

Water T&D Construction Standard

**SERVICE CONNECTION - DIRECT TAP, 3/4" & 1", ON
POLYETHYLENE ENCASED DUCTILE IRON WATERMAIN**

APPLICATION: 3/4" and 1" service connections.

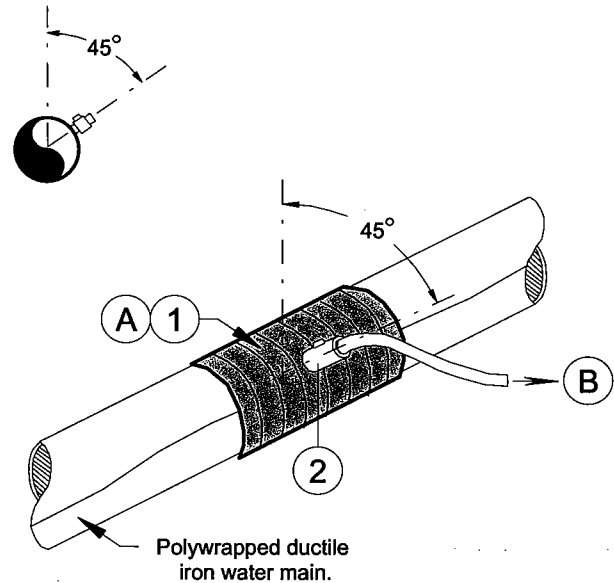
LBWL requires the "preferred method" be used when making direct taps in ductile iron and gray-iron water main. As stated in AWWA C600, the "preferred method" of tapping polyethylene-encased ductile iron pipe consists of applying two or three wraps of polyethylene adhesive tape completely around the pipe to cover the area where the tapping machine and chain will be mounted. This method minimizes the possible damage to the polyethylene during the direct tapping procedure. After the tapping machine is mounted, the corporation stop is installed directly through the tape and polyethylene pipe encasement. After the direct tap is completed, the entire circumferential area shall be inspected for damage and repaired. Unrepaired damage to the polyethylene encasement, in the form of rips and tears, may result in accelerated corrosion of the water main.

INSTALLATION NOTES

- Typical service stub is 1" Dia. copper.
Other sizes may be specified when required

(A) Apply two to three layers of polyethylene adhesive tape around the pipe, directly over the polywrap. The width of the taped area should be several inches wider than the mounting area for the tapping machine chains. Set-up the tapping machine directly over the taped off area being careful not to tear any of the surrounding polywrap. Adjust the tapping machine to an approximate angle of 45° (two o'clock or ten o'clock - approximately). Tap directly through the polywrap.

(B) Refer to LBWL Standard W-03-0015 & W-03-0020 for service stub installations.



MATERIALS			
REF	ITEM NO.	QTY	DESCRIPTION
①	non-stock	1 Roll	Tape, Polyethylene
②	30-03123	As	Corp stop 3/4" CC x 3/4" CTS comp.
	30-03446	Req'd	Corp stop 1" CC x 1" CTS comp.

Director of Engineering AK Wood P.E. Date: 3/14/05
 Manager, Water T&D Resource Center B. McLeod Date: 3/15/05