

CONSTRUCTION NOTES

1. Before construction begins contact the District Office for a preconstruction meeting. It is the landowner's responsibility to obtain all necessary permits and to maintain this structure in accordance to those regulations.
2. All materials and construction shall be in accordance with applicable NRCS standards and construction specifications.
3. All components of the completed system shall conform to the lines, grades, elevations, dimensions and materials shown on the plans.
4. Any changes in the plans or specifications must be approved by the original plan approver prior to being made. Changes are to be reviewed by the landowner for concurrence.
5. Prevent any sediment from leaving the construction site by installing a silt fence where appropriate.
6. Salvage topsoil and fill material and stockpile to use for final grading of the site.
7. Clear and grub all areas necessary for the construction of the structure.
8. Construct pad for structure. Fill material under the structure shall be placed in maximum 4-inch lifts (before compaction). The lifts shall be compacted by traversing of the entire surface by not less than one pass of the equipment or by a minimum of four complete passes with a sheepsfoot, vibrator, or tubular tire roller.
9. Construct Composting Facility in accordance with the plan. The finished floor elevation shall be a min. 2' above seasonal high water table.
10. Plywood shall be Ex. Structural I.
11. Perform final grading of the site. Place fill material around structure in maximum 4-inch lifts (before compaction). Compaction shall be performed in 4-inch lifts from the bottom of the structure up to other material placed on specific side of the structure. Backfill shall be kept approximately level around all parts of the structure.
12. Topsoil all disturbed areas using on-site salvaged topsoil. Apply lime and fertilizer according to specifications. Seed and mulch disturbed areas as specified. All disturbed areas to be stabilized within 14 days of completion.

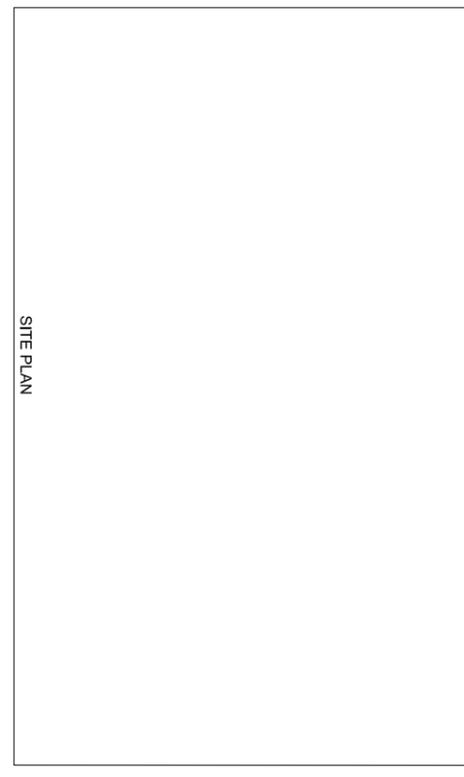
Concrete Construction Specifications

1. Concrete shall have Type I/A cement, 28-day compressive strength of 4,000 psi, 5% air entrainment and a slump of 3 to 5 inches. Air entrainment admixtures shall conform to ASTM C-260.
2. Reinforcing steel shall conform to ASTM A-615, Grade 60 steel. All reinforcing material shall be free of dirt, loose rust, scale, oil, paint or other coatings. The steel shall be accurately placed into position, as shown on the plans, and securely restrained and blocked into position with brick, block or metal chairs prior to placement of concrete. Insertion of steel into fresh concrete is not permitted. All reinforcement steel splices shall overlap a minimum of 18 inches. Welded wire fabric shall conform to ASTM A-185 and overlap a minimum of 6 inches. Construction Joints shall be installed in concrete at a minimum of 30' spacing.
3. Waterstop will be used as shown on the plans and at all cold and construction joints. The type of waterstop will be approved by the field technician prior to use.
4. Plasticizing or plasticizing and retarding admixtures may be used and shall conform to ASTM specification C-1017.
5. Concrete shall be delivered to the site and discharged completely into the forms within 90 minutes after the introduction of cement to the aggregates. This time shall be reduced to 45 minutes when the atmospheric temperature is over 90° F. The concrete shall be maintained at a temperature below 90° F during mixing, conveying and placement. Set retarding admixtures may be used to increase mixing time. Water reducing and/or retarding admixtures shall conform to ASTM specification C-494 Types A, B, D, F or G.
6. Concrete shall not be placed when the daily minimum atmospheric temperature is less than 40° F unless facilities are provided to prevent the concrete from freezing. The concrete shall be kept at a temperature of 5° F for a minimum of 3 days. The use of accelerators or antifreeze compounds will not be allowed.
7. Concrete shall be kept continuously moist for the curing period after the placement of the concrete. Moisture may be applied by spraying or sprinkling as necessary to prevent the concrete from drying. Concrete shall not be exposed to freezing during the curing period. Curing compounds may be used in lieu of the application of moisture. Curing compounds shall conform to ASTM C-309, type 2.
8. Concrete surfaces shall be screeded, floated, troweled and broom finished unless otherwise approved.
9. Defective concrete, honeycombed areas, voids left by the removal of the rods, rebar or all concrete surfaces permanently exposed to view or exposed to view shall be repaired immediately after the removal of the forms. All voids shall be repaired and completely filled with quick-set, non-shrink hydraulic cement.

RED-LINE CERTIFICATION

PROJECT MEETS NRCS STANDARDS AND SPECIFICATIONS

SIGNATURE _____ DATE _____



Design Note:

A site-specific design, in addition to the pre-qualified drawing is required. The site-specific design shall include a location map, plan view, dimensions, soil conditions, high water table, drainage components, and construction specifications needed to complete the project.

Number of Bins Required Based on the # of Birds		
# of Bins	# of Breeders/Roasters Up to	# of Broilers Up to
2	38,400	48,000
4	76,800	96,000
6	115,200	144,000
8	153,600	192,000
10	192,000	240,000
12	230,400	288,000

Note: Sizing Chart is based on Chapter 10 Ag Waste Handbook
VF=1.75



TIMBER CONSTRUCTION NOTES

1. All lumber below the fascia board level shall be preservative pressure treated Southern Yellow Pine No. 2 KD 19% m.c. or better. All other lumber may be either Southern Yellow Pine or Spruce-Pine-Fir, No. 2 or better unless specified otherwise. Protection such as clear preservative, paint, or pressure treatment shall be required for the plywood. Timber shall be pressure treated in accordance with the chart below.

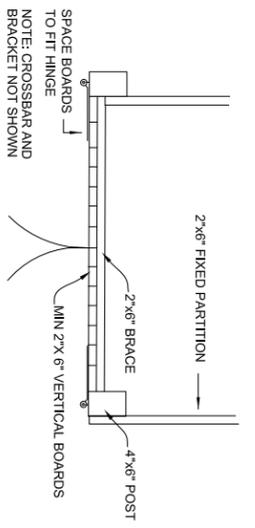
Use Codes for Treated Building Materials	Use Code for Ground or Manure Contact	UC-4B
Use Code for All Other Treated Lumber		UC-4A

2. All metal hardware and nails shall be stainless steel or hot-dip galvanized (HDG). Stainless steel shall be grade types 304 or 316. Hot dipped galvanized fasteners shall conform to ASTM A 153 and hot-dip galvanized connectors shall conform to ASTM Standard A 653 (Class G-185). There may be additional products (other than stainless steel and hot-dip galvanized) which are suitable for use in treated wood. These steels and connectors have proprietary anti-corrosion technologies and are acceptable for treated wood exposed to moisture when used according to the hardware manufacturer's recommendations and must be clearly marked "for use with the type of treated wood being used."
3. All structural nail connectors must be nailed with twisted or ring shank nails.
4. Power driven nails (PDN) shall be 0.131 Diameter or larger, deformed shank, and helical (spiral) or annular (ring) type. The number and length of 0.131 diameter power driven nails is specified in parenthesis next to each connection. Pressure shall be applied to wood members to insure tight joints when using power driven nails. The head of the nail may not be countersunk more than 1/16" into the wood.

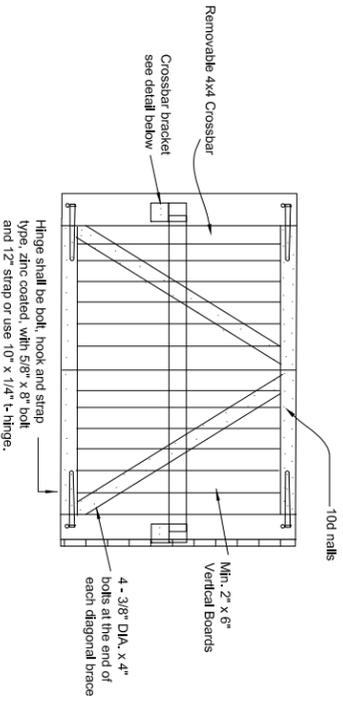
Guttering Notes

1. Downspout outlet connections shall be the manufacturer's performed (insert) outlets for the given size shown on the design, unless otherwise approved.
2. Aluminum gutters and downspouts shall have a minimum thickness of 0.027 inch.
3. Galvanized steel gutters and downspouts shall have a minimum thickness of 28 gauge.
4. Where animals or equipment may come in contact with downspouts, steel pipe, schedule 40 PVC, or similar material will be used for the downspout.
5. Roof gutter supports shall have a maximum spacing of 24 inches unless otherwise approved. Roof gutters shall be mounted to the fascia board using hidden hangers, bolts and ferrules, gutter screws and ferrules, or cradles. The engineer must approve other methods. **SPIKE AND FERRULES ARE NOT APPROVED.**
6. Itemized invoices from the suppliers shall be provided to verify gutter and downspout size, length, material, material gage, and hanger type.

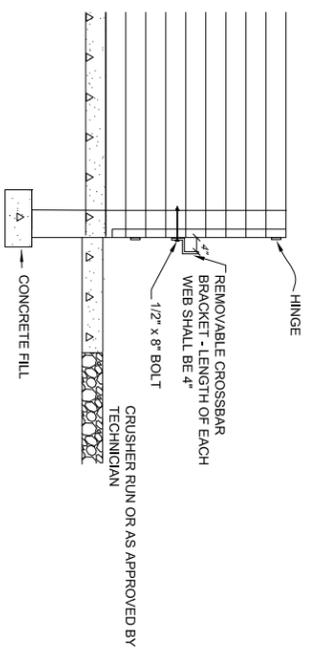
<p>NRCS Natural Resources Conservation Service United States Department of Agriculture</p>	<p>LANDOWNER BIN COMPOSTER ATTACHED W/ OPTIONAL PUSH WALL Address _____ City, Maryland</p>	<p>Designed MM/YY Drawn _____ Checked _____</p>						
	<p>Maryland Department of Agriculture Soil Conservation District</p>	<p>Approved _____ Date _____ Title _____ Job Class _____</p>						
<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>Date</th> <th>Description</th> <th>Approved</th> </tr> </thead> <tbody> <tr> <td>4/10</td> <td>Timber Construction Notes Changed</td> <td>AHS</td> </tr> </tbody> </table>	Date	Description	Approved	4/10	Timber Construction Notes Changed	AHS	<p>File No. _____ DWG _____</p>	<p>Sheet 1 of 2</p>
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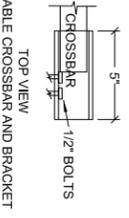
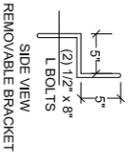
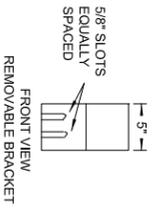
OPTIONAL BIN GATE
NOT TO SCALE



OPTIONAL BIN GATE
NOT TO SCALE



OPTIONAL BIN GATE
SIDE VIEW
NOT TO SCALE



OPTIONAL BIN GATE
CROSSBAR BRACKET
NOT TO SCALE

Designed	MM/YY
Drawn	
Checked	

LANDOWNER
BIN COMPOSTER ATTACHED W/ OPTIONAL PUSH WALL
Address City, Maryland

Approved _____ Date _____
Title _____ Job Class _____

Maryland Department of Agriculture
Soil Conservation District



REVISIONS		
Date	Description	Approved