

LEGEND

- SITE BOUNDARY
- PROPOSED STORM MANHOLE & SEWER
- PROPOSED SANITARY MANHOLE & SEWER
- PROPOSED WATERMAIN
- PROPOSED VALVE & VALVE BOX
- PROPOSED CURB STOP LOCATION
- PROPOSED DISTRICT METERING AREA (DMA) CHAMBER (AS PER CITY OF OTTAWA DETAIL W3.3)
- PROPOSED HYDRANT C/W VALVE & VALVE BOX
- PROPOSED TWSI AS PER CITY OF OTTAWA DETAIL SC7.2
- PROPOSED TREES
- PROPOSED CURB INLET CATCHBASIN
- PROPOSED CATCHBASIN
- PROPOSED CATCHBASIN MANHOLE
- PROPOSED REAR YARD ELBOW
- PROPOSED REAR YARD TEE
- PROPOSED HYDRO METER LOCATION
- PROPOSED HYDRO STEP DOWN TRANSFORMER LOCATION
- PROPOSED WATER METER LOCATION
- PROPOSED REMOTE WATER METER LOCATION
- PROPOSED GAS METER LOCATION
- PROPOSED PRESSURE REDUCING VALVE
- PROPOSED RETAINING WALL

- EXISTING STORM MANHOLE AND SEWER
- EXISTING SANITARY MANHOLE AND SEWER
- EXISTING WATERMAIN
- EXISTING UNDERGROUND GAS
- EXISTING VALVE AND VALVE BOX
- EXISTING FIRE HYDRANT
- EXISTING CATCHBASIN
- EXISTING TOP OF GRATE
- EXISTING HYDRAULIC GRADE LINE
- EXISTING UTILITY POLE C/W GUY WIRES
- EXISTING STREETLIGHT

NORTH

KEY PLAN
N.T.S.

SITE BENCHMARK
REFERENCED TO LOCAL
GEODETIC DATUM
N 5015148.638
E 354367.4350
ELEV: 98.10m

PRE- AND POST-CONSTRUCTION SANITARY
CCTV REQUIRED (123.8m REQUIRED)
PRE- AND POST-CONSTRUCTION STORM
CCTV REQUIRED (125.6m REQUIRED)

CONTRACTOR TO PERFORM CONFINED SPACE
ENTRY AND VERIFY INVERTS AND STRUCTURE
ORIENTATION FOR ALL CONNECTIONS PRIOR TO
ANY CONSTRUCTION. PRE AND POST CONDITION
CCTV INSPECTIONS TO PROVIDE FULL REVIEW
OF INTERIOR OF EX.SANMHS AND EX.STMMHS

CONNECT TO EXISTING
300mm WATERMAIN

INSTALL 300mm VALVE &
VALVE BOX ON EXISTING
300mm WATERMAIN

REMOVE AND CAP
EXISTING DICB
RELOCATE EXISTING
CATCHBASIN. CONNECT TO
EXISTING CATCHBASIN LEAD

CONNECT TO LOWERED
WATERMAIN
T.W.M.=93.59

EXISTING 300mm WATERMAIN
TO BE LOWERED TO T.W.M.=93.59
TO ACCOMMODATE 825mm STM

18.9m-825mm STM @ 0.11%
T.W.M.=96.79
I.N.V.=94.08
I.N.V.SW=94.54
I.N.V.NE=93.71
I.N.V.SW=93.93

ROAD CUT AS PER CITY OF
OTTAWA DETAIL R10

15.0m-200mm SAN @ 2.00%

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15.0m-200mm SAN @ 2.00%

NOTE:
THE POSITION OF ALL POLE LINES, CONDUITS,
WATERMAINS, SEWERS AND OTHER
UNDERGROUND AND OVERGROUND UTILITIES AND
STRUCTURES IS NOT NECESSARILY SHOWN ON
THE CONTRACT DRAWINGS, AND WHERE SHOWN,
THE ACCURACY OF THE POSITION OF SUCH
UTILITIES AND STRUCTURES IS NOT GUARANTEED.
BEFORE STARTING WORK, DETERMINE THE EXACT
LOCATION OF ALL SUCH UTILITIES AND
STRUCTURES AND ASSUME ALL LIABILITY FOR
DAMAGE TO THEM.

No.	REVISION	DATE	BY
6.	REVISED SITE PLAN SUBMISSION	NOV 14/25	DOB
5.	RE-ISSUED FOR TENDER	JAN 18/24	DOB
4.	ISSUED FOR TENDER	MAY 20/22	DOB
3.	REVISED PER CITY COMMENTS	FEB 17/22	DOB
2.	REVISED PER CITY COMMENTS	NOV 5/21	DOB
1.	ISSUED FOR CITY OF OTTAWA REVIEW	JUN 2/21	DOB

SCALE

1:400

1:400
0 4 8 12 16

DESIGN

BM

CHECKED

DDB

DRAWN

ATE

CHECKED

BM

DOB

FOR REVIEW ONLY



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CITY OF OTTAWA
5331 FERNBANK ROAD
IRON VALLEY 2

DRAWING NAME

GENERAL PLAN OF SERVICES

PROJECT No.

121011-00

REV # 6

DRAWING No.

121011-GP1

#18539

PIPE CROSSING TABLE

CROSSING #	WATERMAIN	SANITARY	STORM
1	INV = 92.98 OBV = 93.18	INV = 94.69 OBV = 94.99	
2	INV = 92.98 OBV = 93.18	INV = 93.72 OBV = 93.92	
3	INV = 93.62 OBV = 93.82	INV = 94.53 OBV = 94.98	
4	INV = 93.00 OBV = 93.10	INV = 93.69 OBV = 93.89	
5	INV = 93.00 OBV = 93.10	INV = 93.66 OBV = 93.86	
6	INV = 94.50 OBV = 94.70	INV = 95.41 OBV = 95.61	
7	INV = 93.26 OBV = 93.46	INV = 93.77 OBV = 93.97	
8	INV = 93.26 OBV = 93.46	INV = 94.00 OBV = 94.20	
9	INV = 93.26 OBV = 93.46	INV = 93.97 OBV = 94.17	
10	INV = 93.26 OBV = 93.46	INV = 94.00 OBV = 94.20	
11	INV = 93.30 OBV = 93.40	INV = 93.94 OBV = 94.14	
12	INV = 93.30 OBV = 93.40	INV = 93.94 OBV = 94.14	
13	INV = 93.30 OBV = 93.40	INV = 93.94 OBV = 94.14	
14	INV = 93.30 OBV = 93.40	INV = 93.94 OBV = 94.14	
15	INV = 94.63 OBV = 94.83	INV = 94.09 OBV = 94.29	
16	INV = 93.53 OBV = 93.73	INV = 94.27 OBV = 94.47	
17	INV = 93.53 OBV = 93.73	INV = 94.27 OBV = 94.47	
18	INV = 93.53 OBV = 93.73	INV = 94.27 OBV = 94.47	
19	INV = 94.05 OBV = 94.25	INV = 94.65 OBV = 94.85	
20	INV = 94.05 OBV = 94.25	INV = 94.65 OBV = 94.85	
30	INV = 94.05 OBV = 94.25	INV = 94.65 OBV = 94.85	
31	INV = 94.05 OBV = 94.25	INV = 94.65 OBV = 94.85	
32	INV = 94.05 OBV = 94.25	INV = 94.65 OBV = 94.85	

* WATERMAIN CROSSING AS PER W25 & W25.2
PROVIDE THERMAL INSULATION AS PER W22
WHERE THERE IS LESS THAN 2.4m COVER.

SAN MANHOLE TABLE

MANHOLE ID	SIZE(mm)	STATION	T/G ELEV(m)	INVERT(m)
101	1200	1+028.42	96.94	SE=93.10 NW=93.07
103	1200	1+050.12	97.04	SE=93.56 NW=93.53
105	1200	1+065.88	97.04	NE=93.68 SE=93.62 SW=93.65 NW=93.68
107	1200	1+138.76	97.11	SE=93.93 NW=93.90 SW=93.96 NW=93.96
109	1200	1+210.01	97.35	SE=94.20 NW=94.17 SE=94.23
201	1200	3+041.42	97.14	S=93.84 NE=93.81
203	1200	3+077.08	97.23	N=94.20
205	1200	2+040.73	97.00	SW=94.11
207	1200	3+141.50	97.01	NE=94.35
209	1200	4+040.90	97.07	SW=94.39
211	1200	6+040.90	97.33	SW=94.66

STM MANHOLE TABLE

MANHOLE ID	SIZE(mm)	STATION	T/G ELEV(m)	INVERT(m)
100	1500	1+029.68	96.96	N=94.10 SE=94.10
102	1500	1+051.06	97.03	NW=94.13 SE=94.13
104	1800	1+064.37	97.03	SE=94.23 SW=94.53 NE=94.68 NW=94.15
106	1500	1+136.45	97.13	SE=94.46 NE=94.76 NW=94.31 SW=94.76
108	1200	1+187.05	97.28	SE=94.60 SW=94.83 NW=94.53
110	1200	1+208.53	97.36	SE=94.65 NE=94.88 NW=94.65 SW=94.88
200	1200	3+041.42	97.14	NE=94.69 S=94.77 NW=94.82
202	1500	3+080.10	97.38	N=94.88 W=94.88
204	1200	3+135.29	97.10	W=94.98 NE=94.93 SE=94.98

REAR YARD CATCHBASIN TABLE

CB No.	SIZE(mm)	T/G ELEV(m)	INVERT(m)	ICD SIZE (mm)
RYE4	300	96.90	NW=95.26	
RYE5	300	96.85	SE=95.15	
RYE6	300	97.40	E=94.92	
RYE7	1200	97.14	SE=95.03	94mmØ PLATE
RYE8	300	97.10	SW=95.20	
RYE9	1200	97.35	NW=95.30	
RYE10	300	97.37	SE=95.47	
RYE11	300	97.14	SW=95.64	
RYE12	300	97.16	NE=95.76	
RYE13	300	97.31	SW=95.91	
RYT7	300	97.15	SW=95.14 SE=95.14	
RYT8	300	96.90	SW=94.90 SE=94.90	
RYT9	300	96.85	SW=94.80 NW=94.80	
RYT10	1200	97.32	NW=95.02 SE=95.02	
RYT12	300	97.07	NE=95.45 SW=95.45	
RYT13	300	97.17	SW=95.59 NE=95.59	83mmØ PLATE
RYT14	300	97.29	NE=95.72 SW=95.72	83mmØ PLATE

CATCHBASIN TABLE

CB No.	SIZE(mm)	STATION	T/G ELEV(m)	INVERT(m)	ICD DIA.(mm)
CB1	600 x 600	1+019.58	96.77		
CBMH1	1500	2+025.87	96.74	SW=94.77 NE=94.77	TEMPEST LMF VORTEX 45
CBMH2	1500	4+025.87	96.84	SW=94.86 NE=94.86	83mmØ PLATE
CBMH3	1200	6+025.86	97.10	SW=94.98 NE=95.03	83mmØ PLATE
CBMH7	1200	3+025.66	96.78	SW=94.65 NE=94.58	
CBMH8	1200	3+062.79	96.92	S=94.85 N=94.85	TEMPEST LMF VORTEX 70
CBMH9	1200	3+097.52	97.14	E=95.17 NE=95.17	
CBMH10	1200	3+157	96.86	SW=94.85 NE=94.85	83mmØ PLATE
CBMH11	1800	5+017.92	97.08	NE=94.90 SE=94.95	83mmØ PLATE
CBMH13	1200	1+208.45	97.23	NE=94.91 SE=94.91	83mmØ PLATE
CICB1	600 x 600	1+100.41	96.99	NE=95.42 SW=95.42	83mmØ PLATE

STORM MANHOLES THAT
REQUIRE WATERTIGHT LIDS
AS PER CITY SPEC MS-22.15

MH ID
104
108
110
204

SANITARY MANHOLES THAT
REQUIRE WATERTIGHT LIDS
AS PER CITY SPEC MS-22.15

MH ID
105
109
205
207
209
211