SEWER AND WATERMAIN CROSSING TABLE

COSSING	STM INV	STM OBV	SAN INV	SAN OBV	WTR TOP	WTR BTM	NOTES
1	83.84 (83.76)	84.29 (84.37)	82.85	83.05			SAN CROSSING UNDER STM
2	84.05	84.42	83.09	83.29			SAN CROSSING UNDER STM
3	84.06	84.44	83.15	83.35	85.09	84.94	DEFLECT WATER OVER STORM (AS PER W25.2) AND INSULATE AS PER W22
4			83.37	83.57	84.75	84.60	WTR CROSSING OVER SAN
5	84.24	84.61	83.45	83.65			SAN CROSSING UNDER STM
6	84.23	84.61	83.38	83.58	85.26	85.11	DEFLECT WATER OVER STORM (AS PER W25.2) AND INSULATE AS PER W22
7	84.43	84.73	83.59	83.79			SAN CROSSING UNDER STM
8	84.42	84.72	83.52	83.72	85.37	85.22	DEFLECT WATER OVER STORM (AS PER W25.2) AND INSULATE AS PER W22
9	84.43	84.73	83.81	84.01			SAN CROSSING UNDER STM
10	84.44	84.74	83.80	84.00	85.39	85.24	DEFLECT WATER OVER STORM (AS PER W25.2) AND INSULATE AS PER W22
11	84.02 (83.93)	84.55 (84.64)			85.34	85.14	DEFLECT WATER OVER STORM (AS PER W25.2) AND INSULATE AS PER W22
12			83.48	83.68	84.83	84.63	WTR CROSSING OVER SAN
13			79.41	79.61	84.87	84.67	WTR CROSSING OVER SAN
14	84.00 (83.91)	84.53 (84.62)	83.52	83.72			SAN CROSSING UNDER STM
15			83.65	83.85	84.86	84.66	WTR CROSSING OVER SAN

* BRACKETS DENOTE ADJUSTED VALUE WITH CONCRETE PIPE THICKNESS

SCHEDULE OF INLET CONTROL DEVICES

Orifice Name	Tributary Area ID	ICD Type	2yr Head (m)	2yr Flow (L/s)	5yr Head (m)	5yr Flow (L/s)	100yr Head (m)	100yr Flow (L/s)
C101A-1IC	C101A	CIRCULAR (83mm ORIFICE)	1.05	13.78	1.47	16.36	1.59	17.05
C103A-1IC	C103A	CIRCULAR (94mm ORIFICE)	1.38	20.29	1.50	21.18	1.57	21.69
C104A-1IC	C104A	CIRCULAR (83mm ORIFICE)	0.90	12.69	1.44	16.21	1.57	16.98
C105A-1IC	C105A	CIRCULAR (83mm ORIFICE)	1.41	16.03	1.49	16.52	1.60	17.13
C106A-1IC	C106A	CIRCULAR (94mm ORIFICE)	1.41	20.54	1.50	21.20	1.57	21.73
C201A-1IC	C201A	CIRCULAR (94mm ORIFICE)	1.15	18.46	1.48	21.08	1.56	21.66
C203A-1IC	C203A	CIRCULAR (83mm ORIFICE)	1.38	15.85	1.48	16.43	1.56	16.89
C204A-1IC	C204A	CIRCULAR (83mm ORIFICE)	0.92	12.84	1.44	16.23	1.59	17.06
C102A-1IC	C102A	IPEX TEMPEST LMF80	1.19	6.25	1.49	6.97	1.55	7.12

200mm Ø WATERMAIN A

STATION	FINISHED GRADE	TOP OF W/M	ITEM
0+000	87.22	±87.40	TEE CONNECTION TO EX. 300mmØ WATERMAIN
0+003.8	87.27	84.87	45° VERTICAL BEND
0+004.4	87.26	85.34	45° VERTICAL BEND
0+009.4	87.22	85.34	45° VERTICAL BEND
0+010.0	87.22	84.82	45° VERTICAL BEND
0+013.0	87.20	84.80	200mmØ DMA CHAMBER
0+020	87.28	84.88	TOP OF WATERMAIN
0+040	87.14	84.74	TOP OF WATERMAIN
0+042.4	87.14	84.74	45° HORIZONTAL BEND
0+045.7	87.19	84.79	150mmØ FIRE HYDRANT TEE
0+049.0	87.22	84.82	45° HORIZONTAL BEND
0+050.5	87.23	84.83	200mmØ x 150mmØ TEE
0+054.8	87.22	84.82	200mmØ VALVE AND BOX
0+060	87.18	84.78	TOP OF WATERMAIN
0+062.1	87.15	84.75	45° VERTICAL BEND
0+063.1	87.15	85.50	45° VERTICAL BEND
0+073.0	87.15	85.50	45° VERTICAL BEND
0+074.0	87.16	84.76	45° VERTICAL BEND
0+080	87.23	84.83	TOP OF WATERMAIN
0+084.0	87.22	84.82	200mmØ x 150mmØ TEE
0+086.4	87.19	84.79	200mmØ VALVE AND BOX
0+100	87.09	84.69	TOP OF WATERMAIN
0+115.5	87.22	84.82	150mmØ FIRE HYDRANT TEE
0+117.5	87.25	84.85	200mmØ x 150mmØ TEE
0+120.0	87.29	84.89	200mmØ VALVE AND BOX
0+136.5	87.27	84.87	45° VERTICAL BEND
0+137.5	87.26	85.60	45° VERTICAL BEND
0+140	87.23	85.60	TOP OF WATERMAIN
0+157.2	87.27	85.60	45° VERTICAL BEND
0+158.2	87.28	84.88	45° VERTICAL BEND
0+160	87.30	84.90	TOP OF WATERMAIN
0+166.1	87.24	84.84	200mmØ VALVE AND BOX
0+171.5	87.15	84.75	200mmØ x 150mmØ TEE

150mm Ø WATERMAIN B

STATION	FINISHED GRADE	TOP OF W/M	ITEM
0+000	87.26	84.86	150mmØ CAP AND THRUST BLOCK AS PER W25.3
0+000.5	87.26	84.86	150mmØ x 50mmØ TEE
0+008.6	87.17	84.77	45° VERTICAL BEND
0+009.6	87.17	85.50	45° VERTICAL BEND
0+016.0	87.17	85.50	45° VERTICAL BEND
0+017.0	87.17	84.77	45° VERTICAL BEND
0+020	87.20	84.80	TOP OF WATERMAIN
0+024.1	87.24	84.84	150mmØ VALVE AND VALVE BOX
0+026.6	87.25	84.85	45° VERTICAL BEND
0+027.2	87.24	85.39	45° VERTICAL BEND
0+029.8	87.23	85.39	45° VERTICAL BEND
0+030.4	87.22	84.82	45° VERTICAL BEND
0+033.0	87.23	84.83	200mmØ x 150mmØ TEE

150mm Ø WATERMAIN C

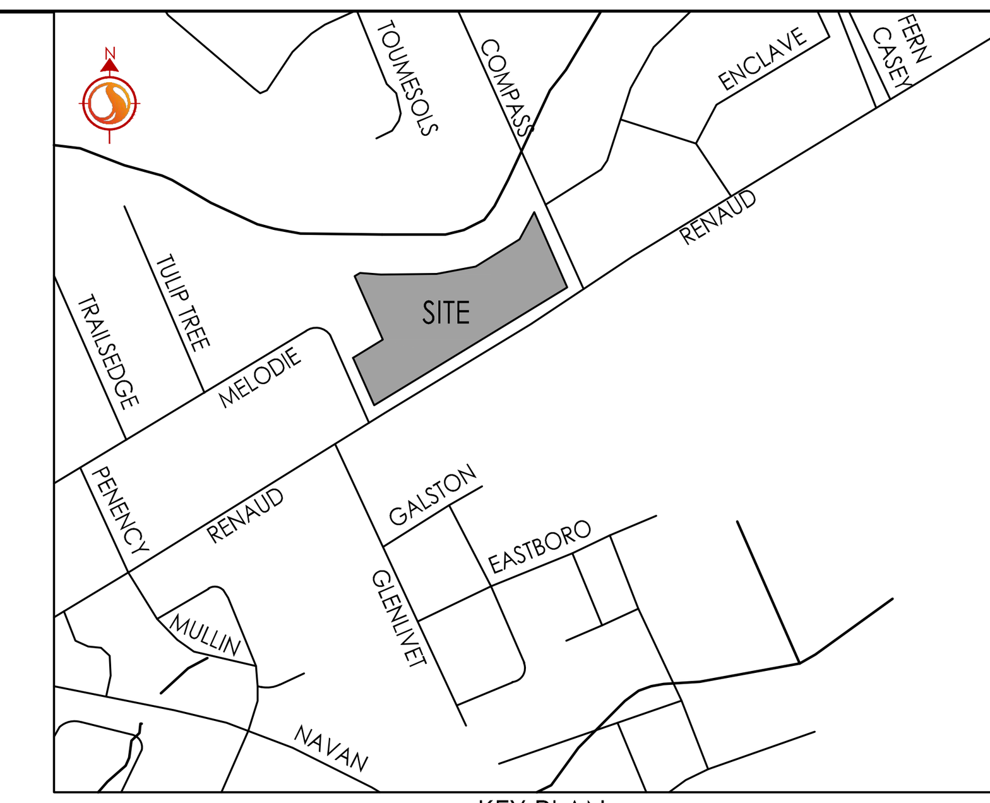
STATION	FINISHED GRADE	TOP OF W/M	ITEM
0+000	87.23	84.83	150mmØ CAP AND THRUST BLOCK AS PER W25.3
0+000.5	87.22	84.82	150mmØ x 50mmØ TEE
0+012.0	87.10	84.70	45° VERTICAL BEND
0+013.0	87.10	85.40	45° VERTICAL BEND
0+016.0	87.13	85.40	45° VERTICAL BEND
0+017.0	87.14	84.74	45° VERTICAL BEND
0+020	87.16	84.76	TOP OF WATERMAIN
0+025.4	87.21	84.81	150mmØ VALVE AND VALVE BOX
0+026.6	87.20	84.80	45° VERTICAL BEND
0+027.2	87.20	85.40	45° VERTICAL BEND
0+029.8	87.18	85.40	45° VERTICAL BEND
0+030.4	87.22	84.82	45° VERTICAL BEND
0+033.0	87.22	84.82	200mmØ x 150mmØ TEE

150mm Ø WATERMAIN D

STATION	FINISHED GRADE	TOP OF W/M	ITEM
0+000	87.07	84.67	150mmØ CAP AND THRUST BLOCK AS PER W25.3
0+000.5	87.07	84.67	150mmØ x 50mmØ TEE
0+013.3	87.17	84.77	150mmØ VALVE AND VALVE BOX
0+014.3	87.18	84.78	45° VERTICAL BEND
0+014.9	87.19	85.26	45° VERTICAL BEND
0+017.5	87.21	85.26	45° VERTICAL BEND
0+018.1	87.20	84.80	45° VERTICAL BEND
0+020.0	87.23	84.83	TOP OF WATERMAIN
0+020.7	87.25	84.85	200mmØ x 150mmØ TEE

150mm Ø WATERMAIN E

STATION	FINISHED GRADE	TOP OF W/M	ITEM
0+000	87.16	84.76	150mmØ CAP AND THRUST BLOCK AS PER W25.3
0+000.5	87.15	84.75	150mmØ x 50mmØ TEE
0+002.6	87.11	84.71	45° VERTICAL BEND
0+003.2	87.10	85.09	45° VERTICAL BEND
0+005.8	87.12	85.09	45° VERTICAL BEND
0+006.4	87.11	84.71	45° VERTICAL BEND
0+009.5	87.15	84.75	200mmØ x 150mmØ TEE
0+015.2	87.24	84.84	150mmØ VALVE AND VALVE BOX
0+020	87.25	84.85	TOP OF WATERMAIN
0+024.0	87.19	84.79	150mmØ FIRE HYDRANT TEE
0+030.2	87.15	84.75	45° HORIZONTAL BEND
0+032.5	87.15	84.75	45° HORIZONTAL BEND
0+040	87.44	85.04	TOP OF WATERMAIN
0+058.6	87.23	84.83	22.5° HORIZONTAL BEND
0+060	87.20	84.80	TOP OF WATERMAIN
0+061.4	87.15	84.75	45° HORIZONTAL BEND
0+063.3	87.14	84.74	150mmØ VALVE AND VALVE BOX
0+064.9	87.13	±84.78	TEE CONNECTION TO EX. 200mmØ WATERMAIN
0+068.3	87.07	84.67	22.5° HORIZONTAL BEND
0+071.4	87.13	84.73	11.25° HORIZONTAL BEND
0+072.3	87.17	84.77	45° VERTICAL BEND
0+073.0	87.19	85.35	45° VERTICAL BEND
0+075.0	87.24	85.35	45° VERTICAL BEND
0+075.7	87.24	84.84	45° VERTICAL BEND
0+088.0	87.23	84.83	150mmØ x 50mmØ TEE
0+088.5	87.23	84.83	150mmØ CAP AND THRUST BLOCK AS PER W25.3



KEY PLAN
N.T.S.

ORIGINAL CONDITIONS TOPOGRAPHIC SURVEYS SUPPLIED BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD., DATED APRIL 12, 2024 AND JUNE 12, 2024.

BEARINGS ARE GRID, DERIVED FROM CAN-NET 2016 REAL TIME NETWORK GPS OBSERVATIONS AND ARE REFERENCED TO SPECIFIED CONTROL POINTS 01919680184 AND 019198434761, MTM ZONE 9 (76°30' WEST LONGITUDE) NAD-83 (ORIGINAL).

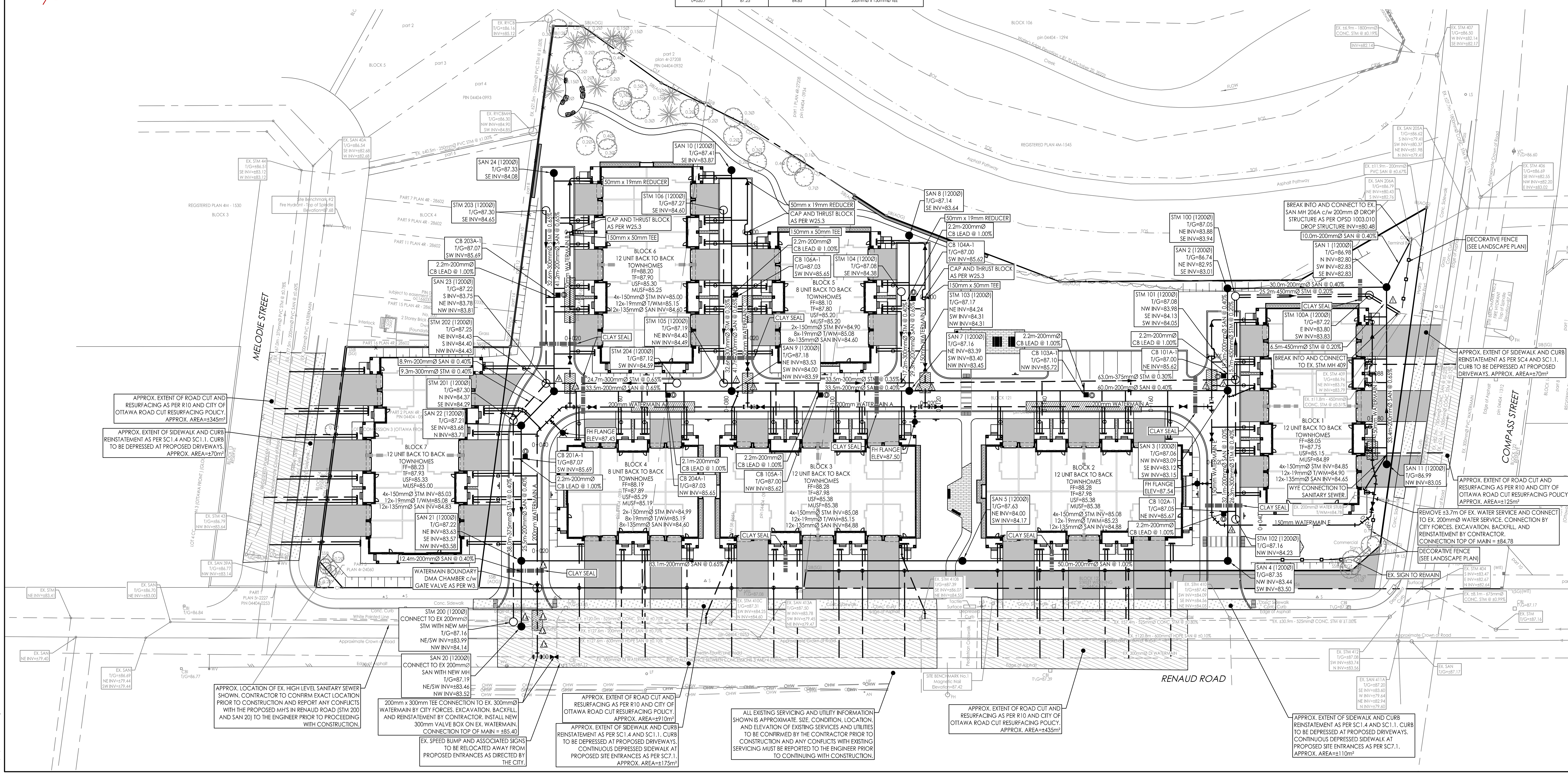
ELEVATIONS SHOWN ARE GEODETIC, AND ARE DERIVED FROM SITE BENCHMARK PER ARCHIVES FROM ANNIS O'SULLIVAN VOLLEBEKK LIMITED, AND ARE REFERRED TO THE CGVD28 GEODETIC DATUM.

APRIL 12, 2024 BENCHMARK 1: MAGNETIC NAIL (RENAUD ROAD SOUTHEAST OF PROPOSED SITE).
ELEVATION = 87.42

APRIL 12, 2024 BENCHMARK 2: FIRE HYDRANT TOP OF SPINDLE (COMPASS STREET NORTHEAST OF PROPOSED SITE).
ELEVATION = 87.63

JUNE 12, 2024 BENCHMARK 1: MAGNETIC NAIL - SET IN WOODEN UTILITY POLE (INTERSECTION OF RENAUD ROAD AND MELODIE STREET).
ELEVATION = 87.21

JUNE 12, 2024 BENCHMARK 2: FIRE HYDRANT TOP OF SPINDLE (MELODIE STREET NORTHWEST OF PROPOSED SITE).
ELEVATION = 87.68



Stantec

Stantec Consulting Ltd.
400 - 1331 Clyde Avenue
Ottawa ON
Tel. 613.722.4420
www.stantec.com

Legend

- PROPOSED WATERMAIN
- PROPOSED VALVE AND VALVE BOX
- PROPOSED VALVE CHAMBER
- PROPOSED REDUCER
- PROPOSED FIRE HYDRANT
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED CATCHBASIN MANHOLE
- PROPOSED CATCHBASIN
- PROPOSED SUBDRAIN CATCHBASIN
- EXISTING WATERMAIN
- EXISTING VALVE AND VALVE BOX
- EXISTING VALVE CHAMBER
- EXISTING FIRE HYDRANT
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING CATCHBASIN
- CIRCULAR ORIFICE (SEE DWG SD-1)
- PROPOSED DEPRESSED CURB LOCATIONS (DC)
- PROPOSED MOUNTABLE/BARRIER CURB LOCATION (BARRIER / MOUNTABLE)
- PROPOSED WATERMAIN INSULATION AS PER W22 AND PROPOSED SEWER INSULATION AS PER S35
- PROPOSED FIREWALL
- PROPOSED CLAY SEAL AS PER RECOMMENDATIONS IN GEOTECHNICAL REPORT No. PG6405-1 REV 3 DATED JUNE 24, 2025 PREPARED BY PATERSON GROUP AND CITY STD S8

BUILDING SERVICES

- 135mmØ SANITARY SEWER PVC SDR 28 @ 1% MIN
- 19mmØ PEX WATER SERVICE C/W CURB STOP AND SERVICE POST UNLESS OTHERWISE SHOWN
- 150mmØ STORM SERVICE PVC SDR 28 @ 1% MIN

0.60m BEHIND BACK OF CURB/SIDEWALK OR AT PROPERTY LINE WHERE UNITS FRONT PUBLIC ROW'S AS SHOWN ON PLAN

Notes

1. EXISTING SERVICING AND UTILITY INFORMATION SHOWN IS APPROXIMATE. SIZE, CONDITION, LOCATION, AND ELEVATION OF EXISTING SERVICES AND UTILITIES TO BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND ANY CONFLICTS WITH EXISTING SERVICING MUST BE REPORTED TO THE ENGINEER PRIOR TO CONTINUING WITH CONSTRUCTION. INFORMATION SHOWN HAS BEEN OBTAINED FROM:
   - TRAILSEDGE PHASE 2 TOWNHOMES, PROJECT No. 12-588, SHEET 9 P&P OF MELODIE STREET, PREPARED BY DSEL, REV 6 "AS BUILT SERVICING INFORMATION ADDED" DATED JANUARY 13, 2015.
   - TRAILSEDGE II, PROJECT No. 31855, DWG No. 101 RENAUD ROAD, PREPARED BY IBI GROUP, REV 8 "ISSUED FOR CONSTRUCTION" DATED JUNE 25, 2014.
   - TRAILSEDGE II, PROJECT No. 31855, DWG No. 103 COMPASS STREET, PREPARED BY IBI GROUP, REV 9 "PHASE 2 ASBUILT" DATED MARCH 15, 2018.

0	ISSUED FOR REVIEW	WAJ	SGG	26.03.25
Revision		By	Appd.	YY.MM.DD
File Name: 160401760-DB.dwg	WAJ	SGG	WAJ	26.02.24
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Permit-Seal

LICENSED PROFESSIONAL ENGINEER
D. C. THIFFAULT
100186107
2026-03-26
PROVINCE OF ONTARIO

Client/Project

RICHCRAFT HOMES LTD.

TRAILSEDGE WEST BLOCK 121
6259, 6267, 6271, & 6273 RENAUD ROAD
OTTAWA, ON

Title

SITE SERVICING PLAN

Project No. 160401760
Scale 1:400 (0 4 12 20m)

Drawing No. SSP-1
Sheet 3 of 9
Revision 0

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2026/03/25 12:51 PM By: Johnson, Warren

ORIGINAL SHEET - ARCH D