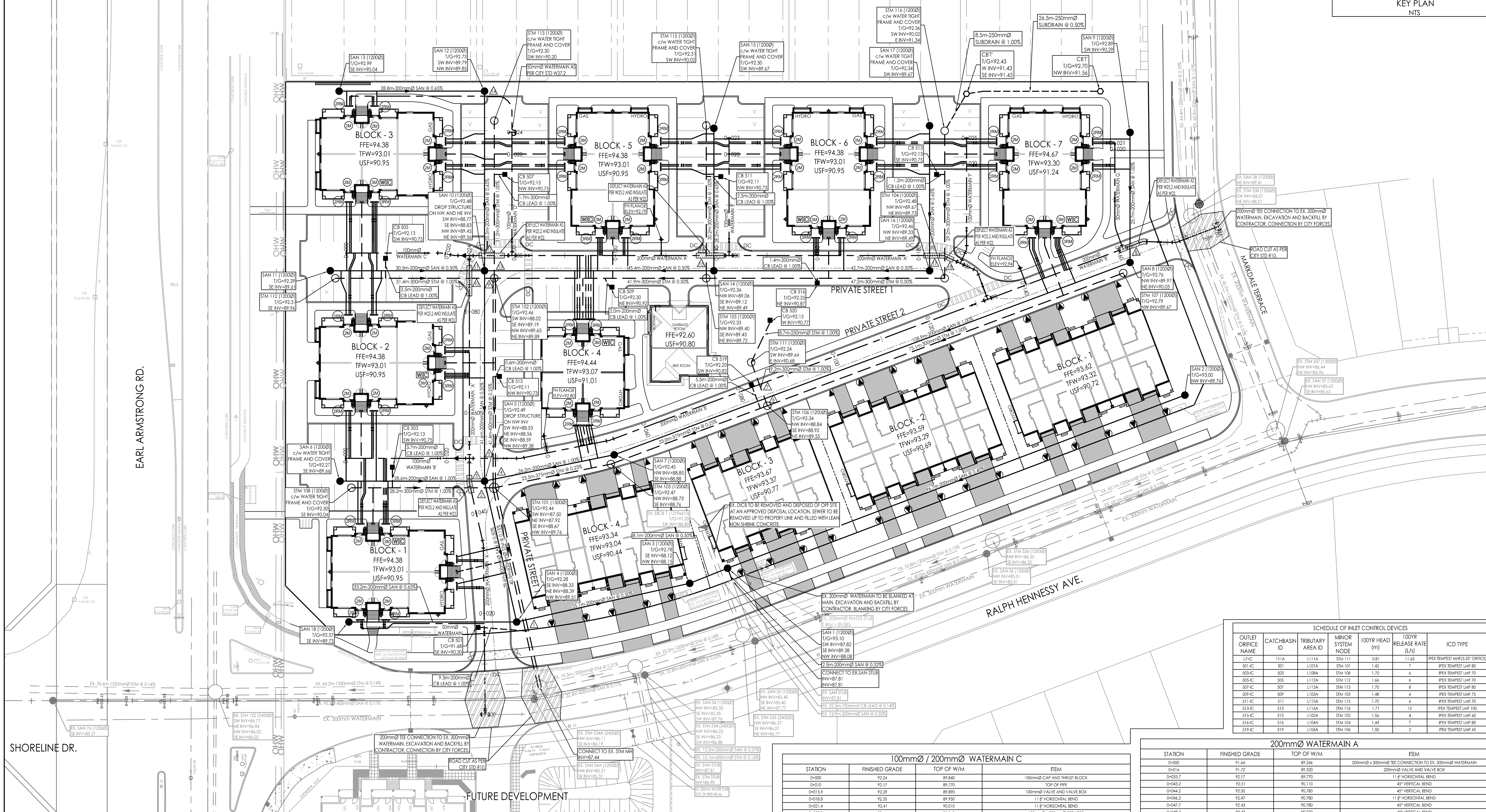

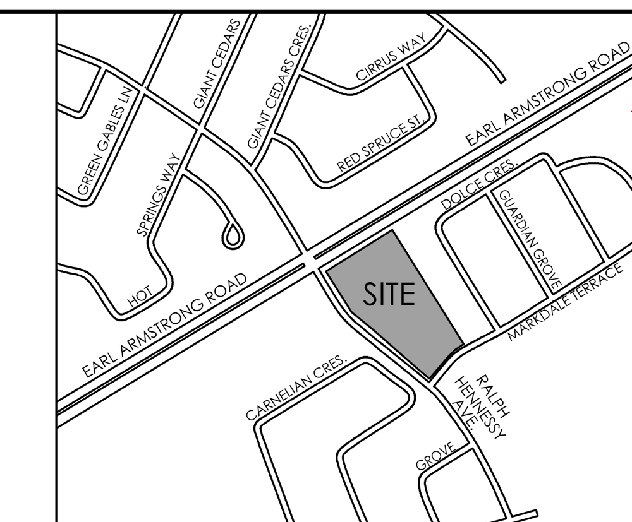

KEY PLAN
NTS

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)	88.32	88.52		
2	89.78	90.08	88.53	88.73	90.78	90.58
3			89.41	89.61	90.78	90.58
4	87.92(87.84)	88.37(88.45)	88.61	88.81		
5	87.93(87.85)	88.38(88.46)	88.58	88.78	90.07	89.87
6	89.57	89.87	89.20	89.40		
7	89.60	89.90			89.10	88.90
8			90.06	90.26	90.96	90.76
9	89.67	89.97	88.76	88.96		
10	89.70	90.00			90.70	90.50
11			89.48	89.68	90.70	90.50
12	89.94	90.24	89.58	89.78	90.94	90.74
13	89.91	90.21	88.85	89.05		
14			89.79	89.99	89.29	89.24
15	89.74	90.04	89.05	89.25		
16	89.77	90.07	89.51	89.71	90.77	90.57
17			89.51	89.71	90.77	90.57
18	89.77	90.07			90.77	90.57

* BRACKETS DENOTE ADJUSTED VALUE WITH CONCRETE PIPE THICKNESS

100mmØ WATERMAIN D

STATION	FINISHED GRADE	TOP OF W/M	ITEM
0+000	92.47	90.070	200mmØ x 100mmØ TEE
0+003	92.47	90.070	100mmØ VALVE AND VALVE BOX
0+010	92.28	89.880	TOP OF PIPE
0+020	92.21	89.810	TOP OF PIPE
0+023.8	92.30	89.900	50mmØ TVS OFF 100mmØ
0+024.4	92.31	89.910	100mmØ CAP AND THRUST BLOCK

100mmØ WATERMAIN E

STATION	FINISHED GRADE	TOP OF W/M	ITEM
0+000	92.41	90.010	200mmØ x 100mmØ TEE
0+003	92.46	90.060	100mmØ VALVE AND VALVE BOX
0+010	92.26	89.860	TOP OF PIPE
0+020	92.20	89.800	TOP OF PIPE
0+023.3	92.26	89.860	100mmØ CAP AND THRUST BLOCK

100mmØ WATERMAIN F

STATION	FINISHED GRADE	TOP OF W/M	ITEM
0+000	92.52	90.120	200mmØ x 100mmØ TEE
0+003	92.62	90.220	22½° HORIZONTAL BEND
0+007	92.54	90.140	100mmØ VALVE AND VALVE BOX
0+020	92.39	89.990	TOP OF PIPE
0+025.1	92.46	90.060	100mmØ CAP AND THRUST BLOCK

50mmØ WATERMAIN G

STATION	FINISHED GRADE	TOP OF W/M	ITEM
0+000	92.75	90.350	50mmØ TVS OFF 200mmØ
0+010	92.86	90.460	50mmØ VALVE AND VALVE BOX
0+021.2	92.85	90.450	50mmØ TO 19mmØ REDUCER

100mmØ / 200mmØ WATERMAIN C

STATION	FINISHED GRADE	TOP OF W/M	ITEM
0+000	92.24	89.840	100mmØ CAP AND THRUST BLOCK
0+010	92.17	89.770	TOP OF PIPE
0+015.9	92.29	89.890	100mmØ VALVE AND VALVE BOX
0+018.8	92.35	89.950	11¼° HORIZONTAL BEND
0+021.4	92.41	90.010	11¼° HORIZONTAL BEND
0+022.9	92.44	90.040	100mmØ x 200mmØ REDUCER
0+024.4	92.46	90.060	200mmØ x 200mmØ TEE

100mmØ / 200mmØ WATERMAIN B

STATION	FINISHED GRADE	TOP OF W/M	ITEM
0+000	92.26	89.860	100mmØ CAP AND THRUST BLOCK
0+010	92.18	89.780	TOP OF PIPE
0+018.5	92.33	89.930	100mmØ VALVE AND VALVE BOX
0+021.5	92.40	90.000	200mmØ x 100mmØ REDUCER
0+024.5	92.46	90.060	200mmØ x 200mmØ CROSS
0+031.5	92.48	90.080	200mmØ VALVE AND VALVE BOX
0+034.6	92.51	90.110	11¼° HORIZONTAL BEND
0+040	92.52	90.120	150mmØ HYDRANT TEE
0+052.7	92.44	90.040	11¼° HORIZONTAL BEND
0+060	92.38	89.980	TOP OF PIPE
0+080.7	92.24	89.840	45° VERTICAL BEND
0+081.7	92.23	89.100	45° VERTICAL BEND
0+085.2	92.24	89.100	45° VERTICAL BEND
0+086.2	92.25	89.850	45° VERTICAL BEND
0+100	92.35	89.950	TOP OF PIPE
0+120	92.51	90.110	TOP OF PIPE
0+129.4	92.56	90.160	200mmØ VALVE AND VALVE BOX
0+132.4	92.60	90.200	200mmØ x 200mmØ TEE
0+140.5	92.64	90.240	150mmØ HYDRANT TEE
0+159	92.76	90.360	45° VERTICAL BEND
0+160	92.76	90.960	45° VERTICAL BEND
0+161	92.75	90.960	50mmØ TVS OFF 200mmØ
0+165.1	92.73	90.960	22½° HORIZONTAL BEND
0+166.1	92.72	90.960	45° VERTICAL BEND
0+167.1	92.71	90.310	45° VERTICAL BEND
0+168.4	92.71	90.310	200mmØ VALVE AND VALVE BOX
0+171.7	92.68	90.280	22½° HORIZONTAL BEND
0+180.7	92.70	90.300	200mmØ x 200mmØ TEE CONNECTION TO EX. 200mmØ WATERMAIN

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
L7-IC	111A	L111A	STM 111	0.81	11.65	IPEX TEMPEST MHF(3.25" ORFICE)
501-IC	501	L101A	STM 101	1.42	7	IPEX TEMPEST LMF 80
503-IC	503	L108A	STM 108	1.70	6	IPEX TEMPEST LMF 70
505-IC	505	L112A	STM 112	1.66	6	IPEX TEMPEST LMF 70
507-IC	507	L113A	STM 113	1.70	8	IPEX TEMPEST LMF 80
509-IC	509	L103A	STM 103	1.48	6	IPEX TEMPEST LMF 75
511-IC	511	L115A	STM 115	1.70	6	IPEX TEMPEST LMF 70
513-IC	513	L116A	STM 116	1.71	12	IPEX TEMPEST LMF 100
515-IC	515	L102A	STM 102	1.56	4	IPEX TEMPEST LMF 60
516-IC	516	L104A	STM 104	1.44	7	IPEX TEMPEST LMF 80
519-IC	519	L106A	STM 106	1.50	2	IPEX TEMPEST LMF 45

200mmØ WATERMAIN A

STATION	FINISHED GRADE	TOP OF W/M	ITEM
0+000	91.64	89.24±	200mmØ x 300mmØ TEE CONNECTION TO EX. 300mmØ WATERMAIN
0+016	91.72	89.320	200mmØ VALVE AND VALVE BOX
0+033.7	92.17	89.770	11¼° HORIZONTAL BEND
0+043.2	92.51	90.110	45° VERTICAL BEND
0+044.2	92.50	90.780	45° VERTICAL BEND
0+046.2	92.47	90.780	11¼° HORIZONTAL BEND
0+047.7	92.43	90.780	45° VERTICAL BEND
0+048.7	92.43	90.030	45° VERTICAL BEND
0+051	92.46	90.060	200mmØ x 200mmØ CROSS
0+054	92.47	90.070	200mmØ VALVE AND VALVE BOX
0+060	92.36	89.960	TOP OF PIPE
0+083.1	92.47	90.070	45° VERTICAL BEND
0+084.1	92.48	90.700	45° VERTICAL BEND
0+085.1	92.48	90.700	200mmØ VALVE AND VALVE BOX
0+088.1	92.46	90.700	45° VERTICAL BEND
0+089.1	92.46	90.060	45° VERTICAL BEND
0+091.1	92.46	90.060	200mmØ x 200mmØ TEE
0+093.1	92.50	90.100	45° VERTICAL BEND
0+094.1	92.50	90.940	45° VERTICAL BEND
0+097.1	92.48	90.940	45° VERTICAL BEND
0+098.1	92.48	90.080	45° VERTICAL BEND
0+099.6	92.47	90.070	200mmØ x 100mmØ TEE
0+102.6	92.46	90.060	200mmØ VALVE AND VALVE BOX
0+120	92.44	90.040	TOP OF PIPE
0+129.1	92.44	90.040	150mmØ HYDRANT TEE
0+136	92.43	90.030	45° VERTICAL BEND
0+137	92.43	90.770	45° VERTICAL BEND
0+138	92.42	90.770	45° VERTICAL BEND
0+139	92.41	90.010	45° VERTICAL BEND
0+142.5	92.41	90.010	200mmØ x 100mmØ TEE
0+160	92.41	90.010	TOP OF PIPE
0+181	92.46	90.060	45° VERTICAL BEND
0+182	92.47	90.770	45° VERTICAL BEND
0+184.9	92.52	90.770	22½° HORIZONTAL BEND
0+186	92.53	90.770	45° VERTICAL BEND
0+187	92.52	90.120	45° VERTICAL BEND
0+188.6	92.52	90.120	100mmØ x 200mmØ TEE
0+192.2	92.55	90.150	45° HORIZONTAL BEND
0+195.2	92.57	90.170	200mmØ VALVE AND VALVE BOX
0+198.2	92.60	90.200	200mmØ x 200mmØ TEE

Stantec

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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 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
- (DC; BARRIER / MOUNTABLE) 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.
- (2M) NUMBER OF WATER METERS
- (2RM) NUMBER OF REMOTE WATER METER
- (W) ADDITIONAL 19mmØ PEX WATER SERVICE FOR IRRIGATION.
- (C) CONTROL CENTER FOR IRRIGATION SYSTEM.
- (CMB) 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

NOTES:

1. ALL BLOCKS SHALL HAVE THE ROOF EAVES OUTLET TO THE PARKING LOT SIDE OR INTERNAL ROADS TO CONTAIN ROOF DRAINAGE ON SITE.
2. BACK TO BACK TOWNHOUSE FOOTING DRAINS TO BE CONNECTED TO PRIVATE STREET 2. TWO FOOTING DRAINS PER BLOCK.

Revision		By	Appd.	YY.MM.DD
1	ISSUED TO CITY FOR SPA	MJS	KS	18.12.18

File Name: 160401422-DB	Dwn.	Chkd.	Dsgn.	YY.MM.DD
	MJS	KS	MJS	18.08.24

Permit-Seal

LICENSED PROFESSIONAL ENGINEER
K.L. SMADELLA
2018-12-20
PROVINCE OF ONTARIO

Client/Project
RICHCRAFT HOMES

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 1

ORIGINAL SHEET - ARCH D

W:\active\160401422_Richcraft Block 221 Riverside\design\drawing\160401422-DB.dwg
2018/12/20 2:54 PM By: Rathnasooriya, Thakshika