EX1
0.004
0.90

ST. LAURENT BLVD

CONCRETE SIDEWALK

CONCRETE MEDIAN

STM 103
T/L=77.96
O/G SEPARATOR
AQUA-SWIRL CONCENTRATOR AS-6 BYP CW STD
OR AN APPROVED EQUIVALENT
N.INV=75.29
S.INV=75.29

STM 102 (1200)
T/L=78.01
W.INV=75.32
N.INV=75.30

STM 104 (1200)
T/L=78.52
S.INV=75.25
NW.INV=75.21

10.8m-500mmø CONC STM @ 0.20%

STM 105 (1200)
T/L=78.19
SE.INV=75.19
S.INV=75.19±
NW.INV=76.53
N.INV=75.16

10.2m-500mmø STM @ 0.20%

22.3m-500mmø CONC STM @ 0.20%

2.2m-500mmø CONC STM @ 0.4%

1.5m-300mmø PVC STM @ 1.0%

1.4m-300mmø PVC STM @ 1.0%

25.7m-500mmø CONC STM @ 0.20%

2.4m-150mmø PVC FOUNDATION DRAIN @ 1.0%(MIN)
BLDG. INV=75.23

6.6m-250mmø PVC CB LEAD @ 0.5%

78.35

CB 103
T/L=78.09
SE.INV=75.59
C/W LMF40 ICD
5-YEAR FLOW=1.7L/s
100-YEAR FLOW=1.9L/s
5-YEAR ELEV=78.13m
100-YEAR ELEV=78.32m
W.INV=77.01

C3
0.051
0.28

16.8m-250mmø HDPE SUBDRAIN @ 0.5%

CB'L' 103
T/L=78.09
E.INV=77.09

PONDING AREA=280.5m²
MAX. PONDING DEPTH=0.30m
V AVAILABLE=40.8m³
V 5-YEAR REQUIRED=4.5m³
5-YEAR MAX PONDING ELEV=78.13m
V 100-YEAR REQUIRED=23.4m³
100-YEAR MAX PONDING ELEV=78.32m

TRENCH DRAINS TO BE SPECIFIED AND ACCOMMODATED BY THE MECHANICAL SYSTEM

C1
0.090
0.79

32.4m-375mmø PVC STM @ 0.50%

PROP. BUILDING
FOUNDATION WALL TO BE INSTALLED AT A MINIMUM ELEVATION OF 0.15m ABOVE SURROUNDING GRADE AND WATERPROOFED

7.3m-150mmø PVC STM SERVICE @ 1.0%(MIN)
BLDG. INV=75.69

AREA DRAIN 103
T/L=77.82
DIRECTED TO STORAGE SYSTEM

BLDA
0.254
0.90

78.35

AREA DRAIN 104
T/L=77.90
DIRECTED TO STORAGE SYSTEM

PONDING AREA=62.0m²
MAX. PONDING DEPTH=0.10m
V AVAILABLE=2.2m³
5-YEAR MAX PONDING ELEV=75.75m
100-YEAR MAX PONDING ELEV=76.00m

OUTLINE OF UNDERGROUND PARKING

C2
0.175
0.76

UN1
0.047
0.46

CB'L' 101
T/L=77.90
E.INV=76.40

SMYTH ROAD

OTHELLO AVENUE

CB PER RMA PREPARED BY PARSONS

EXISTING CB TO BE RELOCATED PER RMA PREPARED BY PARSONS

EX2
0.003
0.90

PONDING AREA=65.5m²
MAX. PONDING DEPTH=0.08m
V AVAILABLE=1.9m³
5-YEAR MAX PONDING ELEV=76.39m
100-YEAR MAX PONDING ELEV=77.12m

STM 101 (1200)
T/L=77.73
S.INV=75.38±
E.INV=75.37
N.INV=76.17
W.INV=75.86

CICB 102
T/L=77.73
S.INV=76.18
C/W LMF40 ICD
5-YEAR FLOW=0.7L/s
100-YEAR FLOW=1.3L/s
5-YEAR ELEV=76.39m
100-YEAR ELEV=77.12m
W.INV=76.21

SOLENO STORMCHAMBER SYSTEM 15 STORAGE UNIT OR AN APPROVED EQUIVALENT
VOL=50.0m³
INV=76.22
OBV=77.13

STM 106 (1200)
T/L=77.74
E.INV=75.54
C/W 153mmø ICD
5-YEAR FLOW=20.6L/s
100-YEAR FLOW=33.6L/s
5-YEAR ELEV=75.75m
100-YEAR ELEV=76.00m
N.INV=75.60
C/W BACKWATER VALVE
NW.INV=75.57

1.5m-250mmø PVC STM @ 1.0%

CB 101
T/L=77.69
SE.INV=75.58
W.INV=75.61

2.6-250mmø PVC STM @ 1.0%

6.8m-250mmø HDPE SUBDRAIN @ 0.50%

CB'T' 102
T/L=77.80
W.INV=76.22
E.INV=76.19

SOLENO HYDROSTOR HS180 SYSTEM 25 STORAGE UNIT OR AN APPROVED EQUIVALENT
VOL=138.0m³
INV=75.62
OBV=76.53

18.0m-250mmø HDPE SUBDRAIN @ 0.5%

SILL=77.90

77.71

IB(RPE)

CANOPY

PROPERTY LINE

FENCE 0.1 EAST

BOARD FENCE

CONCRETE SIDEWALK

ENTRANCE

ASPHALT

CONCRETE

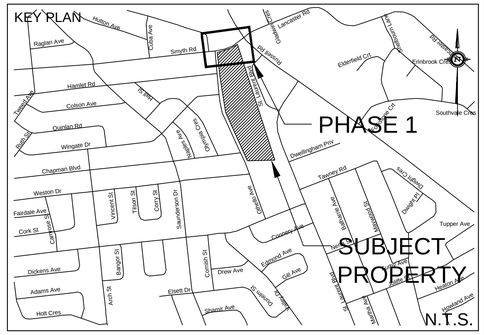
HYDRO

GAS

BELL

NOT FOR CONSTRUCTION

KEY PLAN



LEGEND

EX6
4.010
0.19

DRAINAGE AREA ID
AREA IN Ha
RATIONAL METHOD RUNOFF COEFFICIENT

PROPERTY LINE
PROPOSED STORM SEWER
DRAINAGE DIVIDE
PROPOSED SWALE
PROPOSED PERFORATED SUBDRAIN
PROPOSED STORM MANHOLE
PROPOSED CATCH BASIN
PROPOSED CURB INLET CATCH BASIN
PROPOSED CB 'T' OR CB 'L'
EMERGENCY FLOW ROUTE
SURFACE PONDING AREA
MAX PONDING

0 10 20

TOPOGRAPHIC INFORMATION
TOPOGRAPHIC INFORMATION PROVIDED BY STANTEC
PROJ. NO. 161613349-111
DATED JUNE 12, 2018

SITE PLAN INFORMATION
SITE PLAN PROVIDED BY HOBIN ARCHITECTURE INCORPORATED
PROJ. NO.1817
DATED FEBRUARY 1, 2019

GEOTECHNICAL STUDY
GEOTECHNICAL RECOMMENDATIONS PROVIDED BY GOLDER ASSOCIATES LTD.
PROJ. NO.18106596-1000
DATED NOVEMBER 2018

SITE SERVICING AND STORMWATER MANAGEMENT STUDY
SERVICING AND STORMWATER MANAGEMENT RECOMMENDATIONS PROVIDED BY DSEL
PROJ. NO. 18-1027
DATED NOVEMBER 2018

BENCH MARK
LOCATED SOUTH SIDE OF SITE WITHIN EXISTING PARKING LOT
ELEV=77.77

No.	BY	YY.MM.DD	DESCRIPTION
2	C.M.K.	19.02.07	ISSUED FOR MUNICIPAL REVIEW
1	A.J.G.	18.11.21	ISSUED FOR MUNICIPAL REVIEW

PROJECT No18-1027

LICENSED PROFESSIONAL ENGINEER
R. D. FREEL
100163197
19-12-09
PROVINCE OF ONTARIO

STORMWATER MANAGEMENT PLAN
1910 ST.LAURENT BLVD - PHASE 1

© DSEL

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Fax. (613) 836-7183
www.DSEL.ca

DRAWN BY:	C.M.K.	CHECKED BY:	R.D.F.	DRAWING NO.	SHEET NO.
DESIGNED BY:	A.J.G.	CHECKED BY:	A.D.F.	SWM-1	1 of 1
SCALE:	1:500	DATE:	FEBRUARY 2019		

CITY PLAN No.: XXXXX

CITY FILE No.: D07-12-18-0173

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