LICENSED PROFESSIONAL ENGINEER
M. NINKOVIC
April, 2013
PROVINCE OF ONTARIO

CITY OF BRAMPTON

PUBLIC WORKS DEPARTMENT

STORM DESIGN SHEET

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F:\3800\3800-Design Sheets\STM\[3800-STM.xls]STM 10Yr

STREET	UPSTREAM MH	UPSTREAM INV	DOWNSTREAM MH	DOWNSTREAM INV	NO. OF HECTARES IN AREA	NO. OF HECTARES CONTRI.	NO. OF HECTARES TOTAL	AREA x STORM CO-EFF. 0.25	0.50	0.75	0.90	TOTAL A x C	TIME IN AREA	TIME TOT	$I10_{YR}$	Total Q=2.78 x CIA / 1000 (m^3/s)	PIPE Length (m)	SIZE NOM (mm)	SIZE ACT (mm)	GRADE	TYPE OF PIPE	CAPACITY (m^3/s)	VELOCITY (m/s)
From Dolbyhill Drive												36.855		20.99									
From Zelda Road												1.173		12.72				BOX					
Dolbyhill Drive	1		1X		0.76		0.76		0.76			38.407	0.75	20.99	72.83	7.776	122.0	3000x1800	3000x1800	0.25	CONC.	14.286	2.71
												38.407		**21.74**									
Etobicoke Creek Drainage Catchment - SWM Pond EC-4																							
Zelda Road	100		99		0.11		0.11		0.11			0.055	0.26	10.00	121.93	0.019	26.0	300	305	1.50	UR-PVC	0.124	1.69
	99		98		0.41		0.41			0.41		0.363	1.16	10.26	119.81	0.121	89.5	450	457	0.50	UR-PVC	0.210	1.28
	98		97		0.00		0.00					0.363	0.17	11.42	111.18	0.112	14.5	525	533	0.50	UR-PVC	0.317	1.42
	97		96		0.34		0.34			0.34		0.618	0.61	11.59	110.05	0.189	70.5	825	838	0.50	CONC.	1.059	1.92
	96		95		0.12		0.12			0.12		0.708	0.13	12.20	106.18	0.209	14.5	825	838	0.50	CONC.	1.059	1.92
	95		94		0.29		0.29			0.29		0.925	0.30	12.33	105.42	0.271	35.0	825	838	0.50	CONC.	1.059	1.92
												0.925		**12.63**									
Zelda Road	102		94		0.13		0.13		0.13			0.065	0.23	10.00	121.93	0.022	33.0	300	305	3.00	UR-PVC	0.175	2.39
												0.065		**10.23**									
From Zelda Road (South)												0.925		12.63									
From Zelda Road (North)												0.065		10.23									
Zamek Street	94		93		0.04		0.04			0.04		1.020	0.20	12.63	103.65	0.294	23.5	825	838	0.50	CONC.	1.059	1.92
(COMMERCIAL)	93		92 (STC)		0.44		0.44			0.16	0.28	1.392	0.41	12.84	120.74	0.467	47.0	825	838	0.50	CONC.	1.059	1.92
	92 (STC)		91		0.04		0.04			0.04		1.422	0.06	13.25	118.16	0.467	15.0	825	838	2.50	CONC.	2.368	4.29
												1.422		**13.30**									
Zamek Street	101		91		0.11		0.11			0.11		0.083	0.34	10.00	121.93	0.028	25.0	300	305	0.80	UR-PVC	0.090	1.24
												0.083		**10.34**									
From Zamek Street												1.422		13.30									
From Zamek Street												0.083		10.34									
Villadowns Trail	91		HW		0.00		0.00					1.505	0.71	13.30	99.99	0.418	82.0	825	838	0.50	CONC.	1.059	1.92
												1.505		**14.02**									

$I10_{YR}=35.1(T)^{-0.695}$, T in hours

CALC. BY: S.P.
CHECKED BY: P.S.