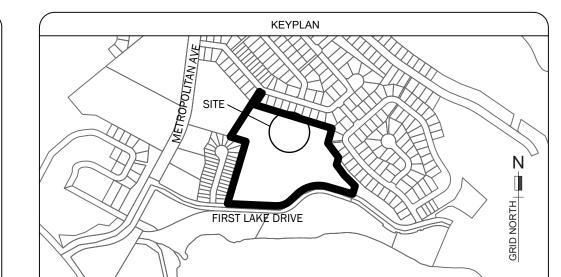


EXISTING PEAK FLOWS EXCEED PROPOSED PEAK FLOWS FOR ALL STORM EVENTS. THIS IS DUE TO THE EXISTING AREA OF ANALYSIS FULLY CONSISTING OF ASPHALT OR BUILDING, BEING IMPERMEABLE. THE PROPOSED DESIGN INCLUDES VARIOUS LANDSCAPED AREAS THAT WILL ALLOW SOME STORAGE AND INFILTRATION, CAUSING THE PEAK FLOW TO LOWER. NO DETENTION STORAGE WILL BE REQUIRED FOR THE REQUIRED FOR THE DEVELOPMENT.

								Time	Peak	Total	Total	Weighted	Drainage	Area	
					RM SUBBASINS			of Concentration	Runoff	Runoff	Precipitation	Curve Number	Node ID		ID
Tim	Peak	Total	Total	Weighted	Drainage	nt Area	Element		((,,,,,,)				(la = \	
	Runoff	Runoff	Precipitation		Node ID	ID	ID	(days hh:mm:ss) 0 00:05:00	0.04191	•	(mm) 111.15	98.00	OUT-STORM	(ha) 0.32	PR-BUILDING
Concentration				Number				0 00:05:00		105.16		98.00	OUT-STORM		R-IMPERMEABLE
(days hh:mm:s	(cms)	(mm)	(mm)			(ha)		0 00:05:00	0.00057		111.15	74.00	OUT-STORM		PR-LANDSCAPE1
		105.16	• •	98.00	OUT-STORM		EX-ASPHALT	0 00:05:00	0.00255			74.00	OUT-STORM		PR-LANDSCAPE2
0 00:05:0	0.03398	105.16	111.15	98.00	OUT-STORM	G 0.26	EX-BUILDING	0 00:05:00 0 00:05:00	0.00368 0.00198			74.00 74.00	OUT-STORM OUT-STORM		PR-LANDSCAPE3 PR-LANDSCAPE4
								0 00:05:00	0.00138			74.00	OUT-STORM		PR-LANDSCAPE5
	0.12375		PEAK FLOW =	AL EXISTING	ТОТА			0 00:05:00	0.00765			74.00	OUT-STORM		PR-LANDSCAPE6
									0.09968 0.12375		PEAK FLOW = PEAK FLOW =				
													M SUBBASINS	R STORN	ROPOSED 10-YEA
								Time	Peak			Weighted	_	Area	Element
Tim	Peak	Total	Total	Weighted	DRM SUBBASINS Drainage		EXISTING 10-Y Element	of Concentration	Runoff	Runoff	Precipitation	Curve Number	Node ID		ID
	_			_		_		(days hh:mm:ss)	(cms)	(mm)	(mm)			(ha)	
	Runoff	Runoff	Precipitation		Node ID	D	ID	0 00:05:00		134.24		98.00	OUT-STORM		PR-BUILDING
Concentratio				Number				0 00:05:00	0.04616	134.24	140.28	98.00	OUT-STORM	0.28	R-IMPERMEABLE
(days hh:mm:s	(cms)	(mm)	(mm)			(ha)		0 00:05:00	0.00085			74.00	OUT-STORM		PR-LANDSCAPE1
0 00:05:0	0.11383	134.24	140.28		OUT-STORM	T 0.69	EX-ASPHALT	0 00:05:00 0 00:05:00	0.00396 0.00566			74.00 74.00	OUT-STORM OUT-STORM		PR-LANDSCAPE2 PR-LANDSCAPE3
0 00:05:0	0.04276	134.24	140.28	98.00	OUT-STORM	G 0.26	EX-BUILDING	0 00:05:00	0.00312			74.00	OUT-STORM		PR-LANDSCAPE4
	0.15659		PEAK FLOW =	I FYICTING	TOTA			0 00:05:00	0.00736	70.79	140.28	74.00	OUT-STORM	0.08	PR-LANDSCAPE5
	0.15659		PEAK FLOW =	AL EXISTING	IOIA			0 00:05:00	0.01161	70.79	140.28	74.00	OUT-STORM	0.12	PR-LANDSCAPE6
									0.13167 0.15659		PEAK FLOW =				
													M SUBBASINS	R STORM	ROPOSED 25-YEAI
								Time	Peak	Total	Total	Weighted	Drainage	Area	Element
Time	Peak	Total	Total	Weighted	RM SUBBASINS Drainage		EXISTING 25-YE Element	of Concentration		Runoff	Precipitation	Curve Number	Node ID		ID
0	Runoff	Runoff	Precipitation	Curve F	Node ID)	ID	(days hh:mm:ss)		(mm) 171.09	• •	00 00	OUT STORM	(ha)	
Concentration				Number				0 00:05:00 0 00:05:00		171.09		98.00 98.00	OUT-STORM OUT-STORM		PR-BUILDING R-IMPERMEABLE
/ days lels	(()	()			(1)		0 00:05:00		101.30		74.00	OUT-STORM		PR-LANDSCAPE1
(days hh:mm:ss 0 00:05:00			(mm) 177.16	98.00	OUT-STORM	(ha) T 0.69	EX-ASPHALT	0 00:05:00	0.00566	102.01	177.16	74.00	OUT-STORM	0.04	PR-LANDSCAPE2
0 00:05:00			177.16	98.00	OUT-STORM		EX-BUILDING	0 00:05:00		102.06		74.00	OUT-STORM		PR-LANDSCAPEA
								0 00:05:00 0 00:05:00		101.98 102.08		74.00 74.00	OUT-STORM OUT-STORM		PR-LANDSCAPE4 PR-LANDSCAPE5
	0.19793	C	PEAK FLOW =	L EXISTING P	TOTAL			0 00:05:00		102.08		74.00	OUT-STORM		PR-LANDSCAPE6
									0.17358		PEAK FLOW =	PROPOSED	TOTALI		
									0.19793		PEAK FLOW =		TOTA		
									0.19793					R STORN	ROPOSED 50-YEAI
								Time	Peak	Total	PEAK FLOW = Total	EXISTING Weighted	M SUBBASINS Drainage		Element
Tim	Peak	Total	Total	Weighted	RM SUBBASINS Drainage		EXISTING 50-Y Element	Time of Concentration	Peak	Total	PEAK FLOW = Total Precipitation	EXISTING Weighted	VI SUBBASINS		
				-	Drainage	nt Area	Element	of Concentration (days hh:mm:ss)	Peak Runoff (cms)	Total Runoff (mm)	PEAK FLOW = Total Precipitation (mm)	Weighted Curve Number	M SUBBASINS Drainage Node ID	Area (ha)	Element ID
Time o Concentratio			Total Precipitation	-		nt Area		of Concentration (days hh:mm:ss) 0 00:05:00	Peak Runoff (cms) 0.07759	Total Runoff (mm) 198.60	Total Precipitation (mm) 204.70	Weighted Curve Number	M SUBBASINS Drainage Node ID OUT-STORM	(ha) 0.32	Element ID PR-BUILDING
c Concentratio	Runoff	Runoff	Precipitation	Curve	Drainage	nt Area	Element	of Concentration (days hh:mm:ss) 0 00:05:00 0 00:05:00	Peak Runoff (cms) 0.07759 0.06768	Total Runoff (mm) 198.60	PEAK FLOW = Total Precipitation (mm) 204.70 204.70	Weighted Curve Number 98.00 98.00	M SUBBASINS Drainage Node ID OUT-STORM OUT-STORM	(ha) 0.32 0.28	Element ID PR-BUILDING R-IMPERMEABLE
Concentratio (days hh:mm:ss	Runoff (cms)	Runoff (mm)	Precipitation (mm)	Curve Number	Drainage Node ID	nt Area D (ha)	Element ID	of Concentration (days hh:mm:ss) 0 00:05:00	Peak Runoff (cms) 0.07759 0.06768 0.00170	Total Runoff (mm) 198.60	Total Precipitation (mm) 204.70 204.70 204.70	Weighted Curve Number	M SUBBASINS Drainage Node ID OUT-STORM	(ha) 0.32 0.28 0.01	Element ID PR-BUILDING R-IMPERMEABLE PR-LANDSCAPE1
Concentratio (days hh:mm:ss	(cms) 0.16650	(mm) 198.60	Precipitation (mm) 204.70	Curve Number 98.00	Drainage Node ID OUT-STORM	(ha) T 0.69	Element ID EX-ASPHALT	of Concentration (days hh:mm:ss) 0 00:05:00 0 00:05:00 0 00:05:00	Peak Runoff (cms) 0.07759 0.06768 0.00170 0.00708 0.01019	Total Runoff (mm) 198.60 198.60 125.50 126.37 126.42	Total Precipitation (mm) 204.70 204.70 204.70 204.70 204.70	Weighted Curve Number 98.00 98.00 74.00	M SUBBASINS Drainage Node ID OUT-STORM OUT-STORM OUT-STORM	(ha) 0.32 0.28 0.01 0.04	PR-BUILDING R-IMPERMEABLE PR-LANDSCAPE1 PR-LANDSCAPE2
Concentratio (days hh:mm:ss	(cms) 0.16650	Runoff (mm)	Precipitation (mm) 204.70	Curve Number	Drainage Node ID	(ha) T 0.69	Element ID	of Concentration (days hh:mm:ss) 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00	Peak Runoff (cms) 0.07759 0.06768 0.00170 0.00708 0.01019 0.00566	Total Runoff (mm) 198.60 125.50 126.37 126.42 126.31	Total Precipitation (mm) 204.70 204.70 204.70 204.70 204.70 204.70 204.70	EXISTING Weighted Curve Number 98.00 98.00 74.00 74.00 74.00 74.00 74.00	OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM	(ha) 0.32 0.28 0.01 0.04 0.06 0.03	PR-BUILDING R-IMPERMEABLE PR-LANDSCAPE1 PR-LANDSCAPE2 PR-LANDSCAPE3 PR-LANDSCAPE4
Concentratio (days hh:mm:ss	(cms) 0.16650	(mm) 198.60 198.60	Precipitation (mm) 204.70	Curve Number 98.00 98.00	Node ID OUT-STORM OUT-STORM	(ha) T 0.69	Element ID EX-ASPHALT	of Concentration (days hh:mm:ss) 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00	Peak Runoff (cms) 0.07759 0.06768 0.00170 0.00708 0.01019 0.00566 0.01359	Total Runoff (mm) 198.60 125.50 126.37 126.42 126.31 126.42	Total Precipitation (mm) 204.70 204.70 204.70 204.70 204.70 204.70 204.70 204.70	Weighted Curve Number 98.00 98.00 74.00 74.00 74.00 74.00 74.00	OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM	(ha) 0.32 0.28 0.01 0.04 0.06 0.03 0.08	PR-BUILDING R-IMPERMEABLE PR-LANDSCAPE1 PR-LANDSCAPE2 PR-LANDSCAPE3 PR-LANDSCAPE4 PR-LANDSCAPE4
Concentratio (days hh:mm:ss	(cms) 0.16650 0.06230	(mm) 198.60 198.60	(mm) 204.70 204.70	Curve Number 98.00 98.00	Node ID OUT-STORM OUT-STORM	(ha) T 0.69	Element ID EX-ASPHALT	of Concentration (days hh:mm:ss) 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00	Peak Runoff (cms) 0.07759 0.06768 0.00170 0.00708 0.01019 0.00566 0.01359	Total Runoff (mm) 198.60 198.60 125.50 126.37 126.42 126.41	Total Precipitation (mm) 204.70 204.70 204.70 204.70 204.70 204.70 204.70 204.70	Weighted Curve Number 98.00 98.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00	OUT-STORM	(ha) 0.32 0.28 0.01 0.04 0.06 0.03 0.08	PR-BUILDING -IMPERMEABLE R-LANDSCAPE1 R-LANDSCAPE2 R-LANDSCAPE3 R-LANDSCAPE4 R-LANDSCAPE5
Concentratio (days hh:mm:ss	(cms) 0.16650 0.06230	(mm) 198.60 198.60	(mm) 204.70 204.70	Curve Number 98.00 98.00	Node ID OUT-STORM OUT-STORM	(ha) T 0.69	Element ID EX-ASPHALT	of Concentration (days hh:mm:ss) 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00	Peak Runoff (cms) 0.07759 0.06768 0.00170 0.00566 0.01359 0.02096	Total Runoff (mm) 198.60 125.50 126.37 126.42 126.42 126.44	PEAK FLOW = Total Precipitation (mm) 204.70 204.70 204.70 204.70 204.70 204.70 204.70 204.70	EXISTING Weighted Curve Number 98.00 98.00 74.00 74.00 74.00 74.00 74.00 74.00	OUT-STORM	(ha) 0.32 0.28 0.01 0.04 0.06 0.03 0.08	PR-BUILDING R-IMPERMEABLE PR-LANDSCAPE1 PR-LANDSCAPE2 PR-LANDSCAPE3 PR-LANDSCAPE4 PR-LANDSCAPE4
Concentratio (days hh:mm:ss	(cms) 0.16650 0.06230	(mm) 198.60 198.60	(mm) 204.70 204.70	Curve Number 98.00 98.00	Node ID OUT-STORM OUT-STORM	(ha) T 0.69	Element ID EX-ASPHALT	of Concentration (days hh:mm:ss) 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00	Peak Runoff (cms) 0.07759 0.06768 0.00170 0.00566 0.01359 0.02096 0.20445 0.22880	Total Runoff (mm) 198.60 125.50 126.37 126.42 126.42 126.44	Total Precipitation (mm) 204.70 204.70 204.70 204.70 204.70 204.70 204.70 204.70 204.70	Weighted Curve Number 98.00 98.00 74.00 74.00 74.00 74.00 74.00 PROPOSED L EXISTING	OUT-STORM	(ha) 0.32 0.28 0.01 0.04 0.03 0.08 0.12	ID
Concentratio (days hh:mm:ss 0 00:05:0 0 00:05:0	(cms) 0.16650 0.06230	(mm) 198.60 198.60	(mm) 204.70 204.70 PEAK FLOW =	Curve Number 98.00 98.00	Node ID OUT-STORM OUT-STORM TOTAL	nt Area D (ha) T 0.69 G 0.26	EX-ASPHALT EX-BUILDING EXISTING 100-	of Concentration (days hh:mm:ss) 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00	Peak Runoff (cms) 0.07759 0.06768 0.00170 0.00566 0.01359 0.02096 0.20445 0.22880 Peak	Total Runoff (mm) 198.60 125.50 126.37 126.42 126.44 Total	Total Precipitation (mm) 204.70 204.70 204.70 204.70 204.70 204.70 204.70 204.70 Total Precipitation	Weighted Curve Number 98.00 98.00 74.00 74.00 74.00 74.00 74.00 PROPOSED LEXISTING	OUT-STORM	(ha) 0.32 0.28 0.01 0.04 0.03 0.08 0.12	PR-BUILDING R-IMPERMEABLE PR-LANDSCAPE1 PR-LANDSCAPE3 PR-LANDSCAPE4 PR-LANDSCAPE5 PR-LANDSCAPE5 PR-LANDSCAPE6
Concentratio (days hh:mm:ss 0 00:05:0 0 00:05:0	(cms) 0.16650 0.06230 0.22880 .:	(mm) 198.60 198.60	(mm) 204.70 204.70 PEAK FLOW =	Curve Number 98.00 98.00 LEXISTING I	Node ID OUT-STORM OUT-STORM TOTAL ORM SUBBASINS Drainage	nt Area D (ha) T 0.69 G 0.26	EX-ASPHALT EX-BUILDING EXISTING 100-Element	of Concentration (days hh:mm:ss) 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 Time of	Peak Runoff (cms) 0.07759 0.06768 0.00170 0.00566 0.01359 0.02096 0.20445 0.22880 Peak Runoff	Total Runoff (mm) 198.60 125.50 126.37 126.42 126.44 Total	Total Precipitation (mm) 204.70 204.70 204.70 204.70 204.70 204.70 204.70 204.70 Total Precipitation	Weighted Curve Number 98.00 98.00 74.00 74.00 74.00 74.00 PROPOSED L EXISTING Weighted Curve	OUT-STORM	(ha) 0.32 0.28 0.01 0.04 0.03 0.08 0.12	PR-BUILDING R-IMPERMEABLE PR-LANDSCAPE1 PR-LANDSCAPE3 PR-LANDSCAPE4 PR-LANDSCAPE5 PR-LANDSCAPE5 PR-LANDSCAPE6
Concentratio (days hh:mm:ss 0 00:05:0 0 00:05:0	(cms) 0.16650 0.06230 0.22880 .:	(mm) 198.60 198.60	(mm) 204.70 204.70 PEAK FLOW =	Curve Number 98.00 98.00 IL EXISTING I	Node ID OUT-STORM OUT-STORM TOTAL	nt Area D (ha) T 0.69 G 0.26	EX-ASPHALT EX-BUILDING EXISTING 100-	of Concentration (days hh:mm:ss) 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 Time of Concentration	Peak Runoff (cms) 0.07759 0.06768 0.00170 0.00566 0.01359 0.02096 0.20445 0.22880 Peak Runoff (cms) 0.08807	Total Runoff (mm) 198.60 125.50 126.37 126.42 126.44 Total Runoff (mm) 225.43	Total Precipitation (mm) 204.70 204.70 204.70 204.70 204.70 204.70 204.70 204.70 204.70 PEAK FLOW = PEAK FLOW = Total Precipitation (mm) 231.54	Weighted Curve Number 98.00 98.00 74.00 74.00 74.00 74.00 PROPOSED L EXISTING Weighted Curve	OUT-STORM	(ha) 0.32 0.28 0.01 0.04 0.06 0.03 0.12 AR STOR Area	PR-BUILDING R-IMPERMEABLE PR-LANDSCAPE1 PR-LANDSCAPE3 PR-LANDSCAPE4 PR-LANDSCAPE5 PR-LANDSCAPE5 PR-LANDSCAPE6
Concentratio (days hh:mm:ss 0 00:05:0 0 00:05:0	(cms) 0.16650 0.06230 0.22880 .:	(mm) 198.60 198.60	(mm) 204.70 204.70 PEAK FLOW =	Curve Number 98.00 98.00 LEXISTING I	Node ID OUT-STORM OUT-STORM TOTAL ORM SUBBASINS Drainage	nt Area D (ha) T 0.69 G 0.26	EX-ASPHALT EX-BUILDING EXISTING 100-Element	of Concentration (days hh:mm:ss) 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 Time of Concentration (days hh:mm:ss) 0 00:05:00 0 00:05:00	Peak Runoff (cms) 0.07759 0.06768 0.00170 0.00566 0.01359 0.02096 0.20445 0.22880 Peak Runoff (cms) 0.08807 0.08807 0.07674	Total Runoff (mm) 198.60 125.50 126.37 126.42 126.44 Total Runoff (mm) 225.43 225.43	Total Precipitation (mm) 204.70 204.	Weighted Curve Number 98.00 98.00 74.00 74.00 74.00 74.00 PROPOSED LEXISTING Weighted Curve Number 98.00 98.00 98.00	Node ID OUT-STORM	(ha) 0.32 0.28 0.01 0.04 0.06 0.03 0.08 0.12	PR-BUILDING R-IMPERMEABLE PR-LANDSCAPE2 PR-LANDSCAPE3 PR-LANDSCAPE4 PR-LANDSCAPE5 PR-LANDSCAPE5 PR-LANDSCAPE6 ROPOSED 100-YEA Element ID PR-BUILDING R-IMPERMEABLE
Concentratio (days hh:mm:ss 0 00:05:0 0 00:05:0	(cms) 0.16650 0.06230 0.22880 :: Peak Runoff	(mm) 198.60 198.60	(mm) 204.70 204.70 PEAK FLOW = Total Precipitation	Curve Number 98.00 98.00 IL EXISTING I	Node ID OUT-STORM OUT-STORM TOTAL ORM SUBBASINS Drainage	nt Area D (ha) T 0.69 G 0.26	EX-ASPHALT EX-BUILDING EXISTING 100-Element	of Concentration (days hh:mm:ss) 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 Time Time of Concentration (days hh:mm:ss) 0 00:05:00 0 00:05:00 0 00:05:00	Peak Runoff (cms) 0.07759 0.06768 0.00170 0.00566 0.01359 0.02096 0.20445 0.22880 Peak Runoff (cms) 0.08807 0.08807 0.07674 0.00198	Total Runoff (mm) 198.60 125.50 126.37 126.42 126.44 Total Runoff (mm) 225.43 225.43 149.76	Total Precipitation (mm) 204.70 204.70 204.70 204.70 204.70 204.70 204.70 204.70 204.70 204.50 PEAK FLOW = Total Precipitation (mm) 231.54 231.54 231.54	Weighted Curve Number 98.00 74.00 74.00 74.00 74.00 74.00 PROPOSED LEXISTING Weighted Curve Number 98.00 98.00 98.00 98.00 98.00 74.00	OUT-STORM	(ha) 0.32 0.28 0.01 0.04 0.03 0.08 0.12 AR STOR Area (ha) 0.32 0.28 0.01	PR-BUILDING R-IMPERMEABLE PR-LANDSCAPE2 PR-LANDSCAPE3 PR-LANDSCAPE4 PR-LANDSCAPE5 PR-LANDSCAPE5 PR-LANDSCAPE6 ROPOSED 100-YEA Element ID PR-BUILDING R-IMPERMEABLE PR-LANDSCAPE1
Concentration (days hh:mm:ss 0 00:05:0 0 00:05:0 Time Concentration (days hh:mm:ss 0 00:05:0	(cms) 0.16650 0.06230 0.22880 :: Peak Runoff (cms) 0.18859	(mm) 198.60 198.60 Total Runoff (mm) 225.43	Precipitation (mm) 204.70 204.70 PEAK FLOW = Total Precipitation (mm) 231.54	Curve Number 98.00 98.00 LEXISTING F Curve Number	Node ID OUT-STORM OUT-STORM TOTAL ORM SUBBASINS Drainage Node ID OUT-STORM	(ha) T 0.69 G 0.26 (ha) T Area D (ha)	EX-ASPHALT EX-BUILDING EXISTING 100-Element ID	of Concentration (days hh:mm:ss) 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 Time of Concentration (days hh:mm:ss) 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00	Peak Runoff (cms) 0.07759 0.06768 0.00170 0.00566 0.01359 0.02096 0.20445 0.22880 Peak Runoff (cms) 0.08807 0.07674 0.00198 0.00850	Total Runoff (mm) 198.60 125.50 126.37 126.42 126.31 126.42 126.44 Total Runoff (mm) 225.43 149.76 150.65	Total Precipitation (mm) 204.70 204.	Weighted Curve Number 98.00 74.00 74.00 74.00 74.00 74.00 PROPOSED LEXISTING Weighted Curve Number 98.00 98.00 74.00 74.00 74.00	Node ID OUT-STORM	(ha) 0.32 0.28 0.01 0.04 0.03 0.08 0.12 AR STOR Area (ha) 0.32 0.28 0.01 0.04	PR-BUILDING R-IMPERMEABLE PR-LANDSCAPE2 PR-LANDSCAPE3 PR-LANDSCAPE4 PR-LANDSCAPE5 PR-LANDSCAPE6 ROPOSED 100-YEA Element ID PR-BUILDING R-IMPERMEABLE PR-LANDSCAPE1 PR-LANDSCAPE1
Concentration (days hh:mm:ss 0 00:05:0 0 00:05:0 Tim Concentration (days hh:mm:ss 0 00:05:0	(cms) 0.16650 0.06230 0.22880 :: Peak Runoff (cms) 0.18859	(mm) 198.60 198.60 Total Runoff (mm)	Precipitation (mm) 204.70 204.70 PEAK FLOW = Total Precipitation (mm) 231.54	Curve Number 98.00 98.00 LEXISTING F Curve Number	Node ID OUT-STORM OUT-STORM TOTAL ORM SUBBASINS Drainage Node ID	(ha) T 0.69 G 0.26 (ha) T Area D (ha)	EX-ASPHALT EX-BUILDING EXISTING 100-Element ID	of Concentration (days hh:mm:ss) 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 Time Time of Concentration (days hh:mm:ss) 0 00:05:00 0 00:05:00 0 00:05:00	Peak Runoff (cms) 0.07759 0.06768 0.00170 0.00566 0.01359 0.02096 0.20445 0.22880 Peak Runoff (cms) 0.08807 0.07674 0.00198 0.00850 0.01218	Total Runoff (mm) 198.60 125.50 126.37 126.42 126.44 Total Runoff (mm) 225.43 225.43 149.76	Total Precipitation (mm) 204.70 204.70 204.70 204.70 204.70 204.70 204.70 204.70 204.50 PEAK FLOW = Total Precipitation (mm) 231.54 231.54 231.54 231.54	Weighted Curve Number 98.00 74.00 74.00 74.00 74.00 74.00 PROPOSED LEXISTING Weighted Curve Number 98.00 98.00 98.00 98.00 98.00 74.00	OUT-STORM	(ha) 0.32 0.28 0.01 0.04 0.06 0.03 0.08 0.12 AR STOR Area (ha) 0.32 0.28 0.01 0.04 0.06	PR-BUILDING R-IMPERMEABLE PR-LANDSCAPE2 PR-LANDSCAPE3 PR-LANDSCAPE4 PR-LANDSCAPE5 PR-LANDSCAPE6 ROPOSED 100-YEA Element ID PR-BUILDING R-IMPERMEABLE PR-LANDSCAPE1 PR-BUILDING R-IMPERMEABLE PR-LANDSCAPE2 PR-LANDSCAPE3
Concentratio (days hh:mm:ss	(cms) 0.16650 0.06230 0.22880 E Peak Runoff (cms) 0.18859 0.07023	(mm) 198.60 198.60 Total Runoff (mm) 225.43 225.43	Precipitation (mm) 204.70 204.70 PEAK FLOW = Total Precipitation (mm) 231.54 231.54	Curve Number 98.00 98.00 LEXISTING F Curve Number 98.00 98.00	Node ID OUT-STORM OUT-STORM TOTAL ORM SUBBASINS Drainage Node ID OUT-STORM OUT-STORM	(ha) T 0.69 G 0.26 (ha) T Area D (ha)	EX-ASPHALT EX-BUILDING EXISTING 100-Element ID	of Concentration (days hh:mm:ss) 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00	Peak Runoff (cms) 0.07759 0.06768 0.00170 0.00566 0.01359 0.02096 0.20445 0.22880 Peak Runoff (cms) 0.08807 0.07674 0.00198 0.00850 0.01218 0.00680 0.01614	Total Runoff (mm) 198.60 125.50 126.37 126.42 126.44 Total Runoff (mm) 225.43 225.43 149.76 150.65 150.70 150.62 150.72	Total Precipitation (mm) 204.70 204.70 204.70 204.70 204.70 204.70 204.70 204.70 204.50 PEAK FLOW = Total Precipitation (mm) 231.54 231.54 231.54 231.54 231.54 231.54	### Curve Number 98.00 74.	Node ID OUT-STORM	(ha) 0.32 0.28 0.01 0.04 0.06 0.03 0.08 0.12 AR STOR Area (ha) 0.32 0.28 0.01 0.04 0.06 0.03 0.08	PR-BUILDING R-IMPERMEABLE PR-LANDSCAPE2 PR-LANDSCAPE3 PR-LANDSCAPE5 PR-LANDSCAPE5 PR-LANDSCAPE6 ROPOSED 100-YEA Element ID PR-BUILDING R-IMPERMEABLE PR-LANDSCAPE1 PR-LANDSCAPE2 PR-LANDSCAPE2 PR-LANDSCAPE3 PR-LANDSCAPE3 PR-LANDSCAPE3 PR-LANDSCAPE3 PR-LANDSCAPE4 PR-LANDSCAPE4 PR-LANDSCAPE5
Concentratio (days hh:mm:ss 0 00:05:0 0 00:05:0 Tim Concentratio (days hh:mm:ss 0 00:05:0 0 00:05:0	(cms) 0.16650 0.06230 0.22880 :: Peak Runoff (cms) 0.18859	(mm) 198.60 198.60 Total Runoff (mm) 225.43 225.43	Precipitation (mm) 204.70 204.70 PEAK FLOW = Total Precipitation (mm) 231.54	Curve Number 98.00 98.00 LEXISTING F Curve Number 98.00 98.00	Node ID OUT-STORM OUT-STORM TOTAL ORM SUBBASINS Drainage Node ID OUT-STORM OUT-STORM	(ha) T 0.69 G 0.26 (ha) T Area D (ha)	EX-ASPHALT EX-BUILDING EXISTING 100-Element ID	of Concentration (days hh:mm:ss) 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 Time of Concentration (days hh:mm:ss) 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00	Peak Runoff (cms) 0.07759 0.06768 0.00170 0.00566 0.01359 0.02096 0.20445 0.22880 Peak Runoff (cms) 0.08807 0.07674 0.00198 0.00850 0.01218 0.00680 0.01614	Total Runoff (mm) 198.60 125.50 126.37 126.42 126.31 126.42 126.44 Total Runoff (mm) 225.43 149.76 150.65 150.70 150.62	Total Precipitation (mm) 204.70 204.70 204.70 204.70 204.70 204.70 204.70 204.70 204.50 PEAK FLOW = Total Precipitation (mm) 231.54 231.54 231.54 231.54 231.54 231.54	### Curve Number 98.00 74.	Node ID OUT-STORM	(ha) 0.32 0.28 0.01 0.04 0.06 0.03 0.08 0.12 AR STOR Area (ha) 0.32 0.28 0.01 0.04 0.06 0.03 0.08	PR-BUILDING R-IMPERMEABLE PR-LANDSCAPE2 PR-LANDSCAPE3 PR-LANDSCAPE4 PR-LANDSCAPE5 PR-LANDSCAPE6 PR-LANDSCAPE6 PR-LANDSCAPE6 PR-LANDSCAPE6 PR-LANDSCAPE6 PR-BUILDING R-IMPERMEABLE PR-LANDSCAPE1 PR-LANDSCAPE1 PR-LANDSCAPE2 PR-LANDSCAPE3 PR-LANDSCAPE3



NOTES:

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3. ALL WORK MUST CONFORM TO HALIFAX WATER AND HALIFAX
REGIONAL MUNICIPALITY STANDARDS AND SPECIFICATIONS (LATEST

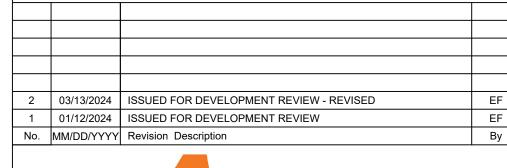
THE STORM WATER RUNOFF FOR THE 1:5, 1:10, 1:25, 1:50, 1:100 YEAR STORM EVENTS WAS ESTIMATED USING STORM & SANITARY ANALYSIS 2020 (SSA) FROM AUTOCAD CIVIL 3D.

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1:5 = 111.8mm OF RAIN FALL OVER 24HR PERIOD

1:10 =141.1mm OF RAIN FALL OVER 24HR PERIOD

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	SCALE: 1:500								
0m	10m	20m	30m	40m	50m				

70 FIRST LAKE DRIVE SACKVILLE, NS

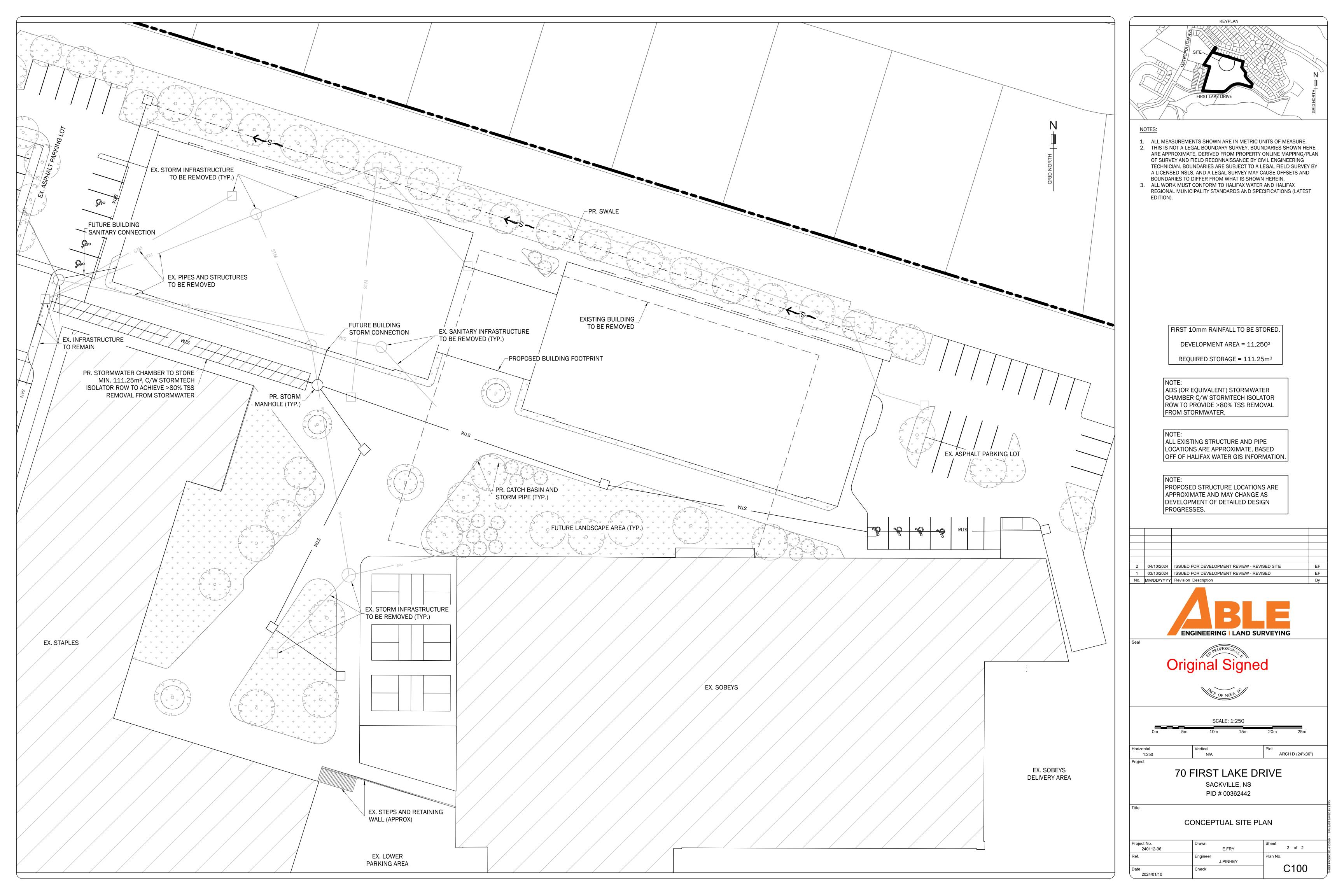
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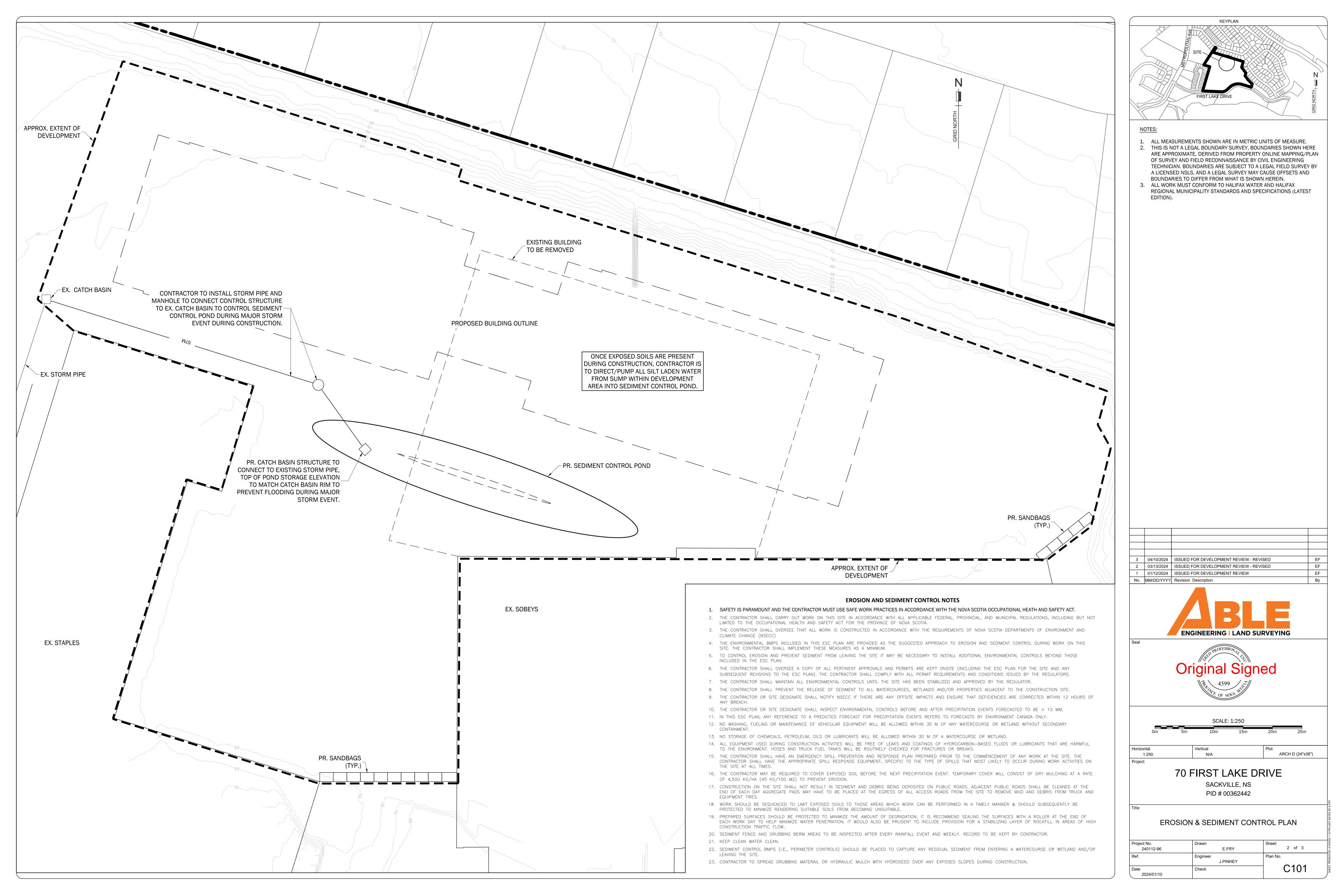
CONCEPTUAL STORMWATER ANALYSIS

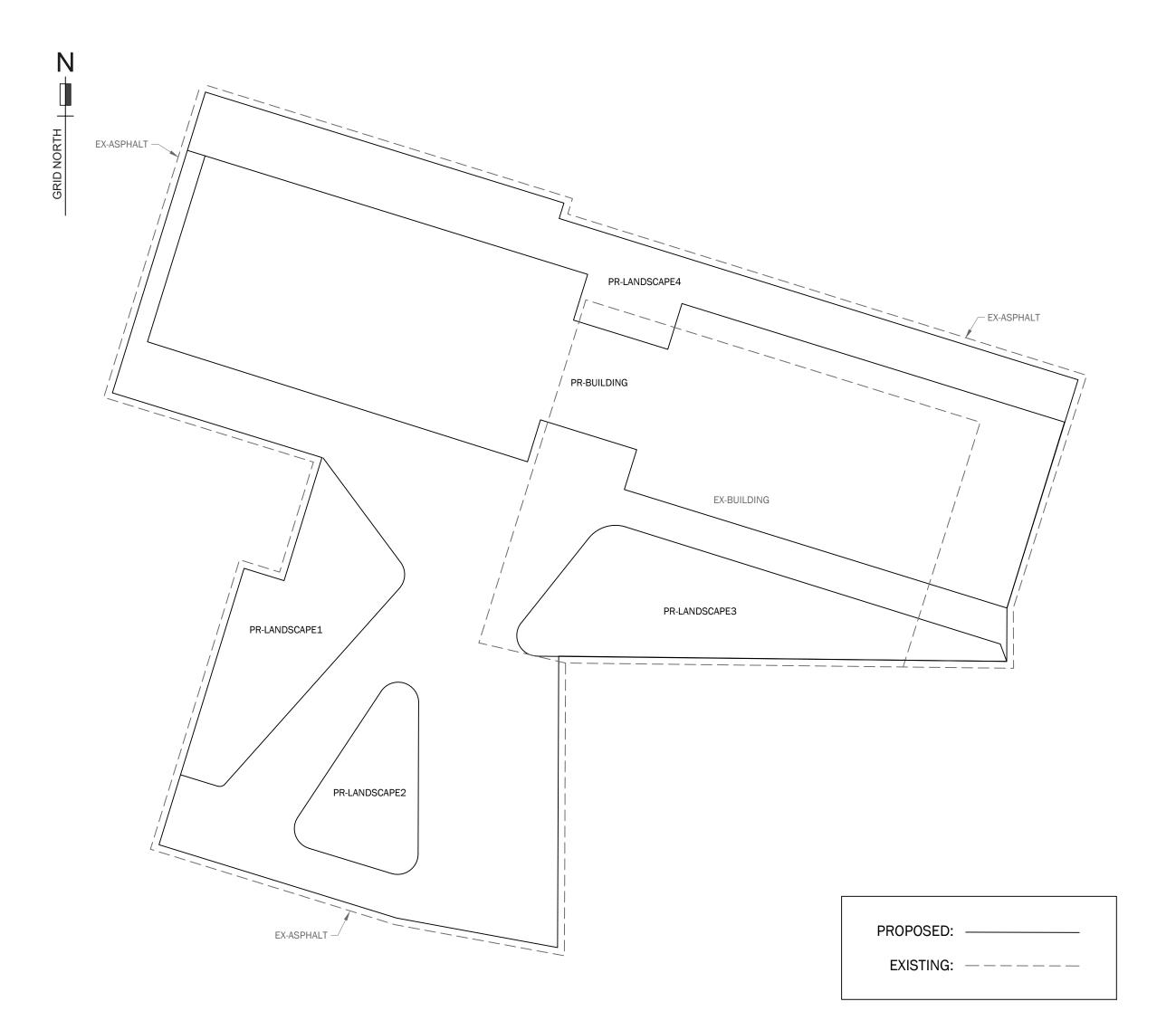
 Project No.
 Drawn
 Sheet
 3 of 3

 Ref.
 Engineer
 Plan No.

 Date
 2024/01/10
 Check
 C102







EXISTING PEAK FLOWS EXCEED PROPOSED PEAK FLOWS FOR ALL STORM EVENTS. THIS IS DUE TO THE EXISTING AREA OF ANALYSIS FULLY CONSISTING OF ASPHALT OR BUILDING, BEING IMPERMEABLE. THE PROPOSED DESIGN INCLUDES VARIOUS LANDSCAPED AREAS THAT WILL ALLOW SOME STORAGE AND INFILTRATION, CAUSING THE PEAK FLOW TO LOWER. NO DETENTION STORAGE WILL BE REQUIRED FOR THE REQUIRED FOR THE DEVELOPMENT.

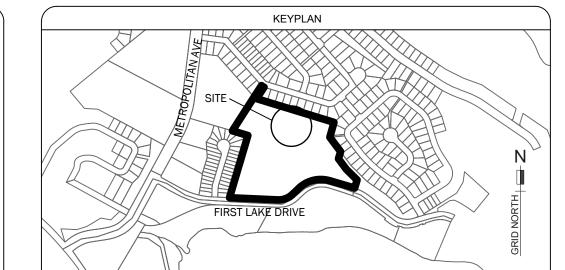
								Time	Peak	Total	Total	Weighted	Drainage \	Area	Element
Time	Peak	Total	Total	Weighted	M SUBBASINS Drainage		EXISTING 5-YE Element	of Concentration	Runoff	Runoff	Precipitation	Curve Number	Node ID		ID
o Concentratio	Runoff	Runoff	Precipitation	Curve Number	Node ID	D	ID	(days hh:mm:ss)	(cms)	(mm)	(mm)			(ha)	
				T Commoci				0 00:05:00 0 00:05:00		105.16 105.16		98.00 98.00	OUT-STORM OUT-STORM	0.32 0.34	PR-BUILDING PR-IMPERMEABLE
(days hh:mm:ss 0 00:05:0	(cms) 0.08977	(mm) 105.16	(mm) 111.15	98.00	OUT-STORM	(ha) .T 0.69	EX-ASPHALT	0 00:05:00	0.00368	47.65	111.15	74.00	OUT-STORM	0.06	PR-LANDSCAPE1
0 00:05:0	0.03398	105.16	111.15	98.00	OUT-STORM	G 0.26	EX-BUILDING	0 00:05:00 0 00:05:00	0.00198 0.00481		111.15 111.15	74.00 74.00	OUT-STORM OUT-STORM	0.03	PR-LANDSCAPE2 PR-LANDSCAPE3
	0.12375		PEAK FLOW =	L EXISTING	тота			0 00:05:00	0.00765	47.68	111.15	74.00	OUT-STORM	0.12	PR-LANDSCAPE4
									0.10364 0.12357		PEAK FLOW = PEAK FLOW =				
								Time	Peak	Total	Total	Weighted			PROPOSED 10-YEAF Element
					RM SUBBASINS	-YEAR STO	EXISTING 10-Y				Precipitation	_	Node ID	7.11 0.01	ID
Time	Peak	Total	Total	Weighted	Drainage	t Area	Element	Concentration	Kulloli	Kulloll	Precipitation	Number	Node ID		ID.
o	Runoff	Runoff	Precipitation		Node ID	D	ID	(days hh:mm:ss)	(cms)	(mm)	(mm)			(ha)	
Concentration				Number				0 00:05:00	0.05295	134.24	140.28	98.00	OUT-STORM	0.32	PR-BUILDING
(days hh:mm:ss		(mm)		. -	O. 17. 57	(ha)			0.05522 0.00566			98.00 74.00	OUT-STORM OUT-STORM		PR-IMPERMEABLE PR-LANDSCAPE1
0 00:05:0 0 00:05:0	0.11383 0.04276			98.00 98.00	OUT-STORM OUT-STORM		EX-ASPHALT EX-BUILDING		0.00312 0.00736			74.00 74.00	OUT-STORM OUT-STORM		PR-LANDSCAPE2 PR-LANDSCAPE3
	0.15659		PEAK FLOW =	I EVICTING	TOTA			0 00:05:00	0.00736			74.00	OUT-STORM		PR-LANDSCAPES PR-LANDSCAPE4
	0.13033		PEAR FLOW =	LEXISTING	IOIA				0.13592 0.15659		PEAK FLOW = PEAK FLOW =				
													/I SUBBASINS	R STORM	PROPOSED 25-YEAR
								Time	Peak	Total	Total	Weighted	Drainage	Area	Element
Time	Peak	Total	Total	Weighted	RM SUBBASINS Drainage \		EXISTING 25-YI Element		Runoff	Runoff	Precipitation		Node ID		ID
of	Runoff	Runoff	Precipitation	Curve I	Node ID)	ID	Concentration				Number			
Concentration	nanon	tunon i	recipitation	Number	Node 15			(days hh:mm:ss) 0 00:05:00	(cms) 0.06711			98.00	OUT-STORM	(ha) 0.32	PR-BUILDING
days hh:mm:ss)	(cms)	(mm)	(mm)			(ha)		0 00:05:00	0.06994	171.09	177.16	98.00	OUT-STORM	0.34	PR-IMPERMEABLE
0 00:05:00	0.14413	171.09 C	177.16	98.00	OUT-STORM	Г 0.69	EX-ASPHALT	0 00:05:00 0 00:05:00	0.00821 0.00453	102.06 101.98		74.00 74.00	OUT-STORM OUT-STORM		PR-LANDSCAPE1 PR-LANDSCAPE2
0 00:05:00).05380	171.09 C	177.16	98.00	OUT-STORM	0.26	EX-BUILDING		0.01104 0.01699			74.00 74.00	OUT-STORM OUT-STORM		PR-LANDSCAPE3 PR-LANDSCAPE4
	0.19793	C	PEAK FLOW =	. EXISTING F	TOTAL						177.10	74.00	001-310MW	0.12	r N-LANDSCAP L4
									0.17782 0.19793		PEAK FLOW =				
								Time	Peak	Total	Total	Weighted			PROPOSED 50-YEAR Element
					RM SUBBASINS			of	Runoff	Runoff	Precipitation	Curve	Node ID		ID
Time	Peak	Total	Total	Weighted	Drainage	t Area	Element	Concentration				Number			
of Concentration	Runoff	Runoff	Precipitation	Curve Number	Node ID)	ID	(days hh:mm:ss)	(cms)	(mm)	(mm)			(ha)	
				Number					0.07759 0.08070			98.00 98.00	OUT-STORM OUT-STORM		PR-BUILDING PR-IMPERMEABLE
days hh:mm:ss) 0 00:05:00		(mm) 198.60 ((mm) 204.70	98.00	OUT-STORM	(ha) T 0.69	EX-ASPHALT	0 00:05:00	0.01019	126.42	204.70	74.00	OUT-STORM	0.06	PR-LANDSCAPE1
0 00:05:00		198.60		98.00	OUT-STORM		EX-BUILDING		0.00566 0.01359			74.00 74.00	OUT-STORM OUT-STORM		
	0.22880	1	PEAK FLOW =	L EXISTING I	TOTA			0 00:05:00	0.02096	126.44	204.70	74.00	OUT-STORM	0.12	PR-LANDSCAPE4
	:								0.20869 0.22880		PEAK FLOW = PEAK FLOW =				
													M SUBBASINS	AR STORN	ROPOSED 100-YEA
					ORM SUBBASINS	U AEVD &±.	EVICTING 100	Time	Peak	Total	Total	Weighted	Drainage	Area	Element
Time	Peak	Total	Total	Weighted			EXISTING 100- Element	of Concentration	Runoff	Runoff	Precipitation	Curve Number	Node ID		ID
	Runoff	Runoff	Precipitation	Curve	Node ID	D	ID					iaminbet			
^			Josephalion		NOUE ID	-	טו	(days hh:mm:ss)		(mm) 225.43		22.22	OUT CTORNA	(ha)	
o Concentration				Number				0 00:05:00	U.U&&U./	223.45	231.54	98.00	OUT-STORM	0.32	PR-BUILDING
	(cms)	(mm)	(mm)	Number		(ha)		0 00:05:00	0.09146	225.43	231.54	98.00 98.00	OUT-STORM	0.34	PR-BUILDING PR-IMPERMEABLE
Concentration (days hh:mm:ss 0 00:05:00	0.18859	225.43	231.54	98.00	OUT-STORM	T 0.69	EX-ASPHALT	0 00:05:00 0 00:05:00		225.43 150.70	231.54 231.54			0.34 0.06	
Concentration (days hh:mm:ss	0.18859	225.43 225.43	231.54	98.00 98.00	OUT-STORM	T 0.69	EX-ASPHALT EX-BUILDING	0 00:05:00 0 00:05:00 0 00:05:00 0 00:05:00	0.09146 0.01218	225.43 150.70 150.62 150.72	231.54 231.54 231.54 231.54	98.00 74.00 74.00 74.00	OUT-STORM OUT-STORM	0.34 0.06 0.03 0.08	PR-IMPERMEABLE PR-LANDSCAPE1

TOTAL PROPOSED PEAK FLOW =

TOTAL EXISTING PEAK FLOW =

0.23985

0.25882



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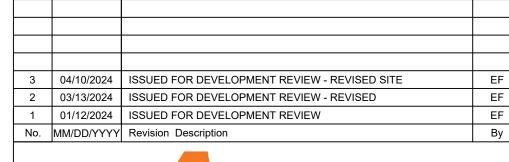
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SCALE: 1:500 Om 10m 20m 30m 40m 50m

| Horizontal | Vertical | Plot | 1:500 | N/A | ARCH D (24"x36")

70 FIRST LAKE DRIVE

SACKVILLE, NS PID # 00362442

CONCEPTUAL STORMWATER ANALYSIS

 Project No.
 Drawn
 Sheet
 3 of 3

 Ref.
 Engineer
 Plan No.

 Date
 Check
 C102