPU
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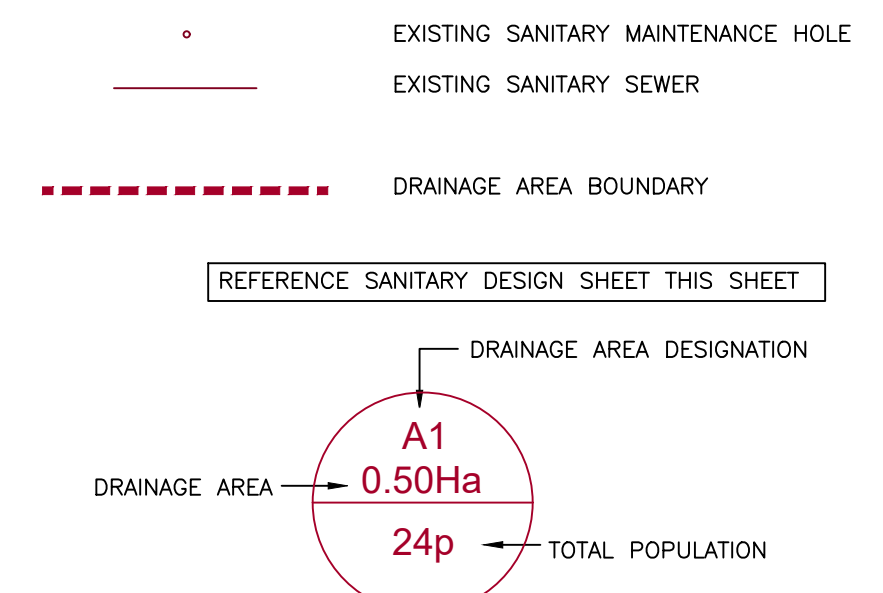
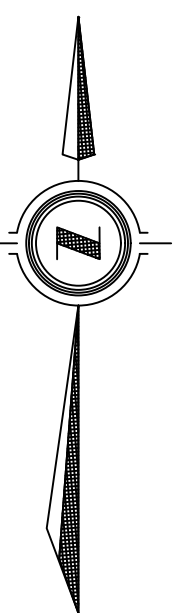
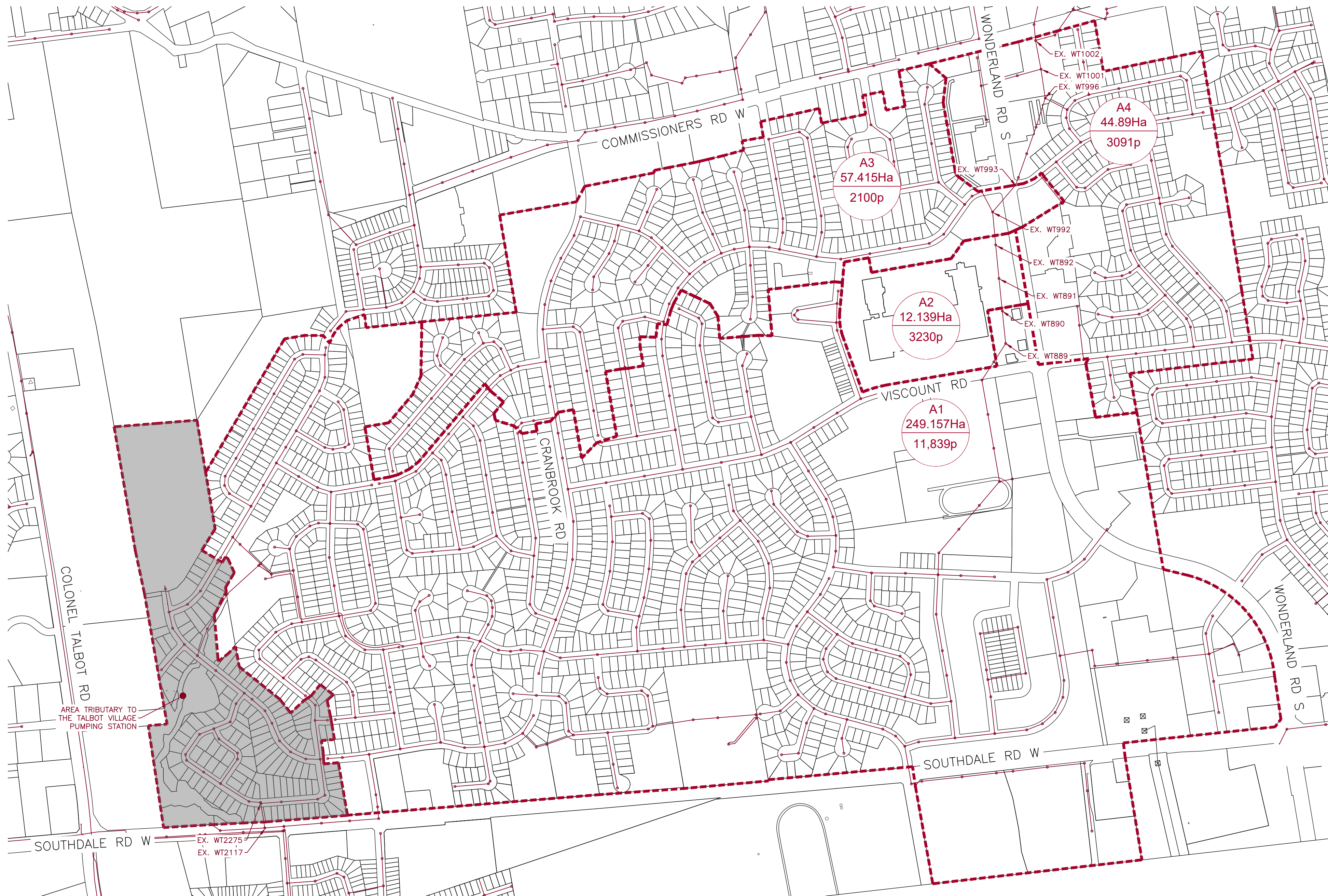
FLOW $Q = PqM/86.4 + IA$
 where P = Design population in thousands
 q = Average daily per capita town Incap.d
 M = Ham on Factor = $1 + 14(4+P)^{0.5}$
 I = Unit of peak extraneous flow in l/ha.s
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DATE: June 27, 2001
 DESIGNED BY: [Name]
 CHECKED BY: [Name]
 SHEET 1 of 1

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 q = 295 l/cap.d (Post 96)
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						NET OR GROSS	(A) TOTAL	PER POP	(P) TOTAL	INFILT	SEWAGE	TOTAL	SIZE	SLOPE	n	VEL	CAP.	LOSSES	Fall in Sewer (m)	LENGTH	INVERT ELEV			
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A1-B	Commissioners (Post 96)				WT1002	G	75.19	78.57	32.9	3529	3715	7.5	44.8	55.6	675	0.15	0.013	0.91	324	0.000	0.107	71.0	265.027	264.920
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	Essment				WT1002	23	363.87	0	14189	0	0	0	0	687.9	0.60	0.013	1.94	858	0.096	0.272	45.5	264.460	264.188	
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	Essment				WT1002	21	363.87	0	14189	0	0	0	0	687.9	0.60	0.013	1.94	858	0.000	0.480	80.0	262.863	262.389	
	Essment				WT1002	20	363.87	0	14189	0	0	0	0	687.9	0.60	0.013	1.94	858	0.173	0.437	72.8	261.794	261.357	
A2	Old Wonderland				WT1002	19	403.21	15.0	500	14689	3.9	6.8	237.7	750	1.00	0.013	2.51	1107	0.000	0.600	80.0	261.300	260.500	
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	Old Wonderland				WT1002	13	403.21	0	14689	0	0	0	0	700.6	0.70	0.013	3.50	3500	0.000	3.500	100.0	257.350	256.850	
	Old Wonderland				WT1002	12	403.21	0	14689	0	0</													



RESIDENTIAL POPULATIONS DENSITIES

AREA / ZONING BASIS
 LOW DENSITY (SINGLE FAMILY) - 30 UNITS PER HECTARE @ 3 PEOPLE / UNIT
 MEDIUM DENSITY (MULTI-FAMILY) - 75 UNITS PER HECTARE @ 2.4 PEOPLE / UNIT
 HIGH DENSITY - 150 TO 300 UNITS PER HECTARE @ 1.8 PEOPLE / UNIT
 LOT BASIS
 SINGLE FAMILY - 3 PEOPLE PER UNIT
 SEMI DETACHED - 6 PEOPLE PER UNIT

SANITARY SEWER DESIGN SHEET
CITY OF LONDON
 Westmount Commons

$$Q(\text{peak flow l/s}) = \left(\frac{\text{population} \times \text{per capita flow} \times \text{peaking factor} \times \text{uncertainty}}{24 \times 60 \times 60} \right) + \text{infiltration}$$

Per capita flow = 230 litres/capita/day
 Peaking Factor = Harmon Formula $M = 1 + \left(\frac{14}{4 + P^{0.5}} \right)$
 Uncertain Development Factor = 1.0 or 1.1 (situation dependent)
 Infiltration Allowance = 8640 litres/hectare/day (0.100L/ha/s)

SANITARY AREA: 363.60 ha
 DESIGNED BY: RQ
 CHECKED BY: JS

DATE: October 28, 2022
 #VALUE!

AREA ID	LOCATION	AREA			POPULATION			SEWAGE FLOW			SEWER DESIGN				PROFILE											
		STREET	FROM	TO	NET OR GROSS	Δ AREA Ha.	TOTAL AREA Ha.	PER Ha.	PER LOT	NO. OF LOTS	Δ POP.	TOTAL POP.	INFILTRATION (l/s)	PEAKING FACTOR (M)	SEWAGE (l/s)	TOTAL (l/s)	"n"	SIZE (mm)	DESIGN SLOPE %	CAPACITY (l/s)	VELOCITY (m/s)	LENGTH (m/s)	DROP IN D.S. MH (m)	FALL IN SEWER (m)	HEAD LOSS (m)	INVERT U.S. m
A1	Wonderland Road South	WT889	WT890	G	249.157	249.157	-	-	11839	11839	24.916	2.882	90.814	124.811	0.013	600	0.20	274.589	0.971	80.1		0.160			266.564	266.404
A2	Proposed Site Development	WT890	WT891	G	12.139	261.296	-	3230	15069	15069	26.130	2.776	111.366	148.633	0.013	600	0.12	212.696	0.752	79.9		0.096			266.398	266.304
-	Proposed Site Development	WT891	WT892	G	0.000	261.296	-	0	15069	15069	26.130	2.776	111.366	148.633	0.013	600	0.08	173.665	0.614	82.1		0.066			266.285	266.221
-	Proposed Site Development	WT892	WT992	G	0.000	261.296	-	0	15069	15069	26.130	2.776	111.366	148.633	0.013	600	0.12	212.696	0.752	80.7		0.097			266.203	266.081
A3	Wonderland Road South	WT992	WT993	G	57.415	318.711	-	2100	17169	17169	31.871	2.719	124.278	168.577	0.013	600	0.26	313.080	1.107	86.3		0.224			266.075	265.856
A4	Wonderland Road South	WT1001	WT1002	G	44.890	363.601	-	3091	20260	20260	36.360	2.647	142.752	193.387	0.013	675	0.15	325.563	0.910	71.0		0.107			265.030	264.900

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EXISTING SERVICES	DRAWING #, SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION	DETAILS	No.	REVISIONS	DATE	CONSULTANT
					DESIGN BY RQ DRAWN BY RQ CHECKED BY JS F.B.K. ***	1	SANITARY CAPACITY REVIEW	NOV. 2/22	BEVENG

CONSULTANT OR DIVISION
 London Office
 41 Adelaide St. N., Unit 71
 (519) 672-8310
development engineering
 (London) Limited
 CONSULTING CIVIL ENGINEERS
 Paris Office
 31 Mechanic St., Unit 301
 (519) 442-1441



SCALE - 1:6000
 60 0 120m

PROJECT No. **DEL22-012**
 SHEET No. **FIG.1**
 PLAN FILE No.
WESTMOUNT SHOPPING CENTRE RE-DEVELOPMENT
 785 WONDERLAND ROAD SOUTH
SANITARY AREA PLAN AND DESIGN SHEET



● EXISTING SANITARY MAINTENANCE HOLE
 — EXISTING SANITARY SEWER
 - - - DRAINAGE AREA BOUNDARY
 REFERENCE FIG.1 FOR SANITARY AREA PLAN AND DESIGN SHEET
 DRAINAGE AREA DESIGNATION
 A1
 DRAINAGE AREA → 0.50Ha
 24p ← TOTAL POPULATION

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EXISTING SERVICES	DRAWING #, SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION	DETAILS	No.	REVISIONS	DATE	CONSULTANT
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SCALE	TITLE	PROJECT No.
SCALE - 1:6000 60 0 120m	WESTMOUNT SHOPPING CENTRE RE-DEVELOPMENT 785 WONDERLAND ROAD SOUTH	DEL22-012
	SANITARY AREA POPULATION SUMMARY	FIG.2
		PLAN FILE No.

Fig. 3 - Sanitary Population Calculations

Sanitary Area Plan Number	Area #	Single Family Area (ha)	# of Single Family Lots	Single Family Pop.	Medium Density Area (ha)	# of MF Family Units	Medium Density Pop	High Density Area (ha)	# of HD Family Units	High Density Pop	Commercial / Institutional (ha)	Commercial / Institutional Pop	Elementary School Area (ha)	Elementary School Equivalent Pop	Secondary School Area (ha)	Secondary School Equivalent Pop	Church Area (ha)	Church Pop	Green Space (ha)	Total Area Pop.	Total Area (Ha)			
A1	A0																							
	A1	8.725	110	330																3.967	330	3.967		
	A2	0.541	9	27																	27	0.541		
	A2A																			0.083		0.083		
	A3	0.752	6	18																	18	0.752		
	A4																			3.601		3.601		
	A5	17.646	203	609																	609	17.646		
	A6	7.309	50	150																	150	7.309		
	A7	1.138	20	60																	60	1.138		
	A8	16.504	161	483																	483	16.504		
	A9					3.067	54	130													130	3.067		
	A10																			3.492		3.492		
	A11	18.726	167	501																	501	18.726		
	A11A											0.236	24								24	0.236		
	A12	24.990	252	756																	756	24.990		
	A13					0.989	16	39													39	0.989		
	A14					2.600		450													450	2.600		
	A15	8.789	81	243																	243	8.789		
	A16	5.822	52	156																	156	5.822		
	A17					2.643	22	53													53	2.643		
	A18	2.038	17	51																	51	2.038		
	A19																			1.767		1.767		
	A20							50												6.712	50	6.712		
	A21								3.314		217										217	3.314		
	A22											5.008	653								653	5.008		
	A23								6.578		436										436	6.578		
	A24					0.575	19	46													46	0.575		
	A25											0.107	11								11	0.107		
	A26	20.448	194	582																	582	20.448		
	A27								1.667	142	227										227	1.667		
	A28											0.237	24								24	0.237		
	A29					0.701	29.000	70													70	0.701		
	A30					3.945	192	461													461	3.945		
	A31											0.852	86								86	0.852		
	A32											7.710	771								771	7.710		
	A33																			3.863		3.863		
	A34								7.345	636	1018										1018	7.345		
	A35					11.196	295	708													708	11.196		
	A36	2.473	32	96																	96	2.473		
	A37					9.127	205	492													492	9.127		
	A37A																			3.787		3.787		
	A38																			1.833		1.833		
	A39													3.886	235						235	3.886		
	A40													1.636	235						235	1.636		
A41															6.322	587				587	6.322			
A42											1.563	157								157	1.563			
A43								1.336	168	269										269	1.336			
A44											1.511	328								328	1.511			
Existing Total																				11839	249.157			
A2	A45										12.139	3230								Proposed =	3230	12.139		
																						Existing =	1002	12.139
A3	A46	5.659	61	183																	183	5.659		
	A47																			0.209		0.209		
	A48				4.545	134	322														322	4.545		
	A49	16.838	136	408																	408	16.838		
	A50																			0.679		0.679		
	A51										0.229	23									23	0.229		
	A52	24.723	212	636																	636	24.723		
	A53				1.252	88	212														212	1.252		
	A54				0.892	32	77														77	0.892		
	A55																	2.389	239		239	2.389		
Existing Total																				2100	57.415			
A4	A56							5.611	594	950											950	5.611		
	A57												2.262	235							235	2.262		
	A58																		2.130		2.130			
	A59										0.088	9									9	0.088		
	A60	26.277	268.000	804																	804	26.277		
	A61							2.129	228	365											365	2.129		
	A62				3.313	192	461														461	3.313		
	A63											1.149	115								115	1.149		
A64				1.931	63	152														152	1.931			
Existing Totals																				18,032	351.46			
Proposed Totals																				20,260	351.46			

Assumptions

Maximum Residential Density (Low Density):	30	units/ha ¹
Maximum Residential PPU (Low Density):	3.0	persons/unit ¹
Maximum Residential Density (Medium Density):	75	units/ha ²
Maximum Residential PPU (Medium Density):	2.4	persons/unit ¹
Maximum Residential Density (High Density):	150	units/ha ²
Maximum Residential PPU (High Density):	1.6	persons/unit ¹
Commercial/Institutional (also assumed for Heritage):	100	person/ha ⁴
Church	100	person/ha ⁴
Elementary School Design Pop:	600	person
Secondary School Pop:	1500	person
Residential Dry Weather Design Flow:	230	L/cap/day ¹
School Consumption:	30	L/cap/8 hours
School Equivalent Pop. =	$\frac{Design\ Pop. \times 30L/cap/8\ hours}{230\ L/cap/day} \times 3$	
Uncertain Development Factor ¹ :	0.1	
Peaking Factor (residential Harmon) ¹ : M=1+(14/(4+P ^{0.5}))		
Infiltration Allowance:	0.1	L/s/ha ¹

References:
 (1) Taken from City of London Design Specifications & Requirements Manual - Section 3, Last Updated March, 2021

Project #: DEL22-012
 Project Name Westmount Shopping Centre Re-Development
 Date: November 2, 2022
 By: RQ



Figure 4 - Site Sanitary Population Calculations

	Building Area GFA (m ²)	Site Area (Ha)		Equivalent Pop.
Existing Conditions				
Existing Shopping Centre	42,367	11.562		922
Cineplex Theater	3,728		913 Seats	80
Totals	46,095		11.562	
Kelseys	505	1.128	200 Seats	109
Tehini's	493		100 Seats	55
Future			100 Seats	55
Church's Texas Chicken			552	200 Seats
Totals	1,550		1.128	
Proposed Development				
Office Space	40,000	11.562		1403
Shopping Centre	17,000			370
High Density	87,748		874 Units	1399
Medium Density	3,888		24 Units	58
Totals	148,636		11.562	
Proposed Development Net Increase				2228

OBC Table 8.2.1.3.B.

12. a) Restaurant (not 24 hour):	125 L/seat/day
15. Office Building, a)	75 L/9.3m ² /day
20. Shopping Centre:	5 L/m ² /day
24. Theatres, a):	20.0 L/seat/day

Maximum Residential PPU (Medium Density):	2.4 persons/unit ¹
Maximum Residential PPU (High Density):	1.6 persons/unit ¹
Residential Dry Weather Design Flow:	230 L/cap/day ¹
Uncertain Development Factor ¹ :	0.1
Peaking Factor (residential Harmon) ¹ : M=1+(14/(4+P ^{0.5}))	
Infiltration Allowance:	0.1 L/s/ha ¹

References:

(1) Taken from City of London Design Specifications & Requirements Manual - Section 3, Last Updated March, 2021

