

Utility Marking Standards

1. GENERAL

- A. Many cases have occurred where utilities have been broken or damaged by excavation and/or construction activities. A simple tracing or marking tape, laid above the utility to mark the presence of the utility and the specific utility will not only save the university repair costs, but also avoid the often significant impact of damage and outages to utility systems.

2. UTILITY MARKING TAPE

- A. All utility lines shall be marked with plastic identification tape. Non-metallic utility lines shall be marked with magnetic tape. Irrigation lines must be marked with tape and tracing wire. Installation shall be in accordance with the University Design Guidelines and this directive. This shall apply to all new installations, repairs and renovations.
- B. FMD Utility Locator shall identify existing utility locations and verify utility type. Supervise the proper selection of utility marking tape and installation of utility marking tape.
- C. FMD Project Managers shall contact the utility locator to confirm and coordinate utility marking tape placement.
- D. Utility marking tape shall be a minimum of three (3) inches wide, of the proper color as noted above, with lettering in contrasting color, a minimum of two (2) inches tall. Tape shall be appropriately marked, i.e. chill water, high voltage, etc. Tape shall run continuously along the length of the pipe or ductbank. All utility marking tape shall be approved by the Associate Director, Facilities Management Department, Systems / Engineering Services prior to use and/or installation.

3. UTILITY MARKING TAPE LOCATION

A. Pipes

- a. Utility marking tape shall be centered over the pipe, twelve (12) inches below finish grade.

B. Ductbanks

- a. Less than sixty (60) inches in width: utility marking tape shall be centered over the ductbank, twelve (12) inches below finish grade.
- b. Greater than sixty (60) inches in width: two (2) utility marking tapes shall be placed at the one-third points above the ductbank, see Attachment 1.

- c. Utility marking tape shall be centered over the pipe, twelve (12) inches below finish grade.

4. Color Coding for Utility Marking Tape

<i>UTILITY</i>	<i>COLOR or TAPE</i>
HIGH VOLTAGE / ELECTRIC	RED
TELECOM / CATV / FIBER	ORANGE
STEAM	GREY
CHILLED WATER	LIGHT GREEN
WATER	BLUE
NATURAL GAS / OIL	YELLOW
STORM SANITARY SEWER	KELLY GREEN
TEMPORARY SURVEYING MARKINGS	PINK
IRRIGATION LINES	BLUE W/ WHITE STRIPE