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+038.8	88.41	86.010	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	88.06	85.660	TOP OF PIPE
0+105.5	88.00	85.600	45° VERTICAL BEND
0+106.5	88.00	85.930	45° VERTICAL BEND
0+107.5	87.99	85.930	200mmØ x 200mmØ TEE
0+112.1	87.99	85.930	200mmØ x 150mmØ TEE
0+113.1	88.00	85.930	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+160	88.15	85.750	TOP OF PIPE
0+168.7	88.11	86.030	PIPE CROSSING AS PER W25.2
0+171.7	88.11	85.710	200mmØ x 150mmØ TEE
0+174.5	88.12	85.720	150mmØ FIRE HYDRANT TEE
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 W25.2
0+231.2	87.86	85.460	200mmØ x 150mmØ TEE
0+242.7	87.97	85.570	22½° HORIZONTAL BEND
0+255.9	87.81	85.410	22½° HORIZONTAL BEND
0+261.1	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	85.630	PIPE CROSSING AS PER W25.2
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	85.930	PIPE CROSSING AS PER W25.2
0+339.7	87.66	85.30±	200mmØ TEE TO EX. 300mmØ WATERMAIN

200mmØ WATERMAIN B

STA:	FINISHED GRADE	TOP W/M	ITEM
1+000	88.00	85.930	200mmØ x 200mmØ TEE
1+005	87.94	86.450	PIPE CROSSING AS PER W25.2
1+009	87.96	85.560	200mmØ VALVE AND VALVE BOX
1+020	88.21	85.810	TOP OF PIPE
1+040	88.66	86.260	TOP OF PIPE
1+057.4	88.55	86.150	45° HORIZONTAL BEND
1+063.4	88.36	85.960	45° HORIZONTAL BEND
1+075.2	88.24	85.840	200mmØ x 150mmØ TEE
1+112.3	88.16	85.760	150mmØ FIRE HYDRANT TEE
1+132.7	88.16	85.300	PIPE CROSSING AS PER W25
1+139.5	88.21	85.810	200mmØ VALVE AND VALVE BOX
1+158.6	88.16	85.760	150mmØ FIRE HYDRANT TEE
1+180	88.15	85.750	TOP OF PIPE
1+195.8	88.20	85.800	200mmØ x 150mmØ TEE
1+207.5	88.37	85.970	45° HORIZONTAL BEND
1+213.5	88.44	86.040	45° HORIZONTAL BEND
1+230	88.50	86.100	TOP OF PIPE
1+250	88.18	85.780	TOP OF PIPE
1+256.9	88.02	85.620	200mmØ VALVE AND VALVE BOX
1+261.4	87.72	86.220	PIPE CROSSING AS PER W25.2
1+265.9	87.77	85.370	200mmØ x 200mmØ TEE

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+025.8	88.63	86.230	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+025.9	88.63	86.230	150mmØ CAP AND THRUST BLOCK

150mmØ WATERMAIN BLDG C

STA:	FINISHED GRADE	TOP W/M	ITEM
8+000	88.28	85.880	200mmØ x 200mmØ TEE
8+005	88.30	86.580	PIPE CROSSING AS PER W25.2
8+008.5	88.32	85.920	200mmØ VALVE AND VALVE BOX
8+014.5	88.35	85.950	200mmØ TO 150mmØ REDUCER
8+022.5	88.40	86.000	45° HORIZONTAL BEND
8+032.5	88.57	86.170	45° HORIZONTAL BEND
8+038.8	88.67	86.270	150mmØ CAP AND THRUST BLOCK

SEWER AND WATERMAIN CROSSING TABLE

CROSSING	STM INV	STM OBV	SAN INV	SAN OBV	WTR TOP	WTR BTM
1	84.00(83.85)	85.20(85.35)	82.36	82.61	85.95	85.70
2	84.00(83.85)	85.20(85.35)	83.45	83.70		
3	85.61	85.81	83.52	83.77	85.40	85.20
4			84.68	84.88	85.63	85.43
5	85.63	85.83	83.63	83.88	85.26	85.06
6	84.49(84.33)	85.32(85.47)	83.69	83.94	86.22	85.97
7	85.66	85.86	83.75	84.00	85.46	85.21
8			84.86	85.06	85.76	85.56
9	85.70	85.90	83.87	84.12	85.39	85.19
10	85.97	86.17	83.96	84.21	85.54	85.34
11	84.71(84.60)	84.46(85.57)	84.05	84.30		
12			85.13	85.33	86.03	85.83
13	85.97	86.17	84.78	85.03	85.74	85.54
14	85.97	86.17	84.87	85.12	85.75	85.55
15			85.03	85.23	85.93	85.73
16	85.30(85.22)	85.75(85.83)	84.98	85.23	86.45	86.25
17	85.93	86.13	84.99	85.24	85.63	85.43
18	85.43(85.35)	85.88(85.96)	84.41	84.66	86.58	86.38
19	86.57	86.77	86.22	86.37		
20	85.36	85.66	84.22	84.47		
21	86.17	86.47	84.80	85.00		
22	86.18	86.48	85.80	86.05	85.30	85.10
23	86.33	86.63	86.00	86.15		

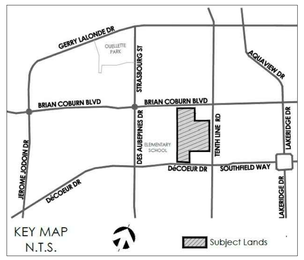
* BRACKETS DENOTE ADJUSTED VALUE WITH CONCRETE PIPE THICKNESS

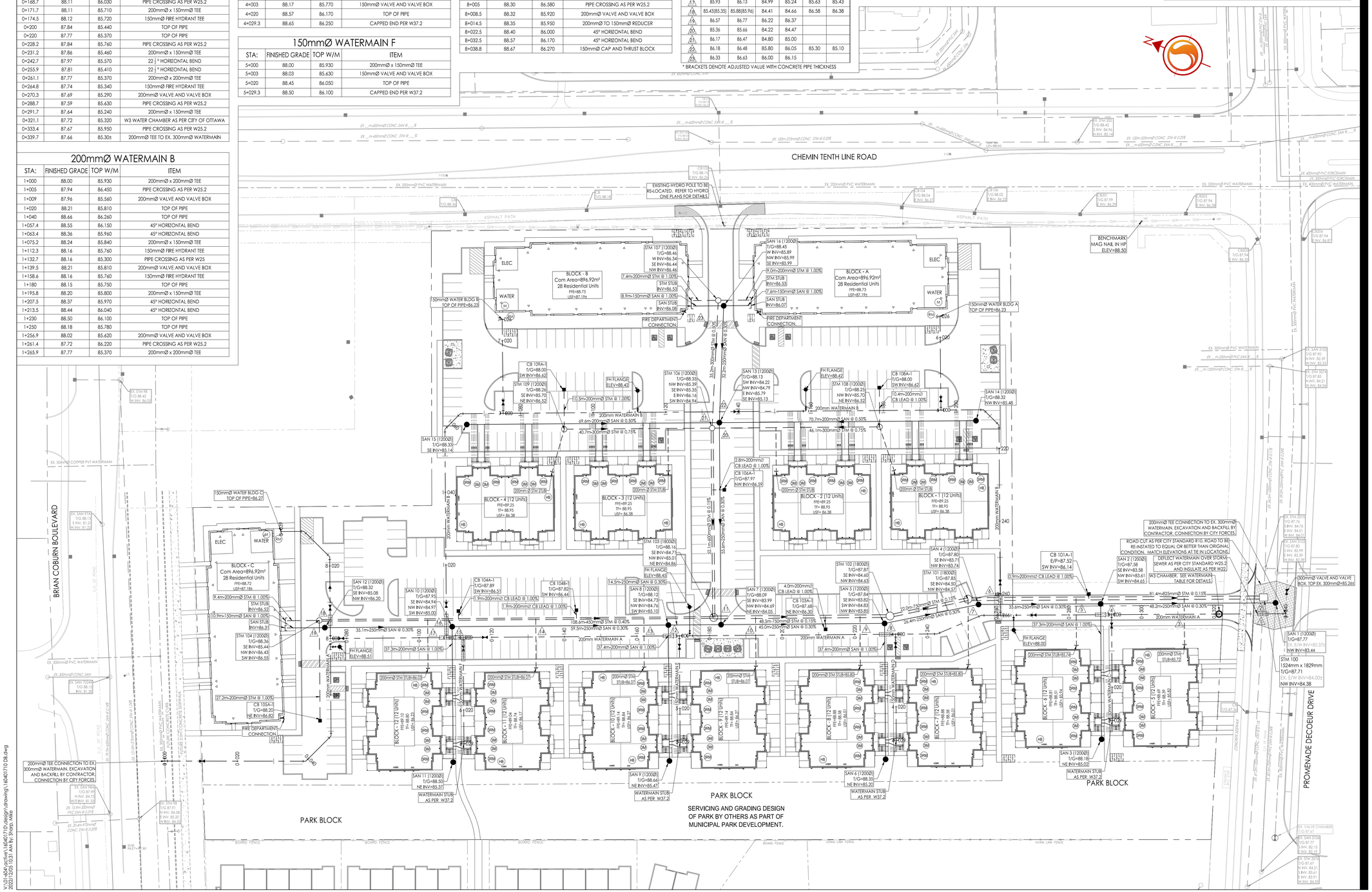
SCHEDULE OF ROOF RELEASE RATES

DRAIN TYPE	TRIBUTARY AREA ID	# OF DRAINS	100YR Head (m)	100YR RELEASE RATE (L/s)	100YR PONDING VOLUME REQUIRED (m³)	100YR PONDING VOLUME PROVIDED (m³)
WATTS ACCUFLOW (25% OPEN)	R104A	14	0.15	12.28	25.28	40.00
WATTS ACCUFLOW (25% OPEN)	R107A	14	0.15	12.28	25.28	40.00
WATTS ACCUFLOW (25% OPEN)	R107B	14	0.15	12.28	25.28	40.00

ICD TABLE

CATCHBASIN ID	TRIBUTARY AREA ID	ICD TYPE	5YR HEAD (m)	100YR HEAD (m)	5YR 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





Stantec

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

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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
- 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
- PROPOSED DEPRESSED CURB LOCATIONS
- PROPOSED BARRIER CURB
- 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.
- WATER METER
- REMOTE WATER METER
- HOSE BIB
- PROPOSED 2Hr RATED FIRE WALL LOCATION
- 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. CONTRACTOR TO VERIFY EXISTING SEWER ELEVATIONS AND NOTIFY THE PROJECT ENGINEER PRIOR TO PROCEEDING WITH SEWER CONSTRUCTION.

Revision				
2	REVISED AS PER NEW SITE PLAN	MJS	DT	22.12.05
1	REVISED AS PER SITE PLAN	MJS	DT	22.09.27
0	ISSUED FOR SPA	MJS	DT	21.12.13
		By	Appd.	YY.MM.DD

File Name: 160401710DB	MJS	DT	MJS	21.11.22
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Permit-Seal

LICENSED PROFESSIONAL ENGINEER K.L. SMADELLA PROVINCE OF ONTARIO

Client/Project

MATTAMY HOMES LTD.

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

Title

SITE SERVICING PLAN

Project No. 160401710

Scale 1:500 (0 5 15 25m)

Drawing No. SSP-1

Sheet 3 of 7

Revision 2

PLAN No. 18668

D07-12-21-0224

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