

**GENERAL**

Construction operations shall be carried out in such manner and sequence that erosion and air and water pollution will be minimized and held within tolerable limits.

The completed job shall present a workmanlike appearance and shall conform to the lines, grades and elevations shown on the drawings or as staked in the field.

This plan set shows details for three (3) composting bins. This plan set is to be adapted for \_\_\_\_\_ bins and \_\_\_\_\_ extra storage bins.

This composting facility was designed to support a 16 psf wind load for Missouri. A 25 psf dead/snow load for Missouri was used.

All operations shall be carried out in a safe and skillful manner. Safety and health regulations shall be observed and appropriate safety measures used.

**FOUNDATION PREPARATION**

The foundation area shall be cleared of trees, logs, stumps, roots, brush, boulders, sod, debris, structures, fences and frozen soil. The topsoil and sod shall be stockpiled. After stripping, the foundation area will be prepared to assure bond with any required earthfill by removing loose, dry material, scarifying, disking, adjusting moisture and compacting as necessary.

**MATERIALS**

All lumber will be southern pine grade #2 or better. Lumber shall be kiln dried to 19% moisture content or drier. Except for rafters, purlins, cross braces and knee braces, all lumber will be pressure treated for ground contact.

Nails, bolts, washers, nuts and framing anchors shall be electrodeposited zinc or cadmium coated.

Roofing will be 29 gauge steel, corrugated and galvanized with 100 nails/100 sq. ft. Metal screws normally used for attaching metal roofing may be used in lieu of nails.

The concrete shall conform to Missouri Construction Specification 750, Reinforced Concrete except it shall contain 6 1/2 bags of cement per cubic yard of concrete.

All gravel shall meet MODOT standards for size and gradation as specified on the plans or equivalent as approved by Engineer.

**INSTALLATION**

The concrete floor shall be placed on a firm foundation to the lines and grades shown on the drawings. Installation shall be performed in a skillful and workmanlike manner. All lumber is to be fastened with 16d ring shank nails. Except as noted, all cross braces are to be attached to each post with a minimum of four nails or one bolt. Rafters are to be bolted to each post as shown for knee braces.

Knee braces are to be attached to both sides of the post and butt jointed underneath the rafters. The knee braces will be attached to the rafters with a gusset the same width and thickness as the knee brace.

The gussets will be attached to the knee braces with a minimum of seven nails (clinched) and butt jointed to the edge of the support post.

Purlins will be attached to rafters, on edge, with manufactured framing anchors. Purlin joints will be staggered over rafters and overlapped. They will be nailed together with two 10d common nails.

A concrete apron as shown on the drawings shall be installed in front of the composter unless otherwise shown. In the absence of a concrete apron, the area in front of the composter shall be compacted earth with a rock surface.

**VEGETATION**

All disturbed areas shall be graded and reseeded. Topsoil shall be added, if needed, to establish vegetation. Refer to JS-AGRON-25 or equivalent for seeding and mulching recommendations.

Date \_\_\_\_\_  
 Designed \_\_\_\_\_  
 Drawn \_\_\_\_\_  
 Checked \_\_\_\_\_  
 Approved \_\_\_\_\_

**SWINE COMPOSTING FACILITY  
 5' REINFORCED  
 CONCRETE STRUCTURE  
 CONSTRUCTION**



**DRAFT**  
 NOT FOR  
 CONSTRUCTION

File Name \_\_\_\_\_

Drawing Name  
**29-L-654**

Sheet \_\_\_\_\_ of \_\_\_\_\_