

SUMMERVILLE AVENUE

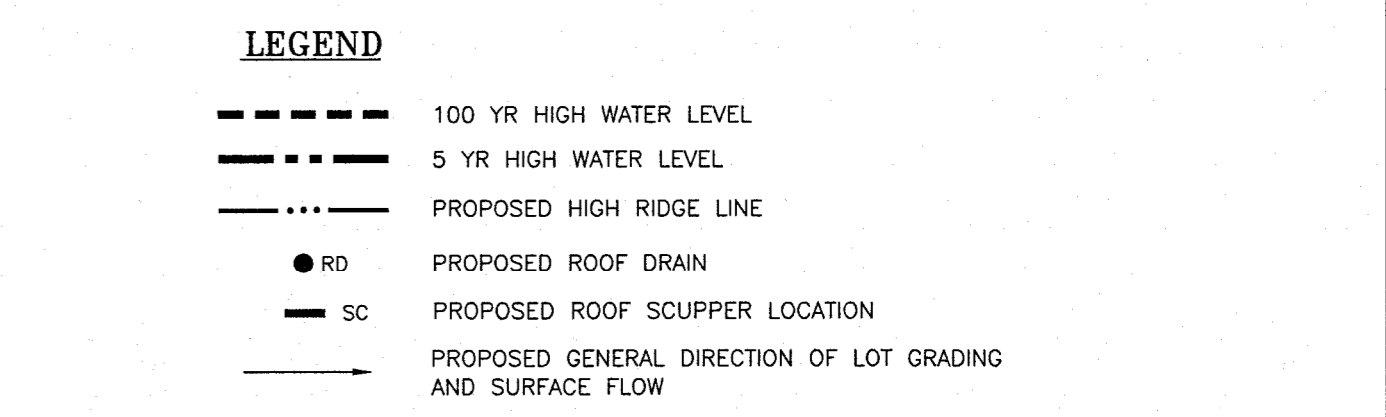
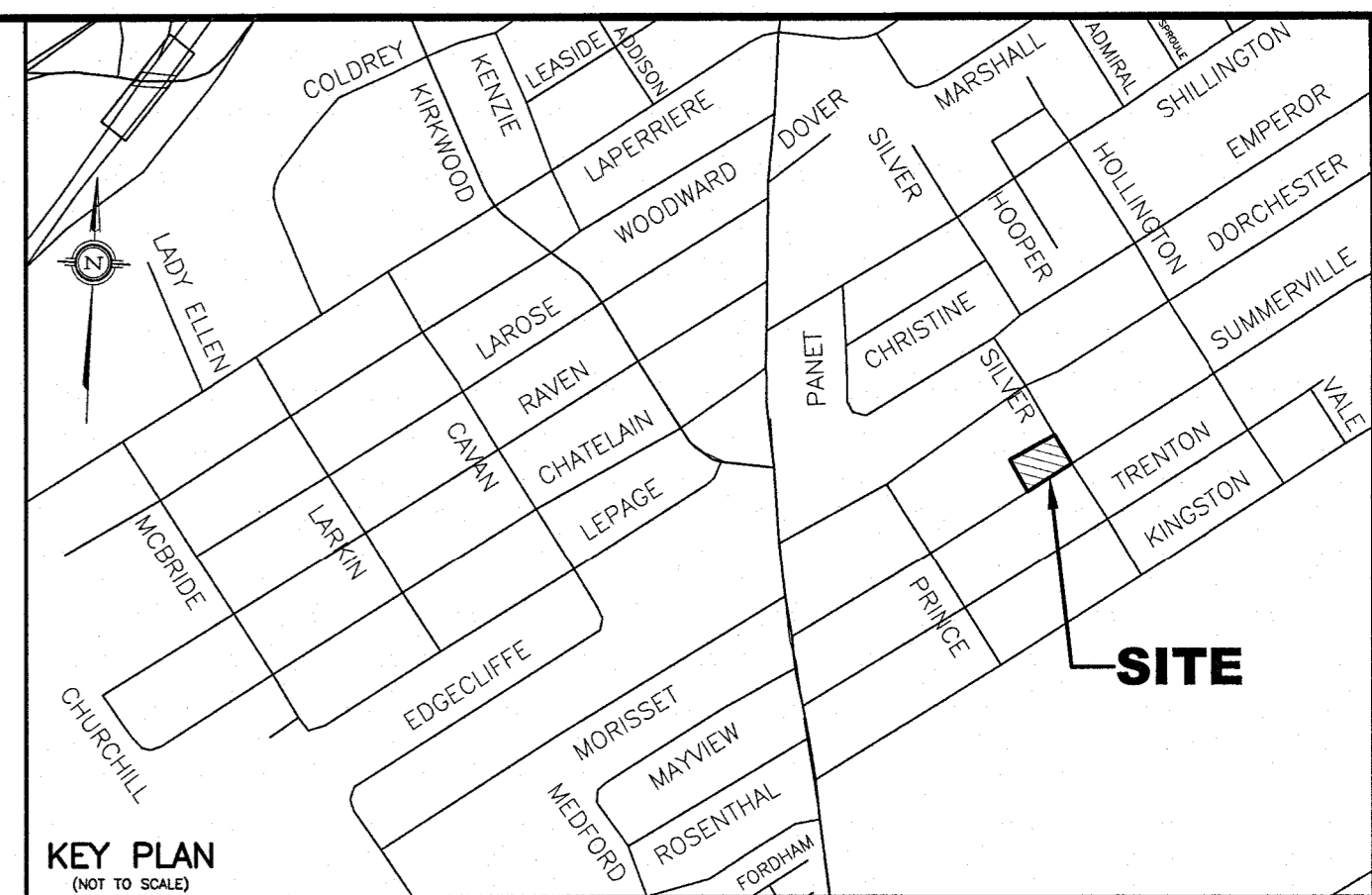
SILVER STREET

NOTES

1. STORMWATER MANAGEMENT NOTES
ROOF DRAIN DETAILS
 MODEL TYPE: WATTS MODEL "ADJUSTABLE ACCUTROL WEIR" (MODEL No. RD-100A-ADJ), (WEIR OPENING EXPOSED IS : 1/4 OPENING AS SPECIFIED) TO PERMIT A RELEASE FLOW RATE OF 15.0 US GAL/MIN. OR 0.95 L/s UNDER A HEAD OF UP TO 150mm.
 NUMBER OF CONTROL DEVICES: 1 CONTROLLED ROOF DRAIN PER DESIGNATED ROOF AREA FOR SWM ATTENUATION.
 FLOW PER ROOF DRAIN: 15.0 U.S. GAL/MIN. OR 0.95 L/s.
 TOTAL FLOW FROM FLAT ROOFTOP OF BUILDING AT MAXIMUM HEAD OF 150mm PER DRAIN AT THE (3) PROPOSED DRAINS = 2.85 L/s
 DEPTH AND VOLUME:

ROOF DRAIN ID & DRAINAGE AREA (ha)	NUMBER OF ROOF DRAINS	WATTS ROOF DRAIN MODEL ID (WEIR OPENING)	CONTROLLED FLOW PER DRAIN (L/s)		APPROXIMATE FLOWING DEPTH ABOVE DRAINS (m)		STORAGE VOLUME REQUIRED (m ³)		MAX. STORAGE AVAILABLE (m ³)
			5 YR	100 YR	5 YR	100 YR	5 YR	100 YR	
RD-1 (0.024 ha)	1	RD-100A-ADJ (1/4 EXPOSED OPENING)	0.87	0.95	0.12	0.15	4.28	10.01	12.09
RD-2 (0.0215 ha)	1	RD-100A-ADJ (1/4 EXPOSED OPENING)	0.87	0.95	0.12	0.15	3.66	8.65	10.98
RD-3 (0.0184 ha)	1	RD-100A-ADJ (1/4 EXPOSED OPENING)	0.87	0.95	0.12	0.15	2.92	6.99	8.88
TOTAL ROOF (0.0639 ha)	3		2.61	2.85	-	-	10.86	25.65	31.95

- SCUPPER LOCATION: AS SHOWN ON THIS DRAWING
 5 YEAR ELEVATION: 120mm ABOVE THE ROOF DRAIN FOR ROOF AREA #1, #2 AND #3
 100 YEAR ELEVATION: 150mm ABOVE THE ROOF DRAIN FOR ROOF AREA #1, #2 AND #3
 - EACH ROOF DRAIN SHALL BE SIZED FOR A RELEASE RATE OF 15.0 U.S. GAL/MIN. OR 0.95 L/s. THE OWNER'S MECHANICAL ENGINEER SHALL SPECIFY THE REQUIRED ROOF DRAIN TYPE AND MODEL No. AND PROVIDE THE NECESSARY INFORMATION TO THE CITY OF OTTAWA FOR THEIR RECORDS TO ENSURE PROPER RELEASE RATE FOR STORMWATER MANAGEMENT COMPLIANCE.
 - ROOF PITCH IS ASSUMED TO HAVE 1.4% (MIN.) SLOPE.
 - ROOF SCUPPERS ARE RECOMMENDED TO BE INSTALLED 0mm ABOVE EDGE OF ROOFTOP ELEVATION FOR EMERGENCY OVERFLOW PURPOSES AT ROOF AREA #1, #2 AND #3 AT PERIMETER OF BUILDING.
 - SEE STORM DRAINAGE REPORT No. R-821-10 DATED JULY 2021 FOR DETAILS ALSO.
 2. PROPOSED ROOF DRAINS AND SCUPPER LOCATIONS SHOWN ON THIS PLAN SHALL BE REVIEWED BY THE OWNER AND OWNER'S BUILDING DESIGNER FOR APPROVAL.
 3. THE OWNER'S BUILDING DESIGNER AND STRUCTURAL ENGINEER SHALL ENSURE THAT THE ADDITIONAL STORMWATER STORAGE VOLUME FROM STORMWATER MANAGEMENT MEASURES ARE ACCOUNTED FOR IN THE STRUCTURAL DESIGN OF AND WATERPROOFING OF ROOF AREA #1, #2 AND #3 AND ANY OF THE SUPPORTING STRUCTURES THAT MAY BE AFFECTED BY THE STORED WATER.
 4. ROOF DRAIN #1, #2 AND #3 INCLUSIVE SHALL OUTLET INTO THE DESIGNATED 150mm PVC STORMWATER PIPE AS SHOWN ON THE PROPOSED GRADING AND SERVICING PLAN (DWG No. 821-10, G-1).
 5. FOR GRADING AND SERVICING DETAILS OF THIS SITE, REFER TO DWG. No. 821-10, G-1.



WATTS Adjustable Accutrol Weir Adjustable Flow Control for Roof Drains

ADJUSTABLE ACCUTROL (for Large Sump Roof Drains only)

For more flexibility in controlling flow with heads deeper than 2", Watts Drainage offers the Adjustable Accutrol. The Adjustable Accutrol Weir is designed with a single parabolic opening that can be covered to restrict flow above 2" of head to less than 5 gpm per inch, up to 6" of head. To adjust the flow rate for depths over 2" of head, set the slot in the adjustable upper cone according to the flow rate required. Refer to Table 1 below.

Note: Flow rates are directly proportional to the amount of weir opening that is exposed.

EXAMPLE:

For example, if the adjustable upper cone is set to cover 1/2 of the weir opening, flow rates above 2" of head will be restricted to 2-1/2 gpm per inch of head.

Therefore, at 3" of head, the flow rate through the Accutrol Weir that has 1/2 the slot exposed will be:
 [5 gpm (per inch of head) x 2 inches of head] = 2-1/2 gpm [for the third inch of head] = 1-2-1/2 gpm.

1/2 Weir Opening Exposed Shown Above

TABLE 1. Adjustable Accutrol Flow Rate Settings

Weir Opening Exposed	1"	2"	3"	4"	5"	6"
1/4	5	10	13.75	17.5	21.25	25
1/2	5	10	15	17.5	20	22.5
3/4	5	10	16.25	18.75	21.25	23.75
Full	5	10	17.5	20	22.5	25

	SCALE	DESIGN	T.L.M.	PROJECT 1082 AND 1066 SILVER STREET PART OF LOT 31 REGISTERED PLAN 294 CITY OF OTTAWA	
	0 1 2 3 5m 1:100 HORIZONTAL VERTICAL	CHECKED	T.L.M.		
	DRAWN BY	P.M.	PROJECT No.	DATE	DRAWING No.
	CHECKED	T.L.M.	821-10	APRIL 2021	SWM-1
	APPROVED	T.L.M.			