Volume Information:

Assuming total surface runoff areas, areas that are impermeable (don't allow water to penetrate, such as pavement or roof), the potential storage under the garden in the drainage trench, and a rain event that is equal to or less than 90% of storms in Omaha (1.17 inches), the calculated design volume to the rim of the north cell of the garden is 3,456 gallons.

The north cell (red drainage area) was filled on October 3rd with a volume of 2,468.4 gallons. The discrepancy between design volume and actual volume on October 3rd likely occurred because 1) the garden was not filled to rim capacity for the event, and 2) the soil and underdrain were still saturated from previous heavy rains, so less capacity was available under the garden surface.