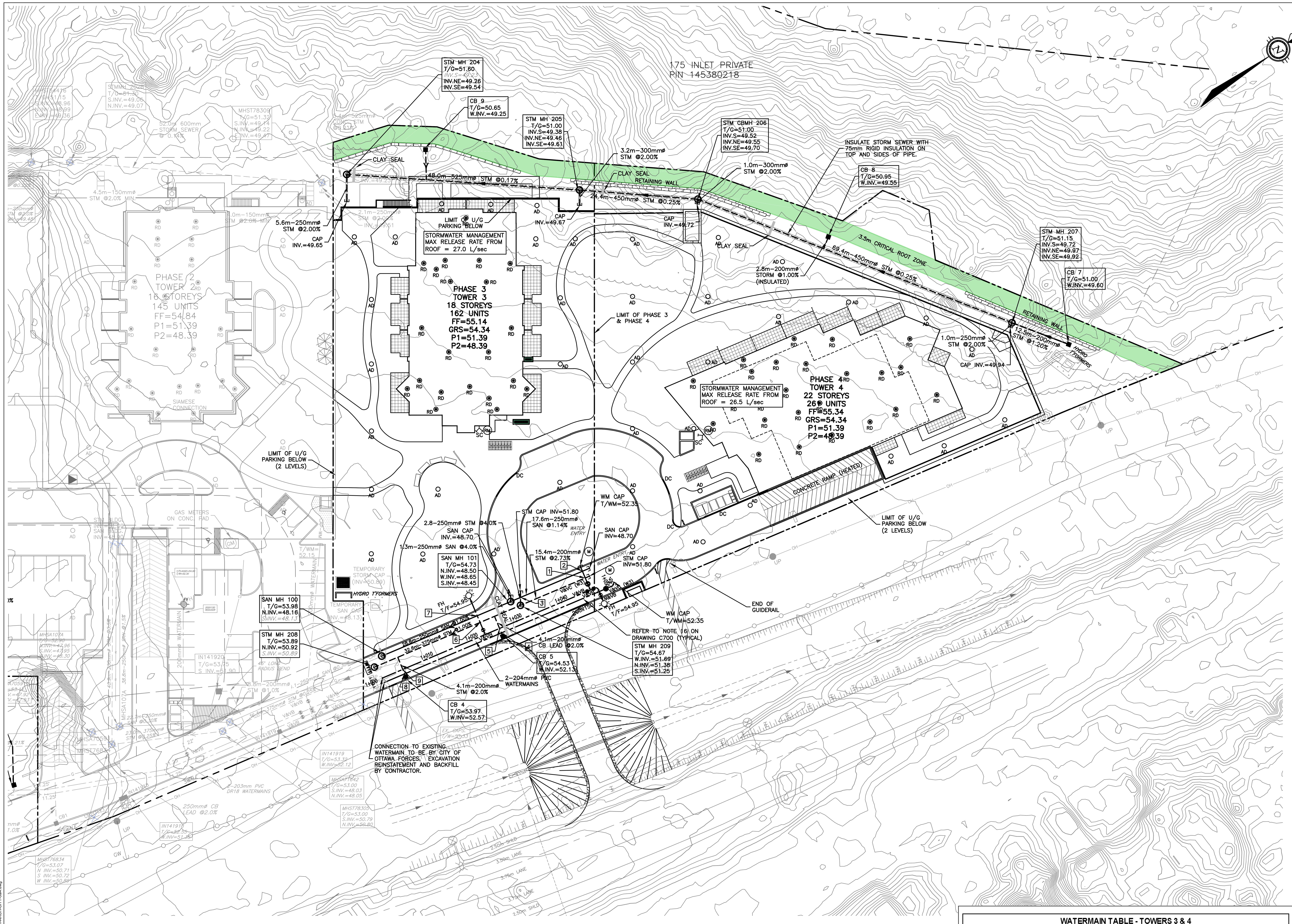

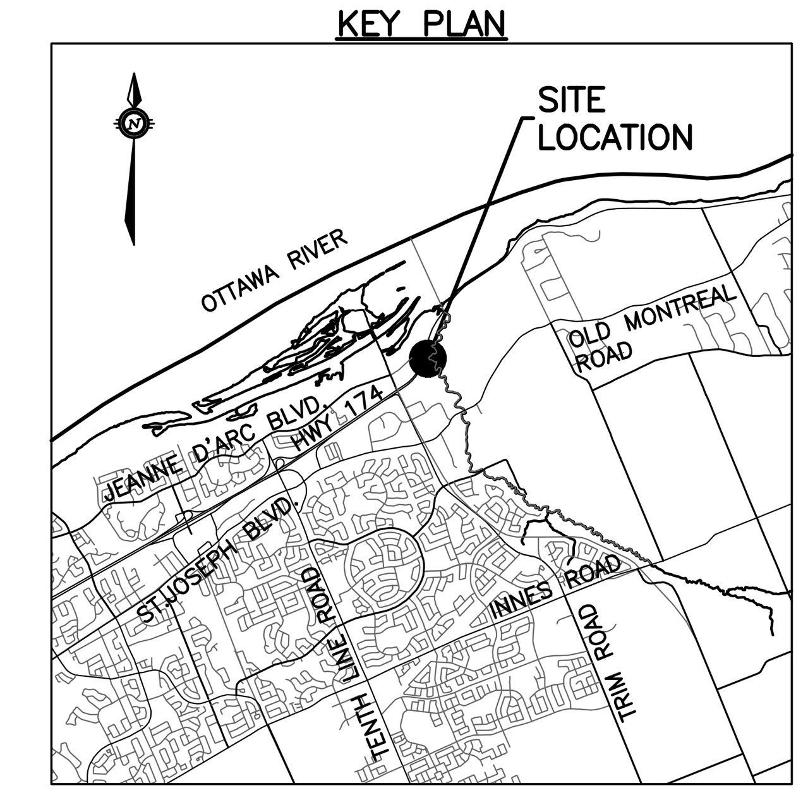

SUMMARY OF STORM WATER MANAGEMENT (ROOF & AREA DRAINS)

Phase	TOWER #	LOCATION	TYPE	FLOW CONTROL	FLOW CONTROL METHOD	NO. WEIR SLOTS PER DRAIN	WEIR POSITON	COMMENT
Existing Phase 1	Tower 1	HIGH ROOF	WATTS RD-100	YES	ACCUTROL ADJ	1	OPEN	MAX 30 GPM PER DRAIN
		PARKING DECK - Hard Surfaces	JR SMITH Model 1005	YES	75mm LEADER			
Existing Phase 2	Tower 2	HIGH ROOF	WATTS RD-100	YES	ACCUTROL ADJ	1	OPEN	MAX 30 GPM PER DRAIN
		AMMENITITES ROOF	WATTS RD-100-BEM	YES	ACCUTROL ADJ	1	OPEN	MAX 30 GPM PER DRAIN
		AMMENITITES ROOF	WATTS RD-100-BEM	NONE				
		PENTHOUSE ROOF	WATTS RD-100-BEM	NONE				
		PARKING DECK - Hard Surfaces	WATTS FD-463P-AF-4	YES	75mm LEADER			
		PARKING DECK - Landcaping	WATTS FD-870-TG	YES	75mm LEADER			
Proposed Phase 3	Tower 3	HIGH ROOF	WATTS RD-100	YES	ACCUTROL ADJ	1	50% Open	MAX 20 GPM PER DRAIN
		AMMENITITES ROOF	WATTS RD-CP-85	YES	ACCUTROL ADJ	1	CLOSED	MAX 5 GPM PER DRAIN
		AMMENITITES ROOF	WATTS RD-CP-85	NONE				
		PARKING DECK - Hard Surfaces	WATTS FD-460-AF	YES	75mm ORIFICE			
		PARKING DECK - Landcaping	WATTS FD-460-AF	YES	75mm ORIFICE			
Future Phases 4, 5A, 5B	Towers 4, 5A, 5B	HIGH ROOF	WATTS RD-100	YES	ACCUTROL ADJ	1	50% Open	MAX 20 GPM PER DRAIN
		AMMENITITES ROOF	WATTS RD-CP-85	YES	ACCUTROL ADJ	1	50% Open	MAX 20 GPM PER DRAIN
		AMMENITITES ROOF	WATTS RD-CP-85	NONE				
		PARKING DECK - Hard Surfaces	WATTS FD-460-AF	YES	75mm ORIFICE			
		PARKING DECK - Landscaping	WATTS FD-460-AF	YES	75mm ORIFICE			

WATERMAIN / SEWER CROSSING TABLE (PHASES 3 & 4)

LOCATION	SANITARY SEWER			STORM SEWER			WATERMAIN			CLEARANCES (mm)
	INVERT ELEV (m)	DIA (mm)	OBV ELEV (m)	INVERT ELEV (m)	DIA (mm)	OBV ELEV (m)	INVERT ELEV (m)	DIA (mm)	OBV ELEV (m)	
1				51.38	200	51.58	52.12	200	52.32	540
2	48.65	250	48.9				52.14	200	52.34	3240
3	48.53	250	48.74	51.75	250	52.00				3260
4				53.12	200	53.32	51.93	200	52.13	990
5				53.08	200	53.28	51.93	200	52.13	990
6				51.16	375	51.54	52.1	200	52.30	560
7	48.38	250	48.63				52.12	200	52.32	3490
8				52.56	200	52.76	51.38	200	51.58	980
9				52.52	200	52.72	51.38	200	51.58	940

WATERMAIN TABLE - TOWERS 3 & 4

STATION	WEST DESCRIPTION	EAST DESCRIPTION	GROUND ELEVATION	DESIGN TOP OF WATERMAIN	ASBUILT TOP OF WATERMAIN
1+000	CONNECTION TO EXISTING CAP	CONNECTION TO EXISTING CAP	53.98	51.33	
1+004.6	CB LEAD STORM CROSSING	CB LEAD STORM CROSSING	53.98	51.58	
1+010			54.20	51.80	
1+020			54.50	52.10	
1+023	200x200 TEE		54.52	52.12	
	200 VALVE & VALVE BOX		54.52	52.12	
	200X150 REDUCER		54.80	52.40	
	FIRE HYDRANT		54.80	52.40	
1+026	CB LEAD STORM CROSSING	CB LEAD STORM CROSSING	54.53	52.13	
1+030			54.58	52.18	
1+045.8	200 VALVE AND VALVE BOX		54.70	52.30	
1+046.5	200x200 TEE		54.70	52.30	
	200 VALVE & VALVE CHAMBER (W3)		54.72	52.32	
	TEMP 200 CAP & THRUST BLOCK		54.75	52.35	
1+47.2	200 VALVE AND VALVE BOX		54.70	52.30	
1+048	TWO 45-DEG BENDS	200x200x200 CROSS	54.70	52.30	
		200X150 REDUCER	54.70	52.30	
		150 VALVE & VALVE BOX	54.70	52.30	
		FIRE HYDRANT	54.70	52.30	
1+050		VALVE & VALVE CHAMBER (W3)	54.72	52.32	
1+051		45-DEG BEND	54.75	52.35	
1+051.5		TEMP 200 CAP & THRUST BLOCK	54.75	52.35	

EXISTING LEGEND

- OH — OVERHEAD WIRES
- UP — UTILITY POLE
- LS — LIGHT STANDARD
- CB — CATCHBASIN
- CBE — CATCHBASIN ELBOW
- CBT — CATCHBASIN TEE
- AD — AREA DRAIN
- T/G — TOP OF GRATE
- GM — GAS METER
- MH — MANHOLE (SANITARY OR STORM)
- G — GAS MAIN
- V&VB — VALVE AND VALVE BOX
- V&VC — VALVE AND VALVE CHAMBER
- FH — FIRE HYDRANT
- EX.250mmø SAN — STORM SEWER
- EX.300mmø STM — SANITARY SEWER
- EX.200mmø WM — WATERMAIN
- TREES
- X — FENCE
- 54.75 — ORIGINAL GROUND ELEVATION
- 55.00 — EXISTING CONTOUR
- OVERLAND FLOW ROUTE

PROPOSED LEGEND

- PROPERTY LINE
- 200mmø SAN — SANITARY SEWER
- 200mmø STM — STORM SEWER
- 200mmø WATERMAIN — WATERMAIN
- CLAY SEAL
- STM MH 211 — STORM MANHOLE
- SAN MH 104 — SANITARY MANHOLE
- CB1 — CATCHBASIN
- CBE — CATCHBASIN ELBOW
- CBT — CATCHBASIN TEE
- AD — AREA DRAIN AND DECK DRAIN
- RD — ROOF DRAIN
- V&VB — VALVE AND VALVE BOX
- V&VC — VALVE AND VALVE CHAMBER (W3)
- FIRE HYDRANT
- 45° — 45° WATERMAIN BEND
- 22° — 22.5° WATERMAIN BEND
- 11° — 11.25° WATERMAIN BEND
- 200x150 — WATERMAIN TEE (MAIN BRANCH)
- 200x200x200 — WATERMAIN CROSS
- 200x150 — WATERMAIN REDUCER
- M — WATER METER
- RM — REMOTE WATER METER READER
- SC — SIAMESE CONNECTION
- FF= — FLOOR ELEVATION
- GRS= — GARAGE FLOOR SLAB ELEVATION
- P1= — PARKING LEVEL FLOOR ELEVATION
- 3.0% — SLOPE AND DIRECTION OF FLOW
- 54.75 — FINAL GRADE
- HP — HIGH POINT
- TERRACING
- T/G= — TOP OF GRATE ELEVATION
- T/F= — TOP OF FLANGE
- OVERLAND FLOW ROUTE
- PHASING LIMITS
- SILT FENCE
- BARRIER CURB (SC1.1)
- DC — DEPRESSED BARRIER CURB LOCATION
- SWALE AND DIRECTION OF FLOW
- RETAINING WALL
- BUILDING ENTRY LOCATION
- ADJ — STRUCTURE TO BE ADJUSTED
- REL — STRUCTURE TO BE RELOCATED

TOPOGRAPHIC INFORMATION

PROVIDED BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD.
DATED JULY 20, 2018

JOB BENCHMARK

PROVIDED BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD.
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EASTING=384736.57
ELEVATION=52.68

0 4m 8m 16m
HORIZONTAL 1:400

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OUVRAGE Project

PETRIE'S LANDING I - PHASES 3-5

EMPLACEMENT Location: OTTAWA, ON.
NO PROJET No.: OTT-00247308-A0

NO	RÉVISION	DATE (aa.mm.jj)
1	ISSUED FOR REVIEW	18.08.03
2	ISSUED FOR SITE PLAN APPROVAL	18.09.14
3	ISSUED FOR CLIENT REVIEW	19.04.05
4	ISSUED FOR SITE PLAN APPROVAL	19.05.10
5	ISSUED FOR SITE PLAN APPROVAL	19.05.22
6	ISSUED FOR SPA-CITY COMMENTS	19.07.22
7	REVISED PER CITY COMMENTS	19.07.30
8	UPDATED TOWER 4	20.02.12
9	PRE-IFC FOR BRIGIL REVIEW	20.09.14
10	ISSUED FOR CONSTRUCTION	20.11.10
11	ISSUED FOR TOWER 4 BUILDING PERMIT	21.12.10
12	ISSUED FOR TENDER	22.02.25
13	ISSUED FOR PERMIT UPDATE	22.03.14
14	ISSUED FOR POST TENDER ADDENDUM 1	22.10.28
15	ISSUED FOR TENDER	22.12.05
16	ISSUED FOR CONSTRUCTION	22.12.16
17	ISSUED FOR COORDINATION	23.11.08
18	ISSUED FOR SI-009	23.11.17
19	ISSUED FOR APPROVAL	24.06.24

DESSINÉ PAR Drawn by: S.BUTLER
VÉRIFIÉ PAR Checked by: B.THOMAS
DATE (aa.mm.jj): 18.07.18
ÉCHELLE Scale: 1:400

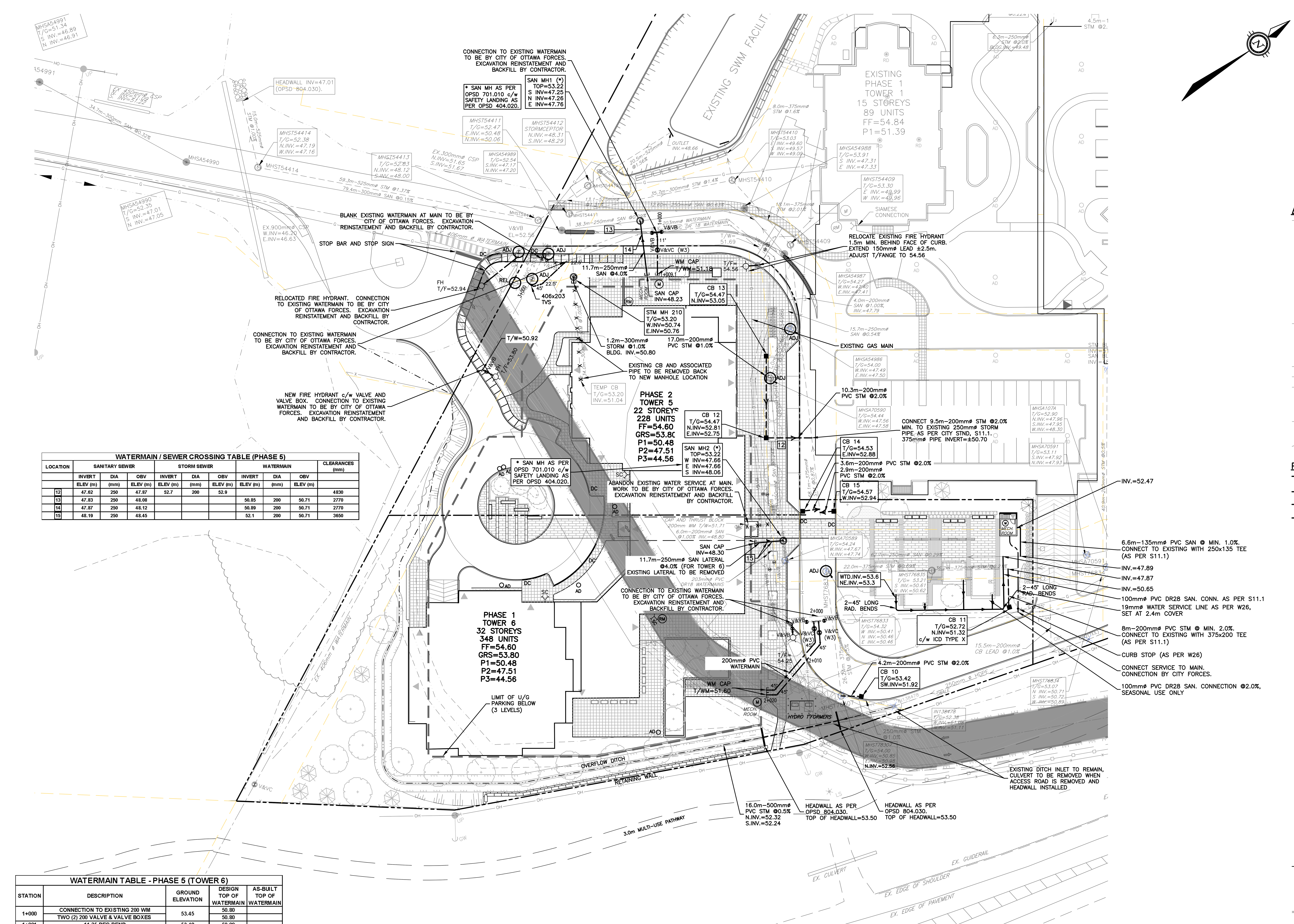
TITRE DU DESSIN Drawing Title

SITE SERVICING PLAN TOWERS 3 & 4

RÉVISION Revision
NO. DESSIN Dwg Number: C100

D-07-12-18-0143

#14602



WATERMAIN / SEWER CROSSING TABLE (PHASE 5)

LOCATION	SANITARY SEWER			STORM SEWER			WATERMAIN			CLEARANCES (mm)
	INVERT	DIA	OBV	INVERT	DIA	OBV	INVERT	DIA	OBV	
	ELEV (m)	(mm)	ELEV (m)	ELEV (m)	(mm)	ELEV (m)	ELEV (m)	(mm)	ELEV (m)	
12	47.62	250	47.87	52.7	200	52.9				4830
13	47.83	250	48.08				50.85	200	50.71	2770
14	47.87	250	48.12				50.89	200	50.71	2770
15	48.19	250	48.45				52.1	200	50.71	3650

WATERMAIN TABLE - PHASE 5 (TOWER 6)

STATION	DESCRIPTION	GROUND ELEVATION	DESIGN TOP OF WATERMAIN	AS-BUILT TOP OF WATERMAIN
1+000	CONNECTION TO EXISTING 200 WM	53.45	50.80	
	TWO (2) 200 VALVE & VALVE BOXES		50.80	
1+001	11.25-DEG BEND	53.48	50.90	
1+003.8	200 VALVE & VALVE CHAMBER (W3)	53.58	51.18	
1+009.1	TEMP 200 CAP & THRUST BLOCK	54.58	51.30	

WATERMAIN TABLE - PHASE 5 (TOWER 5)

STATION	DESCRIPTION	GROUND ELEVATION	DESIGN TOP OF WATERMAIN	AS-BUILT TOP OF WATERMAIN
2+000	CONNECTION TO EXISTING 200 WM	54.10	51.70	
2+000.5	200 VALVE AND VALVE BOX	54.09	51.69	
2+001	200 x 200 CROSS	54.09	51.69	
2+002.5	200 VALVE & VALVE CHAMBER (W3)	54.07	51.67	
2+005.8	45-DEG BEND	53.97	51.57	
2+010		53.92	51.52	
2+019.66	45-DEG BEND	54.15	51.75	
2+020		54.15	51.75	
2+021.8	TEMP 200 CAP & THRUST BLOCK	54.15	51.75	

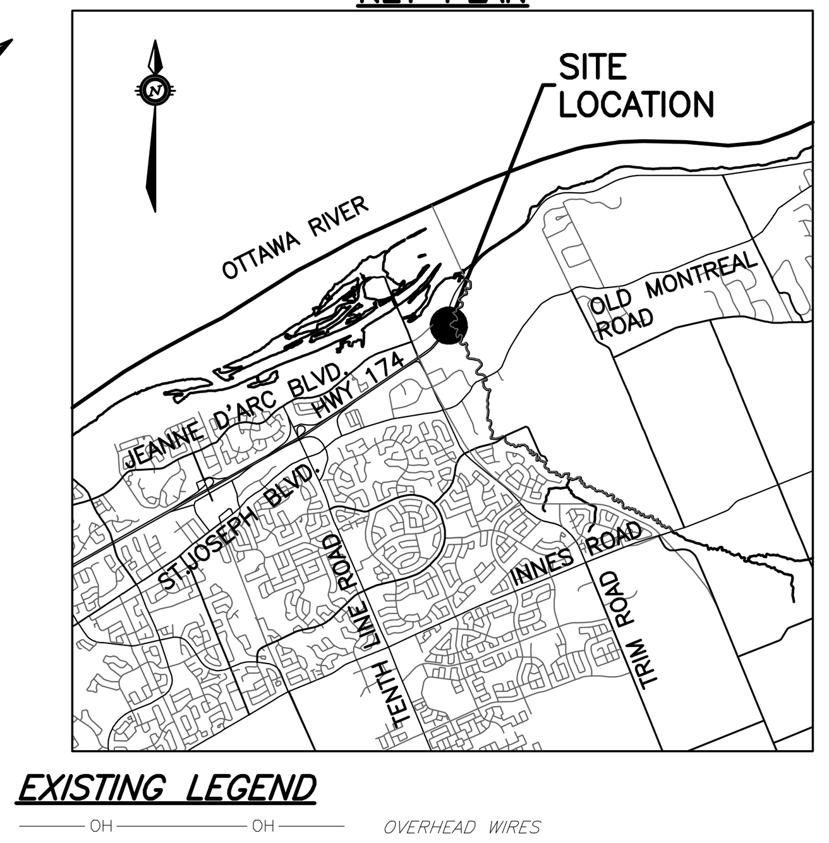
WATERMAIN TABLE - AT SITE ENTRANCE

STATION	DESCRIPTION	GROUND ELEVATION	TOP OF WATERMAIN	AS-BUILT TOP OF WATERMAIN
3+000	CONNECTION TO EXISTING WITH 400x200 TVS	53.10	50.36	
3+001	45-DEG BEND	53.10	50.36	
3+002.8	22.5-DEG BEND	53.10	50.23	
3+009.5	22.5-DEG BEND CONNECTION TO EXISTING	53.10	50.23	

SUMMARY OF STORM WATER MANAGEMENT (ROOF & AREA DRAINS)

Phase	TOWER #	LOCATION	TYPE	FLOW CONTROL	FLOW CONTROL METHOD	NO. WEIR SLOTS PER DRAIN	WEIR POSITON	COMMENT
Existing Phase 1	Tower 1	HIGH ROOF	WATTS RD-100	YES	ACCUTROL ADJ	1	OPEN	MAX 30 GPM PER DRAIN
		PARKING DECK - Hard Surfaces	JR SMITH Model 1005	YES	75mm LEADER			
Existing Phase 2	Tower 2	HIGH ROOF	WATTS RD-100	YES	ACCUTROL ADJ	1	OPEN	MAX 30 GPM PER DRAIN
		AMMENITITES ROOF	WATTS RD-100-BEM	YES	ACCUTROL ADJ	1	OPEN	MAX 30 GPM PER DRAIN
		AMMENITITES ROOF	WATTS RD-100-BEM	NONE				
		PENTHOUSE ROOF	WATTS RD-100-BEM	NONE				
		PARKING DECK - Hard Surfaces	WATTS FD-463P-AF-4	YES	75mm LEADER			
		PARKING DECK - Landcaping	WATTS FD-870-TG	YES	75mm LEADER			
Proposed Phase 3	Tower 3	HIGH ROOF	WATTS RD-100	YES	ACCUTROL ADJ	1	50% Open	MAX 20 GPM PER DRAIN
		AMMENITITES ROOF	WATTS RD-CP-85	YES	ACCUTROL ADJ	1	CLOSED	MAX 5 GPM PER DRAIN
		AMMENITITES ROOF	WATTS RD-CP-85	NONE				
		PARKING DECK - Hard Surfaces	WATTS FD-460-AF	YES	75mm ORIFICE			
		PARKING DECK - Landcaping	WATTS FD-460-AF	YES	75mm ORIFICE			
Future Phases 4, 5, 6	Towers 4, 5, 6	HIGH ROOF	WATTS RD-100	YES	ACCUTROL ADJ	1	50% Open	MAX 20 GPM PER DRAIN
		AMMENITITES ROOF	WATTS RD-CP-85	YES	ACCUTROL ADJ	1	50% Open	MAX 20 GPM PER DRAIN
		AMMENITITES ROOF	WATTS RD-CP-85	NONE				
		PARKING DECK - Hard Surfaces	WATTS FD-460-AF	YES	75mm ORIFICE			
		PARKING DECK - Landscaping	WATTS FD-460-AF	YES	75mm ORIFICE			

KEY PLAN



EXISTING LEGEND

- OVERHEAD WIRES
- UP — UTILITY POLE
- LS — LIGHT STANDARD
- CB — CATCHBASIN
- CBE — CATCHBASIN ELBOW
- CBT — CATCHBASIN TEE
- AD — AREA DRAIN
- T/G — TOP OF GRATE
- GM — GAS METER
- MH — MANHOLE (SANITARY OR STORM)
- G — GAS MAIN
- VALVE AND VALVE BOX
- VALVE AND VALVE CHAMBER
- FH — FIRE HYDRANT
- EX.250mmø SAN — STORM SEWER
- EX.300mmø STM — SANITARY SEWER
- EX.200mmø WM — WATERMAIN
- TREES
- FENCE
- ORIGINAL GROUND ELEVATION
- 55.00 — EXISTING CONTOUR
- OVERLAND FLOW ROUTE

PROPOSED LEGEND

- PROPERTY LINE
- 200mmø SAN — SANITARY SEWER
- 200mmø STM — STORM SEWER
- 200mmø WATERMAIN — WATERMAIN
- CLAY SEAL
- STM MH 211 — STORM MANHOLE
- SAN MH 104 — SANITARY MANHOLE
- CB1 — CATCHBASIN
- CBE — CATCHBASIN ELBOW
- CBT — CATCHBASIN TEE
- AD — AREA DRAIN AND DECK DRAIN
- RD — ROOF DRAIN
- V&VB — VALVE AND VALVE BOX
- V&VC — VALVE AND VALVE CHAMBER (W3)
- FIRE HYDRANT
- 45° — 45° WATERMAIN BEND
- 22° — 22.5° WATERMAIN BEND
- 11° — 11.25° WATERMAIN BEND
- 200x150 — WATERMAIN TEE (MAIN BRANCH)
- 200x200x200 — WATERMAIN CROSS
- 200x150 — WATERMAIN REDUCER
- M — WATER METER
- RM — REMOTE WATER METER READER
- SC — SIAMESE CONNECTION
- FF= — FLOOR ELEVATION
- GRS= — GARAGE FLOOR SLAB ELEVATION
- P1= — PARKING LEVEL FLOOR ELEVATION
- 3.0% — SLOPE AND DIRECTION OF FLOW
- 54.75 — FINAL GRADE
- H.P. — HIGH POINT
- TERRACING
- T/G= — TOP OF GRATE ELEVATION
- T/F= — TOP OF FLANGE
- OVERLAND FLOW ROUTE
- PHASING LIMITS
- SILT FENCE
- BARRIER CURB (SC1.1)
- DC — DEPRESSED BARRIER CURB LOCATION
- SWALE AND DIRECTION OF FLOW
- RETAINING WALL
- BUILDING ENTRY LOCATION
- ADJ — STRUCTURE TO BE ADJUSTED
- REL — STRUCTURE TO BE RELOCATED

TOPOGRAPHIC INFORMATION
PROVIDED BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD.
DATED JULY 20, 2018

JOB BENCHMARK
PROVIDED BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD.
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NORTHING=5040610.15
EASTING=384736.57
ELEVATION=52.68

0 4m 8m 16m
HORIZONTAL 1:400

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OUVRAGE Project
PETRIE'S LANDING I - PHASES 3-5

EMPLACEMENT Location: OTTAWA, ON.
NO PROJET No.: OTT-00247308-A0

NO	RÉVISION	DATE (aa.mm.jj)
1	ISSUED FOR REVIEW	18.08.03
2	ISSUED FOR SITE PLAN APPROVAL	18.09.14
3	ISSUED FOR CLIENT REVIEW	19.04.05
4	ISSUED FOR SITE PLAN APPROVAL	19.05.10
5	ISSUED FOR SITE PLAN APPROVAL	19.05.22
6	ISSUED FOR SPA-CITY COMMENTS	19.07.22
7	REVISED PER CITY COMMENTS	19.07.30
8	UPDATED TOWER 4	20.02.12
9	PRE-IFC FOR BRIGIL REVIEW	20.09.14
10	ISSUED FOR CONSTRUCTION	20.11.10
11	ISSUED FOR TOWER 4 BUILDING PERMIT	21.12.10
12	ISSUED FOR PERMIT UPDATE	22.03.14
13	ISSUED FOR 80% REVIEW	22.04.21
14	ISSUED FOR PERMIT	22.07.15
15	ADDITIONAL WATER SERVICE TOWER 6	22.10.18
16	ISSUED FOR TENDER	22.12.05
17	ISSUED FOR RE-TENDER	23.03.10
18	ISSUED FOR COORDINATION	23.11.08
18	ISSUED FOR APPROVAL	24.06.24

DESSINÉ PAR Drawn by: S.BUTLER
VÉRIFIÉ PAR Checked by: B.THOMAS
DATE (aa.mm.jj): 18.07.18
ÉCHELLE Scale: 1:400

TITRE DU DESSIN Drawing Title
SITE SERVICING PLAN TOWERS 5 & 6

RÉVISION Revision
NO. DESSIN Dwg Number: C101

D-07-12-18-0143

#14602

Filename: \\pottsg002\data\projects\civil\247000\ott-00247308-a0 - petrie's landing towers 3, 4, 5 - brigil\60-execution\64-dwg\247308-c101.dwg
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References: xref-EX-ARCH.dwg; xref-SER-TWR-5&6.dwg; xref-NEUF-24x36-TWR-5&6.dwg; xref-ARCH-TWR-5&6.dwg; FloorPlan-01-RDC-MTM.dwg