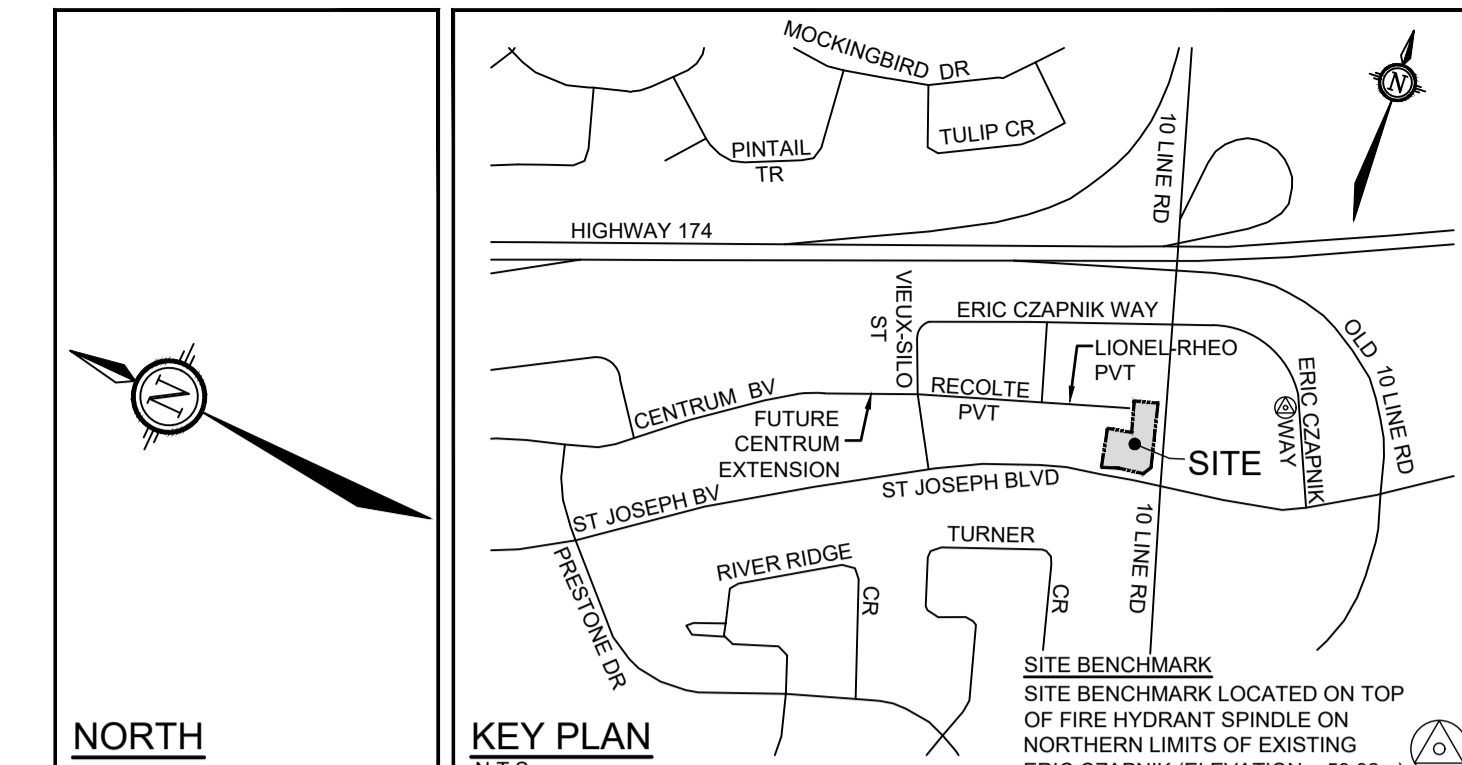


Area ID	Static Ponding Area (m ²)	Drainage Area (ha)	Runoff Coef. (100Year)	Time-of-Conc. (min)	Rainfall Intensity (mm/hr)	Uncontrolled Peak Flow (L/s)	Rooftop Flow Control System	Controlled Peak Flow (L/s)	Flow Depth (mm)	Storage Required (m ³)	Storage Available (m ³)
R.A1	200.3	0.036	0.90	10.00	104.19	9.4	Watts Flow Control 1/2 Open	0.95	0.11	7.34	18.03
R.A2	381.7	0.055	0.90	10.00	104.19	8.8	Watts Flow Control 1/2 Open	0.95	0.11	6.88	16.48
R.A3	342.7	0.054	0.90	10.00	104.19	8.9	Watts Flow Control 1/2 Open	0.95	0.11	6.84	17.14
TOTAL	924.7	0.145								20.66	51.64

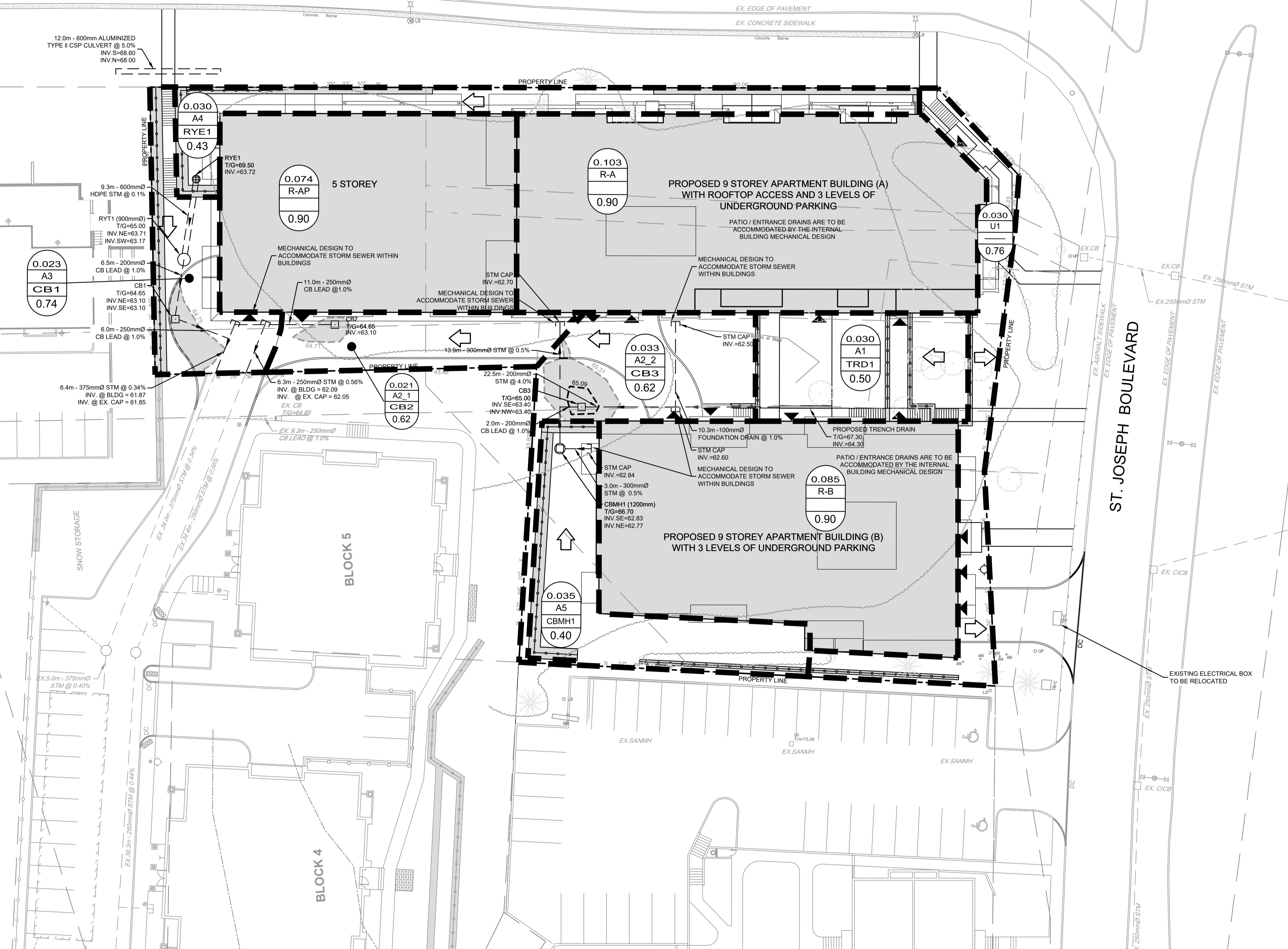
Area ID	Static Ponding Area (m ²)	Drainage Area (ha)	Runoff Coef. (100Year)	Time-of-Conc. (min)	Rainfall Intensity (mm/hr)	Uncontrolled Peak Flow (L/s)	Rooftop Flow Control System	Controlled Peak Flow (L/s)	Flow Depth (mm)	Storage Required (m ³)	Storage Available (m ³)
R.AP1	370	0.037	0.90	10.00	104.19	9.6	Watts Flow Control 1/2 Open	0.95	0.11	7.47	18.50
R.AP2	370	0.037	0.90	10.00	104.19	9.6	Watts Flow Control 1/2 Open	0.95	0.11	7.47	18.50
TOTAL	740	0.074								14.94	37.00

Area ID	Static Ponding Area (m ²)	Drainage Area (ha)	Runoff Coef. (100Year)	Time-of-Conc. (min)	Rainfall Intensity (mm/hr)	Uncontrolled Peak Flow (L/s)	Rooftop Flow Control System	Controlled Peak Flow (L/s)	Flow Depth (mm)	Storage Required (m ³)	Storage Available (m ³)
R.B1	271.3	0.027	0.90	10.00	104.19	7.1	Watts Flow Control 1/2 Open	0.95	0.10	6.07	13.57
R.B2	283.3	0.028	0.90	10.00	104.19	7.4	Watts Flow Control 1/2 Open	0.95	0.10	5.24	14.17
R.B3	285.3	0.028	0.90	10.00	104.19	7.7	Watts Flow Control 1/2 Open	0.95	0.10	5.96	14.78
TOTAL	840	0.083								17.27	42.51

Area ID	Static Ponding Area (m ²)	Drainage Area (ha)	Runoff Coef. (100Year)	Time-of-Conc. (min)	Rainfall Intensity (mm/hr)	Uncontrolled Peak Flow (L/s)	Rooftop Flow Control System	Controlled Peak Flow (L/s)	Flow Depth (mm)	Storage Required (m ³)	Storage Available (m ³)
R.BP1	370	0.037	0.90	10.00	104.19	9.6	Watts Flow Control 1/2 Open	0.95	0.11	7.47	18.50
R.BP2	370	0.037	0.90	10.00	104.19	9.6	Watts Flow Control 1/2 Open	0.95	0.11	7.47	18.50
TOTAL	740	0.074								14.94	37.00



TENTH LINE ROAD



LEGEND

- SITE BOUNDARY
- PROPOSED STORM SEWER AND DIRECTION OF FLOW
- PROPOSED RETAINING WALL
- PROPOSED RETAINING WALL C/W CHAINLINK FENCE
- PROPOSED BUILDING ENTRANCE
- PROPOSED SIAMESE CONNECTION
- STORM DRAINAGE AREA
- EXISTING STORM MANHOLE AND SEWER
- EXISTING SANITARY MANHOLE
- EXISTING VALVE AND VALE BOX
- EXISTING FIRE HYDRANT
- EXISTING CATCHBASIN
- EXISTING TOP OF GRATE
- EXISTING UTILITY POLE C/W GUY WIRES
- EXISTING LIGHT STANDARD
- 0.033 DRAINAGE AREA (HECTARES)
- MANHOLE TO MANHOLE
- 0.62 RUNOFF COEFFICIENT
- DIRECTION OF MAJOR OVERLAND FLOW ROUTE
- 1:100yr PONDING AREA AND ELEVATION
- 1:5yr PONDING AREA AND ELEVATION

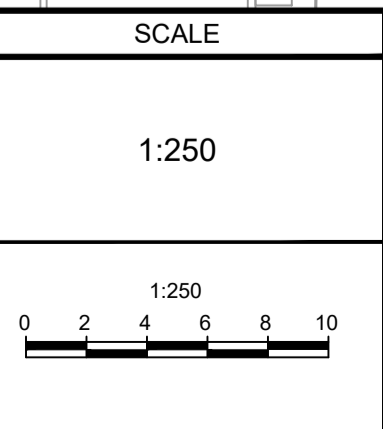
CB No.	RIM ELEV. (m)	EVENT	WATER LEVEL ELEV. (DEPTH) (m)
CB1	64.65	2yr	(0.00) 63.94
		5yr	(0.00) 64.12
		100yr	(0.10) 64.75
		Static	(0.10) 64.75
		100yr + 20%	(0.12) 64.77
CB2	64.65	2yr	(0.00) 63.78
		5yr	(0.00) 63.90
		100yr	(0.06) 64.71
		Static	(0.10) 64.75
		100yr + 20%	(0.12) 64.77
CB3	65.00	2yr	(0.00) 64.61
		5yr	(0.09) 65.09
		100yr	(0.31) 65.31
		Static	(0.30) 65.30
		100yr + 20%	(0.31) 65.31
CBMH1	66.70	2yr	(0.00) 63.89
		5yr	(0.00) 64.23
		100yr	(0.00) 66.10
		Static	(0.30) 67.00
		100yr + 20%	(0.01) 66.71
RYE1	69.50	2yr	(0.00) 63.94
		5yr	(0.00) 64.12
		100yr	(0.00) 64.76
		Static	(0.30) 69.80
		100yr + 20%	(0.00) 64.79
RYT1	65.00	2yr	(0.00) 63.94
		5yr	(0.00) 64.12
		100yr	(0.00) 64.76
		Static	(0.00) 65.00
		100yr + 20%	(0.00) 64.79
TRENCH DRAIN	63.70	2yr	(0.00) 64.61
		5yr	(0.00) 65.09
		100yr	(0.00) 65.34
		Static	(0.00) 67.30
		100yr + 20%	(0.00) 65.36

¹BASED ON PCSWMM MODEL (6-HOUR CHICAGO STORM DISTRIBUTION)

NOTE:
THE POSITION OF ALL POLE LINES, CONDUITS, WATER MAINS, 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.

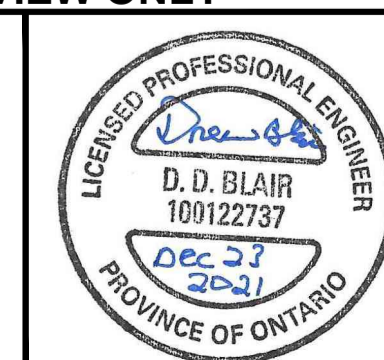
**PRELIMINARY
NOT FOR
CONSTRUCTION**

No.	REVISION	DATE	BY
1.	ISSUED FOR CITY OF OTTAWA REVIEW	DEC 23/21	DDB



DESIGN	BM
CHECKED	DDB
DRAWN	SAB
CHECKED	DDB
APPROVED	DDB

FOR REVIEW ONLY



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Ottawa, Ontario, Canada K2M 1P6
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Facsimile (613) 254-5867
Website www.novatech-eng.com

LOCATION
CITY OF OTTAWA
HILLSIDE COMMONS
ORLEANS TOWN CENTER

DRAWING NAME
STORMWATER MANAGEMENT PLAN

PROJECT No.
120237-00

REV #1
REV #1

DRAWING No.
120237-STM