

Sub-Area	Total Area (m²)	Available Storage Area (m <sup>2</sup> )	Catchbasin/ Roof Drain Elevation (m)	Maximum Ponding Elevation (m)	Y <sub>max</sub> (m)	V <sub>max</sub> (m <sup>3</sup> )	V <sub>rain</sub> (m <sup>3</sup> )	V <sub>acc</sub> (m <sup>3</sup> )	Y <sub>rain</sub> (m)	Elev <sub>rain</sub> (m)	A <sub>rain</sub> (m²)	Q (L/s)	Drawdown Time (min)	Comments
A1	508	508	100.00	100.15	0.15	25.4	5.8	5.8	0.07	100.07	242	1.90	50	Controlled roof area
A2	596	-	-	_	_	22.2	1.4	1.4	_	-	_	9.59	2	Area to swale
A3	1142	-	-	-	_	25.0	4.0	4.0	-	-	_	16.25	4	Areas to Tank
NC1	700	-	-	-	_	-	_	_	-	-	_	0.00	-	Unattenuated Areas
otal	2946	508				72.6	11.1	11.1				27.74		

DEFINITIONS OF ABBREVIATIONS USED IN CALCULATION TABLE: NC = Area is not controlled (unattenuated)

Available Area = Area of water accumulated in sub-area at Max. Elev.

Catchbasin Elev. = Elevation of catchbasin inlet (top of grate).

- Max. Elev. = Maximum elevation of water that may be accumulated within sub-area.  $Y_{max}$  = Maximum depth of water that may be accumulated within the sub-area.
  - $V_{max}$  = Maximum volume of water (capacity) that may be accumulated within the sub-area.

V<sub>rain</sub> = Volume of water generated by rainfall.

Sub-Area	Total Area (m²)	Available Storage Area (m <sup>2</sup> )	Catchbasin/ Roof Drain Elevation (m)	Maximum Ponding Elevation (m)	Y <sub>max</sub> (m)	V <sub>max</sub> (m <sup>3</sup> )	V <sub>rain</sub> (m <sup>3</sup> )	V <sub>acc</sub> (m <sup>3</sup> )	Y <sub>rain</sub> (m)	Elev <sub>rain</sub> (m)	A <sub>rain</sub> (m²)	Q (L/s)	Drawdown Time (min)	Comments
A1	508	508	100.00	100.15	0.15	25.4	20.1	20.1	0.13	100.13	452	1.90	177	Controlled roof area
A2	596	_	-	-	_	22.2	11.6	11.6	_	-	_	9.59	20	Area to swale
A3	1142	-	-	-	-	25.0	24.1	24.1	-	-	-	16.25	25	Areas to Tank
NC1	700	-	-	-	-	-	-	-	-	-	-	0.00	-	Unattenuated Areas
otal	2946	508				72.6	55.9	55.9				27.74		

DEFINITIONS OF ABBREVIATIONS USED IN CALCULATION TABLE:

- NC = Area is not controlled (unattenuated)
- Available Area = Area of water accumulated in sub-area at Max. Elev.
- Catchbasin Elev. = Elevation of catchbasin inlet (top of grate).
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  - $Y_{max}$  = Maximum depth of water that may be accumulated within the sub-area.

  - $V_{\text{max}}$  = Maximum volume of water (capacity) that may be accumulated within the sub-area.
  - $V_{rain}$  = Volume of water generated by rainfall.

V<sub>acc</sub> = Total volume of water accumulated within the sub-area in the event of a specific rainfall.

Y<sub>rain</sub> = Depth of water generated by rainfall. Elev<sub>rain</sub> = Elevation of water generated by rainfall.

A<sub>rain</sub> = Area of water generated by rainfall.

Q = Release flow rate.

Drawdown Time = Time required for the total volume of water accumulated within sub-area to subside.

V<sub>acc</sub> = Total volume of water accumulated within the sub-area in the event of a specific rainfall.

 $Y_{rain}$  = Depth of water generated by rainfall. Elev<sub>rain</sub> = Elevation of water generated by rainfall.

A<sub>rain</sub> = Area of water generated by rainfall.

Q = Release flow rate.

Drawdown Time = Time required for the total volume of water accumulated within sub-area to subside.

ANDREW MCCREIGHT MANAGER (A), DEVELOPMENT REVIEW CENTRA PLANNING, REAL ESTATE & ECONOMIC DEVELOP DEPARTMENT, CITY OF OTTAWA

APPROVED By Andrew McCreight at 1:17 pm, Mar 0.

	STORM WATER MANAGEMEN	TLEGEND	EXISTING	WATERMAIN	PROPOSED
	STORM DRAINAGE BOUNDARY		— — SAN— — — —	SANITARY SEWER	
	AREA ID		— — D — — — — — — — — — — — — — — — — —	DRAIN	
		A1	— — T — — — — — — — — — — — — — — — — —	UNDERGROUND TELEPHON	
	AREA IN m2	588 m <sup>2</sup> 0.90	——————————————————————————————————————	FENCE UNDERGROUND ELECTRICI	TY (APPROX. LOC.)
				OVERHEAD WIRES	
				RIGHT-OF-WAY LIMITS EASEMENT	
	RUNOFF COEFFICIENT			TOP OF SLOPE DITCH CENTER	
				BOTTOM OF SLOPE WOOD AREA	
E BIN				GRADE CROSSING FLAGPOLE	
				CATCHBASIN	•
				MANHOLE/CATCHBASIN MANHOLE	
			i de la companya de l	FIRE HYDRANT VALVE	© ⊘
				REDUCER TEE	<u>+</u>
				VALVE CHAMBER	$\overline{\square}$
			) () () () () () () () () () () () () ()	PRIVATE UTILITIES (WATER) EXTERIOR WATER FAUCET	MAIN) (S)
				SLUICEWAY NATURAL GAS VALVE SIGN	
			Â	STOP SIGN TRAFFIC LIGHT	
			E e T e	ELECTRICITY POLE TELEPHONE POLE	
			E,T ●-• E,T ●•	ELECTTELSTREET LIGHT ELECTTELTRANSFORMER	
			- Č- O E	PRIVATE STREET LIGHT ELECTICITY MANHOLE	
			OT	TELEPHONE MANHOLE SURVEY STATION	
			× ,5°	ELEVATION	
				BOREHOLE (LOC. APPROX.)	
			₩W17-1	OVERLAND FLOW	
				WORK LIMIT	
Adjustable A	ccutrol Weir Adjustable Flow Control				
Adjustable	for Roof Drains				
ABLE ACCUTROL (for Large Sump Roof Dr					
stable Accutrol Weir is designed with a single par ad to less than 5 gpm per inch, up to 6" of head.	an 2", Watts Drainage offers the Adjustable Accutrol. rabolic opening that can be covered to restrict flow above To adjust the flow rate for depths over 2" of head, set the slo	ot			
justable upper cone according to the flow rate rec ow rates are directly proportional to the amount of	uired. Refer to Table 1 below.				
LE:			1:200		
pple, if the adjustable upper cone is set to cover 1, to 2-1/2 gpm per inch of head.	/2 of the weir opening, flow rates above 2"of head will be		0 2	2 4 8	12m
e, at 3"of head, the flow rate through the Accutrol per inch of head) x 2 inches of head ] + 2-1/2 g	Weir that has 1/2 the slot exposed will be: om (for the third inch of head) = 12-1/2 gpm.				
2-1/4"(57)	Adjustable / Upper Cone				
			<b> </b>	<u> </u>	
	Fixed		<b> </b>		<b>_</b>
Sump	Weir		4 23/01/20	RE-ISSUED FOR SITE PLA	AN CONTROL T.K
			3 22/11/07	RE-ISSUED FOR SITE PLA	
			2 22/10/14 1 22/04/07	RE-ISSUED FOR SITE PLA ISSUED FOR SITE PLAN C	
	1/2 Weir Opening Exposed Shown Above		No. Date	Description	Ву
Adjustable Accutrol Flow Rate Settings			STAMPS:		
sed 5 10 15 20 25 30			STAMPS: PROFESSIO Dumuoon S J. C. ADA 1005194	DNAL DRAC	OFESSIONALE
5 10 13.75 17.5 21.25 25   5 10 13.75 17.5 21.25 25			aymeson !	Adams III	G. KENNEDY
5 10 11.25 12.5 13.75 15   1 5 5 5 5 5 5			( $\stackrel{\circ}{\square}$ J. C. ADA 1005194		G. KENNEDY (100173201
			20 January	2023	nuary 20, 2023
n	Contractor	_	BOUINCE OF	ONTARIO SOUN	NCE OF ONTAILO
	Representative	_			
ecifications in U.S. customary units and metric are approximate and are provid ments, please contact Watts Technical Service. Watts reserves the right to cha cifications, or materials without prior notice and without incurring any obligation.	nge or modify product design,	Ø	DESIGNED E	ВҮ	APPROVED BY
Watts products previously or subsequently sold. 0) 338-2581 • Fax: (828) 248-3929 • Watts.com (905) 332-4090 • Fax: (905) 332-7068 • Watts.ca	A Watts Water Technologies Compa	ny			
a: Tel: (52) 81-1001-8600 • Fax: (52) 81-8000-7091 • Watts.com ACCUTROLADJ-CAN 1615	© 2016 V	Vatts			<b>_</b>
			CLIENT:		
			$\sim$	$\mathcal{F}$	
			$\mathcal{I}$	he Házeli	ton
				<i>he Hazeli</i> Westboro	
			PROJECT NAME:		
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AL				COSEVELT A	
PMENT					
	THE GEODETIC COORDINATES OF EVERY IT		SHEET TITLE:		
	THIS DOCUMENT ARE IN <b>NAD83 - ORIGINAL</b> AND HAVE NO LEGAL VALUE. THE SITE LAYO USING THE OFFICIAL BENCHMARKS OF AN A	OUT MUST BE COMPLETED	1		1
2 2022	USING THE OFFICIAL BENCHMARKS OF AN A SURVEYOR IN THE NAD83 - ORIGINAL / MTM		5	STORM WATE	R
2, 2023	THE UNDERGROUND FEATURES AND INFOR			NAGEMENT PI	
	THE DRAWINGS WERE OBTAINED FROM THE COMPANIES AND/OR FROM THE CITY EACH		1		
	ALL INFORMATION UNDER THE LEGEND 'EX ONLY. COMPLETE OR EXACT LOCATION ANI		DISCIPLINE:		
	UNDERGROUND SERVICES ARE NOT GUAR	NTEED.		CIVIL	
	CERTAIN UNDERGROUND FEATURES ON PR SHOWN ON THE CURRENT DRAWING.	RIVATE PROPERTY ARE NOT	drafter: S.C. POGGIOLI	SCALE:	1
	ANYONE WHO PROCEEDS WITH EXCAVATIO EXACT LOCATION OF ALL UNDERGROUND F		designer: J. ADAMS	DATE: 2022/04/07	67
	EXACT LOCATION OF ALL UNDERGROUND F EXPLORATORY EXCAVATIONS, AND SHALL / RESPONSIBILITY IF THERE IS ANY DAMAGE	ASSUME FULL	APPROVER:	APPROVER:	ر 22-0067
	WORK.				
	THE CONTRACTOR WILL HAVE THE RESPON OBLIGATION TO VALIDATE, BY EXPLORATOR OF THE PUBLIC UTILITIES UNDERGROUND S	RY EXCAVATION, THE SIZE	PROJECT No: A001046	DRAWING No:	
	ENGINEER OF ANY CONFLICT WITH THE PRO		SHEET No: 7 Of 12		C007 C007
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