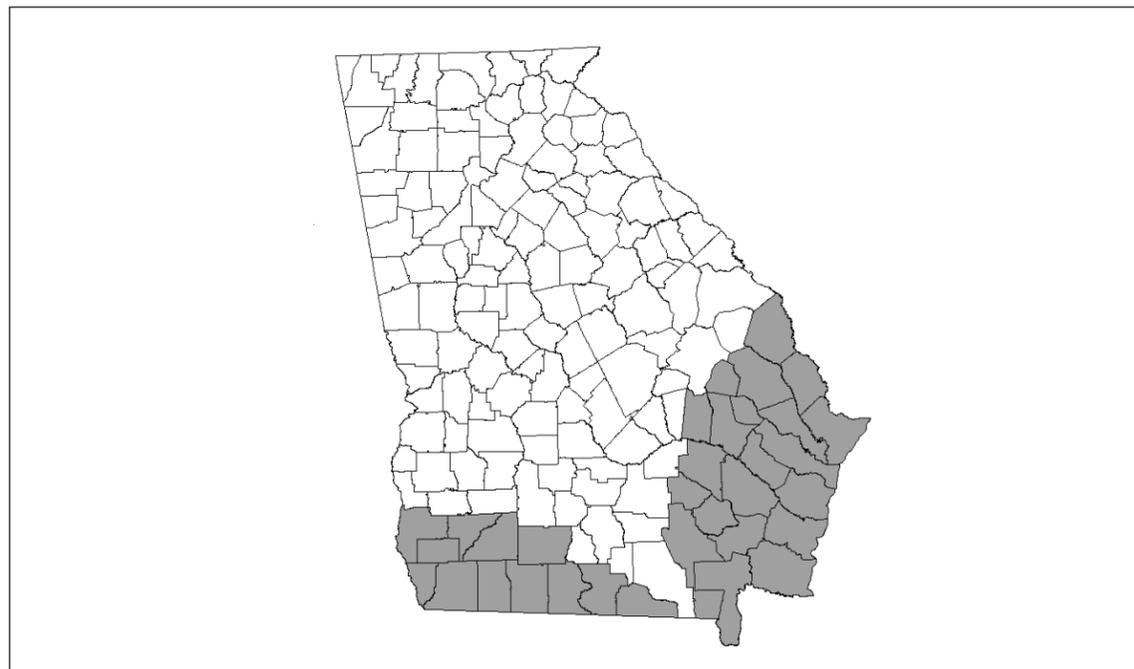


**UNITED STATES DEPARTMENT OF AGRICULTURE  
NATURAL RESOURCES CONSERVATION SERVICE**

**GEORGIA STANDARD DRAWINGS - 20' WIDE, DEEP BIN, STAND  
ALONE COMPOST FACILITY CONSTRUCTED WITH 6" X 6" POSTS**

1. THE FOLLOWING DRAWINGS WERE PREPARED IN ACCORDANCE WITH PRACTICE CODE 317-COMPOSTING FACILITY AND GEORGIA BUILDING CODE (INTERNATIONAL BUILDING CODE 2006)
2. DESIGN DATA REQUIRED BY IBC 2006:
  - A) ROOF LIVE LOAD - 19 PSF.
  - B) BASIC WIND SPEED OF 90 MPH AND GROUND SNOW LOAD OF 10 PSF OR BASIC WIND SPEED OF 100 MPH AND NO SNOW LOAD.
  - C) IMPORTANCE FACTOR, I=0.87
  - D) WIND EXPOSURE CATEGORY C.
  - E) INTERNAL PRESSURE COEFFICIENT = 0.55
3. THIS DESIGN IS NOT INTENDED FOR USE IN EXTREME SOUTH AND EAST COUNTIES OF THE STATE THAT ARE SUBJECT TO HURRICANE WIND LOADS (SEE MAP BELOW)
4. THIS DESIGN IS NOT INTENDED FOR CONSTRUCTION ON AN ISOLATED HILL, RIDGE, OR ESCARPMENT IN ANY REGION OF THE STATE.
5. ANY CHANGES TO THESE DRAWINGS MUST BE APPROVED BY AN ENGINEER WITH JOB APPROVAL LEVEL IV OR GREATER.



THIS DESIGN IS NOT INTENDED FOR USE IN COUNTIES SUBJECT TO HURRICANE WIND LOADS SHADED GRAY ABOVE.

\_\_\_\_\_ **COMPOST FACILITY**  
 \_\_\_\_\_ **COUNTY, GEORGIA**

CERTIFICATION:

THE \_\_\_\_\_ COMPOST FACILITY WILL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING DRAWINGS AND PRACTICE CODE 317. ALL CHANGES HAVE BEEN APPROVED BY AN ENGINEER WITH JOB APPROVAL AUTHORITY LEVEL IV OR GREATER. ALL ADDITIONS HAVE BEEN APPROVED BY NRCS.

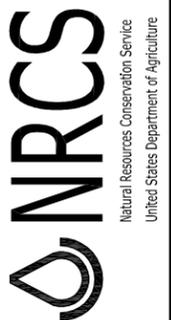
OWNER	DATE	NRCS REPRESENTATIVE	DATE	ENGINEER (IF REQUIRED)	DATE
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INDEX TO DRAWINGS:

- SHEET 1 - COVER SHEET
- SHEET 2 - PLAN VIEW  
ELEVATION VIEW  
FRONT VIEW  
GENERAL NOTES
- SHEET 3 - ROOF FRAMING PLAN
- SHEET 4 - GIRDER AND RAFTER TO POST CONNECTIONS  
HURRICANE STRAP  
HURRICANE CLIP
- SHEET 5 - WOOD TREATMENT TABLE  
FIBER REINFORCED CONTRACTION JOINT  
CONCRETE POST FOOTING DETAIL  
MECHANICAL ANCHOR POST CONCRETE FOOTING DETAIL  
STANDARD BIN FRONT - TOP VIEW

Designed	W. Brown	Date	10/07
Drawn	S. Rogers		
Checked	H. McFarland		
Approved	J. Holloway		

GEORGIA COMPOSTING FACILITY  
 16' Stand-Alone Structure  
 County, GA



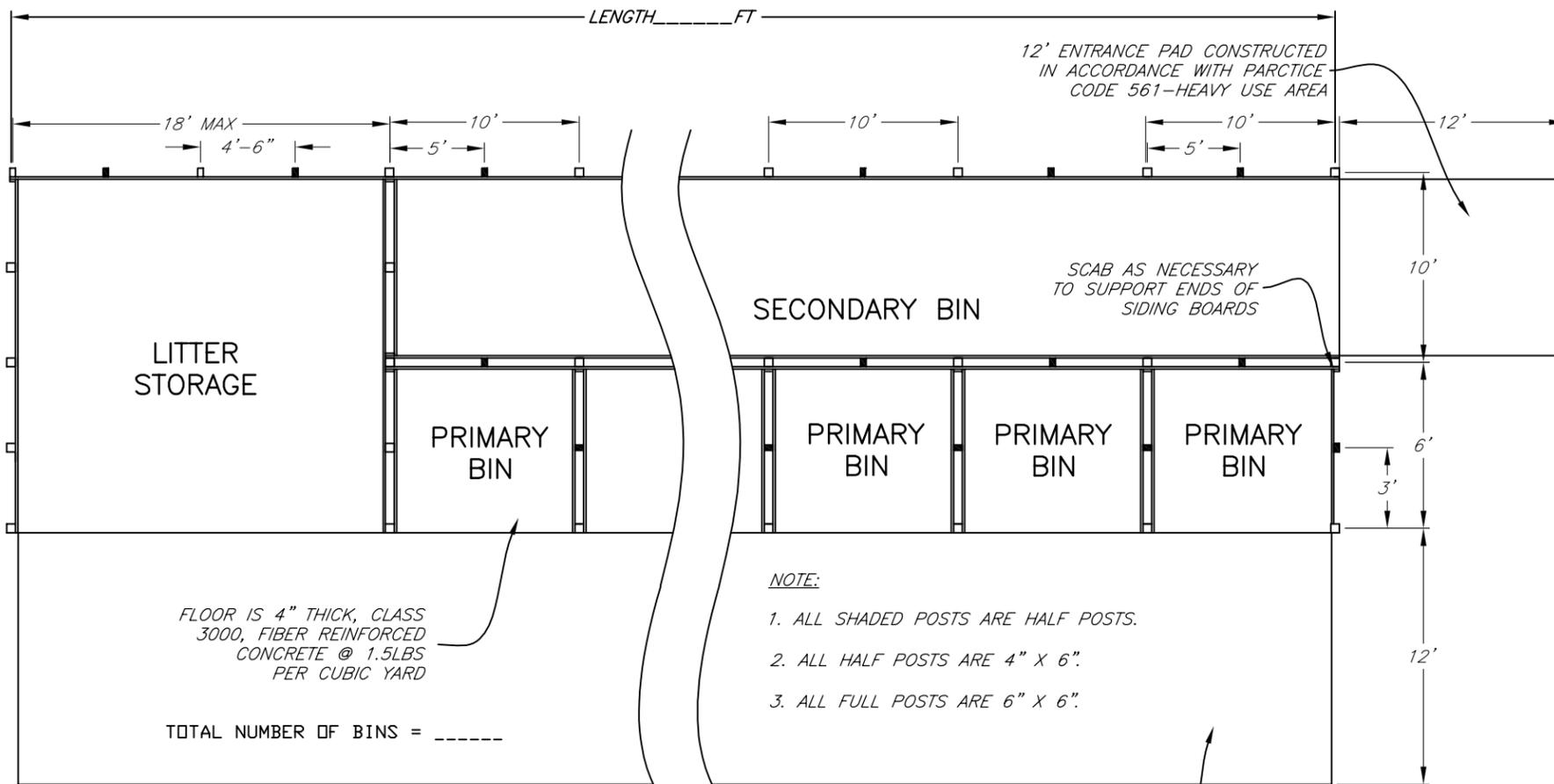
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Drawing No.  
Cover

REVISIONS			
DATE	APPROVED	TITLE	
09/05	H. MCFARLAND	STATE ENGINEER	
10/07	H. MCFARLAND	STATE ENGINEER	

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Sheet 1 of 5

**THE NATURAL RESOURCES CONSERVATION SERVICE  
HELPING PEOPLE HELP THE LAND.**



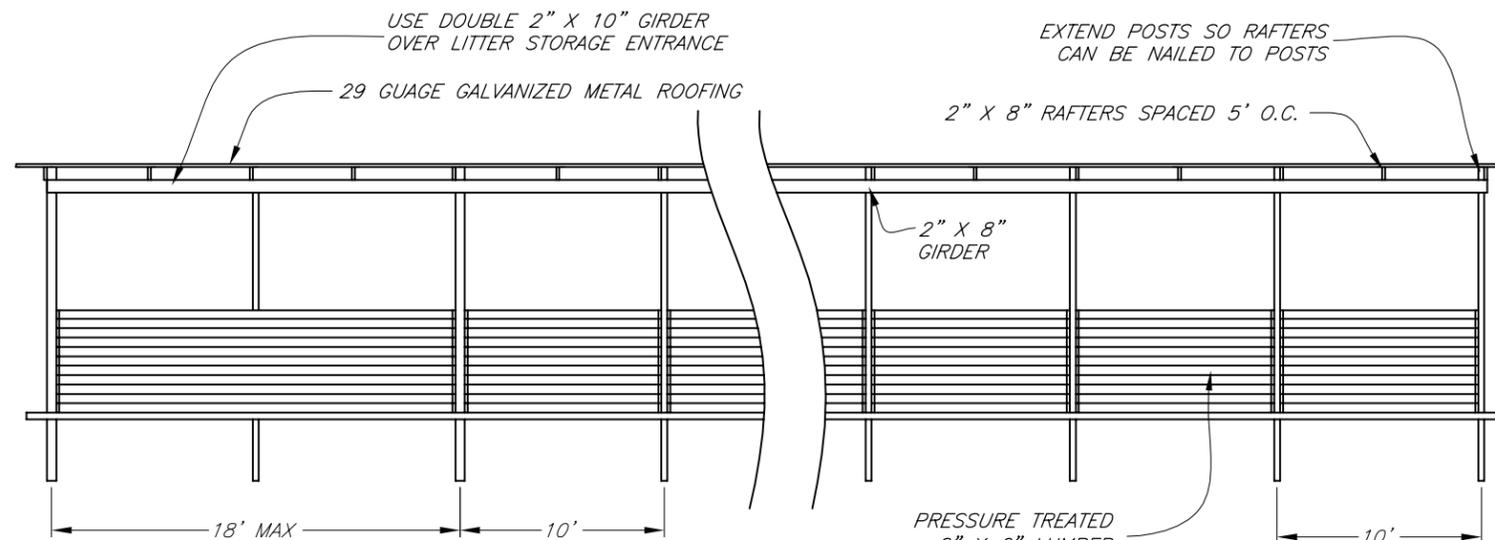
CONCRETE QUALITY:

(1) FLOOR \_\_\_\_\_CY

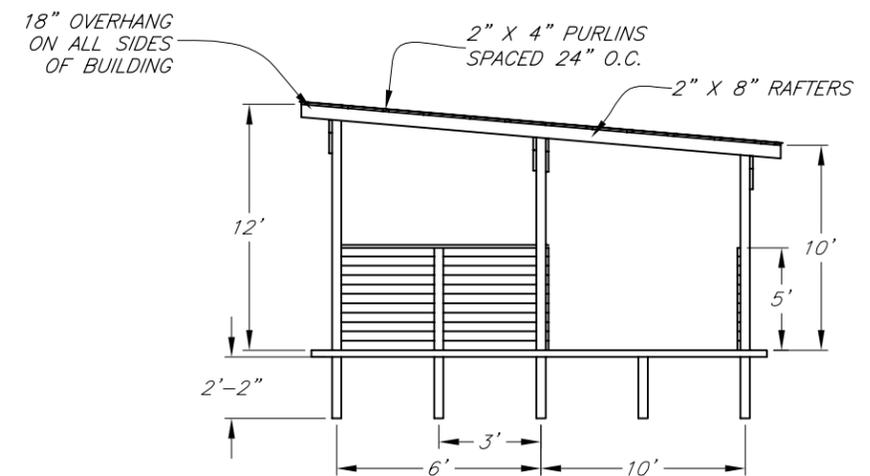
(2) POST HOLES \_\_\_\_\_CY

(3) ENTRANCE PAD \_\_\_\_\_SQFT

**PLAN VIEW**



**FRONT VIEW**



**ELEVATION VIEW**

**NOTES:**

1. ALL ENTRANCE AREAS SHALL BE STABILIZED USING PRACTICE STANDARD 561 - HEAVY USE AREA.
2. ALL POSTS SHALL BE SET IN CONCRETE WITH CONCRETE OR GRAVEL FOOTING PAD (SEE CONCRETE POST FOOTING DETAIL ON SHEET 5).
3. THE BUILDING SITE SHALL BE CLEARED AND GRUBBED AS REQUIRED. PROPER DRAINAGE SHALL BE PROVIDED AROUND THE ENTIRE BUILDING SO THAT RUNOFF WATER DOES NOT ENTER OR POND NEAR BUILDING. DESIGN FOR ROOF RUNOFF IN ACCORDANCE WITH PRACTICE CODE 558 - ROOF RUNOFF MANAGEMENT OR STABILIZE SOIL AROUND BUILDING USING PRACTICE CODE 342 - CRITICAL AREA PLANTING.
4. CONCRETE FLOORS AND FOOTINGS SHALL BE PLACED ON FIRM SOIL. ALL LOOSE SOIL SHALL BE REMOVED. IF FILL MATERIAL IS USED, PLACE IN 9" THICK LAYERS AND COMPACT WITH SHEEPSFOOT ROLLER OR OTHER EQUIVALENT COMPACTION METHOD.
5. ALL LUMBER, INCLUDING THE POSTS, IN CONTACT WITH LITTER, COMPOST, OR CONCRETE SHALL BE PRESSURE TREATED (SEE WOOD TREATMENT TABLE ON SHEET 5).
6. ALL DIMENSION LUMBER SHALL BE SOUTHERN PINE NO. 2 OR BETTER.
7. ALL NAILS, BOLTS AND OTHER CONNECTORS SHALL BE OF HOT-DIPPED ZINC COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE, OR COPPER. NAILS SHALL HAVE SPIRALED OR RINGED (ANNULAR) SHANKS. ALL REFERENCES TO "GALVANIZED" IN THIS SET OF DRAWINGS REFERS TO THE ABOVE LISTED COATINGS.
8. ROOFING SHALL BE 29 GAUGE GALVANIZED METAL. SEALANT SHALL BE APPLIED TO ALL LAPS.
9. ON SITE WATER SOURCE IS NECESSARY TO MAINTAIN MOISTURE CONTENT OF COMPOST.
10. ALL DISTURBED AREAS SHALL BE VEGETATED USING PRACTICE CODE 342 - CRITICAL AREA PLANNING.
11. CALL BEFORE YOU DIG: 1-800-282-7411 OR 770-623-4344.

Date 10/07  
 Designed W. Brown  
 Drawn S. Rogers  
 H. McFarland  
 Checked J. Holloway  
 Approved 10/07

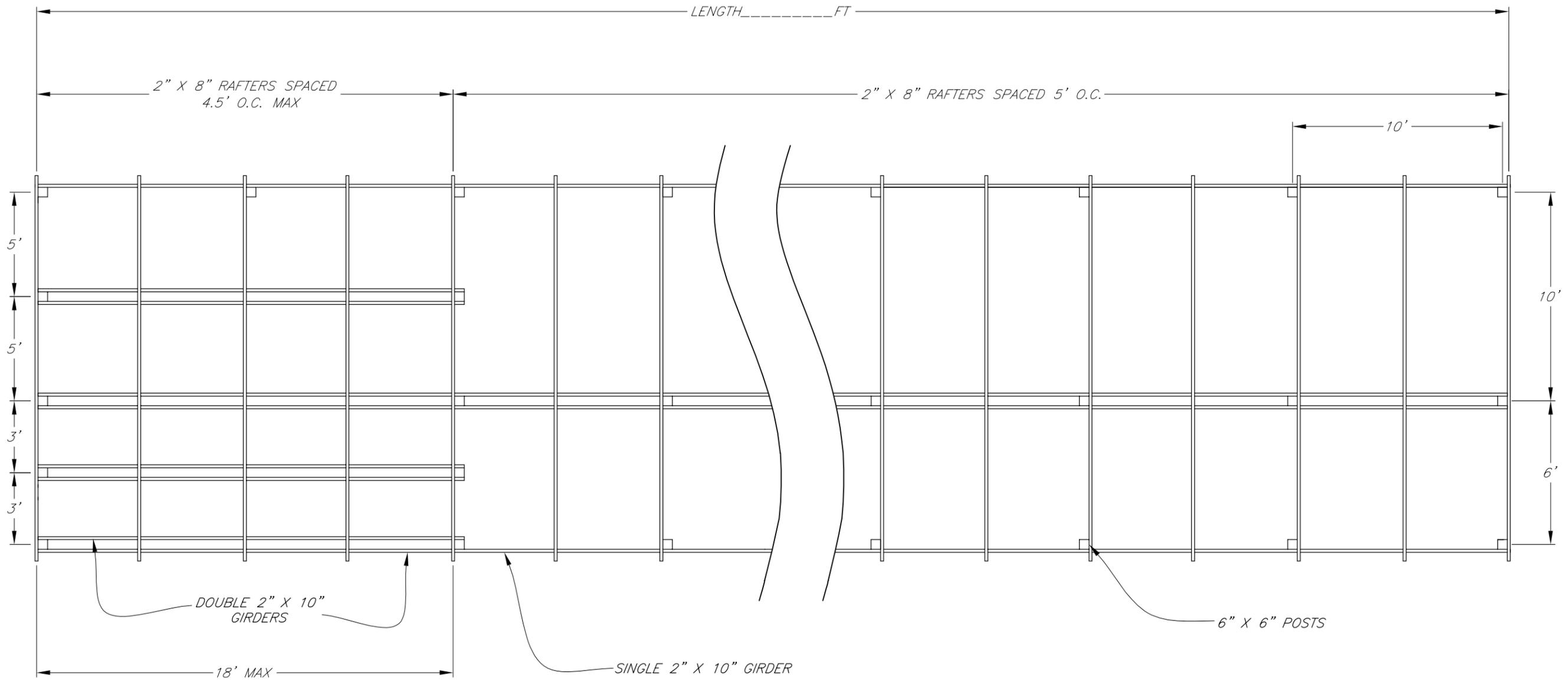
GEORGIA COMPOSTING FACILITY  
 16' Stand-Alone Structure  
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 Plan

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ROOF FRAMING PLAN

REVISIONS		
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GEORGIA COMPOSTING FACILITY  
16' Stand-Alone Structure

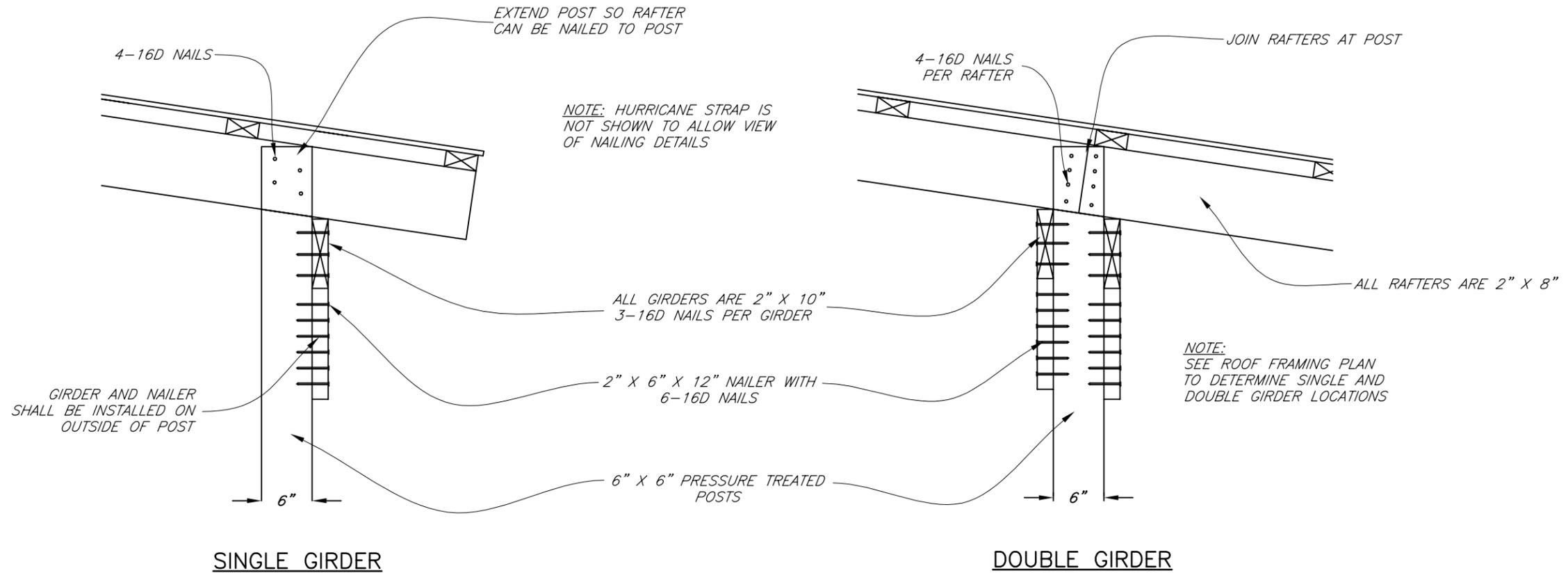


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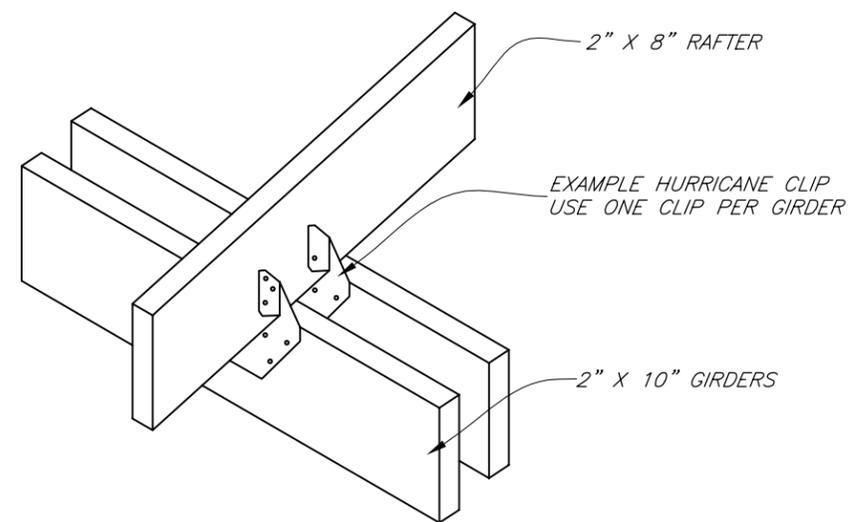
Drawing No.  
Roof Plan

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Sheet 3 of 5

County, GA



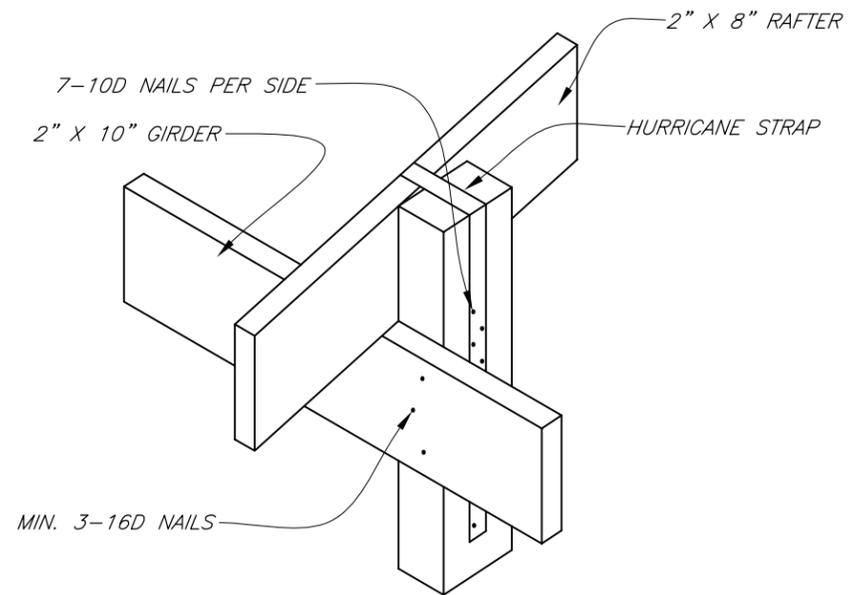
**GIRDER AND RAFTER TO POST CONNECTIONS**



**HURRICANE CLIP**  
(USE AT RAFTER TO GIRDER CONNECTIONS WITHOUT POSTS)

**NOTES:**

1. MINIMUM UPLIFT RESISTANCE FOR HURRICANE STRAP IS 1077 LBS.
2. STRAP SHALL BE 2" OR WIDER. CENTER STRAP ON RAFTER BUTT JOINTS ON CENTER POSTS.
3. USE MANUFACTURED HURRICANE CLIP FOR RAFTER TO GIRDER CONNECTIONS (WITHOUT POSTS). MINIMUM UPLIFT RESISTANCE IS 392 LBS PER CLIP. AN EXAMPLE IS SHOWN AT LEFT. INSTALL ACCORDING TO MANUFACTURER'S SPECIFICATIONS.



**HURRICANE STRAP**  
(USE AT RAFTER TO GIRDER CONNECTIONS WITH POSTS)

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10/07	H. MCFARLAND	STATE ENGINEER

Designed	W. Brown	Date	10/07
Drawn	S. Rogers		
Checked	H. McFarland		
Approved	J. Holloway		

GEORGIA COMPOSTING FACILITY  
16' Stand-Alone Structure

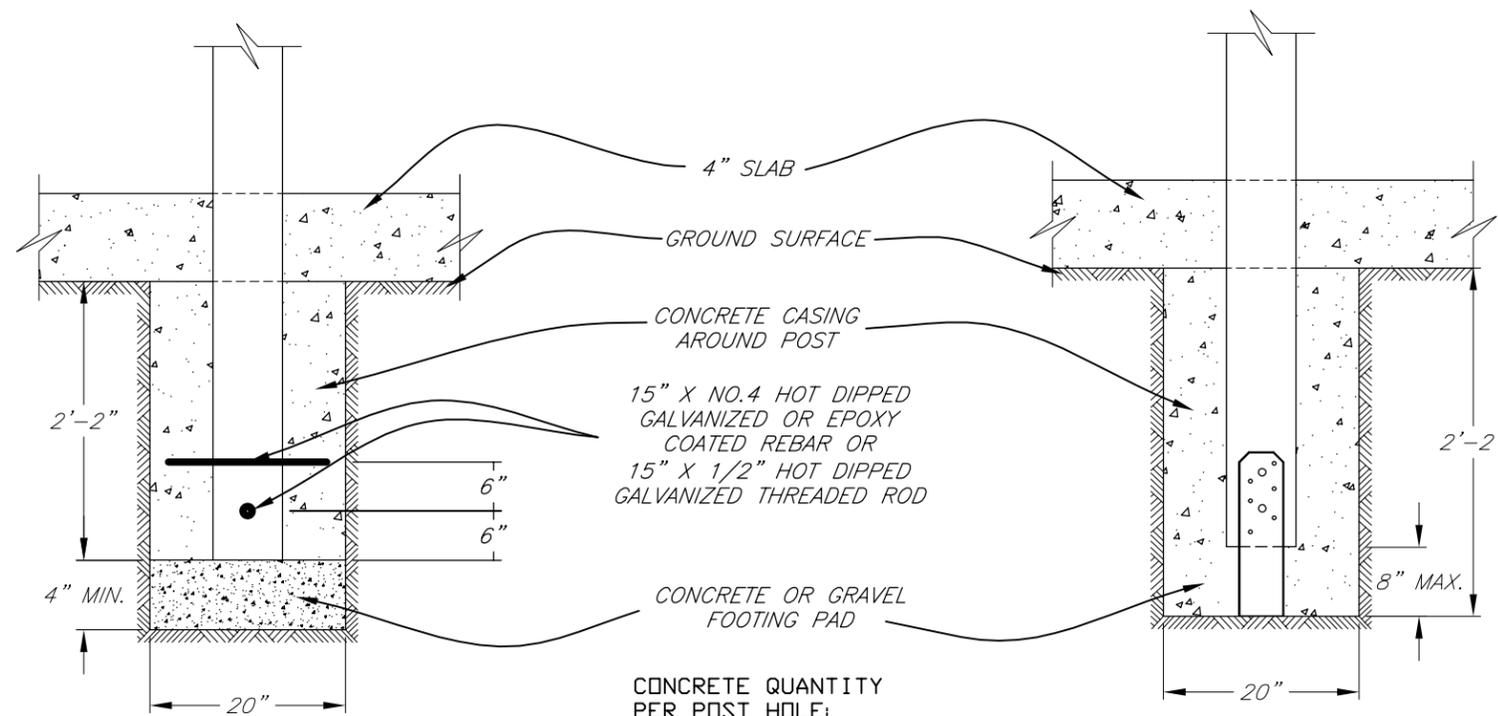


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Detail 1

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Sheet 4 of 5

County, GA

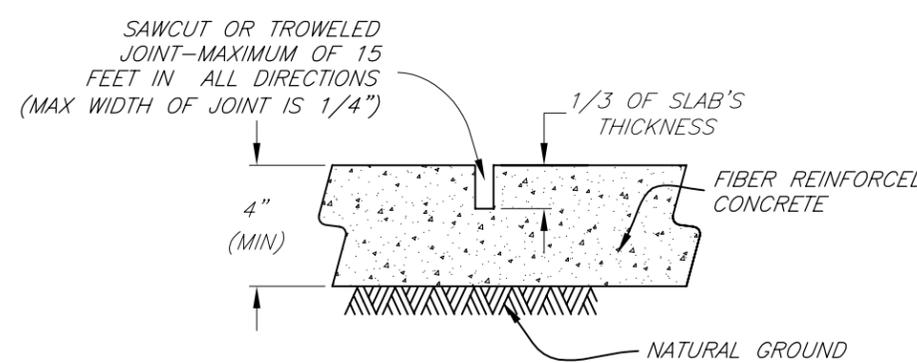


**CONCRETE POST FOOTING DETAIL**

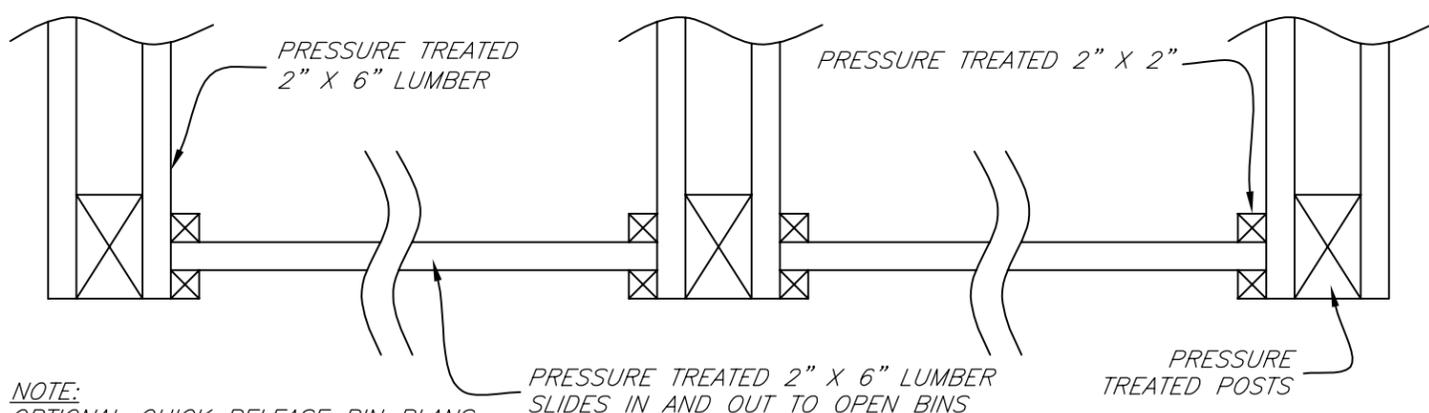
**MECHANICAL POST ANCHOR CONCRETE FOOTING DETAIL**

CONCRETE QUANTITY PER POST HOLE:  
 4" X 6" 0.19 C. Y.  
 6" X 6" 0.20 C. Y.

- NOTES:**
1. EXAMPLE CONNECTOR SHOWN AT LEFT.
  2. MINIMUM UPLIFT RESISTANCE REQUIRED IS 1574 LBS.
  3. INSTALL ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
  4. CONNECTOR SHALL BE GALVANIZED.
  5. MECHANICAL POST ANCHOR MAY BE USED INSTEAD OF REBAR.
  6. REBAR OR MECHANICAL POST ANCHOR REQUIRED FOR FULL POSTS ONLY.



**FIBER REINFORCED CONTRACTION JOINT**



**STANDARD BIN FRONT - TOP VIEW**

**NOTE:**  
 OPTIONAL QUICK RELEASE BIN PLANS ARE AVAILABLE. SEE YOUR NRCS REPRESENTATIVE FOR DETAILS.

MINIMUM RETENTION RATES IN PCF				
USE	CCA	ACQ-C/D	CBA-A	CA-B
GROUND CONTACT OR FRESH WATER	0.40	0.40	0.41	0.21
IMPORTANT STRUCTURAL MEMBERS	0.60	0.60	0.61	0.31

CCA - CHROMATED COPPER ARSENATE  
 ACQ-C/D - ALKALINE COPPER QUATERNARY  
 CBA-A & CA-B - COPPER AZOLE

- NOTES:**
1. ALL WOODEN WALLS, HALF POSTS, AND BIN FRONT WOOD SHALL MEET THE GROUND CONTACT RATES.
  2. ALL SUPPORT POSTS SHALL MEET THE IMPORTANT STRUCTURAL MEMBER RATES.

**WOOD TREATMENT TABLE**

REVISIONS		
DATE	APPROVED	TITLE
09/05	H. MCFARLAND	STATE ENGINEER
10/07	H. MCFARLAND	STATE ENGINEER

Designed W. Brown Date 10/07  
 Drawn S. Rogers Date 10/07  
 Checked H. McFarland Date 10/07  
J. Holloway Date 10/07  
 Approved

GEORGIA COMPOSTING FACILITY  
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 Detail 2

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