

- NOTES:**
- REFER TO DRAWING C0.1 FOR NOTES AND FULL LEGEND.
 - ALL WATER SERVICES SHALL BE 50mmØ COPPER.
 - NEW WATER METER PER CITY OF OTTAWA STANDARD DETAIL W32 HOUSED IN A VALVE CHAMBER PER CITY STANDARD DETAIL W3. METER ASSEMBLY DIMENSIONS TO BE SPECIFIED BY THE CITY. THE INTERIOR BUILDING PLUMBING SHALL INCLUDE PRESSURE REDUCING VALVES ON ALL WATER SERVICES FOR BLOCKS 5, 6 AND 7.

ROBERT GRANT AVENUE

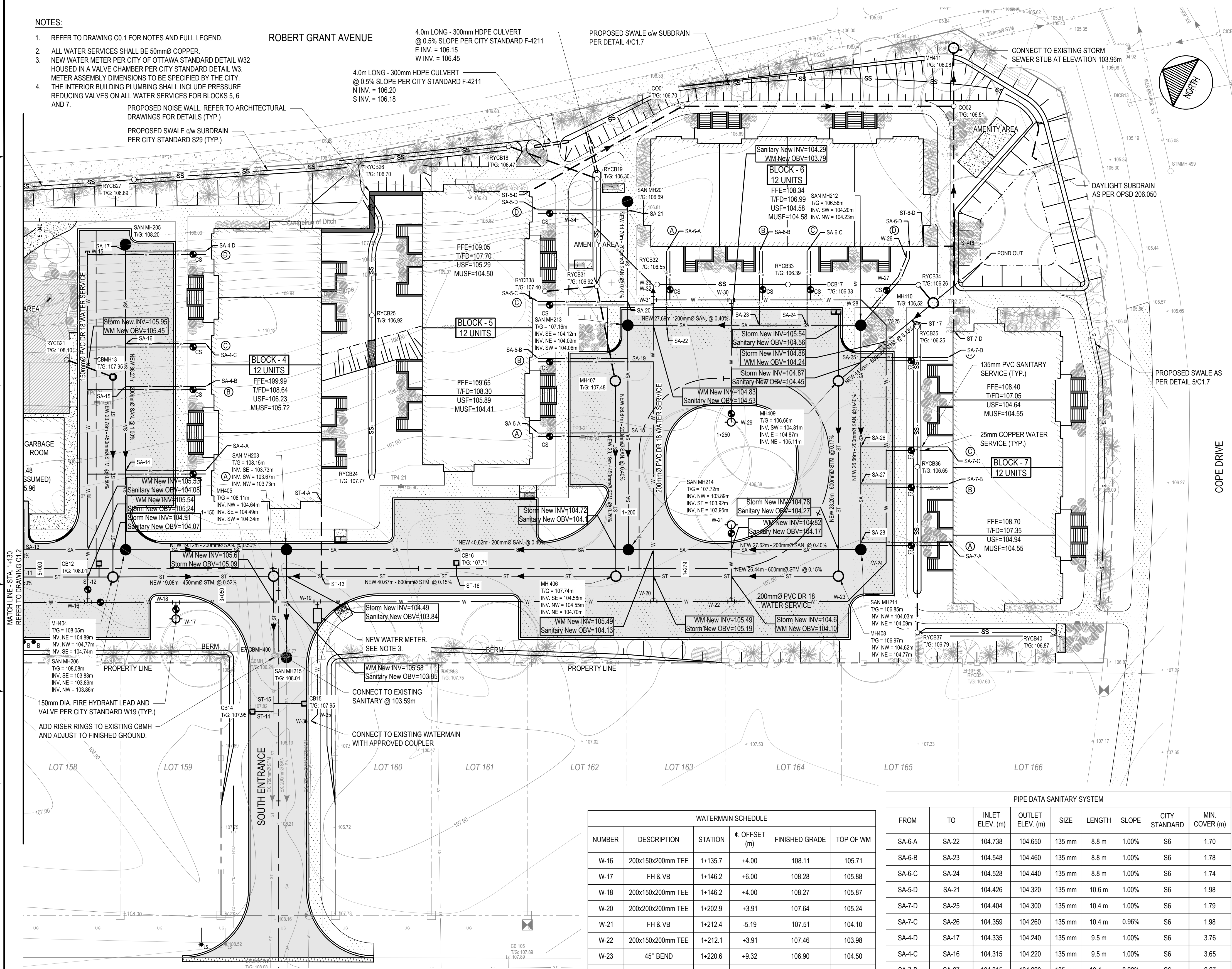
4.0m LONG - 300mm HDPE CURB
@ 0.5% SLOPE PER CITY STANDARD F-4211
E INV. = 106.15
W INV. = 106.45

PROPOSED SWALE c/w SUBDRAIN
PER DETAIL 4/C1.7

4.0m LONG - 300mm HDPE CURB
@ 0.5% SLOPE PER CITY STANDARD F-4211
N INV. = 106.20
S INV. = 106.18

PROPOSED NOISE WALL REFER TO ARCHITECTURAL
DRAWINGS FOR DETAILS (TYP.)

PROPOSED SWALE c/w SUBDRAIN
PER CITY STANDARD S29 (TYP.)



STRUCTURE DATA STORM SYSTEM							
NUMBER	STATION	± OFFSET (m)	TOP OF GRATE	LOW INVERT	STRUCTURE (OPSD)	GRATE (OPSD)	SUMP (m)
CB12	1+137.1	-0.60	108.010	105.810	705.010	S19.1	0.60
CB14	3+035.6	-3.06	107.950	105.750	705.010	S19.1	0.60
CB15	3+036.6	+3.08	107.950	105.750	705.010	S19.1	0.60
CB16	1+179.5	-0.67	107.710	105.510	705.010	S19.1	0.60
CBMH13	5+022.8	+1.99	107.950	105.010	701.010	S19.1	0.60
CO01	1+251.8	+32.51	106.700	104.472	701.010	S24.1	0.30
CO02	1+241.7	+38.67	106.510	104.090	701.010	S24.1	0.30
DCB17	1+241.6	+10.69	106.380	105.170	705.020	S19.1	0.60
MH406	1+198.5	+0.90	107.735	104.550	701.011	S24.1	0.30
MH404	1+138.7	+1.00	108.051	104.740	701.010	S24.1	0.30
MH405	1+157.8	+0.90	108.108	104.340	701.012	S24.1	0.30
MH407	1+259.4	+5.68	107.476	104.760	701.010	S24.1	0.30
MH408	1+221.3	+6.37	106.966	104.620	701.011	S24.1	0.30
MH409	1+238.7	+4.31	106.657	104.810	701.011	S24.1	0.30
MH410	1+238.6	+18.91	106.518	104.889	701.010	S24.1	0.30
MH411	1+242.3	+44.78	106.081	103.960	701.010	S24.1	0.30
RYCB18	1+256.3	+35.04	106.470	105.392	705.010	S19.1	0.60
RYCB19	1+254.7	+26.56	106.300	105.215	S31	S31	0.00
RYCB21	5+024.8	-3.51	108.100	105.980	705.010	S19.1	0.60
RYCB24	1+169.5	-10.84	107.770	106.093	S31	S31	0.00
RYCB25	1+169.5	-30.10	106.920	105.872	S30	S30	0.00
RYCB26	1+259.0	+45.73	106.696	105.630	S30	S30	0.00
RYCB27	1+141.2	-46.22	106.889	105.927	S30	S30	0.00
RYCB31	1+256.5	+15.38	106.920	104.960	S30	S30	0.00
RYCB32	1+254.0	+12.28	106.550	105.345	S31	S31	0.00
RYCB33	1+244.6	+11.56	106.395	105.155	S30	S30	0.00
RYCB34	1+239.5	+19.07	106.257	104.978	705.010	S19.1	0.60
RYCB35	1+238.2	+15.63	106.250	105.110	705.010	S19.1	0.60
RYCB36	1+230.8	+10.45	106.650	105.306	S30	S30	0.00
RYCB37	1+222.1	+17.78	106.790	104.725	S30	S30	0.00
RYCB40	1+225.1	+31.30	106.871	103.632	S31	S31	0.00

PIPE DATA STORM SYSTEM								
FROM	TO	INLET ELEV. (m)	OUTLET ELEV. (m)	SIZE	LENGTH	SLOPE	CITY STANDARD	MIN. COVER (m)
RYCB24	RYCB25	106.093	105.900	250 mm	19.3 m	1.00%	S29	0.76
RYCB21	CBMH13	105.980	105.921	250 mm	5.9 m	1.00%	S6	1.77
RYCB27	RYCB26	105.927	105.660	250 mm	26.7 m	1.00%	S29	0.70
RYCB25	RYCB26	105.872	105.690	250 mm	18.2 m	1.00%	S29	0.75
CB12	ST-12	105.810	105.794	300 mm	1.6 m	1.00%	S6	1.89
CB15	ST-15	105.750	105.713	300 mm	3.7 m	1.00%	S6	1.90
CB14	ST-14	105.750	105.725	300 mm	2.5 m	1.00%	S6	1.90
RYCB26	RYCB18	105.630	105.450	250 mm	18.0 m	1.00%	S29	0.76
CB16	ST-16	105.510	105.494	300 mm	1.6 m	1.00%	S6	1.89
POND OUT	MH410	105.500	105.189	300 mm	8.0 m	3.90%	S6	-0.31
RYCB18	RYCB19	105.392	105.280	250 mm	11.2 m	1.00%	S29	0.76
RYCB32	RYCB33	105.345	105.190	250 mm	15.5 m	1.00%	S29	0.95
RYCB36	RYCB35	105.306	105.140	250 mm	16.6 m	1.00%	S29	0.85
RYCB19	RYCB31	105.215	105.020	250 mm	12.7 m	1.53%	S29	0.83
DCB17	MH409	105.170	105.110	300 mm	8.2 m	0.73%	S6	0.92
RYCB33	RYCB34	105.155	105.000	250 mm	15.5 m	1.00%	S29	0.98
RYCB35	ST-17	105.110	105.100	250 mm	1.0 m	1.00%	S6	0.88
CBMH13	MH404	105.010	104.890	450 mm	23.8 m	0.50%	S6	2.48
RYCB34	MH410	104.978	104.950	250 mm	2.8 m	1.00%	S6	1.02
RYCB31	MH407	104.960	104.910	250 mm	11.5 m	0.44%	S29	1.70
MH410	MH409	104.889	104.870	600 mm	14.6 m	0.13%	S6	0.79
MH409	MH408	104.810	104.770	600 mm	23.2 m	0.17%	S6	1.14
ST-4-A	ST-13	104.790	104.700	300 mm	8.9 m	1.01%	S6	3.10
MH407	MH406	104.760	104.700	450 mm	23.2 m	0.26%	S6	2.25
MH404	MH405	104.740	104.640	450 mm	19.1 m	0.52%	S6	2.85
RYCB37	RYCB36	104.725	105.340	250 mm	19.7 m	-3.13%	S29	1.05
ST-5-D	CO01	104.708	104.500	250 mm	20.8 m	1.00%	S6	1.90
MH408	MH406	104.620	104.580	600 mm	26.4 m	0.15%	S6	1.64
MH406	MH405	104.550	104.490	600 mm	40.7 m	0.15%	S6	2.48
CO01	CO02	104.472	104.150	9.5 m	32.2 m	1.00%	S6	1.98
ST-7-D	CO02	104.340	104.120	250 mm	26.7 m	0.82%	S6	1.78
MH405	EX CBMH400	104.340	104.330	750 mm	9.4 m	0.11%	S6	2.81
ST-6-D	ST-18	104.300	104.260	250 mm	3.6 m	1.12%	S6	1.83
CO02	MH411	104.090	104.020	250 mm	6.9 m	1.01%	S6	1.63
RYCB40	RYCB37	103.632	103.416	250 mm	16.2 m	1.34%	S29	2.98

PIPE DATA SANITARY SYSTEM								
FROM	TO	INLET ELEV. (m)	OUTLET ELEV. (m)	SIZE	LENGTH	SLOPE	CITY STANDARD	MIN. COVER (m)
SA-6-A	SA-22	104.738	104.650	135 mm	8.8 m	1.00%	S6	1.70
SA-6-B	SA-23	104.548	104.460	135 mm	8.8 m	1.00%	S6	1.78
SA-6-C	SA-24	104.528	104.440	135 mm	8.8 m	1.00%	S6	1.74
SA-5-D	SA-21	104.426	104.320	135 mm	10.6 m	1.00%	S6	1.98
SA-7-D	SA-25	104.404	104.300	135 mm	10.4 m	1.00%	S6	1.79
SA-7-C	SA-26	104.359	104.260	135 mm	10.4 m	0.96%	S6	1.98
SA-4-D	SA-17	104.335	104.240	135 mm	9.5 m	1.00%	S6	3.76
SA-4-C	SA-16	104.315	104.220	135 mm	9.5 m	1.00%	S6	3.65
SA-7-B	SA-27	104.315	104.220	135 mm	10.4 m	0.92%	S6	2.27
SA-5-C	SA-20	104.306	104.200	135 mm	10.6 m	1.00%	S6	2.81
SA-7-A	SA-28	104.298	104.200	135 mm	10.4 m	0.94%	S6	2.40
SA-4-B	SA-15	104.265	104.170	135 mm	9.5 m	1.00%	S6	3.70
SAN MH205	SAN MH206	104.253	103.890	200 mm	36.3 m	1.00%	S6	3.67
SA-5-B	SA-19	104.217	104.110	135 mm	10.7 m	1.00%	S6	3.07
SA-5-A	SA-18	104.177	104.070	135 mm	10.7 m	1.00%	S6	3.34
SA-4-A	SA-14	104.165	104.070	135 mm	9.5 m	1.00%	S6	3.91
SAN MH201	SAN MH213	104.149	104.090	200 mm	14.7 m	0.40%	S6	2.34
SAN MH213	SAN MH214	104.057	103.950	200 mm	26.7 m	0.40%	S6	2.89
SAN MH214	SAN MH203	103.892	103.730	200 mm	40.6 m	0.40%	S6	3.62
SAN MH206	SAN MH203	103.826	103.730	200 mm	19.1 m	0.50%	S6	4.05
SAN MH203	SAN MH215	103.671	103.620	200 mm	12.8 m	0.40%	S6	4.19

WATERMAIN SCHEDULE					
NUMBER	DESCRIPTION	STATION	± OFFSET (m)	FINISHED GRADE	TOP OF WM
W-16	200x150x200mm TEE	1+135.7	+4.00	108.11	105.71
W-17	FH & VB	1+146.2	+6.00	108.28	105.88
W-18	200x150x200mm TEE	1+146.2	+4.00	108.27	105.87
W-20	200x200x200mm TEE	1+202.9	+3.91	107.64	105.24
W-21	FH & VB	1+212.4	-5.19	107.51	104.10
W-22	200x150x200mm TEE	1+212.1	+3.91	107.46	103.98
W-23	45° BEND	1+220.6	+9.32	106.90	104.50
W-24	45° BEND	1+224.1	+9.92	106.88	104.48
W-25	45° BEND	1+239.2	+13.01	106.58	104.18
W-26	22.5° BEND	1+240.5	+20.56	106.72	103.57
W-27	22.5° BEND	1+240.3	+18.18	106.51	104.11
W-28	45° BEND	1+240.9	+13.35	106.52	104.12
W-29	FIRE HYDRANT	1+249.1	-5.20	107.18	104.78
W-30	200x150x200mm TEE	1+249.1	+9.32	106.81	104.14
W-31	200x25x200mm TEE	1+254.4	+10.73	107.06	104.66
W-32	REDUCER	1+254.2	+11.99	106.73	104.33
W-33	45° BEND	1+254.2	+12.34	106.65	104.25
W-34	45° BEND	1+253.6	+23.74	106.86	104.46
W-35	45° BEND	1+163.0	+17.36	108.13	105.73
W-36	CONNECT TO EX.	1+162.3	+18.11	108.12	105.72

STRUCTURE DATA SANITARY SYSTEM							
NUMBER	STATION	± OFFSET (m)	TOP OF GRATE	LOW INVERT	STRUCTURE (OPSD)	GRATE (OPSD)	SUMP (m)
SAN MH201	1+254.0	+22.76	106.693	104.149	701.010	S24	0.00
SAN MH203	1+159.3	-2.25	108.145	103.671	701.010	S24	0.00
SAN MH205	5+038.5	+3.49	108.202	104.253	701.010	S24	0.00
SAN MH206	1+140.2	-2.24	108.081	103.826	701.010	S24	0.00
SAN MH211	1+224.0	+6.52	106.855	104.030	701.010	S24	0.00
SAN MH212	1+240.2	+10.93	106.582	104.197	701.010	S24	0.00
SAN MH213	1+256.4	+9.48	107.156	104.057	701.010	S24	0.00
SAN MH214	1+276.5	+1.27	107.715	103.892	701.010	S24	0.00
SAN MH215	3+042.0	+0.98	108.014	103.590	701.010	S24	0.00

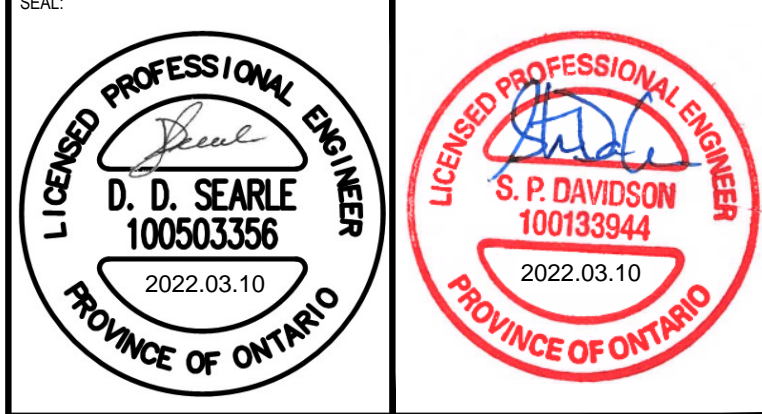
APPROVED
By Allison Hamlin at 5:28 pm, Jun 28, 2022

Allison Hamlin

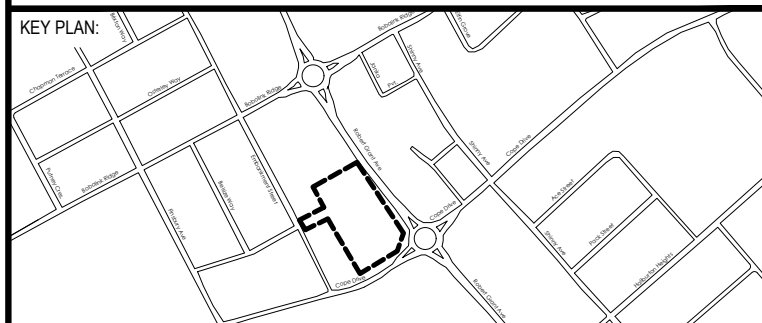
ALLISON HAMLIN
MANAGER (A), DEVELOPMENT REVIEW WEST
PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT
DEPARTMENT, CITY OF OTTAWA



1224 GARDINERS ROAD, SUITE 201
KINGSTON, ONTARIO
CANADA K7P 0G2
PHONE: 613-634-7373
WWW.WSP.COM



TERRACE FLATS



DISCLAIMER: THIS DRAWING AND DESIGN IS COPYRIGHT PROTECTED WHICH SHALL NOT BE USED, REPRODUCED OR PRESENTED WITHOUT WRITTEN PERMISSION BY WSP. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND UTILITY LOCATIONS AND REPORT ALL ERRORS AND OMISSIONS PRIOR TO COMMENCING WORK. THIS DRAWING IS NOT TO BE SCALED.

ISSUED FOR - REVISION	NO.	DATE	DESCRIPTION
4	2022-03-10	RE-ISSUED FOR SPA	
3	2022-01-31	RE-ISSUED FOR SPA	
2	2021-10-15	RE-ISSUED FOR SPA	
1	2021-07-07	ISSUED FOR SPA	

PROJECT NO.	DATE
211-01221-00	MARCH 2021

ORIGINAL SCALE: 1:250
DESIGNED BY: DS
DRAWN BY: MH
CHECKED BY: SH
DISCIPLINE: CIVIL