

KEY PLAN

LEGEND	PROPOSED	EXISTING
EDGE OF PAVEMENT	---	---
LOCATE	---	---
WATERMAIN & GATE VALVE	---	---
SANITARY PIPE & MANHOLE	---	---
STORM PIPE & MANHOLE	---	---
UTILITY LINES & POLE	---	---
STREET BOUNDARY	---	---
PROPERTY BOUNDARY	---	---
CASEWAY	---	---
CURB & DRIVEWAY CUT	---	---
CATCH BASIN	---	---
CATCH BASIN END CAP	---	---
CULVERT	---	---
FIRE HYDRANT	---	---
STREET TREE	---	---
PHONE PRESTAL	---	---
ROAD SIGN	---	---
URD BOX	---	---
FENCE	---	---



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REVISION:

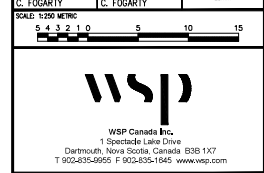
NO.	DATE	DESCRIPTION
0	2021/08/19	ISSUED FOR REVIEW

PROJECT NUMBER: 191-15461-00
DATE: 2021/08/19

ORIGINAL SCALE: HORIZONTAL: 1:250 VERTICAL: N/A
 IF THIS BAR IS NOT DRAWN TO SCALE, ADJUST TO MATCH PLANTING SCALE.

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APPROVED BY: C. FOGARTY

SCALE: 1:250 METRIC
 0 5 10 15
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



CLIENT:
zap

PROJECT:
 600 BEDFORD HIGHWAY
 HALIFAX, NS

TITLE:
 SERVICING SCHEMATIC

SHEET NUMBER: 1
SHEET: 1 OF 1
ISSUE: 0
DATE: 2021/08/19

SANITARY CALCULATIONS
RESIDENTIAL SANITARY CALCULATIONS
 PROPOSED MULTI-UNIT - 94 UNITS
 DENSITY = 2.25 PERSONS/UNIT
 POPULATION = 212 PEOPLE
 $Q(PEAK) = [1.25 * (p * M)] + b$
 $M = [(1+14/(4+19/1000)^{0.5}))]$ = 4.14
 $Q(PEAK) = [1.25 * (200 L/PERSON/DAY * 194 PEOPLE * 4.15)] + 8400 L/DAY$
 $Q(PEAK) = 3.31 L/s$
 LIMITING WASTEWATER PIPE BUILDING A - 150mm PVC DR35 SEWER @0.2%
 $Q(FULL) = 28 L/S > 3.91 L/s$

*CALCULATIONS BASED ON INFORMATION FROM THE HALIFAX WATER DESIGN AND CONSTRUCTION SPECIFICATIONS.

STORMWATER CALCULATIONS
SCS METHOD - BUILDING A

PRE-DEVELOPMENT CONDITIONS
 SITE DRAINAGE AREA = 6747 m² ±
 COMPOSITE 'CN' = 88
 PRE-DEVELOPMENT PEAK DISCHARGE = 115 L/s ± (5YR)
 PRE-DEVELOPMENT PEAK DISCHARGE = 162 L/s ± (10YR)
 PRE-DEVELOPMENT PEAK DISCHARGE = 153 L/s ± (25YR)
 PRE-DEVELOPMENT PEAK DISCHARGE = 170 L/s ± (50YR)
 PRE-DEVELOPMENT PEAK DISCHARGE = 203 L/s ± (100YR)

POST-DEVELOPMENT CONDITIONS
 SITE DRAINAGE AREA = 6747 m² ±
 COMPOSITE 'CN' = 88
 POST-DEVELOPMENT PEAK DISCHARGE = 115 L/s ± (5YR)
 POST-DEVELOPMENT PEAK DISCHARGE = 162 L/s ± (10YR)
 POST-DEVELOPMENT PEAK DISCHARGE = 153 L/s ± (25YR)
 POST-DEVELOPMENT PEAK DISCHARGE = 170 L/s ± (50YR)
 POST-DEVELOPMENT PEAK DISCHARGE = 203 L/s ± (100YR)

PRE-DEVELOPED STORMWATER SURFACE CONTAINS A LARGE PERCENTAGE OF HARDCAPE (EXISTING BUILDING AND ASPHALT PARKING) AND POST-DEVELOPED STORMWATER SURFACE CONTAINS A LARGE PERCENTAGE OF HARDCAPE (BUILDING AND ASPHALT). THE STORMWATER DISCHARGE SHOULD REMAIN THE SAME.