

# MISS DIG ASSET MANAGEMENT 21<sup>ST</sup> CENTURY INFRASTRUCTURE COMMISSION

## 1. TODAY

### A. PA 174-<http://www.missdig.org/education/public-act-174.html>

- i. Refer to Section 3 for Definitions. Key Definitions are:
  1. *Design Ticket*-*"Design ticket" means a communication to the notification system in which a request for information regarding underground facilities for predesign, design, or advance planning purposes, but not marking for excavation or blasting, is made under the procedures described in section 6a.*
  2. *Facility*-(o) *"Facility" or "underground facility" means an underground or submerged conductor, pipe, or structure, including, but not limited to, a conduit, duct, line, pipe, wire, or other device and its appurtenances used to produce, store, transmit, or distribute a utility service, including communications, data, cable television, electricity, heat, natural or manufactured gas, oil, petroleum products, steam, sewage, video, water, and other similar substances, including environmental contaminants or hazardous waste. (p) "Facility operator" means a person that controls the operation of a facility.*
  3. *Public right-of-way*-(o)*"Public right-of-way" means the area on, below, or above a public roadway, highway, street, alley, easement, or waterway*
- ii. Refer to Section 6a. Project design or planning services:
  1. *Sec. 6a. (1) The notification system shall establish reasonable procedures, including marking response times, for design ticket notification to facility owners or facility operators of requests for project design or planning services to determine the type, size, and general location of facilities during the planning and design stage of a construction or demolition project. Facility owners or operators may charge the person requesting project design or planning services separate fees for design or planning services. (2) Procedures under this section do not affect or alter the obligation of excavators to provide notice of blasting or excavation under section 5. (3) The response to a design ticket is to provide general information regarding the location of underground facilities, not to mark any facilities. However, if a facility owner or operator does not have drawings or records that show the location of a facility, the facility owner or operator shall mark that facility under the procedures described in section 7. A design ticket or information provided in response to a design ticket does not satisfy the requirement under this act for*

*excavation or blasting notice to the notification system or marking the approximate location of facilities for blasting or excavation*

iii. Current MISS DIG practice for Design Ticket Process:

1. *Intent of Purpose:* The obligation of the facility owner/operator is to first determine if they have facilities in the design area, and then provide drawings or records for the area as described by designer. If: a. the facility owner/operator determines that they do not have sufficient drawings or records then the facility owner/operator will arrange for marking of their facilities and coordinate with designer. b. The designer determines that the drawings or records are not sufficient; the designer can request the facility owner/operator to mark their facilities. All communication regarding design requests will be between the designer and the facility owner/operator.

The Facility owner/operators required reply time to a Design Ticket request is 21 calendar days. Facility owner/operators will be requested to post one of the following responses to Design Tickets they receive:

- Design-No Facilities (Code 201 definition: No facilities in area as described in the scope of excavation)
- Design-Task Completed (Code 202 definition: Facility owner/operator sent record drawings to designer)
- Design-Marking Required (Code 203 definition: See Intent of Purpose)

2. *Procedure:*

- The designer requests Associate Membership to the MISS DIG System via an online request form.
- Upon completion and return of a MISS DIG Associate Design Membership contract, the design member is invited for remote training by the training team.
- Design tickets are created by the newly trained designer via the web ticket entry system. Design notifications are sent electronically to all participating design members.

iv. Detectable Facilities:

*PA 174 Section 7. (8) New facilities built after the effective date of this act shall be constructed in a manner that allows their detection when in use. MDPB Best Practices- All facilities must be constructed so that they can be located by one of the following methods:*

- For electrically conductive facilities - copper, steel, ductile iron, galvanized- a locator can be attached to the facility to place a low voltage charge and then locate the facility, therefore the facility itself allows for detection when in use.

- Facilities made of inert materials- concrete, fiber and plastic, which comes in many forms PVC (sewer and water), ABS (storm and waste water), PP (chemical waste and brine), PE (Natural Gas lines), PVDF (waste water to gas)- require some form of assistance to allow detection when in use, such as a tracer wire or even marker balls.
- Survey data, referenced to a USGS Coordinate system or direct survey grade GPS points, and recorded within the standards of professional care by a licensed surveyor at the time of construction. The data can be used to define the location of the facility through use of same method used to capture the data.

v. Asset management:

1. Facility Owner Operators (FOOS) are notified of planning and design for upcoming projects in or near their facilities. Some Facility Owner Operators also use the information from these requests for development of their facilities, i.e. a designer has a design request for a new manufacturing plant, Natural Gas and Electric Facility Owner Operators have their planners reach out to find out what energy requirements there might be.
2. Designers should receive plans/information on facilities that may impact the design and should be considered for planning purposes. The Designer also receives the contact information from each Facility Owner Operators.
3. All facilities in the public right-of-way after April 1, 2014 are required by law to be detectable.

## 2. IN DEVELOPMENT

### A. Near Ticket:

- i. MISS DIG is developing a “Near Ticket” application that will allow anybody with a current Design Ticket to be able to see what other Design tickets were requested in the same area. This will be a part of our 2016-2017 system upgrades. We will review the option to also allow a design ticket submitter to review active dig tickets for the area near their design.

### B. GUIDE:

- i. GUIDE- Geospatial Underground Infrastructure Data Exchange is an MDOT initiative to acquire underground utility information in the MDOT permitted right-of-way. MDOT in collaboration with MUCC (Michigan Utility Coordination Committee). MDOT has received 2 grants to date to develop the GUIDE initiative, see links below. The second grant, to build the Data collection piece incorporates the Facility Codes the MISS DIG System uses to identify their member’s specific facility ownership and type.

- ii. [http://www.missdig.org/cm/dpl/downloads/content/77/GUIDE\\_Report\\_-\\_2014\\_Pilot\\_Initiative.pdf](http://www.missdig.org/cm/dpl/downloads/content/77/GUIDE_Report_-_2014_Pilot_Initiative.pdf)
- iii. [http://www.missdig.org/cm/dpl/downloads/content/77/2016-03-23\\_-\\_GUIDE\\_Phase\\_2\\_GDB\\_Template\\_Guide.pdf](http://www.missdig.org/cm/dpl/downloads/content/77/2016-03-23_-_GUIDE_Phase_2_GDB_Template_Guide.pdf)

C. WEBTMS-E:

- i. MISS DIG with a grant from PHMSA is developing a Web Ticket Management System that will allow all members- Facility Owner Operators, Excavators and Designers to manage their MISS DIG requests, whether Design or Dig tickets. One element of this development is to incorporate Facility Owner Operator/Locator notes, pictures and drawings or hyperlinks to that information.

3. FUTURE

- A. GUIDE Implementation- MDOT has a grant request that would allow MDOT to implement the GUIDE initiative on a regional basis as a pilot. These efforts would further a policy or standard that would be developed by multiple stakeholders and vetted by MDOT. This standard could be adopted by Facility Owner Operators throughout the State, just as the MDOT Construction Standards are used now.
- B. MISS DIG future Design Process-Incorporating the PA 174 requirement for detectable facilities and the GUIDE Standards, MISS DIG would store and supply record drawings after the affiliated Facility Owner Operator reviewed and approved. MISS DIG could provide this information to designer/planners through the Design Ticket process.
- C. MISS DIG would incorporate the above described process into the dig locate process. MISS DIG would request construction plan drawings that incorporate the record drawings from the design ticket process be submitted with dig ticket locate request. When the locate ticket expires MISS DIG would request record drawings be provided to the appropriate Facility Owner Operators. After the review and approval of the Facility Owner Operators MISS DIG would close out that locate request and add the record drawings to our design ticket library.
- D. MISS DIG would be able to vet the Design ticket process through it's membership, which is every Facility Owner Operator - Public Utility, Municipality, University, Utility Authority, and Private Facility Owners. Once the process is vetted through the membership and associated committees- MUCC, TIME and MDPB. We will have reached consensus and adoption. In addition, participation would be enforceable by PA 174 and the MPSC.