Traps for island sinks and similar equipment shall be roughed in above the floor and may be vented by extending the vent as high as possible, but not less than drain board height. The vent is then returned downward and connected to the horizontal sink drain immediately downstream from the vertical fixture drain. Figure 1 illustrates the construction of the completed island venting system.

The returned vent shall be connected to the horizontal drain through a wye branch fitting, (see "b" in FIGURE 1) and shall in addition be provided with a foot vent taken off the vertical fixture vent by means of a wye branch fitting immediately below the floor. This foot vent extends to the nearest partition and thence through the roof to the open air, or may be connected to other vents at a point not less than six (6) inches (152.4 mm) above the flood level rim of the fixture served. (See Figure 1).

Drainage fittings shall be used on all parts of the vent below the floor line. This includes fittings noted as a,b,c, and d in Figure 1. The foot vent shall maintain a minimum slope of one-quarter(1/4) inch per foot back to the drain. The return bend used under the drain board shall be a one piece fitting, or an assembly of 45°, 90°, and a 45° elbow in the order named. Pipe sizing shall be as elsewhere required in the Code. Figure 1 shows the minimum pipe sizes required.

Special venting for island fixtures is a method for venting a fixture in an isolated location where vent pipes installed as normally required in UPC Chapter 9 would not be practical.

The specific method for developing Figure 1 was closely detailed and explained because too often plumbers and inspectors allow incomplete island venting to be installed. The installation of the required foot vent with its termination above the roof or properly connected to other vents is inseparable to the completed system. Figure 1 is the Code accepted method, and includes all of the necessary elements.

FIGURE 1: Special Venting for Island Fixtures

Ron Thompson, Building Official
DATE: February 9, 2006
(Ref. 97-03, 00-03)