160401608 - Kanata West Block 29

ICD Table

Last updated on 2021-07-22 from PCSWMM model and drawings updated that same date

Area ID	CB Name	Diameter (mm)	Invert (m)	2-Year Head (m)	2-Year Flow (L/s)	100-Year Head (m)	100-Year Flow (L/s)
L103A	L103A-1	83	96.50	0.85	12.3	1.63	17.3
L103A	L103A-2	*CB L103A-1 and L103A-2 to be interconnected w single ICD at L103A-1					
L104A	L104A-1	83	96.54	0.91	12.8	1.54	16.8
L104A	L104A-2	83	96.54	0.91	12.8	1.54	16.8
L106A	L106A-1	152	96.55	0.84	40.2	1.54	55.6

KEY PLAN
N.T.S.

MAPLE GROVE ROAD

(ROAD ALLOWANCE BETWEEN THE ...

MVCA TOP OF BANK
BANK FULL / HIGH WATER MARK
TOPOGRAPHICAL SURVEY WATER'S EDGE
MVCA WATER'S EDGE

Top of Bank

REFER TO GEOTECHNICAL REPORT PGS398-1 DATED JULY 14, 2020 PREPARED BY PATERSON GROUP FOR POOLE CREEK SLOPE STABILITY ASSESSMENT.

5m TOE EROSION ALLOWANCE
GEOTECHNICAL LIMIT OF HAZARD LANDS
3m EROSION ACCESS ALLOWANCE
MVCA TOP OF VALLEY
TOPO SURVEY TOP OF VALLEY (APRIL 28, 2014)
MVCA FLOODPLAIN
MVCA MEANDER BELT

M-PLAN, BLOCK 31
OPEN SPACE

M-PLAN BLOCK 30 WALKWAY

MEDIUM DENSITY

M-PLAN BLOCK 30

PATHWAY WITH 1.0m BUFFER

BLOCK 29 PROPERTY LINE

AREA=524.0m²
DEPTH=0.30m
SPILL ELEV=98.22
100-YR FLOW ELEV=98.08
100-YR + 20% FLOW ELEV=98.11
VOLUME=52.4m³

AREA=715.4m²
DEPTH=0.28m
SPILL ELEV=98.21
100-YR FLOW ELEV=98.09
100-YR + 20% FLOW ELEV=98.14
VOLUME=66.8m³

AREA=218.3m²
DEPTH=0.20m
SPILL ELEV=98.20
100-YR FLOW ELEV=98.13
100-YR + 20% FLOW ELEV=98.16
VOLUME=14.6m³

STM 104 (1200Ø)
T/G=98.25
SE INV=95.56

1.2m-200mmØ CB LEAD @ 1.00%

CB 104A-1
T/G=97.92
NE INV=96.54

4.8m-200mmØ CB LEAD @ 1.00%

CB 104A-2
T/G=97.92
SW INV=96.54

38.7m-250mmØ SWK @ 0.50%

STM 103 (1200Ø)
T/G=98.21
SE INV=95.30
NW INV=95.37
SW INV=95.37

CB 106A-1
T/G=97.93
SE INV=96.55

3.6m-200mmØ CB LEAD @ 1.00%

STM 106 (1200Ø)
T/G=98.23
NE INV=95.62

50.1m-300mmØ STM @ 0.51%

6.0m-200mmØ CB LEAD @ 1.00%

CB 103A-2
T/G=98.00
SW INV=96.62

13.9m-375mmØ STM @ 0.50%

CB 103A-1
T/G=98.00
NE INV=96.50
NE INV=96.56

1.1m-200mmØ CB LEAD @ 1.00%

STM 102 (1200Ø)
T/G=98.10
SE INV=95.22
NW INV=95.22

13.6m-375mmØ SWK @ 0.50%

0.1m-375mmØ STM @ 0.50%

CONNECT EX. STM TO NEW MH

STM 101 (1200Ø)
T/G=98.17
NE INV=94.99
SW INV=94.99
NW INV=95.10

STM 101A (1200Ø)
T/G=98.12
SE INV=95.14
NW INV=95.15

BLOCK - 1
12 - UNITS
FF=100.24
TF=98.89
BIFE=97.04
USF=96.48
MUSF=96.34

BLOCK - 2
12 - UNITS
FF=99.96
TF=98.61
BIFE=96.76
USF=96.20
MUSF=96.19

BLOCK - 4
12 - UNITS
FF=98.72
TF=98.42
BIFE=96.77
USF=96.21
MUSF=96.18

BLOCK - 3
12 - UNITS
FF=98.50
TF=98.20
BIFE=96.75
USF=96.14
MUSF=96.14

ACCESSORY BLDG
FF=98.39
TF=98.54
USF=96.87
MAIL BOX

UNC-1 0.11 0.26
UNC-2 0.04 0.57
UNC-3 0.05 0.58
UNC-4 0.05 0.49
UNC-5 0.09 0.54
L104A 0.13 0.77
L106A 0.21 0.75
L103A 0.06 0.80

1.5m ASPH SWLK

T/P STM=96.33
T/P STM=96.05
T/P STM=96.06
T/P STM=96.14

BLOCK 29 PROPERTY LINE

EX. STM T/G=98.58 S INV=95.95 NE INV=95.87

EX. STM T/G=97.71 SE INV=95.32

EX. STM T/G=97.83 NW INV=95.19 SE INV=94.38 SW INV=94.89 NE INV=94.00

EX. 54.0m - 375mmØ PVC STM @ 0.25%

ROGER GRIFFITHS AVENUE

EX. 71.4m - 600mmØ CONC. STM @ 0.40%

EX. 51.3m - 675mmØ CONC. STM @ 0.25%

MAIZE STREET

EX. STM T/G=98.19 NE INV=95.01 SW INV=95.59

EXISTING SERVICING AND GRADING DETAILS SHOWN AS PER KANATA WEST 1st REGISTRATION DRAWINGS PROJECT 160401393 PREPARED BY STANTEC CONSULTING DATED OCTOBER 3, 2020. TO BE CONFIRMED PRIOR TO CONSTRUCTION.

CMB
B
SD
CSP
GLB
CNG
CNG STN

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2021/10/15 10:03 AM By: Johnson, Warren

ORIGINAL SHEET - ARCH D

Stantec

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Legend

- AREA ID / RUNOFF COEFFICIENT / STORM DRAINAGE AREA ha.
- STORM DRAINAGE BOUNDARY
- EXISTING/FUTURE STORM DRAINAGE BOUNDARY
- TYPICAL SERVICE LATERAL LOCATION
- MAXIMUM PONDING LIMITS
- PROPOSED STORM SEWER
- PROPOSED CATCHBASIN
- PROPOSED SUBDRAIN CATCHBASIN
- EXISTING STORM SEWER
- EXISTING CATCHBASIN
- CIRCULAR ORIFICE (SEE DWG SD-1)

3	REVISED AS PER CITY COMMENTS	WAJ	TKR	21.10.15
2	REVISED AS PER CITY COMMENTS	WAJ	AMP	21.07.22
1	ISSUED FOR REVIEW	WAJ	AMP	21.03.25
Revision		By	Appd.	YY.MM.DD

File Name: 160401608-D8.dwg	WAJ	AMP	WAJ	21.02.01
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Permit-Seal

LICENSED PROFESSIONAL ENGINEER
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100225159
2021-10-15
PROVINCE OF ONTARIO

Client/Project

RICHCRAFT GROUP OF COMPANIES

KANATA WEST BLOCK 29

OTTAWA, ON

Title

STORM DRAINAGE PLAN

Project No. 160401608

Scale 1:250 (0, 2.5, 7.5, 12.5m)

Drawing No. SD-1

Sheet 5 of 7

Revision 3

CITY FILE No. D07-12-21-0042

CITY PLAN No. 18439