

DESCRIPTION	EXISTING	PROPOSED
<b>SITE FEATURES</b>		
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		
BUILDING ENTRY/EXIT BARRIER FREE		
BUILDING ENTRY/EXIT OVERHEAD DOOR		
POST		
SIGN		
BOLLARD		
VEGETATION		
<b>UTILITY AND STRUCTURES</b>		
HYDRO (OVERHEAD)		
HYDRO		
POWER		
ELECTRICAL		
BELL (OVERHEAD)		
BELL		
CABLE (OVERHEAD)		
CABLE TV		
FIBRE OPTIC		
STREETLIGHT		
GASMAIN		
JOINT USE TRENCH - BELL/CABLE TV		
JOINT USE TRENCH - HYDRO/BELL/CABLE TV		
JOINT USE TRENCH - HYDRO/BELL/CABLE TV/GAS		
JOINT USE TRENCH - BELL/CABLE TV/GAS		
DUCT CROSSING WITH NUMBER AND TYPE OF DUCTS		
STREETLIGHT		
STREETLIGHT DISCONNECT		
HYDRO TRANSFORMER		
HYDRO SWITCHING KIOSK		
HYDRO MANHOLE		
HYDRO METER		
UTILITY POLE AND GUY WIRE		
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		

DESCRIPTION	EXISTING	PROPOSED
<b>SERVICES AND STRUCTURES</b>		
SANITARY SEWER		
COMBINATION SEWER		
STORM SEWER		
STORM MANHOLE		
STORM SUBDRAIN		
STORM CULVERT		
SANITARY MANHOLE		
COMBINATION MANHOLE		
STORM MANHOLE		
CATCHBASIN MANHOLE		
CATCHBASIN		
DOUBLE CATCHBASIN		
CATCHBASIN ELBOW (S30)		
CATCHBASIN TEE (S31)		
CURB INLET CATCHBASIN		
DITCH INLET CATCHBASIN		
WATERMAIN		
IRRIGATION		
VALVE AND VALVE BOX		
VALVE AND VALVE CHAMBER		
FIRE HYDRANT		
SIAMESE CONNECTION		
WATER METER		
REMOTE WATER METER		
45° BEND		
22.5° BEND		
11.25° BEND		
TEE		
REDUCER		
CROSS		
CURB STOP		
WATER WELL		

DESCRIPTION	EXISTING	PROPOSED
<b>GRADING</b>		
GROUND ELEVATION	X 100.00	X 100.00
SWALE ELEVATION	X 100.00(S)	X 100.00(S)
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		
SLOPE AND DIRECTION OF FLOW		
OVERLAND FLOW ROUTE ONSITE		
OVERLAND FLOW ROUTE EXTERNAL		

DESCRIPTION	EXISTING	PROPOSED
<b>STORMWATER MANAGEMENT</b>		
STORM DRAINAGE AREA BOUNDARY		
STORM DRAINAGE AREA NUMBER		
STORM DRAINAGE AREA IN HECTARES		
RUN-OFF COEFFICIENT		
5 YEAR PONDING AREA		
100 YEAR PONDING AREA		

DESCRIPTION	EXISTING	PROPOSED
<b>GEOTECHNICAL</b>		
BOREHOLE		
TEST PIT		
COREHOLE		
PIEZOMETER		
MONITORING WELL		

DESCRIPTION	EXISTING	PROPOSED
<b>MISCELLANEOUS</b>		
REMOVED		
RELOCATED		
ADJUSTED		
LIGHT DUTY PAVEMENT		
HEAVY DUTY PAVEMENT		
ROAD REINSTATEMENT AS PER CITY STANDARD R10		
RIP-RAP AS PER OPSD 810.010		
LANDSCAPE REINSTATEMENT		

DESCRIPTION	EXISTING	PROPOSED
<b>PAVEMENT STRUCTURES</b>		
HEAVY DUTY PAVEMENT STRUCTURE (DRIVE LANES/FIRE ROUTES)		
40mm SUPERPAVE 12.5mm OR HL3		
50mm SUPERPAVE 19.0mm OR HL8		
150mm GRANULAR 'A'		
450mm GRANULAR 'B' TYPE 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 CONSTRUCTOR 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 AUGUST 28, 2019, PROJECT NO. OTT-00252625-A0
  - 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 8182.2 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.
  - THE CONTRACTOR SHALL CONSTRUCT FLEXIBLE SANITARY 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.
  - ALL ABANDONED EXISTING SEWERS TO BE CAPPED AT THE PROPERTY LINE TO THE SATISFACTION OF THE CITY OF OTTAWA'S SEWER OPERATIONS.
- 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 STORM SERVICES TO BE EQUIPPED WITH APPROVED BACKWATER VALVES. REFER TO MECHANICAL DRAWINGS.
  - THE CONTRACTOR SHALL CONDUCT CCTV INSPECTION OF ALL NEWLY INSTALLED STORM SEWERS AND EXISTING SEWERS CONNECTED TO THE TEST SHALL BE PERFORMED IMMEDIATELY AFTER SEWERS INSTALLED.
- WATERMAIN NOTES:**
- 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.
- ROAD NOTES:**
- PAVEMENT REINSTATEMENT FOR SERVICE AND UTILITY CUTS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. R10 AND OPSD 509.010, OPSS 310.
  - 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.
  - PAVEMENT STRUCTURE:**  
PARKING AREAS:  
- 50mm SUPERPAVE 12.5 ASPHALTIC CONCRETE  
- 150mm GRANULAR "A" CRUSHED LIMESTONE (OPSS 1010)  
- 300mm GRANULAR "B" TYPE II (OPSS 1010)
  - PAVEMENT DESIGN TYPE:  
ACCESS LANES AND HEAVY DUTY AREA:  
- 40mm SUPERPAVE 12.5 ASPHALTIC CONCRETE  
- 50mm SUPERPAVE 19.0 ASPHALTIC CONCRETE  
- 150mm GRANULAR "A" CRUSHED LIMESTONE (OPSS 1010)  
- 450mm GRANULAR "B" TYPE II (OPSS 1010)

**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.

File: \\exp\proj\11061917\11061917\_001.dwg  
 User: jsmith  
 Date: 2020/09/19 11:39:00  
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 Plot Title: 11061917 CANADA INC  
 Plot Subtitle: RESIDENTIAL DEVELOPMENT  
 Plot Date: JAN 2020  
 Plot Drawing No: C001

SCALE	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.
			exp Services Inc. 1-1181-888-1888   1-813-225-7330 200-1000-1000 Ave. 100 Ottawa, ON K2B 8K6 Canada www.exp.com	DESIGN	PROJECT No. OTT-252570-A0
			• BUILDINGS • EARTH & ENVIRONMENT • ENERGY • • INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •	CHECKED	SURVEY AOV
				CAD	DATE JAN 2020
				PROJECT MANAGER	DRAWING No. C001
				APPROVED	
				BMT	
				BMT	
				BMT	
REV	REVISION DESCRIPTION	DATE	BY	APPD	
2	ISSUED FOR REZONING APPLICATION	27/01/20	MZG	BMT	
1	ISSUED FOR REVIEW	12/09/19	SAB	BMT	