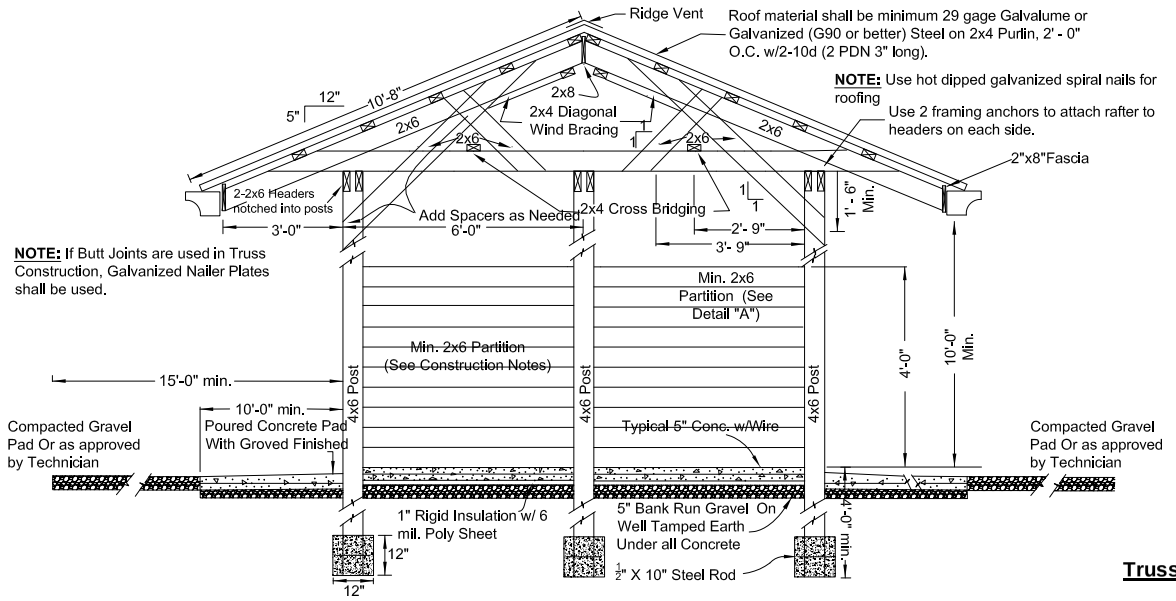
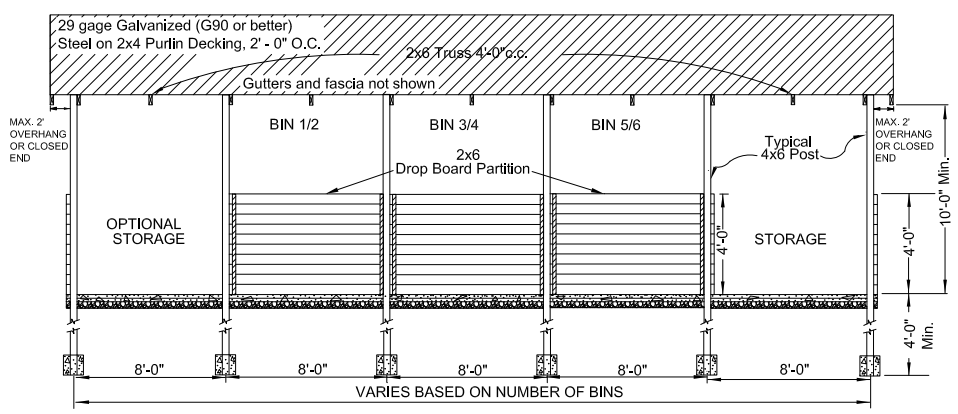


SECTION Y-Y
Not to Scale



SECTION Z-Z W/ ROOF
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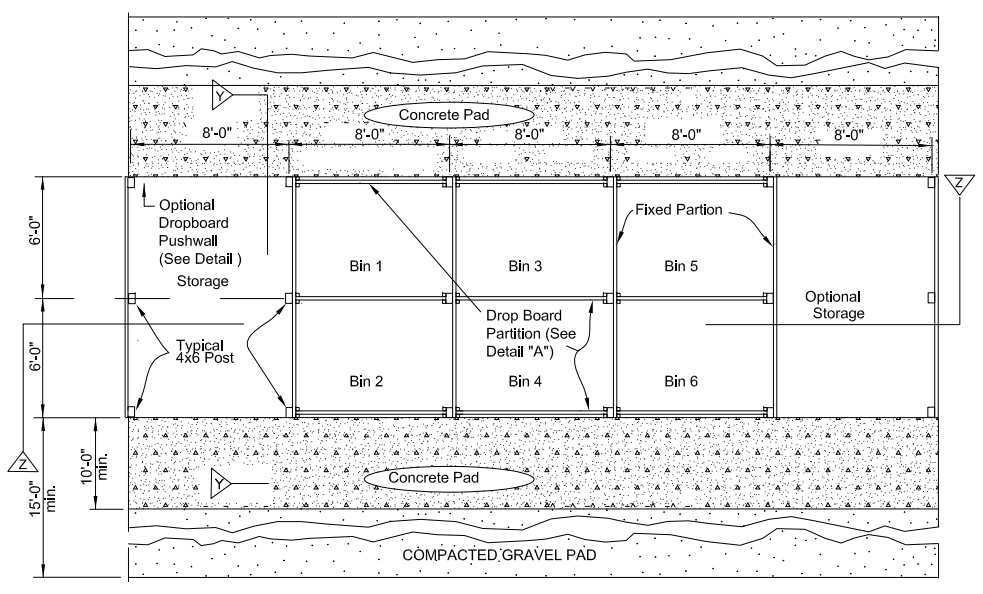


PLAN VIEW
Not to Scale

NOTE: Roofing material must be stored properly in accordance with the manufacturer's recommendations. Roofing material must be covered if it is stored outside to prevent premature deterioration.

Truss Design Notes (OPTIONAL)

Trusses shown on the drawings are for illustration purposes only. Trusses shall be designed and approved by a licensed engineer. Truss manufacturer shall furnish all drawings for bracing required on trusses. Scissors trusses are acceptable with a level bearing plate.

Truss Design:
Span: 12' – 0"
Truss Spacing: 4' 0" on center
Overhang: 3' - 0"
Gable end trusses shall be sheathed

Truss Loadings

Garrett, Allegany, and Washington counties:

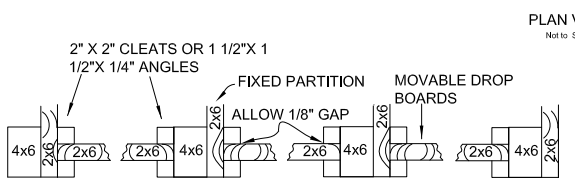
Top chord Live Load 28 psf, Dead Load 5 psf
Bottom chord Live Load 0 psf, Dead Load 5 psf

Frederick east to Harford counties including southern Maryland counties:

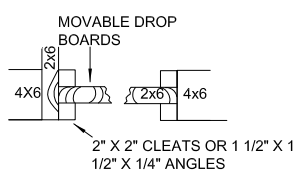
Top chord Live Load 21 psf, Dead Load 5 psf
Bottom chord Live Load 0 psf, Dead Load 5 psf

Cecil county and Eastern Shore counties:

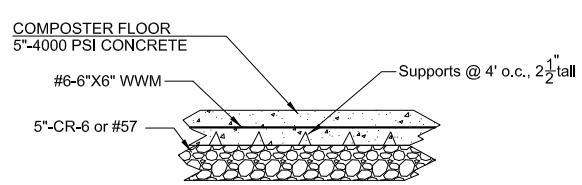
Top chord Live Load 16 psf, Dead Load 5 psf
Bottom chord Live Load 0 psf, Dead Load 5 psf



DROP BOARD GATE DETAIL "A"
NOT TO SCALE



OPTIONAL PUSH WALL
NOT TO SCALE



COMPOSTER FLOOR DETAIL
DETAIL "D"
NOT TO SCALE

"The Soil Conservation District makes no representation as to the existence or Non-existence of any utilities at the construction site. Shown on these construction drawings are those utilities which have been identified. It is the responsibility of the landowners or operators and contractors to assure themselves that no hazard exists or damage will occur to utilities"

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 8-inch lifts (before compaction). The lifts shall be compacted by traversing of the entire surface by not less than one track of the equipment or by a minimum of four complete passes with a sheepsfoot, vibratory, or rubber 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 Ext. 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 at the optimum moisture content with hand tampers or other manually directed compaction equipment. 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 IIA 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 90^0 F. The concrete shall be maintained at a temperature below 90^0 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 40^0 F unless facilities are provided to prevent the concrete from freezing. The concrete shall be protected from freezing for a minimum of 7 days or the concrete shall be kept at a temperature of 55^0 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 tie rods, ridges on all concrete surfaces permanently exposed to

SITE PLAN

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		

RED-LINE CERTIFICATION

PROJECT MEETS NRCS STANDARDS AND SPECIFICATIONS

SIGNATURE DATE

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	UC4B
Use Code for All Other Treated Lumber	UC4A

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 screws 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 connections 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 then 1/16" into the wood.

Guttering Notes

1. Downspout outlet connections shall be the manufacturer's preformed (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 gage.
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.

Designed MM/YY
Drawn
Checked

Approved _____ Date _____
Title _____ Job Class _____

LANDOWNER
STAND ALONE BIN COMPOSTER
City, Maryland
Address

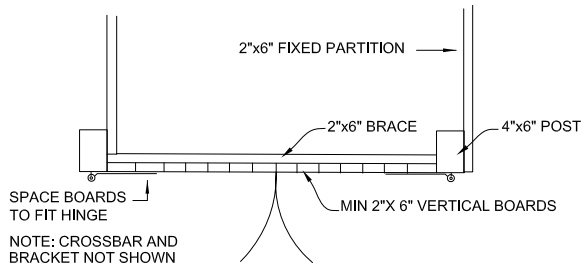
Maryland Department of Agriculture
Soil Conservation District

NRCS
Natural Resources Conservation Service
United States Department of Agriculture

REVISIONS		
Date	Description	Approved
4/10	Timber Construction Notes Changed	AHS

File No.
.DWG

Sheet 1 of 2



OPTIONAL BIN GATE
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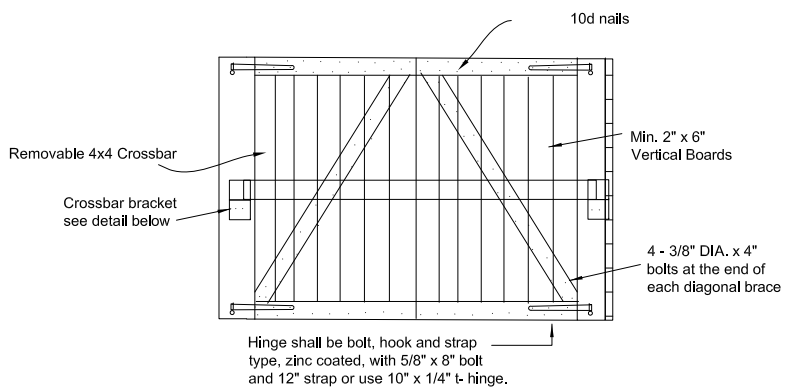

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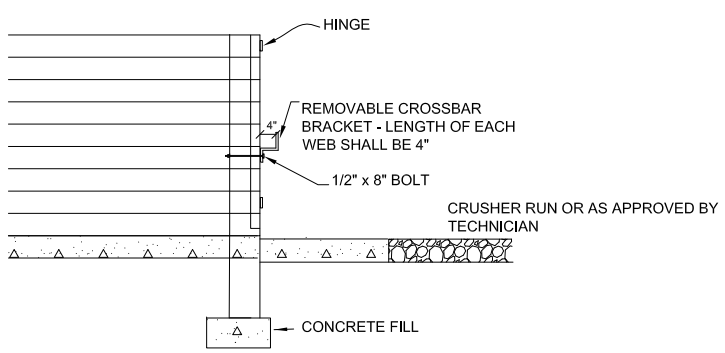
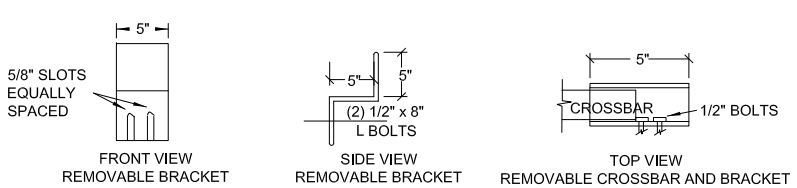


OPTIONAL BIN GATE
SIDE VIEW

NOT TO SCALE



OPTIONAL BIN GATE
CROSSBAR BRACKET
NOT TO SCALE

Designed MM/YY
Drawn
Checked

LANDOWNER
STAND ALONE BIN COMPOSTER
City, Maryland
Address

Approved _____ Date ____
Title _____ Job Class ____

Maryland Department of Agriculture
Soil Conservation District

NRCS
Natural Resources Conservation Service
United States Department of Agriculture

REVISIONS

Date	Description	Approved

File No.
.DWG

Sheet 2 of 2