



ROOF PONDING		
AREA DRAIN #	100 YEAR PONDING DEPTH (mm)	FLOW PER DRAIN (L/sec)
R-A1	131	0.89
R-A2	129	0.88
R-A3	126	0.87
R-A4	121	0.86
R-A5	128	0.88
R-A6	138	0.91
R-A7	149	0.94
R-B1	134	0.90
R-B2	136	0.90
R-B3	138	0.91
R-B4	138	0.91
R-B5	132	0.89
R-B6	126	0.87
R-B7	100	0.79

STRUCTURE TABLE										
STRUCTURE NUMBER	TYPE	LID ELEV (m)	INVERT IN (m) and DIA (mm)		INVERT OUT (m) and DIA (mm)	SIZE	STRUCTURE			Comment
			US	DIS			REFERENCE	FRAME	COVER	
STMMH 100	STORM	74.36	72.53 NW (250)	72.48 NE (300)	1200 DIA	OPSD 701.010	Ottawa S25	Ottawa S24.1		
STMMH 101	STORM	74.91	72.98 W (250)	72.95 W (250)	1200 DIA	OPSD 701.010	Ottawa S25	Ottawa S24.1		
SANMH 200	SANITARY	74.34	71.47 NW (250)	71.40 NE (250)	1200 DIA	OPSD 701.010	Ottawa S25	Ottawa S24		
SANMH 201	SANITARY	74.83	72.15 E (250)	72.08 S (250)	1200 DIA	OPSD 701.010	Ottawa S25	Ottawa S24		

SEWER TABLE									
STRUCTURE	D/S	TYPE	INVERT ELEV (m)		NOMINAL DIA. (mm)	LENGTH (m)	Type	Class	Comment
			US	DIS					
CISTERN 1	STMMH 101	STORM	73.000	72.980	250	0.8	PVC	SDR35	
STMMH 101	CITY STORM	STORM	72.950	72.870	250	4.2	PVC	SDR35	
CISTERN 2	STMMH 100	STORM	72.630	72.530	250	5.1	PVC	SDR35	50mm Insulation required
TOWER A	SANMH 201	SANITARY	72.300	72.150	250	7.4	PVC	SDR35	
TOWER B	SANMH 200	SANITARY	71.630	71.470	250	8.1	PVC	SDR35	

WATERMAIN TABLE				
STATION	DESCRIPTION	GROUND ELEVATION (m)	PROPOSED (m)	TOP OF WATERMAIN ELEV (m) AS-BUILT (m)
0+000	300x200 TEE	74.80	72.80±	
	300x200 TEE	74.80	72.80±	
	200 VALVE & VALVE BOX	74.80	72.80±	
0+002.4	CROSSING SANITARY SEWER	74.89	72.80	
0+003.3	45° VERTICAL BEND	74.82	72.80	
0+003.8	45° VERTICAL BEND	74.85	72.34	
0+004.8	CROSSING STORM SEWER	74.89	72.34	
0+009.0	200 VALVE AND VALVE BOX	74.95	72.37	
0+009.0	200 VALVE AND VALVE CHAMBER (W3)	74.95	72.37	
0+009.6	CAP - FROM BUILDING	74.97	72.38	

STORM CATCHBASIN STRUCTURE TABLE					
CB#	TOP OF GRATE ELEV.	INVERTS	REFERENCE	FRAME	COVER
CB1	74.76	SE=73.22 (250mm) SW=73.16 (250mm)	OPSD 705.010	S19	S19
CBE1	74.62	NW=73.41 (250mm)	S31	S31	S31
CBE2	75.05	W=73.45 (250mm)	S31	S31	S31

WATERMAIN / SEWER CROSSING TABLE									
LOCATION	FINISHED GRADE (m)	SANITARY SEWER			STORM SEWER			CLEARANCES (mm)	NOTES
		INV ELEV (m)	DIA (mm)	OBV ELEV (m)	INV ELEV (m)	DIA (mm)	OBV ELEV (m)		
1	74.89	72.03	250	72.28			320	100mm OF INSULATION TO BE PROVIDED AS PER CITY STD. W22.	
2	74.80			72.84	300	73.14	200	72.34	(WATER SERVICE BELOW SEWER AS PER CITY STD. W25.2)
3	74.81	72.19	250	72.44	72.80	300	73.10	360	
4	74.40	71.53	250	71.78	72.45	300	72.75	670	

STORM WATER MANAGEMENT SUMMARY TABLE								
CONTROL LOCATION	POST DEVELOPMENT DRAINAGE NUMBER	TOTAL ROOF MAX FLOW (L/sec)	TOTAL ROOF STORAGE VOLUME (m3)	MAX HEAD (m)	TYPE	NUMBER OF DRAINS	MANUFACTURER	MODEL
TOWER A ROOF	PST-1 (R-A1 - R-A6)	5.3 L/sec	1198 m3	0.15	FLOW CONTROLLED ROOF DRAIN	6	WATTS	ACUTROL ADJUSTABLE 1 WEIR PER DRAIN SET @25% POSITION
TOWER B ROOF	PST-3 (R-B1 - R-B6)	5.4 L/sec	1384 m3	0.15	FLOW CONTROLLED ROOF DRAIN	6	WATTS	ACUTROL ADJUSTABLE 1 WEIR PER DRAIN SET @25% POSITION

CAUTION
THE POSITION OF ALL POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

NO	REVISION DESCRIPTION	DATE	BY	APPD	REV	REVISION DESCRIPTION	DATE	BY	APPD
7	REVISED PER CITY COMMENTS	09/12/22	SAB	BMT					
6	REVISED PER CITY COMMENTS	17/11/22	AC	BMT					
5	REVISED PER CITY COMMENTS	15/09/22	AC	BMT					
4	REVISED PER CITY COMMENTS	10/12/21	AC	JD					
3	REVISED PER CITY COMMENTS	27/05/21	AC	BMT					
2	ISSUED FOR REZONING APPLICATION	27/01/20	MZG	BMT					
1	ISSUED FOR REVIEW	12/09/19	SAB	BMT					

DESIGNED BY: B. M. THOMAS
 SCALE: 1:250
 REVIEWED BY: B. M. THOMAS
 LICENSED PROFESSIONAL ENGINEER
 2023-10-31
 PROVINCE OF ONTARIO

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PROJECT: 11061917 CANADA INC RESIDENTIAL DEVELOPMENT 365 FOREST STREET OTTAWA, ONTARIO.
 DRAWING NO: C100
 DATE: JAN 2020
 PROJECT MANAGER: BMT
 TITLE: SITE SERVICING PLAN
 SURVEY: ACV
 DRAWING NO: C100