

**Portland Street Development - Wastewater Sewer System Calculations  
Dartmouth, NS**

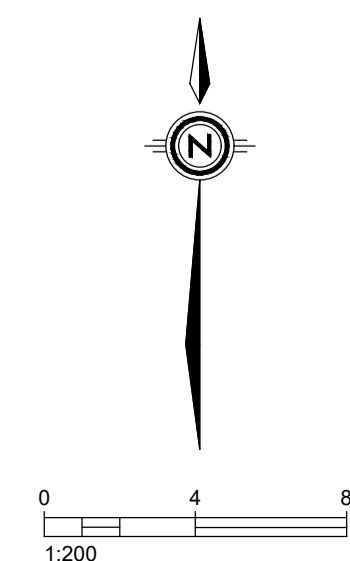
**PRE-DEVELOPMENT FLOWS**

N/A

**POST-DEVELOPMENT FLOWS**

Input Flow	Area (m <sup>2</sup> )	Area (acre)	Area (ha)	Density (p/unit*units)	Population	Average Dry Weather Flow Allowance (l/d/person)	Average Dry Weather Flow (l/d)	Peaking Factor	Peak Dry Weather Flow (l/d)	Tributary Area (ha)	Infiltration/Inflow Allowance (l/d/ha)	Infiltration/Inflow Flow (l/d)	Safety Factor	Peak Wet Weather Flow (l/d)	Peak Wet Weather Flow (l/s)	Peak Wet Weather Flow (USgpm)
Building 1	4556	1.125	0.456	2.25*86	194	300	58050	4.15	241095	0.46	24192	11022	1.25	315146	3.65	57.63

Pipe #	Location Street	From	To	From Invert	To Invert	Length (m)	Pipe Height (mm)	Pipe Width (mm)	Pipe Shape	Pipe Area (m <sup>2</sup> )	Wetted Perimeter (m)	Hydraulic Radius	Pipe Slope (%)	Manning 'n'	Pipe Material	Peak Wet Weather Flow (l/s)	Cum. Peak Wet Flow	Velocity (m/s)	Pipe Capacity (l/s)	% Full
1	Development	BLD 1	MH21925	37.8	37.40	10.00	150	150	Circ	0.018	0.471	0.038	4.00%	0.01	PVC	3.65	3.65	2.24	39.6	9.2%
2	N.Portland St	MH21925	MH21926	37.70	37.00	30.20	200	200	Circ	0.031	0.628	0.050	2.32%	0.01	PVC	0.00	3.65	2.07	64.9	5.6%



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