



PIPELINE SAFETY TRAINING



PROGRAM GUIDE

Overview

Pipeline Safety

Excavation Best Practices Checklist

Signs Of A Pipeline Release

What To Do If A Leak Occurs

Pipeline Emergency

Common Ground Alliance Best Practices

Pipelines In Our Community

Damage Prevention Programs

Pipeline Damage Reporting Law

2025

EMERGENCY CONTACT LIST

COMPANY	EMERGENCY NUMBER
AEP Generation Resources - Darby Generating Station	1-877-351-0486
Air Products, LLC	1-216-781-2817
American Municipal Power	1-877-603-2922
Antero Midstream Corporation	1-800-265-6503
Ascent Resources, LLC	1-740-260-7560
BP Pipelines (North America), Inc.	1-800-548-6482
Buckeye Partners, L.P.	1-800-331-4115
CenterPoint Energy	1-800-227-1376
Cleveland Cliffs	1-888-458-1465
Citgo Petroleum Corp.	1-800-471-9191
Columbia Gas of Ohio	1-800-344-4077
Consolidated Gas and Bright Energy	1-866-946-6600
Diversified Gas & Oil Corporation	1-877-711-1138
DTM Utica, LLC	1-800-363-9541
Eastern Gas Transmission and Storage	1-888-264-8240
Enbridge Gas Ohio	1-877-542-2630
Enbridge (U.S.) Inc. / Texas Eastern Transmission (Gas)	1-800-231-7794
Enbridge (U.S.) Inc. / Texas Eastern Transmission (Oil)	1-800-858-5253
Energy Transfer (Crude)	1-800-753-5531
Energy Transfer (NGL)	1-800-375-5702
Enterprise Products Operating LLC	1-888-883-6308
Equitrans Midstream	1-855-740-1092
Kimble Company	1-800-201-0005
Kinder Morgan's Utopia Pipeline System	1-800-265-6000
Lancaster Municipal Gas Dept.	1-740-687-6670
Linde	1-800-926-9620
Mid-Valley Pipeline	1-800-753-5531
MPLX - MarkWest Energy Partners Utica	1-855-878-4859
National Gas & Oil Cooperative / NGO Transmission, Inc.	1-800-255-6815
NEXUS Gas Transmission, LLC (Operated by Enbridge)	1-855-329-1781
North Coast Gas Transmission	1-888-497-5665
Ohio Gas Company	1-800-331-7396
or	1-419-636-3642
Ohio Valley Gas Corporation	1-877-853-5501
Panhandle Eastern Pipe Line	1-800-225-3913
Pembina Cochin LLC	1-800-360-4706
RH energytrans, LLC	1-800-805-1556
Richland Stryker Generation, LLC	1-877-246-5100
Rover Pipeline	1-800-225-3913
Shell Pipeline Company LP	1-800-922-3459
Southwestern Energy	1-877-879-0376
Suburban Natural Gas Company (in Lewis Center)	1-740-548-2450
Suburban Natural Gas Company (in Cygnet)	1-419-655-2345
Sunoco LLC	1-800-786-7440
Sunoco Pipeline	1-800-786-7440
Tait Electrical Generating Station, LLC	1-877-351-0486
Tallgrass / Rockies Express Pipeline	1-877-436-2253
Tennessee Gas Pipeline Company	1-800-231-2800
Texas Gas Transmission, LLC	1-800-626-1948
Toledo Refining Company, LLC	1-419-698-6600
Truck World	1-877-351-0486
UGI Energy Services	1-855-511-4942
Utility Pipeline	1-888-784-6160
Waterville Gas & Oil Company	1-419-878-4972
West Lorain Power	1-877-351-0486
Williams	1-855-945-5762

Note: The above numbers are for emergency situations. Additional pipeline operators may exist in your area.
 Visit the National Pipeline Mapping System at www.npms.phmsa.dot.gov for companies not listed above.

ONE-CALL SYSTEM	PHONE NUMBER
Ohio Utilities Protection Service	1-800-362-2764
Oil and Gas Underground Protection Service	1-800-925-0988
National One-Call Referral Number	1-888-258-0808
National One-Call Dialing Number	811

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Pipeline Purpose and Reliability

- Critical national infrastructure
- Over 2.7 million miles of pipeline provide 65% of our nation's energy
- 20 million barrels of liquid product used daily
- 21 trillion cubic feet of natural gas used annually

Safety Initiatives

- Pipeline location
 - Existing right-of-way (ROW)
- ROW encroachment prevention
 - No permanent structures, trees or deeply rooted plants
- Hazard awareness and prevention methods
- Pipeline maintenance activities
 - Cleaning and inspection of pipeline system

Leak Recognition and Response

- Sight, sound, smell – indicators vary depending on product
- Diesel engines – fluctuating RPMs
- Black, dark brown or clear liquids/dirt blowing into air/peculiar odors/dead insects around gas line/dead vegetation
- Rainbow sheen on the water/mud or water bubbling up/frozen area on ground/frozen area around gas meter
- Any sign, gut feeling or hunch should be respected and taken seriously
- Take appropriate safety actions ASAP

High Consequence Area (HCA) Regulation

- Defined by pipeline regulations 192 and 195
- Requires specialized communication and planning between responders and pipeline/gas personnel
- May necessitate detailed information from local response agencies to identify HCAs in area

One-Call

- One-Call centers are not responsible for marking lines
- Each state has different One-Call laws. Familiarize yourself with the state you are working in
- Not all states require facility owners to be members of a One-Call
- You may have to contact some facility owners on your own if they are not One-Call members
- In some states, homeowners must call before they dig just like professional excavators



**Know what's below.
Call before you dig.**

Our History

- Serving Ohio for 50+ Years
- Non-Fan-Profit
- Free Service
- Open 365 days a year
 - Call Center – 8am-6pm
 - Emergencies/RUE – 24/7
- Protection Service: OhioCall does not mark lines

Excavator Responsibilities

ORC 3781.25 (I)
DEFINITION OF AN EXCAVATION
"Excavation means the use of hand tools, powered equipment, or explosives to move earth, rocks, or other materials in order to penetrate or bore or drill into the earth..."
Excavator Manual Page 5

White Lining


It is necessary to be specific about your area of excavation when contacting Ohio Utilities Protection Service.
The description must meet one of the following criteria:
Pre-marking in White Excavator Manual Page 21



(I) "An excavator is NOT required to pre-mark the approximate location of an excavator as provided in division (D) of this section in any of the following situations:
(1) The utility can determine the precise location, direction, size, and length of the proposed excavation site by referring to the notification provided by the protection service.
(2) The excavator and the affected utility have had an on-site preconstruction meeting for the purpose of pre-marking the excavation site.
(3) The excavation involves replacing a pole that is within five feet of the location of an existing pole.
(4) Pre-marking by the excavator would clearly interfere with pedestrian or vehicular traffic control."

What is enforced?

Most sections of Ohio's damage prevention law will be enforced...



SB 378 will only determine whether or not a compliance failure of one of these sections has occurred
153.64; divisions (A) and (B) of 3781.26; sections 3781.27 and 3781.28 to 3781.32; Chapter 4913



How will the enforcement process work?

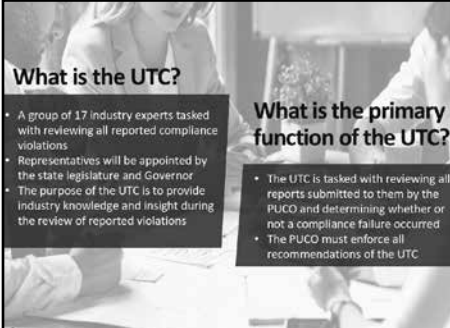
- Complaint driven process
- "Aggrieved party" may file request for inquiry with the PUCO within 90 days
- PUCO will notify the alleged responsible party and gather information
- PUCO will forward all information to the Underground Technical Committee (UTC)

What is the UTC?

- A group of 17 industry experts tasked with reviewing all reported compliance violations
- Representatives will be appointed by the state legislature and Governor
- The purpose of the UTC is to provide industry knowledge and insight during the review of reported violations

What is the primary function of the UTC?

- The UTC is tasked with reviewing all reports submitted to them by the PUCO and determining whether or not a compliance failure occurred
- The PUCO must enforce all recommendations of the UTC








1ST TIME VIOLATIONS – TRAINING/EDUCATION REQUIREMENT, FINE OF UP TO \$2,500 OR COMBINATION OF BOTH	2ND TIME VIOLATIONS – TRAINING/EDUCATION REQUIREMENT, FINE OF UP TO \$5,000 OR COMBINATION OF BOTH	*PERSISTENT NONCOMPLIANCE – PUCO MAY IMPOSE FINE OF UP TO \$10,000, IN ADDITION TO RECOMMENDATION OF UTC
----------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------

What are the fines/penalties for non-compliance?



- The aggrieved party or the alleged responsible party may file for reconsideration with the PUCO within 30 days
- If a reconsideration is filed, the PUCO will review the finding of the UTC and may hold a hearing
- PUCO will affirm, reject or modify finding

How will the enforcement process be funded?

All utilities, excavators, developers and designers who participate in the one-call system will pay an annual registration fee not to exceed \$50.00 to the PUCO

What happens to the monies collected as a result of the fines?

All fines collected will be deposited into the underground facilities protection fund and used solely to fund grants for underground utility damage prevention education awareness programs



Additional Resources

- Visit www.OHIO811.org for valuable resources
- Senate Bill 378
- FAQ's
- Enforcement Process Flow Chart



OHIO811 Contact Information

- Call 800-362-2764 or 811
- Mobile App - www.oups.org/oups-apps
- i-dig - www.oups.org/idig
- e-dig - www.oups.org/edig



EXCAVATOR RESPONSIBILITIES:

- Call Before You Dig - It's the Law!
- Wait the required time for the markings!
(state specific time – check your local One Call Law)
- Tolerance Zones – May vary by state and/or company!
- Respect the marks!
- Dig with care!

RISK CONSIDERATIONS

- Type/volume/pressure/location/geography of product
- Environmental factors – wind, fog, temperature, humidity
- Sight, sound, smell – indicators vary depending on product
- Black, dark brown or clear liquids/dirt blowing into air/peculiar odors/dead insects around gas line/dead vegetation
- Rainbow sheen on the water/mud or water bubbling up/frozen area on ground/frozen area around gas meter
- Other utility emergencies

PIPELINE MARKERS

The U.S. Department of Transportation (DOT) requires the use of signs to indicate the location of underground pipelines. Markers like these are located on road, railroad, and navigable waterway crossings. Markers are also posted along the pipeline right-of-way. Markers may not be located directly over the pipeline it marks.

The markers display:

- The product transported
- The name of the pipeline operator
- The operator's emergency number



- White Lining (Pre-marking)
 - One Call Facility Request
 - One Call Access
 - Locate Reference Number
-
- Separate Locate Request
 - Pre-excavation Meeting
 - Facility Relocations
 - One Call Reference Number at Site
 - Contact Names and Numbers
 - Positive Response
 - Facility Owner/Operator Failure to Respond
 - Locate Verification
 - Work Site Review with Company Personnel
 - Documentation of Marks
 - Facility Avoidance
 - Marking Preservation
 - Excavation Observer
 - Excavation Tolerance Zone
 - Excavation within the Tolerance Zone
 - Vacuum Excavation
 - Mismarked Facilities
 - Exposed Facility Protection
 - Locate Request Updates
 - Facility Damage Notification
 - Notification of Emergency Personnel
 - Emergency Coordination with Adjacent Facilities
 - Emergency Excavation
 - Backfilling
 - As-built Documentation
 - Trenchless Excavation
 - No Charge for Providing Underground Facility Locations
 - Federal and State Regulations



Signs Of A Pipeline Release

SIGHT*

- Liquid on the ground
- Rainbow sheen on water
- Dead vegetation in an otherwise green area
- Dirt blowing into the air
- White vapor cloud
- Frozen area on ground

*Signs vary based upon product

SMELL

- Odors such as gas or oil
- Natural gas is colorless and odorless
 - Unless Mercaptan has been added (*rotten egg odor*)

OTHER - NEAR PIPELINE OPERATIONS

- Burning eyes, nose or throat
- Nausea

SOUND

- A hissing or roaring sound

What To Do If A Leak Occurs

- Evacuate immediately upwind
- Eliminate ignition sources
- Advise others to stay away
- **CALL 911** and the pipeline company – number on warning marker
 - Call collect if necessary
- Make calls from safe distance – not “hot zone”
- Give details to pipeline operator:
 - Your name
 - Your phone number
 - Leak location
 - Product activity
 - Extent of damage
- DO NOT drive into leak or vapor cloud
- DO NOT make contact with liquid or vapor
- DO NOT operate pipeline valves (*unless directed by pipeline operator*):
 - Valve may be automatically shut by control center
 - Valve may have integrated shut-down device
 - Valve may be operated by qualified pipeline personnel only, unless specified otherwise
- Ignition sources may vary – a partial list includes:
 - Static electricity
 - Metal-to-metal contact
 - Pilot lights
 - Matches/smoking
 - Sparks from telephone
 - Electric switches
 - Electric motors
 - Overhead wires
 - Internal combustion engines
 - Garage door openers
 - Firearms
 - Photo equipment
 - Remote car alarms/door locks
 - High torque starters – diesel engines
 - Communication devices

Pipeline Emergency

Call Gas Control Or Pipeline Control Center

Use **Pipeline Emergency Response Planning**

Information Manual for contact information

Phone number on warning markers

Use state One-Call System, if applicable

Control Center Needs To Know

Your name & title in your organization

Call back phone number – primary, alternate

Establish a meeting place

Be very specific on the location (**use GPS**)

Provide City, County and State

Injuries, Deaths, Or Property Damage

Have any known injuries occurred?

Have any known deaths occurred?

Has any severe property damage occurred?

Traffic & Crowd Control

Secure leak site for reasonable distance

Work with company to determine safety zone

No traffic allowed through any hot zone

Move sightseers and media away

Eliminate ignition sources

Fire

Is the leak area on fire?

Has anything else caught on fire besides the leak?

Evacuations

Primary responsibility of emergency agency

Consult with pipeline/gas company

Fire Management

Natural Gas – DO NOT put out until supply stopped

Liquid Petroleum – water is NOT recommended; foam IS recommended

Use dry chemical, vaporizing liquids, carbon dioxide

Ignition Sources

Static electricity (*nylon windbreaker*)

Metal-to-metal contact

Pilot lights, matches & smoking, sparks from phone

Electric switches & motors

Overhead wires

Internal combustion engines

Garage door openers, car alarms & door locks

Firearms

Photo equipment

High torque starters – diesel engines

Communication devices – not intrinsically safe

In 1999, the Department of Transportation sponsored the Common Ground Study. The purpose of the Common Ground Study was to identify and validate existing best practices performed in connection with preventing damage to underground facilities. The collected best practices are intended to be shared among stakeholders involved with and dependent upon the safe and reliable operation, maintenance, construction, and protection of underground facilities. The best practices contain validated experiences gained that can be further examined and evaluated for possible consideration and incorporation into state and private stakeholder underground facility damage prevention programs.

The current Best Practices Field Manual is divided into nine chapters that provide a collection of current damage prevention best practices. The nine chapters include:

1. Planning & Design Best Practices
2. One Call Center Best Practices
3. Location & Marking Best Practices
4. Excavation Best Practices
5. Mapping Best Practices
6. Compliance Best Practices
7. Public Education Best Practices
8. Reporting & Evaluation Best Practices
9. Miscellaneous Practices

To view the latest version of the Best Practices please visit www.commongroundalliance.com



Pipelines In Our Community

According to National Transportation Safety Board statistics pipelines are the safest and most efficient means of transporting natural gas and petroleum products, which are used to supply roughly two-thirds of the energy we use. These pipelines transport trillions of cubic feet of natural gas and hundreds of billions of ton/miles of liquid petroleum products in the United States each year.

This system is comprised of three types of pipelines: transmission, distribution and gathering. The approximately 519,000 miles of transmission pipeline* transport products, including natural gas and petroleum products, across the country and to storage facilities. Compressor stations and pumping stations are located along transmission and gathering pipeline routes and help push these products through the line.

Approximately 2.2 million miles of distribution pipeline* is used to deliver natural gas to most homes and businesses through underground main and utility service lines. Onshore gathering lines are pipelines that transport gas from a current production operation facility to a transmission line or main. Production operations are piping and equipment used in production and preparation for transportation or delivery of hydrocarbon gas and/or liquids.

*mileage according to the Pipeline Hazardous Materials Safety Administration (PHMSA).



**Know what's below.
Call before you dig.**

Training Center

Supplemental training available for agencies and personnel that are unable to attend:

- Train as your schedule allows
- Download resources including pipeline operator specific information
 - Sponsoring pipeline operator contact information
 - Product(s) transported
- Receive Certificate of Completion

Visit <https://trainingcenter.pdigm.com/> to register for training



Damage Prevention Programs

Pursuant to 49 CFR Parts 192.614 (c)(2)(i) and 195.442 (c)(2)(i) pipeline operators must communicate their Damage Prevention Program's "existence and purpose" to the public in the vicinity of the pipeline and persons who normally engage in excavation activities in the area in which the pipeline is located.

State and federally regulated pipeline companies maintain Damage Prevention Programs. The purpose of which is to prevent damage to pipelines and facilities from excavation activities, such as digging, trenching, blasting, boring, tunneling, backfilling, or by any other digging activity.

Pipeline Markers

The U.S. Department of Transportation (DOT) requires the use of signs to indicate the location of underground pipelines. Markers like these are located on road, railroad, and navigable waterway crossings. Markers are also posted along the pipeline right-of-way.

The markers display:

- The material transported
- The name of the pipeline operator
- The operator's emergency number

MARKER INFORMATION

- Indicates area of pipeline operations
- May have multiple markers in single right-of-way
- May have multiple pipelines in single right-of-way
- DOES NOT show exact location
- DOES NOT indicate depth (*never assume pipeline depth*)
- DOES NOT indicate pipeline pressure



Call Before You Dig

Statistics indicate that damage from excavation related activities is a leading cause of pipeline accidents. If you are a homeowner, farmer, excavator, or developer, we need your help in preventing pipeline emergencies.

1. Call your state's One-Call center before excavation begins - regulatory mandate as state law requires.
2. Wait the required amount of time.
3. A trained technician will mark the location of the pipeline and other utilities (private lines are not marked).
4. Respect the marks.
5. Dig with care.

National One-Call Dialing Number:



Know what's below.
Call before you dig.

For More Details Visit: www.call811.com

American Public Works Association (APWA) Uniform Color Code

	WHITE - Proposed Excavation
	PINK - Temporary Survey Markings
	RED - Electric Power Lines, Cables, Conduit and Lighting Cables
	YELLOW - Gas, Oil, Steam, Petroleum or Gaseous Materials
	ORANGE - Communication, Alarm or Signal Lines, Cables or Conduit
	BLUE - Potable Water
	PURPLE - Reclaimed Water, Irrigation and Slurry Lines
	GREEN - Sewers and Drain Lines

OSHA General Duty Clause

Section 5(a)(1) of the Occupational Safety and Health Act (OSHA) of 1970, employers are required to provide their employees with a place of employment that "is free from recognizable hazards that are causing or likely to cause death or serious harm to employees."

<https://www.osha.gov/laws-regs/oshact/section5-duties>

Product Characteristics

PRODUCT	LEAK TYPE	VAPORS
HIGHLY VOLATILE LIQUIDS [SUCH AS: BUTANE, PROPANE, ETHANE, PROPYLENE, AND NATURAL GAS LIQUIDS (NGL)]	Gas	Initially heavier than air, spread along ground and may travel to source of ignition and flash back. Product is colorless, tasteless and odorless.
HEALTH HAZARDS	Will be easily ignited by heat, sparks or flames and will form explosive mixtures with air. Vapors may cause dizziness or asphyxiation without warning and may be toxic if inhaled at high concentrations. Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite. Fire may produce irritating and/or toxic gases.	

PRODUCT	LEAK TYPE	VAPORS
NATURAL GAS	Gas	Lighter than air and will generally rise and dissipate. May gather in a confined space and travel to a source of ignition.
HEALTH HAZARDS	Will be easily ignited by heat, sparks or flames and will form explosive mixtures with air. Vapors may cause dizziness or asphyxiation without warning and may be toxic if inhaled at high concentrations. Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite.	

PRODUCT	LEAK TYPE	VAPORS
HAZARDOUS LIQUIDS [SUCH AS: CRUDE OIL, DIESEL FUEL, JET FUEL, GASOLINE, AND OTHER REFINED PRODUCTS]	Liquid	Initially heavier than air and spread along ground and collect in low or confined areas. Vapors may travel to source of ignition and flash back. Explosion hazards indoors, outdoors or in sewers.
HEALTH HAZARDS	Inhalation or contact with material may irritate or burn skin and eyes. Fire may produce irritating, corrosive and/or toxic gases. Vapors may cause dizziness or suffocation. Runoff from fire control or dilution water may cause pollution.	

Pipeline Damage Reporting Law As Of 2007

H.R. 2958 Emergency Alert Requirements

Any person, including a government employee or contractor, who while engaged in the demolition, excavation, tunneling, or construction in the vicinity of a pipeline facility;

- A. Becomes aware of damage to the pipeline facility that may endanger life or cause serious bodily harm or damage to property; or
- B. Damages the pipeline facility in a manner that may endanger life or cause serious bodily harm or damage to property, shall promptly report the damage to the operator of the facility and to other appropriate authorities.

Websites:

Call Before You Clear

www.callbeforeyouclear.com

Common Ground Alliance

www.commongroundalliance.com

Federal Office of Pipeline Safety

www.phmsa.dot.gov

National One-Call Dialing Number: 811

www.call811.com

National Pipeline Mapping System

www.npms.phmsa.dot.gov

National Response Center

<https://www.epa.gov/emergency-response/national-response-center> or 800-424-8802

Occupational Safety & Health Administration (OSHA)

www.osha.gov

Paradigm Liaison Services, LLC

www.pdigm.com

United States Environmental Protection Agency (EPA)

www.epa.gov/comeo

Wireless Information System for Emergency Responders (WISER)

<https://wiser.nlm.nih.gov/>



Register for access to
Training Center
Code: EX



Paradigm is public awareness. We provide public awareness and damage prevention compliance services to assist with the regulatory requirements of 49 CFR 192 and 195, as well as API RP 1162. Since 2001, the oil and gas industry has worked with Paradigm to fulfill public education and community awareness requirements.

Our history of implementing public awareness programs and compliance services pre-dates API RP 1162. Most of the pipeline industry's large, mid-sized and small operators, as well as many local distribution companies utilize Paradigm's compliance services.

In serving our clients, Paradigm performs full-scope compliance programs from audience identification through effectiveness measurement. In addition, we offer consulting services for plan evaluation and continuous improvement. At the completion of each compliance program, we provide structured documentation which precisely records all elements of the program's implementation to assist with audits.

Paradigm leads the way in industry service. Pipeline operators and local distribution companies trust in Paradigm to implement their public awareness and damage prevention programs. Each year we:

- Distribute 25 million pipeline safety communications
- Compile and analyze roughly 250,000 stakeholder response surveys
- Facilitate over 1,200 liaison programs
- Implement approximately 1,000 public awareness compliance programs
- Provide audit support and assistance with over 50 public awareness audits

Contact Paradigm for more information regarding custom public awareness solutions.

Contact us:

Paradigm Liaison Services, LLC
PO Box 9123
Wichita, KS 67277
(877) 477-1162
Fax: (888) 417-0818
www.pdigm.com





ABOUT OHIO811

A vital resource for Ohio residents and businesses, OHIO811 acts as a communication link between utility companies and individuals planning any digging activity.

IT'S FREE

OHIO811 is a not-for-profit public safety organization – there is no fee to contact us.

IT'S THE LAW

Ohio law requires that anyone digging contact OHIO811 at least 48 hours (excluding weekends and legal holidays) prior to beginning their work. Failure to contact OHIO811 could result in fines or penalties.

OHIO

Ohio811 800-362-2764

Website: www.oups.org

Hours: 24 hours, 7 days

Advance Notice: 48 hours but not more than 10 working days

Marks Valid: As long as visible and work begins within 10 days of original ticket

Law Link:

<http://primis.phmsa.dot.gov/comm/DamagePreventionSummary.htm>

TICKETS			STATE LAWS & PROVISIONS								NOTIFICATION EXEMPTIONS				NOTIFICATIONS ACCEPTED							
FAX	Online	Mobile	Statewide Coverage	Civil Penalties	Emergency Clause	Mandatory Membership	Excavator Permits Issued	Mandatory Premarks	Positive Response	Hand Dig Clause	Damage Reporting	DOT	Homeowner	Railroad	Agriculture	Depth	Damage	Design	Emergency	Overhead	Large Projects	Tolerance Zone
N	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	N	Y	N	Y	Y	N	Y	Y	Y	N	Y	18"



1.877.477.1162 • oh.pipeline-awareness.com