

M:\2021\121011\CAD\Design\121011-STM.dwg, STM, Jul 20, 2026, - 11:28am, smathews

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No.	REVISION	DATE	BY
8.	RE-ISSUED FOR SITE PLAN APPROVAL	JULY 20/26	DOB
7.	ISSUED FOR SITE PLAN APPROVAL	JUN 25/26	DOB
6.	REVISED PER CITY COMMENTS	MAR 18/26	DOB
5.	REVISED SITE PLAN SUBMISSION	NOV 14/25	DOB
4.	ISSUED FOR TENDER	MAY 16/22	DOB
3.	REVISED PER CITY COMMENTS	FEB 17/22	DOB
2.	REVISED PER CITY COMMENTS	NOV 5/21	DOB
1.	ISSUED FOR CITY OF OTTAWA REVIEW	JUN 2/21	DOB

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CITY OF OTTAWA 5331 FERNBANK ROAD IRON VALLEY 2	DRAWING NAME STORM DRAINAGE AREA PLAN	PROJECT No. 121011-00	REV # 8
DRAFTING No. 121011-STM		#18539	



NOTES:

*100 YEAR PONDING DEPTH IS GREATER THAN THE STATIC PONDING DEPTH DUE TO CASCAING WATER INTO THE NEXT AREA. THIS HAS BEEN ACCOUNTED FOR IN THE STORMWATER MANAGEMENT REPORT AND CONFORMS TO THE ALLOWABLE RELEASE RATE FROM THE SITE.

LEGEND

- PROPERTY LINE
- PROPOSED STORM MH & SEWER WITH DIRECTION OF FLOW
- PROPOSED CURB INLET CATCHBASIN
- PROPOSED ROAD CATCHBASIN
- PROPOSED CATCHBASIN MANHOLE
- PROPOSED REAR YARD ELBOW
- PROPOSED REAR YARD TEE
- DRAINAGE AREA BOUNDARY
- MAJOR OVERLAND FLOW ROUTE
- DRAINAGE AREA (hectares)
- AREA IDENTIFICATION
- MANHOLE TO MANHOLE
- RUN-OFF COEFFICIENT
- 1:100yr PONDING AREA AND ELEVATION
- 1:5yr PONDING AREA AND ELEVATION
- PROPOSED TREES

NORTH

KEY PLAN
N.T.S.

PONDING ¹			
CB No.	RIM ELEV. (m)	EVENT	WATER LEVEL ELEV. (DEPTH) (m)
RYE18	97.00	2yr	(0.00) 95.54
		5yr	(0.00) 95.58
		100yr	(0.12) 97.12
		Static	(0.11) 97.11
		100yr + 20%	(0.14) 97.14
RYE19	97.48	2yr	(0.00) 95.32
		5yr	(0.00) 95.58
		100yr	(0.07) 97.55
		Static	(0.07) 97.55
		100yr + 20%	(0.09) 97.43
RYE20	97.58	2yr	(0.00) 95.94
		5yr	(0.00) 96.83
		100yr	(0.00) 97.16
		Static	(0.11) 97.69
		100yr + 20%	(0.09) 97.26
RYT01	97.35	2yr	(0.06) 97.29
		5yr	(0.06) 97.29
		100yr	(0.26) 97.61
		Static	(0.32) 97.67
		100yr + 20%	(0.29) 97.64
RYT02	96.80	2yr	(0.00) 95.35
		5yr	(0.00) 96.23
		100yr	(0.20) 97.00
		Static	(0.20) 97.00
		100yr + 20%	(0.29) 97.10
RYT03	97.44	2yr	(0.00) 95.62
		5yr	(0.00) 96.15
		100yr	(0.09) 97.40
		Static	(0.21) 97.65
		100yr + 20%	(0.01) 97.45
RYT04	97.26	2yr	(0.00) 95.62
		5yr	(0.00) 95.80
		100yr	(0.13) 97.50
		Static	(0.24) 97.40
		100yr + 20%	(0.18) 97.44
RYT05	97.23	2yr	(0.00) 95.62
		5yr	(0.00) 95.15
		100yr	(0.16) 97.39
		Static	(0.15) 97.38
		100yr + 20%	(0.29) 97.43
RYT06	97.18	2yr	(0.00) 95.77
		5yr	(0.00) 96.32
		100yr	(0.17) 97.35
		Static	(0.37) 97.55
		100yr + 20%	(0.26) 97.44
RYT07	97.15	2yr	(0.00) 95.76
		5yr	(0.00) 96.32
		100yr	(0.15) 97.30
		Static	(0.37) 97.55
		100yr + 20%	(0.26) 97.44
RYT08	96.90	2yr	(0.00) 95.84
		5yr	(0.00) 96.84
		100yr	(0.21) 97.11
		Static	(0.25) 97.15
		100yr + 20%	(0.24) 97.14
RYT09	96.85	2yr	(0.00) 95.49
		5yr	(0.00) 96.53
		100yr	(0.23) 97.61
		Static	(0.30) 97.68
		100yr + 20%	(0.26) 97.64
RYT10	97.47	2yr	(0.00) 96.45
		5yr	(0.00) 97.42
		100yr	(0.09) 97.67
		Static	(0.11) 97.69
		100yr + 20%	(0.12) 97.70
RYT11	97.58	2yr	(0.00) 96.86
		5yr	(0.00) 97.56
		100yr	(0.05) 97.71
		Static	(0.11) 97.69
		100yr + 20%	(0.09) 97.75
RYT12	97.07	2yr	(0.00) 95.54
		5yr	(0.00) 95.58
		100yr	(0.12) 97.12
		Static	(0.11) 97.11
		100yr + 20%	(0.14) 97.14

PONDING ¹			
CB No.	RIM ELEV. (m)	EVENT	WATER LEVEL ELEV. (DEPTH) (m)
RYT13	97.17	2yr	(0.00) 95.77
		5yr	(0.00) 96.06
		100yr	(0.13) 97.30
		Static	(0.13) 97.30
		100yr + 20%	(0.14) 97.31
RYT14	97.29	2yr	(0.00) 95.85
		5yr	(0.00) 96.09
		100yr	(0.14) 97.43
		Static	(0.14) 97.43
		100yr + 20%	(0.14) 97.43
RYT15	97.48	2yr	(0.00) 96.04
		5yr	(0.00) 96.28
		100yr	(0.12) 97.60
		Static	(0.11) 97.59
		100yr + 20%	(0.12) 97.60
RYT16	97.64	2yr	(0.00) 96.86
		5yr	(0.00) 97.56
		100yr	(0.02) 97.66
		Static	(0.02) 97.66
		100yr + 20%	(0.03) 97.67
RYT17	97.08	2yr	(0.00) 95.35
		5yr	(0.00) 96.12
		100yr	(0.07) 97.15
		Static	(0.25) 97.33
		100yr + 20%	(0.13) 97.21
RYT18	97.22	2yr	(0.00) 95.27
		5yr	(0.00) 95.58
		100yr	(0.04) 97.26
		Static	(0.14) 97.36
		100yr + 20%	(0.17) 97.39
RYT19	97.25	2yr	(0.00) 95.35
		5yr	(0.00) 95.57
		100yr	(0.02) 97.27
		Static	(0.10) 97.35
		100yr + 20%	(0.19) 97.44
RYT20	97.23	2yr	(0.00) 95.27
		5yr	(0.00) 95.57
		100yr	(0.03) 97.26
		Static	(0.14) 97.37
		100yr + 20%	(0.19) 97.42
RYT21	97.38	2yr	(0.00) 95.27
		5yr	(0.00) 95.58
		100yr	(0.00) 97.16
		Static	(0.14) 97.60
		100yr + 20%	(0.00) 97.20
RYT22	97.46	2yr	(0.00) 95.63
		5yr	(0.00) 96.15
		100yr	(0.00) 97.42
		Static	(0.16) 97.66
		100yr + 20%	(0.20) 97.45
RYT23	97.50	2yr	(0.00) 95.76
		5yr	(0.00) 96.15
		100yr	(0.00) 97.42
		Static	(0.10) 97.70
		100yr + 20%	(0.00) 97.45
RYT24	97.60	2yr	(0.00) 95.49
		5yr	(0.00) 96.53
		100yr	(0.23) 97.61
		Static	(0.30) 97.68
		100yr + 20%	(0.26) 97.64

BASED ON PCSWMM MODEL
(3-HOUR CHICAGO STORM DISTRIBUTION)

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