



LEGEND

- LOCATE**
 - ELEC — ELECTRICAL
 - SL — ELECTRICAL STREET LIGHT
 - G — GAS
 - COMM — COMMUNICATIONS
 - W — WATER
 - SAN — SANITARY
 - STM — STORM
 - UNK — UNKNOWN SERVICE
 - XX — QUALITY LEVEL B (LOCATION OBTAINED THROUGH USE OF GEOPHYSICAL EQUIPMENT)
 - — QUALITY LEVEL C (LOCATION OBTAINED THROUGH REVIEW OF RECORDS AND IDENTIFICATION OF SURFACE FEATURES)
 - — UTILITY LINE CONTINUES BEYOND SITE BOUNDARY
 - — UNABLE TO LOCATE UTILITY LINE PAST THIS POINT
 - ELEV — GROUND ELEVATION
 - DEPTH — DISTANCE FROM SURFACE OF GROUND TO UTILITY
 - — MANHOLE
- TOPOGRAPHICAL**
 - — WATER VALVE
 - — FIRE HYDRANT
 - ★ — LAMP STANDARD
 - ☼ — GROUND LIGHT
 - — STORM MANHOLE
 - — SANITARY MANHOLE
 - — CATCH BASIN

FIELD INVESTIGATION

- SURVEY OF UNDERGROUND UTILITY INFORMATION WAS COMPLETED BY GEOSCAN SUBSURFACE SURVEYS IN AUGUST 2016. CHANGES TO UTILITIES THAT OCCURRED FOLLOWING OUR INVESTIGATION WILL NOT BE SHOWN.
- THE PURPOSE OF THE INVESTIGATION WAS TO DETERMINE THE HORIZONTAL AND VERTICAL LOCATION OF UNDERGROUND UTILITIES WITHIN THE SITE BOUNDARIES.
- THE UTILITY LOCATE WAS PERFORMED USING GROUND PENETRATING RADAR (GPR) AND ELECTROMAGNETIC (EM) EQUIPMENT.
- MAPPING OF UTILITY LINES WAS PERFORMED USING A HIGH PERFORMANCE GPS IN ORDER TO GENERATE THE UTILITY PLAN. THE DATA SHOWN IS IN THE FOLLOWING COORDINATE SYSTEM: NAD83 (CSRS) V6 EPOCH 2010.00.
- ELEVATIONS WERE GATHERED USING THE CGVD2013 (CANADIAN GEODETIC VERTICAL DATUM).
- ELEVATIONS AND DIMENSIONS SHOWN ARE IN METERS.
- UTILITIES IDENTIFIED AND LOCATED WITHIN THE LOCATE AREA INCLUDE: ELECTRICAL, COMMUNICATIONS, GAS, WATER, STORM, AND SANITARY.
- GEOSCAN PRODUCED A UTILITY DRAWING BASED ON FIELD FINDINGS AND A RECORDS RESEARCH (QUALITY LEVELS D, C, & B AS PER ASCE 38-02-SUE GUIDELINES). SEE 'STANDARD DOCUMENT OF EQUIPMENT AND LIMITATIONS' FOR A DETAILED EXPLANATION OF QUALITY LEVELS.
- THE TOPOGRAPHICAL BASE MAP DRAWING WAS PROVIDED BY THE CLIENT.

ACCURACY OF MEASUREMENTS

QUALITY LEVEL B - LOCATE
 ACCURACY OF LOCATE MEASUREMENTS ARE DEPENDANT ON VARIOUS FACTORS INCLUDING UTILITY DEPTH/DIAMETER/MATERIAL, SOIL CONDITIONS, AND OTHER LIMITING FACTORS. ON AVERAGE, THE FOLLOWING ACCURACIES MAY BE ACHIEVED:
 > HORIZONTAL: +/- 0.5 meters
 > VERTICAL: 10-20% error

GPS SURVEY
 ACCURACY OF SURVEY MEASUREMENTS DEPENDS ON SITE CONDITIONS, SUCH AS TREE COVER AND PROXIMITY TO BUILDINGS. ON AVERAGE THE FOLLOWING ACCURACIES MAY BE ACHIEVED:
 > HORIZONTAL: millimeter
 > VERTICAL: centimeter

CONSULTANT

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CLIENT

REV	DATE	DESCRIPTION	SURVEYED	DRAWN
1		UTILITY LOCATE		

PROJECT

SCALE
 1:500

SUBSURFACE UTILITY ENGINEERING

PROJECT NUMBER: J16XXXX-XX

REV	1
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DRAWING NUMBER: J16XXXX-XX-UX

SHEET NUMBER 1 OF 1