INSTRUCTION SHEET
FOR MISSOURI STANDARD DRAWINGS
29–N–625

1. Use Construction Specification 750, Reinforced Concrete. Add to additional details.

   a. Grade of steel and Splice Length of steel reinforcement shall be as shown on drawings.

   b. The design mix shall have a 28 day compressive strength of 4000 psi.

2. Select size of tank needed. Provide extra storage as required by Waste Storage Facility Practice Standard 313.

3. If site is located below water table then a sand drain beneath slab floor may be needed to prevent flotation. A geotextile is shown between concrete slab and sand to prevent cement from penetrating drainfill. When a drain is not needed beneath floor slab, cross out the sketch shown on page 3.

4. Floor Quantities shall be computed by:

   D_F = Floor Diameter = Tank Diameter $- \frac{2B}{12} + \frac{2C_{ext}}{12} + \frac{2 \text{ wall thickness}}{12}$

   A_{F1} = Floor Area $= \frac{\pi}{4}(D_F)^2 =$ _____ ft

   Floor Volume = Floor Area $\times \frac{5}{12} \times \frac{1}{27} =$ _____ cu. yds.

5. Footing Quantities shall be computed by:

   A_{FO} = Footing Area $= \frac{\pi}{4}\left[\left(D_F + \frac{2B}{12}\right)^2 - \left(D_F^{\,2}\right)\right] =$ _____ $ft.^2$

   Footing Volume = $A_{FO} \times \frac{h_f}{12} \times \frac{1}{27} =$ _____ cu. yds.

6. Wall Quantities shall be computed by:

   D_a = Average Diameter = $D + \frac{t_w}{12} =$ _____ ft.

   L_w = Wall Length = πD_a = _____ Lin. ft.

   Wall Volume $= \frac{H \times t_w \times L_w}{12 \times 27} =$ _____ cu. yds.

7. Floor Steel Quantity:

   A_{Fl} x (Conversion Factor on Sheet 2) = _____ Lin. ft.

8. Footing Steel Quantity:

   Quantity of A_{S1} $= \frac{\pi D_a}{A_{S1} \text{ Spacing}/12} =$ _____ Bars

   Length of A_{S1} $= \frac{B - 6 \text{ inches}}{12} =$ _____ Lin. ft.

   Quantity of A_{S2} $= \frac{B - 6}{A_{S1} \text{ Spacing}/12} + 1 =$ _____ Bars

   Length per Bar = πD_a = _____ Lin. ft.

   Total Length = Quantity x Length = _____ Lin. ft.