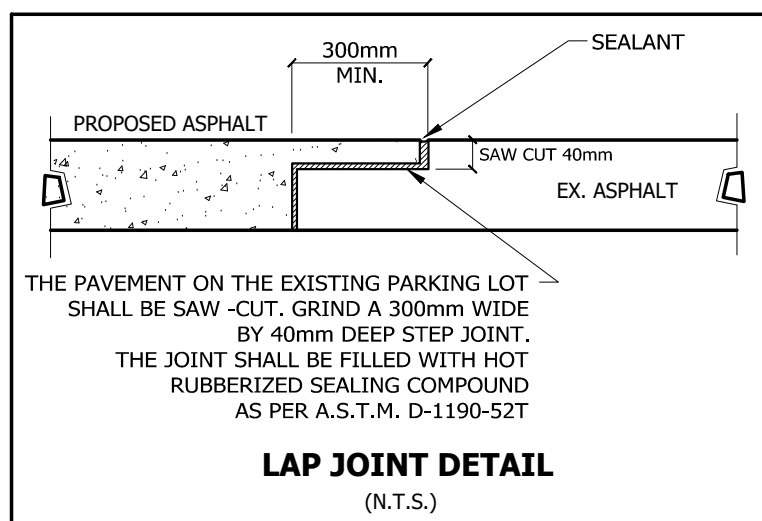
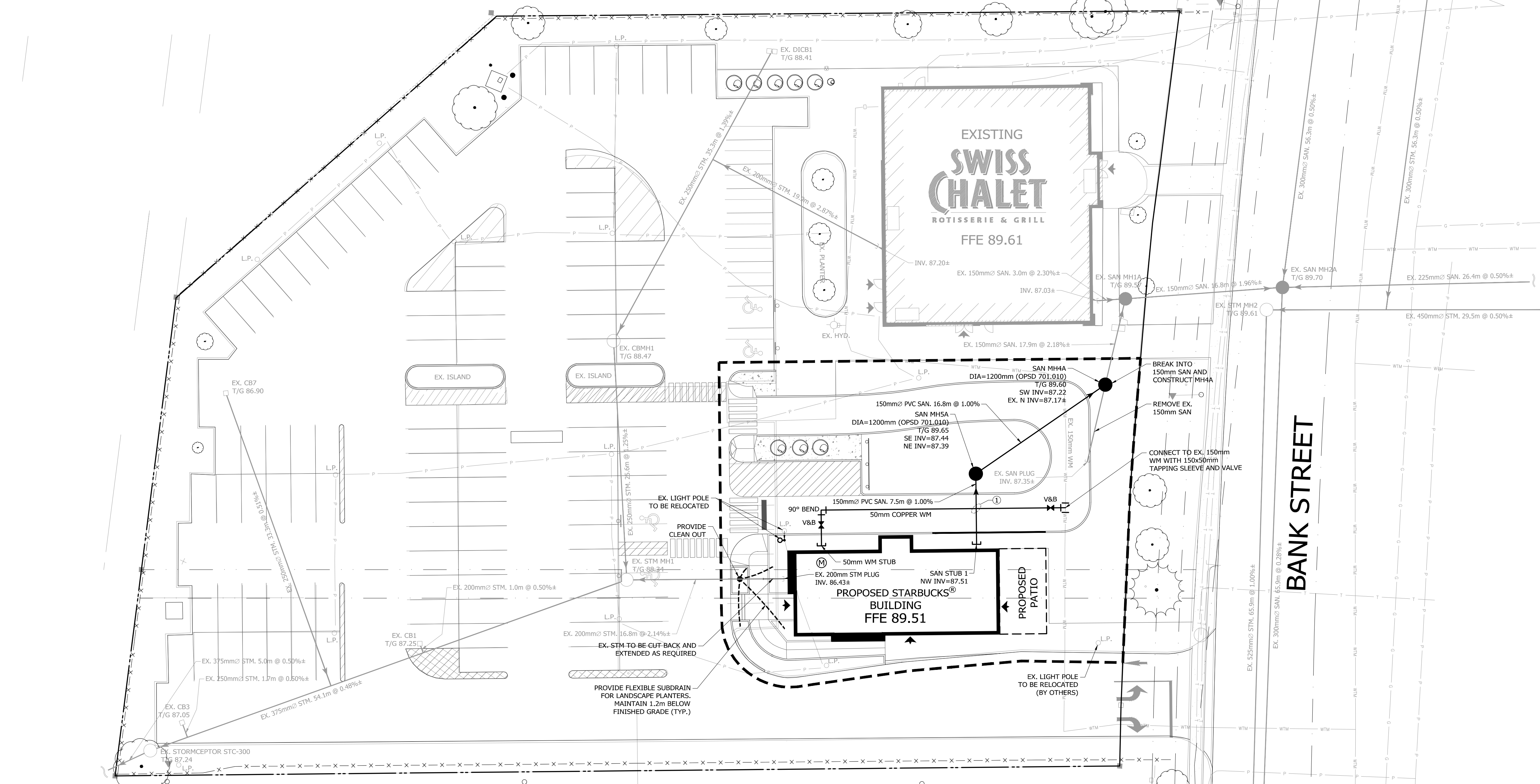


| CROSSING TABLE | | | |
|----------------|----------------|---------------|-----------|
| CROSSING ID | TOP PIPE | BOTTOM PIPE | CLEARANCE |
| 1 | SAN INV. 87.62 | WM OBV. 87.12 | 0.5m |



| PAVEMENT STRUCTURE | | | |
|---|--------------------|--------------------|--|
| PAVEMENT LAYER | DEPTH (Light Duty) | DEPTH (Heavy Duty) | |
| HL3 ASPHALT | 50mm | 40mm | |
| HL8 ASPHALT | | 75mm | |
| 20mm CRUSHER RUN LIMESTONE (Granular 'A') | 150mm | 150mm | |
| 50mm CRUSHER RUN LIMESTONE (Granular 'A') | 200mm | 300mm | |

STORM SEWERS

- ALL STORM SEWER WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS).
- SEWERS SHALL BE CONSTRUCTED OF PVC SDR-26 AS PER CSA SPEC B182.2A WITH CLASS 'B' BEDDING IN ACCORDANCE WITH OPSD 802.03.
- CATCHBASIN MANHOLE SHALL BE AS PER OPSD 701.010 WITH BENCHING AS PER 701.021.
- SINGLE CATCHBASINS SHALL BE AS PER OPSD 705.010, WITH FRAMES AND COVERS AS PER OPSD 400.02. DOUBLE CATCHBASINS SHALL BE AS PER OPSD 705.020.
- UNLESS NOTED OTHERWISE, CATCHBASIN LEADS SHALL BE 200mm DIA. AT MINIMUM 1.0% GRADE.
- PROVIDE A MINIMUM OF 150mm GRANULAR "A" OR SAND COVER OVER PIPES. BACKFILL SHALL BE GRANULAR MATERIAL COMPACTED TO 95% STD. PROCTOR DENSITY.
- PROVIDE TWO SUBDRAINS, MINIMUM LENGTH OF 3.0m EACH EXTENDING FROM OPPOSITE SIDES OF ALL PROPOSED CATCHBASINS AND MANHOLE CATCHBASINS TO DRAIN THE GRANULAR SUB BASE.
- CB AND CBMH STRUCTURES TO BE EQUIPPED WITH IPX PLUG TYPE A 19.8L/S INLET CONTROL DEVICE AS SHOWN ON THIS PLAN.

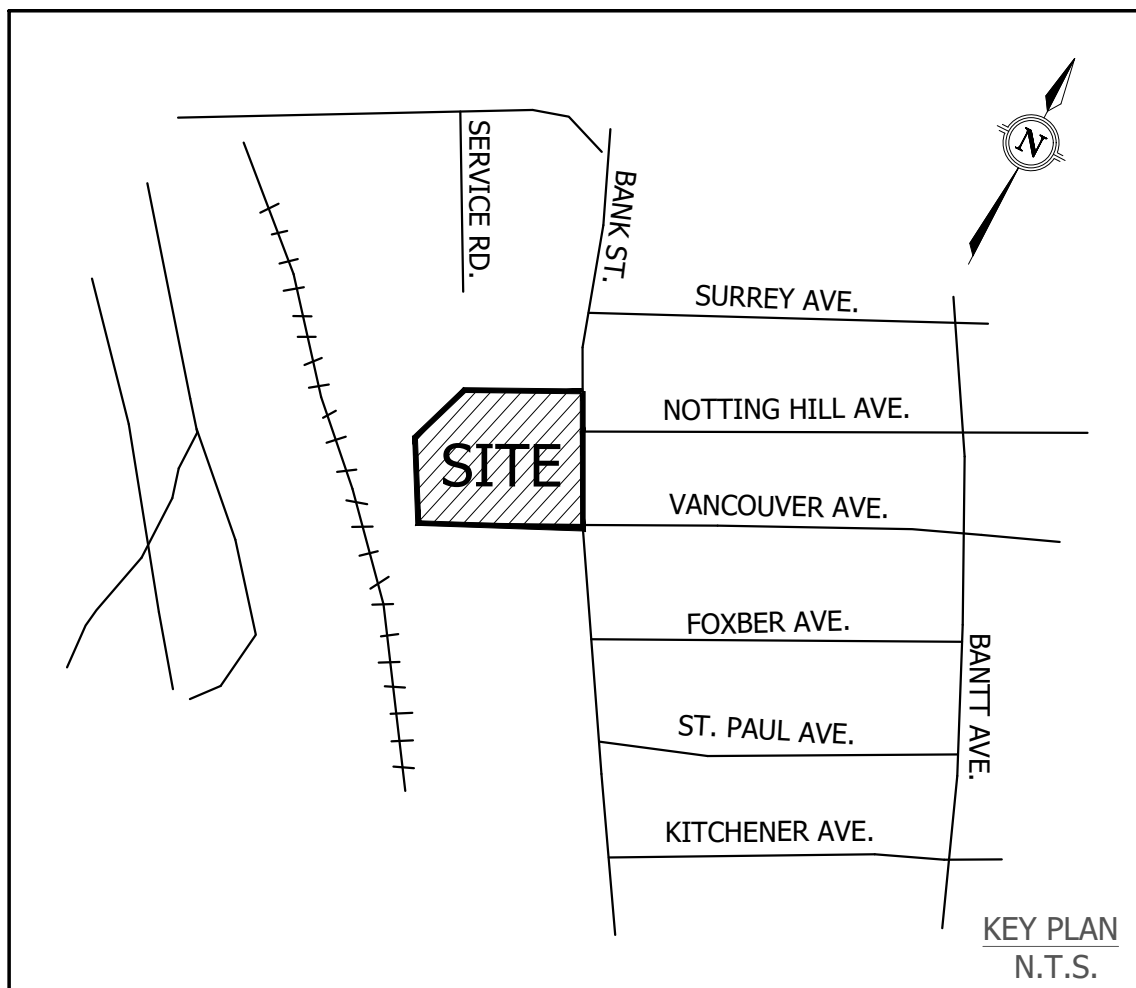
SANITARY SEWERS

- SANITARY SEWERS 200mm* AND SMALLER TO BE PVC SDR-26 AS PER CSA SPEC B182.2A.
- BEDDING FOR SANITARY SEWERS SHALL BE CLASS "B" AS PER OPSD 1005.02.
- MANHOLES SHALL BE AS PER OPSD 1001.01 WITH BENCHING AS PER STANDARD OPSD 1004.01.
- CONTRACTOR TO VERIFY ELEVATION OF EX. SANITARY SEWER AND UTILITIES ON BANK STREET PRIOR TO CONSTRUCTION.

WATERMAINS

- ALL MATERIALS AND CONSTRUCTION METHODS SHALL COMPLY WITH THE CURRENT ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS.
- WATERMAINS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 300mm OVER AND 500mm UNDER SEWER AND ALL OTHER UTILITIES WHEN CROSSING. ALL WATERMAINS AND SERVICES SHALL HAVE 2.4m MINIMUM COVER AND HORIZONTAL SPACING OF 1.20m FROM THEMSELVES AND ALL OTHER UTILITIES.
- 100mm TO 150mm DIAMETER WATERMAINS SHALL BE PVC CL150 DR-18 AWWA, C-900 WITH OD OF D.I. PIPE AND PUSH ON JOINTS. A 12 GAUGE T.W.H. SOLID COPPER PLASTIC COVERED TRACING WIRE SHALL BE INSTALLED WITH THE PIPE AND BROUGHT TO THE SURFACE AT EACH VALVE BOX.

- BEDDING FOR WATERMAINS SHALL BE AS PER OPSD 1102.02. THRUST BLOCKS AND SUPPORTS SHALL COMPLY WITH ONTARIO PROVINCIAL STANDARDS 1103.01 & 1103.02.
- PROVISION FOR FLUSHING WATER LINES PRIOR TO TESTING MUST BE PROVIDED WITH AT LEAST A 50mm OUTLET. THEY MUST ALSO BE HOSED OR PIPED TO ALLOW THE WATER TO DISCHARGE ON TO A PARKING LOT OR TO A DRAIN. ON FIRE LINES, FLUSHING OUTLET TO BE 100mm DIAMETER MINIMUM ON A HYDRANT.
- VALVE AND BOX SHALL BE AS PER ONTARIO SPECIFICATION FOR MATERIAL 701.05.10.
- WATER SERVICE TO BE LAID COMMENCING AT POINT OF METERING TOWARDS THE STREET LINE TO PREVENT JOINTS UNDER THE BUILDING FLOOR.
- ALL PROPOSED WATER PIPING MUST BE ISOLATED FROM EXISTING LINES IN ORDER TO ALLOW INDEPENDENT PRESSURE TESTING AND CHLORINATING FROM EXIST. SYSTEMS.
- REMOTE WATER METERS TO BE INSTALLED ON BUILDING EXTERIOR TO THE SATISFACTION OF THE CITY OF OTTAWA URBAN SERVICES DEPARTMENT.



LEGEND

- PROPERTY BOUNDARY
- PHASING LIMIT
- PROPOSED SANITARY MANHOLE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING STORM SEWER MANHOLE
- PROPOSED WATER VALVE AND BOX
- PROPOSED WATER METER
- EXISTING FIRE HYDRANT
- SUBDRAIN TO LANDSCAPE PLANTERS
- PROPOSED LIGHT STANDARD
- EXISTING TREE

GENERAL NOTES

- ANY INFORMATION SHOWN ON THIS PLAN REGARDING LOCATION AND SIZE OF EXISTING UTILITIES OR SERVICES IS FURNISHED AS THE BEST INFORMATION AVAILABLE. THE OWNER AND HIS AGENTS DISCLAIM ANY RESPONSIBILITY FOR ITS ACCURACY OR SUFFICIENCY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION TO OBTAIN STAKE OUTS AND DETAILS OF EXISTING SERVICES.
- ALL CONSTRUCTION WORK FOR THIS PROJECT SHALL COMPLY WITH THE CITY OF OTTAWA OR ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS.
- ALL SURFACE DRAINAGE SHALL BE SELF-CONTAINED, COLLECTED AND DISCHARGED AT A LOCATION TO BE APPROVED PRIOR TO ISSUANCE OF A BUILDING PERMIT. DRAINAGE OF ABUTTING PROPERTIES SHALL NOT BE ADVERSELY AFFECTED.
- PROPOSED ELEVATIONS ALONG SITE PROPERTY LINES MUST MATCH EXISTING ELEVATIONS UNLESS SHOWN OTHERWISE.
- A UTILITY CLEARANCE RADIUS OF 1.2m BETWEEN THE PROPOSED DRIVEWAY ENTRANCE CURB RETURN AND ALL ABOVE GROUND UTILITIES MUST BE MAINTAINED.
- A SILT FENCE AS PER DETAIL B ON THIS DRAWING MUST BE PLACED ALONG PROPERTY LINE AT THE LOW POINTS.
- ALL CURB ON PRIVATE PROPERTY TO BE BARRIER CURB AS PER OPSD 600.11 UNLESS OTHERWISE DIRECTED BY THE OWNER. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE REQUIRED REMOVALS.
- CONNECTION TO EXISTING ASPHALT SHALL BE DONE AS PER LAP JOINT DETAIL THIS DRAWING.
- TOPOGRAPHIC SURVEY PROVIDED BY FARLEY, SMITH & DENIS SURVEYING LTD., ONTARIO LAND SURVEYORS, FEB 19, 2002 (FILE NO. 374-01).
- ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
- ALL AREAS DISTURBED BY THE CONTRACTOR DURING THE CONSTRUCTION OF WORKS SHOWN HEREON SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE CITY OF OTTAWA. ALL GRASS AND VEGETATION COVERED AREAS SHALL BE RESTORED BY PLACING 100mm OF APPROVED TOPSOIL AND SOO TO ESTABLISH A GRASS COVER TO THE SATISFACTION OF THE CITY OF OTTAWA.
- ALL CONSTRUCTION WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS THEREOF. THE CONTRACTOR IS DEEMED TO BE THE CONSTRUCTOR, FOR THE PURPOSES OF THE ACT. ALL CONSTRUCTION SIGNS MUST CONFORM TO THE MTO MANUAL "UNIFORM TRAFFIC CONTROL DEVICES" LATEST ADDITION.
- THE CONTRACTOR SHALL OBTAIN THE PERMIT FROM THE CITY TO CUT THE ROAD, AND CONNECT TO THE EXISTING MUNICIPAL SERVICES. THE CONTRACTOR SHALL MAINTAIN VEHICLE AND PEDESTRIAN TRAFFIC AT ALL TIMES.

ELEVATION NOTE
ELEVATIONS SHOWN HEREON ARE GEODETIC (CGVD-1928-1978) AND ARE DERIVED FROM THE CAN-NET VRS NETWORK MONUMENT: OTTAWA ELEVATION=95.230.

UTILITY NOTE
LOCATION OF UNDERGROUND SERVICES ARE APPROXIMATE AND ARE PER THE CITY OF OTTAWA UCC SHEET No.'s M-15-03 AND M-15-04, PLAN AND PROFILE DWG No. 1725 (SHEET 4 of 6) AND SITE SERVICING PLAN 01 (12320) AND MUST BE VERIFIED PRIOR TO CONSTRUCTION. SITE UNDERGROUND SERVICES LOCATED ON SEPTEMBER 19, 2018 AND MUST BE VERIFIED PRIOR TO CONSTRUCTION.

| | | | |
|-----|-------------------------------|--------------|------|
| 3 | | | |
| 2 | | | |
| 1 | ISSUED FOR SITE PLAN APPROVAL | NOV 23, 2018 | R.M. |
| No. | REVISION | DATE | BY |

RIO CAN
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| GENERAL SERVICING PLAN - 1 | | | |
|----------------------------|---------|--------------|---------------|
| DESIGNED: | R.M. | CHECKED: | R.M. |
| DRAWN: | R.N. | DATE: | NOVEMBER 2018 |
| SCALE: | H 1:250 | PROJECT No.: | 18-227W |
| | | | DRAWING No.: |
| | | | 101 |