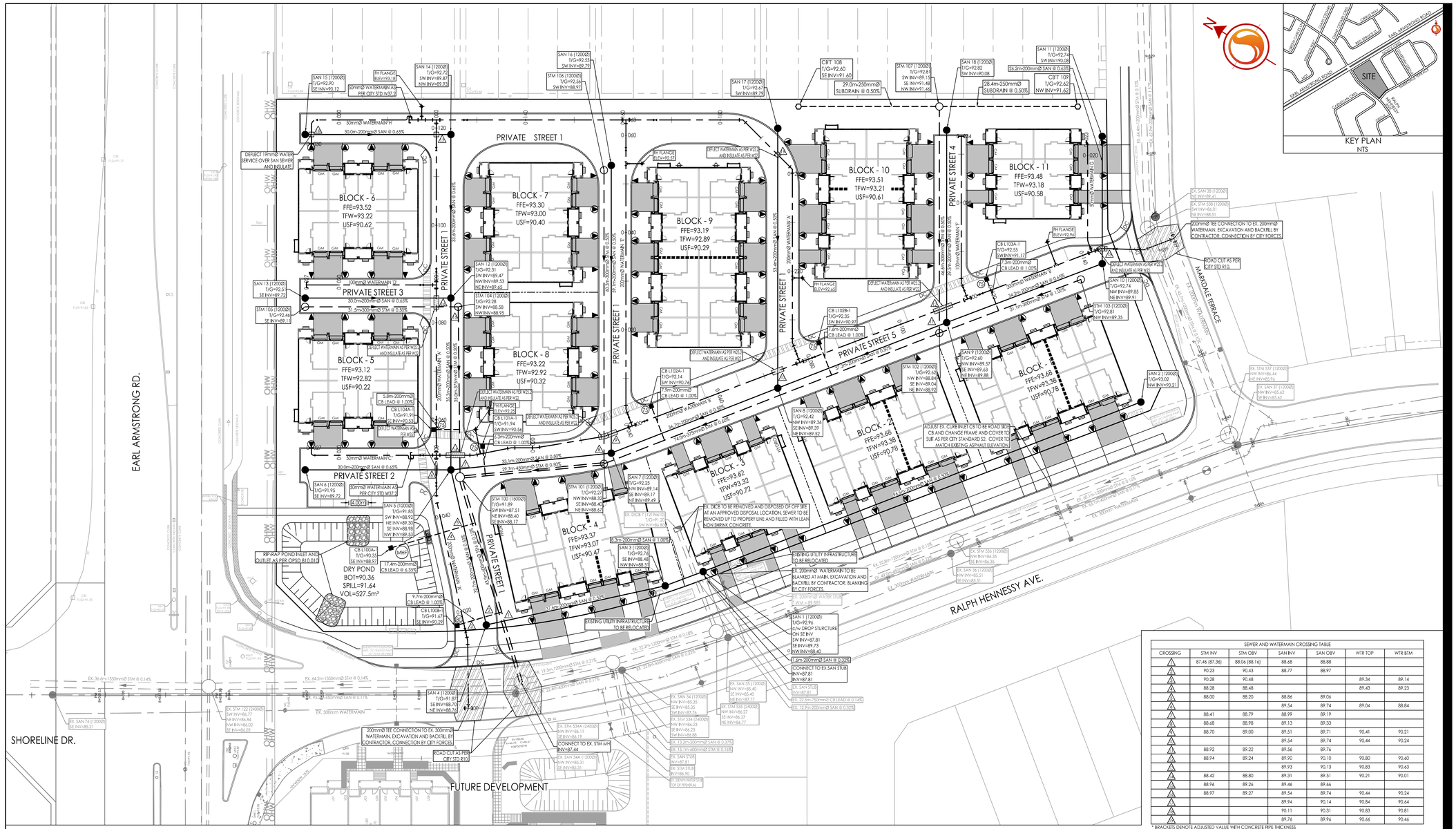

Stantec

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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 DITCH INLET CATCHBASIN
- PROPOSED SUBDRAIN CATCHBASIN
- EXISTING WATERMAIN
- EXISTING VALVE AND VALVE BOX
- EXISTING VALVE CHAMBER
- EXISTING REDUCER
- EXISTING FIRE HYDRANT
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING CATCHBASIN MANHOLE
- EXISTING CATCHBASIN
- EXISTING SUBDRAIN CATCHBASIN
- PROPOSED DEPRESSED CURB LOCATIONS
- PROPOSED MOUNTABLE/BARRIER CURB LOCATION
- THERMAL INSULATION ON STORM SEWER WHERE COVER IS LESS THAN 1.5m, THERMAL INSULATION ON WATERMAIN WHERE COVER IS LESS THAN 2.4m AS PER W22.
- PROPOSED COMMUNITY MAILBOX LOCATIONS
- BACK TO BACK SERVICING WITH STORM SERVICE: 100mm STORM SERVICE PVC SDR 28 @ 1% MIN, 135mm SANITARY SERVICE PVC SDR 28 @ 1% MIN, 19mm PEX TUBING WATER SERVICE C/W CURB STOP AND SERVICE POST
- BACK TO BACK SERVICING WITHOUT STORM SERVICE: 135mm SANITARY SERVICE PVC SDR 28 @ 1% MIN, 19mm PEX TUBING WATER SERVICE C/W CURB STOP AND SERVICE POST
- BACK TO BACK TERRACE HOME SERVICES: 200mm STORM SERVICE PVC SDR 28 @ 1% MIN, 150mm SANITARY SERVICE PVC SDR 28 @ 1% MIN, 19mm PEX TUBING WATER SERVICE C/W CURB STOP AND SERVICE POST
- ICD SIZE AND LOCATION, REFER TO ICD TABLE.
- ICD SIZE AND LOCATION, REFER TO ICD TABLE.
- ICD SIZE AND LOCATION, REFER TO ICD TABLE.
- 2hr RATED FIRE WALL

NOTES:
1. ALL ROOF RUNOFF TO BE DIRECTED TO PRIVATE STREETS. ALL BLOCKS SHALL HAVE THE ROOF EAVES OUTLET TO THE PARKING LOT SIDE OR INTERNAL ROADS TO CONTAIN ROOF DRAINAGE ON SITE. RUNOFF FROM BLOCKS 1 -4 SHALL BE DIRECTED TO PRIVATE STREET 5, BLOCK 11 SHALL BE DIRECTED TO PRIVATE STREET 4
2. BACK TO BACK TOWNHOUSE FOOTING DRAINS TO BE CONNECTED TO PRIVATE STREET 2. TWO FOOTING DRAINS PER BLOCK.
3. ALL SANITARY MAINTENANCE HOLES TO HAVE WATER TIGHT FRAME AND COVERS.

SEWER AND WATERMAIN CROSSING TABLE

CROSSING	STM INV	STM OBV	SAN INV	SAN OBV	WTR TOP	WTR BTM
1	87.46 (87.36)	88.06 (88.16)	88.68	88.88		
2	90.23	90.43	88.77	88.97		
3	90.28	90.48			89.34	89.14
4	88.28	88.48			89.43	89.23
5	88.00	88.20	88.86	89.06		
6			89.54	89.74	89.04	88.84
7	88.41	88.79	88.99	89.19		
8	88.68	88.98	89.13	89.33		
9	88.70	89.00	89.51	89.71	90.41	90.21
10			89.54	89.74	90.44	90.24
11	88.92	89.22	89.56	89.76		
12	88.94	89.24	89.90	90.10	90.80	90.60
13			89.93	90.13	90.83	90.63
14	88.42	88.80	89.31	89.51	90.21	90.01
15	88.96	89.26	89.46	89.66		
16	88.97	89.27	89.54	89.74	90.44	90.24
17			89.94	90.14	90.84	90.64
18			90.11	90.31	90.83	90.81
19			89.76	89.96	90.66	90.46

* BRACKETS DENOTE ADJUSTED VALUE WITH CONCRETE PIPE THICKNESS

3	REVISED PER NEW SITE PLAN AND CITY COMMENTS	MJS	KS	20.03.30
2	REVISED AS PER SITE PLAN AND CITY COMMENTS	MJS	KS	19.09.06
1	ISSUED TO CITY FOR SPA	MJS	KS	18.12.18
Revision		By	Appd.	YY.MM.DD
File Name: 160401422-D8		MJS	KS	MJS 18.08.24
		Dwn.	Chkd.	Dsgn. YY.MM.DD

Permit-Seal

LICENSED PROFESSIONAL ENGINEER
K.L. SMADELLA
2020-03-30
PROVINCE OF ONTARIO

Client/Project

RICHCRAFT HOMES
2280 ST. LAURENT BOULEVARD
OTTAWA, ON, K1G 4K1
RIVERSIDE SOUTH PHASE 8
BLOCK 221
OTTAWA, ON

Title

SITE SERVICING PLAN

Project No. 160401422
Scale 1:400 (0, 4, 12, 20m)
Drawing No. SSP-1
Sheet 3 of 7
Revision 3

D07-12-18-0197
17860

200mmØ WATERMAIN A

STATION	FINISHED GRADE	TOP OF W/M	ITEM
0+000	91.64	89.245	200mmØ x 300mmØ TEE CONNECTION TO EX. 300mmØ WATERMAIN
0+013.9	91.68	89.280	11.5° HORIZONTAL BEND
0+016	91.71	89.310	200mmØ VALVE AND VALVE BOX
0+020	91.86	89.460	TOP OF PIPE
0+043.7	91.79	89.390	11.5° HORIZONTAL BEND
0+046.7	91.81	89.410	200mmØ VALVE AND VALVE BOX
0+048	91.82	89.420	45° VERTICAL BEND
0+049	91.83	89.040	45° VERTICAL BEND
0+050.5	91.84	89.040	45° VERTICAL BEND
0+051.5	91.85	89.450	45° VERTICAL BEND
0+052.7	91.87	89.470	200mmØ X 200mmØ CROSS
0+059.7	91.95	89.550	200mmØ VALVE AND VALVE BOX
0+080	92.24	89.840	TOP OF PIPE
0+082	92.28	89.880	45° VERTICAL BEND
0+082.7	92.29	90.440	45° VERTICAL BEND
0+085.5	92.33	90.440	45° VERTICAL BEND
0+086.2	92.35	89.930	45° VERTICAL BEND
0+087.7	92.37	89.970	200mmØ X 100mmØ TEE
0+090.7	92.37	89.970	200mmØ VALVE AND VALVE BOX
0+100	92.45	90.050	TOP OF PIPE
0+115.7	92.64	90.240	200mmØ VALVE AND VALVE BOX
0+117.5	92.68	90.280	45° VERTICAL BEND
0+118.2	92.70	90.840	45° VERTICAL BEND
0+119.2	92.72	90.840	45° VERTICAL BEND
0+119.9	92.73	90.330	45° VERTICAL BEND
0+121.7	92.77	90.370	200mmØ x 200mmØ TEE
0+127.7	92.80	90.400	200mmØ VALVE AND VALVE BOX
0+140	92.86	90.460	TOP OF PIPE
0+160.6	92.53	90.130	200mmØ x 200mmØ TEE
0+166.6	92.54	90.140	200mmØ VALVE AND VALVE BOX
0+180	92.64	90.240	TOP OF PIPE
0+184.7	92.64	90.240	45.° HORIZONTAL BEND
0+193.6	92.57	90.170	45° VERTICAL BEND
0+194.3	92.57	90.660	45° VERTICAL BEND
0+195.3	92.56	90.660	45° VERTICAL BEND
0+196	92.56	90.160	45° VERTICAL BEND
0+199.1	92.56	90.160	45.° HORIZONTAL BEND
0+210	92.49	90.090	TOP OF PIPE
0+231.4	92.43	90.030	150mmØ FIRE HYDRANT TEE
0+234.6	92.33	89.930	22.5° HORIZONTAL BEND
0+236.8	92.37	89.970	200mmØ VALVE AND VALVE BOX
0+239	92.40	90.000	200mmØ x 200mmØ TEE

200mmØ WATERMAIN B

STATION	FINISHED GRADE	TOP OF W/M	ITEM
0+000	91.87	89.470	200mmØ X 200mmØ CROSS
0+001.3	91.87	89.470	45° VERTICAL BEND
0+002	91.88	90.210	45° VERTICAL BEND
0+003.8	91.90	90.210	45° VERTICAL BEND
0+006.5	91.91	89.510	45° VERTICAL BEND
0+007.7	91.93	89.530	11.5° HORIZONTAL BEND
0+009.1	91.96	89.560	150mmØ FIRE HYDRANT TEE
0+015.6	91.99	89.590	11.5° HORIZONTAL BEND
0+020.6	92.03	89.630	11.5° HORIZONTAL BEND
0+022.7	92.14	89.740	45° VERTICAL BEND
0+033.7	92.15	90.410	45° VERTICAL BEND
0+035	92.17	90.410	11.5° HORIZONTAL BEND
0+037.6	92.18	90.410	45° VERTICAL BEND
0+038.6	92.18	89.780	45° VERTICAL BEND
0+041	92.19	89.790	200mmØ x 200mmØ TEE
0+044	92.20	89.800	200mmØ VALVE AND VALVE BOX
0+060	92.28	89.880	TOP OF PIPE
0+070.8	92.34	89.940	45° VERTICAL BEND
0+071.8	92.36	90.440	45° VERTICAL BEND
0+074.2	92.39	90.440	45° VERTICAL BEND
0+075.2	92.40	90.000	45° VERTICAL BEND
0+077.9	92.40	90.000	200mmØ x 200mmØ TEE
0+080.9	92.41	90.010	200mmØ VALVE AND VALVE BOX
0+100	92.50	90.100	TOP OF PIPE
0+106.3	92.53	90.130	45° VERTICAL BEND
0+107.3	92.54	90.800	45° VERTICAL BEND
0+111.3	92.60	90.800	45° VERTICAL BEND
0+112.3	92.61	90.210	45° VERTICAL BEND
0+114.7	92.64	90.240	200mmØ x 100mmØ TEE
0+117.7	92.60	90.200	200mmØ VALVE AND VALVE BOX
0+134.2	92.75	90.350	150mmØ FIRE HYDRANT TEE
0+142	92.75	90.350	50mmØ TVS OFF 200mmØ
0+142.9	92.74	90.340	45° VERTICAL BEND
0+143.4	92.73	90.850	45° VERTICAL BEND
0+144	92.72	90.830	22.5° HORIZONTAL BEND
0+145.3	92.72	90.830	45° VERTICAL BEND
0+145.8	92.71	90.310	45° VERTICAL BEND
0+147	92.71	90.310	200mmØ VALVE AND VALVE BOX
0+152.9	92.64	90.240	22.5° HORIZONTAL BEND
0+159.5	92.70	90.300	200mmØ x 200mmØ TEE

200mmØ / 50mmØ / 19mmØ WATERMAIN C

STATION	FINISHED GRADE	TOP OF W/M	ITEM
0+000	91.87	89.470	200mmØ X 200mmØ CROSS
0+003	91.83	89.430	200mmØ VALVE AND VALVE BOX
0+004.7	91.81	89.410	50mmØ TVS
0+005.3	91.81	89.410	200mmØ CAP AND THRUST BLOCK
0+010	91.84	89.440	TOP OF PIPE
0+020	91.91	89.510	TOP OF PIPE
0+025.2	91.96	89.560	50mmØ REDUCED TO 19mmØ SERVICE
0+027	92.04	89.640	19mmØ STUBBED SERVICE COIL

100mmØ WATERMAIN D

STATION	FINISHED GRADE	TOP OF W/M	ITEM
0+000	92.37	89.970	200mmØ X 100mmØ TEE
0+003	92.39	89.990	100mmØ VALVE AND VALVE BOX
0+010	92.47	90.070	TOP OF PIPE
0+020	92.53	90.130	TOP OF PIPE
0+027	92.59	90.190	CAP AND THRUST BLOCK

200mmØ WATERMAIN E

STATION	FINISHED GRADE	TOP OF W/M	ITEM
0+000	92.19	89.790	200mmØ x 200mmØ TEE
0+002.2	92.14	89.740	200mmØ VALVE AND VALVE BOX
0+003.7	92.12	89.720	22.5° HORIZONTAL BEND
0+010	92.20	89.800	TOP OF PIPE
0+020	92.26	89.860	TOP OF PIPE
0+040	92.39	89.990	TOP OF PIPE
0+054.1	92.48	90.080	150mmØ FIRE HYDRANT TEE
0+057.1	92.50	90.100	200mmØ VALVE AND VALVE BOX
0+063.1	92.53	90.130	200mmØ x 200mmØ TEE

100mmØ WATERMAIN F

STATION	FINISHED GRADE	TOP OF W/M	ITEM
0+000	92.64	90.240	200mmØ x 100mmØ TEE
0+002.2	92.62	90.220	100mmØ VALVE AND VALVE BOX
0+003.7	92.60	90.200	22.5° HORIZONTAL BEND
0+010	92.61	90.210	TOP OF PIPE
0+020	92.66	90.260	TOP OF PIPE
0+034	92.73	90.330	100mmØ CAP AND THRUST BLOCK

50mmØ / 19mmØ WATERMAIN G

STATION	FINISHED GRADE	TOP OF W/M	ITEM
0+000	92.75	90.350	50mmØ TVS OFF 200mmØ
0+000.75	92.74	90.340	50mmØ VALVE AND VALVE BOX
0+010	92.89	90.490	TOP OF PIPE
0+020	92.85	90.450	TOP OF PIPE
0+022.5	92.87	90.470	50mmØ REDUCED TO 19mmØ SERVICE
0+023	92.88	90.480	19mmØ STUBBED SERVICE COIL

200mmØ / 50mmØ / 19mmØ WATERMAIN H

STATION	FINISHED GRADE	TOP OF W/M	ITEM
0+000	92.77	90.370	200mmØ x 200mmØ TEE
0+003	92.77	90.370	150mmØ FIRE HYDRANT TEE
0+005	92.79	90.390	50mmØ TVS OFF 200mmØ
0+005.6	92.79	90.390	200mmØ CAP AND THRUST BLOCK
0+010	92.83	90.430	TOP OF PIPE
0+020	92.90	90.500	TOP OF PIPE
0+024.7	92.94	90.540	50mmØ REDUCED TO 19mmØ SERVICE
0+024.7	92.88	90.830	19mmØ SERVICE CROSSING SAN SEWER
0+030	92.88	90.480	19mmØ STUBBED SERVICE COIL

SCHEDULE OF INLET CONTROL DEVICES

OUTLET ORIFICE NAME	CATCHBASIN ID	TRIBUTARY AREA ID	MINOR SYSTEM NODE	100YR HEAD (m)	100YR RELEASE RATE (L/s)	ICD TYPE
L103A-IC	L103A-1	L103A	STM 103	1.44	6.00	IPEX TEMPEST LMF 75
L102B-IC	L102B-1	L102B	STM 102	1.48	6.09	IPEX TEMPEST LMF 75
L102A-IC	L102A-1	L102A	STM 102	1.51	6.15	IPEX TEMPEST LMF 75
L101A-IC	L101A-1	L101A	STM 101	1.48	6.09	IPEX TEMPEST LMF 75
L104A-IC	L104A-1	L104A	STM 104	1.44	6.01	IPEX TEMPEST LMF 75
L100B-IC	L100B-1	L100B	STM 100	0.87	5.34	IPEX TEMPEST LMF 80
L100A-IC	L100A-1	L100A	STM 100	2.55	36.68	IPEX TEMPEST MHF(4.25" ORIFICE)

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Jan 03, 2020 3:53:34 PM by Simon, Mike

ORIGINAL SHEET - ARCH D