

Suggested Forming Instructions for R-4999 Frame and Grate/Lid

Bolted Units

Bolted frames and grates are furnished assembled and, therefore, require different forming procedures from unbolted units. Do check that the 3/16" maximum gap has not changed in transport. Details and suggestions are based on the Neenah Foundry Type B Frame.

Forming Procedures

Pour the floor slab of the trench according to the plans and specifications. The width of the forming, (see Figure 1) measured from the outside edges of the forms, corresponds to the "C" dimension on Figure 2. During the entire forming procedure, verify that the forms are plumb, straight, solid and level.

The rebar shown in the vertical walls of the trench is for illustrative purposes only. Proper sizing and placement is the responsibility of the engineering firm providing the project design.

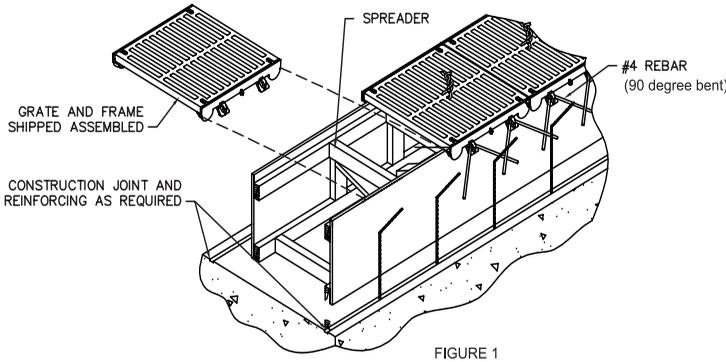
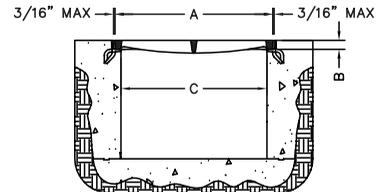


FIGURE 1



PARTIAL SECTION VIEW OF COMPLETED TRENCH INSTALLATION

FIGURE 2

When installing the frame and grate units on the forms (see figure 3). Keep the sections tight to one another to eliminate creep. When the sections are in the proper position, wire them to the bracing as show in Figure 4. Place a #4 rebar bent at 90° through the holes in the anchor lugs to provide proper anchorage in the concrete.

When concrete is cured, remove the grates, marking their position and orientation then strip the forms. Replace the grates/lids in the same location and with the same orientation as they came out. Bolts should be tightened to 15 foot-pounds. The completed installation should resemble figure 5.

General Comments

All frame sections are manufactured and furnished in standard 24" lengths. It is the responsibility of the installer to cut frame pieces to the proper length and miter corners where applicable. In cases where trench direction must change, special drawings will be furnished by our engineering services department. These prints will show special lengths and cuts of grates/lids and other essential information.

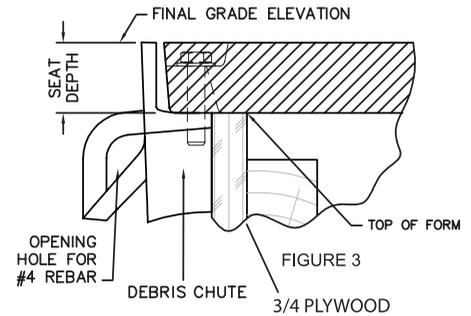


FIGURE 3

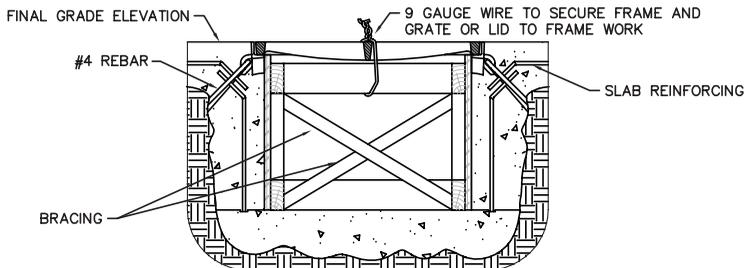


FIGURE 4

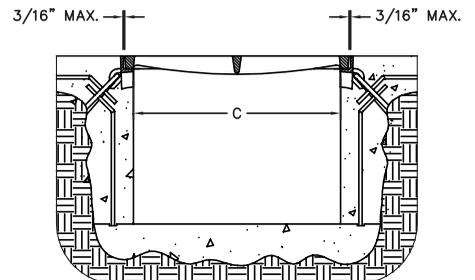


FIGURE 5

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