

Legend

- PROPOSED WATERMAIN
- PROPOSED VALVE AND VALVE BOX
- PROPOSED REDUCER
- PROPOSED FIRE HYDRANT
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED CATCHBASIN MANHOLE
- PROPOSED CATCHBASIN
- EXISTING WATERMAIN
- EXISTING VALVE AND VALVE BOX
- EXISTING REDUCER
- EXISTING FIRE HYDRANT
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING CATCHBASIN MANHOLE
- EXISTING CATCHBASIN
- PROPOSED DEPRESSION CURB LOCATIONS
- PROPOSED BARRIER CURBS
- 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 W2.2.
- WATER METER
- REMOVE WATER METER
- HOSE BIB
- PROPOSED 2H RATED FIRE WALL LOCATION
- BACK TO BACK TERRACE HOME SERVICES
- 200mm STORM SERVICE PVC 32R 28 @ 1% MIN
- 150mm SANITARY SERVICE PVC 50R 28 @ 1% MIN
- 19mm PEX TUBING WATER SERVICE C/W CURB STOP AND SERVICE POST
- BACK TO BACK TERRACE HOME SERVICE ELEVATIONS.

Notes

- CONTRACTOR TO VERIFY EXISTING SEWER SIZE AND ELEVATIONS AND NOTIFY THE PROJECT ENGINEER PRIOR TO PROCEEDING WITH SEWER CONSTRUCTION.

Revision	By	Appd.	YY.MM.DD
5	MJS	KS	23.05.31
4	MJS	KS	23.03.28
3	MJS	KS	23.02.27
2	MJS	DT	22.12.05
1	MJS	DT	22.09.27
0	MJS	DT	21.12.13

File Name:	MJS	DT	MJS	21.12.22
16401710DB	Dwn.	Chkd.	Dgn.	YY.MM.DD

Permit-Seal

Client/Project
MATTAMY HOMES LTD.

ORLEANS DECOEUR RESIDENTIAL DEVELOPMENT
2370 TENTH LINE ROAD
OTTAWA, ON, CANADA

Title
SITE SERVICING PLAN

Project No.	Scale	0 5 15 25m
16401710	1:500	
Drawing No.	Sheet	Revision
SSP-1	3 of 7	5

200mmØ WATERMAIN A

STA:	FINISHED GRADE	TOP W/M	ITEM
0+000	88.25	85.84±	200mmØ TEE TO EX. 300mmØ WATERMAIN
0+010.3	88.37	85.970	200mmØ VALVE AND VALVE BOX
0+038.5	88.41	85.010	45° HORIZONTAL BEND
0+048.7	88.31	85.910	45° HORIZONTAL BEND
0+073.2	88.28	85.880	150mmØ FIRE HYDRANT TEE
0+075.5	88.28	85.880	200mmØ x 200mmØ TEE
0+078.5	88.28	85.880	200mmØ VALVE AND VALVE BOX
0+100	88.04	85.640	TOP OF PIPE
0+103.5	88.08	85.680	45° VERTICAL BEND
0+101.5	88.08	85.530	45° VERTICAL BEND
0+104.7	88.02	85.530	200mmØ x 200mmØ TEE
0+112.1	87.99	85.530	200mmØ x 150mmØ TEE
0+113.1	88.00	85.530	45° VERTICAL BEND
0+114.1	88.02	85.620	45° VERTICAL BEND
0+118.1	88.10	85.700	200mmØ VALVE AND VALVE BOX
0+140	87.99	85.590	TOP OF PIPE
0+140	88.15	85.750	TOP OF PIPE
0+148.7	88.11	86.000	PIPE CROSSING AS PER W2.2
0+171.7	88.11	85.710	200mmØ VALVE AND VALVE BOX
0+200	87.84	85.440	TOP OF PIPE
0+220	87.77	85.370	TOP OF PIPE
0+228.2	87.84	85.760	PIPE CROSSING AS PER W2.2
0+231.2	87.86	85.460	200mmØ x 150mmØ TEE
0+242.7	87.97	85.570	22.5° HORIZONTAL BEND
0+255.9	87.81	85.410	22.5° HORIZONTAL BEND
0+261.2	87.77	85.370	200mmØ x 200mmØ TEE
0+264.8	87.74	85.340	150mmØ FIRE HYDRANT TEE
0+270.3	87.69	85.290	200mmØ VALVE AND VALVE BOX
0+288.7	87.59	85.300	PIPE CROSSING AS PER W2.2
0+291.7	87.64	85.240	200mmØ x 150mmØ TEE
0+321.1	87.72	85.320	W3 WATER CHAMBER AS PER CITY OF OTTAWA
0+333.4	87.67	85.590	PIPE CROSSING AS PER W2.2
0+339.7	87.66	85.30±	200mmØ TEE TO EX. 300mmØ WATERMAIN

150mmØ WATERMAIN C

STA:	FINISHED GRADE	TOP W/M	ITEM
2+000	87.64	85.240	250mmØ x 150mmØ TEE
2+003	87.82	85.420	150mmØ VALVE AND VALVE BOX
2+020	88.10	85.700	TOP OF PIPE
2+029.3	88.17	85.770	CAPPED END PER W37.2

150mmØ WATERMAIN D

STA:	FINISHED GRADE	TOP W/M	ITEM
3+000	87.86	85.460	200mmØ x 150mmØ TEE
3+003	87.94	85.540	150mmØ VALVE AND VALVE BOX
3+020	88.24	85.840	TOP OF PIPE
3+029.3	88.35	85.950	CAPPED END PER W37.2

150mmØ WATERMAIN E

STA:	FINISHED GRADE	TOP W/M	ITEM
4+000	88.11	85.710	200mmØ x 150mmØ TEE
4+003	88.17	85.770	150mmØ VALVE AND VALVE BOX
4+020	88.57	86.170	TOP OF PIPE
4+029.3	88.65	86.250	CAPPED END PER W37.2

150mmØ WATERMAIN F

STA:	FINISHED GRADE	TOP W/M	ITEM
5+000	88.00	85.930	200mmØ x 150mmØ TEE
5+003	88.03	85.630	150mmØ VALVE AND VALVE BOX
5+020	88.45	86.050	TOP OF PIPE
5+029.3	88.50	86.100	CAPPED END PER W37.2

150mmØ WATERMAIN BLDG A

STA:	FINISHED GRADE	TOP W/M	ITEM
6+000	88.20	85.800	200mmØ x 150mmØ TEE
6+003	88.17	85.770	150mmØ VALVE AND VALVE BOX
6+020	88.37	85.970	TOP OF PIPE
6+025.3	88.58	86.180	150mmØ CAP AND THRUST BLOCK

150mmØ WATERMAIN BLDG B

STA:	FINISHED GRADE	TOP W/M	ITEM
7+000	88.24	85.840	200mmØ x 150mmØ TEE
7+003	88.20	85.800	150mmØ VALVE AND VALVE BOX
7+020	88.36	85.960	TOP OF PIPE
7+024.8	88.55	86.150	150mmØ CAP AND THRUST BLOCK

SEWER AND WATERMAIN CROSSING TABLE

CROSSING	STW INV	STW OBV	SAN INV	SAN OBV	WTR TOP	WTR BTM
84.00(88.85)	85.20(85.35)	82.36	82.61	85.95	85.70	
84.00(88.85)	85.20(85.35)	83.45	83.70		85.92	
	85.22	85.42	83.52	83.77	86.12	85.92
		84.48	84.88	86.63	85.43	
85.34	85.54	83.63	83.88	86.24	86.04	
84.49(84.33)	85.32(85.47)	83.49	83.94	86.22	85.97	
	85.41	85.61	83.75	84.00	86.31	86.11
		84.86	85.06	85.76	85.56	
	85.41	85.61	83.87	84.12	86.31	86.11
	85.67	85.87	83.96	84.21	86.57	86.37
84.71(84.60)	84.48(85.57)	84.05	84.30			
	85.13	85.33	86.03	85.83		
	85.67	85.87	84.78	85.03	86.57	86.37
	85.57	85.77	84.87	85.12	86.47	86.24
		85.03	85.23	85.93	85.73	
85.30(85.22)	85.75(85.83)	84.98	85.23	86.45	86.25	
	85.63	85.83	84.99	85.24	86.53	86.33
	85.43(85.35)	85.88(85.94)	84.41	84.66	86.58	84.38
	86.57	86.77	86.22	86.37		
	85.32	85.62	84.22	84.47		
	86.17	86.47	84.80	85.00		
	86.18	86.48	85.80	86.05	85.30	85.10
	86.33	86.63	86.00	86.15		
83.93(83.78)	85.13(85.28)	82.23	82.48	85.83	85.78	
83.93(83.78)	85.13(85.28)	85.40	85.55			

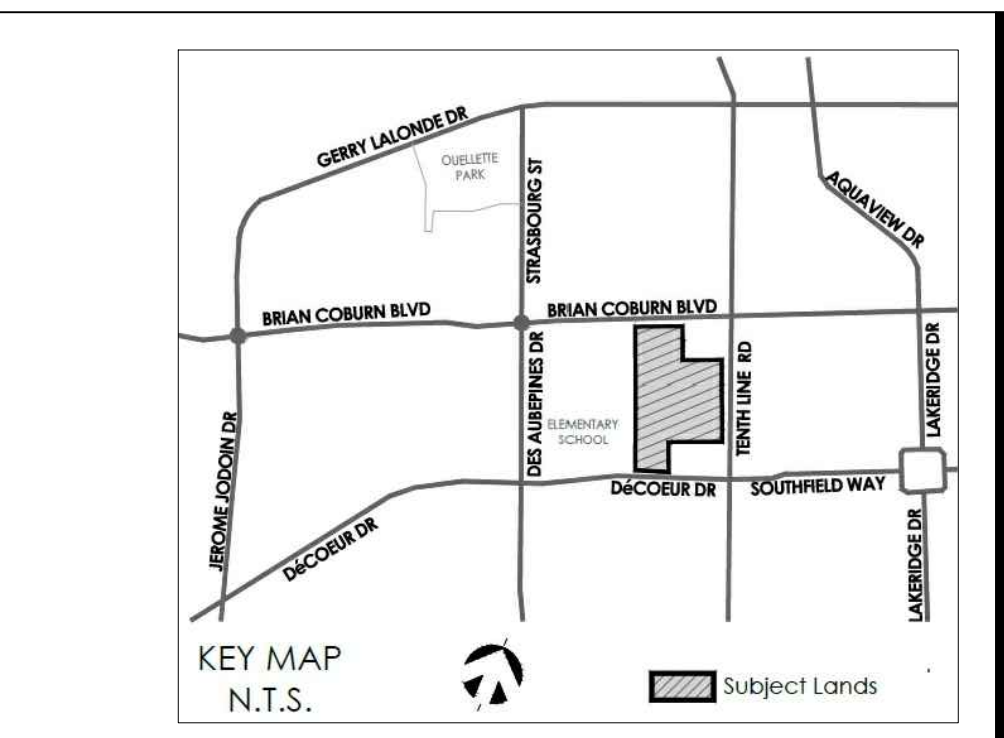
* BRACKETS DENOTE ADJUSTED VALUE WITH CONCRETE PIPE THICKNESS

SCHEDULE OF ROOF RELEASE RATES

DRAIN TYPE	TRIBUTARY AREA ID	# OF DRAINS	100YR HEAD (m)	100YR RELEASE RATE (L/s)	100YR FLOW VOLUME (m³)	100YR FLOW VOLUME (PROVIDED) (m³)
WAITS ACCURFLOW (25% OPEN)	R10A	14	0.15	12.28	25.28	40.00
WAITS ACCURFLOW (25% OPEN)	R10A	14	0.15	12.28	25.28	40.00
WAITS ACCURFLOW (25% OPEN)	R10B	14	0.15	12.28	25.28	40.00

ICD TABLE

CATCHBASIN ID	TRIBUTARY AREA ID	ICD TYPE	SYR HEAD (m)	100YR HEAD (m)	SYR FLOW (L/s)	100YR FLOW (L/s)
CB 101A-1	L101A	178mm HF ORIFICE	1.23	1.68	69.79	81.43
CB 103A-1	L103A	178mm HF ORIFICE	1.53	1.68	77.99	81.72
CB 104A-1	L104A	178mm HF ORIFICE	1.53	1.68	77.99	81.72
CB 104B-1	L104B	178mm HF ORIFICE	1.53	1.68	77.99	81.72
CB 105A-1	L105A	152mm HF ORIFICE	0.28	1.53	24.52	56.87
CB 106A-1	L106A	127mm HF ORIFICE	1.53	1.63	39.70	40.98
CB 108A-1	L108A	178mm HF ORIFICE	1.53	1.68	77.99	81.72
CB 109A-1	L109A	178mm HF ORIFICE	1.53	1.68	77.99	81.72



200mmØ WATERMAIN B

STA:	FINISHED GRADE	TOP W/M	ITEM
1+000	88.02	86.530	200mmØ x 200mmØ TEE
1+005	87.94	86.530	PIPE CROSSING AS PER W2.2
1+009	87.95	85.550	200mmØ VALVE AND VALVE BOX
1+020	88.21	85.810	TOP OF PIPE
1+040	88.66	86.260	TOP OF PIPE
1+056.5	88.58	86.180	45° HORIZONTAL BEND
1+063.8	88.36	85.960	45° HORIZONTAL BEND
1+075.6	88.21	85.810	200mmØ x 150mmØ TEE
1+097.7	88.15	85.750	150mmØ FIRE HYDRANT TEE
1+132.7	88.16	85.300	PIPE CROSSING AS PER W2.2
1+139.9	88.20	85.800	200mmØ VALVE AND VALVE BOX
1+142	88.15	85.750	150mmØ FIRE HYDRANT TEE
1+180	88.15	85.750	TOP OF PIPE
1+196.2	88.18	85.780	200mmØ x 150mmØ TEE
1+207.9	88.35	85.950	45° HORIZONTAL BEND
1+214	88.45	86.050	45° HORIZONTAL BEND
1+230	88.50	86.100	TOP OF PIPE
1+250	88.18	85.780	TOP OF PIPE
1+261.4	87.72	86.220	PIPE CROSSING AS PER W2.2
1+264.8	87.75	85.350	200mmØ VALVE AND VALVE BOX
1+264.3	87.77	85.370	200mmØ x 200mmØ TEE

