

**ITEM 663.0601 25 - FURNISH AND INSTALL HARNESSED JOINTS ON EXISTING  
WATER MAINS**

**1. DESCRIPTION**

- 1.01 This work shall consist of furnishing and installing harnessing on joints of the existing water mains, where required by the work to be done, and as directed by the Engineer.

**2. MATERIALS**

- 2.01 Joints shall be harnessed by using Series 1 100HX Split Megalugs as manufactured by EBAA Iron Sales, Inc. or approved equal. Harnessing across each joint shall be accomplished by no less than 8 rods at 3/4-inch diameter. The configuration of the rods shall be as recommended by the manufacturer as required by the dimensions of the existing pipe joint being harnessed.

**3. CONSTRUCTION DETAILS**

- 3.01 As specified in the proposal under "Water Mains and Appurtenances".
- 3.02 The harnessing shall be installed in accordance with the recommendations of the manufacturer.
- 3.03 Prior to subjecting an existing pipeline on which the joints have been harnessed to any pressure that will cause thrust, the pipeline shall be completely backfilled as accepted by the Engineer.

**4. METHOD OF MEASUREMENT**

- 4.01 This work will be measured as the number of existing joints harnessed satisfactorily as ordered by the engineer.

**5. BASIS OF PAYMENT**

- 5.01 The unit price bid per harnessed joint shall include the cost of furnishing all labor, materials, and equipment necessary to satisfactorily complete the work per joint. Excavation and backfill shall be paid for as specified in the proposal under "Water Mains and Appurtenances".
- 5.02 Progress payments will be made at the unit price bid for 80 percent of the quantity installed. The remaining 20 percent will be paid for when the hydrostatic testing and disinfection of the system have been completed.