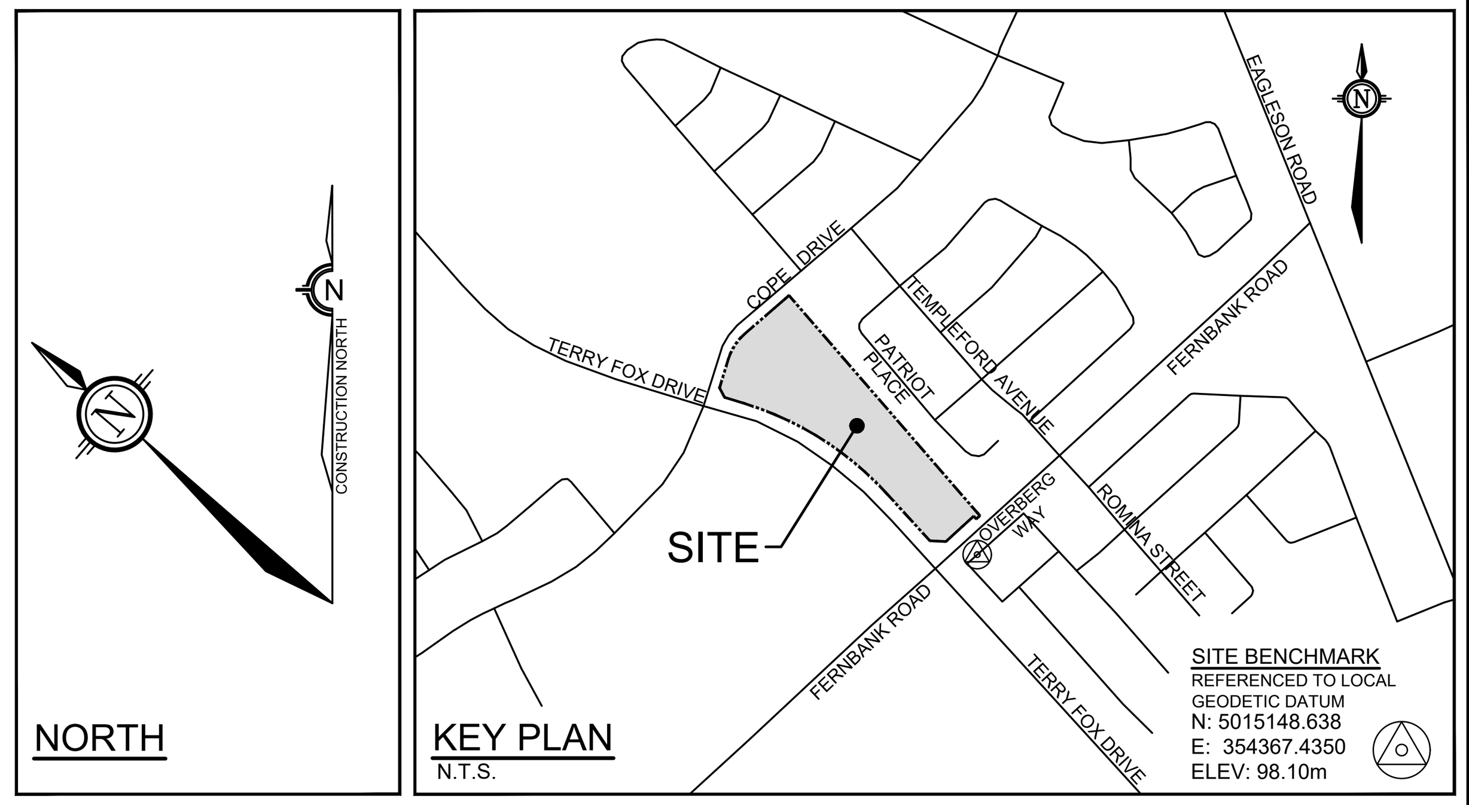
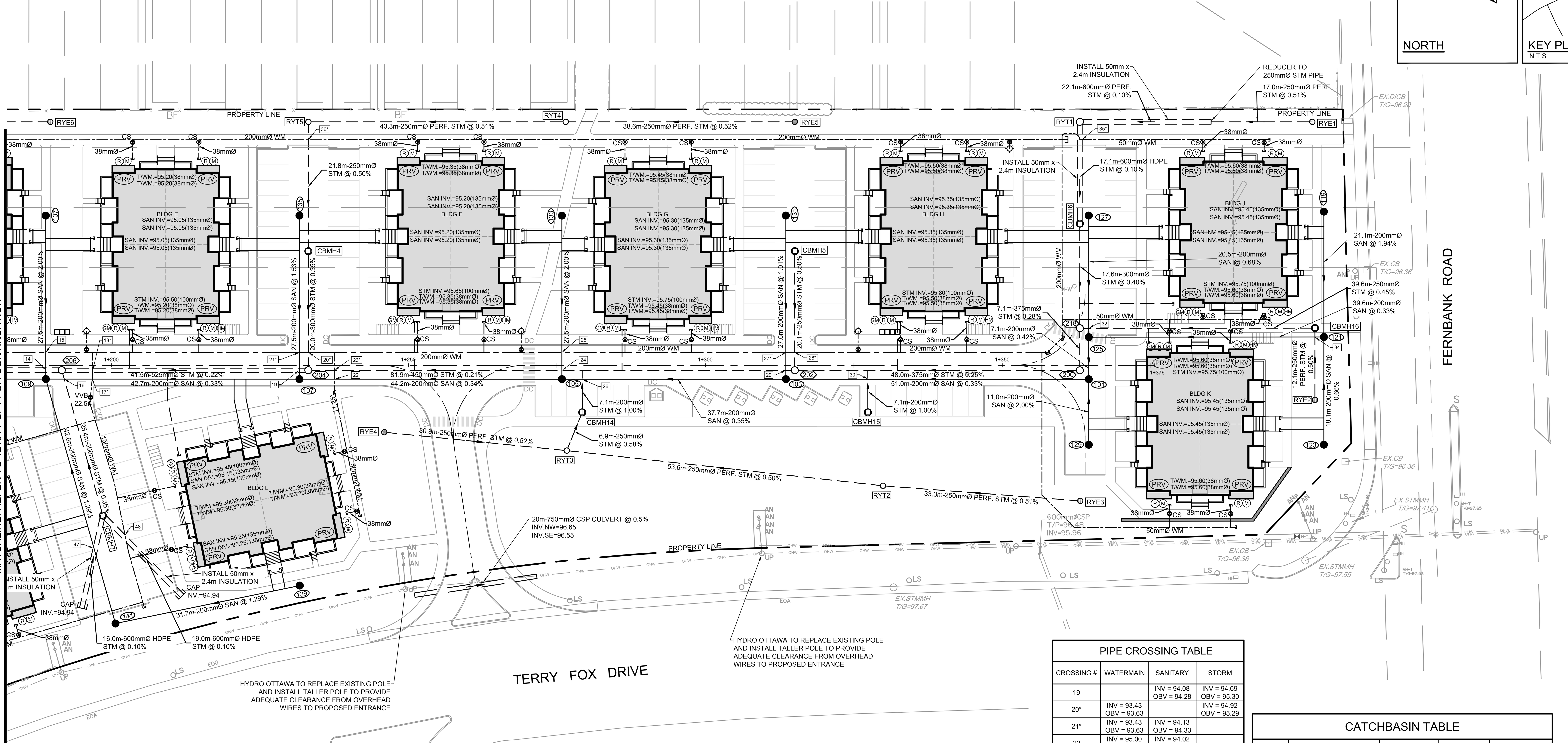
LEGEND

- SITE BOUNDARY
- PROPOSED STORM MANHOLE & SEWER
- PROPOSED SANITARY MANHOLE & SEWER
- PROPOSED WATERMAIN
- CS — PROPOSED CURB STOP LOCATION
- DMA — PROPOSED WATER CHAMBER (AS PER CITY OF OTTAWA DETAIL W3)
- HYD — PROPOSED HYDRANT C/W VALVE
- CB 1 — PROPOSED CATCHBASIN
- CBMH 1 — PROPOSED CATCHBASIN MANHOLE
- RYE 1 — PROPOSED REAR YARD ELBOW
- RYT 1 — PROPOSED REAR YARD TEE
- HM — PROPOSED HYDRO METER LOCATION
- M — PROPOSED WATER METER LOCATION
- RM — PROPOSED REMOTE WATER METER LOCATION
- GM — PROPOSED GAS METER LOCATION
- PRV — PROPOSED PRESSURE REDUCING VALVE
- PROPOSED RETAINING WALL
- STM MH — EXISTING STORM MANHOLE AND SEWER
- SAN MH — EXISTING SANITARY MANHOLE AND SEWER
- EXISTING WATERMAIN
- G — G — EXISTING UNDERGROUND GAS
- VVB — EXISTING VALVE AND VALE BOX
- EX. HYD — EXISTING FIRE HYDRANT
- EX.CB — EXISTING CATCHBASIN
- T/G — EXISTING TOP OF GRATE
- HGL — EXISTING HYDRAULIC GRADE LINE
- EX UP — EXISTING UTILITY POLE C/W GUY WIRES
- EXISTING STREETLIGHT





SAN MANHOLE TABLE				
MANHOLE ID	SIZE(mm)	STATION	T/G ELEV(m)	INVERT(m)
101	1200	1+364.55	97.63	NW=94.45 SW=94.85 NE=94.51
103	1200	1+313.56	97.56	SE=94.28 NW=94.28 NE=94.34
105	1200	1+275.85	97.41	SE=94.15 NW=94.15 NE=94.21
107	1200	1+231.65	97.41	SE=94.00 NW=94.00 NE=94.06
109	1200	1+188.95	97.23	SE=93.86 NW=93.86 NE=93.92 SW=93.92
119	1200		97.90	SW=95.20
121	1200		97.50	NE=94.79 SW=94.79 NW=94.73
123	1200		97.40	NE=94.91
125	1200		95.51	SE=94.60 NE=94.54 SW=94.54
127	1200		97.42	SW=94.68
129	1200		97.75	NE=95.07
131	1200		97.38	SW=94.62
133	1200		97.59	SW=94.76
135	1200		97.22	SW=94.48
137	1200		97.54	SW=94.47
139	1200		97.70	NW=94.94
141	1200		97.44	SE=94.53 NE=94.47

STM MANHOLE TABLE				
MANHOLE ID	SIZE(mm)	STATION	T/G ELEV(m)	INVERT(m)
200	1200	1+363.05	97.60	NW=95.12 NE=95.18
202	1200	1+315.06	97.57	SE=95.00 NE=95.13 NW=94.93
204	1200	1+233.15	97.42	SE=94.76 NE=94.91 NW=94.69
206	1200	1+191.63	97.26	SE=94.60 SW=94.83 NW=94.53
218	1200	1+363.05	97.54	SE=95.32 NE=95.27 SW=95.20

PIPE CROSSING TABLE			
CROSSING #	WATERMAIN	SANITARY	STORM
19		INV = 94.08 OBV = 94.28	INV = 94.69 OBV = 95.30
20*	INV = 93.43 OBV = 93.63		INV = 94.92 OBV = 95.29
21*	INV = 93.43 OBV = 93.63	INV = 94.13 OBV = 94.33	
22	INV = 95.00 OBV = 95.05	INV = 94.02 OBV = 94.22	
23*	INV = 94.22 OBV = 94.27		INV = 94.77 OBV = 95.30
24		INV = 94.24 OBV = 94.44	INV = 94.85 OBV = 95.38
25	INV = 94.95 OBV = 95.15	INV = 94.30 OBV = 94.50	
26		INV = 94.16 OBV = 94.36	INV = 95.12 OBV = 95.32
27*	INV = 93.69 OBV = 93.89	INV = 94.39 OBV = 94.59	
28*	INV = 93.69 OBV = 93.89		INV = 95.14 OBV = 95.39
29		INV = 94.36 OBV = 94.56	INV = 94.93 OBV = 95.38
30		INV = 94.33 OBV = 94.53	INV = 95.54 OBV = 95.74
32		INV = 94.55 OBV = 94.75	INV = 95.33 OBV = 95.53
34		INV = 94.73 OBV = 94.93	INV = 95.57 OBV = 95.82
35*	INV = 94.80 OBV = 94.85		INV = 95.35 OBV = 95.95
36*	INV = 94.43 OBV = 94.63		INV = 95.13 OBV = 95.38
43	INV = 94.27 OBV = 94.47	INV = 93.20 OBV = 93.40	
47		INV = 94.31 OBV = 94.51	INV = 94.93 OBV = 95.53
48	INV = 94.28 OBV = 94.43		INV = 94.93 OBV = 95.53

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

CATCHBASIN TABLE					
CB No.	SIZE(mm)	STATION	T/G ELEV(m)	INVERT(m)	ICD DIA.(mm)
CBMH4	1200		97.15	SW=94.98 NE=95.03	100mm IPEX LMF
CBMH5	1200		97.30	SW=95.23	90mm PLATE
CBMH6	1500		97.35	SW=95.34 NE=95.34	95mm PLATE
CBMH14	1200	1+279.26	97.25	NE=95.18 W=95.21	70mm IPEX LMF
CBMH15	1200	1+327.36	97.30	NE=95.60	73mm PLATE
CBMH16	1200		97.45	NW=95.50 SW=95.56	90mm IPEX LMF

SANITARY MANHOLES THAT REQUIRE WATERTIGHT LIDS AS PER OPSD 401.030
MH ID
105
127
131
135

REAR YARD CATCHBASIN TABLE			
CB No.	SIZE(mm)	T/G ELEV(m)	INVERT(m)
RYE1	375	96.80	NW=95.48
RYE2	375	97.20	NE=95.62
RYE3	375	97.25	NW=95.75
RYE4	375	97.30	SE=95.60
RYE5	375	97.10	NW=95.62
RYE6	375	97.05	NW=95.45
RYT1	750	97.05	SW=95.36 SE=95.36
RYT2	375	97.25	SE=95.58 NW=95.58
RYT3	375	97.25	SE=95.31 NW=95.44 E=95.25
RYT4	375	97.15	NW=95.42 SE=95.42
RYT5	375	97.05	SW=95.14 SE=95.20

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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.

PRELIMINARY NOT FOR CONSTRUCTION

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

SCALE 1:400

DESIGN DDB
CHECKED MSP
DRAWN MTM
CHECKED DDB
APPROVED MSP

FOR REVIEW ONLY

LICENSED PROFESSIONAL ENGINEER
D. D. BLAIR
100122737
June 2 2021
PROVINCE OF ONTARIO

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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-GP2