

DRAWING NOTES

1.0 GENERAL

- 1.1 CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
- 1.2 DO NOT SCALE DRAWINGS.
- 1.3 CONTRACTOR TO REPORT ALL DISCOVERIES OF ERRORS, OMISSIONS OR DISCREPANCIES TO THE ARCHITECT OR DESIGN ENGINEER AS APPLICABLE.
- 1.4 USE ONLY THE LATEST REVISED DRAWINGS OR THOSE THAT ARE MARKED "ISSUED FOR CONSTRUCTION".
- 1.5 ALL CONSTRUCTION SHALL COMPLY WITH CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
- 1.6 THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS AND SPECIFICATIONS.
- 1.7 FOR LEGAL SURVEY INFORMATION REFER TO REGISTERED PLAN.
- 1.8 REFER TO SITE PLAN BY CHAMBERLAIN ARCHITECT SERVICES LIMITED.
- 1.9 CONTRACTOR TO IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES AS IDENTIFIED IN THE EROSION AND SEDIMENT CONTROL PLAN TO THE SATISFACTION OF THE CITY OF OTTAWA. PRIOR TO UNDERTAKING ANY SITE ALTERATIONS (FILLING, GRADING, REMOVAL OF VEGETATION, ETC.), DURING ALL PHASES OF THE SITE PREPARATION AND CONSTRUCTION THE MEASURES ARE TO BE MAINTAINED TO THE SATISFACTION OF THE ENGINEER AND CITY OF OTTAWA IN ACCORDANCE WITH THE BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL. SHOULD ANY ADDITIONAL MEASURES BE REQUIRED TO ADDRESS FIELD CONDITIONS THEY SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER OR THE CITY OF OTTAWA. SUCH ADDITIONAL MEASURES MAY INCLUDE BUT NOT BE LIMITED TO INSTALLATION OF FILTER CLOTHS ACROSS MANHOLE AND CATCHBASIN LIDS TO PREVENT SEDIMENT FROM ENTERING THE STRUCTURE AND INSTALLATION AND MAINTENANCE OF A LIGHT DUTY SILT FENCE BARRIER AS REQUIRED.
- 1.10 ALL IRON WORK ELEVATIONS SHOWN ARE APPROXIMATE AND ARE SUBJECT TO MINOR ADJUSTMENTS AS DETERMINED BY THE ENGINEER.
- 1.11 ALL CONCRETE CURBS AND SIDEWALKS TO CONFORM TO CITY STANDARDS SC1.1 AND SC1.4. ALL ONSITE CURBS TO BE BARRIER TYPE, WITH DEPRESSIONS AS NOTED.
- 1.12 ALL CONCRETE SHALL BE "NORMAL PORTLAND CEMENT" IN ACCORDANCE WITH O.P.S.S. 1350 AND SHALL ACHIEVE A MINIMUM STRENGTH OF 30MPa AT 28 DAYS.
- 1.13 ALL CONSTRUCTION TRAFFIC TO ACCESS SITE FROM BANK STREET.
- 1.14 FOR GEOTECHNICAL REPORT SEE GEOTECHNICAL INVESTIGATION PROPOSED MULTI-STOREY BUILDINGS DONE SOUTH APARTMENTS 4840 BANK STREET, OTTAWA, ON, REPORT NO. P06255 BY PATERSON GROUP DATED MAY 20, 2022.
- 1.15 CONTRACTOR TO PROTECT EXISTING INFRASTRUCTURE AND PROPERTY SUCH AS TREES, PARKING METERS, SIDEWALKS, CURBS, ASPHALT, AND STREET SIGNS FROM DAMAGE DURING CONSTRUCTION. CONTRACTOR TO PAY THE COST TO REINSTATE OR REPLACE ANY DAMAGED INFRASTRUCTURE OR PROPERTY TO THE SATISFACTION OF THE CITY.
- 1.16 THE POSITION OF POLE LINES, CONDUITS, WATERMAIN, SEWERS, AND OTHER UNDERGROUND AND ABOVEGROUND UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK THE CONTRACTOR SHALL INFORM ITSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, SHALL PROTECT ALL UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
- 1.17 CONTRACTOR TO SUPPLY SUFFICIENT FILL MATERIAL WHERE REQUIRED TO ROUGH GRADE THE SITE. ALL IMPORTED FILL MATERIAL TO BE CERTIFIED AS ACCEPTABLE BY THE GEOTECHNICAL ENGINEER.
- 1.18 CONTRACTOR TO HAUL EXCESS MATERIAL OFFSITE AS NECESSARY TO GRADE SITE TO MEET THE PROPOSED GRADES. ALL EXCESS MATERIAL TO BE HAULED OFFSITE AND DISPOSED OF AT AN APPROVED DUMP SITE. SHOULD THE CONTRACTOR DISCOVER ANY HAZARDOUS MATERIAL, CONTRACTOR IS TO NOTIFY ENGINEER, ENGINEER TO DETERMINE APPROPRIATE DISPOSAL METHOD/LOCATION.
- 1.19 FILL MATERIAL WITHIN THE PARKING LOT AND BUILDING PAD AREAS, AND SUPPORTING BUILDING FOUNDATIONS SHALL BE COMPACTED TO 98% STANDARD MODIFIED PROCTOR DENSITY AND TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
- 1.20 ALL COMPACTION METHODS TO BE PERFORMED TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER TO INCLUDE BUT NOT BE LIMITED TO THE THICKNESS OF LIFTS, AND COMPACTION EQUIPMENT USED.
- 1.21 ALL DISTURBED BOULEVARDS TO BE REINSTATED WITH 500 ON 100mm TOPSOIL.
- 1.22 UTILITY DUCTS TO BE INSTALLED PRIOR TO ROAD BASE CONSTRUCTION.
- 1.23 CLAY DIKES TO BE INSTALLED WHERE INDICATED ON THE DRAWINGS OR AS APPROVED AND DIRECTED BY THE GEOTECHNICAL ENGINEER. ALL IN CONCRETE, FRAME AND COVER, DROP PIPES AND LANDINGS WHERE NEEDED.
- 1.24 ALL UTILITY BOXES (i.e. PEDESTALS, TRANSFORMERS, ETC) ARE TO BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF OTTAWA'S "GUIDELINES FOR UTILITY PEDESTALS WITHIN THE ROAD RIGHT OF WAY".
- 1.25 FOR SITE BENCH MARK SEE SURVEY BY ANNIS O'SULLIVAN, VOLLEBECK LTD. JOB No. 20749-22 REGIONAL B/LK 004-484-1031 D.I.

- 1.30 CONTRACTOR TO PROVIDE IPEX TEMPEST MHF ICD'S SHOP DRAWINGS, OR EQUIVALENT, FOR ENGINEERS REVIEW PRIOR TO ORDERING ICD'S.
- 4.0 WATER
- 4.1 ALL WATERMANS TO BE PVC DR 18, WITH MINIMUM COVER OF 2.4m AND INSTALLED PER CITY OF OTTAWA STANDARDS W17. ALL DOMESTIC WATER SERVICES ARE TO BE 200mm.
- 4.2 THRUST BLOCKS TO BE INSTALLED AT ALL BENDS, TEES, AND CAPS ALL TO CITY STANDARDS W25.3 AND W25.4.
- 4.3 CONTRACTOR TO CONDUCT PRESSURE AND LEAKAGE TESTING OF ALL WATERMANS AND DISINFECT AND CHLORINATE ALL WATERMANS TO THE SATISFACTION OF M.O.E. AND THE CITY OF OTTAWA.
- 4.4 TRACER WIRE TO BE INSTALLED ALONG THE FULL LENGTH OF WATERMAIN AND ATTACHED TO EACH MAIN STOP AS PER CITY OF OTTAWA STANDARD W38.
- 4.5 ALL COMPONENTS OF THE WATER DISTRIBUTION SYSTEM SHALL BE CATHODICALLY PROTECTED AS PER CITY OF OTTAWA STANDARD W40.
- 4.6 ALL VALVES & VALVE BOXES AND CHAMBERS, HYDRANTS, AND HYDRANT VALVES AND ASSEMBLIES SHALL BE INSTALLED AS PER CITY OF OTTAWA STANDARDS W19 & W24.
- 4.7 ANY WATERMAIN WITH LESS THAN 2.4m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR AS APPROVED BY THE ENGINEER.
- 4.8 CONTRACTOR IS RESPONSIBLE FOR ACQUIRING THE WATER PERMIT FROM THE CITY OF OTTAWA AND PAYMENT OF ANY FEES ASSOCIATED WITH SECURING THE WATER PERMIT. OWNER IS RESPONSIBLE FOR REIMBURSING THE CONTRACTOR FOR THE ACTUAL COST OF ACQUIRING THE WATER PERMIT.
- 4.9 CONNECTION TO EXISTING WATERMAIN TO BE INCLUDED IN THE COST FOR THE WATERMAIN INSTALLATION. THIS COST INCLUDES REINSTATEMENT OF ROAD CUTS TO CITY STANDARD R10.

2.0 SANITARY

- 2.1 ALL SANITARY SEWER MAINS TO BE CSA CERTIFIED, BELL AND SPIGOT TYPE. ONLY FACTORY FITTINGS TO BE USED. SEWER TO BE INSTALLED AS PER OSPD 1005.01. SANITARY SEWER MATERIALS TO BE: 200mmØ AND SMALLER - PVC DR 35
- 2.2 ALL SANITARY MAINTENANCE HOLES TO BE 1.2m DIAMETER AS PER CITY OF OTTAWA STANDARDS COMPLETE WITH BENCHING, RUNGS, FRAME AND COVER, DROP PIPES AND LANDINGS WHERE NEEDED.
- 2.3 SANITARY MANHOLE COVERS TO BE CITY OF OTTAWA STD. 325 (MOD. OPSD. 401.020). SANITARY MANHOLE COVER TO BE CLOSED COVER TYPE, AS PER CITY STANDARD S24.
- 2.4 SANITARY SEWER LEAKAGE TEST AND CCTV INSPECTION SHALL BE COMPLETED AS PER CITY SPECIFICATIONS PRIOR TO INSTALLATION OF BASE COURSE ASPHALT.
- 2.5 ANY SANITARY SEWER WITH LESS THAN 2.0m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR AS APPROVED BY THE ENGINEER.
- 2.6 CONNECTION TO THE EXISTING SANITARY SEWER TO BE INCLUDED IN THE COST FOR SANITARY SEWER INSTALLATION. THIS INCLUDES REINSTATEMENT OF ROAD CUTS TO CITY STANDARDS.

3.0 STORM

- 3.1 ALL STORM SEWERS TO BE CSA CERTIFIED, BELL AND SPIGOT TYPE. ALL STORM SEWERS TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. ONLY FACTORY FITTINGS TO BE USED. STORM SEWER MATERIALS TO BE: 375mmØ AND SMALLER - PVC DR 35 450mmØ AND LARGER - 100-D REINFORCED CONCRETE.
- 3.2 ALL STORM MAINTENANCE HOLES TO BE SIZED IN ACCORDANCE WITH THE PLANS AND AS PER CITY OF OTTAWA STANDARDS COMPLETE WITH BENCHING, RUNGS, AND FRAME AND COVER.

LEGEND:

- MH3A EXISTING SANITARY MANHOLE
- MH3 EXISTING STORM MANHOLE
- CB T/G 99.76 EXISTING STREET CATCHBASIN
- CICB G/G 99.76 EXISTING CURB INLET CATCHBASIN
- V&VB EXISTING VALVE AND VALVE BOX
- V&C EXISTING VALVE AND CHAMBER
- HYD B/F 100.56 EXISTING HYDRANT
- EXISTING BARRIER CURB
- D.C. EXISTING DEPRESSED BARRIER CURB
- EXISTING CONCRETE SIDEWALK
- SIAMESE CONNECTION (IF REQUIRED)
- METER
- REMOTE METER
- PRV PRESSURE REDUCING VALVE
- PIPE CROSSING IDENTIFICATION
- HEAVY DUTY ASPHALT / FIRE ROUTE
- PROPERTY LINE

- MH3A SANITARY MANHOLE
- MH3 STORM MANHOLE
- CB T/G 99.76 CATCHBASIN c/w TOP OF GRATE
- RYCB T/G 99.76 REAR YARD CATCHBASIN c/w GUTTER GRADE
- ECB T/G 100.25 REAR YARD "END" CATCHBASIN c/w TOP OF GRATE 300Ø
- CBMH T/G 101.55 CATCHBASIN MANHOLE c/w TOP OF GRATE
- V&VB VALVE AND VALVE BOX
- V&C VALVE AND CHAMBER
- HYD B/F 100.56 HYDRANT c/w BOTTOM OF FLANGE ELEVATION
- D.C. DEPRESSED BARRIER CURB AS PER SC1.1
- BARRIER CURB AND GUTTER AS PER SC1.2
- MOUNTABLE CURB AS PER SC1.3
- PROPOSED CONCRETE SIDEWALK
- 200mmØ SAN SANITARY SEWER & FLOW DIRECTION
- 825mmØ STM STORM SEWER & FLOW DIRECTION
- 200Ø WATERMAIN WATERMAIN

CATCHBASIN DATA TABLE										
STRUCTURE ID	STORM AREA ID	STRUCTURE	FRAME & COVER	ELEVATION		OUTLET PIPE		INLET CONTROL DEVICE		
				TOP OF GRATE	INVERT		DIAMETER (mm)	TYPE	HEAD (m)	FLOW (l/s)
					INLET	OUTLET				ICD TYPE
CB1	MH5A	OPSD 705.010	S19	102.50	101.10	200	PVC DR35	1.650	12.00	IPEX MHF
CB2	MH5	OPSD 705.010	S19	102.45	101.05	200	PVC DR35	1.650	6.00	IPEX LMF
CB3	MH3	OPSD 705.010	S19	102.40	101.00	200	PVC DR35	1.650	6.00	IPEX LMF
CB4	MH3A	OPSD 705.010	S19	102.45	100.77	200	PVC DR35	1.650	8.00	IPEX MHF
CB5	MH3B	OPSD 705.010	S19	102.45	101.05	200	PVC DR35	1.650	6.00	IPEX LMF
CB6	MH3C	OPSD 705.010	S19	102.40	101.00	200	PVC DR35	1.650	6.00	IPEX LMF
CB7	CBMH2	OPSD 705.010	S19	102.25	100.85	200	PVC DR35	1.650	12.00	IPEX MHF
CB8	MH3D	OPSD 705.010	S19	101.60	100.10	300	PVC DR35	1.650	65.00	IPEX MHF
CB10	MH4	OPSD 705.010	S19	101.50	100.10	200	PVC DR35	1.650	25.00	IPEX MHF
RYCB1	RYCB1	OPSD 705.010	S19	101.70	100.30	200	PVC DR35	1.400	6.00	IPEX LMF

WATERMAIN SCHEDULE				
	Station	Description	Finished Grade	Top of Watermain
A	0+000.00	TEE	101.700	99.300
	0+002.00	VB	101.830	99.430
C	0+009.85	TEE	101.940	99.540
	0+036.47	45° BEND	102.070	99.670
	0+039.30	45° BEND	102.070	99.670
D	0+040.02	TEE	102.080	99.680
	0+044.20	HYDRANT	102.250	99.850
	0+048.75	VB	102.440	100.040
E	0+058.23	TEE	102.670	100.270
	0+077.76	45° BEND	102.680	100.280
	0+080.59	45° BEND	102.680	100.280
B	0+113.70	EX CAP	102.580	100.180
C	0+000	TEE	101.940	99.940
	0+001.5	VB	101.870	99.870
	0+008.6	BLDG A	102.150	99.750
			102.080	99.680
D	0+000	TEE	102.080	99.680
	0+001.5	VB	102.090	99.690
	0+032.38	45° BEND	102.450	100.050
	0+033.79	45° BEND	102.460	100.060
	0+034.90	BLDG B	102.450	100.050
			102.670	100.270
E	0+000	TEE	102.670	100.270
	0+001.5	VB	102.700	100.300
	0+032.38	45° BEND	102.800	100.400
	0+033.79	45° BEND	102.800	100.400
	0+036.10	BLDG C	103.000	100.600

Pipe Interference Table

Crossing No.	PIPE 1	PIPE 2	Clearance
1	STM Bottom 99.631	SAN Top 99.421	0.210
2	SAN Bottom 100.409	STM Top 100.252	0.157
3	STM Bottom 100.743	SAN Top 100.505	0.238
4	STM Bottom 100.853	SAN Top 100.576	0.277
5	STM Bottom 100.732	SAN Top 98.888	1.844
6	STM Bottom 99.230	SAN Top 99.039	0.191

PAVEMENT STRUCTURE:

LIGHT WEIGHT AREAS:

- 50mm - SUPERPAVE 12.5 ASPHALTIC CONCRETE
150mm - OPS5 GRANULAR "A" CRUSHED STONE
300mm - OPS5 GRANULAR "B" TYPE II

HEAVY DUTY AREAS

- 40mm - SUPERPAVE 12.5 ASPHALTIC CONCRETE
50mm - SUPERPAVE 19.0 ASPHALTIC CONCRETE
150mm - OPS5 GRANULAR "A" CRUSHED STONE
450mm - OPS5 GRANULAR "B" TYPE II

CLIENT

PATHWAYS SOUTH REGIONAL INC.

1737 WOODWARD DRIVE, OTTAWA, ON

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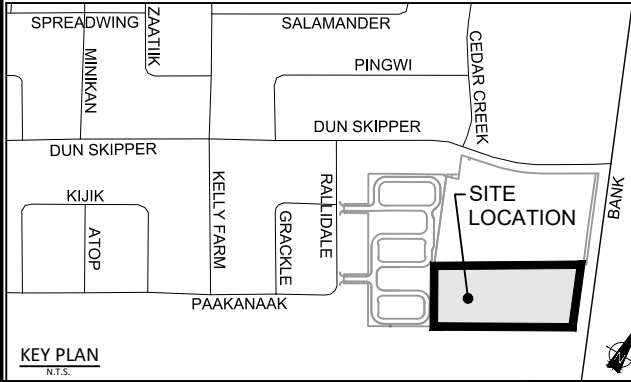
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ISSUES

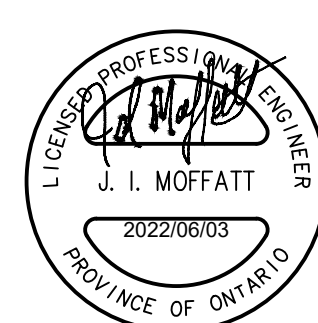
No.	DESCRIPTION	DATE
1	SUBMISSION NO. 1 FOR CITY REVIEW	2022-06-03
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SEE 010, 011, 012 FOR NOTES, LEGEND, CB TABLE, STREET SECTIONS AND DETAILS.



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SEAL



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D.C.

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SHEET TITLE

NOTES LEGEND CB DATA

SHEET NUMBER

C-010

ISSUE

1

CITY PLAN No. xxxxx