

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.

						KEYPLAN
ROPOSED 5-YEAR STORM Element Area	Drainage Wei	ighted	Total Total Peak	k Time		SITE SITE
ID		-	itation Runoff Runof		EXISTING 5-YEAR STORM SUBBASINS	
	N	umber		Concentration	Element Area Drainage Weighted Total Total Peak Time	
(ha) PR-BUILDING 0.32	OUT-STORM		(mm) (mm) (cms) 111.15 105.16 0.04191		ID Node ID Curve Precipitation Runoff Runoff of Number Concentration	FIRST LAKE DRIVE
PR-IMPERMEABLE 0.28 PR-LANDSCAPE1 0.01			111.15 105.16 0.03653 111.15 47.27 0.00057			
PR-LANDSCAPE2 0.04	OUT-STORM	74.00	111.15 47.63 0.00255	5 0 00:05:00	(ha) (mm) (mm) (cms) (days hh:mm:ss) EX-ASPHALT 0.69 OUT-STORM 98.00 111.15 105.16 0.08977 0 00:05:00	NOTES:
PR-LANDSCAPE3 0.06 PR-LANDSCAPE4 0.03	OUT-STORM	74.00	111.1547.650.00368111.1547.570.00198	8 0 00:05:00	EX-BUILDING 0.26 OUT-STORM 98.00 111.15 105.16 0.03398 0 00:05:00	1. ALL MEASUREMENTS SHOWN ARE IN METRIC UNITS OF MEASURE
PR-LANDSCAPE5 0.08 PR-LANDSCAPE6 0.12			111.1547.650.00481111.1547.680.00765		TOTAL EXISTING PEAK FLOW = 0.12375	 THIS IS NOT A LEGAL BOUNDARY SURVEY, BOUNDARIES SHOWN H ARE APPROXIMATE, DERIVED FROM PROPERTY ONLINE MAPPING/
	TOTAL PRC	POSED PEAK FL	LOW = 0.09968	8		OF SURVEY AND FIELD RECONNAISSANCE BY CIVIL ENGINEERING TECHNICIAN. BOUNDARIES ARE SUBJECT TO A LEGAL FIELD SURVE
		ISTING PEAK FL				A LICENSED NSLS, AND A LEGAL SURVEY MAY CAUSE OFFSETS AN BOUNDARIES TO DIFFER FROM WHAT IS SHOWN HEREIN. 3. ALL WORK MUST CONFORM TO HALIFAX WATER AND HALIFAX
						REGIONAL MUNICIPALITY STANDARDS AND SPECIFICATIONS (LATE: EDITION).
PROPOSED 10-YEAR STORN	/I SUBBASINS					
Element Area	Drainage Wei	ghted	Total Total Peak	k Time		
ID		Curve Precipit umber	itation Runoff Runoff	f of Concentration	EXISTING 10-YEAR STORM SUBBASINS	
(ha)			(mm) (mm) (cms)		Element Area Drainage Weighted Total Total Peak Time	
PR-BUILDING 0.32	OUT-STORM	98.00	140.28 134.24 0.05295	5 0 00:05:00	ID Node ID Curve Precipitation Runoff Runoff of Number Concentration	
PR-IMPERMEABLE 0.28 PR-LANDSCAPE1 0.01	OUT-STORM OUT-STORM		140.28134.240.04616140.2870.100.00085		(ha) (mm) (mm) (cms) (days hhimmiss)	
PR-LANDSCAPE2 0.04 PR-LANDSCAPE3 0.06			140.2870.740.00396140.2870.760.00566		(ha) (mm) (cms) (days hh:mm:ss) EX-ASPHALT 0.69 OUT-STORM 98.00 140.28 134.24 0.11383 0 00:05:00	
PR-LANDSCAPE4 0.03 PR-LANDSCAPE5 0.08	OUT-STORM	74.00	140.28 70.69 0.00312 140.28 70.79 0.00736	2 0 00:05:00	EX-BUILDING 0.26 OUT-STORM 98.00 140.28 134.24 0.04276 0 00:05:00	
PR-LANDSCAPES 0.08 PR-LANDSCAPE6 0.12			140.28 70.79 0.00736 140.28 70.79 0.01161		TOTAL EXISTING PEAK FLOW = 0.15659	
		POSED PEAK FL ISTING PEAK FL				
PROPOSED 25-YEAR STORM	1 SUBBASINS					
Element Area	Drainage Wei	ghted	Total Total Peak	c Time		
ID		Curve Precipit umber	tation Runoff Runoff	f of Concentration	EXISTING 25-YEAR STORM SUBBASINS Element Area Drainage Weighted Total Total Peak Time	
(ha)			(mm) (mm) (cms)) (days hh:mm:ss)		THE STORM WATER RUNOFF FOR THE 1:5, 1:10, 1:25, 1:50, 1:100 YEA
PR-BUILDING 0.32		98.00 1	177.16 171.09 0.06711	L 0 00:05:00	ID Node ID Curve Precipitation Runoff Runoff of Number Concentration	STORM EVENTS WAS ESTIMATED USING STORM & SANITARY ANALYSIS 2020 (SSA) FROM AUTOCAD CIVIL 3D.
PR-IMPERMEABLE 0.28 PR-LANDSCAPE1 0.01	OUT-STORM	74.00 1	177.16 171.09 0.05862 177.16 101.30 0.00142	2 0 00:05:00	(ha) (mm) (mm) (cms) (days hh:mm:ss)	THE STORM WATER CALCULATIONS WERE BASED ON THE SOIL
PR-LANDSCAPE2 0.04 PR-LANDSCAPE3 0.06			177.16 102.01 0.00566 177.16 102.06 0.00821		EX-ASPHALT 0.69 OUT-STORM 98.00 177.16 171.09 0.14413 0 00:05:00	CONSERVATION SERVICE METHOD (SCS TR-55) RUNOFF METHODOLOG USING THE SYNTHETIC DESIGN STORM EVENT COMMONLY REFERRED THE CHICAGO STORM. THE RAIN FALL AMOUNTS USED IN THE ANALYSIS
PR-LANDSCAPE4 0.03 PR-LANDSCAPE5 0.08			177.16 101.98 0.00453 177.16 102.08 0.01104		EX-BUILDING 0.26 OUT-STORM 98.00 177.16 171.09 0.05380 0 00:05:00	MODELING ARE AS FOLLOWS & WERE OBTAINED FROM ENVIRONMENT CANADA RAIN FALL DATABASE.
PR-LANDSCAPE6 0.12			177.16 102.08 0.01104		TOTAL EXISTING PEAK FLOW = 0.19793	1:5 = 111.8mm OF RAIN FALL OVER 24HR PERIOD 1:10 =141.1mm OF RAIN FALL OVER 24HR PERIOD
		POSED PEAK FLO				1:25 = 178.2mm OF RAIN FALL OVER 24HR PERIOD 1:50 = 205.9mm OF RAIN FALL OVER 24HR PERIOD
	TOTAL EXI	STING PEAK FL	LOW = 0.19793			1:100 = 232.9mm OF RAIN FALL OVER 24HR PERIOD
PROPOSED 50-YEAR STORM						
	Drainage Wei	ghted	Total Total Peak	k Time		
Element Area	-					
Element Area ID	Node ID	Curve Precipit umber	itation Runoff Runoff	f of Concentration	EXISTING 50-YEAR STORM SUBBASINS Element Area Drainage Weighted Total Total Peak Time	1 01/12/2024 ISSUED FOR DEVELOPMENT REVIEW No. MM/DD/YYYY Revision Description
	Node ID	umber	(mm) (mm) (cms)	Concentration) (days hh:mm:ss)	Element Area Drainage Weighted Total Total Peak Time	
ID	Node ID Nu OUT-STORM	u mbe r 98.00 2		Concentration) (days hh:mm:ss) 9 0 00:05:00		
ID (ha) PR-BUILDING 0.32 PR-IMPERMEABLE 0.28 PR-LANDSCAPE1 0.01	Node ID Nu OUT-STORM OUT-STORM OUT-STORM	98.00 2 98.00 2 74.00 2	(mm) (mm) (cms) 204.70 198.60 0.07759 204.70 198.60 0.06768 204.70 125.50 0.00170	Concentration (days hh:mm:ss) 0 0 00:05:00 0 0 00:05:00 0 0 00:05:00	Element Area Drainage Weighted Total Total Peak Time ID Node ID Curve Precipitation Runoff Runoff of ID Node ID Curve Precipitation Runoff Runoff concentration (ha) (mm) (mm) (cms) (days hh:mm:ss)	No. MM/DD/YYYY Revision Description
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ID (ha) PR-BUILDING 0.32 PR-IMPERMEABLE 0.28 PR-LANDSCAPE1 0.01 PR-LANDSCAPE2 0.04 PR-LANDSCAPE3 0.06 PR-LANDSCAPE4 0.03 PR-LANDSCAPE5 0.08	Node ID Nu OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM	98.00 2 98.00 2 98.00 2 74.00 2 74.00 2 74.00 2 74.00 2 74.00 2	(mm) (mm) (cms) 204.70 198.60 0.07759 204.70 198.60 0.06768 204.70 125.50 0.00170 204.70 126.37 0.00708 204.70 126.42 0.01019 204.70 126.31 0.00566 204.70 126.42 0.01359	Concentration) (days hh:mm:ss) 9 0 00:05:00 8 0 00:05:00 0 0 00:05:00 8 0 00:05:00 9 0 00:05:00 9 0 00:05:00 9 0 00:05:00	ElementAreaDrainageWeightedTotalTotalPeakTimeIDIDNode IDCurvePrecipitationRunoffRunoffof ConcentrationID<	No. MM/DD/YYYY Revision Description
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ID PR-BUILDING 0.32 PR-IMPERMEABLE 0.28 PR-LANDSCAPE1 0.01 PR-LANDSCAPE2 0.04 PR-LANDSCAPE3 0.06 PR-LANDSCAPE4 0.03 PR-LANDSCAPE5 0.08 PR-LANDSCAPE6 0.12 PR-LANDSCAPE6 0.12 PROPOSED 100-YEAR STOR ID ID ID ID PR-BUILDING 0.32	Node ID Nu OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM Drainage Wei Node ID Nu OUT-STORM OUT-STORM	98.00 2 98.00 2 74.00 2 74.00 2 74.00 2 74.00 2 74.00 2 74.00 2 74.00 2 74.00 2 74.00 2 74.00 2 POSED PEAK FL ISTING PEAK FL umber Precipit 98.00 2 98.00 2 74.00 2	(mm) (mm) (cms) 204.70 198.60 0.07759 204.70 198.60 0.06768 204.70 125.50 0.00170 204.70 126.37 0.00708 204.70 126.42 0.01019 204.70 126.42 0.01359 204.70 126.44 0.02096 LOW = 0.20445 LOW = 0.22880 Total Total Peak itation Runoff Runoff (mm) (mm) (cms) 231.54 225.43 0.08807	Concentration (days hh:mm:ss) (days hh:mm:ss) (0 0 00:05:00 0 0 0 00:05:00 0 0 0 00:05:00 0 0 0 00:05:00 0 0 0 0 00:05:00 0 0 0 0 0 00:05:00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Element Area Drainage Weighted Total Total Peak Time ID Node ID Curve Precipitation Runoff Runoff of (ha) (mm) (mm) (mm) (cms) (days hh:mm:ss) EX-ASPHALT 0.69 OUT-STORM 98.00 204.70 198.60 0.06230 0.00:05:00 EX-BUILDING 0.26 OUT-STORM 98.00 204.70 198.60 0.06230 0.00:05:00 EX-BUILDING 0.26 OUT-STORM 98.00 204.70 198.60 0.06230 0.00:05:00 EXISTING 100-YEAR STORM SUBBASINS Image Image Image Image Image Image Image EXISTING 100-YEAR STORM SUBBASINS Image Image	No. MM//DD/YYYY Revision Description ABBLE BBLE ENGINEERING I LAND SURVEYING Seal Original Signed Original Signed Model Scale Scale Scale Original Signed Model Scale Original Signed Model Scale Scale Scale Original Signed Mail Scale Scale Original Signed Mail Based Scale Mail Mail Scale Scale Original Signed Mail Mail Mail Scale Scale Scale Scale Scale Scale Scale Scale Scale Scale Mail Scale Mail Mail Mail Mail Mail Mail Mail Mail Mail Mail Mail Mail Mail Mail </td
ID PR-BUILDING 0.32 PR-IMPERMEABLE 0.28 PR-LANDSCAPE1 0.01 PR-LANDSCAPE2 0.04 PR-LANDSCAPE3 0.06 PR-LANDSCAPE4 0.03 PR-LANDSCAPE5 0.08 PR-LANDSCAPE6 0.12 PR-LANDSCAPE6 0.12 PR-LANDSCAPE6 0.12 PR-LANDSCAPE6 0.12 PR-BUILDING Area ID ID PR-BUILDING 0.32 PR-BUILDING 0.32 PR-BUILDING 0.32 PR-BUILDING 0.32 PR-BUILDING 0.32 PR-LANDSCAPE1 0.01	Node ID Nu OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM Drainage Wei Node ID Nu OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM	98.00 2 98.00 2 74.00 2 98.00 2 98.00 2 98.00 2 74.00 2 74.00 2 74.00 2 74.00 2 74.00 2	(mm)(mm)(cms) 204.70 198.60 0.07759 204.70 198.60 0.06768 204.70 125.50 0.00170 204.70 126.37 0.00708 204.70 126.42 0.01019 204.70 126.42 0.01359 204.70 126.44 0.02096 $LOW =$ 0.20445 $LOW =$ 0.20445 $LOW =$ 0.20445 $LOW =$ 0.20445 126.44 0.02096 $LOW =$ 0.20445 204.70 126.44 0.20445 0.22880 $LOW =$ 0.20445 126.44 0.02096 $LOW =$ 0.20445 126.44 0.02096 $LOW =$ 0.20445 0.22880 0.22880 $LOW =$ 0.20445 0.22880 0.22880 204.70 126.44 0.00198 0.07674 231.54 225.43 0.07674 231.54 149.76 0.00198	Concentration (days hh:mm:ss) (days hh:mm:ss) (0 0 00:05:00 0 0 00:05:00 0 0 00:05:00 0 0 00:05:00 0 0 00:05:00 0 0 00:05:00 0 0 00:05:00 0 0 00:05:00 0 (days hh:mm:ss) 7 0 00:05:00 1 0 0 00:05:00 1 0 0 00:05:00 1 0 0 00:05:00 1 0 0 00:05:00 1 0 0 00:05:00 1 0 0 00:05:00 1 0 0 00:05:00 1 0 0 00:05:00 1 0 0 00:05:00 1 0 0 00:05:00 1 0 0 00:05:00 1 0 0 00:05:00 1 0 0 00:05:00 1 0 0 00:05:00 1 0 0 00:05:00 1 0 0 00 1 0 00:05:00 1 0 0	Element Area Drainage Weighted Total Total Peak Time ID Node ID Curve Precipitation Runoff Runoff of (ha) (mm)	No. MM//DD/YYYY Revision Description ABLE BLE EngineEring I Land Surveying Seal Original Signed Original Signed Mit down Sont Scale Scale EngineEring I Land Surveying Seal Original Signed Mit down Sont Bale Mit down Sont Bale Original Signed Mit down Bale Sont Mit down Sont Horizontal Vertical Plot Arch D (24*x) Project TO FIRST LAKE DRIVE
ID (ha) PR-BUILDING 0.32 PR-IANDSCAPE1 0.01 PR-LANDSCAPE2 0.04 PR-LANDSCAPE3 0.06 PR-LANDSCAPE4 0.03 PR-LANDSCAPE5 0.08 PR-LANDSCAPE6 0.12 PR-LANDSCAPE6 0.12 PR-LANDSCAPE6 0.12 PROPOSED 100-YEAR ID PR-LANDSCAPE6 0.12 ID ID PR-BUILDING 0.32 PR-LANDSCAPE1 0.01 PR-LANDSCAPE3 0.04 PR-LANDSCAPE3 0.06 PR-LANDSCAPE4 0.03 PR-LANDSCAPE3 0.06 PR-LANDSCAPE3 0.06	Node ID Nu OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM Drainage Wei Node ID Nu OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM	98.00 2 98.00 2 74.00 2 98.00 2 98.00 2 98.00 2 98.00 2 74.00	(mm)(mm)(cms) 204.70 198.60 0.07759 204.70 198.60 0.06768 204.70 125.50 0.00170 204.70 126.37 0.00708 204.70 126.42 0.01019 204.70 126.42 0.01359 204.70 126.42 0.02096 $LOW =$ 0.20445 $LOW =$ 0.20445 $LOW =$ 0.20445 $LOW =$ 0.20445 126.44 0.02096 $LOW =$ 0.20445 126.44 0.02096 $LOW =$ 0.20445 0.22880 126.44 0.02096 $LOW =$ 0.20445 0.20445 $100W =$ 0.20445 0.22880 231.54 100166 231.54 225.43 0.001216 231.54 150.65 0.00850 231.54 150.62 0.00680 231.54 150.72 0.01614	Concentration (days hh:mm:ss) (days hh:mm:ss) (0 0 00:05:00 0 0 00:05:00 0 0 00:05:00 0 0 00:05:00 0 0 00:05:00 0 0 00:05:00 0 0 00:05:00 0 0 00:05:00 0 (days hh:mm:ss) 7 0 00:05:00 1 0 0 00:05:00 1 0 0 00:05:00 1 0 0 00:05:00 1 0 0 00:05:00 1 0 0 00:05:00 1 0 0 00	ElementAreaDrainageWeightedTotalTotalPeakTimeIDNode IDCurvePrecipitationRunoffRunoffof Concentration(ha)(ma)(mm)(mm)(cms)(days hh:mm:ss) 0.062300.00:05:00EX-ASPHALT0.69OUT-STORM98.00204.70198.600.166500.00:05:00EX-ASPHALT0.69OUT-STORM98.00204.70198.600.166500.00:05:00EX-BUILDING0.26OUT-STORM98.00204.70198.600.062300.00:05:00EX-BUILDING0.26OUT-STORM98.00204.70198.600.062300.00:05:00EXENTING 100-VEARDUT-STORM98.00204.70198.600.166500.00:05:00IDNode IDDrainageWeightedTotalTotalPeakTimeIDNode IDCurvePrecipitationRunoffConcentrationIDNode IDCurvePrecipitationRunoffConcentrationIDNode IDQUT-STORM98.00231.54225.430.188590.00:05:00	No. MM//DD/YYYY Revision Description ABBLEE Construction Seal Original Signed Ori
ID PR-BUILDING 0.32 PR-IMPERMEABLE 0.28 PR-LANDSCAPE1 0.01 PR-LANDSCAPE3 0.06 PR-LANDSCAPE4 0.03 PR-LANDSCAPE5 0.08 PR-LANDSCAPE6 0.12 PR-LANDSCAPE6 0.12 PR-LANDSCAPE6 0.12 PR-LANDSCAPE6 0.12 PR-BUILDING 0.32 PR-LANDSCAPE1 0.01 PR-LANDSCAPE3 0.04 PR-LANDSCAPE4 0.03	Node ID Nu OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM Drainage Wei Node ID Nu OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM	98.00 2 98.00 2 98.00 2 74.00 2 74.00 2 74.00 2 74.00 2 74.00 2 74.00 2 74.00 2 74.00 2 74.00 2 98.00 2 98.00 2 98.00 2 98.00 2 74.00 <td< td=""><td>(mm)(mm)(cms)$204.70$$198.60$$0.07759$$204.70$$198.60$$0.06768$$204.70$$125.50$$0.00170$$204.70$$126.37$$0.00708$$204.70$$126.42$$0.01019$$204.70$$126.42$$0.01359$$204.70$$126.42$$0.02096$LOW =0.20445LOW =0.20445LOW =0.22880tiationRunoffRunoffRunoff(mm)(mm)(mm)(cms)$231.54$$225.43$$0.08807$$231.54$$150.65$$0.001218$$231.54$$150.72$$0.01614$$231.54$$150.72$$0.01614$$231.54$$150.72$$0.01614$$231.54$$150.72$$0.01614$$231.54$$150.72$$0.02520$</td><td>Concentration (days hh:mm:ss) 0 0 00:05:00 1 0 00:05:00 2 0 00:05:00 2 0 00:05:00 3 0 00:05:00 4 0 00:05:00 3 0 00:05:00 4 0 00:05:00 4 0 00:05:00 5 0 0 00:05:00 4 0 00:05:00 5 0 0 0 0 00:05:00 5 0 0 0 0 00:05:00 5 0 0 0 0 0:05:00 5 0 0 0 0 0 0 0:05:00 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>ElementAreaDrainageWeightedTotalTotalTotalPeakTimeIDNode IDCurvePrecipitationRunoffRunoffofConcentrationEX-ASPHALI0.69OUT-STORM98.00204.70198.600.165500.0005:00EX-BUILDING0.26OUT-STORM98.00204.70198.600.165500.0005:00EX-BUILDING0.26OUT-STORM98.00204.70198.600.62300.0005:00EXISTING 100TOTALEXISTING PEak FLOW =0.228800.0005:000.0005:00EXISTING 100EX-BUILDINGNode IDDrainageMeightedTotalTotalPeakTimeEXISTING 100EXISTING 100EXISTING 100EXISTING 100EXISTING 100TotalPeakTimeEXISTING 100IIIINode IDCurvePrecipitationRunoffRunoffofConcentrationNode IDCurvePrecipitationRunoffCurveforIDIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</td><td>No. MM/DD/YYY Revision Description ABBLEE BELE ENGINEEERING LAND SURVEYING Seal Original Signed SCALE: 1:500 Om 10m 20m 30m 40m 50m Horizontal 1:500 Original Signed Min 20m 30m 40m 50m Horizontal 1:500 To FIRST LAKE DRIVE Project Title CONCEPTUAL STORMWATER ANALYSIS</td></td<>	(mm)(mm)(cms) 204.70 198.60 0.07759 204.70 198.60 0.06768 204.70 125.50 0.00170 204.70 126.37 0.00708 204.70 126.42 0.01019 204.70 126.42 0.01359 204.70 126.42 0.02096 LOW = 0.20445 LOW = 0.20445 LOW = 0.22880 tiationRunoffRunoffRunoff(mm)(mm) (mm) (cms) 231.54 225.43 0.08807 231.54 150.65 0.001218 231.54 150.72 0.01614 231.54 150.72 0.01614 231.54 150.72 0.01614 231.54 150.72 0.01614 231.54 150.72 0.02520	Concentration (days hh:mm:ss) 0 0 00:05:00 1 0 00:05:00 2 0 00:05:00 2 0 00:05:00 3 0 00:05:00 4 0 00:05:00 3 0 00:05:00 4 0 00:05:00 4 0 00:05:00 5 0 0 00:05:00 4 0 00:05:00 5 0 0 0 0 00:05:00 5 0 0 0 0 00:05:00 5 0 0 0 0 0:05:00 5 0 0 0 0 0 0 0:05:00 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ElementAreaDrainageWeightedTotalTotalTotalPeakTimeIDNode IDCurvePrecipitationRunoffRunoffofConcentrationEX-ASPHALI0.69OUT-STORM98.00204.70198.600.165500.0005:00EX-BUILDING0.26OUT-STORM98.00204.70198.600.165500.0005:00EX-BUILDING0.26OUT-STORM98.00204.70198.600.62300.0005:00EXISTING 100TOTALEXISTING PEak FLOW =0.228800.0005:000.0005:00EXISTING 100EX-BUILDINGNode IDDrainageMeightedTotalTotalPeakTimeEXISTING 100EXISTING 100EXISTING 100EXISTING 100EXISTING 100TotalPeakTimeEXISTING 100IIIINode IDCurvePrecipitationRunoffRunoffofConcentrationNode IDCurvePrecipitationRunoffCurveforIDIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	No. MM/DD/YYY Revision Description ABBLEE BELE ENGINEEERING LAND SURVEYING Seal Original Signed SCALE: 1:500 Om 10m 20m 30m 40m 50m Horizontal 1:500 Original Signed Min 20m 30m 40m 50m Horizontal 1:500 To FIRST LAKE DRIVE Project Title CONCEPTUAL STORMWATER ANALYSIS
ID (ha) PR-BUILDING 0.32 PR-IANDSCAPE1 0.01 PR-LANDSCAPE2 0.04 PR-LANDSCAPE3 0.06 PR-LANDSCAPE4 0.03 PR-LANDSCAPE5 0.08 PR-LANDSCAPE6 0.12 PR-LANDSCAPE6 0.12 PR-LANDSCAPE6 0.12 PROPOSED 100-YEAR ID PR-LANDSCAPE6 0.12 ID ID PR-BUILDING 0.32 PR-LANDSCAPE1 0.01 PR-LANDSCAPE3 0.04 PR-LANDSCAPE3 0.06 PR-LANDSCAPE4 0.03 PR-LANDSCAPE3 0.06 PR-LANDSCAPE3 0.06	Node ID Nu OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM Drainage Wei Node ID Nu OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM OUT-STORM	98.00 2 98.00 2 74.00 2 98.00 2 98.00 2 98.00 2 98.00 2 74.00	(mm)(mm)(cms)204.70198.600.07759204.70125.500.00170204.70126.370.00788204.70126.420.01019204.70126.420.01359204.70126.440.02096204.70126.440.02096204.70126.440.02096LOW =0.20445LOW =0.20445LOW =0.20445204.70126.440.02096LOW =0.20445204.70126.440.22880LOW =0.20445231.54225.43231.54225.43231.54150.70231.54150.70231.54150.70231.54150.72	Concentration (days hh:mm:ss) 0 0 00:05:00 1 0 00:05:00 2 0 00:05:00 2 0 00:05:00 3 0 00:05:00 4 0 00:05:00 3 0 00:05:00 4 0 00:05:00 4 0 00:05:00 4 0 00:05:00 3 0 00:05:00 4 0 00:05:00 4 0 00:05:00 3 0 00:05:00 4 0 00:05:00 4 0 00:05:00 5 0 0 00:05:00 5 0 0 00:05:00 6 0 00:05:00 6 0 00:05:00 7 0 00:05:00 7 0 00:05:00 8 0 00:05:00 9 0 00:05:00 0 0 00:0	ElementAreaDrainageWeightedTotalTotalTotalPeakTimeIDNode IDCurvePrecipitationRunoffRunoffofConcentrationEX-ASPHALI0.69OUT-STORM98.00204.70198.600.165500.0005:00EX-BUILDING0.26OUT-STORM98.00204.70198.600.165500.0005:00EX-BUILDING0.26OUT-STORM98.00204.70198.600.62300.0005:00EXISTING 100TOTALEXISTING PEak FLOW =0.228800.0005:000.0005:00EXISTING 100EX-BUILDINGNode IDDrainageMeightedTotalTotalPeakTimeEXISTING 100EXISTING 100EXISTING 100EXISTING 100EXISTING 100TotalPeakTimeEXISTING 100IIIINode IDCurvePrecipitationRunoffRunoffofConcentrationNode IDCurvePrecipitationRunoffCurveforIDIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	No. MM/DD/YYYY Revision Description ABBLEE BBLEE ENGINEERING LAND SURVEYING Seal Original Signed Original Signed Mutual Association SCALE: 1:500 Om 10m 20m 30m 40m 50m Horizontal 1:500 MARCH D (24"x Project To FIRST LAKE DRIVE PID # 00362442 Title

Element	Area	Drainage	Weighted	Total	Total	Peak	Time			
ID		Node ID	Curve Number	Precipitation	Runoff	Runoff	of Concentration	EXISTING 10-Y Element		RM SUBBASI Drain
	(ha)			(mm)	(mm)	(cms)	(days hh:mm:ss)			N 1
PR-BUILDING	0.32	OUT-STORM	98.00	140.28	134.24	0.05295	0 00:05:00	ID		Node
PR-IMPERMEABLE	0.28	OUT-STORM	98.00	140.28	134.24	0.04616	0 00:05:00			
PR-LANDSCAPE1	0.01	OUT-STORM	74.00	140.28	70.10	0.00085	0 00:05:00		(1)	
PR-LANDSCAPE2	0.04	OUT-STORM	74.00	140.28	70.74	0.00396	0 00:05:00		(ha)	
PR-LANDSCAPE3	0.06	OUT-STORM	74.00	140.28	70.76	0.00566	0 00:05:00	EX-ASPHALT	0.69	OUT-STO
PR-LANDSCAPE4	0.03	OUT-STORM	74.00	140.28	70.69	0.00312	0 00:05:00	EX-BUILDING	0.26	OUT-STO
PR-LANDSCAPE5	0.08	OUT-STORM	74.00	140.28	70.79	0.00736	0 00:05:00			
PR-LANDSCAPE6	0.12	OUT-STORM	74.00	140.28	70.79	0.01161	0 00:05:00			Т

SUBBASINS					
-	-				SITE SITE
Node ID		cipitation Runoff Runo	off of Concentration	EXISTING 5-YEAR STORM SUBBASINS Element Area Drainage Weighted Total Total Peak Time	
		(mm) (mm) (cn	ns) (days hh:mm:ss)		
OUT-STORM	98.00 98.00			Number Curve Precipitation Runon Runon Concentration	FIRST LAKE DRIVE
OUT-STORM	74.00		0 00:05:00	(ha) (mm) (mm) (cms) (davs hh:mm:ss)	
OUT-STORM OUT-STORM				EX-ASPHALT 0.69 OUT-STORM 98.00 111.15 105.16 0.08977 0 00:05:00	NOTES:
OUT-STORM	74.00	111.15 47.57 0.001	198 0 00:05:00	EX-BUILDING 0.26 OUT-STORM 98.00 111.15 105.16 0.03398 0 00:05:00	1. ALL MEASUREMENTS SHOWN ARE IN METRIC UNITS OF MEASURE.
OUT-STORM OUT-STORM	74.00 74.00			TOTAL EXISTING PEAK FLOW = 0.12375	2. THIS IS NOT A LEGAL BOUNDARY SURVEY, BOUNDARIES SHOWN HEF ARE APPROXIMATE, DERIVED FROM PROPERTY ONLINE MAPPING/PL
TOTAL D			260		OF SURVEY AND FIELD RECONNAISSANCE BY CIVIL ENGINEERING TECHNICIAN. BOUNDARIES ARE SUBJECT TO A LEGAL FIELD SURVEY
					 A LICENSED NSLS, AND A LEGAL SURVEY MAY CAUSE OFFSETS AND BOUNDARIES TO DIFFER FROM WHAT IS SHOWN HEREIN. 3. ALL WORK MUST CONFORM TO HALIFAX WATER AND HALIFAX REGIONAL MUNICIPALITY STANDARDS AND SPECIFICATIONS (LATEST EDITION).
SUBBASINS	v. • • • • •				
Drainage W	leighted	Total Total Pe	ak lime		
Node ID		cipitation Runoff Runo		EXISTING 10-YEAR STORM SUBBASINS	
				Element Area Drainage Weighted Total Total Peak Time	
OUT-STORM	98.00			ID Node ID Curve Precipitation Runoff Runoff of	
OUT-STORM	98.00 74.00			Number	
OUT-STORM	74.00	140.28 70.74 0.003	396 0 00:05:00	(ha) (mm) (mm) (cms) (days hh:mm:ss)	
OUT-STORM OUT-STORM	74.00 74.00			EX-ASTRALI 0.09 001-STORM 98.00 140.28 134.24 0.11383 0 00.05.00 EX-BUILDING 0.26 OUT-STORM 98.00 140.28 134.24 0.04276 0 00:05:00	
OUT-STORM	74.00	140.28 70.79 0.007	736 0 00:05:00	TOTAL EXISTING PEAK FLOW = 0.15659	
SUBBASINS Drainage W	/eighted	Total Total Pea	ak Time		
Node ID		cipitation Runoff Runc		EXISTING 25-YEAR STORM SUBBASINS	
ļ	Number		Concentration	Element Area Drainage Weighted Total Total Peak Time	
	08.00			ID Node ID Curve Precipitation Runoff Runoff of	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
OUT-STORM	98.00 98.00			Number Concentration	2020 (SSA) FROM AUTOCAD CIVIL 3D.
OUT-STORM OUT-STORM	74.00 74.00			(ha) (mm) (mm) (cms) (days hh:mm:ss)	THE STORM WATER CALCULATIONS WERE BASED ON THE SOIL CONSERVATION SERVICE METHOD (SCS TR-55) RUNOFF METHODOLOGY
OUT-STORM	74.00	177.16 102.06 0.0082	0 00:05:00	EX-ASPHALT 0.69 OUT-STORM 98.00 177.16 171.09 0.14413 0 00:05:00 EX-BUILDING 0.26 OUT-STORM 98.00 177.16 171.09 0.05380 0 00:05:00	USING THE SYNTHETIC DESIGN STORM EVENT COMMONLY REFERRED TO THE CHICAGO STORM. THE RAIN FALL AMOUNTS USED IN THE ANALYSIS &
OUT-STORM OUT-STORM	74.00 74.00				MODELING ARE AS FOLLOWS & WERE OBTAINED FROM ENVIRONMENT CANADA RAIN FALL DATABASE.
OUT-STORM	74.00	177.16 102.08 0.0169	99 0 00:05:00	TOTAL EXISTING PEAK FLOW = 0.19793	1:5 = 111.8mm OF RAIN FALL OVER 24HR PERIOD 1:10 =141.1mm OF RAIN FALL OVER 24HR PERIOD 1:25 = 178.2mm OF RAIN FALL OVER 24HR PERIOD
					1:50 = 205.9mm OF RAIN FALL OVER 24HR PERIOD 1:100 = 232.9mm OF RAIN FALL OVER 24HR PERIOD
SUBBASINS					
Drainage W	eighted	Total Total Pe	ak Time		
Node ID		cipitation Runoff Runc	off of Concentration	EXISTING 50-YEAR STORM SUBBASINS	1 01/12/2024 ISSUED FOR DEVELOPMENT REVIEW No. MM/DD/YYYY Revision Description
		(mm) (mm) (cn	ns) (days hh:mm:ss)		
OUT-STORM	98.00	204.70 198.60 0.077	0 00:05:00	ID Node ID Curve Precipitation Runoff Runoff of Number Concentration	
OUT-STORM	98.00 74.00	_			
OUT-STORM OUT-STORM	74.00 74.00	_		EX-ASPHALT 0.69 OUT-STORM 98.00 204.70 198.60 0.16650 0 00:05:00	ENGINEERING LAND SURVEYING
OUT-STORM	74.00	204.70 126.31 0.005	666 0 00:05:00	EX-BUILDING 0.26 OUT-STORM 98.00 204.70 198.60 0.06230 0 00:05:00	Seal
OUT-STORM OUT-STORM	74.00 74.00	_		TOTAL EXISTING PEAK FLOW = 0.22880	THE PROFESSION AL
					HOLE OF NONA SOLIT
/ SUBBASINS	ve: the d		- I Tur		SCALE: 1:500
-	-				0m 10m 20m 30m 40m 50m
			Concentration	EXISTING 100-YEAR STORM SUBBASINS Element Area Drainage Weighted Total Total Peak Time	Horizontal Vertical Plot 1:500 N/A ARCH D (24"x36
	00.5-			ID Node ID Curve Precipitation Runoff Runoff of	70 FIRST LAKE DRIVE
OUT-STORM OUT-STORM	98.00 98.00	231.54 225.43 0.088 231.54 225.43 0.076		Number Concentration	
OUT-STORM	74.00	231.54 149.76 0.001	0 00:05:00	(ha) (mm) (mm) (cms) (days hh:mm:ss)	PID # 00362442
OUT-STORM	74.00 74.00	231.54 150.65 0.008 231.54 150.70 0.012		EX-ASPHALT 0.69 OUT-STORM 98.00 231.54 225.43 0.18859 0 00:05:00	Title
OUT-STORM		231.54 150.62 0.006	680 0 00:05:00	EX-BUILDING 0.26 OUT-STORM 98.00 231.54 225.43 0.07023 0 00:05:00	
OUT-STORM	74.00				CONCEPTUAL STORMWATER ANALYSIS
	74.00 74.00 74.00	231.54 150.72 0.016 231.54 150.72 0.025		TOTAL EXISTING PEAK FLOW = 0.25882	CONCEPTORESTORNWATER ANALISIS
OUT-STORM OUT-STORM OUT-STORM	74.00 74.00	231.54 150.72 0.016 231.54 150.72 0.025	520 0 00:05:00	TOTAL EXISTING PEAK FLOW = 0.25882	
OUT-STORM OUT-STORM OUT-STORM TOTAL PF	74.00	231.54 150.72 0.016 231.54 150.72 0.025 AK FLOW = 0.235	520 0 00:05:00 561	TOTAL EXISTING PEAK FLOW = 0.25882	Project No. Drawn Sheet 240112-96 E.FRY 1 of 2 Ref. Engineer Plan No.
	Drainage W Node ID Node ID OUT-STORM OUT-STORM OUT-STORM OU	DrainageWeightedPressureNode IDCurvePressureOUT-STORM98.0098.00OUT-STORM74.0098.00OUT-STORM74.0098.00OUT-STORM74.0098.00OUT-STORM74.0098.00OUT-STORM98.0098.00OUT-STORM98.0098.00OUT-STORM98.0098.00OUT-STORM98.0098.00OUT-STORM74.0098.00 </td <td>Drainage Weighted Total Rund Rund Node ID Curve Precipitation Rund 0.00000000000000000000000000000000000</td> <td>DrainegeWeightedTotalTotalPeakTimeNote ID NumberNumberNumberNumberNumberNumberNumberOUT-STORM98.00111.1510.51.00.035.000.005.00OUT-STORM74.00111.1547.520.003880.005.00OUT-STORM74.00111.1547.520.003880.005.00OUT-STORM74.00111.1547.520.003880.005.00OUT-STORM74.00111.1547.520.003880.005.00OUT-STORM74.00111.1547.520.003880.005.00OUT-STORM74.00111.1547.520.003880.005.00OUT-STORM74.00111.1547.520.003880.005.00OUT-STORM74.00111.1547.520.003880.005.00OUT-STORM74.0010.2870.740.003950.005.00OUT-STORM74.0010.2870.740.003850.005.00OUT-STORM74.0010.2870.740.003850.005.00OUT-STORM74.0010.2870.740.003850.005.00OUT-STORM74.0010.2870.740.003850.005.00OUT-STORM74.0010.2870.740.003850.005.00OUT-STORM74.0010.2870.740.003850.005.00OUT-STORM74.0010.2870.7410.280.00312OUT-STORM74.0010.2870.7410.2</td> <td></td>	Drainage Weighted Total Rund Rund Node ID Curve Precipitation Rund 0.00000000000000000000000000000000000	DrainegeWeightedTotalTotalPeakTimeNote ID NumberNumberNumberNumberNumberNumberNumberOUT-STORM98.00111.1510.51.00.035.000.005.00OUT-STORM74.00111.1547.520.003880.005.00OUT-STORM74.00111.1547.520.003880.005.00OUT-STORM74.00111.1547.520.003880.005.00OUT-STORM74.00111.1547.520.003880.005.00OUT-STORM74.00111.1547.520.003880.005.00OUT-STORM74.00111.1547.520.003880.005.00OUT-STORM74.00111.1547.520.003880.005.00OUT-STORM74.00111.1547.520.003880.005.00OUT-STORM74.0010.2870.740.003950.005.00OUT-STORM74.0010.2870.740.003850.005.00OUT-STORM74.0010.2870.740.003850.005.00OUT-STORM74.0010.2870.740.003850.005.00OUT-STORM74.0010.2870.740.003850.005.00OUT-STORM74.0010.2870.740.003850.005.00OUT-STORM74.0010.2870.740.003850.005.00OUT-STORM74.0010.2870.7410.280.00312OUT-STORM74.0010.2870.7410.2	

				KEYPLAN
PROPOSED 5-YEAR STORM Element Area	SUBBASINS Drainage Weighted	Total Total Peak Time		SITE SITE
ID		Precipitation Runoff Runoff of	EXISTING 5-YEAR STORM SUBBASINS	
	Number	Concentration	Element Area Drainage Weighted Total Total Peak Time	
(ha) PR-BUILDING 0.32	OUT-STORM 98.00	(mm) (mm) (cms) (days hh:mm:ss) 111.15 105.16 0.04191 0 00:05:00	ID Node ID Curve Precipitation Runoff Runoff of Number Concentration	FIRST LAKE DRIVE
PR-IMPERMEABLE 0.28 PR-LANDSCAPE1 0.01	OUT-STORM 98.00 OUT-STORM 74.00	111.15105.160.03653000:05:00111.1547.270.00057000:05:00		BI
PR-LANDSCAPE2 0.04 PR-LANDSCAPE3 0.06	OUT-STORM 74.00 OUT-STORM 74.00	111.1547.630.00255000:05:00111.1547.650.00368000:05:00	(ha) (mm) (mm) (cms) (days hh:mm:ss) EX-ASPHALT 0.69 OUT-STORM 98.00 111.15 105.16 0.08977 0 00:05:00	NOTES:
PR-LANDSCAPE4 0.03 PR-LANDSCAPE5 0.08	OUT-STORM 74.00 OUT-STORM 74.00	111.1547.570.00198000:05:00111.1547.650.00481000:05:00	EX-BUILDING 0.26 OUT-STORM 98.00 111.15 105.16 0.03398 0 00:05:00	1. ALL MEASUREMENTS SHOWN ARE IN METRIC UNITS OF MEASURE.
PR-LANDSCAPES 0.08 PR-LANDSCAPE6 0.12	OUT-STORM 74.00	111.15 47.68 0.00765 0 00:05:00	TOTAL EXISTING PEAK FLOW = 0.12375	2. THIS IS NOT A LEGAL BOUNDARY SURVEY, BOUNDARIES SHOWN HERE ARE APPROXIMATE, DERIVED FROM PROPERTY ONLINE MAPPING/PLAN OF SURVEY AND FIELD RECONNAISSANCE BY CIVIL ENGINEERING
	TOTAL PROPOSED P			TECHNICIAN. BOUNDARIES ARE SUBJECT TO A LEGAL FIELD SURVEY BY A LICENSED NSLS, AND A LEGAL SURVEY MAY CAUSE OFFSETS AND
	TOTAL EXISTING P	PEAK FLOW = 0.12375		BOUNDARIES TO DIFFER FROM WHAT IS SHOWN HEREIN. 3. ALL WORK MUST CONFORM TO HALIFAX WATER AND HALIFAX
				REGIONAL MUNICIPALITY STANDARDS AND SPECIFICATIONS (LATEST EDITION).
PROPOSED 10-YEAR STORN Element Area	/ SUBBASINS Drainage Weighted	Total Total Peak Time		
ID		Precipitation Runoff Runoff of		
	Number	Concentration	EXISTING 10-YEAR STORM SUBBASINS Element Area Drainage Weighted Total Total Peak Time	
(ha) PR-BUILDING 0.32	OUT-STORM 98.00	(mm) (mm) (cms) (days hh:mm:ss) 140.28 134.24 0.05295 0 00:05:00	ID Node ID Curve Precipitation Runoff Runoff of	
R-IMPERMEABLE 0.28	OUT-STORM 98.00	140.28 134.24 0.04616 0 00:05:00	Number Concentration	
PR-LANDSCAPE1 0.01 PR-LANDSCAPE2 0.04	OUT-STORM 74.00 OUT-STORM 74.00	140.2870.100.00085000:05:00140.2870.740.00396000:05:00	(ha) (mm) (mm) (cms) (days hh:mm:ss) EX-ASPHALT 0.69 OUT-STORM 98.00 140.28 134.24 0.11383 0 00:05:00	
PR-LANDSCAPE3 0.06 PR-LANDSCAPE4 0.03	OUT-STORM 74.00 OUT-STORM 74.00	140.2870.760.00566000:05:00140.2870.690.00312000:05:00	EX-BUILDING 0.26 OUT-STORM 98.00 140.28 134.24 0.04276 0 00:05:00	
PR-LANDSCAPE5 0.08 PR-LANDSCAPE6 0.12	OUT-STORM 74.00 OUT-STORM 74.00	140.2870.790.00736000:05:00140.2870.790.01161000:05:00	TOTAL EXISTING PEAK FLOW = 0.15659	
	TOTAL PROPOSED P			
	TOTAL EXISTING P	PEAK FLOW = 0.15659		
ROPOSED 25-YEAR STORM	1 SUBBASINS			
Element Area	Drainage Weighted	Total Total Peak Time		
ID	Node ID Curve P Number	Precipitation Runoff Runoff of Concentration	EXISTING 25-YEAR STORM SUBBASINS Element Area Drainage Weighted Total Total Peak Time	
(ha)		(mm) (mm) (cms) (days hh:mm:ss)	ID Node ID Curve Precipitation Runoff Runoff of	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
PR-BUILDING 0.32 R-IMPERMEABLE 0.28	OUT-STORM 98.00 OUT-STORM 98.00	177.16171.090.06711000:05:00177.16171.090.05862000:05:00	Number Concentration	2020 (SSA) FROM AUTOCAD CIVIL 3D.
PR-LANDSCAPE1 0.01 PR-LANDSCAPE2 0.04	OUT-STORM 74.00 OUT-STORM 74.00	177.16101.300.00142000:05:00177.16102.010.00566000:05:00	(ha) (mm) (mm) (cms) (days hh:mm:ss)	THE STORM WATER CALCULATIONS WERE BASED ON THE SOIL CONSERVATION SERVICE METHOD (SCS TR-55) RUNOFF METHODOLOGY
PR-LANDSCAPE3 0.06 PR-LANDSCAPE4 0.03	OUT-STORM 74.00 OUT-STORM 74.00	177.16102.060.00821000:05:00177.16101.980.00453000:05:00	EX-ASPHALT0.69OUT-STORM98.00177.16171.090.14413000:05:00EX-BUILDING0.26OUT-STORM98.00177.16171.090.05380000:05:00	USING THE SYNTHETIC DESIGN STORM EVENT COMMONLY REFERRED TO AS THE CHICAGO STORM. THE RAIN FALL AMOUNTS USED IN THE ANALYSIS &
PR-LANDSCAPE5 0.08	OUT-STORM 74.00	177.16 102.08 0.01104 0 00:05:00	TOTAL EXISTING PEAK FLOW = 0.19793	MODELING ARE AS FOLLOWS & WERE OBTAINED FROM ENVIRONMENT CANADA RAIN FALL DATABASE. 1:5 = 111.8mm OF RAIN FALL OVER 24HR PERIOD
PR-LANDSCAPE6 0.12	OUT-STORM 74.00	177.16 102.08 0.01699 0 00:05:00		1:10 =141.1mm OF RAIN FALL OVER 24HR PERIOD 1:25 = 178.2mm OF RAIN FALL OVER 24HR PERIOD
	TOTAL PROPOSED PI TOTAL EXISTING PI			1:50 = 205.9mm OF RAIN FALL OVER 24HR PERIOD 1:100 = 232.9mm OF RAIN FALL OVER 24HR PERIOD
ROPOSED 50-YEAR STORM				
Element Area	Drainage Weighted	Total Total Peak Time		
ID	Node ID Curve P Number	Precipitation Runoff Runoff of	EXISTING 50-YEAR STORM SUBBASINS	1 01/12/2024 ISSUED FOR DEVELOPMENT REVIEW EF No. MM/DD/YYYY Revision Description By
		Concentration	Element Area Drainage Weighted Total Total Peak Time	
(ha)		Concentration (mm) (mm) (cms) (days hh:mm:ss)		
(ha) PR-BUILDING 0.32	OUT-STORM 98.00	(mm) (mm) (cms) (days hh:mm:ss) 204.70 198.60 0.07759 0 00:05:00	ID Node ID Curve Precipitation Runoff Runoff Concentration	
PR-BUILDING 0.32 R-IMPERMEABLE 0.28 PR-LANDSCAPE1 0.01	OUT-STORM 98.00 OUT-STORM 98.00 OUT-STORM 74.00	(mm)(cms)(days hh:mm:ss)204.70198.600.07759000:05:00204.70198.600.06768000:05:00204.70125.500.00170000:05:00	ID Node ID Curve Precipitation Runoff Runoff of Number Concentration	ABLE
PR-BUILDING 0.32 R-IMPERMEABLE 0.28 PR-LANDSCAPE1 0.01 PR-LANDSCAPE2 0.04	OUT-STORM 98.00 OUT-STORM 98.00	(mm) (mm) (cms) (days hh:mm:ss) 204.70 198.60 0.07759 0 00:05:00 204.70 198.60 0.06768 0 00:05:00	ID Node ID Curve Precipitation Runoff Runoff of Number Concentration (ha) (mm) (cms) (days hh:mm:ss) EX-ASPHALT 0.69 OUT-STORM 98.00 204.70 198.60 0.16650 0 00:05:00	ENGINEERING LAND SURVEYING
PR-BUILDING0.32R-IMPERMEABLE0.28PR-LANDSCAPE10.01PR-LANDSCAPE20.04PR-LANDSCAPE30.06PR-LANDSCAPE40.03	OUT-STORM98.00OUT-STORM98.00OUT-STORM74.00OUT-STORM74.00OUT-STORM74.00OUT-STORM74.00	(mm)(cms)(days hh:mm:ss)204.70198.600.07759000:05:00204.70198.600.06768000:05:00204.70125.500.00170000:05:00204.70126.370.00708000:05:00204.70126.420.01019000:05:00204.70126.310.00566000:05:00	ID Node ID Curve Precipitation Runoff Runoff of Number Concentration (ha) (mm) (cms) (days hh:mm:ss) EX-ASPHALT 0.69 OUT-STORM 98.00 204.70 198.60 0.16650 0 00:05:00 EX-BUILDING 0.26 OUT-STORM 98.00 204.70 198.60 0.06230 0 00:05:00	Seal
PR-BUILDING0.32PR-IMPERMEABLE0.28PR-LANDSCAPE10.01PR-LANDSCAPE20.04PR-LANDSCAPE30.06PR-LANDSCAPE40.03PR-LANDSCAPE50.08	OUT-STORM98.00OUT-STORM98.00OUT-STORM74.00OUT-STORM74.00OUT-STORM74.00	(mm)(cms)(days hh:mm:ss)204.70198.600.07759000:05:00204.70198.600.06768000:05:00204.70125.500.00170000:05:00204.70126.370.00708000:05:00204.70126.420.01019000:05:00	ID Node ID Curve Precipitation Runoff Runoff of Number Concentration (ha) (mm) (cms) (days hh:mm:ss) EX-ASPHALT 0.69 OUT-STORM 98.00 204.70 198.60 0.16650 0 00:05:00	Seal
PR-BUILDING0.32PR-IMPERMEABLE0.28PR-LANDSCAPE10.01PR-LANDSCAPE20.04PR-LANDSCAPE30.06PR-LANDSCAPE40.03PR-LANDSCAPE50.08	OUT-STORM 98.00 OUT-STORM 98.00 OUT-STORM 74.00	(mm)(cms)(days hh:mm:ss)204.70198.600.07759000:05:00204.70198.600.06768000:05:00204.70125.500.00170000:05:00204.70126.370.00708000:05:00204.70126.420.01019000:05:00204.70126.310.00566000:05:00204.70126.420.01359000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00	ID Node ID Curve Precipitation Runoff Runoff of Number Concentration (ha) (mm) (cms) (days hh:mm:ss) EX-ASPHALT 0.69 OUT-STORM 98.00 204.70 198.60 0.16650 0 00:05:00 EX-BUILDING 0.26 OUT-STORM 98.00 204.70 198.60 0.06230 0 00:05:00	Seal
PR-BUILDING0.32PR-IMPERMEABLE0.28PR-LANDSCAPE10.01PR-LANDSCAPE20.04PR-LANDSCAPE30.06PR-LANDSCAPE40.03PR-LANDSCAPE50.08	OUT-STORM98.00OUT-STORM98.00OUT-STORM74.00OUT-STORM74.00OUT-STORM74.00OUT-STORM74.00OUT-STORM74.00OUT-STORM74.00OUT-STORM74.00	(mm)(cms)(days hh:mm:ss)204.70198.600.07759000:05:00204.70198.600.06768000:05:00204.70125.500.00170000:05:00204.70126.370.00708000:05:00204.70126.420.01019000:05:00204.70126.310.00566000:05:00204.70126.420.01359000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00	ID Node ID Curve Precipitation Runoff Runoff of Number Concentration (ha) (mm) (cms) (days hh:mm:ss) EX-ASPHALT 0.69 OUT-STORM 98.00 204.70 198.60 0.16650 0 00:05:00 EX-BUILDING 0.26 OUT-STORM 98.00 204.70 198.60 0.06230 0 00:05:00	Seal
PR-BUILDING 0.32 PR-IMPERMEABLE 0.28 PR-LANDSCAPE1 0.01 PR-LANDSCAPE2 0.04 PR-LANDSCAPE3 0.06 PR-LANDSCAPE4 0.03 PR-LANDSCAPE5 0.08 PR-LANDSCAPE6 0.12	OUT-STORM 98.00 OUT-STORM 98.00 OUT-STORM 98.00 OUT-STORM 74.00	(mm)(cms)(days hh:mm:ss)204.70198.600.07759000:05:00204.70198.600.06768000:05:00204.70125.500.00170000:05:00204.70126.370.00708000:05:00204.70126.420.01019000:05:00204.70126.310.00566000:05:00204.70126.420.01359000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.0209600204.70126.440.0209600204.701	ID Node ID Curve Precipitation Runoff Runoff of Number Concentration (ha) (mm) (cms) (days hh:mm:ss) EX-ASPHALT 0.69 OUT-STORM 98.00 204.70 198.60 0.16650 0 00:05:00 EX-BUILDING 0.26 OUT-STORM 98.00 204.70 198.60 0.06230 0 00:05:00	Seal
PR-BUILDING 0.32 PR-IMPERMEABLE 0.28 PR-LANDSCAPE1 0.01 PR-LANDSCAPE2 0.04 PR-LANDSCAPE3 0.06 PR-LANDSCAPE4 0.03 PR-LANDSCAPE5 0.08 PR-LANDSCAPE5 0.12	OUT-STORM98.00OUT-STORM98.00OUT-STORM74.00OUT-STORM74.00OUT-STORM74.00OUT-STORM74.00OUT-STORM74.00OUT-STORM74.00OUT-STORM74.00OUT-STORM74.00SUBBASINSDrainageWeighted	(mm)(mm)(cms)(days hh:mm:ss)204.70198.600.07759000:05:00204.70198.600.06768000:05:00204.70125.500.00170000:05:00204.70126.370.00708000:05:00204.70126.420.01019000:05:00204.70126.420.01359000:05:00204.70126.420.01359000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.0209600204.70126.440.0209600204.70126.440.0209600204.70126.44000204.70126.44000204.70126.44000205.700000206.700000206	ID Node ID Curve Precipitation Runoff Runoff of Number Concentration (ha) (mm) (cms) (days hh:mm:ss) EX-ASPHALT 0.69 OUT-STORM 98.00 204.70 198.60 0.16650 0 00:05:00 EX-BUILDING 0.26 OUT-STORM 98.00 204.70 198.60 0.06230 0 00:05:00	Seal Original Signed
PR-BUILDING 0.32 PR-IMPERMEABLE 0.28 PR-LANDSCAPE1 0.01 PR-LANDSCAPE2 0.04 PR-LANDSCAPE3 0.06 PR-LANDSCAPE4 0.03 PR-LANDSCAPE5 0.08 PR-LANDSCAPE5 0.12	OUT-STORM98.00OUT-STORM98.00OUT-STORM74.00OUT-STORM74.00OUT-STORM74.00OUT-STORM74.00OUT-STORM74.00OUT-STORM74.00OUT-STORM74.00OUT-STORM74.00SUBBASINSDrainageWeighted	(mm)(cms)(days hh:mm:ss)204.70198.600.07759000:05:00204.70198.600.06768000:05:00204.70125.500.00170000:05:00204.70126.370.00708000:05:00204.70126.420.01019000:05:00204.70126.310.00566000:05:00204.70126.420.01359000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.02096000:05:00204.70126.440.0209600204.70126.440.0209600204.701	ID Node ID Curve Precipitation Runoff Runoff of Number Concentration (ha) (mm) (cms) (days hh:mm:ss) EX-ASPHALT 0.69 OUT-STORM 98.00 204.70 198.60 0.16650 0 00:05:00 EX-BUILDING 0.26 OUT-STORM 98.00 204.70 198.60 0.06230 0 00:05:00	Seal Original Signed UMATE 01/12/2024 Original Signed UMATE 01/12/2024 4599 UMATE 01/12/2024 SCALE: 1:500 Om 10m 20m 30m 40m 50m Horizontal 1:500 Vertical N/A Plot ARCH D (24*x36")
PR-BUILDING 0.32 PR-IMPERMEABLE 0.28 PR-LANDSCAPE1 0.01 PR-LANDSCAPE2 0.04 PR-LANDSCAPE3 0.06 PR-LANDSCAPE3 0.08 PR-LANDSCAPE5 0.08 PR-LANDSCAPE6 0.12 PROPOSED 100-YEAR STORM Element Area	OUT-STORM98.00OUT-STORM98.00OUT-STORM74.00DUT-STORM74.00OUT-STORM74.00OUT-STORM74.00OUT-STORM74.00OUT-STORM74.00OUT-STORM74.00OUT-STORM74.00OUT-STORM74.00OUT-STORM74.00OUT-STORM74.00OUT-STORM74.00OUT-STORM74.00OUT-STORM74.00OUT-STORM74.	(mm) (mm) (cms) (days hh:mm:ss) 204.70 198.60 0.07759 0 00:05:00 204.70 198.60 0.06768 0 00:05:00 204.70 125.50 0.00170 0 00:05:00 204.70 126.37 0.00708 0 00:05:00 204.70 126.42 0.01019 0 00:05:00 204.70 126.42 0.01359 0 00:05:00 204.70 126.42 0.01359 0 00:05:00 204.70 126.44 0.02096 0 00:05:00 204.70 126.44 0.02096 0 00:05:00 204.70 126.44 0.02096 0 00:05:00 204.70 126.44 0.20445 0 0 0:0:05:00 PEAK FLOW = 0.20445 0.22880 0 0 0 0 Yeak FLOW = 0.20445 0 0 0 0 0 0 Precipitation Runoff Peak Time Minitian Minitian 0 0 0 0	ID Node ID Curve Precipitation Runoff Runoff of (ha) (mm) (mm) (cms) (days hh:mm:ss) EX-ASPHALT 0.69 OUT-STORM 98.00 204.70 198.60 0.16650 0 00:05:00 EX-BUILDING 0.26 OUT-STORM 98.00 204.70 198.60 0.06230 0 00:05:00 TOTAL EXISTING PEAK FLOW = 0.22880 Image: Content of the store o	Seal Original Signed UT2/2024 Original Signed UT2/2024 Original Signed UT2/2024 UT2/2024 OF NON SCALE: 1:500 Om 10m 20m 30m 40m 50m Horizontal 1:500 Project
PR-BUILDING 0.32 PR-IMPERMEABLE 0.28 PR-LANDSCAPE1 0.01 PR-LANDSCAPE2 0.04 PR-LANDSCAPE3 0.06 PR-LANDSCAPE3 0.03 PR-LANDSCAPE5 0.08 PR-LANDSCAPE5 0.12 PR-LANDSCAPE6 0.12	OUT-STORM98.00OUT-STORM98.00OUT-STORM74.	(mm) (mm) (cms) (days hh:mm:ss) 204.70 198.60 0.07759 0.00:05:00 204.70 198.60 0.06768 0.00:05:00 204.70 125.50 0.00170 0.00:05:00 204.70 126.37 0.00708 0.00:05:00 204.70 126.42 0.01019 0.00:05:00 204.70 126.31 0.00566 0.00:05:00 204.70 126.42 0.01359 0.00:05:00 204.70 126.44 0.02096 0.00:05:00 204.70 126.44 0.02096 0.00:05:00 204.70 126.44 0.02096 0.00:05:00 PEAK FLOW = 0.20445 0.22880	ID Node ID Curve Precipitation Runoff Runoff of (ha) (ma) (mm) (mm) (cms) (days hh:mm:ss) EX-ASPHALT 0.69 OUT-STORM 98.00 204.70 198.60 0.16650 0.00:05:00 EX-BUILDING 0.26 OUT-STORM 98.00 204.70 198.60 0.06230 0.00:05:00 EX-BUILDING 0.26 OUT-STORM 98.00 204.70 198.60 0.06230 0.00:05:00 EX-BUILDING 0.26 OUT-STORM 98.00 204.70 198.60 0.06230 0.00:05:00 TOTAL EXISTING PEAK FLOW = 0.22880 Ement Area Drainage Weighted Total Total Peak Time	Seal Original Signed UT22024 Original Signed UT22024 Original Signed UT22024 Original Signed UT22024 UT2207
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PR-BUILDING 0.32 R-IMPERMEABLE 0.28 PR-LANDSCAPE1 0.01 PR-LANDSCAPE2 0.04 PR-LANDSCAPE3 0.06 PR-LANDSCAPE5 0.08 PR-LANDSCAPE5 0.12 ROPOSED 100-YEAR STORI Element Area ID PR-BUILDING 0.32 R-IMPERMEABLE 0.28 PR-LANDSCAPE1 0.01 PR-LANDSCAPE1 0.01 PR-LANDSCAPE3 0.06 PR-LANDSCAPE3 0.06 PR-LANDSCAPE4 0.03 PR-LANDSCAPE5 0.08	OUT-STORM 98.00 OUT-STORM 98.00 OUT-STORM 74.00 Node ID Curve Node ID Curve OUT-STORM 98.00 OUT-STORM 98.00 OUT-STORM 98.00 OUT-STORM 74.00	(mm) (mm) (cms) (days hh:mm:ss) 204.70 198.60 0.07759 0 00:05:00 204.70 125.50 0.00170 0 00:05:00 204.70 126.37 0.00708 0 00:05:00 204.70 126.42 0.01019 0 00:05:00 204.70 126.42 0.01359 0 00:05:00 204.70 126.42 0.01359 0 00:05:00 204.70 126.42 0.01359 0 00:05:00 204.70 126.42 0.01359 0 00:05:00 204.70 126.42 0.02045 0 0:0:05:00 204.70 126.42 0.20445 0 0:0:05:00 204.70 126.44 0.20880 Time PEAK FLOW = 0.22880 Concentration Precipitation Runoff Runoff of 215.4 225.43 0.07674 0 0:0:05:00 231.54 225.43 0.07674 0 0:0:05:00 231.54 150.70 0.01218	ID Node ID Curve Precipitation Runoff Runoff of EX-ASPHALT 0.69 OUT-STORM 98.00 204.70 198.60 0.16650 0 00:05:00 EX-ASPHALT 0.69 OUT-STORM 98.00 204.70 198.60 0.06230 0 00:05:00 EX-BUILDING 0.26 OUT-STORM 98.00 204.70 198.60 0.06230 0 00:05:00 EX-BUILDING 0.26 OUT-STORM 98.00 204.70 198.60 0.06230 0 00:05:00 EXISTING 100-YEAR STORM SUBBASINS Element Area Drainage Weighted Total Total Peak Time ID Node ID Curve Precipitation Runoff Runoff of ID Node ID Curve Precipitation Runoff Runoff of ID Node ID Curve Precipitation Runoff Runoff of ID Node ID Curve (mm) (mm) (ms) (days hh:mm:s) EX-ASPHALT 0.69 OUT-STORM 98.00 231.54 225.43	Seal Original Signed Original Signed 000000000000000000000000000000000000

PROPOSED 100-YEAR STORM SUBBASINS								
Element	Area	Drainage	Weighted	Total	Total	Peak	Time	
ID		Node ID	Curve	Precipitation	Runoff	Runoff	of	
			Number				Concentration	
	(ha)			(mm)	(mm)	(cms)	(days hh:mm:ss)	
PR-BUILDING	0.32	OUT-STORM	98.00	231.54	225.43	0.08807	0 00:05:00	
PR-IMPERMEABLE	0.28	OUT-STORM	98.00	231.54	225.43	0.07674	0 00:05:00	
PR-LANDSCAPE1	0.01	OUT-STORM	74.00	231.54	149.76	0.00198	0 00:05:00	
PR-LANDSCAPE2	0.04	OUT-STORM	74.00	231.54	150.65	0.00850	0 00:05:00	
PR-LANDSCAPE3	0.06	OUT-STORM	74.00	231.54	150.70	0.01218	0 00:05:00	
PR-LANDSCAPE4	0.03	OUT-STORM	74.00	231.54	150.62	0.00680	0 00:05:00	
PR-LANDSCAPE5	0.08	OUT-STORM	74.00	231.54	150.72	0.01614	0 00:05:00	
PR-LANDSCAPE6	0.12	OUT-STORM	74.00	231.54	150.72	0.02520	0 00:05:00	
	0.12		74.00	201.04	100.72	0.02020	00.00.00	

