

ISSUE 32 | Spring/Summer 2022

Ear to the

ground



The Training Issue

Natural Gas Sewer Safety Inspections

Natural gas pipelines installed using trenchless practices may have inadvertently penetrated sewer service lines.

Using motorized or water-jetting equipment to clear the sewer line can damage a natural gas line resulting in a gas leak, fire or explosion.

Before clearing a blocked sewer beyond the outside walls of a building, take the necessary precautions to protect yourself and others.



**Always call
Ontario One Call
at 1-800-400-2255
to request a free
Natural Gas Sewer
Safety Inspection.**

**Enbridge Gas
Damage Prevention Department
1-866-922-3622
enbridgegas.com/sewersafety**



Olameter

Damage Prevention Services



- Underground Utility Locating
- Pole Inspection & Audits
- Damage Investigation
- Utility Asset Mapping
- Leak Detection (Gas & Water)
- System Route Patrol



Tel: 800-903-7003 | Fax: 877-864-2831 | www.olameter.com | info@olameter.com *Olameter*

We Manage & Mitigate Utility Risk

T2ue.com | Info@T2ue.com | 855-222-8283

Our professionals provide a full range of services to investigate, depict and manage utilities.

Subsurface Utility Engineering

- Utility mapping investigations
- 3D mapping & modeling
- Multi-Channel GPR (MCGPR)
- Utility locates & test holes

Utility Coordination

- Utility conflict resolution
- Utility relocation management

CCTV Investigation

- NASSCO standards
- Mainline & lateral inspections
- Chamber investigations



**24/7 EMERGENCY
SERVICES**

GTA BARRIE HAMILTON LONDON

PGC offers Hydrovac and Flusher Truck services. We have multiple locations throughout Ontario. We offer state of the art equipment and hard working well trained crews. Our services include Excavations to distances up to 121.92 meters (400 feet).

- Excavation
- Sewer Flushing
- Culvert Cleaning
- Portable Debris Bin
- Remote Hose Excavation
- Cleaning & Thawing of Conduit
- Daylighting
- Trenching
- Hi-Rail Service
- Street Flushing
- Water Delivery

905-900-0010

www.pgcservices.ca





www.webercontractingltd.com

Call: 519-327-8888

UNDERGROUND UTILITY CONTRACTING

SERVING SOUTHWESTERN ONTARIO

HYDRO-EXCAVATION SYSTEM

24
HOUR
EMERGENCY
SERVICES



24 HOUR CONTACT:
DARROLL KONINGS 519-741-7806
JARRETT WEBER 519-503-0089



At AVERTEX we strive to be the most **TRUSTED** and **CAPABLE** company in the underground utility construction industry. You can be assured that the job will be done right regardless of what it takes!

SECTORS

- Electrical Utilities
- Railroad Utilities
- Renewable Energy
- Telecommunications
- Water & Sewer
- Specialty Services:
 - Rock Boring & Trenching
 - AXIS Guided Boring
 - Pipe Bursting & Ramming



AVERTEX.ca

1.888.837.3030

284612 ONTARIO LTD. O/A

BOB ROBINSON & SON
CONSTRUCTION

905-384-9884

www.bobrobinsonconstruction.com



CCTV Pipe & Manhole
Inspections - PACP, MACP,
LACP V7 Certified

Sewer Safety Inspections

PVC Pipe Air Pressure
Testing

Hydro Excavation
& Vacuum Services

Sewer Flushing & Cleaning

Excavating & Grading

MOE Licensed De-Watering & Recycling Facility
for Vacuum Trucks

OFFICE:
9687 BIGGAR ROAD
PORT ROBINSON, ONTARIO
L0S 1K0

DE-WATERING & RECYCLING FACILITY:
1658 ALLANPORT ROAD
THOROLD, ONTARIO
L0S 1A0

Contents

features

7 President's Message

By Doug Lapp
President & CEO, ORCGA

8 Damage Prevention Technician Training Program

By Dave Wulff, Senior DPT
Instructor

10 The Safe Excavation Training Program

By The Ontario Regional Common Ground Alliance

15 ORCGA Tailboard Talks

By The Ontario Regional Common Ground Alliance

18 Index to Advertisers



ORCGA

Editor-in-Chief
Jennifer Parent

Manager Growth, Councils and Membership Services
ORCGA

OFFICE

Ontario Regional
Common Ground Alliance
545 North Rivermede Road
Unit 102
Vaughan, ON L4K 4H1
Toll Free: 866.446.4493
Local: 905.532.9836
Web: www.orcga.com

NAYLOR

Account Manager
Bryan Metcalfe

Editor

Christa Campbell

Project & Sales Manager
Angela McDougall

Marketing Account Specialist
Kiana Gonzales

Advertising Sales Representatives

Maria Antonation, Jason Currie,
David S. Evans, Brian Hoover,
Trevor Perrault, Megan Stanley

Senior Project Administrator

Alana Place

Layout & Design

Pankaj Kumar Bharti

NAYLOR
ASSOCIATION SOLUTIONS

1200 Portage Avenue, Suite 200
Winnipeg, MB R3G 0T5
Toll Free: 1.800.665.2456
Tel: 204.947.0222
Fax: 204.949.9092
Web: www.naylor.com

The Ontario Regional Common Ground Alliance (ORCGA) is an organization promoting efficient and effective damage prevention for Ontario's vital underground infrastructure. Through a unified approach and stakeholder consensus, ORCGA fulfills its motto of "Working Together to Build a Safer Ontario."

©2022 Copyright by the ORCGA.

All rights reserved. The views expressed in this magazine do not necessarily reflect those of the publisher or the ORCGA.

The contents of this publication may not be reproduced by any means, in whole or in part, without the prior consent of the Alliance.

PUBLISHED MARCH 2022/
RGC-B0122/2681

Canadian Publications Mail
Agreement #40064978

Postage Paid at Winnipeg

COVER CREDIT:
BLACK JACK/SHUTTERSTOCK.COM

PLATINUM SPONSOR



GOLD SPONSORS



SILVER SPONSORS



BRONZE SPONSORS





THE IHSA ROOT CAUSE ANALYSIS REPORT: UNDERGROUND UTILITY STRIKES

By Doug Lapp, President & CEO, ORCGA

It is not until we lose vital utility services that we realize how impactful and crucial underground infrastructure is to our community and realize the potential harm to workplace safety, the wellbeing of workers, infrastructure, and the community.

In June of 2021, industry stakeholders comprised of Labour, Management and Industry System Partners had a unique opportunity to take positive steps to reduce the frequency and severity of underground strikes. The IHSA initiated a utility strike Root Cause Analysis and evaluation workshop.

The workshop utilized a “by the industry, for the industry” approach ensuring an open, transparent, and collaborative process involving peer-recognized industry/system experts.

Using the “Fishbone” Diagram method, the stakeholders determined the contributing factors in underground utility strikes, which fell into these categories: People, Processes, Tools and Machines, Measures, Environment, Culture.

The workshop members then, through a voting process, created a priority Top 10 list of the primary causal factors. Only Labour and Management representatives were allowed to vote.

After much analysis, the workshop identified the following key industry systemic weaknesses:

1. Lack of Quality Procedures
2. Lack of Clear and Standardized Locates
3. Lack of Education (Reading Locates)
4. Lack of Accountability

5. Lack of Health and Safety Management Systems and Workplace Safety Culture
IHSA summarized the following recommendations to address the systemic weaknesses:

1. Identify best practice guideline for planning and working in the vicinity of underground utilities
 - Including roles and responsibilities to promote accountability among employers, supervisors, and workers as well as Ontario One Call, utility owners and municipalities.
2. Review and promote standardized and clear utility locate ground markings and documentation
 - Including utilization of a digital portal to access locates, digitized locate forms and clearer icons.
3. Develop and provide education on reading locates
 - Including required training to ensure workers and supervisors (i.e. supervisors) have the knowledge to determine where identified underground utilities are located accurately.
4. Review and enhance practices, procedures and regulations to foster accountability
 - Including policies, procedures, and regulations relating to the completion and review of locates prior to excavating and the overall planning and execution of work in the vicinity of underground utilities.
5. Develop a framework to improve organization workplace safety culture
 - Including procedures to assess and improve leading and lagging indicators to improve workplace safety culture at all levels of the organization, promote management buy-in on developing and enforcing safe work practices, and reward and recognition programs.

The IHSA will be releasing its full report in Q2, 2022 which will include a full listing of the solutions and controls from the identified Top 10 primary causal factors. Contact slaing@ihsa.ca for further details.

The ORCGA participated in this workshop and continues to work towards effectively eliminating damages to underground infrastructure through influential advocacy, meaningful education and impactful engagement, in part, through channels such as Ear to the Ground. For this reason, the ORCGA has dedicated this issue of Ear to the Ground to its new training initiatives:

Safe Excavation Training is based on the latest research and resources on excavation best practices, legislation and standards. It provides instruction on the fundamentals of compliance, planning and design, notification service, locating and marking, and excavation.

Damage Prevention Technician Training (DPT 100 and 200) is provided at various locations throughout the province and is focused on a combination of in-depth review of techniques used to locate all utility types, safety, map reading, report preparation, liabilities, industry practices, emerging technologies, etc. Training is also comprised of in-class and field work, interspersed with quizzes, and ending with a closed book exam.

ORCGA Tailboard Talks are based on the CCGA Excavation Best Practices and provide guidance for informal safety meetings that highlights safety topics related to the specific job, such as safe work practices and excavation workplace hazards.

The ORCGA would be interested in receiving your feedback on these articles and its training courses. Please email your comments to office@orcca.com.



DAMAGE PREVENTION TECHNICIAN TRAINING PROGRAM



By Dave Wulff, Senior DPT Instructor

The Ontario Regional Common Ground Alliance (ORCGA) first formed in 1997 and later registered as a formal chapter of the Common Ground Alliance in the US, in 2003.

On April 24, 2003, a construction backhoe at a site on Bloor Street West near Kipling Avenue in the west end of Toronto, ruptured a gas line that had not been properly marked. Gas escaped into the basement of the building and ignited.

The explosion levelled a strip mall, destroying three businesses and several homes and killed seven people.

This tragedy underscored the need for advanced training and the adoption of industry accepted excavation best practices in addition to educating locators so that they have a basic level of knowledge and skill base and are competent.

Locate Service Providers (LSPs) hire technicians to locate utilities in both the

private and public domains, each having internal training and processes that vary widely amongst firms.

Various stakeholder group such as excavators, utilities, regulator, the insurance industry and the public have an expectation that the locate information is reasonably accurate and that staff are trained and capable.

A subcommittee was struck and was comprised of 16 Subject Matter Experts from ORCGA's stakeholder groups,

DPT 100

This 40-hour (5 day) combined theory and technical training program will be of interest to existing utility locators, as well as those entering the locating business.

DPT 200

The DPT 200 course is an advanced 24-hour (3 day) combined theory and technical training program designed specifically for utility locators with a minimum of three years direct industry locating experience. In order to qualify for this course, applicants must supply a signed letter from their employer, on company letterhead confirming that they have the required practical locating experience. This accelerated program covers the same material as the DPT 100 but with a large portion of pre-work completed prior to class.

Module 1: Introduction

Module 2: Introduction to Locating

Module 3: Utility Locate Requests

Module 4: Utilities Infrastructure

Module 5: Safety

Module 6: Utility Prints and Records

Module 7: Locating Fundamentals

Module 8: Locating Techniques – Power

Module 9: Locating Techniques – Telecom

Module 10: Locating Techniques – Gas

Module 11: Locating Techniques – Water and Sewer

Module 12: Methods and Procedures

Module 13: Liabilities

Module 14: Alternative Emerging Locate Technologies

Module 15: CCGA Best Practices Review

representing a wide range of skills and experience. The initial aim in developing the Damage Prevention Technician (DPT) Training Program was to standardize the fundamentals. The primary focus was centered on LSPs, and then later included Private Locators.



The subcommittee focused first on core curriculum – what education is needed to reduce damages – followed by addressing those who had already been locating for years in the field. This meant creating two training streams for those new to the industry and for experienced locators.

DPT 100 and 200 course training is provided at various locations throughout the province and classes are typically held in the winter/spring to avoid impact on operations. The training is focused on a combination of in-depth review of techniques used to locate all utility types, safety, map reading, report preparation, liabilities, industry practices, emerging technologies, etc.

Training is also comprised of in-class and field work, interspersed with quizzes, and ending with a closed book exam with an 80% score to pass. This training was followed by the most important Observed Competency Assessment Tool which addresses proficiency and aptitude on the job.

For each category of certification sought, a comprehensive skill capability checklist is completed by an internal assessor and a manager/owner to confirm the applicants' complete knowledge and ability, as well as a successful

The DPT Program began in

2007

2200

students have been trained
as of December 31, 2021.

131

DPT classes have been held
since the start of the program.

650

Currently, there are
Active (certified) Damage Prevention
Technicians.

completion of a minimum of 6 months of satisfactory field experience in each category being applied for. This application is submitted and reviewed by the DPT Education and Training Committee, formerly the DPT Certification and Advisory Board.

If you have any questions or require more information, please contact Kim Sheppard kim@orcca.com or visit the ORCGA website at www.ORCGA.com.



THE SAFE EXCAVATION TRAINING PROGRAM

By The Ontario Regional Common Ground Alliance

The **ORCGA Board** of Directors and membership identified that there is a gap in available training for safe excavation around underground

infrastructure. The ORCGA Board of Directors set up a steering committee on how to address this gap and establish a training program. First, the IHSA facilitated the development of the

Project Charter including identifying the “Learning Outcomes”. Secondly, the committee identified that the Canadian Common Ground Alliance Underground Infrastructure Damage Prevention Best Practices manual is the best framework on which to build a new course and selected the topics that were most applicable and compatible to Ontario regulatory and safety agencies.

Facilitator Guide



Safe Excavation Practices



**DRIG
SAFE**

CURRICULUM

The Safe Excavation Training (SET) Program Course Curriculum is based on modules that follow the different chapters within the Best Practices.

The target audience for this program is the front-line workers, the labourers, the swampers and the machine operators. In addition, training also needs to occur for the front-line supervisors and managers on the core content. Beyond the core content, there is additional material that the Steering Committee felt was needed specifically for the front-line supervisors and managers.

COURSE MATERIALS

The course materials that have been developed for the SET Program contain three guides:

The Facilitator Guide contains step by step instructions for those that are leading training. The Facilitator Guide has the course content which follows the PowerPoint presentation and instructs the facilitator on tasks as they walk through the program, such as group questions, quizzes, etc.

The Participant Guide is given to anyone taking the program. The primary purpose of this guide is to give the

participants the written documentation of the training materials. Also, within are the Best Practices clause numbers for future reference in the field, post training. Lastly, there is a space for participants to jot down notes during training.

Virtual Instructor Led Training (VILT) Manual was developed to run SET program virtually and provides direction for the instructor how and when to utilize the common online platforms needed to run the course online.

QUIZZES AND FINAL TEST

Intermittent quizzing is a way to test the participant's material comprehension before the final test, like the method used in the Damage Prevention Technician Training Program (DPT).

There are two ways to test participants: If the SET Program is held in-person, the instructor can go through the quizzes and review the answers with everyone. The alternative is Mentimeter, an online polling tool where participants can access quizzes – and then provide the answers – through their smart phones.

The final test format is multiple choice or true or false questions and an open book format.

There is a general knowledge section, followed by scenario testing, and ending with general utility locate sheets where the participants have to find different things on the locate sheets such as the Excavation Date or Description of the Dig Area.

PROGRAM DELIVERY

Instructor Led Training (ILT) was originally believed to be the preferred method for in-class, in-person training for front-line workers, as opposed to self-paced online training.

Pricing models (to be finalized) are based on the following factors:

- ORCGA member vs non-member
- ORCGA instructor vs company instructor
- Rented facility vs company facility
- Number of participants

The Safe Excavation Training (SET) Program Course Curriculum is based on modules that follow the different chapters within the Best Practices.

Module 1: Compliance

Agencies and their jurisdictions
MoLTSD, TSSA, ESA, etc.

Module 2: Planning and Design

As-Built drawings, documentation

Module 3: Notification Service

Ontario One Call System
Ontario One Call – verification
Public vs Private locates
Notification limitations
Locate status (360 feedback)

Module 4: Locating and Marking

APWA Unified Colour Code
Ground markings
Requirements of a valid locate
Alternate Locate Agreements (ALA's)

Module 5: Excavation

Excavation risk scenarios
Excavation hazards & minimizing risks
Requesting public/private infrastructure locates
Pre-excavation site meetings
Purpose of locate forms
How to understand & read locate forms
Valid locate packages
Verification of locate vs request
Locate preservation
Excavation observer (swamper)

Excavation within the Tolerance Zone
Unmarked or unidentified infrastructure
Protecting exposed facilities
Damaging underground infrastructure
Survey infrastructure
Demolitions – isolation/disconnection
Protecting buried infrastructure during backfilling

Vacuum Excavation (Hydrovac)

Vacuum excavation competencies, hazards, safety
Tolerance Zone, frozen ground
Trenchless excavation competencies, hazards, safety
Trenchless excavation methods
Directional drilling

Additional Content for Supervisors/Managers

Cancelling, deferring altering locate requests
Significance of locate ticket notifications
Facility owners contact information
Projects with multiple users of single locate
Infrastructure owners failing to deliver timely locates

Virtual Instructor Led Training (VILT) is now the preferred method for training online not only due to pandemic restrictions, but for those companies who have staff located throughout the province, VILT assists in closing the distance gap.

Pricing models (to be finalized) are based on the following factors:

- ORCGA member vs non-member

- ORCGA instructor vs company instructor
- Number of participants

IHSA RESEARCH REPORT

Of note, the IHSA recently concluded a research report entitled the Root Cause Analysis of Underground Utility Strikes. The report found that the top casual

Cont'd on page 13

The Jim Douglas Award of Excellence in Damage Prevention



Jeremy Cook
R&B Construction Services



Drain-All



We will be there. 24/7.

Drain-All Ltd. is a family-owned environmental, industrial and plumbing solutions company. We provide services to industrial, commercial, utilities, residential, institutional and municipal customers in Ontario and Quebec.

We offer 24 hour emergency service.

(613) 739-1070 | 1(800) 265-3868

3385 HAWTHORNE ROAD, OTTAWA, ON K1G 4G2 | INFO@DRAINALL.COM [f](https://www.facebook.com/drainall) [i](https://www.instagram.com/drainall) [in](https://www.linkedin.com/company/drainall)



HESI provides expert excavation of underground utilities and precision potholing through the technology of hydro excavation

HESI provides TURN KEY project solutions including directional drilling

(T) 519-941-5115 ■ (F) 519-941-4249

(E) info@hoodexcavac.ca ■ (W) www.hoodexcavac.ca

SPRING GROVE

Safety First, Efficiency Always!

Hydro Excavation, Stone Slinger &
Horizontal Directional Drilling

Servicing the GTA & East

Operator
info@springgrove.ca

1-866-388-5588
springgrove.ca

M&G

Fencing Inc.



**COMMERCIAL
INDUSTRIAL
RESIDENTIAL**

**SALES, REPAIRS AND
INSTALLATION OF ALL MAKES
OF FENCES AND GUIDE RAILS**

(705) 983-4411

www.mgfencing.ca



**SAFETY
is our
Business**

826 Bruno St., Azilda

TESTIMONIALS

"It looks great, this is a fantastic idea" – TC Energy

"The program and formatting that they are going to do looks good" – Powell Contracting

"I have gone through the storyboard. I believe it is very well done" – Tbay Tel

"It's all good" – OSWCA

"Looks good from my perspective, no additional comments" – Enbridge Gas

"I think it was very good training" – Goldie-Mohr

...regarding the "How to read a locate" section.... "We need to thoroughly go through to understand what we are looking at – particularly the sketches"

"We need to emphasize – don't make assumptions!"

factors in underground utility strikes are valid and accurate locates, locates not present before excavation, ability to read locates, marking of locates, lack of review of locates, mapping of utilities, training workers, lack of knowledge.

Some recommendations coming out of this report are:

- Identify Best Practice guidelines for working in the vicinity of underground utilities
- Develop and provide education on reading locates
- Review and enhance practices to foster accountability

The SET Program addresses many of the root causes of underground utility strikes!

CITY OF TORONTO INITIATIVE

Finally, an initiative at the City of Toronto that began in 2020, due to an ever-growing concern over contractors repeatedly damaging high risk assets, such as natural gas and hydro lines, required a collective industry corrective action.

The City of Toronto is currently considering a requirement for contractors, such as Operators, Swampers/Labourers, Crew Leaders, and Supervisors to successfully complete the ORCGA Safe Excavator Training and to adhere to the CCGA Best Practices for excavation.



- Private Locating
- Ground Penetrating Radar
- Fault Finding
- Concrete Scanning
- Camera Inspections
- Contract Locating
- SUM/SUE

519.856.1409
 5270 Wellington, CR 27,
 Unit C. Rockwood, ON, N0B 2K0
 Email: info@dupc.ca www.dupc.ca

LineStar Utility Supply is your one stop shop for everything utility related! We carry the all new Vivax vLoc3-PRO RTK Utility Locator, with built-in Survey-Grade GNSS accuracy. One-hand locating and mapping. We also carry Centriforce Stokbord® Cable Covers for heavy duty cable protection. Contact us to schedule a virtual or onsite demo.

Karl Stoute karl@linestar.ca **1-416-557-9522**

WWW.LINESTAR.CA



EXCAVATOR OF THE YEAR AWARDS

ORCGA recognizes ongoing achievement in our industry through our Awards Program.

These awards recognize excavators with the best in-class safe digging practices. Excavator of the Year is determined by each contractor's individual damage rate. A damage rate is a calculation dependent on the volume of locates requests, measured against the number of digging related damages to underground infrastructure. Input from infrastructure owners is also used in the determination. To qualify, excavators must have a minimum of 500 locate requests to Ontario One Call in the previous year.

ELECTRIC



LANDSCAPE



WATER & SEWER



GAS



ROAD BUILDER



TELECOMMUNICATIONS



HOME BUILDER



MOST IMPROVED



ORCGA TAILBOARD Talks

By The Ontario Regional Common Ground Alliance



Excavation Within Tolerance Zone

CCGA Underground Infrastructure Damage Prevention Best Practices
Version 3.0 - 4-19

Best Practice Statement

When excavation is to take place within the specified Tolerance Zone, the excavator exercises such reasonable care as may be necessary for the protection of any underground facility in, or near, the excavation area.

Background

The Tolerance Zone is comprised of the width of 1 metre from the centreline of a located cable or conduit and 1 metre from either side of the outside edge of the underground facility.

Explain Risks & Factors

Facility records indicate approximate location, number of facilities and access points for buried facilities within a requested area.

The owner of a facility is identified by markings of the applicable APWA Uniform Colour Code at the time the facility is located, and are usually marked with paint, flags or stakes.

When located properly, facilities should be located within approximately 0.6 metres from either side of the facility markings.

Digging outside of the Tolerance Zone is allowed using mechanical equipment and must be done with appropriate care.

The consequences of striking buried infrastructure can be severe, including electric shock, ignition & fire or explosion, potentially causing injury or death.

Striking or digging up buried utilities can also lead to service interruptions of essential services including communications, water supply, heat and power.

If an underground utility is hit, excavation must stop immediately, and the affected utility must be notified. This includes both located and non-located utilities.

Identify Controls

Safe excavation practices shall be exercised when excavating within the Tolerance Zone.

Safe, prudent, non-invasive or non-aggressive excavation methods that manually expose a facility are considered "safe excavation practices".

Differing geologic conditions and weather-related factors must be taken into consideration when using types of excavation within the Tolerance Zone.

Excavation methods to consider, based on certain climate or geographical conditions, include hand digging when practical, vacuum excavation methods, pneumatic hand tools, other mechanical methods with the approval of the facility owner, or other technical methods that may be developed.

Demonstrate

Review the different facility markings in the excavation or "dig area".

Measure out and identify the Tolerance Zone for all the marked facilities.

Review the safe excavation practices to be used on site for excavation within the Tolerance Zone.



Worker safety should always be the number one priority as workers are often involved with different types of equipment and different work sites.

A Tailboard Talk can go by other names such as Toolbox Talk, Tailgate Meetings or Safety Briefings, but whatever the name they all focus on holding an informal safety meeting that highlights safety topics related to the specific job, such as safe work practices and workplace hazards.

Tailboard Talks are normally short in duration and are generally conducted at the job site prior to the commencement of a job or work shift.

DEVELOPMENT

The Tailboard Talks were developed from member and ORCGA Board of Directors input, as well as from the DIRT Report and its identification of root causes.

4 Tailboard Talks have been developed, with another 11 in progress. The release date for this training information is set for the beginning of the 2022 dig season.

FORMAT

The Tailboard Talks format states the Excavation Best Practice Statement and its clause number, as well as explaining the risks and factors and their controls.

Then there is a portion where the instructor can demonstrate the lesson.

On the back of each Tailboard Talk is a sign in sheet and room for comments which can be kept as a permanent record of material covered.

ADDING TO ORCGA MEMBERSHIP VALUE

The Tailboard Talks are being developed on behalf of our members and will be accessed through our Member-Only section of the ORCGA website.





Today's Contractor Working for a safer tomorrow

North Rock specializes in infrastructure, general contracting, and is a design/build project pioneer.



Tony DiPede, tony@northrockgroup.com
George DiPede, George@northrockgroup.com
Concord: 905-660-7481 • Barrie: 705-725-9065
www.northrockgroup.net



UTILITY CONTRACTORS ASSOCIATION OF ONTARIO

*The Accredited Contractor Association
representing the utility sector of the
construction industry in Ontario*

- Employee safety training
- Electrical safety ○ Construction safety
- Labour relations

“Proud member of ORCGA”

Contact:

Simon Clarke
Executive Director

416-527-0360
www.uca.on.ca

CORE d SCAN

CONCRETE SCANNING | UTILITY LOCATING | XRAY

Serving all of Ontario!



Your Best Choice in **DAMAGE PREVENTION!**



**CANADIAN CUTTING
AND CORING**

CTA 905.624.1414
TOLL FREE 800.665.0705
www.cancut.ca

Imperial

Canada Fuels Operations

Pipeline Emergency
1-800-372-9597



“Proud Member of the ORCGA”.



ORCGA 15th Annual Golf Tournament
The Club at Bond Head
Wednesday, June 15th, 2022
Green Fees: \$207.50 pp + HST
Foursome: \$830 + HST
Includes:

- 18 holes and Golf Cart
- Hot Breakfast
- Dinner
- On-course contests and raffles

Registration Opens April 4th
Sponsorship Opportunities are available
For more information contact rebecca@orcga.com

LOGOBOOM/SHUTTERSTOCK.COM

2021 ORCGA Member of the Year

Presented to



Eric Boere
Halton Region

INDEX TO ADVERTISERS

Avertex Utility Solutions Inc. 4 www.avertex.ca	Enbridge Gas Inc. Inside Front Cover www.enbridgegas.com	North Rock Group Ltd. 16 www.northrockgroup.net
Bob Robinson & Son Construction 4 www.bobrobinsonconstruction.com	Hood Excavac Services Inc. 12 https://www.hoodexcavac.ca	Oakville Enterprises Corporation Inside Back Cover oecorp.ca
Canadian Cutting & Coring 16 https://www.cancut.ca	Imperial Oil 16 www.imperialoil.ca	Olameter Inc. Inside Front Cover www.olameter.com
Down Under Pipe & Cable Locating 13 www.dupc.ca	Line Star Utility Supply Ontario Inc 13 www.linestar.ca	PGC Services 3 www.pgcservices.ca
Drain-All Ltd. 12 www.drainall.com	M & G Fencing Inc. 12 www.mgfencing.ca/mg/	Planview Utility Services Ltd. 18 www.planview.ca



PLANVIEW
Utility Services Ltd.

Lead
Innovate
Commit to Excellence

INSPECTIONS

- Construction Verification for Aerial and Underground utility installations
- Assets Condition Assessment
- Confined Space Audits
- COVID-19 Best Practice Inspections

UTILITY DESIGN & ENGINEERING

- Telecommunication Outside Plant Designs (FTTx)
- Transit Project Utility Coordination
- Structures Design
- ESA 22/04 Aerial/Pole Line Engineering
- Specialty Permits

SUBSURFACE UTILITY ENGINEERING

- SUE Quality Level A, B, C & D Services
- Test Pits
- Locate Coordination
- Utility Survey with CAD and GIS deliverables
- CCTV Inspections

GIS

- GIS-As-A-Service
- Spatial Analysis & Location Intelligence
- Damage Prevention Risk Analysis
- Mobile LIDAR
- MultiViewer Mobile GIS Viewer

Main: Suite 201 - 7270 Woodbine Ave.,
Office: Markham, ON L3R 4B9

317 Consortium Crt.,
London, ON N6E 2S8

Suite 208 - 62 Steacie Dr.,
Kanata, ON K2K 2A9

visit planview.ca
call (289) 800-7110

Roma Fence Limited 18 www.romafence.com	Spring Grove Hydro Excavation 12 www.springgrove.ca	T2 Utility Engineers 3 https://t2ue.com
Utility Contractors Association 16 www.uca.on.ca	Vivax Canada Outside Back Cover www.vivax-metrotech.com	Weber Contracting #7 Ltd. 4 www.webercontractingltd.com

**ROMA
FENCE**

416-798-7566
www.romafence.com

*Thank You
to the advertisers
who helped make this
publication possible!*



ACHIEVING LONG-TERM ASSET VALUE

Are you looking to gain more value from your assets? Our turnkey asset management solution enables you to do just that.

Our teams support the entire asset lifecycle from concept to implementation. From planning, engineering design, construction, GIS application services, asset inspection and field services, we provide the data you need to make the right decisions.

If you're looking to achieve long-term asset value, we want to hear from you!

Contact us at info@oecorp.ca.



RTK-Pro

Utility locating and high accuracy GNSS in one handheld instrument



GNSS Satellite Tracking

- GPS, GLONASS, Galileo, BeiDou



Cellular Connection

- Nano SIM tray
- 4G LTE connection
- Direct data storage to the cloud



Log data with press and tilt

- 2DRMS horizontal accuracy displayed in real time

vLoc3 RTK-Pro

- Fully-integrated RTK GNSS
- One centimeter accuracy
- Survey-grade GNSS accuracy
- Internal or cloud-based data locations
- Real-time locate accuracy confirmation

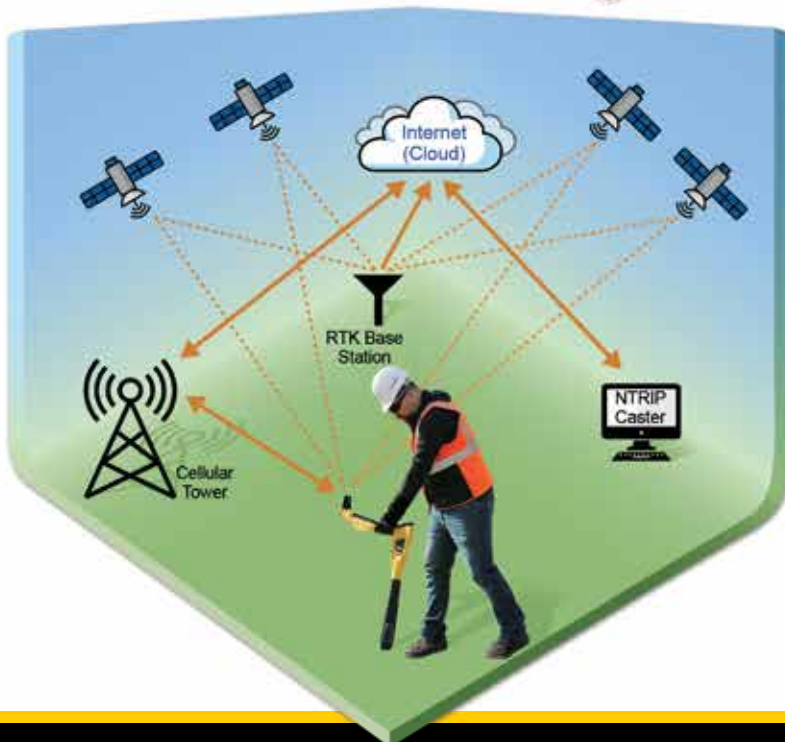
+1-289-846-3010

Call us for a no obligation on-site demonstration!

Compatible with: 5 and 10-Watt Transmitters



- Built-in AVO meter
- Optional transmitter-to-receiver radio link
- Lightweight - Only 7.15 lbs. / 3.24 kg with Li-ion battery
- AC/DC external power sources



VIVAX
METROTECH



41 Courtland Ave Unit 8, Vaughan, ON L4K 3T3, Canada

SalesCA@vxmt.com

www.vivax-metrotech.com