

SECTION 02558

IDENTIFICATION/LOCATION GUIDE

PART 1: GENERAL

1.01 SCOPE

- A. Furnish and install identification tape and location wire over the centerline of buried potable water mains, hydrant branches, and trenched services as indicated in this specification or noted in the drawings.

PART 2: PRODUCTS

2.01 LOCATION WIRE

- A. Location (Tracer) Wire for Polyvinyl Chloride Pipe, Ductile Iron and HDPE (and other pipe where noted in the drawings) Location wire shall be a direct burial #19 AWG Tin Coated CU, Solid, (.0358" nominal) 300v, 32 MIL HDPE Jacket, woven polyester & water blocking yarns, 1800# break, 38,500 PSI tensile strength. Blue polyethylene jacket complying with ASTM D1248. The wire shall be continuous except at test stations and valve boxes where the splicing shall be encased with a Neptco Connector No. TS-19-LC, and where splicing is required underground it shall be encased with a Neptco Connector No. TS-19-IL. Wire insulation shall be highly resistant to alkalis, acid and other destructive agents found in soil.
- B. Location Wire shall be from Neptco Inc, part number RT1802W or approved equal. For splicing onto a fire hydrant use accessory part number – TS-FHC-IWN and for main line lateral use part number TS-19.
- C. With direction bore method the Location Wire shall be installed simultaneously with pullback of the HDPE pipe. Wire shall be taped to the pipe at six (6) foot minimum intervals before installation.
- D. Location wire to be terminated at each end of a directional bore crossing within a valve box.

2.02 RESTRAINED JOINT MARKING TAPE

- A. Joint restraint tape is specifically to warn Water Company workers/contractors that the water main is joint restrained. It is not to be used in place of regular marking tape.
- B. Restrained Joint Marking Tape (for with mains that are restrained joint as directed by the Engineer) shall be polyethylene 4-mil thick and 2 ½-inches wide with blue lettering on white background color and imprinted with the words "RESTRAINED JOINT" every 2 foot. The tape shall have an adhesive backer. The tape shall be highly resistant to alkalis, acid and other destructive agents found in soil.

- C. Restrained Joint Marking Tape shall be part number MIAM-010 manufactured by St. Louis Paper & Box Company located at 3843 Garfield, St. Louis, MO 63113 and AA Thread Seal Tape Inc. 1275 Kyle Court Wauconda, IL 60084 or approved equal.

PART 3: EXECUTION

3.01 INSTALLATION OF LOCATION WIRE

- A. Install location wire with all buried PVC, HDPE and Ductile Iron water lines in accordance with the manufacturer's installation instructions and as specified in Contract Documents.
- B. Install the location wire directly on top of the buried pipe.
- C. In all pipe installations loop the location wire up into the valve boxes for connection to a locating device. The wire shall be one continuous piece from valve box to valve box up to 1250 feet maximum.

3.02 INSTALLATION OF RESTRAINED JOINT MARKING TAPE

- A. Install the restrained joint marking tape by adhering directly to the pipe as it is installed. The marking tape shall be installed along the entire length of pipe, including around the circumference of the bells of all valves and fittings. The pipe must be free of any foreign matter along the surface of the pipe for the marking tape installation. The restrained joint tape shall be applied on the top ¼ of the pipe barrel and clearly visible through the polyethylene encasement.
- B. The tape does not adhere in wet or cold conditions. The tape should be stored in temperatures above 50 degrees F until the time of application and the pipe must be free of frost and moisture along the surface of the pipe that is to receive the tape.

END OF SECTION