

**SECTION 02230  
MISCELLANEOUS PIPE AND FITTINGS**

A. Plugs and Caps

All dead ends on new mains shall be closed with plugs or caps suitably restrained to prevent blowing off under test pressure. A valve shall precede the plug or cap and shall be restrained against blowing off.

B. Fittings

Pipe fittings shall be Class 150 psi Ductile Iron fittings with Tyton push-on joints and cement lining as described and manufactured in accordance with ANSI/AWWA C110/A21.10 or C153/A21.53. Fittings sizes 3-inch to 24-inch shall have boltless connections with Tyton joint ends with Field Lok Gaskets. Mechanical joint fittings will not be allowed. Solid sleeves with Mechanical Joint ends are required when necessary.

C. Sample Tap Assembly

Sample tap assembly shall be constructed as specified and shown on Figure 2 — "Typical 1" Type "K" Copper Pipe Sample Tap."

D. Temporary Flush-Out Assembly

2-inch galvanized steel pipe and fittings, as detailed in the installation of a temporary flushout (Section 02231).

E. Tapping Sleeves

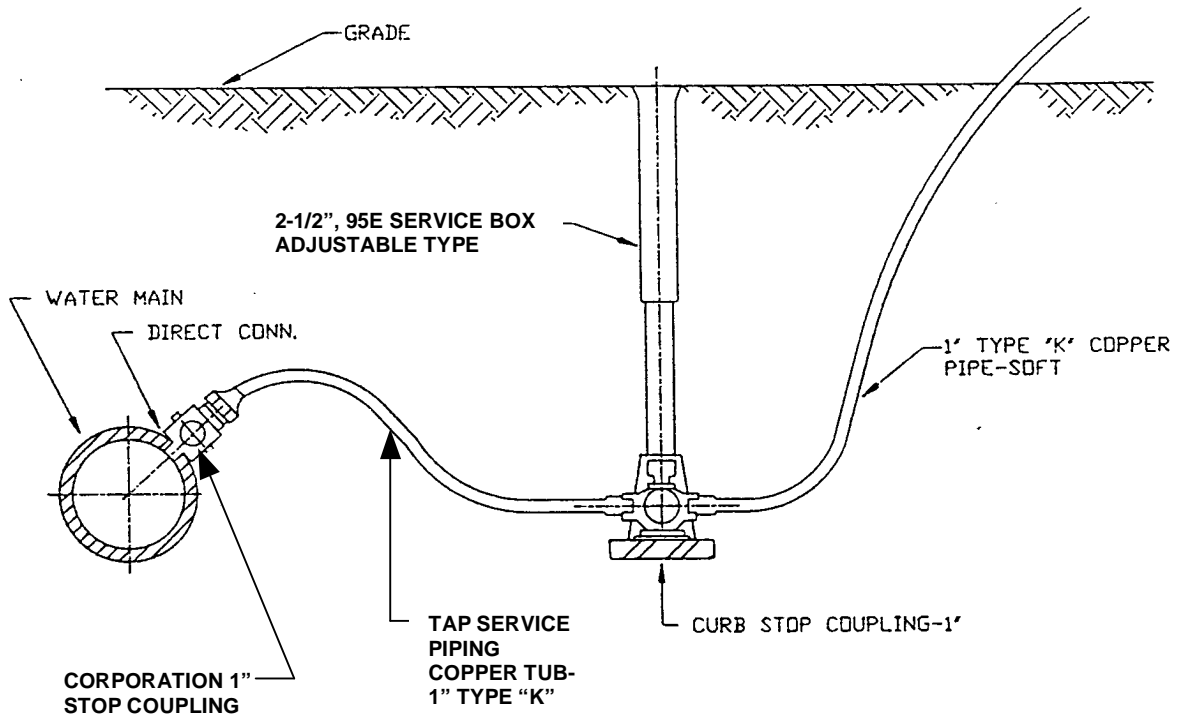
The Valparaiso City Utilities or its Contractor shall provide stainless steel sleeve for tapping existing water main. In addition, the outlet flange shall be rated to match the new main installation. Furthermore, the Valparaiso City Utilities shall coordinate requirements of tapping sleeves with tapping valves with stainless steel bonnett bolts and other fittings as required.

F. Connections to Existing System

The Valparaiso City Utilities or its Contractor shall install all connections to the existing Valparaiso City Utilities system.

END OF SECTION

# CONSTRUCTION STANDARD



**TYPICAL 1" TYPE "K" COPPER PIPE SAMPLE TAP**

**FIGURE 2**