01010 DIRECT BURIED NONCONDUCTIVE UTILITIES

PART I: GENERAL

1.01 TRACER WIRE

A. #12 HMW-PE yellow jacket, 45 mil solid copper shall be installed to enable electronic locating of the utility.

1.02 WARNING TAPE

A. Colored plastic or metalized, installed 12 to 18 inches above all Utilities, but no less than 6 inches below grade.

B. Where required, use warning tape: (per AIA MasterSpec) Acid - and alkali-resistant Polyethylene film warning tape manufactured for marking and identifying underground utilities, 6 inches wide and 4 mils thick, continuously inscribed with a description of the utility.

C. Tape Colors: Provide tape colors to utilities as follows:

   Red: Electric
   Yellow: Gas, oil, steam, and dangerous materials
   Orange: Telephone and other communications
   Blue: Water systems
   Green: Sewer systems

PART 2: NONCONDUCTIVE – PLASTIC GAS PIPES

2.01 NATURAL GAS PIPES

A. A tracer wire shall be installed in the trench with all direct-buried plastic gas pipes. The wire shall be placed adjacent to, but not touching, the pipe, and in no case shall it be wrapped around the pipe. A maximum distance from the pipe to the wire is one (1) foot.
2.02 DIRECT BURIED SERVICE

A. Tracing wire is to be brought to the surface (above ground) at the riser. This wire shall also be connected to tracer wire at the gas main by means of a split bolt or compression type connector to insure continuity of the tracer system.

2.03 WARNING TAPE

A. In addition to the tracer wire, all gas pipes must have a Yellow warning tape. (See Para. 1.02.)

2.04 DETAIL


PART 3: NONCONDUCTIVE UTILITIES (EXCEPT GAS)

3.01 A tracer wire shall be taped to the top center of all direct buried nonconductive utilities. This type of utility shall include, but not limited to, all plastic or FRP Pipes or conduits. This Specification also applies to storm drain and sanitary sewer pipes that do not run a straight line and/or both ends are not visible from the surface.

3.02 TRACER WIRE TERMINATION

A. The tracer wire shall be terminated at a readily accessible location, reachable from above ground, and shall not be beyond reach in a confined area.

3.03 WARNING TAPE

A. In addition to the tracer wire all direct buried utilities must have a plastic warning tape. (See Para 1.02.)

3.04 DETAIL

A. Refer to Cornell University Standard Detail 4.7.1: Non-Conductive Utility Tracer Wire (Except Gas).