

Appendix J

#### Subsurface Utility Engineering Investigation Report



#### SUBSURFACE UTILITY ENGINEERING (SUE) QUALITY LEVEL B INVESTIGATION

Project #46726 (Warden Ave, Markham, ON)

Subsurface Utility Engineering Report for York Region, ON

Prepared For:

The Regional Municipality of York

Rev No.	Date	Description	Prepared By
01	August 16, 2020	Issued for Client Review	Youssef CHOULLI, P.Eng.





The engineering stamp on this document is to confirm that the Subsurface Utility Engineering work was performed according to the scope of work in the contract, the industry best practices and ASCI 38-02 Standard. The QL-B depiction accuracy is governed by the geophysical tool limitations and site conditions, as detailed in multiVIEW's Terms and Conditions in the last sheet of the attached composite drawing.



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#### 1. INTRODUCTION 1.1 BACKGROUND

The York Region seeks to minimize the overall risk, in preparation for the widening of the Warden Ave, from Elgin Mills Rd to Mackenzie Dr E, Markham, ON and Kennedy Road from Elgin Mills Rd E to Major Mackenzie Dr E. For this reason, The Regional Municipality of York awarded MultiVIEW the contract to perform Subsurface Utility Engineering (SUE) investigation, for the mentioned project area.



Figure 1-1: Aerial View of the Project Area at Warden Avenue and Kennedy Road, Markham. ON





#### **1.2 DEFINITIONS**

Ticket	The notification that multiVIEW sends to the utility owner to inform of any conflict and to prompt the utility owner to provide their record data and as built data of their existing utilities in the project limits.
Right-Of-Way (ROW)	Right-Of-Way refers to subsurface land or property acquired for or intended to be occupied by either a street crosswalk, railroad electric transmission line, oil or gas pipeline, water main sanitary, or storm sewer main, shade trees and/or other special private and public utility facilities.
Locate/ Locating	In this scope of work, Locate, refers to leveraging the surface geophysical methods to interpret the presence of a subsurface utility and to mark its approximate horizontal position (designation) on the ground surface. The process of exposing and recording the precise vertical and horizontal location of a utility is not included in this scope of work.
Utility	A privately, publicly, or cooperatively-owned line, facility, or system for producing, transmitting, or distributing communications, cable television, power, electricity, light, heat, gas, oil, crude products, water, steam, waste, or any other similar commodity, including any fire or police signal system or street lighting system.
The Region	The York Region















#### **1.3 ABREVIATIONS**

ASCE	American Society of Civil Engineers		Quality Level A
AJCL			
Ave	Avenue	QL-B	Quality Level B
вос	Bottom of Chamber	QL-C	Quality Level C
СВ	Catch Basin	QL-D	Quality Level D
CAD	Computer Aided Design	ROW	Right-of-Way
CATV	Cable Television	SUE	Subsurface Utility Engineering
CCTV	Closed Circuit Television	SAN	Sanitary
CI	Construction Institute	St	Street
CSE	Confined Space Entry	STM	Storm
EM	Electromagnetic	T/G	Top of Grate Elevation
EOI	End of Surface Geophysical Information		
EORI	End of Record Information		
GPR	Ground Penetrating Radar		
GPS	Global Positioning System		
INV	Invert		
МН	Maintenance Hole (Man Hole)		
Multiview	multiVIEW Locates Inc.		
N/A	Not Applicable		
OBV	Obvert		







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#### **1.4 REFERENCES**

Ref #	Document #	Document Title	Revision date
1	CI/ASCE 38-02	Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data	2006
2	P-18-69	Subsurface Utility Engineering (SUE) and Utility Coordination Services	March 5, 2018
3	Proposal Project # 46726	Estimate for SUE Consulting Services for The Regional Municipality of York. Warden Ave. & Elgin Mills Rd, Markham, ON	May 19, 2020

















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#### **2. EXECUTIVE SUMMARY**

multiVIEW Locates Inc. has performed the SUE investigation; fieldwork Quality level B (QL-B) and completed the desktop investigation for the project area of the Warden Ave; from Elgin Mills Rd to Mackenzie Drive East, Markham, ON and Kennedy Road; from Elgin Mills Rd to Mackenzie Drive East, Markham, ON . That is defined in the map and scope of work, shown in Figure 1-1 and Figure 2-1.



Figure 2-1: Key Map from the Composite SUE QL-B Drawing (Attached in Appendix A)

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The present report and attached composite drawing will support the detailed design of the project (e.g. utility relocation plans), allow more accurate cost estimation, minimize risks, and support any prioritization of utility conflicts.

Through a combination of record data analysis, mobilization of personnel and equipment, field verification and professional judgement, this SUE investigation helped to identify and confirm the location of the below ground utilities infrastructure and appurtenances as defined in CI/ASCE 38-02, within the work area and project limits.

The consolidation of the above-mentioned information and investigation results have been integrated into the SUE QL-B Composite CAD Drawing, attached in Appendix -A.

#### **3. OBJECTIVE, SCOPE OF WORK & PROJECT LIMITS**

This Subsurface Utility Engineering Investigation has as an objective to identify the location of below ground utilities infrastructure and appurtenances, as defined in CI/ASCE 38-02, Ref [1] and as per Contract, Ref [3].

Project includes the investigation area as per Figure 3-1 and Figure 3-2.



Figure 3-1: Sketch Map of the SUE Investigation & Scope of Work on Warden Avenue

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Figure 3-2: Sketch Map of the SUE Investigation & Scope of Work on Kennedy Road

The project limits defined as follows and shown in Figure 3-1 and Figure 3-2.

The work area for this survey is located -

- 1. Approximately 2.5 kilometers on Warden Avenue from 300 meters North of Elgin Mills Road to 100 meters south to Major Mackenzie Road, Markham, ON
- 1a. Approximately 300 meters east on Elgin Mills Road, Markham, ON
- 1b. Approximately 300 meters west on Elgin Mills Road, Markham, ON
- 1c. Approximately 300 meters east on Major Mackenzie Drive, Markham, ON
- 1d. Approximately 300 meters west on Major Mackenzie Drive, Markham, ON
- 1e. Approximately 100 meters on Heritage Drive west, Markham, ON

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Concrete Scan









2. Approximately 2.5 kilometers on Kennedy Road from 300 meters North of Elgin Mills Road to 100 meters south to Major Mackenzie Road, Markham, ON

2a. Approximately 300 meters east on Elgin Mills Road, Markham, ON

- 2b. Approximately 300 meters west on Elgin Mills Road, Markham, ON
- 2c. Approximately 300 meters east on Major Mackenzie Drive, Markham, ON
- 2d. Approximately 300 meters west on Major Mackenzie Drive, Markham, ON

The scope of work includes the following:

- Complete the desktop investigation (QL-D)
- Complete above ground utility survey (QL-C) of visible above ground utility features
- Using Electromagnetic pipe and cable locating systems and accessories, multiVIEW will locate and mark all toneable underground utility mains: electrical, gas, communications and water within the project area.
- Using differential GPS system, survey the spatial position of field markings where site conditions allow.

The Region provided multiVIEW with a Topo AutoCAD drawing base map and some record data. This AutoCAD drawing was used as a base map.

Details of the investigation are outlined in the subsequent Sections.















#### 4. PROVIDED RECORD DATA AND VALIDITY

multiVIEW, with the help of the Region, identified utility owners with facilities within the project limits. multiVIEW raised tickets for all the possible utility owners, then obtained and reviewed all existing utility information and records. These utility owners include mainly the following:

- The Regional Municipality of York
- Ontario One Call
- Alectra-Powerstream
- Bell, Rogers, Telus, Zayo and other Allstream Telecommunications
- Enbridge Pipelines Gas Inc.

A detailed list of contacted utilities owners and their contact details is provided in Appendix B.

Utility owners typically mention a validity period of six months from issuance of the provided information, which is attached to the record data.

Enbridge Gas Inc. provides typically the following guideline related to their plant for third party:

o Third Party Requirements in The Vicinity of Natural Gas Facilities

Copy of this guideline is attached in Appendix C.













#### **5. SUE INVESTIGATION METHODOLOGY**

The SUE investigation was performed according to the CI/ASCE 38-02 Standard, Ref [1]. This investigation included data collection, depiction, data analysis, site visits and inspections.

A SUE investigation involves the collection of utility data through four (4) Quality Levels, or activities, as per Figure 6-1 below. Comparing and analyzing data makes it possible to achieve a complete and accurate composite data set for making informed decisions within a project or impact area.



Figure 5-1: Quality Levels for SUE Investigation

In this study, the first three SUE Quality Levels; QL-D, QL-C and QL-B have been requested and performed accordingly.

Quality Level D (QL-D): Information derived from existing records or oral recollections.

**Quality Level C (QL-C):** Information obtained by surveying and plotting visible above-ground utility features and using professional judgment to correlate this information to Quality Level D information.

**Quality Level B (QL-B):** Involves the application of surface geophysical methods to determine the existence and horizontal position of subsurface utilities within a project's limits. Non-destructive technologies including Ground Penetrating Radar (GPR) and Electromagnetic (EM) tools are leveraged at this stage to accurately detect conductive and non-conductive underground assets. Quality Level B information is correlated with Quality Levels C & D to provide a comprehensive subsurface utility dataset that includes abandoned lines and other discrepancies, while confirming the accuracy of record data.



















Quality Level A (QL-A): Also known as daylighting, provides the precise horizontal and vertical location of utilities along with type, size, condition and material, obtained by the actual exposure (or verification of previously exposed and surveyed utilities) usually through vacuum excavation.

For this project, multiVIEW's QL-B investigation entailed the following activities:

- Mobilize a crew of trained technicians equipped with Electromagnetic (EM) utility locating devices to complete the utility mapping exercise, and determine the existence and approximate horizontal position of toneable buried plant within the project site. The devices can accurately locate the position of steel pipes and cables (conductive), but cannot locate non-metallic utilities such as plastic pipes, drain tiles, concrete sewers or vitreous clay pipe where tracer wires are unavailable (non-conductive).
- The team then marked the inferred utility positions (conductive and non-conductive)
- The team surveyed all subsurface markings and surface features
- Sewer maintenance holes and water chambers were not surveyed and excluded form the SUE scope of work, based on Client request.















#### **6. EQUIPMENT FOR SITE INVESTIGATION**

Electromagnetic (EM) Induction tools (RD4000 PL Radio-detection type), otherwise known as pipe and cable locating, were leveraged to carry out the Quality Level B component of the SUE program and accurately locating buried infrastructure utilities.

This technique is extremely effective for locating utilities comprised of electrically conductive material or those that contain an intact tracer wire.



Figure 6-1: Electromagnetic (EM) Induction Process (Pipe and cable Locating)

The following two main detection principles have been applied:

- Passive location Used to locate an electromagnetic field already present on a utility
- Active location Used as a signal transmitter to add a specific signal onto a located utility

Low frequency long wave radio signals transmitted from a radio mast pass into the ground, inducing a signal onto metallic utilities. The utilities re-emit these signals and are located and traced using a cable locator in RADIO mode.















When an alternating current (AC) travels along a cable, an electromagnetic field is generated. The alternating current creates a magnetic field and the oscillation of the current between positive and negative creates a frequency known as Hertz (Hz). The electromagnetic field generated by an AC current can be detected by a cable locator.

#### **7. RESULTS OF THE SUE SITE INVESTIGATION**

A number of QL-C and QL-B job site investigations have been performed using equipment outlined in Section 6 to collect and depict data within the project area between May and August 2020.

The site investigation was performed based on the record data and visible features. The updated and detailed position of the utilities was confirmed and the lines were designated in the project area and then represented in the composite CAD Drawing, (46726-SUE-DWG) in Appendix A, in which was displayed with the most accurate possible estimate of its actual location.

These utilities include:

- Enbridge Gas lines Gas main
- Watermain
- Bell
- Bell Fiber
- Hydro cable (H)

- Traffic Light (TL)
- Street Light (SL)















#### 8. SUE INVESTIGATION CHALLENGES AND DISCREPANCIES

A number of challenges were encountered in the project on site, which can explain some of the missing information regarding the lost signals, some missing details. These challenges and some considerations can be summarized as the following:

- Non-toneable sections of Water, electrical and communications lines
- No records for Sewers have been collected and no survey was done on site for STM and SAN lines.
- Street Light (SL) utility lines depiction was based on the site investigation only. No records have been collected, except the data provided by Client in the base Map.
- Identification and depiction of Culverts are not included in this SUE scope of work.
- All the data regarding pipe diameter, material and pressure were taken from the records and have not been verified.
- Overhead utilities are excluded from the scope of this SUE composite drawing.
- A discrepancy about water lines found on site and not in records was highlighted in sheet 3 of the composite Drawing 46726-SUE-DWG-Rev 01.
- No records were available for the utilities in some sections of the project, as mentioned in the composite drawing.















#### APPENDIX A: SUE QL-B- PROJECT AREA COMPOSITE CAD **DRAWINGS (46726-SUE-DWG)**



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#### **APPENDIX B: UTILITY OWNER CONTACT LIST AND RECORD** VALIDITY

Utility	Contact Details Information	Date for Requested Info	Date of Info Received	Type of Data received	Remarks
Bell Canada	Sanzhar Zhorabayev Technicien CAD, Ingénierie - Centre du Canada CAD Technician - MOC, Engineering - Central Canada T : 289.657.8145 7777 Weston Road Vaughan, ON L4L 0G9	2020-06-23	2020-07-09	CAD Drawing	6 months validity from issuance of information
Enbridge Gas	mark-ups <mark- Ups@enbridge.com&gt; Kishore Sagar</mark- 	2020-06-23	2020-06-26	PDF Drawing mark up	
Alectra	Micheline Email- recordseast.info@alectrautilities.com	2020-06-23	2020-06-23		
Beanfield (Formerly Aptum Technologies, Cogeco Peer1)	Dipen Shah Design Technician Direct phone. 416.583.2096 email. dipen@beanfield.com	2020-06-23	2020-06-23		Beanfield (Including Former Aptum) has no

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Utility	Contact Details Information	Date for Requested Info	Date of Info Received	Type of Data received	Remarks
					infrastructure in your working area
Telecon (GT)	Mary Tina CAD Technician, Engineering-Central Canada 7777 Weston Road, Woodbridge, ON L4L 0G9 T 289-657-8072	2020-06-23	2020-07-08		GT has no plant within 2m of proposed work- NO CONFLICT
Hydro One	TPUCC Markup - Hydro One. tpumarkup@hydroone.com	2020-06-23	2020-06-25		Hydro One does not owns nor operates underground high voltage transmission facilities in the Project area
Water & Sewer	Arnoor Public Works Permits Infrastructure Planning & Policy Public Works Halton Region 905-825-6000, ext. 6032   1-866- 442-5866	2020-09-29	2020-06-25		There is no water main or sanitary & storm sewer in the area.
OOC Ontario One Call	Solutions@on1call.com	2020-06-23	2020-09-23		
York Region Water & Wastewater		2020-06-23	2020-06-29 2020-06-23		
Rogers	Shoaib Akram CAD Technician, Engineering - Central Canada T 289-657-8020 7777 Weston Rd, Woodbridge (Ontario) L4L 0G9	2020-06-23	2020-07-16		Rogers has no existing plant in the area

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Utility	Contact Details Information	Date for Requested Info	Date of Info Received	Type of Data received	Remarks
Zayo	Phil Arbeau Utility Circulations phil.arbeau@zayo.com	2020-06-23	2020-07-15		Zayo has no existing plant in the area
Telus	Indira Sharma (Project Support) Email: telusutilitymarkups@Telecon.ca 289-657-8256 7777 Weston Road Vaughan, ON L4L 0G9	2020-06-23	2020-06-25		TELUS has no infrastructure in the area of your proposed work.

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#### **APPENDIX C:** THIRD PARTY REQUIREMENTS IN THE VICINITY OF NATURAL **GAS FACILITIES**



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## **SUE NOTES:**

**1.** The SUE Site investigation was performed on June 2020 with a sewers structures (MHs & CBs) survey updated on September 2021.

2. Discrepancies between utilities records received from utilities owners are highlighted in this drawing (see sheets).

3. This drawing was updated with records from the York Region utilities map website for the missing Sewers records.

**4.** Identification and depiction of Culverts and Ditches are outside of this SUE scope of work.

5. Street Light (SL) and Traffic Lights (TL) utility lines depiction was based on the site investigation only. No records have been collected, except Alectra records for Hydro.

6. The Sewer records and the connections of STM and SAN are based on the collected data and the QL-C. For this

reason, it is highly recommended to perform sonding in order to establish and/or confirm connections.

7. Any data regarding pipe diameter, material and pressure were taken from the records and have not been verified. QL-A is recommended to get depth of the utilities, diameter and material composition.

**8.** For more information and details please see the project report: #46726-SUE-Report-Rev01

9. No record of service utility lines were available nor collected. All the depicted service lines included in this composite

drawing are based on the geophysical survey only.

10. Please see some SUE investigation challenges and Technical limitations on sheet #64







## FOR: THE REGIONAL MUNICIPALITY OF YORK

## **PROJECT NO: 46726 PROJECT NAME: WARDEN AVE & KENNEDY RD**

## MARKHAM

DATE: 2021-08-13

Subsurface Utility Engineering CI/ASCE 38-02 Quality Levels

QL'A': Visual verification of utility location and depth using excavation methods. i.e. Hydrovac. QL'B': Utility located using surface geophysical methods i.e. electronically applied or induced magnetic field using specific utility locate equipment or ground penetrating radar QL'C': Utility plotted using record information in conjunction with a

visual field survey of utility furniture. QL'D': Utility plotted using record information only. This can include oral recollection.

- but do not constitute information obtained and delivered by multiVIEW Locates Inc. during the course of this project.
- CAN-NET Reference Network.



The engineering stamp on this drawing is to confirm that the Subsurface Utility Engineering work was performed according to the scope of work in the contract, the industry best practices and ASCI 38-02 Standard. The QL-B depiction accuracy is governed by the geophysical tool limitations and site conditions, as detailed in multiVIEW's Terms and Conditions in the last sheet of the attached composite drawing.

# **KEY MAP**

GENERAL NOTES

1. This information is provided for design purposes only. 2. All inverts shown on this plan by multiVIEW Locates Inc.are in meters and were measured from the top of the manhole and/or catch basin lids. 3. Subsurface utility information shown on this drawing was obtained on a best effort, best practices basis, within the technical limitations of the instrumentation.

Utilities shown on this map by multiVIEW Locates Inc. were located using ASCE 38-02 Quality Level 'B' methods unless otherwise noted. All other information hereon has been supplied by others and is not certified. 5. Third party information provided on these drawings are for the convenience of use

6. Elevations represented for this study were obtained by multiVIEW Locates Inc. utilizing datum derived by differential GPS observations and referred to the



Tel: 1-800-363-3116 Email: <u>sales@multiview.ca</u> www.multiview.ca





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SUE UTILITY FEATURES CODES
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Manhole Water Valve N Traffic Camera C Gas Valve	Bell/Rogers Ped Hydro Pole Hand Well Trafficlight Pole	Catch Basin
Gas Valve	Trafficlight Pole	Fire Hydrant

SCALE 1:200

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THE LOCATION OF UNDERGROUND SERVICES SHOULD BE VERIFIED PRIOR TO EXCAVATION. UTILITY LOCATES ARE REQUIRED PRIOR TO ANY EXCAVATION ACTIVITY Tel: 1-800-363-3116 Site: Fax:1-866-571-5946 \ SUBSURFACE UTILITY ENGINEERING HYDRO EXCAVATION & CCTV CONCRETE SCANNING UTILITY LOCATES NEAR-SURFACE GEOPHYSICS www.multiVIEW.ca 325 Matheson Blvd East Mississauga, ON, L4Z1X8

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to confirm that the Subsurface Utility Engineering work was performed according to the scope of work in the contract, the industry best practices and ASCI 38-02 Standard. The QL-B depiction accuracy is governed by the geophysical tool limitations and site conditions, as detailed in multiVIEW's Terms and Conditions in the last sheet of the attached composite drawing.

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G	Gasmain	Е	Electrical	G	Gas (QL-D)	<u>H(TR</u> ENCH)	Hydro Trench
BT	Bell	SL	Streetlight	<u>BT</u>	Bell (QL-D)	Z <u>AYD</u>	Zayo (QL-D)
BFD	Bell FO	TL	Trafficlight	<u>_RFD</u> _	RFO (QL-D)	<u>_STM</u> _	Storm (QL-D)
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Hand Well

(LP)

(Trafficlight Pole

Traffic Camera

Gas Valve

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Transformer

Fire Hydrant

SCALE 1:200

# NO VISUAL LEADS-ON THIS CB

## Data presented herein is subject to multiVIEW's terms and conditions as listed on the final page of the contract drawings.



THE LOCATION OF UNDERGROUND SERVICES SHOULD BE VERIFIED PRIOR TO EXCAVATION. UTILITY LOCATES ARE REQUIRED PRIOR TO ANY EXCAVATION ACTIVITY Tel: 1-800-363-3116 Fax:1-866-571-5946 SUBSURFACE UTILITY ENGINEERING HYDRO EXCAVATION & CCTV CONCRETE SCANNING UTILITY LOCATES NEAR-SURFACE GEOPHYSICS

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MATCHLINE (SEE SHEET 3)

Project No.: Date: Surveyed/Drawn By: Appr: The engineering stamp on this drawing is to confirm that the Subsurface Utility Engineering work was performed according to the scope of work in the contract, the industry best practices and ASCI 38-02 Standard. The QL-B depiction accuracy is governed by the geophysical tool limitations and site conditions, as detailed in multiVIEW's Terms and Conditions in the last sheet of the attached composite drawing.





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ulti	VIAN	THE LOCATION OF UNDERGROUND SERVICES SHOULD BE VERIFIED PRIOR TO EXCAVATION. UTILITY	46726 2021-08-13	EW/RF Y	C Engine	eering work was performed according	
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SUBS H` NE	URFACE UTILITY ENGINEERING YDRO EXCAVATION & CCTV CONCRETE SCANNING UTILITY LOCATES FAR-SURFACE GEOPHYSICS	I el: 1-800-363-3116 Fax:1-866-571-5946 www.multiVIEW.ca 325 Matheson Blvd East Mississauga ON 147128	Site: WARDEN AVE & KEN MARKHAM, ON	NEDY RD	limitati in mul last s	ions and site conditions, as detailed tiVIEW's Terms and Conditions in the sheet of the attached composite	



<u> </u>	Gasmain	E	Electrical	<u> </u>	Gas (QL-D)	<u>H(TRENCH)</u>	Hydro Trench
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BFD	Bell FO	TL	- Trafficlight	<u>_RFD</u>	RFO (QL-D)	<u>_STM</u>	Storm (QL-D)
RFD	Rogers FO —	STM	Storm Sewer	H	Hydro (QL-D)		Project Boundaries
			ALL UTILITIES DE	EPICTED ARE AT "(	QUALITY LEVEL B'	UNLESS OTHERW	ISE NOTED

	SHE	ET 6 of	64	DRAWING No: 47626-SUE- DWG	
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SUE UTILITY FEATURES CODES         Manhole       Bell/Rogers Ped       Catch Basin         Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Catch Basin         Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Catch Basin         Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Catch Basin         Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Colspan="2">Catch Basin         Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2"         Image: Colspan="2"       Image: Col		-	
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SUBSURFACE UTILITY ENGINEERING HYDRO EXCAVATION & CCTV CONCRETE SCANNING UTILITY LOCATES NEAR-SURFACE GEOPHYSICS

		Project No.:	Date:	Surveyed/Drawn By:	Appr		
THE LOCATION OF UNDERGROUND SERVICES SHOULD BE VERIFIED PRIOR TO EXCAVATION. UTILITY		46726	2021-08-13	EW/RF	YC		
	LOCATES ARE REQUIRED PRIOR TO ANY EXCAVATION ACTIVITY	<sup>&gt;</sup> For: THE REGIONAL MUNICIPALITY OF Y					
	Tel: 1-800-363-3116 Fax:1-866-571-5946	Site: WARD	EN AVE & KEN	NEDY RD			

WARDEN AVE & KENNEDY RD MARKHAM, ON

Appr: The engineering stamp on this drawing is to confirm that the Subsurface Utility Engineering work was performed according to the scope of work in the contract, the industry best practices and ASCI 38-02 Standard. The QL-B depiction accuracy is governed by the geophysical tool limitations and site conditions, as detailed in multiVIEW's Terms and Conditions in the last sheet of the attached composite drawing.

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				SUE UTILI	TY CODES		
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RFD	Rogers FO	STM	Storm Sewer	<u>H</u> _	Hydro (QL-D)		<ul> <li>Project Bounda</li> </ul>
				S DEPICTED ARE AT	"QUALITY LEVI	EL B" UNLESS OTHER	WISE NOTED



	SHEI	ET 9 of	64		DRAWING No: 47626-SUE- DWG
	Rev. No.	Drawn By	Checked By	Date	Revision
Quality Level C	-	-	-	-	-
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	Manhole Water Valve Water Car C Gas Valve	Bell/Rogers Ped ⊠ ve Hydro Pole (FP) mera Hand Well (FW) e Trafficlight Pole	Catch Basin Catch Basin Street Light Pole Transformer				
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Data presented herein is a conditions as listed on the	subject to m e final page	nultiVIEW's terms and of the contract drawings.	Project No ·	ite:		Appr	The original stamp on this drawing is
	TH	IE LOCATION OF UNDERGROUND RVICES SHOULD BE VERIFIED	46726 2021-	08-13	EW/RF	Appr: YC	to confirm that the Subsurface Utility Engineering work was performed according
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SUBSURFACE UTILITY ENGINI HYDRO EXCAVATION & CO CONCRETE SCANNING UTILITY LOCATES NEAR-SURFACE GEOPHYS	EERING CTV SICS	Tel: 1-800-363-3116 Fax:1-866-571-5946 www.multiVIEW.ca 325 Matheson Blvd East	Site: WARDEN AVE MARKHAM, O	E & KENNE	DY RD		Standard. The QL-B depiction accuracy is governed by the geophysical tool limitations and site conditions, as detailed in multiVIEW's Terms and Conditions in the last sheet of the attached composite

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www.multiVIEW.ca	MARKHAM ON
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	SHE	ET 10 c	of 64		DRAWING No: 47626-SUE- DWG
	Rev. No.	Drawn By	Checked By	Date	Revision
Quality Level C	-	-	-	-	-
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UTILITY LOCATES	
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SHEET 11 of 64 DRAWING No: 47626-SUE- DWG Quality Level B Rev. No. | Drawn By | Checked By | Date Revision Quality Level C ----\_ \_ \_ \_ \_ \_ \_ Quality Level D \_\_\_\_\_

SUE UT	ILITY FEATURES	CODES
Manhole Water Valve Sas Valve Gas Valve M	Bell/Rogers Ped	Catch Basin

SCALE 1:200



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(SEE SHEET 13) MATCHLINE	B		BINEWAY		
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- PROJECT BOUNDARIES

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> SHEET 12 of 64 DRAWING No: 47626-SUE- DWG Quality Level B Rev. No. Drawn By Checked By Date Revision Quality Level C -----Quality Level D \_\_\_\_\_

SUE UTILITY FEATURES CODES			
Manhole     Bell/Rogers Ped     Cato       Image: Construction of the stree     Image: Construction of the stree     Image: Construction of the stree       Water Valve     Hydro Pole     Stree       Image: Construction of the stree     Image: Construction of the stree     Image: Construction of the stree       Traffic Camera     Hand Well     Trans       Image: Construction of the stree     Image: Construction of the stree     Image: Construction of the stree       Gas Valve     Traffic light Pole     Fire       Image: Construction of the stree     Image: Construction of the stree	ch Basin et Light Pole		
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Insight, not hindsight	THE LOCATION OF UNDERGROUND SERVICES SHOULD BE VERIFIED PRIOR TO EXCAVATION. UTILITY LOCATES ARE REQUIRED PRIOR TO ANY EXCAVATION ACTIVITY	Project No.:	Date:	Surveyed/Drawn By:	Appr:	The engineering stamp on this drawing is		
		46726	2021-08-13	EW/RF	YC	to confirm that the Subsurface Utility Engineering work was performed according		
		For: THE REGIONAL MUNICIPALITY OF YORK				to the scope of work in the contract, the industry best practices and ASCI 38-02 Standard. The QL-B depiction accuracy is		
SUBSURFACE UTILITY ENGINEERING HYDRO EXCAVATION & CCTV CONCRETE SCANNING UTILITY LOCATES NEAR-SURFACE GEOPHYSICS	Tel: 1-800-363-3116 Fax:1-866-571-5946 www.multiVIEW.ca 325 Matheson Blvd East Mississauga, ON, L4Z1X8	Site: WARDEN AVE & KENNEDY RD MARKHAM, ON				limitations and site conditions, as detailed in multiVIEW's Terms and Conditions in the last sheet of the attached composite drawing.		



## PROJECT BOUNDARIES

	Quality Level B Quality Level C	SHE	ET 13 c	of 64		DRAWING No: 47626-SUE- DWG
		Rev. No.	Drawn By	Checked By	Date	Revision
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	Quality Level D					
SUE UT		CODES				
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Manhole Water Valve Straffic Camera Co Gas Valve	Bell/Rogers Ped	Catch Basin				

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MARKHAM ON

Project No.:

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	w	atermainH	Hydro	Water (QL-D)	
	Ga BTBe	asmainL	Electrical	Gas (QL-D)	Hydro Trench
	BFD Be	II FOTL	Trafficlight	RFD RFO (QL-D)	

— – H – – Hydro (QL-D) – Project Boundaries ALL UTILITIES DEPICTED ARE AT "QUALITY LEVEL B" UNLESS OTHERWISE NOTED

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SHEET 14 of 64 DRAWING No: 47626-SUE- DWG Quality Level B Rev. No. Drawn By Checked By Date Revision Quality Level C -----\_ \_ \_ \_ \_ \_ \_ Quality Level D \_\_\_\_\_

SUE UTILITY FEATURES CODES						
Manhole Water Valve S Traffic Camera C Gas Valve S C C C C C C C C C C C C C	Bell/Rogers Ped	Catch Basin Catch Basin Street Light Pole Catch Basin Street Light Pole Catch Basin Fire Hydrant Catch Basin Catch Basin Fire Hydrant				
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UTILITY LOCATES	325 Matheson Blvd East
NEAR-SURFACE GEOPHYSICS	Mississauga, ON, L4Z1X8

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Date:

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ding the		G Gasmain	E Electrical	Water (QI	D)H(TRENCH) Hydro Trench	Quality Level D Quality Level C	Rev. No.   Drawn By   Checked By   Date     -   -   -   -	Revision -
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SUE UTILITY FEATURES CODES				
Manhole Water Valve S Traffic Camera C Gas Valve S S S S S S S S S S S S S	Bell/Rogers Ped Hydro Pole P Hand Well W Trafficlight Pole Trafficlight Pole	Catch Basin		



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CONCRETE SCANNING	www.multi
	325 Matheson
NEAR-SURFACE GEOPHYSICS	Mississaura (

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SEE SHEET 17 MATCHUNE	
₩ WatermainH	SUE UTILITY CODES           Hydro           Water (QL-D)          TV (QL-D)
G GasmainE	ElectricalG Gas (QL-D)H(TRENCH) Hydro Trench
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KF ⊔ Rogers FOS⊺ M	Storm Sewer       —       —       Hydro (QL-D)       Project Boundar         ALL UTILITIES DEPICTED ARE AT "QUALITY LEVEL B" UNLESS OTHERWISE NOTED

	SHEI	ET 16 c	of 64		DRAWING No: 47626-SUE- DWG
	Rev. No.	Drawn By	Checked By	Date	Revision
Quality Level C	-	-	-	-	-
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SUE UT	ILITY FEATURES	CODES
Manhole Water Valve Vater Camera Co Gas Valve M	Bell/Rogers Ped	Catch Basin



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		Project No.:	Date:	Surveyed/Drawn By:	Appr:	The engineering stamp on this drawing is			
Insight, not hindsight	THE LOCATION OF UNDERGROUND SERVICES SHOULD BE VERIFIED PRIOR TO EXCAVATION. UTILITY LOCATES ARE REQUIRED PRIOR TO ANY EXCAVATION ACTIVITY	46726	2021-08-13	EW/RF	YC	to confirm that the Subsurface Utility Engineering work was performed according			
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SUBSURFACE UTILITY ENGINEERING HYDRO EXCAVATION & CCTV CONCRETE SCANNING UTILITY LOCATES NEAR-SURFACE GEOPHYSICS	Tel: 1-800-363-3116 Fax:1-866-571-5946 www.multiVIEW.ca 325 Matheson Blvd East Mississauga, ON, L4Z1X8	Site: WARDEN AVE & KENNEDY RD MARKHAM, ON				limitations and site conditions, as detailed in multiVIEW's Terms and Conditions in the last sheet of the attached composite drawing.			

		(SEE SHEET 18) MATCHLINE		8					
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		BFD RFD	Bell FO Rogers FO	TL STM	Trafficlight	<u>RFD</u>	RFO (QL-D)	<u>STM</u>	Storm (QL-D) Project Bounda

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#### SHEET 17 of 64 DRAWING No: 47626-SUE- DWG Quality Level B Rev. No. Drawn By Checked By Date Revision Quality Level C -----Quality Level D \_\_\_\_\_

SUE UTILITY FEATURES CODES								
Manhole Water Valve S Traffic Camera C Gas Valve S	Bell/Rogers Ped	Catch Basin						

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SCALE 1:200

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SUBSURFACE UTILITY ENGINEERING HYDRO EXCAVATION & CCTV	-
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	SHE	ET 19 c	of 64		DRAWING No: 47626-SUE- DWG		
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SUE UTILITY FEATURES CODES								
Manhole Water Valve Sas Valve Mathematical Water Valve Mathematical Water Valve Mathematical Manhole Water Valve Mathematical Mathe	Bell/Rogers Ped Hydro Pole P Hand Well Trafficlight Pole P	Catch Basin						

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Data presented herein is subject t conditions as listed on the final pa	o multiVIEW's terms and ige of the contract drawings.					×
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SUBSURFACE UTILITY ENGINEERING HYDRO EXCAVATION & CCTV CONCRETE SCANNING UTILITY LOCATES NEAR-SURFACE GEOPHYSICS	Tel: 1-800-363-3116 Fax:1-866-571-5946 www.multiVIEW.ca 325 Matheson Blvd East Mississauga, ON, L4Z1X8	Site: WARDI MARKH	EN AVE & KEN HAM, ON	INEDY RD		limitations and site c in multiVIEW's Terms last sheet of the drawing.

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	SHEI	ET 20 c	of 64		DRAWING No: 47626-SUE- DWG
	Rev. No.	Drawn By	Checked By	Date	Revision
Quality Level C	-	-	-	-	-
Quality Level D					

SUE UTILITY FEATURES CODES						
Manhole Water Valve Mater Camera Co Gas Valve	Bell/Rogers Ped	Catch Basin				



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CONCRETE SCANNING	
UTILITY LOCATES	
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Mississauga, ON, L4Z1X8	

THE LOCATION OF UNDERGROUND SERVICES SHOULD BE VERIFIED PRIOR TO EXCAVATION. UTILITY LOCATES ARE REQUIRED PRIOR TO ANY EXCAVATION ACTIVITY

Project No.:

46726

Date:

2021-08-13

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Quality Level B	SHE	ET 21 c	of 64		DRAWING No: 47626-SUE- DWG
	Rev. No.	Drawn By	Checked By	Date	Revision
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Quality Level D					

SUE U1		CODES
Manhole Water Valve N Traffic Camera C Gas Valve N	Bell/Rogers Ped	Catch Basin



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SUBSURFACE UTILITY ENGINEERING	I F
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NEAR-SURFACE GEOPHYSICS	325

Tel: 1-800-363-3116	Site:				
Fax:1-866-571-5946	WARDEN AVE & KENNEDY RD				
www.multiVIEW.ca	MARKHAM ON				
25 Matheson Blvd East					
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2021-08-13

THE REGIONAL MUNICIPALITY OF YORK

 

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 The engineering work was performed according to the scope of work in the contract, the industry best practices and ASCI 38-02 Standard. The QL-B depiction accuracy is governed by the geophysical tool limitations and site conditions, as detailed in multiVIEW's Terms and Conditions in the last sheet of the attached composite

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SUBSURFACE UTILITY ENGINEERING HYDRO EXCAVATION & CCTV CONCRETE SCANNING UTILITY LOCATES NEAR-SURFACE GEOPHYSICS	Tel: 1-800-363-3116 Fax:1-866-571-5946 www.multiVIEW.ca 325 Matheson Blvd East Mississauga, ON, L4Z1X8	Site:

THE REGIONAL MUNICIPALITY OF YORK

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Surveyed/Drawn By: Appr: The engineering stamp on this drawing is to confirm that the Subsurface Utility Engineering work was performed according to the scope of work in the contract, the industry best practices and ASCI 38-02 Standard. The QL-B depiction accuracy is governed by the geophysical tool limitations and site conditions, as detailed in multiVIEW's Terms and Conditions in the last sheet of the attached composite drawing.

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Storm Sewer Hydro (QL-D) Project Boundaries ALL UTILITIES DEPICTED ARE AT "QUALITY LEVEL B" UNLESS OTHERWISE NOTED

	SHE	ET 23 c	of 64		DRAWING No: 47626-SUE- DWG		
	Rev. No.	Drawn By	Checked By	Date	Revision		
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				SUE UTIL	TY CODES		
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BT	Bell	SL	Streetlight	<u>BT</u>	Bell (QL-D)	<u>ZAYD</u>	Zayo (QL-D)
BFD	Bell FO	TL	Trafficlight	<u>RFD</u> _	RFO (QL-D)	<u>STM</u> _	Storm (QL-D)
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			ALL UTILIT	IES DEPICTED ARE AT	Г "QUALITY LEVE	EL B" UNLESS OTHER	WISE NOTED



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HYDRO EXCAVATION & CCTV	Fax:1-866-571-5946	
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NEAR-SURFACE GEOPHISICS	Mississauga, ON, L4Z1X8	

WARDEN AVE & KENNEDY RD MARKHAM, ON East

to the scope of work in the contract, the industry best practices and ASCI 38-02 Standard. The QL-B depiction accuracy is governed by the geophysical tool limitations and site conditions, as detailed in multiVIEW's Terms and Conditions in the last sheet of the attached composite drawing.

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ALL UTILITIES DEPICTED ARE AT "QUALITY LEVEL B" UNLESS OTHERWISE NOTED



SUE U1	ILITY FEATURES	CODES
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## No records/utilities found in this area

Data presented herein is subject to multiVIEW's terms and conditions as listed on the final page of the contract drawings.								
		Project No.:	Date:	Surveyed/Drawn By:	Appr:	The engineering stamp on this drawing is		
	THE LOCATION OF UNDERGROUND SERVICES SHOULD BE VERIFIED PRIOR TO EXCAVATION. UTILITY LOCATES ARE REQUIRED PRIOR TO ANY EXCAVATION ACTIVITY	46726	2021-08-13	EW/RF	YC	to confirm that the Subsurface Utility Engineering work was performed according		
Insight, not hindsight		For: THE RI	EGIONAL MUN	IICIPALITY OF YOF	RK	to the scope of work in the contract, the industry best practices and ASCI 38-02 Standard. The QL-B depiction accuracy is		
SUBSURFACE UTILITY ENGINEERING HYDRO EXCAVATION & CCTV CONCRETE SCANNING UTILITY LOCATES NEAR-SURFACE GEOPHYSICS	Tel: 1-800-363-3116 Fax:1-866-571-5946 www.multiVIEW.ca 325 Matheson Blvd East Mississauga, ON, L4Z1X8	Site: WARDEN AVE & KENNEDY RD MARKHAM, ON				limitations and site conditions, as detailed in multiVIEW's Terms and Conditions in the last sheet of the attached composite drawing.		

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B1	Bell	SL	Streetlight	<u>BT</u>	Bell (QL-D)	<u>ZAYD</u>	Zayo (QL-D)
BF	Bell FO	TL	Trafficlight	<u>RFD</u>	RFO (QL-D)	<u>_STM</u>	Storm (QL-D)
RF	Rogers FO	STM	Storm Sewer	<u>     H                               </u>	Hydro (QL-D)		<ul> <li>Project Boundar</li> </ul>

ALL UTILITIES DEPICTED ARE AT "QUALITY LEVEL B" UNLESS OTHERWISE NOTED



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SUBSURFACE UTILITY ENGINEERING HYDRO EXCAVATION & CCTV CONCRETE SCANNING UTILITY LOCATES NEAR-SURFACE GEOPHYSICS	Tel: 1-800-363-3116 Fax:1-866-571-5946 www.multiVIEW.ca 325 Matheson Blvd East Mississauga, ON, L4Z1X8	Site: WARDEN AVE & KE MARKHAM, ON	NNEDY RD		governed by the geop limitations and site conditions in multiVIEW's Terms and Cou last sheet of the attache drawing.	hysical tool s, as detailed nditions in the d composite



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	SHEET 27 of 64				DRAWING No: 47626-SUE- DWG
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Quality Level D					

SUE UTILITY FEATURES CODES						
Manhole Water Valve C Traffic Camera C Gas Valve C Sas Valve	Bell/Rogers Ped	Catch Basin				



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	Project No.:	

THE LOCATION OF UNDERGROUND SERVICES SHOULD BE VERIFIED PRIOR TO EXCAVATION. UTILITY LOCATES ARE REQUIRED PRIOR TO ANY EXCAVATION ACTIVITY THE R



	Tel: 1-800-3
SUBSURFACE UTILITY ENGINEERING HYDRO EXCAVATION & CCTV	Fax:1-866-5
CONCRETE SCANNING	www.multiV
	325 Matheson
NEAR-SURFACE GEOPHYSICS	Mississauga, O

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1-866-571-5946	WARDEN AVE & KENNEDY RD
v.multiVIEW.ca itheson Blvd_East	MARKHAM, ON
auga, ON, L4Z1X8	

Date:

2021-08-13

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 Engineering work was performed according to the scope of work in the contract, the industry best practices and ASCI 38-02 Standard. The QL-B depiction accuracy is governed by the geophysical tool limitations and site conditions, as detailed in multiVIEW's Terms and Conditions in the last sheet of the attached composite drawing.

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Manhole	Bell/Rogers Ped	Catch Basin
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Water Valve	Hydro Pole	
		*
Traffic Camera	Hand Well	Transformer
(TC)	(HW)	$ \nabla $
Gas Valve	Trafficlight Pole	Fire Hydrant
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SUBSURFACE UTILITY ENGINEERING HYDRO EXCAVATION & CCTV CONCRETE SCANNING UTILITY LOCATES NEAR-SURFACE GEOPHYSICS

		Project No.:	Date:	Surveyed/Drawn By:	Appr:
THE LOCATION OF UNDERGROUND SERVICES SHOULD BE VERIFIED PRIOR TO EXCAVATION. UTILITY LOCATES ARE REQUIRED PRIOR TO ANY EXCAVATION ACTIVITY	46726	2021-08-13	EW/RF	YC	
	For: THE R	EGIONAL MUN	ICIPALITY OF YOI	RK	
	Tel: 1-800-363-3116 Fax:1-866-571-5946	Site: WARD	EN AVE & KEN	NEDY RD	

WARDEN AVE & KENNEDY RD MARKHAM, ON

Appr: The engineering stamp on this drawing is to confirm that the Subsurface Utility to confirm that the Subsurface Utility Engineering work was performed according to the scope of work in the contract, the industry best practices and ASCI 38-02 Standard. The QL-B depiction accuracy is governed by the geophysical tool limitations and site conditions, as detailed in multiVIEW's Terms and Conditions in the last sheet of the attached composite drawing.

-PROJECT BOUNDARIES

SUE UTILITY CODES \_\_\_\_W \_\_\_\_\_TV\_\_\_ Water (QL-D) TV (QL-D) Hydro Watermain \_\_\_\_\_ Gas (QL-D) Electrical \_\_<u>\_BT</u>\_\_ \_\_\_\_BT <u>\_\_\_\_ZAYD</u> Bell (QL-D) Streetlight Zayo (QL-D) \_\_<u>\_STM</u>\_ \_\_<u>RFD</u>\_ \_\_\_\_BFO RFO (QL-D) Bell FO Trafficlight Storm (QL-D) \_\_\_\_\_ Rogers FO \_\_\_\_RFD \_\_<u>H\_\_</u>\_ Project Boundaries Storm Sewer Hydro (QL-D)

ALL UTILITIES DEPICTED ARE AT "QUALITY LEVEL B" UNLESS OTHERWISE NOTED

Quality Level B	SHEI	ET 30 c	of 64		DRAWING No: 47626-SUE- DWG
	Rev. No.	Drawn By	Checked By	Date	Revision
Quality Level C	-	-	-	-	-
Quality Level D					

## No records/utilities found in this area

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(SEE SHEET 3 MATCHLINE	32) E			
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W WatermainH G GasmainE BT BellSL	SHOULDER   MATCHLINK   MATCHLINK   (SEE SHEET)   SUE UTILITY CODES   Hydro   Hydro   Electrical   Gas (QL-D)   Streetlight	Image: Second state sta	vel B vel Cvel D	DRAWING No: 47626-SUE- DWG Revision
BFD Bell FOTL	Streetlight $ \frac{B}{B} = - Bell (QL-D)$ Trafficlight $ \frac{RFD}{B} = - RFO (QL-D)$	ZAYU Zayo (QL-D)		

ALL UTILITIES DEPICTED ARE AT "QUALITY LEVEL B" UNLESS OTHERWISE NOTED

## No records/utilities found in this area

Data presented herein is subject to conditions as listed on the final pa	o multiVIEW's terms and ge of the contract drawings.					
		Project No.:	Date:	Surveyed/Drawn By:	Appr:	The engineering
	THE LOCATION OF UNDERGROUND SERVICES SHOULD BE VERIFIED PRIOR TO EXCAVATION UTILITY	46726	2021-08-13	EW/RF	YC	to confirm that Engineering wor
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SUBSURFACE UTILITY ENGINEERING HYDRO EXCAVATION & CCTV CONCRETE SCANNING UTILITY LOCATES NEAR-SURFACE GEOPHYSICS	JBSURFACE UTILITY ENGINEERING HYDRO EXCAVATION & CCTV CONCRETE SCANNING UTILITY LOCATES NEAR-SURFACE GEOPHYSICS Tel: 1-800-363-3116 Fax:1-866-571-5946 www.multiVIEW.ca 325 Matheson Blvd East Mississauga, ON 1471X8		EN AVE & KEN HAM, ON	NEDY RD		limitations and in multiVIEW's 1 last sheet of drawing.

The engineering stamp on this drawing is o confirm that the Subsurface Utility ingineering work was performed according to the scope of work in the contract, the industry best practices and ASCI 38-02 standard. The QL-B depiction accuracy is overned by the geophysical tool mitations and site conditions, as detailed in multiVIEW's Terms and Conditions in the ast sheet of the attached composite rawing.

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## PROJECT BOUNDARIES

	SHE	ET 32 c	of 64		DRAWING No: 47626-SUE- DWG
	Rev. No.	Drawn By	Checked By	Date	Revision
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<u>SUE UT</u>	ILITY FEATURES	CODES
Manhole Water Valve M Traffic Camera C Gas Valve M	Bell/Rogers Ped	Catch Basin



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Tel: 1-800-363-3116 Site: Fax:1-866-571-5946 SUBSURFACE UTILITY ENGINEERING HYDRO EXCAVATION & CCTV CONCRETE SCANNING UTILITY LOCATES NEAR-SURFACE GEOPHYSICS www.multiVIEW.ca 325 Matheson Blvd East Mississauga, ON, L4Z1X8

Project No.: Date: THE LOCATION OF UNDERGROUND SERVICES SHOULD BE VERIFIED PRIOR TO EXCAVATION. UTILITY LOCATES ARE REQUIRED PRIOR TO ANY EXCAVATION ACTIVITY 46726 2021-08-13 EW/RF THE REGIONAL MUNICIPALITY OF YORK

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WARDEN AVE & KENNEDY RD MARKHAM, ON

Surveyed/Drawn By: Appr: The engineering stamp on this drawing is to confirm that the Subsurface Utility Engineering work was performed according to the scope of work in the contract, the industry best practices and ASCI 38-02 Standard. The QL-B depiction accuracy is governed by the geophysical tool limitations and site conditions, as detailed in multiVIEW's Terms and Conditions in the last sheet of the attached composite drawing.

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	SUE UTILITY FEATURES	CODES	
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conditions as listed on the fin	hal page of the contract drawings.	Project No Date: Suprovod/Drown Dur	Appri The opgingering stemp on this drawing is
	THE LOCATION OF UNDERGROUND	46726 2021-08-13 EW//DE	to confirm that the Subsurface Utility
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Insight, not hindsight	ANY EXCAVATION ACTIVITY	THE REGIONAL MUNICIPALITY OF YORK	industry best practices and ASCI 38-02 Standard. The QL-B depiction accuracy is
	Tel: 1-800-363-3116	Site:	governed by the geophysical tool
HYDRO EXCAVATION & CCTV CONCRETE SCANNING	Fax:1-866-571-5946 www.multiVIEW.ca	WARDEN AVE & KENNEDY RD	in multiVIEW's Terms and Conditions in the
UTILITY LOCATES NEAR-SURFACE GEOPHYSICS	325 Matheson Blvd East Mississauga, ON, L4Z1X8		last sheet of the attached composite drawing.



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THE LOCATION OF UNDERGROUND SERVICES SHOULD BE VERIFIED PRIOR TO EXCAVATION. UTILITY	46726 2021-08-13	EW/RF YC	to confirm that the Sub Engineering work was perfor to the scope of work in the	surface Utility rmed according
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SUBSURFACE LITH ITY ENGINEEDING Tel: 1-800-363-3116	Site:		limitations and site conditio	ns as detailed

SUBSURFACE UTILITY ENGINEERING HYDRO EXCAVATION & CCTV CONCRETE SCANNING UTILITY LOCATES NEAR-SURFACE GEOPHYSICS

Fax:1-866-571-5946 www.multiVIEW.ca WARDEN AVE & KENNEDY RD MARKHAM, ON 325 Matheson Blvd East Mississauga, ON, L4Z1X8

limitations and site conditions, as detailed in multiVIEW's Terms and Conditions in the last sheet of the attached composite drawing.



SUE UT	ILITY FEATURES	CODES
Manhole Water Valve S Traffic Camera C Gas Valve S C C C C C C C C C C C C C	Bell/Rogers Ped	Catch Basin

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	SHEI	ET 35 c	of 64		DRAWING No: 47626-SUE- DWG
	Rev. No.	Drawn By	Checked By	Date	Revision
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Quality Level D 					





	SUE UTILITY CODES										
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G	Gasmain	E	Electrical	<u>G</u>	Gas (QL-D)	<u>H(TR</u> ENCH)	Hydro Trench				
BT	Bell	SL	Streetlight	<u>BT</u>	Bell (QL-D)	<u>ZAYD</u>	Zayo (QL-D)				
BFD	Bell FO	TL	Trafficlight	<u>_RFD</u>	RFO (QL-D)	<u>STM</u>	Storm (QL-D)				
RFD	Rogers FO	STM	Storm Sewer	<u>H</u> _	Hydro (QL-D)		<ul> <li>Project Bound</li> </ul>				
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	SHE	ET 37 c	of 64		DRAWING No: 47626-SUE- DWG
	Rev. No.	Drawn By	Checked By	Date	Revision
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Quality Level D					

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	SHEET 38 of 64				DRAWING No: 47626-SUE- DWG
	Rev. No.	Drawn By	Checked By	Date	Revision
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#### SUE UTILITY FEATURES CODES

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SHEET 39 of 64				DRAWING No: 47626-SUE- DWG
Rev. No.	Drawn By	Checked By	Date	Revision
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#### SUE UTILITY FEATURES CODES

Manhole Water Valve Comparison Traffic Camera Comparison Gas Valve Comparison Compa	Bell/Rogers Ped	Catch Basin
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SCALE 1:200

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	Tel: 1-800
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CONCRETE SCANNING	www.mii
UTILITY LOCATES	225 Mathos
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Tel: 1-800-363-3116	Site:
Fax:1-866-571-5946	WARDEN AVE & KENNEDY RD
www.multiVIEW.ca	MARKHAM ON
325 Matheson Blvd East	
lississauga, ON, L4Z1X8	

to confirm that the Subsurface Utility Engineering work was performed according to the scope of work in the contract, the industry best practices and ASCI 38-02 Standard. The QL-B depiction accuracy is governed by the geophysical tool limitations and site conditions, as detailed in multiVIEW's Terms and Conditions in the last sheet of the attached composite drawing.

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SHEET 40 of 64 DRAWING No: 47626-SUE- DWG Quality Level B Rev. No. Drawn By Checked By Date Revision Quality Level C ----\_ \_ \_ \_ \_ \_ \_ Quality Level D \_\_\_\_\_

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Data presented herein is subject to multiVIEW's terms and conditions as listed on the final page of the contract drawings.		
	Project No.:	
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SUBSURFACE UTILITY ENGINEERING HYDRO EXCAVATION & CCTV CONCRETE SCANNING UTILITY LOCATES	Tel: 1-800-363-3116	S
	Fax:1-866-571-5946	
	www.multiVIEW.ca	
	325 Matheson Blvd East	
NEAR-SURFACE GEOFTT SICS	Mississauga, ON, L4Z1X8	

THE LOCATION OF UNDERGROUND SERVICES SHOULD BE VERIFIED PRIOR TO EXCAVATION. UTILITY	46726	2021-08-13	EW/RF	Y			
LOCATES ARE REQUIRED PRIOR TO	For:						
ANY EXCAVATION ACTIVITY	THE REGIONAL MUNICIPALITY OF YORK						

Date:

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	WARDEN AVE & KENNEDY RD
	MARKHAM, ON

 

 Surveyed/Drawn By:
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 The engineering stamp on this drawing is to confirm that the Subsurface Utility

 Engineering work was performed according to the scope of work in the contract, the industry best practices and ASCI 38-02 Standard. The QL-B depiction accuracy is governed by the geophysical tool limitations and site conditions, as detailed in multiVIEW's Terms and Conditions in the last sheet of the attached composite drawing.

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Data presented herein is subject to multiVIEW's terms and conditions as listed on the final page of the contract drawings.	Project No.:         Date:           46726         2021-08-13           For:	Surveyed/Drawn By: Appr: EW/RF YC	The engineering stamp on this drawing is to confirm that the Subsurface Utility Engineering work was performed according to the scope of work in the contract, the industry best practices and ASCL 22.02	
Insight, not hindsight       ANY EXCAVATION ACTIVITY         SUBSURFACE UTILITY ENGINEERING       Tel: 1-800-363-3116         HYDRO EXCAVATION & CCTV       Fax:1-866-571-5946         CONCRETE SCANNING       WWW.multiVIEW.ca         UTILITY LOCATES       325 Matheson Blvd East	THE REGIONAL MUN Site: WARDEN AVE & KEN MARKHAM, ON	NICIPALITY OF YORK	industry best practices and ASCI 38-02 Standard. The QL-B depiction accuracy is governed by the geophysical tool limitations and site conditions, as detailed in multiVIEW's Terms and Conditions in the last sheet of the attached composite drawing	

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SUE UT	ILITY FEATURES	CODES
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## -PROJECT BOUNDARIES

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SHEET 42 of 64 DRAWING No: 47626-SUE- DWG Quality Level B Rev. No. | Drawn By | Checked By | Date Revision Quality Level C -----Quality Level D \_\_\_\_\_

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	Project No.:	Date:	Surveyed/Drawn By:	Appr:	The engineering stamp on this drawing is to confirm that the Subsurface Utility
THE LOCATION OF UNDERGROUND SERVICES SHOULD BE VERIFIED PRIOR TO EXCAVATION. UTILITY	46726	2021-08-13	EW/RF	YC	Engineering work was performed according to the scope of work in the contract, the
LOCATES ARE REQUIRED PRIOR TO Insight, not hindsight	' For: THE RE	EGIONAL MUN	IICIPALITY OF YO	RK	industry best practices and ASCI 38-02 Standard The OL-B deniction accuracy is
Tel: 1-800-363-3116	Site <sup>.</sup>				governed by the geophysical tool

SUBSURFACE UTILITY ENGINEERING HYDRO EXCAVATION & CCTV CONCRETE SCANNING UTILITY LOCATES NEAR-SURFACE GEOPHYSICS

Fax:1-866-571-5946 www.multiVIEW.ca 325 Matheson Blvd East Mississauga, ON, L4Z1X8

WARDEN AVE & KENNEDY RD MARKHAM, ON

limitations and site conditions, as detailed in multiVIEW's Terms and Conditions in the last sheet of the attached composite drawing.

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Manhole Water Valve S Traffic Camera C Gas Valve S

		SHEE	ET 43 c	of 64		DRAWING No: 47626-SUE- DWG	
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Data presented herein is subject to multiVIEW's terms and conditions as listed on the final page of the contract drawings.	TOUCHD_HETRENCHD		MATCHLINE (SEE SHEET 43)		
Project No.:     Date:     Surveyed/Drawn By:     Appr:       THE LOCATION OF UNDERGROUND     46726     2021-08-13     EW//DE     VC	The engineering stamp on this drawing is to confirm that the Subsurface Utility	Watermain	Hydro	TV TV (QL-D) Quality Level B	SHEET 44 of 64 DRAWING No: 47626-SUE- DWG
SERVICES SHOULD BE VERIFIED PRIOR TO EXCAVATION. UTILITY LOCATES ARE REQUIRED PRIOR TO ANY EXCAVATION ACTIVITY	Engineering work was performed according to the scope of work in the contract, the industry best practices and ASCL 38-02	Gasmain E	Electrical $-G$ - Gas (QL-D)	H(TRENCH) Hydro Trench Quality Level C	Rev. No.     Drawn By     Checked By     Date     Revision       -     -     -     -     -
Insight, not hindsight	Standard. The QL-B depiction accuracy is	BTSL	Streetlight <u>Bell</u> (QL-D)	ZAYD Zayo (QL-D)	
SUBSURFACE UTILITY ENGINEERING HYDRO EXCAVATION & CCTVTel: 1-800-363-3116 Fax:1-866-571-5946Site: WARDEN AVE & KENNEDY RD	limitations and site conditions, as detailed		TrafficlightRFD RFO (QL-D)	<u>STM</u> Storm (QL-D)	
CONCRETE SCANNING UTILITY LOCATES NEAR-SURFACE GEOPHYSICS WWw.multiVIEW.ca 325 Matheson Blvd East	last sheet of the attached composite	RFD Rogers FOSTM	Storm SewerH Hydro (QL-D)	Project Boundaries	
Mississauga, ON, L4Z1X8	drawing.		ALL UTILITIES DEPICTED ARE AT "QUALITY LEVEL B	B" UNLESS OTHERWISE NOTED	

#### SUE UTILITY FEATURES CODES

Manhole Water Valve Xraffic Camera	Bell/Rogers Ped Hydro Pole Hand Well	Catch Basin
© Gas Valve ⊠	Trafficlight Pole	Fire Hydrant

SCALE 1:200

![](_page_67_Picture_3.jpeg)

#### Data presented herein is subject to multiVIEW's terms and conditions as listed on the final page of the contract drawings.

![](_page_67_Picture_6.jpeg)

SUBSURFACE UTILITY ENGINEERING HYDRO EXCAVATION & CCTV CONCRETE SCANNING UTILITY LOCATES NEAR-SURFACE GEOPHYSICS

Tel: 1-800-363-3116 Site WARDEN AVE & KENNEDY RD Fax:1-866-571-5946 www.multiVIEW.ca MARKHAM, ON 325 Matheson Blvd East Mississauga, ON, L4Z1X8

Project No.:

THE LOCATION OF UNDERGROUND SERVICES SHOULD BE VERIFIED PRIOR TO EXCAVATION. UTILITY LOCATES ARE REQUIRED PRIOR TO ANY EXCAVATION ACTIVITY THE F

Date:

2021-08-13

THE REGIONAL MUNICIPALITY OF YORK

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 Surveyed/Drawn By:
 Appr:
 The engineering stamp on this drawing is to confirm that the Subsurface Utility

 Engineering work was performed according to the scope of work in the contract, the industry best practices and ASCI 38-02 Standard. The QL-B depiction accuracy is governed by the geophysical tool limitations and site conditions, as detailed in multiVIEW's Terms and Conditions in the last sheet of the attached composite drawing.

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	Tel: 1-80
SUBSURFACE UTILITY ENGINEERING HYDRO EXCAVATION & CCTV	Fax:1-86
CONCRETE SCANNING	www.mu
	325 Mathes
NEAR-SURFACE GEOPHYSICS	Mississauga

el: 1-800-363-3116 ax:1-866-571-5946 www.multiVIEW.ca Matheson Blvd East issauga, ON, L4Z1X8	Site: WARDEN AVE & KENNEDY RD MARKHAM, ON

Project No.:

46726

THE LOCATION OF UNDERGROUND SERVICES SHOULD BE VERIFIED PRIOR TO EXCAVATION. UTILITY LOCATES ARE REQUIRED PRIOR TO ANY EXCAVATION ACTIVITY

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2021-08-13

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ALL UTILITIES DEPICTED ARE AT "QUALITY LEVEL B" UNLESS OTHERWISE NOTED

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BELL MANHOLE

SHEET 46 of 64 Quality Level B Rev. No. Drawn By Checked By Quality Level C -\_ \_ \_ \_ \_ \_ \_ Quality Level D \_\_\_\_\_

DRAWING No: 47626-SUE- DWG Date Revision ---

#### SUE UTILITY FEATURES CODES

Manhole Water Valve S Traffic Camera C Gas Valve S S S S S S S S S S S S S	Bell/Rogers Ped	Catch Basin
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![](_page_69_Picture_4.jpeg)

SUBSURFACE UTILITY ENGINEERING HYDRO EXCAVATION & CCTV CONCRETE SCANNING UTILITY LOCATES NEAR-SURFACE GEOPHYSICS

Tel: 1-800-363-3116 Site: Fax:1-866-571-5946 WARDEN AVE & KENNEDY RD www.multiVIEW.ca MARKHAM, ON 325 Matheson Blvd East Mississauga, ON, L4Z1X8

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PROJECT BOUNDARIES

	SHEET	47 of 64		DRAWING No: 47626-SUE- DWG
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SUE UTILITY FEATURES CODES       Manhole     Bell/Rogers Ped	
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SHEET 48 of 64 DRAWING No: 47626-SUE- DWG Quality Level B Rev. No. Drawn By Checked By Date Revision Quality Level C -----Quality Level D \_\_\_\_\_

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## PROJECT BOUNDARIES
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UTILITY LOCATES	325 Ma
NEAR-SURFACE GEOPHYSICS	Mississa

800-363-3116	Site:
866-571-5946	WARDEN AVE & KENNEDY RD
multiVIEW.ca	MARKHAM ON
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Project No.:

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Manhole Water Valve S Traffic Camera Traffic Camera	Bell/Rogers Ped	Catch Basin
Gas Valve	Trafficlight Pole	Fire Hydrant

SCALE 1:200

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Fax:	
www	CONCRETE SCANNING
325 Ma	UTILITY LOCATES
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: 1-800-363-3116 ::1-866-571-5946 /w.multiVIEW.ca latheson Blvd East	Site: WARDEN AVE & KENNEDY RD MARKHAM, ON
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Project No.:

46726

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S	SHEET 51 of 64				DRAWING No: 47626-SUE- DWG
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Manhole	Bell/Rogers Ped	Catch Basin
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Water Valve	Hydro Pole	Street Light Pole
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Traffic Camera	Hand Well	Transformer
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Gas Valve	Trafficlight Pole	Fire Hydrant
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SCALE 1:200



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HYDRO EXCAVATION & CCTV
CONCRETE SCANNING
UTILITY LOCATES
NEAR-SURFACE GEOPHYSICS

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	RFD    Rogers FO      STM      Storm Sewer      RFD      Rogers FO      Storm Sewer	(QL-D) Project Boundaries	
	ALL UTILITIES DEPICTED ARE AT "QUALITIES ARE AT "QUALITIE	TY LEVEL B" UNLESS OTHERWISE NOTED	

Manhole Water Valve Comparison Traffic Camera Comparison Gas Valve Comparison Compa	Bell/Rogers Ped Hydro Pole Hand Well Trafficlight Pole	Catch Basin
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SCALE 1:200

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SUBSURFACE UTILITY ENGINEERING HYDRO EXCAVATION & CCTV	Fax:1-866-
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NEAR-SURFACE GEOPHYSICS	Mississauga,

Tel: 1-800-363-3116	Site:
Fax:1-866-571-5946	WARDEN AVE & KENNEDY RD
www.multiVIEW.ca 5 Matheson Blvd East	MARKHAM, ON
sissauga, ON, L4Z1X8	

Project No.:

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Date:

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# PROJECT BOUNDARIES

SHEET 53 of 64 DRAWING No: 47626-SUE- DWG Quality Level B Rev. No. Drawn By Checked By Date Revision Quality Level C -----Quality Level D \_\_\_\_\_

Manhole Water Valve S Traffic Camera C Gas Valve S	Bell/Rogers Ped	Catch Basin
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HYDRO EXCAVATION & CCTV
CONCRETE SCANNING
UTILITY LOCATES
NEAR-SURFACE GEOPHYSICS

Site:
WARDEN AVE & KEN

Project No.:

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Surveyed/Drawn By: Appr: The engineering stamp on this drawing is to confirm that the Subsurface Utility

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Date:

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www.multiVIEW.ca	MARKHAM ON
325 Matheson Blvd East	
/lississauga, ON, L4Z1X8	

to confirm that the Subsurface Utility Engineering work was performed according to the scope of work in the contract, the industry best practices and ASCI 38-02 Standard. The QL-B depiction accuracy is governed by the geophysical tool limitations and site conditions, as detailed in multiVIEW's Terms and Conditions in the last sheet of the attached composite drawing.



# SUE UTILITY FEATURES CODES Catch Basin Manhole Bell/Rogers Ped $\bowtie$ Water Valve Hydro Pole Street Light Pole (HP) ÷Ż÷ Traffic Camera Hand Well Transformer Trafficlight Pole Fire Hydrant \_( )\_

		SHE	ET 55 c	DRAWING No: 47626-SUE- DWG		
		Rev. No.	Drawn By	Checked By	Date	Revision
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	Quality Level D					
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## Data presented herein is subject to multiVIEW's terms and conditions as listed on the final page of the contract drawings.



SUBSURFACE UTILITY ENGINEERING	Tel: 1-800-363-3116
HYDRO EXCAVATION & CCTV CONCRETE SCANNING	www.multiVIEW.ca
NEAR-SURFACE GEOPHYSICS	325 Matheson Blvd East Mississauga, ON, L4Z1X8

	Project No.:	Date:	Surveyed/Drawn By:	Ар
THE LOCATION OF UNDERGROUND SERVICES SHOULD BE VERIFIED PRIOR TO EXCAVATION UTILITY	46726	2021-08-13	EW/RF	Y
LOCATES ARE REQUIRED PRIOR TO ANY EXCAVATION ACTIVITY	For: THE R	EGIONAL MUN	ICIPALITY OF YOF	RK

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WARDEN AVE & KENNEDY RD MARKHAM, ON

Surveyed/Drawn By: Appr: The engineering stamp on this drawing is to confirm that the Subsurface Utility Engineering work was performed according to the scope of work in the contract, the industry best practices and ASCI 38-02 Standard. The QL-B depiction accuracy is governed by the geophysical tool limitations and site conditions, as detailed in multiVIEW's Terms and Conditions in the last sheet of the attached composite drawing.



				SUE UTILI	TY CODES		
W	Watermain	Н	Hydro	V	Water (QL-D)	<u></u>	TV (QL-D)
G	Gasmain	E	Electrical	<u>G</u> _	Gas (QL-D)	<u>H(TR</u> ENCH)	Hydro Trench
BT	Bell	SL	Streetlight	<u>BT</u>	Bell (QL-D)	<u>ZAYD</u>	Zayo (QL-D)
BFD	Bell FO	TL	Trafficlight	<u>RFD</u> _	RFO (QL-D)	<u>STM</u>	Storm (QL-D)
RFD	Rogers FO	STM	Storm Sewer	<u>H</u> _	Hydro (QL-D)		<ul> <li>Project Bounda</li> </ul>
			ALL UTILITI	ES DEPICTED ARE AT	"QUALITY LEVE	EL B" UNLESS OTHER'	WISE NOTED





• HP

ROAD SIGN

	SHEE	ET 58 c	of 64		DRAWING No: 47626-SUE- DWG					
	Rev. No.	Drawn By	Checked By	Date	Revision					
Quality Level C	-	-	-	-	-					
Quality Level D										



Tel: 1-800-363-3116	Site:
Fax:1-866-571-5946	WARDEN AVE & KENNEDY RD
www.multiVIEW.ca	MARKHAM ON
325 Matheson Blvd East	
Mississauga, ON, L4Z1X8	

Standard. The QL-B depiction accuracy is governed by the geophysical tool limitations and site conditions, as detailed in multiVIEW's Terms and Conditions in the last sheet of the attached composite drawing.

				SHE	ET 59 c	of 64		DRAWING No: 47626-SUE- DWG					
W	Watermain	H	Hydro		Water (QL-D)	<u>TV</u> _	TV (QL-D)	Quality Level B	Rev. No.	Drawn By	Checked By	Date	Revision
G	Gasmain	<u></u> Ł	Electrical	<u>_</u>	Gas (QL-D)	<u>H(TR</u> ENCH)	Hydro Trench	Quality Level C	-	-	-	-	-
BT	Bell	SL	Streetlight	<u>BT</u>	Bell (QL-D)	<u>ZAYD</u>	Zayo (QL-D)	Quality Level D 					
BFD	Bell FO	TL	Trafficlight	<u>RFD</u>	RFO (QL-D)	<u>_STM</u>	Storm (QL-D)						
RF 🛛	Rogers FO	STM	Storm Sewer	H	Hydro (QL-D)		Project Boundaries						
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All the available records are showing no Sewers infrastructure in this area

Data p condit	presented herein is subject ions as listed on the final pa	to multiVIEW's terms and age of the contract drawings.			NULDER	BOULDEN	DER		
			Project No.:	Date:	Surveyed/Drawn By:	Appr:	The engineeri		
		THE LOCATION OF UNDERGROUND SERVICES SHOULD BE VERIFIED PRIOR TO EXCAVATION UTILITY	46726	2021-08-13	EW/RF	YC	to confirm t Engineering w		
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SUBSURFACE UTILITY ENGINEERING HYDRO EXCAVATION & CCTV CONCRETE SCANNING UTILITY LOCATES NEAR-SURFACE GEOPHYSICS		Tel: 1-800-363-3116 Fax:1-866-571-5946 www.multiVIEW.ca 325 Matheson Blvd East Mississauga ON 1471X8	Site: WARDI MARKH	Site: WARDEN AVE & KENNEDY RD MARKHAM, ON					

325 Matheson Blvd East Mississauga, ON, L4Z1X8

ering stamp on this drawing is that the Subsurface Utility work was performed according e of work in the contract, the t practices and ASCI 38-02 e QL-B depiction accuracy is by the geophysical tool and site conditions, as detailed in multiVIEW's Terms and Conditions in the last sheet of the attached composite drawing.

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	W	Matormain	H	Hudro			TV		Quality Level R		SHEET 60	of 64		DRAWING No: 47626-SUE- D	DWG
	G	Gasmain	E		<u>_</u>	Gas (OL-D)	<u>H(TRE</u> NO		Quality Level D		Rev. No. Drawn By	/ Checked By	Date	Revision	
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		- Bell	OL	Streetlight	<u> </u>	Bell (QL-D)	STM	∠ayo (QL-D)							
		Bell FO		Trafficlight		RFO (QL-D)		Storm (QL-D)							
		Rogers FO	S     <sup>v</sup>	Storm Sewer				Project Boundaries	8						
				ALL UTILITIE	S DEPICTED ARE A		L R. ONLESS OTH	1ERVVISE NOTED							



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Tel: 1-80	
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225 Mothor	UTILITY LOCATES
	NEAR-SURFACE GEOPHYSICS
Mississauga	

el: 1-800-363-3116 ax:1-866-571-5946 www.multiVIEW.ca	Site: WARDEN AVE & KENNEDY RD
Matheson Blvd East ssauga, ON, L4Z1X8	MARKHAM, ON

Project No.:

46726

THE LOCATION OF UNDERGROUND SERVICES SHOULD BE VERIFIED PRIOR TO EXCAVATION. UTILITY LOCATES ARE REQUIRED PRIOR TO ANY EXCAVATION ACTIVITY

Date:

2021-08-13

THE REGIONAL MUNICIPALITY OF YORK

EW/RF

YC

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	(SEE SHEET 62) MATCHLINE		
	MATCHLINE Nos		
dH			
	W Watermain H G Gasmain E BT Bell SL BFD Ball FO	MATCHLINE (SEE SHEET 58) Hydro W Water ( ElectricalG Gas (Q StreetlightBT BEI (Q	DES         (QL-D)      V         HCTRENCH)       Hydro Trench         L-D)      ZAYD         Zayo (QL-D)         DI      STM         Storm (QL-D)
	RFD Rogers FOST	M Storm SewerH Hydro ( ALL UTILITIES DEPICTED ARE AT "QUALI"	(QL-D) Project Boundaries TY LEVEL B" UNLESS OTHERWISE NOTED



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		Rev. No.	Drawn By	Checked By	Date	Revision
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Manhole Water Valve Co Traffic Camera Co Gas Valve Co	Bell/Rogers Ped Hydro Pole (+) Hand Well (+) Trafficlight Pole (+)	Catch Basin
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SCALE 1:200

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SUBSURFACE UTILITY ENGINEERING HYDRO EXCAVATION & CCTV CONCRETE SCANNING UTILITY LOCATES NEAR-SURFACE GEOPHYSICS	Tel: 1-800-363-3116 Fax:1-866-571-5946 www.multiVIEW.ca 325 Matheson Blvd East Mississauga, ON, L4Z1X8	S

THE LOCATION OF UNDERGROUND SERVICES SHOULD BE VERIFIED PRIOR TO EXCAVATION UTILITY	46726	2021-08-13	EW/RF					
LOCATES ARE REQUIRED PRIOR TO ANY EXCAVATION ACTIVITY	For: THE REGIONAL MUNICIPALITY OF YORK							
Tel: 1-800-363-3116 Fax:1-866-571-5946	Site: WARD	EN AVE & KEN	NEDY RD					

MARKHAM, ON

Date:

Project No.:

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	SHEI	ET 62 c	of 64		DRAWING No: 47626-SUE- DWG
	Rev. No.	Drawn By	Checked By	Date	Revision
Quality Level C	-	-	-	-	-
Quality Level D					

SUE UTILITY	FEATURES	CODES

Manhole Water Valve Traffic Camera Gas Valve M	Bell/Rogers Ped	Catch Basin
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SCALE 1:200



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SUBSURFACE UTILITY ENGINEERING HYDRO EXCAVATION & CCTV CONCRETE SCANNING UTILITY LOCATES NEAR-SURFACE GEOPHYSICS

Tel: 1-800-363-3116 Site: Fax:1-866-571-5946 WARDEN AVE & KENNEDY RD www.multiVIEW.ca MARKHAM, ON 325 Matheson Blvd East Mississauga, ON, L4Z1X8

Project No.:

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<u> </u>		PT	MAICHLINE P SEE SHEET 61)	31						-				
	W	Watermain	Н	Hydro	<u> </u>	Water (QL-D)	TV	TV (QL-D)	Quality Level B	SHE Rev. No	ET 63 (	Of 64	Date	DRAWING No: 47626-SUE- DWG Revision
	G	Gasmain	E	Electrical	<u>G</u>	Gas (QL-D)	<u> </u>	Hydro Trench	Quality Level C	-	-	-	-	-
	<u></u> BT	Bell	SL	Streetlight	<u>BT</u>	Bell (QL-D)	<u>ZAYD</u>	Zayo (QL-D)	Quality Level D 					
	BF 🛛	Bell FO	TL	Trafficlight	<u>RFD</u>	RFO (QL-D)	<u>_STM</u>	Storm (QL-D)						
	RFD	Rogers FO	STM	Storm Sewer				Project Boundaries						
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### **Technical Limitations**

1. Throughout this schedule, "multiVIEW" is the corporate entity multiVIEW Locates Inc.

- 2. Pipe, cable, conduit, rebar, post-tension cables, anchors, containers, vaults, tanks and similar objects that are buried under the ground or embedded within a structure are referred to in multiVIEW's terms and conditions as Buried Assets
- 3. Subsurface conditions such as depth to bedrock, change in soil type, presence of karst, voids, contaminated soil or ground water, residual construction or industrial debris or buried waste are referred to in multiVIEW's terms and conditions as Buried Liabilities.
- 4. The Client acknowledges that the laws of fundamental physics apply and acknowledge that sensing instruments can not detect all Buried Assets and Buried Liabilities. Buried Assets and Buried Liabilities which are detectable by properly deployed and operated instruments are termed Locatable Buried Assets and Locatable Buried Liabilities. Buried Assets and Buried Assets and Buried Assets and Buried Assets and Unlocatable Buried Liabilities. multiVIEW follows industry best-practice procedures but is not responsible for determining the presence and location of Unlocatable Buried Assets or Unlocatable Buried Liabilities.
- 5. Instruments to locate Buried Assets use a variety of approaches to detect and infer the location of the Buried Assets. Standard pipe and cable locating instruments detect the magnetic fields associated with electrical current flowing in the Buried Asset. GPR (Ground Penetrating radar) techniques depend on the transmission of radio waves into the host material and detection of the Buried Assets. Sonding methods require insertion of a source of magnetic field into the pipe or conduit and detection of the
- magnetic field created by source at the surface of the Work Area to locate the sonde position. For the purposes of this estimate, Locatable Buried Assets are normally characterized as:
- a. metallic pipes, cables and conduits that are capable of carrying an electrical current and that can be physically accessed to allow an energizing current source to create an electrical current in the Buried Asset of sufficient magnitude as to be detectable by standard locating instruments;
- b. metallic pipes, cables and conduits that actively carry an identifiable electric current that is sufficiently large and has suitable frequency as to be detectable by standard locating instruments;
- c. metallic and non-metallic pipes, cables, conduits, rods, bars, wires, voids, and inclusions that represent a substantive electrical contrast to the host material and are embedded in a host material transparent to radio waves such that radio waves reflected from the feature are detectable by a GPR instrument;
- d. non-metallic pipes, cables and conduits (i.e. composed of plastic, concrete, asbestos, clay, etc.) which have continuous associated tracer wire capable of carrying an electric current and that can be physically accessed to allow an energizing current source to create an electrical current in the tracer wire of sufficient magnitude as to be detectable by standard cable locating instruments;
- e. non-metallic pipes, cables and conduits which have continuous associated tracer wire capable of carrying an electrical current of sufficient magnitude and suitable frequency as to be detectable by standard cable locating instruments;
- f. open pipe and conduits that can be accessed by a sonde and are sufficiently shallow to permit detectable magnetic fields to be sensed at the surface of the Work Area;

Examples of Unlocatable Buried Assets include, but are not limited to, the following:

- g. pipes, cables and conduits whose depth of burial is too great to create and/or overlain by or in proximity to metallic material which results in signal distortion thus preventing physically measurable signals at the surface or where burial material interferes with current generation and signal emissions;
- h. normally Locatable Buried Assets situated in, or emerging from, an area which is an Inaccessible Area;
- i. normally Locatable Buried Assets with a break or breaks to the electrical continuity of any metallic pipe, cable or tracer wire (i.e. segmented lengths, corroded connections, sections of plastic repair, etc.);
- j. non-metallic pipe, cable and conduits which do not have a continuous and/or accessible associated tracer wire;
- k. the host material is opaque to radio waves;
- I. Buried Assets that are normally characterized as Locatable become Unlocatable when either ambient interfering electromagnetic fields or the material surrounding and/or above the Buried Asset disrupt the energizing current or the normal operation of the sensing instrument.
- 6. Instruments used to locate Buried Liabilities use a variety of approaches to detect and infer the location of the Buried Liability. Magnetometers detect the distortion in the local magnetic field induced by the presence of some types of Buried Liabilities. GPR (Ground Penetrating radar) techniques depend on the transmission of radio waves into the host material and detection of waves reflected back from the Buried Liability. In some cases the lack of reflected GPR signal can be a Buried Liability indicator. Electromagnetic induction methods use electromagnetic induction to induce current flow in the subsurface and detect the resulting magnetic fields that are associated with these induced currents to identify Buried Liabilities. Electrical resistivity measurements use direct connect to pass current through host material and map out distortions in the current flow to indicate changes in the subsurface that may indicate the presence of Buried Liabilities. For the purposes of this estimate, Locatable Buried Liabilities are normally characterized as those features that will create a discernable change to the response of the measuring instrument and which differ in character from the background surrounding environment (that is, the features create an Anomalous Response) when industry best practices are followed.
- 7. The Client acknowledges that the laws of fundamental physics apply and that equipment is subject to measurement distortions that are site specific resulting in limited precision when determining positional coordinates. multiVIEW will use best-practice procedures but is not responsible for determining the location of Buried Assets or Buried Liabilities to an accuracy better that what is typical of normal locate instruments.
- 8. Determination of type composition, depth or size of the Buried Assets or Buried Liabilities is not constitute part of this service. Identification of the type (i.e. gas, electric, communications, etc) of a specific Buried Asset is not technically possible except by visual surface appurtenance or excavation and visual exposure of the Buried Asset. Inferences that may be drawn by correlation with records and as-built drawings may be offered but such inferences are provided on a best effort basis with no guarantee of correctness.
- 9. Client acknowledges the critical nature of having access to energize Buried Assets to enable locating and providing access (including provision of licensed plumbing, electrical or confined space entry personnel if required and which adhere to multiVIEW health and safety procedures) to any and all points necessary for the energization of the Buried Assets. multiVIEW accepts no responsibility for locating any Buried Asset for which access and/or appropriate workplace safety measures are not provided.
- Individual Locatable Buried Assets are deemed Unlocatable Buried Assets where there are numerous Buried Assets clustered together either vertically and/or horizontally ("Clustered Utilities") making identification of individual elements physically impossible. multiVIEW is not responsible for identifying the individual Buried Assets in such situations.
- 11. Non-metallic pipe and cable (i.e. fibre-optic systems, etc.) are Unlocatable Buried Assets for standard cable locating instruments unless either an unbroken tracer wire or continuous metallic sheathing surrounding such buried plant is easily accessible from the surface. The Client must provide direct and simple access to every traceable wire or continuous metallic sheathing. Otherwise, multiVIEW accepts neither liability nor responsibility for locating such features since they are deemed Unlocatable
- 12. Non-metallic pipe and conduits (i.e. plastic, concrete, asbestos, clay, etc.) under pressure (i.e. water, gas, forcemain systems, etc.) are Unlocatable Buried Assets for standard cable locating instruments unless an unbroken tracer wire is attached to the pipe and this tracer wire is easily accessible from the surface. The Client must provide direct and simple access to every traceable wire.
- 13. Non-pressurized, non-metallic (i.e. plastic, concrete, asbestos, clay, etc.) conduits or pipe (i.e. sewers, drains, empty ducts, etc.) are Unlocatable Buried Assets unless a transmitting sonde can be inserted throughout the full length of the pipe or conduit. It is the responsibility of the Client to identify and provide direct access (including provision of licensed plumbing, electrical or confined space entry personnel if required) to any and all access points for such lines. multiVIEW accepts no responsibility for locating such lines where the Client does not provide access and/or appropriate workplace safety measures.

14. Any Buried Asset incapable of generating a reflected radar wave detectable by a GPR instrument is an Unlocatable Buried Assets.

- 15. All or part of a Work Area is defined as an Inaccessible Area when inaccessible for surveying Inaccessible Areas include the following: those covered by a structure or object (i.e. buildings, vehicles, debris, stockpiled snow, building materials, etc.); those covered by open water; those covered by woods, vegetation, or snow too thick to permit easy walking; those where the surface terrain slopes steeper than 1:2; those covered by snow; and, those where the safety of the operator is jeopardized (i.e. unstable footing, environmental hazards, uncontrolled roads, etc.). The final decision for defining an area as an Inaccessible Area rests with the multiVIEW Health & Safety Officer
- 16. Utility data depicted on QL-D CAD lines are derived via utility owners record data and shown only for reference.



JBSURFACE UTILITY ENGINEERING

HYDRO EXCAVATION & CCTV CONCRETE SCANNING

UTILITY LOCATES

NEAR-SURFACE GEOPHYSICS

THE LOCATION OF UNDERGROUND SERVICES SHOULD BE VERIFIED PRIOR TO EXCAVATION. UTILITY LOCATES ARE REQUIRED PRIOR TO ANY EXCAVATION ACTIVITY	Project No.:	Date:	Surveyed/Drawn By:	Checked:
	46726	2021-08-13	EW/RF	YC
	For: THE REGIONAL MUNICIPALITY OF YORK			
Tel: 1-800-363-3116 Fax:1-866-571-5946 www.multiVIEW.ca 325 Matheson Blvd East Mississauga, ON, L4Z1X8	Site: WARDE TERMS	EN AVE & KENN & CONDITION	IEDY RD, MARKH S	AM, ON

### Liability Limitations

- records, documents, and reports.
- damages for personal injury including death, or for property damage or liability caused to or from any Buried Asset or Buried Liability, within the Work Area.
- responsibility for any damage to plant, or any third party, caused by locating signals. Technical information about locating signals is available from multiVIEW upon request.
- 4. multiVIEW is not liable for damages resulting from physical exposure of any Buried Assets or Buried Liability by the Client, its representatives, their sub-contractors or any other person or corporation.
- construction of subsequent infrastructure.
- 6. multiVIEW accepts no responsibility and is not liable for damages suffered by any third party as a result of decisions or actions based on the performance of the statement of work by multiVIEW.
- 7. multiVIEW accepts no responsibility and is not liable for conduit blockage, or restoration of the site to pre-survey conditions, as a result of survey practices needed to fulfill the objectives of the Service provided.
- that scope of work can be adjusted to address Client requirement changes. Documents and maps provided by multiVIEW are the definitive means legally defining the extent of the Work Area investigated.
- 9. multiVIEW accepts no responsibility for locating Buried Assets or Buried Liabilities outside the limit of the Work Area or in the Inaccessible Areas.
- 10.Except as written in this contract, multiVIEW disclaims any and all promises, representations, warranties and covenants, express, implied, statutory or otherwise.
- cause or origin of such loss, injury, death or damage including, without limitation, loss, injury, death or damage attributable to the negligence of multiVIEW, its employees and agents in the performance or non-performance of the Service.
- beyond its control, including the untimely performance or non-performance by the Client of its obligations.

1. azLocation and mapping services, marks, reports and results provided by multiVIEW cannot substitute as a legally defined Buried Asset location in jurisdiction where government regulation dictates that the Buried Asset owner is solely responsible for identifying and locating their own Buried Assets. In cases where multiVIEW is legally authorized to act on behalf of the Buried Asset owner to locate the owner's Buried Assets, any results provided by multiVIEW will clearly identify that the Buried Asset location is legally authorized on all

2. multiVIEW's markings of Buried Asset or Buried Liability locations are provided as information to be input into the Client's decision making process and the provision of this information does not relieve the Client, or any other person, party, or corporation, from liability for

3. Cables carrying DC voltages and/or small diameter cables (i.e. fire alarm or security systems, remote signal cables, inaccessible tracer wire, perfectly balanced AC cables, etc.) can only be detected by methods which create electrical currents and signals in the cables. Where a sensitive or dangerous connection is involved, the Client must provide qualified personnel to isolate and enable direct access to these systems. The Client is responsible for defining the impact of locating signals on sensitive electronics. multiVIEW accepts no

5. multiVIEW will not accept any liability regarding inaccurate estimates of utility depth secured only by electronic means since multiVIEW recommends exposure of any such issues by vacuum excavating if any such depth information is critical to the design, engineering or

8. The completeness of work carried out by multiVIEW is based on information provided by the Client at or prior to the earlier of the time of issuance of this Estimate. If the scope work or size and/or extent of the Work Area changes, a signed Change Order must be issued so

11.multiVIEW shall not be liable for any amount in excess of the fees paid by the Client to multiVIEW for the work described in this estimate on account of any loss, injury, death, or damage whether resulting directly or indirectly to a person or property irrespective of the

12.In any action, claim, loss or damage arising out of the work for which this estimate is provided, the Client agrees that multiVIEW Locates Inc.'s liability will be 'several' and not 'joint and several' and the Client may only claim payment from multiVIEW Locates Inc of multiVIEW Locates Inc.'s proportionate share of the total liability based on degree of fault. Any action against multiVIEW Locates Inc must be commenced on or before the date which is the earlier of: i) eighteen months from the date on which the work in this estimate is completed and, ii) the date by which an action must be commenced under any applicable legislation other than limitation legislation. In no event shall multiVIEW Locates Inc be liable to the Client whether the claim be in tort, contract or otherwise, for an amount in excess of the fees paid by the Company for the services work provided. In no event shall multiVIEW Locates Inc be liable to the Client, whether a claim be in tort, contract or otherwise for any consequential, indirect, lost profit or similar damages, or failure to realize expected savings. multiVIEW Locates Inc will use all reasonable efforts to complete within any agreed upon timeframe the performance of the services described herein; however, multiVIEW Locates Inc shall not be liable for failures or delays in performance that arise from causes

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