



KEY PLAN:

PROJECT SITE

BEDEVILLE ROAD  
 WINDGATE VILLAGE  
 BEDFORD  
 DARTMOUTH  
 HALIFAX  
 HALIFAX COUNTY

DRAINAGE AREA (PRE) [Symbol]

DRAINAGE AREA (POST) [Symbol]

FLOW ARROW (PRE) [Symbol]

FLOW ARROW (POST) [Symbol]

FLOW FROM POINT [Symbol X1]

FLOW TO POINT [Symbol A]

DRAINAGE AREA [Symbol A1]

**STORM DRAINAGE CRITERIA - SCS METHOD**

CURVE NUMBERS:  
 CN: WOODS = 73; R.O.W. = 92; WETLANDS = 45; ROOFS = 98  
 DEVELOPMENT PDS = 77 (2011 WPIREVISED)

PRE	FLOW TO	FROM POINT	AREAS CONTRIBUTING TO CALCULATE FLOW	AREA (Hectares)	PRELIMINARY ESTIMATED 10YR DESIGN EVENT FLOW (L/s)
A	(01)	A1, A2	11.25±	930	
B	(02)	B1, B2	55.41±	4600	
C	(03)	C1, C2	10.41±	790	
D	(04)	D1, D2, D3	33.62±	2280	
E	(05)	E1, E2	40.84±	2690	
F	(06)	F1	5.08±	730	

POST	FLOW TO	FROM POINT	AREAS CONTRIBUTING TO CALCULATE FLOW	AREA (Hectares)	PRELIMINARY ESTIMATED 10YR DESIGN EVENT FLOW (L/s)
A	(01)	A1, A2	10.79±	1150	
B	(02)	B1, B2, C1	62.00±	8250	
C	(03)	C2	4.76±	350	
D	(04)	D1, D2, D3	27.97±	4050	
E	(05)	E1, E2, E3, E4	44.86±	5950	
F	(06)	F1	5.08±	750	
G	(07)	G1	1.23±	250	

- NOTE:
1. SYNTHETIC DESIGN STORM DISTRIBUTIONS BASED ON HALIFAX RAINFALL DATA, OBTAINED FROM ENVIRONMENT CANADA (LATEST EDITION).  
 $24hr = 10yr = 151mm$
  2. 2m CONTOURS OBTAINED FROM NOVA SCOTIA PROVINCIAL MAPPING DATABASE.
  3. STORM DRAINAGE DISCHARGE LOCATIONS TO BE DIRECTED TO DISPERSION APRONS & VEGETATED AREAS BEFORE ENTERING NATURAL DRAINAGE CHANNELS OR WATER BODIES.
  4. CULVERT SIZES & DRAINAGE PATTERNS TO BE DETERMINED DURING DETAILED DESIGN AND ARE SUBJECT TO CHANGE AS REQUIRED.
  5. PRE/POST ANALYSIS ONLY CONSIDERS THE SUBJECT LANDS WITHIN WINDGATE VILLAGE. FINAL STORMWATER DESIGN TO BE COMPLETED DURING THE DESIGN PHASE OF THE DEVELOPMENT AND SHALL CONSIDER OFF-SITE CONTRIBUTIONS TO FLOW. FINAL DESIGN SHALL INCLUDE STORM WATER DESIGN REPORT FOR SUBDIVISION DEVELOPMENT.
  6. DITCHES SHALL BE DESIGNED TO CARRY THE 1:100 YEAR STORM.
  7. DRIVEWAY CULVERTS SHALL BE DESIGNED TO CARRY THE 1:10 YEAR STORM.
  8. CROSS CULVERTS SHALL BE DESIGNED TO CARRY THE 1:10 YEAR STORM.

REVISION:

NO.	DATE (YYYY/MM/DD)	DESCRIPTION
2	2020/03/12	REVISED & REISSUED FOR D.A.
1	2015/02/26	ISSUED FOR DEVELOPMENT AGREEMENT
0	2015/02/26	ISSUED FOR REVIEW

PROJECT NO: 141-24579-01  
 DATE: 2015/02/26  
 PROPOSAL SCALE: 1:3000  
 DESIGNED BY: K. O'LEARY, P. ENG.  
 DRAWN BY: C. LUTZ, CET  
 CHECKED BY: K. O'LEARY, P. ENG.

CLIENT: MARQUE INVESTMENTS LTD.

CLIENT REF. #  
 PROJECT: WINDGATE VILLAGE  
 OPEN SPACE DEVELOPMENT  
 BEAVERBANK, NS

TITLE: PRELIMINARY STORMWATER  
 MANAGEMENT PLAN  
 FOR DEVELOPMENT AGREEMENT

SHEET NUMBER: 1  
 SHEET # 1 OF 1

REVISED & REISSUED FOR D.A.  
 DATE: 2020/03/12