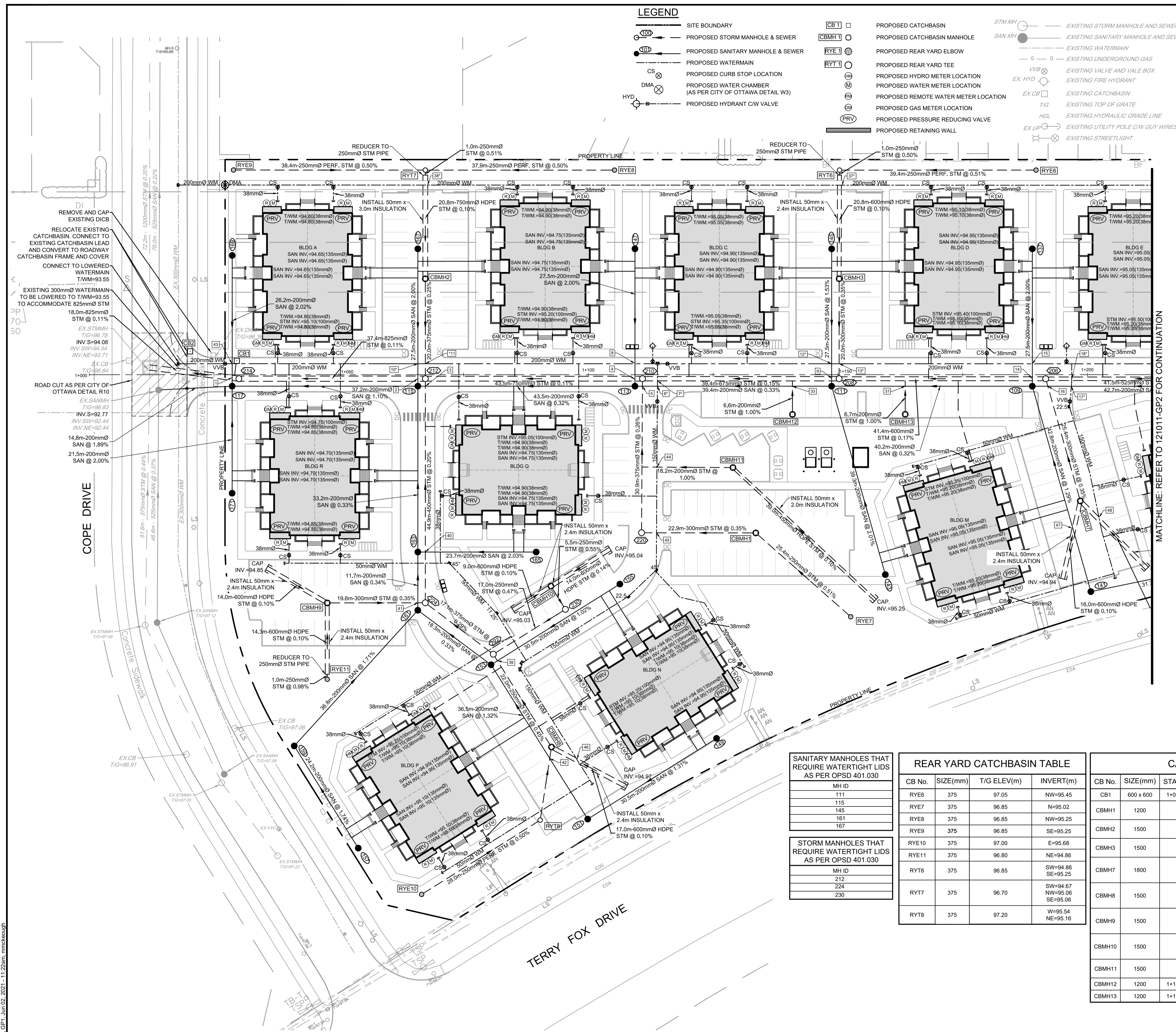
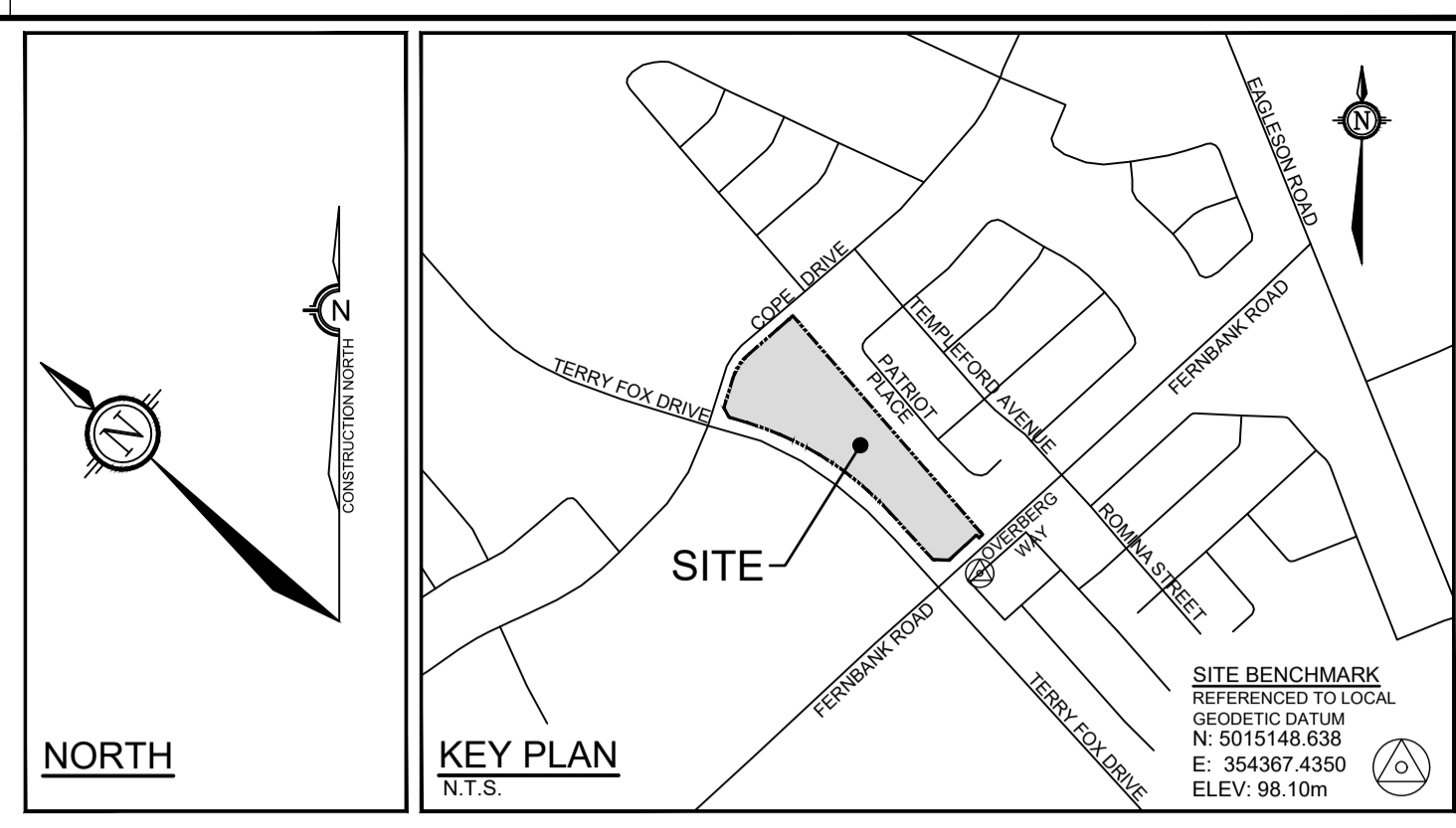


LEGEND

- SITE BOUNDARY
- PROPOSED STORM MANHOLE & SEWER
- PROPOSED SANITARY MANHOLE & SEWER
- PROPOSED WATERMAIN
- PROPOSED CURB STOP LOCATION
- PROPOSED WATER CHAMBER (AS PER CITY OF OTTAWA DETAIL W3)
- PROPOSED HYDRANT C/W VALVE
- PROPOSED CATCHBASIN
- PROPOSED CATCHBASIN MANHOLE
- PROPOSED REAR YARD ELBOW
- PROPOSED REAR YARD TEE
- PROPOSED HYDRO METER 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 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



PIPE CROSSING TABLE

CROSSING #	WATERMAIN	SANITARY	STORM
1		INV = 93.14 OBV = 93.34	INV = 94.10 OBV = 95.04
2		INV = 93.55 OBV = 93.75	INV = 94.13 OBV = 95.07
3		INV = 93.46 OBV = 93.66	INV = 94.53 OBV = 95.05
4		INV = 93.46 OBV = 93.66	INV = 94.26 OBV = 95.12
5		INV = 93.60 OBV = 93.80	INV = 94.63 OBV = 95.09
6*	INV = 92.96 OBV = 93.11	INV = 93.61 OBV = 93.81	INV = 94.33 OBV = 95.11
7*	INV = 92.96 OBV = 93.11	INV = 93.75 OBV = 93.95	INV = 94.39 OBV = 95.17
8	INV = 92.91 OBV = 93.11	INV = 93.81 OBV = 94.01	INV = 94.39 OBV = 95.17
9	INV = 92.91 OBV = 93.11	INV = 93.81 OBV = 94.01	INV = 94.39 OBV = 95.17
10*	INV = 92.91 OBV = 93.11	INV = 93.81 OBV = 94.01	INV = 94.60 OBV = 95.06
11*	INV = 92.91 OBV = 93.11	INV = 93.81 OBV = 94.01	INV = 94.60 OBV = 95.06
12*	INV = 93.16 OBV = 93.36	INV = 94.06 OBV = 94.26	INV = 94.77 OBV = 95.14
13*	INV = 93.16 OBV = 93.36	INV = 93.95 OBV = 94.15	INV = 94.53 OBV = 95.23
14	INV = 94.73 OBV = 94.93	INV = 94.01 OBV = 94.21	INV = 94.84 OBV = 95.21
15	INV = 94.73 OBV = 94.93	INV = 93.87 OBV = 94.07	INV = 94.84 OBV = 95.21
16	INV = 93.24 OBV = 93.39	INV = 93.81 OBV = 94.01	INV = 94.61 OBV = 95.16
17*	INV = 93.24 OBV = 93.39	INV = 93.81 OBV = 94.01	INV = 94.61 OBV = 95.16
18*	INV = 93.24 OBV = 93.39	INV = 93.81 OBV = 94.01	INV = 94.61 OBV = 95.16
31		INV = 93.78 OBV = 93.98	INV = 95.16 OBV = 95.36
33		INV = 93.70 OBV = 93.90	INV = 95.15 OBV = 95.35
37*	INV = 94.15 OBV = 94.35	INV = 94.01 OBV = 94.21	INV = 94.85 OBV = 95.45
38*	INV = 94.15 OBV = 94.35	INV = 93.98 OBV = 94.18	INV = 94.85 OBV = 95.45
39	INV = 94.04 OBV = 94.24	INV = 94.08 OBV = 94.28	INV = 94.88 OBV = 95.11
40	INV = 93.92 OBV = 94.12	INV = 94.08 OBV = 94.28	INV = 94.88 OBV = 95.11
41	INV = 93.92 OBV = 94.12	INV = 93.66 OBV = 93.86	INV = 94.88 OBV = 95.11
42	INV = 94.49 OBV = 94.64	INV = 94.08 OBV = 94.28	INV = 95.03 OBV = 95.23
44	INV = 94.49 OBV = 94.64	INV = 94.08 OBV = 94.28	INV = 95.03 OBV = 95.23
45	INV = 94.14 OBV = 94.29	INV = 94.31 OBV = 94.46	INV = 94.98 OBV = 95.09
46	INV = 94.14 OBV = 94.29	INV = 94.31 OBV = 94.46	INV = 94.98 OBV = 95.09
47	INV = 94.28 OBV = 94.43	INV = 94.31 OBV = 94.46	INV = 94.93 OBV = 95.53
48	INV = 94.28 OBV = 94.43	INV = 94.31 OBV = 94.46	INV = 94.93 OBV = 95.53

SAN MANHOLE TABLE

MANHOLE ID	SIZE(mm)	STATION	T/G ELEV(m)	INVERT(m)
109	1200	1+188.95	97.23	SE=93.86 NW=93.84 NE=93.92 SW=93.92
111	1200	1+148.74	96.99	SE=93.73 NW=93.70 NE=93.79 SW=93.79
113	1200	1+109.33	97.06	SE=93.60 NW=93.60 NE=93.66 SW=93.66
115	1200	1+065.84	96.98	SE=93.46 NW=93.48 NE=93.52 SW=93.52
117	1200	1+028.64	96.90	SE=93.05 NW=93.11 NE=93.60 SW=93.60
137	1200		97.54	SW=94.47
141	1200		97.44	SE=94.53 NE=94.47
143	1200		97.43	NE=94.58
145	1200		96.95	SW=94.21
147	1200		97.28	SW=94.21
149	1200		97.57	W=94.73
151	1200		97.40	E=94.33 N=94.27
153	1200		97.12	S=93.79 E=93.82 N=93.76
155	1200		97.20	W=94.13
157	1200		97.62	N=94.81
159	1200		97.35	S=94.39 E=94.33
161	1200		96.96	W=93.70 NE=93.67 SW=93.70
163	1200		97.10	SW=93.63 SE=93.69 NE=93.63
165	1200		97.30	NW=94.17
167	1200		96.78	SW=94.07
169	1200		97.09	SW=93.64
171	1200		97.17	NE=94.03

SANITARY MANHOLES THAT REQUIRE WATERTIGHT LIDS AS PER OPSD 401.030

MH ID
111
115
145
161
167

STORM MANHOLES THAT REQUIRE WATERTIGHT LIDS AS PER OPSD 401.030

MH ID
161
224
212
230

REAR YARD CATCHBASIN TABLE

CB No.	SIZE(mm)	T/G ELEV(m)	INVERT(m)
RYE6	375	97.05	NW=95.45
RYE7	375	96.85	N=95.02
RYE8	375	96.85	NW=95.25
RYE9	375	96.85	SE=95.25
RYE10	375	97.00	E=95.68
RYE11	375	96.80	NE=94.86
RYT6	375	96.85	SW=94.86 SE=95.25
RYT7	375	96.70	SW=94.67 NW=95.06 SE=95.06
RYT8	375	97.20	W=95.54 NE=95.16

CATCHBASIN TABLE

CB No.	SIZE(mm)	STATION	T/G ELEV(m)	INVERT(m)	ICD DIA. (mm)
CB1	600 x 600	1+029.57	96.88	SW=95.27	83mm PLATE
CBM1	1200		96.85	SW=94.89 NW=94.86	83mm PLATE
CBM2	1500		96.70	SW=94.64 NE=94.64	105mm PLATE
CBM3	1500		96.85	SW=94.83 NE=94.83	80mm PLATE
CBM7	1800		96.95	NE=94.92 SW=94.92 S=94.92	114mm PLATE
CBM8	1500		96.85	N=94.95 SW=95.01 S=94.95	90mm IPEX LMF
CBM9	1500		96.80	SE=94.83 SW=94.83 N=94.83	83mm PLATE
CBM10	1500		96.85	S=95.02 E=95.02 W=95.02	87mm PLATE
CBM11	1500		96.80	NE=95.21 S=95.21	80mm PLATE
CBM12	1200	1+140.90	96.83	NE=95.21	100mm IPEX LMF
CBM13	1200	1+163.49	96.83	NE=95.22	83mm PLATE

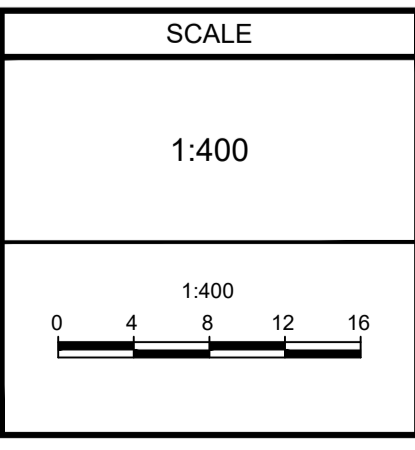
STM MANHOLE TABLE

MANHOLE ID	SIZE(mm)	STATION	T/G ELEV(m)	INVERT(m)
206	1200	1+191.63	97.26	SE=94.60 SW=94.83 NW=94.53
208	1500	1+150.24	97.03	SE=94.46 NE=94.76 NW=94.39
210	1500	1+110.84	97.09	SE=94.33 SW=94.83 NW=94.26
212	1500	1+067.34	96.94	SE=94.21 SW=94.52 NE=94.59 NW=94.14
214	1500	1+029.99	96.91	NW=94.10 SE=94.10
220	1200		97.16	SE=94.78 NE=94.71
222	1200		97.12	N=94.73 S=94.85 E=94.85
224	1200		96.97	S=94.68 NE=94.61 NW=94.76
230	1200		97.03	N=94.99 W=94.93

NOTE:
THE POSITION OF ALL POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUNDS 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.

**PRELIMINARY
NOT FOR
CONSTRUCTION**

No.	REVISION	DATE	BY
1.	ISSUED FOR CITY OF OTTAWA REVIEW	JUN 2/21	DDB



DESIGN

DDB

CHECKED

MSP

DRAWN

MTM

CHECKED

DDB

APPROVED

MSP

FOR REVIEW ONLY

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CITY OF OTTAWA
5331 FERNBANK ROAD
FERNBANK ZENS

DRAWING NAME
GENERAL PLAN OF SERVICES

PROJECT No.: 121011-00
REV: REV #1
DRAWING No.: 121011-GP1

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