Marking Guidelines FOR THE STATE OF MARYLAND AND WASHINGTON, D.C.

ATTENTION This guide does not include 2021 modifications regarding damage Prevention laws for both Maryland, Title 12 and DC, Title 34

ATENCIÓN Esta guía no incluye las modificaciones con respecto a las leyes de prevención de daños del año 2021 para Maryland, Título 12 y DC, Título 34

These links will provide information on the new laws; <u>www.missutility.net [missutility.net]</u> for both MD and DC Law information <u>www.mddpa.org [mddpa.org]</u> for MD law information



Foreword

Damage to underground facilities can have far-reaching consequences, from serious injury and environmental damage to the loss of vital services we depend upon every day. Preventing damage to these facilities is a responsibility shared by all stakeholders and is accomplished through various damage prevention measures.

At the heart of any damage prevention program is the exchange of accurate and consistent information between excavators and operators of underground facilities. Locating and marking underground facilities is the way operators show the approximate horizontal location of their facilities in advance of an excavation. This information helps the excavators to safely excavate around underground facilities.

In an effort to enhance the current marking practices and encourage the use of uniform marking symbols across Maryland and Washington, D.C., stakeholder representatives have agreed on a set of marking best practices that are found in this booklet. All participants in this effort are to be complimented on their dedication and contributions in devising these best practices. Operators and their locators are strongly encouraged to follow these best practices to mark their facilities.

The pictures and illustrations in this booklet are for example only and do not reflect all the markings that may be encountered in the field. Contractors are encouraged to contact the locate company and/or utility owner if they encounter any unfamiliar markings and have questions concerning their meaning. Information in this booklet is subject to change without notice. The purpose of this manual is for damage prevention education and should not be used as a legal document.

Table of Contents

Marker Types	4
Facility Markings	5
Descriptions	6-10
Definitions	11-12
Local Damage Prevention Committees	12-13
APWA Uniform Color Code	14
Notes	15



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3→

Marker Types

The marker types that are most suitable to the



Example of structure, standard marks

End of loc	ate request	>	Example of facilities
El Trans.	■ <u>E</u>	>	continuing
Tel Ped.	• <u>TEL</u>	>	past locate point

When and Where Flags Can Be Used

- Areas without fixed vegetation (dirt-only lots, dirt roads, etc.)
- · When inclement weather exists or is anticipated
- Heavy construction/high-traffic construction sites
- Right of ways with tall vegetation
- Flowerbeds or other landscaped areas
- · In conjunction with paint

Discretion shall be utilized when using flags

as it relates to public safety (e.g., playgrounds, schools, residential **exemple etc.**). *TV pedestal, coax cable*



4

Facility Markings

The American Public Works Association's



Example of structure, standard marks, corridor

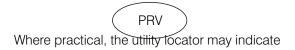
Single Facility Markings Should Be

- 2 in.-4 in. wide
- 6 in.-18 in. long
- 2 ft.-12 ft. distance between markings, all site specific

Dots

Dots should be used on sidewalks, driveways,





5-

the existence of private utilities by the label:



Example of conduits, underground structure

Descriptions

in the confines of the same trench that are encased or contained inside an external structure other than its manufactured sheathing or coating. This should exclude direct-buried fiber optics. Example:

Corridor Marks

Corridor marks represent any structure that has a diameter that is greater than 4" and shall be used when identifying any multiple cabled or pipe facilities in the confines of the



external structure other than its manufactured sheathing or coating. This should include directburied fiber optics.

Pipes 6", 8", 10", 12", 16", 18", 20", 22", 24", 30", 40", 42", 48" and above shall be identified by a designated corridor pipe marking, see

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Eigure 1-1. Example of fiber labeling:

facility shall be indicated at the beginning and at the end of the locate request area and site specific in between.

Perimeter Markings of Structures/ Hand Dig Zone

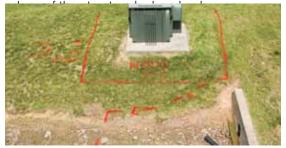
Visual facility structures that are on or beneath the surface include, but are not limited



to, manholes, Eradleronocriter TV pedestal, fiber Bolic, color cable communication pedestals, gas and electric structures, vaults, water and sewer

facilities, etc.

While working in the proximity of an identified underground structure, it is the responsibility of the excavator to positively identify the outermost



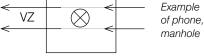
Example of electric transformer, hand dig zone, corridor, lateral

Fig. 1-2



Example of sub-surface electric transformer

Hegarding above-ground structures, perimeter structure size is to be established by the utility owner. Within any established perimeter, identification Office butermost edges shall be determined by hand or vacuum excavation.



8



Example of offsets

Offsets

In an area where marks may be destroyed (e.g., high-traffic areas, gravel areas, dirt areas, etc.), or where surface conditions are such that the placement of marks directly over the utility line is not possible, offset markings shall be used. The offset marks should be placed on a permanent surface, which is not likely to be destroyed.

When possible, offset marks should be used in conjunction with marks placed in accordance with the APWA's color codes. Offset marks shall

MIS-2011-11624 Marking Guidelines-Reader Spreads.indd 11

include an arrow, pointing in the direction of the utility line, with the distance in feet (measured with an appropriate instrument) to the location of the



Example of standard marks, lateral

Lateral Utilities and Utilities that Change Direction

When utilities change direction, or where lateral lines exist, they will be clearly located, and the locate marks will be closer in proximity to identify the change. This will include intersecting facilities, facilities changing direction, facility ends and lateral lines.



Example of white lining

White Lining

White lining is strongly recommended for proposed excavations. When utilizing white lining, a clear footage definition of radius (in feet) around the white paint markings should be established in the ticket instructions for utility markings involving: single-point excavations, such as signs, poles, pole bases, anchors, drilling, blasting, etc.; or continuous excavation, such as trenching, plowing, boring, grading, etc.

When white lining is not practical, other means of area of excavation descriptions can be used, such as site meetings, document transfers, etc.

Definitions

Abbreviations

CI	Cast Iron
CPR	Copper
DI	Ductile Iron
PL	Plastic
PVC	Polyvinyl Chloride
RFC	Reinforced Concrete
SCC	Steel Cylinder Concrete
STL	Steel
тс	Terracotta
TR	Transite (Asbestos)
WRP/WS	Wrapped Steel
PCCP	Prestressed Concrete Cylinder Pipe
KD	Korduct
FG	Fiberglass
GALV	Galvanized Steel
LP	Low Pressure

MP	Medium Pressure			
Company Name	District Code	Status	Date	Time
	Transmi	ission	Line	09:33:12
AT&T TRANSMISSION	ATM01	1	20080129	06:50:33
ERECTANSMERIDIE	CDEIACDA	ons	20080128	21:20:29
	Primany	2	20080129	09:33:12
SEC	Second	lary		
S/L	Street L	ights		
1/0				
#2 cables				
350s				
500s				
750s				
1,000s				
69KV	or >69,	000 v	olts	
110/115KV	or > 11	0,000	volts	
(Listed in order	of power s	strength)	

Sample Miss Utility Ticket Check Status

Code Definition

- 1 Clear/No Conflict
- 2 Marked
- 3 24-hour delay
- 4 48-hour delay
- 5 Not Complete/In Progress: Locator has spoken to excavator and both agreed to this message
- 6 Locate Discrepancy
- 7 Not Complete/In Progress: Dispute
- 8 Utility Locator has not yet responded
- 9 Marked up to privately owned utility

10/A Incorrect address information; Please call Miss Utility to reschedule

Local Damage Prevention Committees

Local Damage Prevention Committees are groups of stakeholders who are concerned about preventing damage to underground utilities.

By becoming an active member, you will have the opportunity to discuss, in an informal setting, your concerns and ideas related to preventing damage to underground utility lines, and become part of a local and statewide network of stakeholders through which important damage prevention information is communicated quickly and effectively. In addition, your local damage prevention committee promotes partnerships. Developing partnerships with other stakeholders can result in open communication, problem solving and avoiding conflicts. There is no cost to become a member.

Local damage prevention committees meet on a regular basis in the following two geographic areas of Maryland/D.C.:

Maryland/D.C.

Miss Utility 7223 Parkway Drive, Suite 100 Hanover, MD 21076 missutility.net/maryland

Eastern Shore (Delmarva)

Utilities Service Protection Services

13→

APWA Uniform Color Code for Marking Underground Utility Lines



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



GREEN-Sewers and Drain Lines



PURPLE–Reclaimed Water, Irrigation and Slurry Lines

PINK-Temporary Survey Markings

WHITE-Proposed Excavation

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

Maryland/D.C. 1.800.257.7777

Eastern Shore (Delmarva) 1.800.441.8355

