DEPTH OF THE EXISTING 200mm WATERMAIN HAS BEEN ESTIMATED TO BE ±2.10m. PRIOR TO COMMENCING CONSTRUCTION DAYLIGHT EXISTING WATERMAIN AND DETERMINE ITS EXACT LOCATION, DEPTH AND SIZE BY CAREFUL TEST EXCAVATION. REPORT ANY DIFFERENCES TO THE ENGINEER.

SIZE AND DEPTH OF THE EXISTING STORM SEWER HAS BEEN ESTIMATED. PRIOR TO COMMENCING CONSTRUCTION DAYLIGHT EXISTING STORM SEWER AND DETERMINE THEIR EXACT LOCATIONS, DEPTHS AND SIZES BY CAREFUL TEST EXCAVATIONS. REPORT ANY DIFFERENCES TO THE ENGINEER.

No. 2020
4 Storey Apartment Building

TpFdn El=71.90

Flat Roof El=±109.6

EXIST. CB
TOP 70.91
INV ±66.59

ASSUMED 250 ST @ 2%

55.8m – 450 CONC ST @ 0.34%

Edge of Asphalt

Existing 50mm Gas

POSSIBLE LOCATION OF EXISTING MH

A+00.0

A+01.5

150 PVC WS

VB

A+06.8

A+08.3

A+10.3
B+00.0

A+06.0

EXISTING 200 WM

EXISTING ST @ ±0.22%

EXIST. SAN MH
TOP 71.58
INV ±68.74(SE)

EXIST. MH
TOP 71.19
INV ±68.92(NE)
INV ±68.98(S)
INV ±68.96(SW)

EXIST. CB
TOP 71.10

EXIST. CB
TOP 71.16

Existing 404mm Hydro

2m – 2m

EXISTING ST @ ±0.21%

ARROWSMITH DRIVE

200 ST INV 69.18
450 ST SPL 69.18

10.9m – 200 PVC ST @ 1%

MH-9
TOP 71.30
INV 68.96(N)
INV 68.99(SE)

CLAY SEEPAGE BARRIER IN TRENCH
(REFER TO GEOTECHNICAL)

3.8m – 300 PVC ST @ 0.34%

MH-8 (OGS)
TOP 71.40
INV 69.00(NW)
INV 69.01(SE)

MH-SA.1
TOP ±71.20
INV 68.60(NE)
INV 68.54(SE)

LS O 150 SAN INV 68.48
250 SAN SPL ±68.48

EXISTING 250 CONC SAN @ ±1.01%

2m
0m 1:150 10m

EXIST. CB
TOP 71.53

Site Benchmark
Top of Spindle of FH
Elevation = 72.68

EXIST. MH
TOP 71.72
INV ±69.31(W)
INV ±68.24(NW)
INV ±68.19(SE)

MH-7
TOP 71.10
INV 69.11(NW)
INV 69.11(NE)
INV 69.11(SE)
ICD IN OUTLET PIPE PLUG
STYLE 21.90L/s @ 1.95m
(86mm DIA.)
ORIFICE LOCATED AT
BOTTOM OF PLUG

EXIST. CB/MH
TOP 70.86
INV ±69.05(N)
INV ±69.06(S)
INV ±69.06(W)

EXIST 250 CONC SAN @ ±0.35%
(APPROXIMATE LOCATION)

7.7m – 200 PVC SAN @ 0.65%

MH-SA.2
TOP ±71.12
INV 68.37(NW)
INV 68.31(SW)
250 ST SPL 69.27
300 ST SPL 69.27

150 SAN INV 68.26
250 SAN SPL ±68.26

REFER TO NOTES & DETAILS
ON DRAWINGS C-10 & C11

No. 2044
4 Storey Apartment Building

PROPOSED 6-STOREY
MIXED-USE BUILDING

FFL = 71.71
USF = 70.06

ST INV 69.29
SAN INV 68.74

PATIO

Garbage Enclosure

CRZ

14.2m – 150 PVC SAN @ 1%

300 ST
INV 69.04
150 SAN
TOP 68.88

23.2m – 300 PVC ST @ 0.34%

27.1m – 200 PVC SAN @ 0.63%

50mm THICK INSULATION, 1.8m WIDE

4.6m – 250 PVC ST @ 0.432%

CB-6
TOP 70.97
INV 69.13

50mm THICK INSULATION, 1.8m WIDE

CB-5
TOP 70.97
INV 69.16

4.4m – 250 PVC ST @ 0.432%

CLAY SEEPAGE BARRIER IN TRENCH
(REFER TO GEOTECHNICAL)

LS O

FDC

FH

M-W

R

M

B+01.5

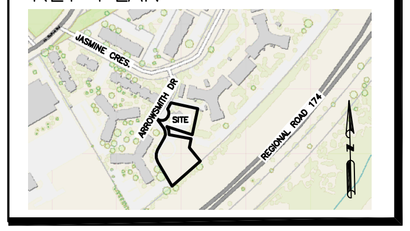
A+16.9

A+18.4

LEGEND

FFL	FINISHED FLOOR ELEVATION
TOF	TOP OF FOUNDATION
BFL	BASEMENT FLOOR ELEVATION
USF	UNDERSIDE OF FOOTING
	PROPERTY LINE
C.R.Z	CRITICAL ROOT ZONE
CB	CATCH-BASIN
MH	STORM MANHOLE
CB/MH	CATCH-BASIN/MANHOLE
MH	SANITARY MANHOLE
FH	FIRE HYDRANT
FDC	FIRE DEPARTMENT CONNECTION
VB	VALVE & VALVE BOX
M	WATER METER
R	REMOTE WATER METER
SAN	SANITARY SEWER
ST	STORM SEWER
WS/WM	WATER SERVICE/WATERMAIN
OBV	OBVERT OF PIPE
SPL	SPRINGLINE OF PIPE
INV	INVERT OF PIPE
T.O.S	TOP OF SLOPE
B.O.S	BOTTOM OF SLOPE
	CENTERLINE OF SWALE
	150mm BARRIER CURB
D.C	DEPRESSED CURB
	ROAD CUT REINSTATEMENT

KEY PLAN



No.	DATE	REVISION
3	AUG 14-23	RE-ISSUED FOR APPROVAL SAN SERVICE REVISED (MHs ADDED)
2	DEC 21-22	ISSUED FOR APPROVAL
1	DEC 19-22	ISSUED FOR COORDINATION

D. B. GRAY ENGINEERING INC.
Stormwater Management · Grading & Drainage · Storm & Sanitary Sewers · Watermains
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Ottawa, Ontario d.gray@dbgrayengineering.com

Project

PROPOSED 6-STOREY
MIXED-USE BUILDING
2040 ARROWSMITH DRIVE
OTTAWA, ONTARIO

Drawing Title

SITE SERVICING PLAN
(NORTH)

Engineer's Seal

LICENSED PROFESSIONAL ENGINEER
D.B. GRAY
17016502
AUG 14-23
PROVINCE OF ONTARIO
NOT VALID UNLESS SIGNED & DATED

Drawn	D.B.G
H. Scale	1:150
V. Scale	
Date	DEC 19-22
Job No.	22062

Drawing No.
C-3
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