



Safety Presentation

OHIO811 is the “Call Before You Dig” notification center for the state of Ohio.

OHIO811 is the communication link between those who own and operate underground utility facilities and those with a desire to excavate.



Accident site



Accident Site



This image shows a piece of the pipe section thrown from the accident site

This image shows the remains of the spotter



This image shows the remains of the operator



Directional Drilling Gone Wrong



Directional Drilling Gone Wrong



Objectives

- OHIO811
- Excavator Responsibilities
- Utility Owner Responsibilities
- The Marks
- Types of Excavation Activities
- Things to Remember





Our History

- Serving Ohio for 48 Years
- Not-For-Profit
- Free Service
- 24/7 – 365 days a year
- Protection Service: OHIO811 ***does not*** mark lines
- O.U.P.S./OGPUPS Membership Transitioned to OHIO811 in 2019



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 4*

Excavator Responsibilities

- Plan Work
- ORC 3781.29 (D)(F)(1-4) Premarking in White
Excavator Manual Page 20



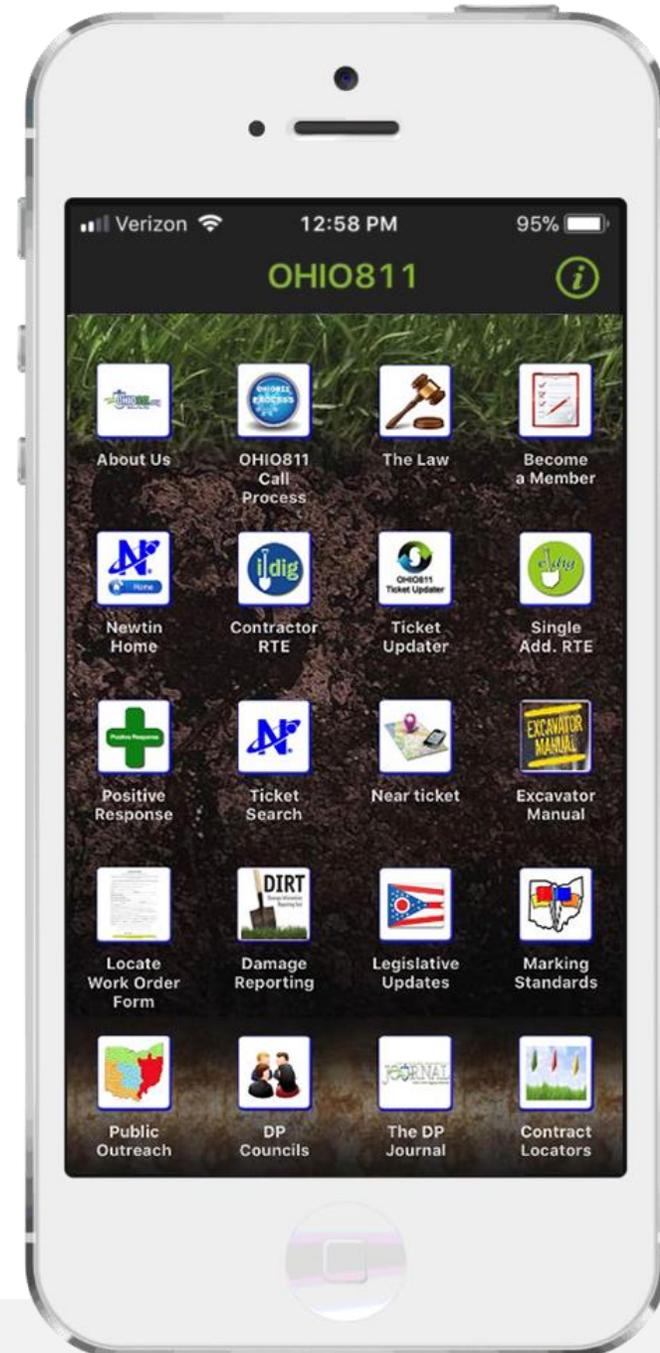
- “(D) Except as otherwise provided in divisions (E) and (F) of this section, prior to notifying a protection service of the proposed excavation, an excavator shall define and premark the approximate location. Proposed construction or excavation markings shall be made in white through the use of an industry-recognized method such as chalk-based paint, flags, stakes, or other method applicable to the specific site and when possible shall indicate the excavator’s identity by name, abbreviation, or initial.”

Excavator Responsibilities *continued*

- (F) “An excavator is **NOT** required to premark the approximate location of an excavation 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 premarking the excavation site
 - (3) The excavation involves replacing a pole that is within five feet of the location of an existing pole
 - (4) Premarking by the excavator would clearly interfere with pedestrian or vehicular traffic control.”

Excavator Responsibilities *continued*

- Click, Call or Tap the App – *Excavator Manual Page 8*
 - *ORC 3781.28(A) “... at least forty-eight hours but not more than 10 working days before commencing excavation, the excavator shall notify a protection service of the location of the excavation site...”*
- Each Excavator Has to Have Their Own Ticket
 - *ORC 3781.25(K) “...the person or persons responsible for making the actual excavation”*



LOCATE WORK ORDER

CALL 48 HOURS BEFORE YOU DIG – 800-362-2764 or 8-1-1

COLOR CODES: **Red** = Electric **Orange** = Phone/Cable TV **Yellow** = Gas **Blue** = Water **Green** = Sewer
Purple = Reclaimed Water, Irrigation and Slurry Lines **Pink** = Temporary Survey Markings
White = Proposed Excavation

HAVING ALL REQUIRED INFORMATION HELPS TO ENSURE A MORE ACCURATE & TIMELY LOCATE

Contact Phone #: 123-234-2233 Additional Phone #: 123-234-3456
Caller Name: John Doe Company Name: ABC Excavating
Company Address: 456 Excavating Road
Email: jd@abcexcavating.org Onsite Contact/Phone #: 123-234-3333
County: Clermont City/Township: Goshen/Stonelick
Address/Location of Work: 123 South Bend Road
Extent of Work: Front/Sides/Rear: Front of Property
Farthest Distance/Direction back off Road: 300 Feet North of
Lot #: 3 Subdivision: Valley View Builder Name: N/A
Cross / Between Streets: Sycamore/Waldo
Distance & Direction from Cross Street: ¼ Mile North of Sycamore
Date of Excavation: June 1, 2019 Start Time of Excavation: 0800 hrs
Type of Work: Water line install Means of Excavation: Mini Excavator
Working for Company: QRS Water Work Done By Company: ABC Excavating
Blasting: No Pre Markings: No Meet: No RR Right of Way: Yes Highway: No
Mile Marker At/From: N/A
Comments: Area premarked with white flags. Please locate
25 ft in all directions of premarks.
Reference Number: A915500134

Being A Prepared Caller

Locate Work Order – *Excavator Manual*
Page 9

OHIO811 Ticket Process

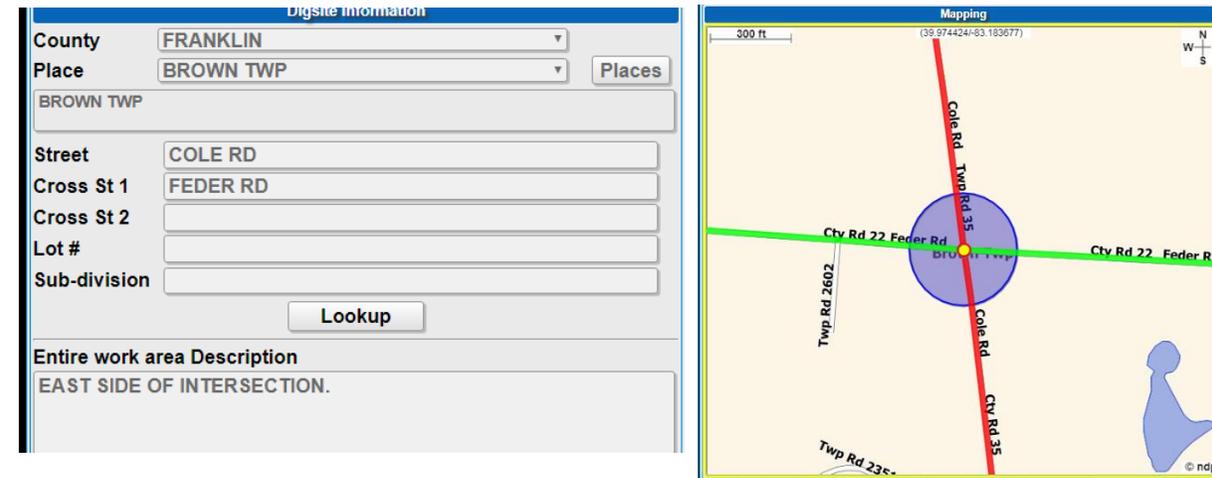
Ticket Descriptions and Gathering Information



Ticket Descriptions

- All information submitted on a ticket is important when determining the proper excavation area to be marked
- A description is like an X on a treasure map
- Requesting specific dig areas and premarking in white help assure more accurate and timely markings
 - Ex: Landscaping – 20ft around house – Installing Deck, Mailbox
- Can the facility owner/locator find the dig area via your description
- Requesting unnecessary locate areas can have a negative effect on receiving timely locates

- Submitting a ticket request too far in advance and requesting remarks without a scheduled dig date can hinder multiple stakeholders



Where are they digging? – E Side would include N/E and S/E corners – if the area was marked in white would specify location

Excavator Safe Digging Process

- CSR Verification – Listen Closely
- Reference Number
- We Notify Our Members But **Not All Utilities Are Registered** With OHIO811
- Wait 48 Hours Before You Begin Excavation
- Check Positive Response – *Excavator Manual Page 10*
 - Excavator has an obligation to check positive response
 - www.oups.org/positive-response/ or 800-445-3894
 - Perform Site Assessment
- Dig With Care



Types of Excavation Activities

- Use of Trenchless Technologies – *Excavator Manual Page 5*
- When utilizing trenchless excavation methods, the excavator must comply with the following requirements:
 - *Expose all underground utility facilities at each crossing point to the installation depth of the new facility.*
 - *Expose all parallel facilities at the beginning and end. If in the tolerance zone, facility shall be exposed every 100 ft.*
 - *Maintain the proper clearances of existing facilities.*



Types of Excavation Activities *continued*

- Emergencies – *Excavator Manual Page 6*

Defined as a “sudden or unexpected occurrence involving a clear and imminent danger, demanding immediate action to prevent or mitigate loss of, or damage to life, health property, or essential public services”



Types of Excavation Activities *continued*

- Large Project

- A large project may progress over an extended period of time and / or be complex in size/scope and work type

- Process

- Excavator calls OHIO811 to request a large project / joint meet ticket
- Excavator and facility owner / representative meet
- A mutually agreed upon marking schedule is created
- Excavator calls OHIO811 with project excavation tickets in accordance with **mutually agreed upon marking schedule**
- Locator marks underground facilities as project excavation tickets are received
- Excavation begins



Things To Remember

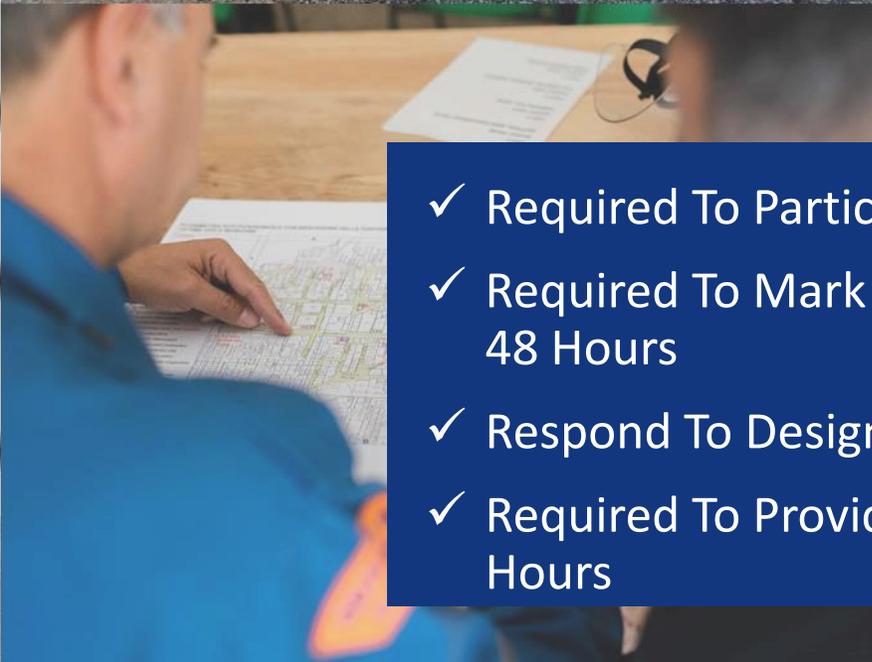
- Contact OHIO811 48 hours before you dig
- Check Positive Response
- Preserve and Protect The Marks
- Don't Work Off Someone Else's Ticket
- Not All Utilities Are Registered With OHIO811
- Utilities May Not Run In A Straight Line
- Do Not Assume Depth
- Report All Damages



OHIO811



Facility Owner Responsibilities



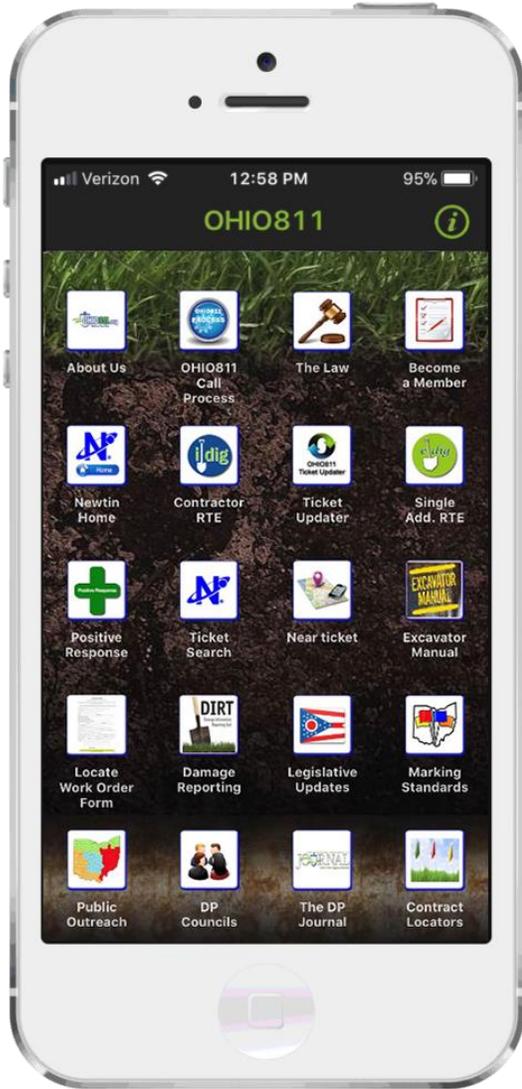
- ✓ Required To Participate In A Protection Service
- ✓ Required To Mark The Approximate Location Within 48 Hours
- ✓ Respond To Design Tickets in 10 Days
- ✓ Required To Provide Positive Response Within 48 Hours

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



Some Mobile App Features



Near Ticket:

OHIO811

Newtin Near Ticket

Get Tickets

Ticket	Address
B003600176-00B	12485 COMMISSIONER DR
A005001693-00A	12485 COMMISSIONER DR
A002702174-00A	MAHONING AVE / undefined
A002702235-00A	N BAILEY RD / undefined

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Details for: A936401138-00A
 State: OH
 County: LORAIN Place: LORAIN
 Street: 6196 W MEADOW FARM LN
 Cross 1: BUTTERCUP LN
 Cross 2: GOLDENROD LN
 Location: ENTIRE PROPERTY- FROM HOUSE TO PED FARTHEST POINT OFF ROAD: LESS THAN 200 FT DISTANCE FROM CROSS STREET: ADDRESS BETWEEN AREA IS MARKED IN TEMP LINE
 Company: UNDERGROUND TECHS LLC
 Work Type: PHONE LINE INSTALLATION
 Work Date/Time: 01/30/2020 10:37:00 AM

Map showing location near Buck Horn Blvd, W Meadow Farm Ln, Goldenrod Ln, E Meadow Farm Ln, and Amherst.

WIDE OPEN WEST - CLEVELAND 001 No conflict 12/30/2019 12:06:00 Rev: -00A LORS LORAIN - CITY OF (SEWER) 001 No conflict 12/31/2019 09:01:22
Rev: -00A LORTR LORAIN - CITY OF (TRAFFIC) 001 No conflict 12/30/2019 13:11:21
Rev: -00A LORW LORAIN - CITY OF (WATER) 001 No conflict 12/30/2019 12:49:46
Rev: -00A OED OHIO EDISON - (USIC) 002 Marked - up to privately owned utility 12/30/2019 14:55:54
Rev: -00A PIF COLUMBIA GAS OF OHIO-LORAIN (UTILIQUEST) 001 No conflict 12/30/2019 14:30:10
Rev: -00A UTBP CTLCL - CENTURYLINK (USIC) 001 No conflict

Positive Response:

09:23

OHIO811

Ne

09:24

OHIO811

Newtin - A (OUPS Youngstown)

Response Display

Ticket A9364011: Submit

Ticket	Revision	Address	Street	Cross street	Company
A936401138	Latest revision: 00A	6196	W MEADOW FARM LN	BUTTERCUP LN	UNDERGROUND TECHS LLC

Code	Name	Response	Description	Responded	Revision URL
AMM	WIDE OPEN WEST - CLEVELAND	001	No conflict	12/30/19 12:06:00	00A
LORS	LORAIN - CITY OF (SEWER)	001	No conflict	12/31/19 09:01:22	00A
LORTR	LORAIN - CITY OF (TRAFFIC)	001	No conflict	12/30/19 13:11:22	00A
LORW	LORAIN - CITY OF (WATER)	001	No conflict	12/30/19 12:49:46	00A
OED	OHIO EDISON - (USIC)	002	Marked - up to privately owned utility	12/30/19 14:55:54	00A
PIF	COLUMBIA GAS OF OHIO-LORAIN (UTILIQUEST)	001	No conflict	12/30/19 14:30:10	00A
UTBP	CTLCL - CENTURYLINK (USIC)	001	No conflict	01/06/20 17:03:24	00A
WNOP	CHARTER COMM (SPECTRUM/TIME WARNER)/USIC	002	Marked - up to privately owned utility	12/30/19 14:55:13	00A

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Powered by Newtin

Ohio's Universal Marking Standards Topics

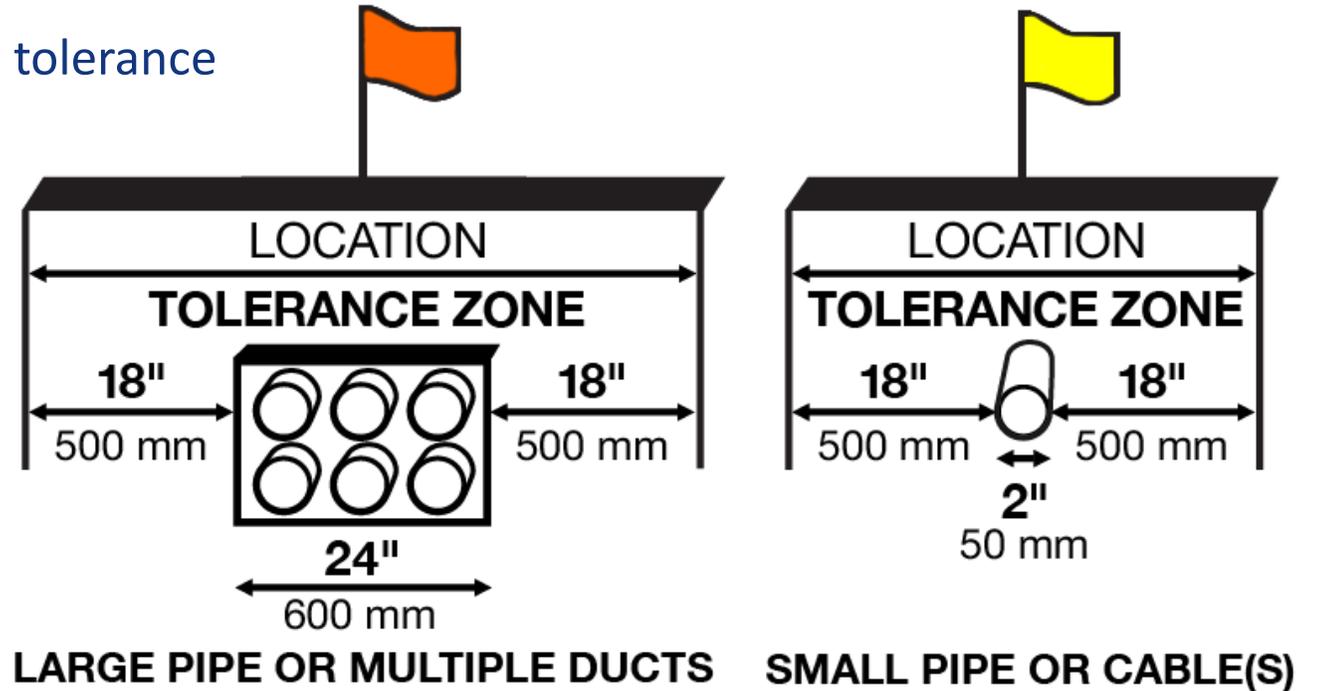


- Tolerance Zone
- Color Code
- Marking Standards
ORC 3781.29(2)(C) "All underground facilities shall be marked in accordance with the Ohio universal marking standards..." - Excavator Manual Page 19
- Faded Or Marks That Are No Longer Visible

Tolerance Zone

ORC 3781.25(E) "...the site of the underground utility facility including the width of the underground utility facility plus eighteen inches on each side of the facility."
Excavator Manual Page 13

Ohio law requires that the excavator observe the tolerance zone during excavation....



APWA Color Code

ORC 3781.29 (C) | "A utility shall mark its underground facilities using the following color codes:..."

- RED** Electric power lines, power conduits, lighting cables, and other energized wires, such as traffic signals
- ORANGE** Telecommunication lines, fiber optic cables, alarm or signal lines, cable TV or conduits
- YELLOW** Natural gas, oil, steam, liquid petroleum, or other gaseous or flammable material
- GREEN** Sewers and Drain Lines

- BLUE** Drinking / potable water
- PURPLE** Reclaimed Water, Irrigation and Slurry Lines
- PINK** Temporary Survey Marking
- WHITE** Proposed Excavation



Excavator Manual page 19

Ohio's Universal Marking Standards Identification Abbreviations

When marks are placed at the excavation site, the owner/operator of a utility line shall be indicated by a letter or letters utilizing the APWA color code.

WHITE LINING *(Continued)*



For continuous excavation, such as trenching, boring, etc., mark the center line of excavation with dashes in white paint. Excavation width (in feet) shall be indicated on either side of the center line in legible figures.

White flags or stakes may be used in place of white paint and, in some situations, may be more practical.

EXCESSIVE MARKS

Markers used to identify underground facilities should not be excessive or oversized.

CORRECTING MARKING ERRORS

Marking errors shall be corrected by the locator/operator and communicated to the excavator as soon as possible after the discovery of such errors. Black paint shall be used to remove, cover up or cancel erroneous markings. In the event of damage, marking errors shall be preserved until such marks are documented.

CABLES

Underground utility lines of the same type in the same trench owned by the same company shall be marked individually.

- A. If a single underground facility is present, it shall be marked by placing a single mark over the approximate center of the facility. It is recommended that this mark be a minimum of 1" wide and 12" in length.



- B. If multiple underground facilities are present, they shall be marked by placing a single mark over the approximate center of each underground facility. It is recommended that this mark be a minimum of 1" wide and 12" in length.



Marks shall be placed at the beginning and the end of the locate and at a minimum interval of two feet but not more than fifty feet throughout the locate as needed to clearly identify the route of the underground utility.

Ohio's Universal Marking Standards Identification Abbreviations

continued

PIPELINES

A. Pipelines 2 inches and smaller (nominal size): The physical location of a pipeline shall be represented by a single mark.



B. Pipelines larger than 2 inches (nominal size): The physical location of a pipeline shall be represented by a single mark. The nominal size shall be noted.



For all pipelines:

1. The owner/operator shall be identified. Flags, as well as paint, shall be deemed acceptable as identifying the owner/operator.
2. When known, the material type of the pipeline shall be indicated using the "material type" abbreviation index.
3. When the facility is installed in casing the facility shall be marked as follows: "diameter and material type / casing diameter and material type". If the casing size or material is unknown it shall be indicated by "UNKN" and, the excavator, designer, or engineer should contact the facility owner. All parties involved shall work jointly to establish accurate information.



4. Marks shall be placed at the beginning and the end of the locate and at a minimum interval of two feet but not more than twenty-five feet (25') or anytime the facility changes direction, (maximum interval length does not apply to design tickets) throughout the locate as needed to clearly identify the owner/operator, pipeline location, material, and width.
5. All numbers identifying width shall be in inches.

Ohio's Universal Marking Standards Identification Abbreviations

continued

CONDUIT/DUCT BANK

The term "conduit" shall be used for a single enclosure containing one or more facilities; the term "duct bank" shall be used for a structure containing two or more conduits.

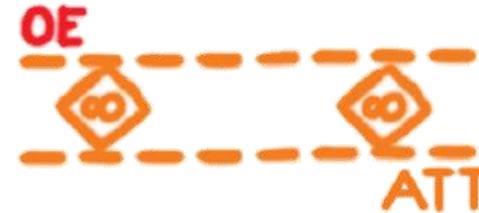
- A. For banks constructed with ducts sized 2 inches or less, the following information will be provided:
1. A single mark is used.
 2. A diamond is placed within the mark.
 3. The number of small-diameter ducts shall be indicated within the diamond symbol.



- B. For duct banks containing ducts larger than 2 inches, the following information will be provided:
1. The duct bank boundary (the "width") is identified with marks after locating the outermost ducts within the bank.
 2. The number of facilities shall be placed within the diamond. This diamond shall be placed within the duct bank boundary marks.



In situations where multiple conduits/ducts which are owned and/or operated by different companies are placed together in a bundle fashion, a conduit structure or duct bank marking symbol shall be used by the first operator marking the facility. Other operators owning facilities within the bundle shall verify the marks and add their owner/operator letter designation.



- C. For all conduits and duct banks:
1. The owner(s)/operator(s) shall be indicated using the facility owner identification code.
 2. Marks shall be placed at the beginning and the end of the locate and at a minimum interval of two feet but not more than twenty-five feet (25') or anytime the facility changes direction, (maximum interval length does not apply to design tickets) throughout the locate as needed to clearly identify the owner/operator, the conduit/duct bank location, and the number of conduits. If known, indicate number of conduits in a duct bank.

Ohio's Universal Marking Standards Identification Abbreviations

continued

OFFSET MARKS

In areas prone to the frequent destruction of marks, offset marks may be used in conjunction with the marks placed at the actual location of a facility. They are intended to be used as a supplemental means of marking.

1. A line is placed in conjunction with an arrow and a measurement (stated in feet), which specifies the distance from the reference line to the actual location of the facility.
2. The arrow indicates the direction from the reference line to the actual location of the facility.
3. The arrow shall be oriented at 90 degrees to the reference line.
4. The distance to the actual location of the facility, from the reference line, shall be placed on one side of the arrow.
5. The locator shall provide all of the necessary information which adequately identifies the specific facility in accordance with the marking standards. This information shall be placed on the side of the arrow which is not utilized for the "distance" information.

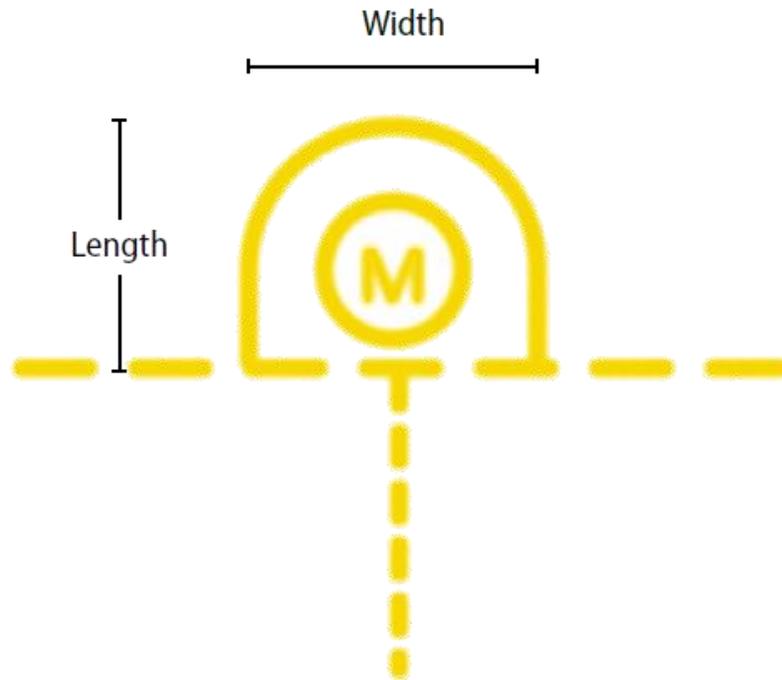


Ohio's Universal Marking Standards Identification Abbreviations

continued

BACK TIED/LOOPED SERVICE

When known by records or documentation, the symbol shall be a ½ circle equaling 36" in width and 36" in length unless greater amount is identified.



FACILITIES MARKED ACCORDING TO RECORD

Facilities not marked via electronic equipment should be indicated in this manner, in appropriate facility color code.



The background of the slide is a dense field of 3D, light gray question marks. The marks are scattered and vary in focus, creating a sense of depth and a 'sea of questions' theme. A white rectangular box with a blue border is positioned on the right side of the slide, containing the text 'Q & A'.

Q & A