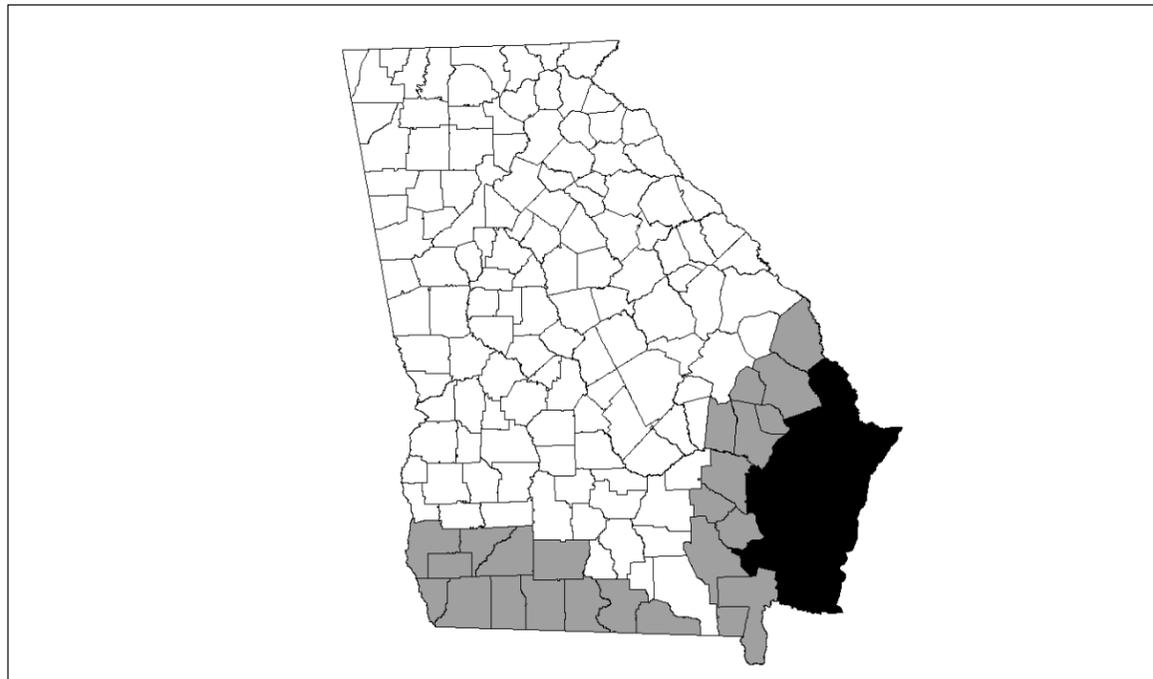


**UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE**

GEORGIA STANDARD DRAWINGS - 16 FOOT SIDE SHED COMPOST FACILITY CONSTRUCTED WITH 6" X 6" POSTS. THIS COMPOSTER SHALL BE CONSTRUCTED AS AN EXTENSION OF ANY GEORGIA NRCS STANDARD STACK FACILITY WITH MAXIMUM POST HEIGHT OF 14 FOOT (12 FOOT FOR PS4).

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 – 20 PSF.
 - B) BASIC WIND SPEED OF 90 MPH AND GROUND SNOW LOAD OF 10 PSF OR BASIC WIND SPEED OF 120 MPH AND NO SNOW LOAD.
 - C) IMPORTANCE FACTOR, I=0.87
 - D) WIND EXPOSURE CATEGORY C.
 - E) INTERNAL PRESSURE COEFFICIENT = 0.55
3. USE HURRICANE STRAP AS REQUIRED BY WIND ZONE REGION SHOWN 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.
6. NO ADDITIONS SHOULD BE MADE TO STRUCTURE WITHOUT APPROVAL FROM NRCS.
7. USE WITH PS1, PS2, PS3, OR PS4.



THIS DESIGN IS INTENDED FOR USE IN COUNTIES SUBJECT TO HURRICANE WIND LOADS UP TO 110 MPH SHADED GRAY ABOVE. DO NOT USE THIS DESIGN FOR COUNTIES SHADED BLACK. COUNTIES SHADED BLACK ARE SUBJECT TO 120 MPH WIND LOADS.

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
-------	------	---------------------	------	------------------------	------

INDEX TO DRAWINGS:

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

Date 09/07
Designed W. Brown
Drawn W. Brown, S. Rogers
H. McFarland
Checked J. Holloway
Approved GA

GEORGIA COMPOSTING FACILITY
(16' Side Shed Composting Facility)

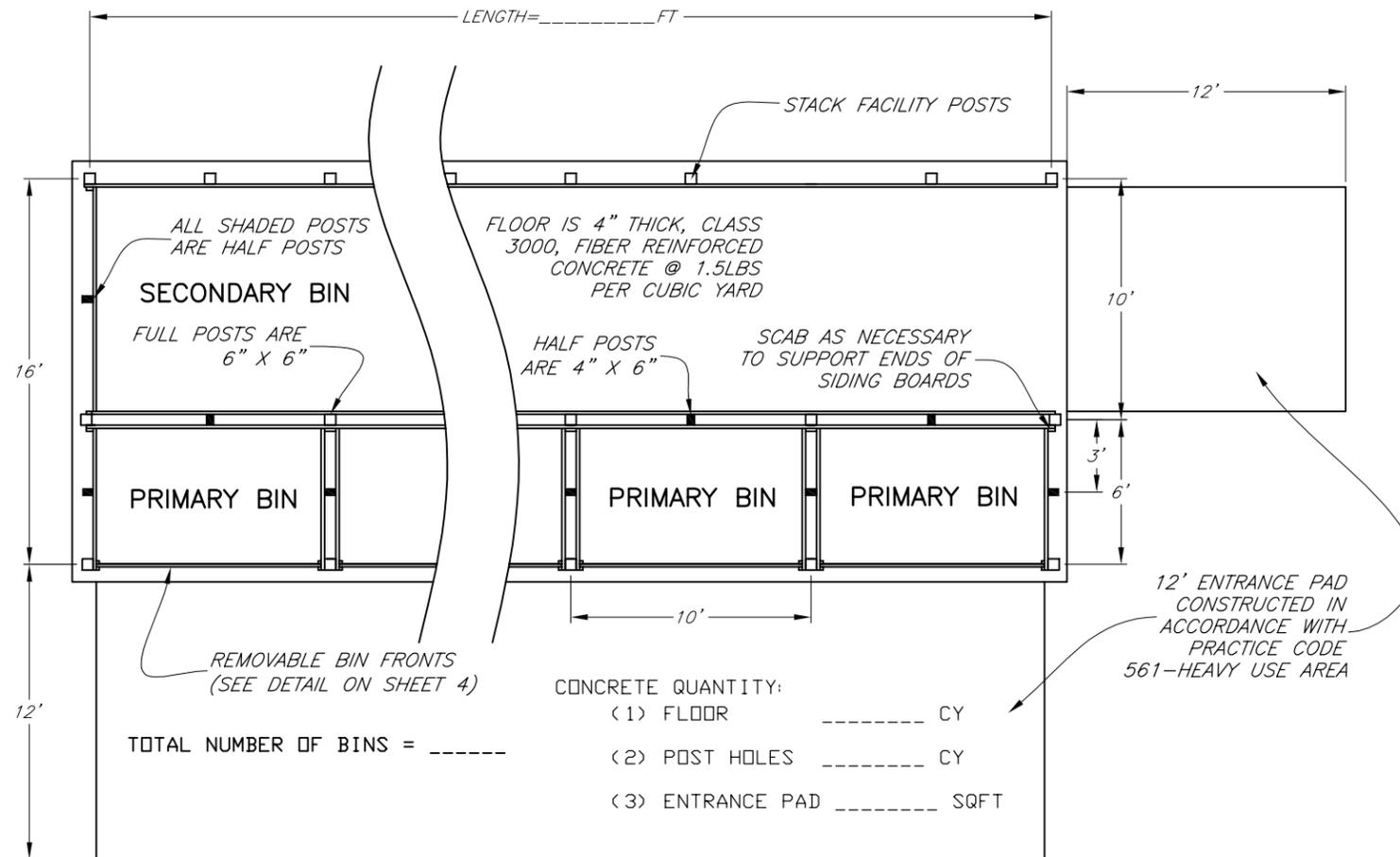


File No.
ga-eng-317-c3.pdf

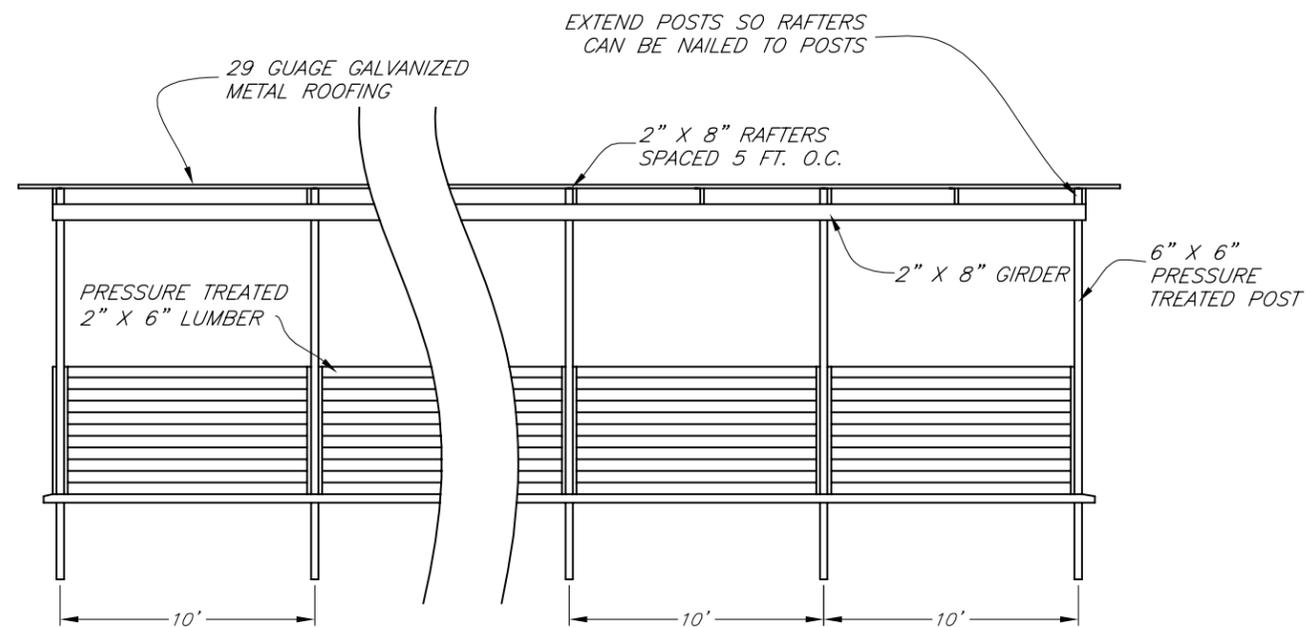
Drawing No.
Cover

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

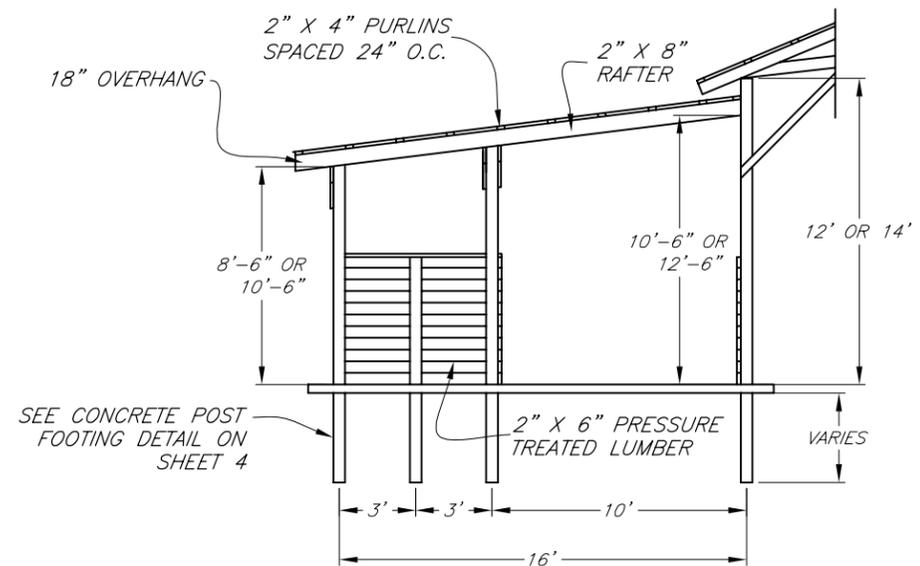
10/29/2007 3:27 PM
Sheet 1 of 4



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 4).
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 4).
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. INSTALL ACCORDING TO MANUFACTURER SPECIFICATIONS. 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.

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

Date	09/07
Designed	W. Brown
Drawn	S. Rogers, W. Brown, H. McFarland
Checked	J. Holloway
Approved	

GEORGIA COMPOSTING FACILITY
(16' Side Shed Composting Facility)

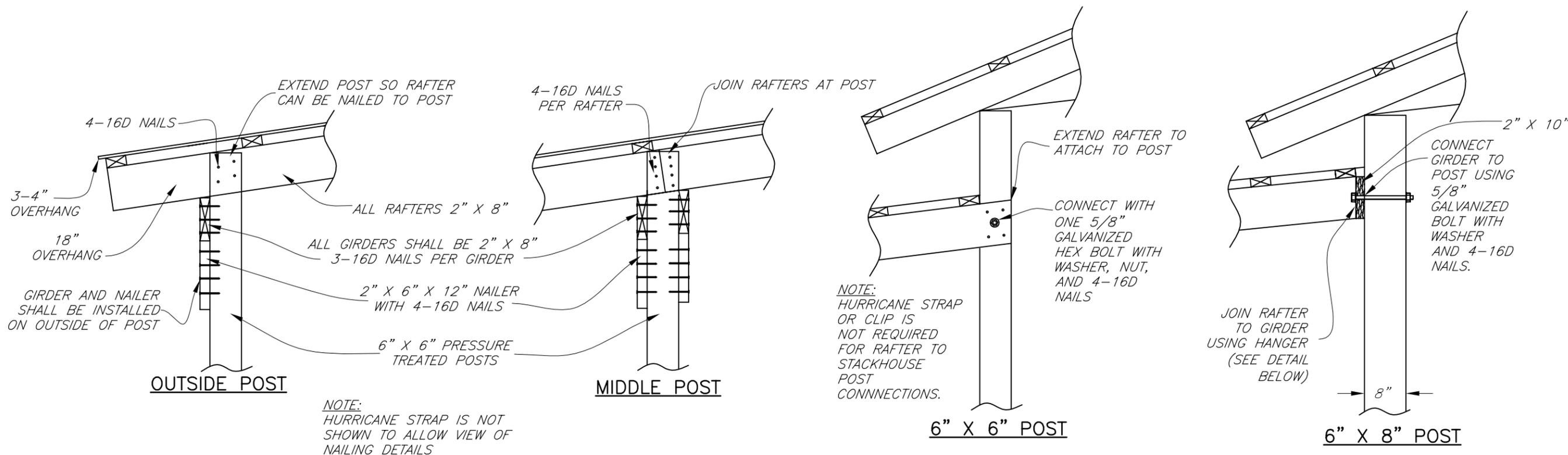


File No.
ga-eng-317-c3.pdf

Drawing No.
Plan

10/29/2007 3:27 PM
Sheet 2 of 4

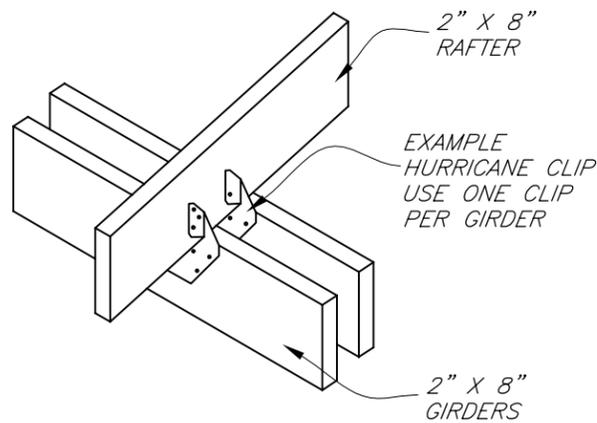
County, GA



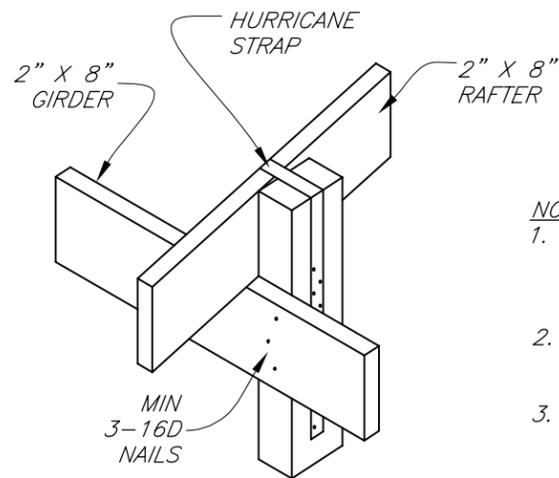
GIRDER AND RAFTER TO POST CONNECTIONS

NOTES:

1. USE MANUFACTURED HURRICANE STRAP FOR RAFTER TO GIRDER CONNECTIONS WITH POSTS. MINIMUM UPLIFT RESISTANCE IS:
 - (A) FOR 90-100 MPH =1211 LBS.
 - (B) FOR 110 MPH =1371 LBS.
 - (C) FOR 120 MPH =1825 LBS.
2. ALL STRAPS SHALL BE 2" OR WIDER. CENTER STRAP ON RAFTER TO RAFTER BUTT JOINTS ON CENTER POSTS.
3. USE MANUFACTURED HURRICANE CLIP FOR RAFTER TO GIRDER CONNECTIONS (WITHOUT POSTS). MINIMUM UPLIFT RESISTANCE IS 398 LBS PER CLIP. AN EXAMPLE IS SHOWN AT LEFT.
4. ALL STRAPS AND CLIPS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
5. MANUFACTURER'S SPECIFICATIONS SHALL BE PROVIDED TO NRCS.
6. ONLY ONE GIRDER AND ONE CLIP ARE NECESSARY FOR OUTSIDE POSTS.
7. WHERE GIRDERS MEET IN A BUTT JOINT AT THE POST, 2-5/8" HEX BOLTS WITH WASHER & AND NUT, ONE THROUGH EACH GIRDER, WILL BE USED TO FASTEN GIRDERS TO THE POST.



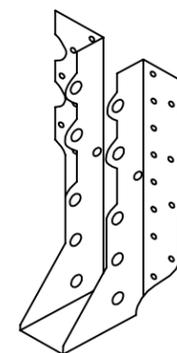
HURRICANE CLIP
(USE AT ALL RAFTER TO GIRDER CONNECTIONS WITHOUT POSTS)



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

NOTE:

1. MINIMUM REQUIRED CAPACITY FOR HANGER IS 346 LBS.
2. MINIMUM UPLIFT RESISTANCE IS 384 LBS.
3. EXAMPLE HANGER IS SHOWN AT RIGHT.
4. INSTALL ACCORDING TO MANUFACTURER'S SPECIFICATIONS SHALL BE PROVIDED TO NRCS



RAFTER HANGER

Designed W. Brown Date 09/07
 Drawn S. Rogers, W. Brown Date 09/07
 Checked H. McFarland Date 09/07
 Approved J. Holloway Date 09/07

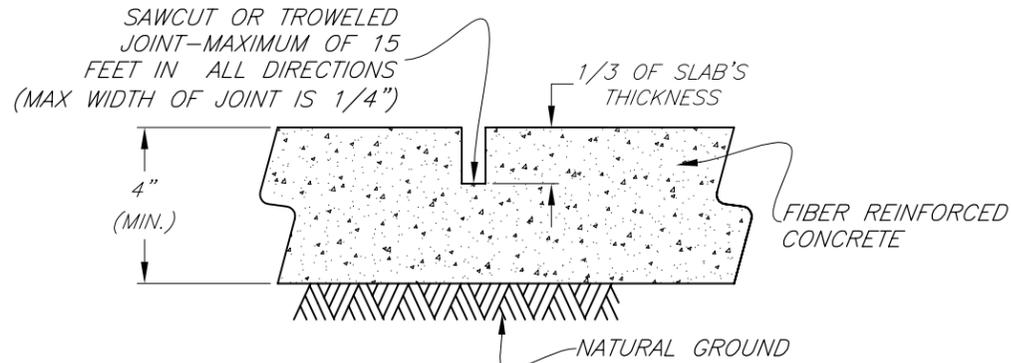
Georgia Composting Facility
 (16' Side Shed Composting Facility)
 County, GA



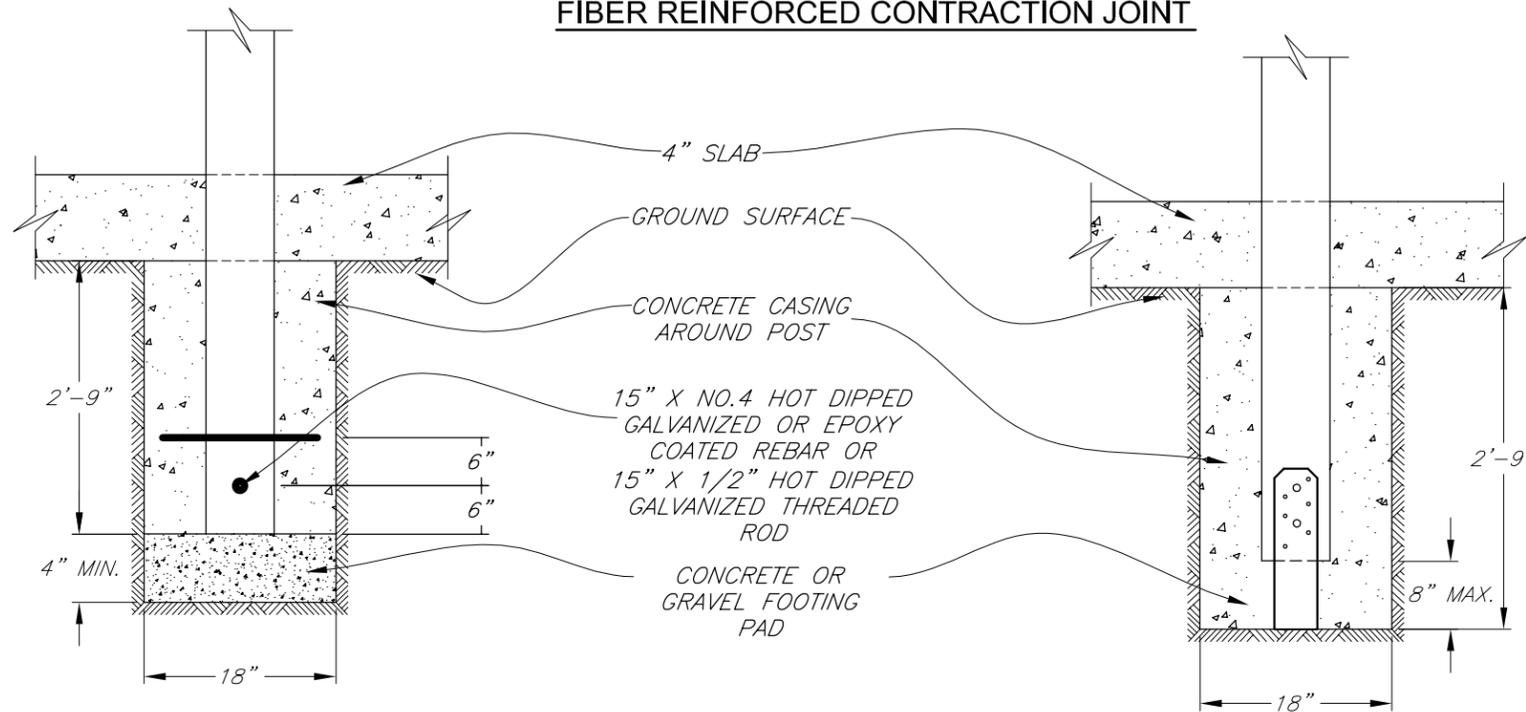
File No. ga-eng-317-c3.pdf

Drawing No. Detail 1

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



FIBER REINFORCED CONTRACTION JOINT



CONCRETE QUANTITY
PER POST HOLE: 0.20 C. Y.

CONCRETE POST FOOTING DETAIL

**MECHANICAL POST ANCHOR
CONCRETE FOOTING DETAIL**

NOTES:

1. EXAMPLE CONNECTOR SHOWN AT LEFT.
2. MINIMUM UPLIFT RESISTANCE REQUIRED IS 2761 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 AND MECHANICAL POST ANCHOR REQUIRED FOR FULL POST ONLY.

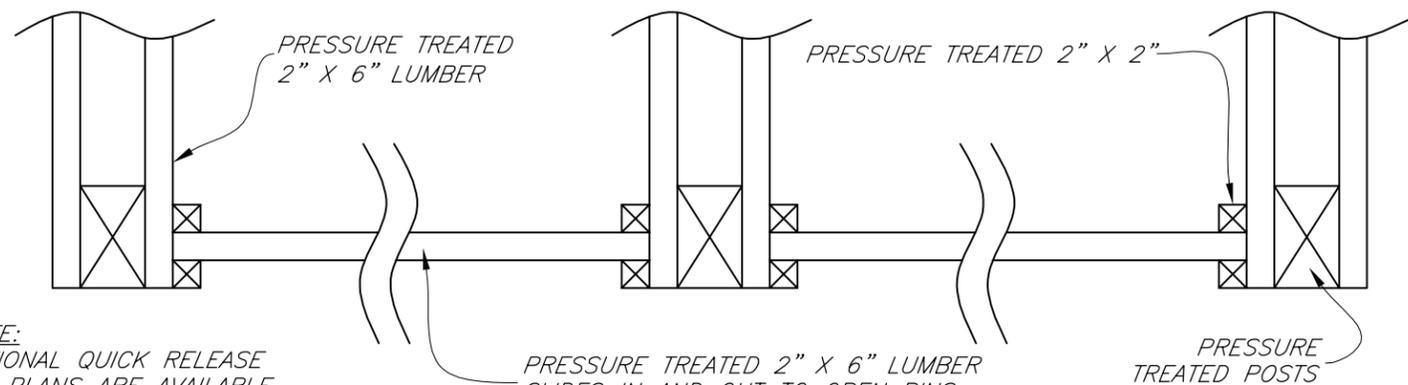
MINIMUM RETENTION RATES IN PCF				
USE	CCA	ACQ-C/D	CBA-A	CA-B
GROUND CONTACT OR FRESH WATER	0.40	0.40	0.41	0.21
IMPORTANT STRUCTURAL MEMBERS	0.60	0.60	0.61	0.31

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



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

STANDARD BIN FRONT - TOP VIEW

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

Designed W. Brown Date 09/07
Drawn S. Rogers, W. Brown Date 09/07
H. McFarland
Checked J. Holloway Date 09/07
Approved _____

GEORGIA COMPOSTING FACILITY
(16' Side Shed Composting Facility)



File No.
ga-eng-317-c3.pdf

Drawing No.
Detail 2

10/29/2007 3:27 PM
Sheet 4 of 4