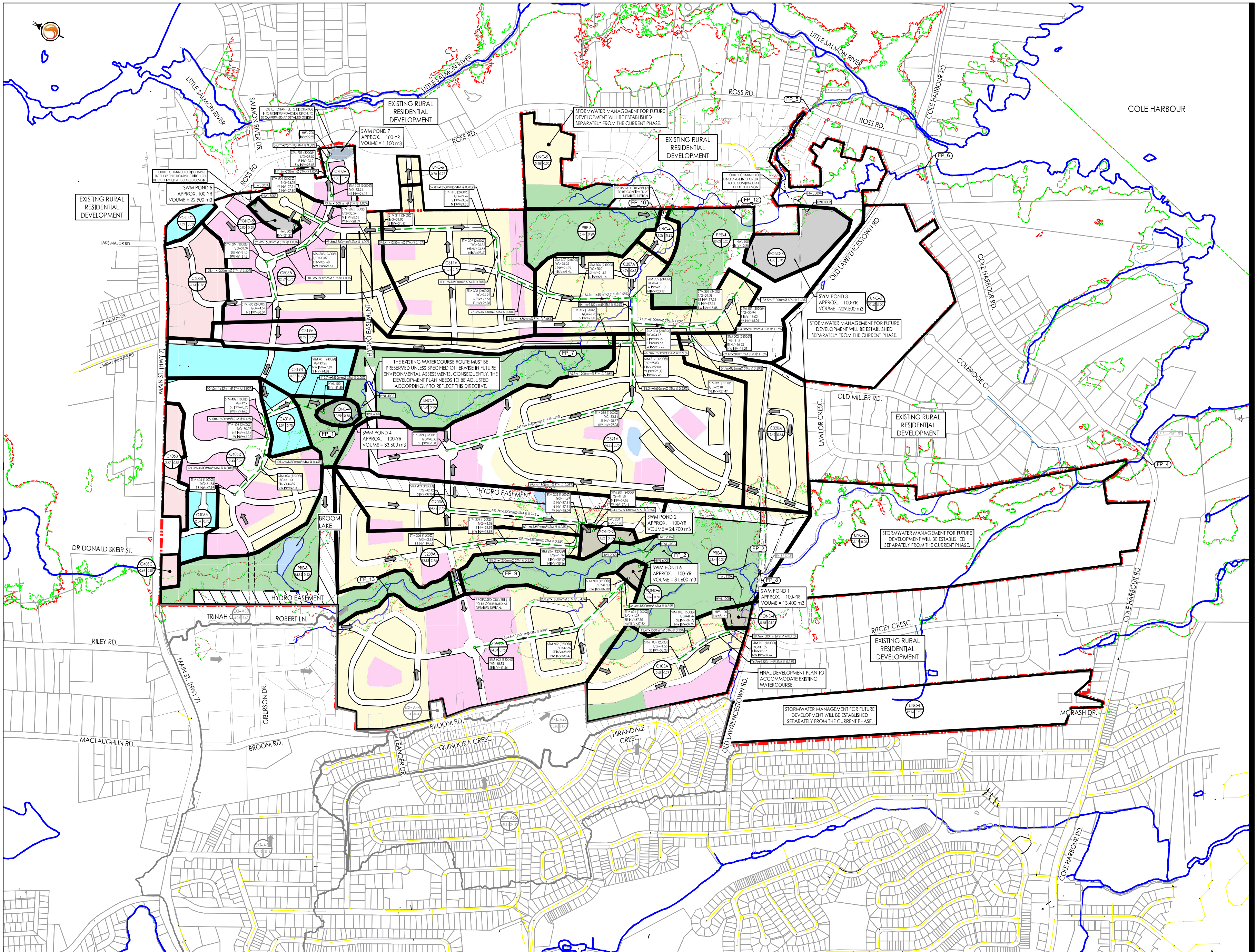
COLE HARBOUR
LITTLE SALMON RIVER
SALMON RIVER DR.
ROSS RD.
COLE HARBOUR RD.
OLD LAWRENCESTOWN RD.
COLERIDGE CT.
OLD MILLER RD.
LAWLOR CRESC.
RITCEY CRESC.
MORASH DR.
HIRANDALE CRESC.
QUINDORA CRESC.
LEANDER DR.
BROOM RD.
GIBERSON DR.
ROBERT LN.
TRINAH CT.
MAIN ST. (HWY 7)
RILEY RD.
MACLAUGHLIN RD.
DR DONALD SKEIR ST.
LAKE MAJOR RD.
CHERRY BROOK RD.
BROOM LAKE
HYDRO EASEMENT
EXISTING RURAL RESIDENTIAL DEVELOPMENT
STORMWATER MANAGEMENT FOR FUTURE DEVELOPMENT WILL BE ESTABLISHED SEPARATELY FROM THE CURRENT PHASE.
SWM POND 1 APPROX. 100-YR VOLUME = 13,400 m3
SWM POND 2 APPROX. 100-YR VOLUME = 24,700 m3
SWM POND 3 APPROX. 100-YR VOLUME =209,500 m3
SWM POND 4 APPROX. 100-YR VOLUME = 33,600 m3
SWM POND 5 APPROX. 100-YR VOLUME = 22,900 m3
SWM POND 6 APPROX. 100-YR VOLUME = 31,600 m3
SWM POND 7 APPROX. 100-YR VOLUME = 1,100 m3
THE EXISTING WATERCOURSE ROUTE MUST BE PRESERVED UNLESS SPECIFIED OTHERWISE IN FUTURE ENVIRONMENTAL ASSESSMENTS. CONSEQUENTLY, THE DEVELOPMENT PLAN NEEDS TO BE ADJUSTED ACCORDINGLY TO REFLECT THIS DIRECTIVE.
FINAL DEVELOPMENT PLAN TO ACCOMMODATE EXISTING WATERCOURSE.
FP_1
FP_2
FP_3
FP_4
FP_5
FP_6
FP_7
FP_8
FP_9
FP_10
FP_12
FP_13

Flow Point ID	2-year, 24hr Chicago Peak Flow (m3/s)		5-year, 24hr Chicago Peak Flow (m3/s)		10-year, 24hr Chicago Peak Flow (m3/s)		25-year, 24hr Chicago Peak Flow (m3/s)		50-year, 24hr Chicago Peak Flow (m3/s)		100-year, 24hr Chicago Peak Flow (m3/s)	
	Existing	Proposed	Existing	Proposed	Existing	Proposed	Existing	Proposed	Existing	Proposed	Existing	Proposed
FP1	0.269	0.117	0.446	0.142	0.602	0.267	0.811	0.458	0.979	0.649	1.505	1.322
FP2	1.396	1.337	2.295	1.972	3.038	2.904	4.150	4.044	5.000	4.880	7.550	6.526
FP3	2.895	2.848	4.272	4.064	4.898	4.585	6.514	5.865	7.760	7.104	11.501	9.568
FP4	4.023	3.739	5.946	5.447	7.557	6.973	9.680	8.975	11.334	10.493	15.566	13.743
FP5	1.166	1.081	2.081	1.458	2.835	1.839	5.600	2.325	6.529	2.708	8.044	7.718
FP6	0.669	0.640	0.990	0.945	1.242	1.181	1.573	1.492	1.829	1.730	2.513	2.352
FP7	0.454	0.200	0.811	0.288	1.125	0.438	1.544	0.723	1.895	0.986	3.235	1.923
FP8	2.396	2.198	3.672	3.132	4.908	4.147	6.664	5.930	7.955	7.196	11.533	9.684
FP9	2.357	1.539	3.374	2.048	3.938	2.474	5.083	3.038	6.034	3.483	8.936	4.568
FP10	0.513	0.354	0.816	0.537	1.078	0.678	1.421	0.873	1.692	1.032	2.634	1.427
FP11	0.639	0.632	0.929	0.792	1.167	0.953	1.479	1.250	1.718	1.527	2.404	1.878
FP12	0.997	0.558	1.778	0.838	2.452	1.091	3.378	1.420	4.134	1.727	6.971	3.326
FP13	3.708	3.354	5.397	4.854	6.671	5.979	8.312	7.432	9.569	8.550	12.187	10.767

Stantec

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Legend

- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- ⇦ DIRECTION OF OVERLAND FLOW
- LOW DENSITY RESIDENTIAL (C = 0.65)
- MULTI-RESIDENTIAL (C = 0.75)
- MIXED USE / COMMERCIAL (C = 0.85)
- PROPOSED INSTITUTIONAL (C = 0.70)
- COMMUNITY PARK (C = 0.40)
- 🟩 PARK & OPEN SPACE (C = 0.20)
- ▨ HYDRO EASEMENT
- EXISTING FORESTRY AND WETLAND (C = 0.20)
- APPROXIMATE LOCATION OF EXISTING WATERCOURSE
- CONCEPTUAL SWM POND
- EXISTING 100-YR FLOODLINE PRELIMINARY (HRM 2023)
- EXISTING 20-YR FLOODLINE PRELIMINARY (HRM 2023)
- 1-1 AREA ID; 0.60 RUNOFF COEFFICIENT; 1.13 STORM DRAINAGE AREA ha.
- STORM DRAINAGE BOUNDARY
- EXISTING STORM DRAINAGE BOUNDARY
- 1-1 EXISTING AREA ID; 0.60 EXISTING IMPERVIOUSNESS %; 1.13 EXISTING STORM DRAINAGE AREA ha.
- 🟥 STUDY AREA
- EXISTING 100-YR FLOODLINE PRELIMINARY (HRM 2023)
- EXISTING 20-YR FLOODLINE PRELIMINARY (HRM 2023)
- FP_20 FLOW POINT ID
- APPROXIMATE LOCATION OF EXISTING WATERCOURSE

Notes

1. SIZE AND LOCATION OF PROPOSED SWM PONDS TO BE CONFIRMED BASED ON FLODDPLAIN MAPPING FOR THE EXISTING WATERCOURSES.
2. NO ACTIVE DEVELOPMENT BE PERMITTED WITHIN THE LIMITS OF THE 100-YEAR REGULATORY FLOODPLAIN. SOME REDUCED-RISK USES, SUCH AS RECREATIONAL SPORTS FIELDS AND TRAILS, MAY BE CONSIDERED. THIS IS SUBJECT TO DESIGN CONSIDERATIONS THAT EFFECTIVELY MITIGATE AND/OR MINIMIZE THE IMPACT OF SUCH DEVELOPMENT ON THE FLOODPLAIN AND PROTECT THE RIPARIAN CORRIDOR FUNCTIONS

KEYPLAN
NTS

1 ISSUED FOR REVIEW	JP	DCT	24.02.14
Revision	By	Appd.	YY.MM.DD

File Name: 160410459-DB (Hwy 102).dwg	JP	DCT	JP	24.02.06
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Permit-Seal

Client/Project
HRM
WESTPHAL STUDY AREA

FUTURE SERVICED COMMUNITIES
WATER AND WASTEWATER ANALYSIS
HALIFAX, NS

Title
CONCEPTUAL STORM
DRAINAGE AREA PLAN

Project No.
160410459

Scale
1:4000
0 40 120 200m

Drawing No.
SD-1

Sheet
3 of 5

Revision
1

Appendix C Post to Pre-Development Peak Flow Results

Flow Point ID	2-year, 24hr Chicago Peak Flow (m^3/s)			5-year, 24hr Chicago Peak Flow (m^3/s)			10-year, 24hr Chicago Peak Flow (m^3/s)			25-year, 24hr Chicago Peak Flow (m^3/s)			50-year, 24hr Chicago Peak Flow (m^3/s)			100-year, 24hr Chicago Peak Flow (m^3/s)		
	Existing	Proposed	Difference	Existing	Proposed	Difference	Existing	Proposed	Difference	Existing	Proposed	Difference	Existing	Proposed	Difference	Existing	Proposed	Difference
FP1	0.269	0.117	-0.152	0.446	0.142	-0.304	0.602	0.267	-0.335	0.811	0.458	-0.352	0.979	0.649	-0.330	1.505	1.322	-0.183
FP2	1.396	1.337	-0.059	2.295	1.972	-0.323	3.038	2.904	-0.134	4.150	4.044	-0.107	5.000	4.880	-0.120	7.550	6.526	-1.025
FP3	2.895	2.848	-0.047	4.272	4.064	-0.208	4.898	4.585	-0.313	6.514	5.865	-0.649	7.760	7.104	-0.657	11.501	9.568	-1.932
FP4	4.023	3.739	-0.285	5.946	5.447	-0.499	7.557	6.973	-0.584	9.680	8.975	-0.705	11.334	10.493	-0.841	15.566	13.743	-1.823
FP5	1.166	1.081	-0.085	2.081	1.458	-0.622	2.835	1.839	-0.995	5.600	2.325	-3.275	6.529	2.708	-3.822	8.044	7.718	-0.327
FP6	0.669	0.640	-0.029	0.990	0.945	-0.045	1.242	1.181	-0.061	1.573	1.492	-0.082	1.829	1.730	-0.099	2.513	2.352	-0.162
FP7	0.454	0.200	-0.254	0.811	0.288	-0.523	1.125	0.438	-0.686	1.544	0.723	-0.821	1.895	0.986	-0.909	3.235	1.923	-1.313
FP8	2.396	2.198	-0.198	3.672	3.132	-0.540	4.908	4.147	-0.761	6.664	5.930	-0.734	7.955	7.196	-0.759	11.533	9.684	-1.849
FP9	2.357	1.539	-0.819	3.374	2.048	-1.326	3.938	2.474	-1.465	5.083	3.038	-2.044	6.034	3.483	-2.551	8.936	4.568	-4.368
FP10	0.513	0.354	-0.159	0.816	0.537	-0.279	1.078	0.678	-0.400	1.421	0.873	-0.547	1.692	1.032	-0.661	2.634	1.427	-1.207
FP11	0.639	0.632	-0.007	0.929	0.792	-0.137	1.167	0.953	-0.213	1.479	1.250	-0.229	1.718	1.527	-0.191	2.404	1.878	-0.525
FP12	0.997	0.558	-0.439	1.778	0.838	-0.940	2.452	1.091	-1.361	3.378	1.420	-1.958	4.134	1.727	-2.407	6.971	3.326	-3.645
FP13	3.708	3.354	-0.354	5.397	4.854	-0.543	6.671	5.979	-0.692	8.312	7.432	-0.880	9.569	8.550	-1.019	12.187	10.767	-1.420