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# **11 Measurement of Pipe Items**

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**Pipe Measurement**

**Tees, Stub-Tees, and Wyes**

**Elbows**

**Other Connections**

**Anchors**

**Pipe End Sections and Safety Metal Sections**

**Grated Box End Sections**

# **CHAPTER ELEVEN:**

## ***MEASUREMENT OF PIPE ITEMS***

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### **PIPE MEASUREMENT**

Pipes are paid for by the linear measurement as specified in Section 715.11 and measured from outside of manhole to outside of manhole. For pipes connecting to inlets and catch basins, the pipes are also measured to the outside face of the structure.

### **TEES, STUB-TEES, AND WYES**

Tee, Stub-Tee, and Wye connections are measured along the centerline of the barrel. For making the connection, an additional 5 ft of the smaller pipe size is paid.

### **ELBOWS**

Elbow connections are measured along the centerline of the elbow. An additional payment of 2 ft is allowed for each elbow connection.

### **OTHER CONNECTIONS**

Other connections, such as size reducers, are measured for length and paid as the larger diameter pipe size specified.

### **ANCHORS**

Pipe anchors are paid as each for the size. The reinforcing steel and/or straps are to be included in other costs.

### **PIPE END SECTIONS and SAFETY METAL SECTIONS**

Pipe end sections, metal or precast concrete, and safety metal end sections are paid for each according to the diameter of the pipe the sections connect to. This is because 15 in. metal end sections are required to fit a 12 in. concrete pipe.

### **GRATED BOX END SECTIONS**

Grated box end sections are paid for each, by the size, slope, and type specified.