

DESCRIPTION	EXISTING	PROPOSED
SITE FEATURES		
PROPERTY LINE	---	---
TOP OF SLOPE	---	---
TERRACING (3:1 TYPICAL)	---	---
☒ DITCH/SWALE AND DIRECTION OF FLOW	---	---
EDGE OF SHOULDER	---	---
EDGE OF PAVEMENT	---	---
☒ ROAD/ALIGNMENT	---	---
CHAINLINK FENCE	---	---
POST AND RAIL FENCE	---	---
SIDEWALK (TYPE AS NOTED ON DRAWINGS)	---	---
BARRIER CURB (SC1.1)	---	---
MOUNTABLE CURB (SC1.3)	---	---
DEPRESSED CURB	---	---
TACTILE WALKING SURFACE INDICATOR "TWSI" (SC7.3)	---	---
GUARDRAIL	---	---
JERSEY BARRIERS	---	---
BUILDING ENTRY/EXIT WITH RISERS	▼xR	▼xR
BUILDING ENTRY/EXIT BARRIER FREE	▼BF	▼BF
BUILDING ENTRY/EXIT OVERHEAD DOOR	▼	▼
POST	⊙ POST	⊙ POST
SIGN	⊙ SIGN	⊙ SIGN
BOLLARD	⊙ BOLL	⊙ BOLL
VEGETATION	☼	☼
UTILITY AND STRUCTURES		
HYDRO (OVERHEAD)	—OH—	—OH—
HYDRO	—H—	—H—
POWER	—P—	—P—
ELECTRICAL	—E—	—E—
BELL (OVERHEAD)	—OB—	—OB—
BELL	—B—	—B—
CABLE (OVERHEAD)	—OC—	—OC—
CABLE TV	—C—	—C—
FIBRE OPTIC	—FO—	—FO—
STREETLIGHT	—SL—	—SL—
GASMAIN	—G—	—G—
JOINT USE TRENCH – BELL/CABLE TV	—BC—	—BC—
JOINT USE TRENCH – HYDRO/BELL/CABLE TV	—HBC—	—HBC—
JOINT USE TRENCH – HYDRO/BELL/CABLE TV/GAS	—HBCG—	—HBCG—
JOINT USE TRENCH – BELL/CABLE TV/GAS	—BCG—	—BCG—
DUCT CROSSING WITH NUMBER AND TYPE OF DUCTS	2H,2C,2B	2H,2C,2B
STREETLIGHT	☼	☼
STREETLIGHT DISCONNECT	☼	☼
HYDRO TRANSFORMER	☼	☼
HYDRO SWITCHING KIOSK	☼	☼
HYDRO MANHOLE	⊙	⊙
HYDRO METER	⊙	⊙
UTILITY POLE AND GUY WIRE	—OUP—	—OUP—
CABLE PEDESTAL	⊙	⊙
BELL PEDESTAL	⊙	⊙
BELL MANHOLE	⊙	⊙
BELL GROUND LEVEL BOX	⊙	⊙
ENDWALL	⊙	⊙
COMMUNITY MAILBOX	⊙	⊙
GAS VALVE	⊙	⊙
GAS METER	⊙	⊙
TRAFFIC MANHOLE	⊙	⊙
TRAFFIC HAND HOLE	⊙	⊙
TRAFFIC JOINT USE POLE	⊙	⊙
TRAFFIC MAST ARM	⊙	⊙
TRAFFIC CONDUIT	—T—	—T—

DESCRIPTION	EXISTING	PROPOSED
SERVICES AND STRUCTURES		
SANITARY SEWER	Ex. 250mm ^Ø SAN	250mm ^Ø SAN
COMBINATION SEWER	Ex. 300mm ^Ø COMB	300mm ^Ø COMB
STORM SEWER	Ex. 375mm ^Ø STM	375mm ^Ø STM
EQUIPMENT SUBDRAIN	Ex. 150mm ^Ø SUBDRAIN	150mm ^Ø SUBDRAIN
STORM CULVERT	Ex. 600mm ^Ø CULVERT	600mm ^Ø CULVERT
SANITARY MANHOLE	○ EX.SAN	● SANMH 100
COMBINATION MANHOLE	○ EX.COMB	● COMBMH 100
STORM MANHOLE	○ EX.STM	● STMMH 200
CATCHBASIN MANHOLE	○ EX.CBMH	● CBMH 100
CATCHBASIN	□ EX.CB	■ CB1
DOUBLE CATCHBASIN	□ EX.DCB	■ DCB1
CATCHBASIN ELBOW (S30)	○ EX.CBE	● CBE
CATCHBASIN TEE (S31)	○ EX.CBT	● CBT
CURB INLET CATCHBASIN	□ EX.DICB	■ DICB 1
DITCH INLET CATCHBASIN	□ EX.DICB	■ DICB 1
WATERMAIN	200mm ^Ø WATERMAIN	200mm ^Ø WATERMAIN
IRRIGATION	—IR—	—IR—
VALVE AND VALVE BOX	⊙ V&VB	⊙ V&VB
VALVE AND VALVE CHAMBER	⊙ V&VC	⊙ V&VC
FIRE HYDRANT	⊙ FH	⊙ FH
SIAMESE CONNECTION	Y SC	Y SC
WATER METER	⊙	⊙
REMOTE WATER METER	⊙	⊙
45° BEND	~45°	~45°
22.5° BEND	~22°	~22°
11.25° BEND	~11°	~11°
TEE	≠ 200X150 TEE	≠ 200X150 TEE
REDUCER	▷ 200X100 RED	▷ 200X100 RED
CROSS	≠ 300X200 CROSS	≠ 300X200 CROSS
CURB STOP	⊙ CS	● CS
WATER WELL	⊙	⊙
GRADING		
GROUND ELEVATION	X 100.00	X 100.00
SWALE ELEVATION	X 100.00(S)	X 100.00(S)
AOV TOPO TOP OF WALL ELEVATION	X 100.00*	X 100.00
TOP OF GRATE ELEVATION	T/G=100.00	T/G=100.00
TOP OF WALL ELEVATION	X 100.00 T/W	X 100.00 T/W
BOTTOM OF WALL ELEVATION	X 100.00 B/W	X 100.00 B/W
FINISHED FLOOR ELEVATION	FF=100.00	FF=100.00
TOP OF FOUNDATION ELEVATION	TF=100.00	TF=100.00
BASEMENT FLOOR ELEVATION	BF=100.00	BF=100.00
PARKING LEVEL ELEVATION	P1=100.00	P1=100.00
UNDERSIDE OF FOOTING ELEVATION	USF=100.00	USF=100.00
ORIGINAL GROUND ELEVATION	OG=100.00	OG=100.00
TOP OF ROCK ELEVATION	T/ROCK=100.00	T/ROCK=100.00
CONTOUR LINES	100.00	100.00
SLOPE AND DIRECTION OF FLOW	2.0%	2.0%
EMERGENCY OVERLAND FLOW ROUTE ONSITE	→	→
OVERLAND FLOW ROUTE EXTERNAL	←	←
STORMWATER MANAGEMENT		
STORM DRAINAGE AREA BOUNDARY	---	---
STORM DRAINAGE AREA NUMBER	0.06	0.75
STORM DRAINAGE AREA IN HECTARES	---	---
RUN-OFF COEFFICIENT	---	---
5 YEAR PONDING AREA	---	---
100 YEAR PONDING AREA	---	---
GEOTECHNICAL		
BOREHOLE	⊕ BH	⊕ BH
TEST PIT	⊕ TP	⊕ TP
COREHOLE	⊕ CH	⊕ CH
PIEZOMETER	⊕ PIZ	⊕ PIZ
MONITORING WELL	⊕ MW	⊕ MW

DESCRIPTION	EXISTING	PROPOSED
MISCELLANEOUS		
REMOVED	---	---
RELOCATED	---	---
ADJUSTED	---	---
PAVEMENT OVER PARKING GARAGE	---	---
REFER TO NOTES FOR COMPOSITION		
PAVEMENT OVER EARTH	---	---
REFER TO NOTES FOR COMPOSITION		
ROAD REINSTATEMENT AS PER CITY STANDARD R10		
RIP-RAP AS PER OPSD 810.010		
LANDSCAPE REINSTATEMENT		
PAVEMENT STRUCTURE:		
HEAVY DUTY PAVEMENT STRUCTURE AREAS OVER PARKING STRUCTURES:		
40mm HL-3 OR SUPERPAVE (PG) 58-34 12.5 ASPHALTIC CONCRETE		
50mm HL-8 OR SUPERPAVE (PG) 58-34 19.0 ASPHALTIC CONCRETE		
150mm BASE – OPSS GRANULAR A CRUSHED STONE		
100mm SUBBASE – OPSS GRANULAR B TYPE II		
BELOW GRANULAR B REFER TO ARCHITECTURAL PLANS		
HEAVY DUTY PAVEMENT STRUCTURE AREAS OVER EARTH:		
40mm HL-3 OR SUPERPAVE (PG) 58-34 12.5 ASPHALTIC CONCRETE		
50mm HL-8 OR SUPERPAVE (PG) 58-34 19.0 ASPHALTIC CONCRETE		
150mm BASE – OPSS GRANULAR A CRUSHED STONE		
450mm SUBBASE – OPSS GRANULAR B TYPE II		
SUBGRADE – EITHER FILL, IN SITU SOIL OR OPSS GRANULAR B TYPE I OR II		

- GENERAL NOTES**
- ALL WORKS AND MATERIALS SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS), WHERE APPLICABLE.
 - THE LOCATION OF UTILITIES IS APPROXIMATE ONLY, AND THE EXACT LOCATION SHOULD BE DETERMINED BY CONSULTING THE MUNICIPAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE LOCATION AND STATUS OF UTILITIES AND SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION OF PLANT AND EQUIPMENT FROM DAMAGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY SERVICES OR UTILITIES DISTURBED DURING CONSTRUCTION, TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.
 - THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF EXISTING SERVICES PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL CONFIRM LOCATIONS AND ELEVATIONS OF EXISTING SERVICES AND STRUCTURES TO BE CONNECTED TO AND EXISTING SERVICES THAT MAY BE DAMAGED OR CAUSE CONFLICTS PRIOR TO CONSTRUCTION OF ANY NEW SEWER, WATER AND/OR STORM WATER WORKS. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES, INTERPRETATIONS, CHANGES AND ADDITIONS TO THESE DRAWINGS MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER, WHEN NOTED AND BEFORE PROCEEDING WITH CONSTRUCTION WORKS. DO NOT CONTINUE CONSTRUCTION IN AREAS WHERE DISCREPANCIES APPEAR UNTIL SUCH DISCREPANCIES HAVE BEEN RESOLVED.
 - ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED. ALL DRAWINGS SHOULD NOT BE SCALED BY THE CONTRACTOR. ANY MISSING OR QUESTIONABLE DIMENSIONS ARE TO BE CONFIRMED WITH THE ENGINEER IN WRITING.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED AND BEAR COST OF THE SAME.
 - ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE "OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS", THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE CONTRACTOR AS DEFINED IN THE ACT.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION, BACKFILL AND REINSTATEMENT OF ALL AREAS DISTURBED DURING CONSTRUCTION TO THE SATISFACTION OF THE ENGINEER, THE CITY OF OTTAWA AND THE AUTHORITY HAVING JURISDICTION.
 - ANY AREAS BEYOND THE LIMIT OF THE SITE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION AT THE CONTRACTOR'S EXPENSE.
 - THE CONTRACTOR SHALL COMPLY WITH THE CITY OF OTTAWA REQUIREMENTS FOR TRAFFIC CONTROL WHEN WORKING ON CITY STREETS. ALL CONSTRUCTION SIGNAGE MUST CONFORM TO THE M.T.O. MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST AMENDMENT).
 - THE SUPPORT OF ALL UTILITIES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
 - THERE WILL BE NO SUBSTITUTION OF MATERIALS UNLESS WRITTEN APPROVAL BY THE ENGINEER HAS BEEN OBTAINED.
 - EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE.
 - THE SITE LAYOUT IS THE RESPONSIBILITY OF THE CONTRACTOR. AS-BUILT SITE SERVICING & GRADING DRAWINGS SHALL BE MAINTAINED ON SITE BY THE CONTRACTOR.
 - ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT.
 - FOR GEOTECHNICAL INFORMATION REFER TO GEOTECHNICAL INVESTIGATION REPORT PREPARED BY EXP SERVICES INC DATED JUNE 14, 2021 PROJECT NO. OTT-00252825-AD
 - THE CONTRACTOR SHALL APPRAISE HIS/HER SELF OF ALL SURFACE AND SUBSURFACE CONDITIONS TO BE ENCOUNTERED AND SHALL CARRY OUT THEIR OWN TEST PITS AS REQUIRED TO MAKE THEIR OWN INDEPENDENT ASSESSMENT OF GROUND CONDITIONS. THE CONTRACTOR SHALL NOT MAKE ANY CLAIM FOR ANY EXTRA COST DUE TO ANY SUCH GROUND CONDITIONS VARYING FROM THOSE ANTICIPATED BY THE CONTRACTOR.
 - DO NOT CONSTRUCT USING DRAWINGS THAT ARE NOT MARKED "ISSUED FOR CONSTRUCTION".
 - FOR TOPOGRAPHICAL INFORMATION REFER TO PLAN PREPARED BY ANIS, O'SULLIVAN, VOLLEBECK SURVEYING LTD. DATED MAY 1, 2019.
 - CIVIL DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, STRUCTURAL, LANDSCAPE AND LEGAL DRAWINGS.
- SANITARY SEWER NOTES:**
- ALL SANITARY SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS).
 - ALL SANITARY SEWERS SHALL BE PVC SDR 35, IPEX "RING-TITE" (OR EQUIVALENT), AS PER CSA STANDARD B182.2 OR LATEST AMENDMENT, UNLESS OTHERWISE NOTED.
 - SANITARY SEWER TRENCH AND BEDDING SHALL BE AS PER CITY OF OTTAWA STD. S6 AND S7, CLASS 'B' BEDDING UNLESS OTHERWISE NOTED.
 - THE CONTRACTOR SHALL CONDUCT CCTV INSPECTION OF ALL NEWLY INSTALLED SANITARY SEWERS AND EXISTING SEWERS CONNECTED TO. THE TEST SHALL BE PERFORMED IMMEDIATELY AFTER SEWERS INSTALLED.
- STORM SEWER NOTES:**
- ALL STORM SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS).
 - ALL PVC STORM SEWERS ARE TO BE SDR 35 APPROVED PER C.S.A. B182.2 OR LATEST AMENDMENT, UNLESS OTHERWISE SPECIFIED.
 - THE CONTRACTOR SHALL CONSTRUCT FLEXIBLE STORM SEWERS IN ACCORDANCE WITH OPSD 802.010 AND 802.013. DURING CONSTRUCTION THE CONTRACTOR SHALL PROTECT THE PIPES FROM HEAVY CONSTRUCTION EQUIPMENT. BEDDING AND BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 95% SPMDD.
 - SEWER BEDDING AS PER CITY STANDARD S6 & S7.
 - ALL ABANDONED EXISTING SEWERS TO BE CAPPED AT THE PROPERTY LINE TO THE SATISFACTION OF THE CITY OF OTTAWA'S SEWER OPERATIONS.
 - WITHIN THE FROST ZONE, THE BACKFILL IN THE SERVICE TRENCHES SHOULD MATCH THE SOIL ON SIDES TO MINIMIZE DIFFERENTIAL FROST HEAVING IN THE SUBGRADE.
 - ALL UNDERGROUND PARKING FLOOR DRAINAGE IS TO BE DIRECTED TO THE SANITARY SEWER AS PER THE CITY OF OTTAWA SEWER DESIGN GUIDE LINES, CLAUSE 6.1.10.
- WATERMAIN NOTES:**
- ALL PVC WATERMAIN SHALL BE PVC DR18 IN ACCORDANCE WITH ANWA C-900 CLASS 150 OR PVC0 IN ACCORDANCE WITH ANWA C-909, WITH ANWA/CSA PRESSURE RATING OF 235 PSI (1620 kPa).
 - ALL WATERMAIN MATERIALS AND INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS).
 - NO WORK SHALL COMMENCE UNLESS A CITY WATER WORKS INSPECTOR IS ON SITE. WATERMAIN CONNECTIONS BY CITY OF OTTAWA FORCES WITH ALL EXCAVATION BACKFILL AND ROAD REINSTATEMENT BY CONTRACTOR.
 - WATERMANS TRENCH AND BEDDING SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD W17, UNLESS OTHERWISE SPECIFIED. BEDDING AND COVER MATERIAL SHALL BE SPECIFIED BY PROJECT GEOTECHNICAL ENGINEER.
 - CATHODIC PROTECTION IS REQUIRED ON ALL METALLIC FITTINGS AS PER CITY OF OTTAWA STD. W40. ALL ANODES SHALL BE A Z-24-48 AS PER CITY OF OTTAWA STD. W44.
 - ALL WATERMANS TO BE INSTALLED AT MINIMUM COVER OF 2.4m.
 - IF WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN HALF THAT RECOMMENDED BY THE MANUFACTURER.
 - DISINFECTION AND TESTING OF WATERMAIN TO BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.
 - WATER METER TO BE INSTALLED AS PER W32.
 - INSULATION FOR WATERMAIN CROSSING OVER AND BELOW SEWER SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. W25.2 AND W25, RESPECTIVELY, WHERE WATERMAIN COVER IS LESS THAN 2.4m.
 - WATERMAIN TO BE BLANKED AT MAIN, NOT AT PROPERTY LINE.
 - ALL FIRE HYDRANTS TO BE INSTALLED IN ACCORDANCE WITH CITY OF OTTAWA STANDARD W18.
- ROAD NOTES:**
- PAVEMENT REINSTATEMENT FOR SERVICE AND UTILITY CUTS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. R10 AND OPSD 509.010, UNLESS OTHERWISE NOTED.
 - GRANULAR "A" SHALL BE PLACED TO A MINIMUM THICKNESS OF 300mm AROUND ALL STRUCTURES WITHIN PAVEMENT AREA.
 - ALL GRANULAR FOR ROADS SHALL BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR MAXIMUM DRY DENSITY.
 - FOR PAVEMENT STRUCTURE DETAILS REFER TO LEGEND

APPROVED
By Kersten Nitsche at 4:15 pm, Apr 18, 2024

Kersten Nitsche
KERSTEN NITSCHÉ, MCIP RPP
MANAGER (A), DEVELOPMENT REVIEW WEST
PLANNING, DEVELOPMENT AND BUILDING SERVICES
DEPARTMENT, CITY OF OTTAWA

CAUTION
THE POSITION OF ALL POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS 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, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

NO.	REVISION DESCRIPTION	DATE	BY	APPROV	REV	REVISION DESCRIPTION	DATE	BY	APPROV
7	REVISED PER CITY COMMENTS	09/12/22	SAB	BMT					
6	REVISED PER CITY COMMENTS	17/11/22	AC	BMT					
5	REVISED PER CITY COMMENTS	15/09/22	AC	BMT					
4	REVISED PER CITY COMMENTS	10/12/21	AC	JD					
3	REVISED PER CITY COMMENTS	27/05/21	AC	BMT					
2	ISSUED FOR REZONING APPLICATION	27/01/20	MZG	BMT					
1	ISSUED FOR REVIEW	12/09/19	SAB	BMT					

DESIGNED BY	REVIEWED BY	CLIENT	BASEPLAN	PROJECT
		11061917 CANADA INCORPORATED 100-768 ST. JOSEPH BOULEVARD GATINEAU, QC. J8Y 4B8	SAB	11061917 CANADA INC RESIDENTIAL DEVELOPMENT 365 FOREST STREET OTTAWA, ONTARIO.
SCALE			CHECKED	PROJECT No.
			BMT	OTT-252570-AD
TITLE			DRAWN	SURVEY
			BMT	ACV
DATE			PROJECT MANAGER	DATE
			SAB	JAN 2020
DATE			APPROVED	DRAWING No.
			BMT	C001
DATE			BMT	

NOTES AND LEGEND SHEET