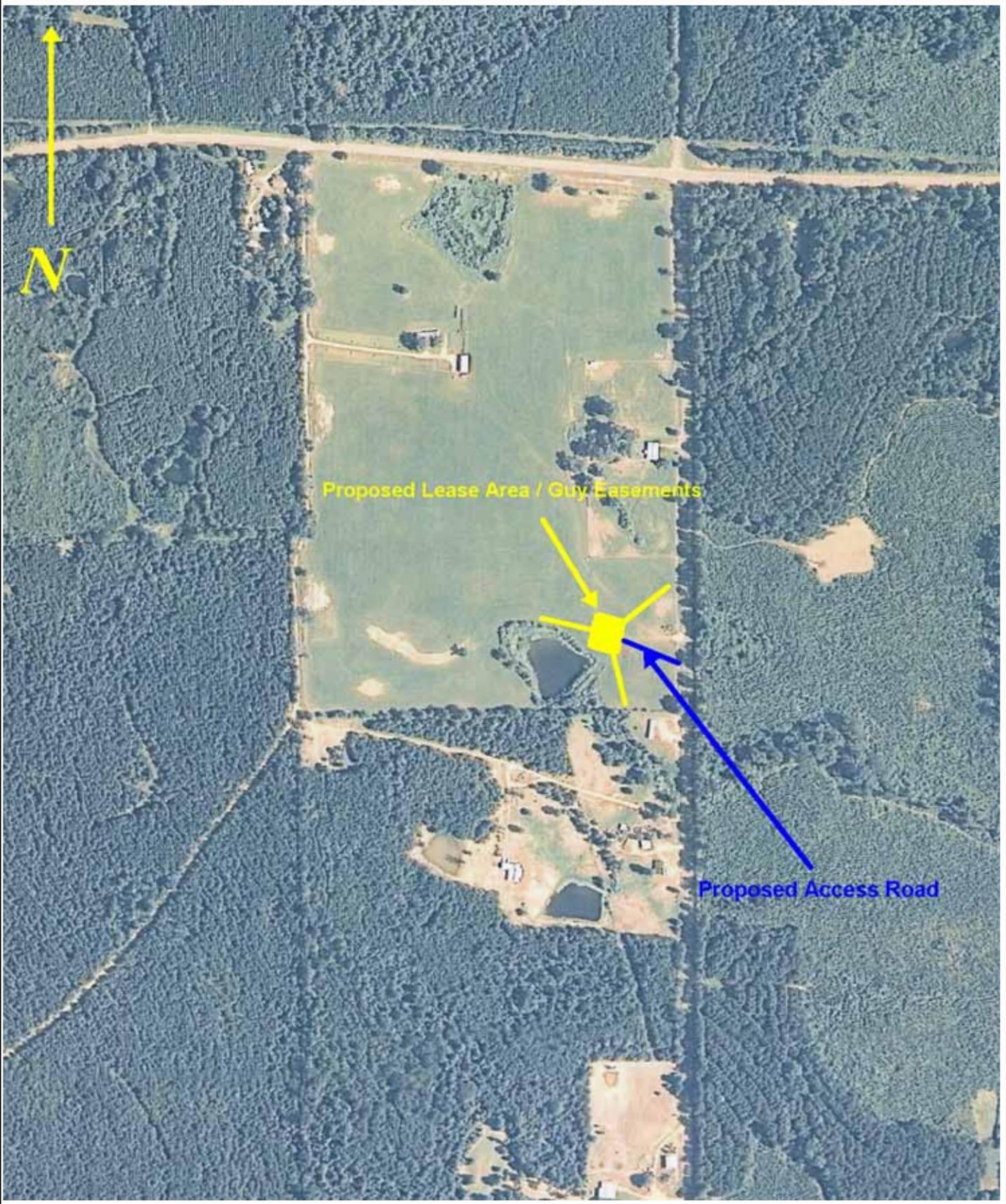


## Environmental Engineers, Inc.

Subject:  
Draft Environmental Assessment  
Proposed MSWIN 20103 C Communications Tower  
Bowertown, Copiah County, Mississippi  
Project No.: JSE01P0814

Figure 1  
Site Location Map  
Scale: 1" = 2000'





## Environmental Engineers, Inc.

Subject:  
Draft Environmental Assessment  
Proposed MSWIN 20103 C Communications Tower  
Bowertown, Copiah County, Mississippi  
Project No.: JSE01P0814

Figure 2  
2007 Aerial Photograph

Scale: 1" = 500'





View from the center of the site toward the north.



View from the center of the site toward the east.

## Environmental Engineers, Inc.

Subject:  
Draft Environmental Assessment  
Proposed MSWIN 20103 C Communications Tower  
Bowertown, Copiah County, Mississippi  
Project No.: JSE01P0814

Figure 3  
Site Photographs





View from the center of the site toward the south.



View from the center of the site toward the west.

## Environmental Engineers, Inc.

Subject:  
Draft Environmental Assessment  
Proposed MSWIN 20103 C Communications Tower  
Bowertown, Copiah County, Mississippi  
Project No.: JSE01P0814

Figure 4  
Site Photographs





View of the proposed access location from John Hay Road.



View from the northeastern guy anchor toward the site.

## Environmental Engineers, Inc.

Subject:  
Draft Environmental Assessment  
Proposed MSWIN 20103 C Communications Tower  
Bowertown, Copiah County, Mississippi  
Project No.: JSE01P0814

Figure 5  
Site Photographs





View from the southeastern guy anchor toward the site.



View from the northwestern guy anchor toward the site.

## Environmental Engineers, Inc.

Subject:  
Draft Environmental Assessment  
Proposed MSWIN 20103 C Communications Tower  
Bowertown, Copiah County, Mississippi  
Project No.: JSE01P0814

Figure 6  
Site Photographs



Standard Program at 1:000,000 Scale



MAP SCALE 1" = 2000'



NATIONAL FLOOD INSURANCE PROGRAM

NFIP

PANEL 0450D

FIRM

FLOOD INSURANCE RATE MAP  
COPLAH COUNTY,  
MISSISSIPPI  
AND INCORPORATED AREAS

PANEL 450 OF 525

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY  
COPLAH COUNTY

NUMBER PANEL SUFFIX  
28021 0450 D

Note to User: The Map Number shown below should be used in placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

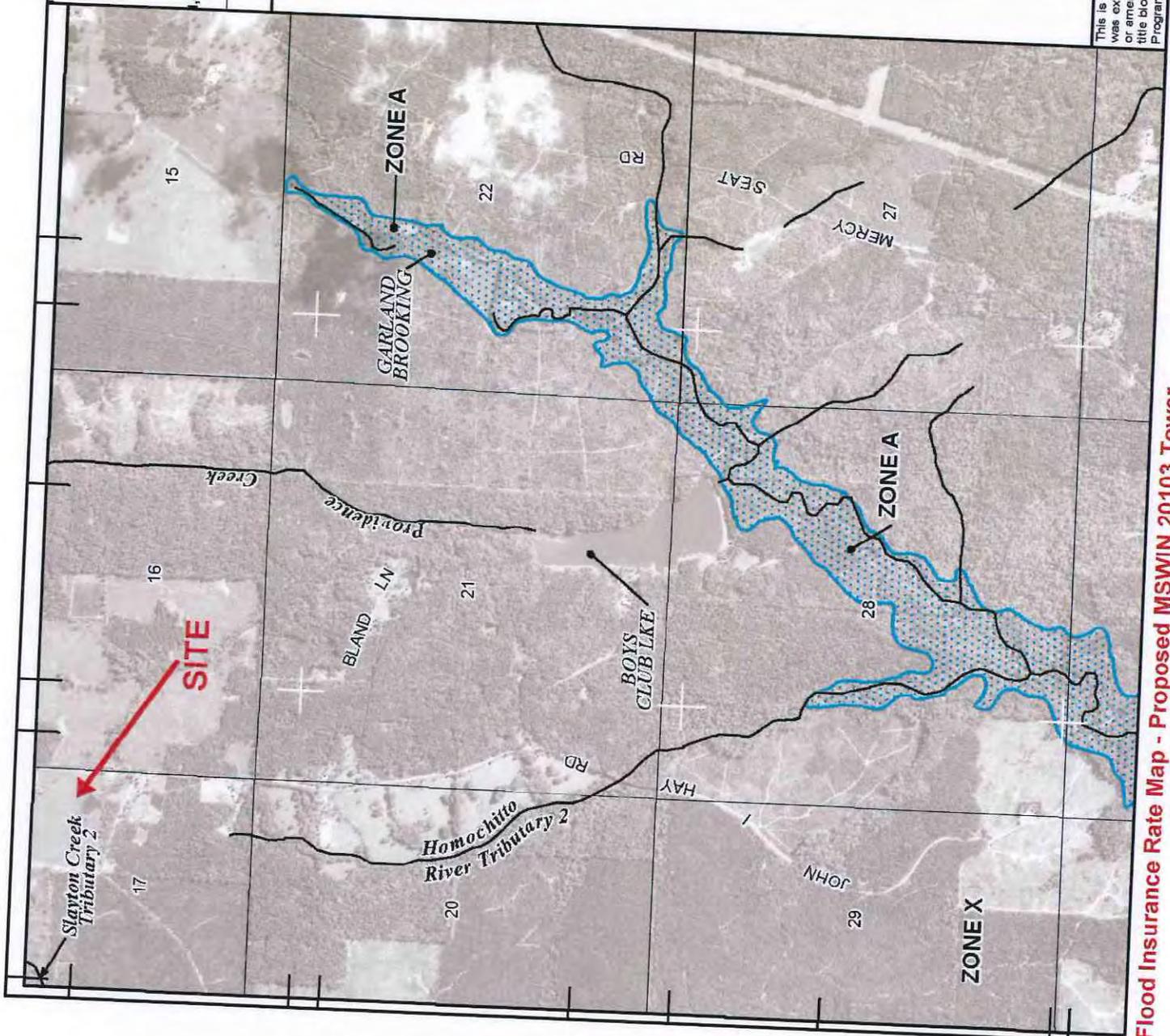


MAP NUMBER  
28029C0450D

EFFECTIVE DATE  
DECEMBER 16, 2008

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT Ch-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at [www.nsc.fema.gov](http://www.nsc.fema.gov)

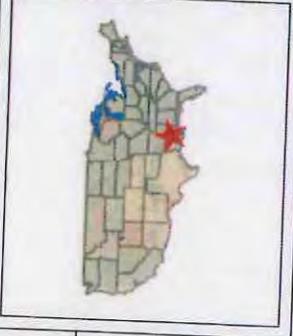
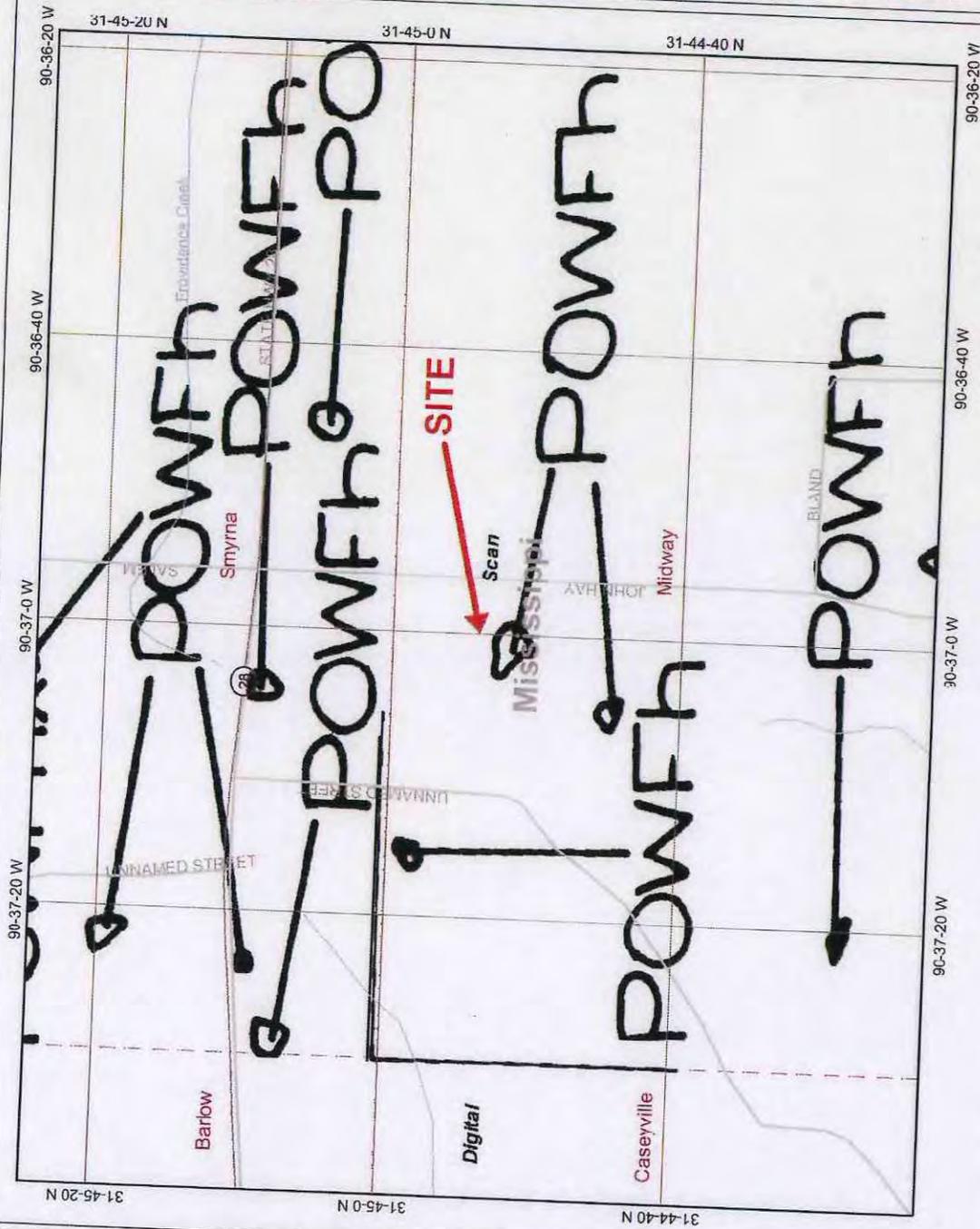


Flood Insurance Rate Map - Proposed MSWIN 20103 Tower

JSE01P0814

Figure 7

# MSWIN 20103 C Tower



## Legend

- Ohio\_wet\_scan
  - 0
  - 1
  - Out of range
- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
  - Estuarine and Marine Deepwater
  - Estuarine and Marine Wetland
  - Freshwater Emergent Wetland
  - Freshwater Forested/Shrub Wetland
  - Lake
  - Other
  - Riverine
- Lower 48 Available Wetland Data
  - Non-Digital
  - Digital
  - No Data
  - Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:13,437

Map center: 31° 44' 54" N, 90° 36' 59" W

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

National Wetland Inventory Map - Proposed MSWIN 20103 Tower

JSE01P0814

Figure 8

# Appendix A



**LEGEND**  
 O = 5/8" CHAPPED REBAR SET (JANU 15 02859)  
 \* = SET BY MAIL  
 □ = FOUND PROPERTY MARKER  
 POB = POINT OF BEGINNING  
 POC = POINT OF COMMENCEMENT  
 POC = POINT OF ENDING  
 ○ = CALCULATED POINT  
 ○ = RECORDED INFORMATION  
 ○ = POWER POLE  
 ○ = TELEPHONE  
 ○ = TELEPHONE RESIDENTIAL  
 ○ = POWER BOX  
 ○ = TELEPHONE RESIDENTIAL  
 ○ = RIGHT-OF-WAY  
 ○ = OVERHEAD POWER

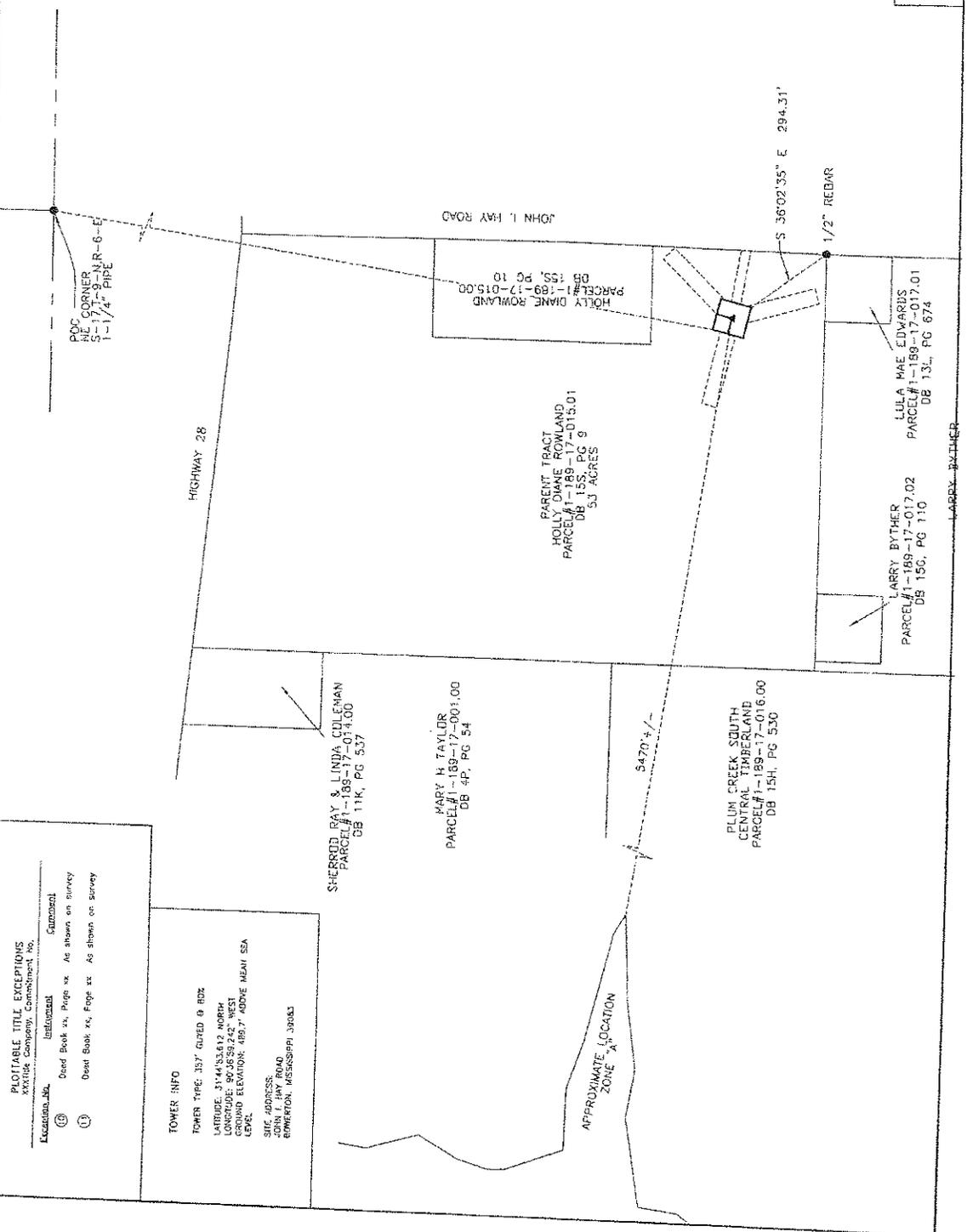
**VICINITY MAP**

GRID TO TRUE NORTH  
 CONVERSION  
 1:40  
 TRUE NORTH TO  
 MAGNETIC DECLINATION  
 014° E  
 GPS SCALE FACTOR  
 1.00010922

GRID = NORTH  
 MISSISSIPPI = WEST

**PARENT TRACT OVERVIEW**  
 NOT TO SCALE

**BOWERTON**  
 20103-C  
 E/12, SEC. 17, T-9-N, R-6-E  
 COPIAH COUNTY, MISSISSIPPI



**PLOTTABLE TITLE EXCEPTIONS**  
 XXX (Risk Company, Construction, etc.)  
 Location, etc. Information General  
 (C) Deed Book xx, Page xx As shown on survey  
 (1) Deed Book xx, Page xx As shown on survey

**TOWER INFO**  
 TOWER TYPE: 357 GUPT B 80Z  
 LATITUDE: 31°43'36.13 NORTH  
 LONGITUDE: 90°28'59.242" WEST  
 GROUND ELEVATION: 489.7' ABOVE MEAN SEA LEVEL  
 SITE ADDRESS:  
 JOHN I. HAY ROAD  
 BOWERTON, MISSISSIPPI 39063

**TOWER INFO**  
 TOWER TYPE 357 GUYED 8 802  
 LATITUDE 31.04532617 NORTH  
 LONGITUDE 90.78338153 WEST  
 GROUND ELEVATION 108.7 ABOVE MEAN SEA LEVEL  
 SITE ADDRESS:  
 JOHN I. HAY ROAD  
 BOWERTON, MISSISSIPPI 39003

**PARENT TRACT**  
 HOLLY DIANE ROWLAND  
 PARCEL #1-189-17-015.01  
 DB 15S, PG 9

**POB**  
 100' X 100'  
 LEASE AREA  
 30' INGRESS/EGRESS &  
 UTILITY EASEMENT AND  
 50' GUY EASEMENT  
 'A', 'B' & 'C'  
 NE CORNER  
 S-17.19-N-R-6-E  
 1-1/4" PIPE

**POB**  
 100' X 100'  
 LEASE AREA  
 0.23 ACRES±  
 & 50' X 50'  
 LEASE AREA  
 0.11 ACRES±

**POB**  
 50' GUY EASEMENT "C"  
 0.27 ACRES±

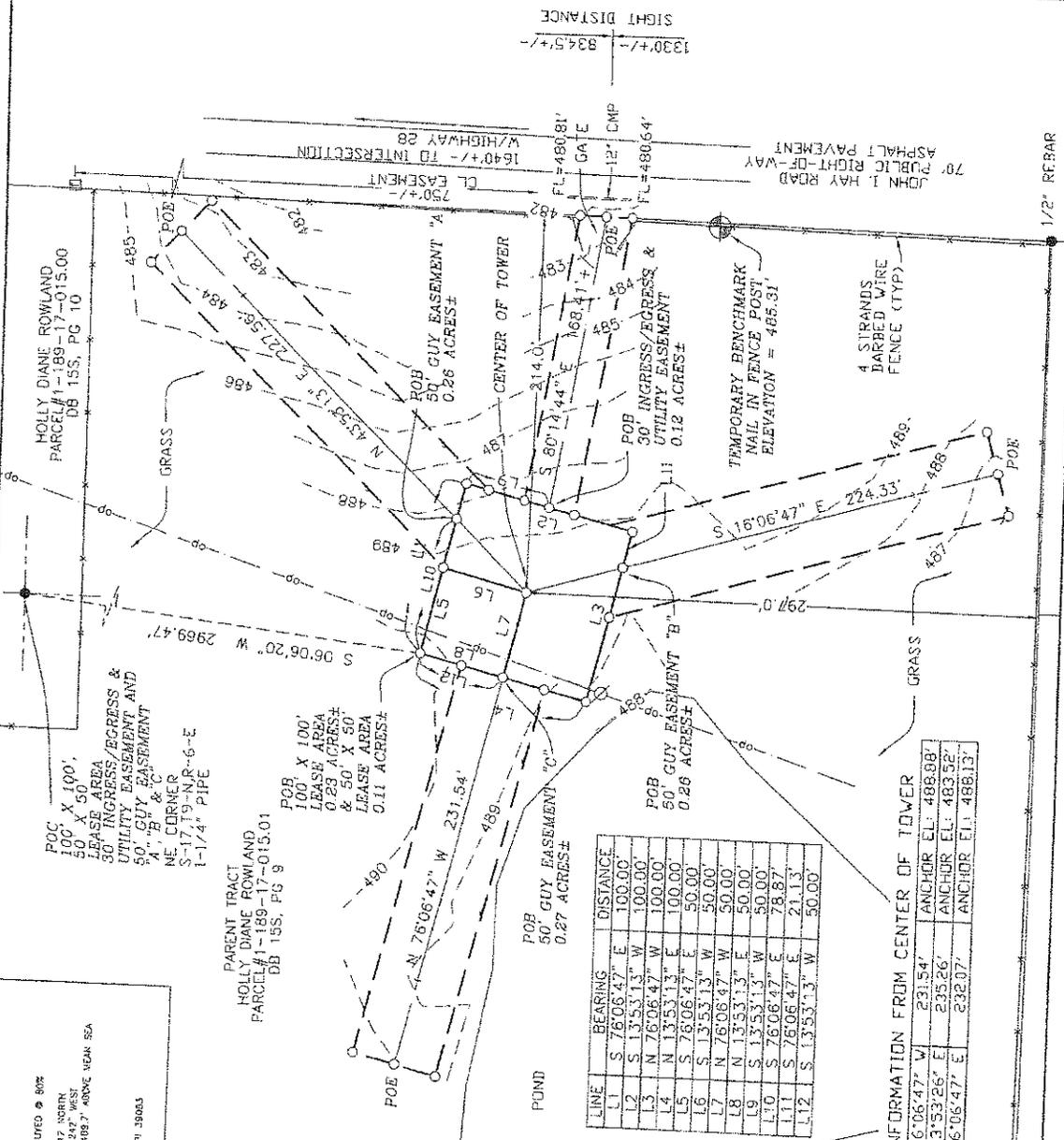
**POB**  
 50' GUY EASEMENT "B"  
 0.26 ACRES±

**POB**  
 50' GUY EASEMENT "A"  
 0.26 ACRES±

**GUY WIRE INFORMATION FROM CENTER OF TOWER**

LINE	BEARING	DISTANCE	ANCHOR ELI
L1	S 76°06'47" E	100.00	488.08'
L2	S 13°53'13" W	100.00	488.08'
L3	N 76°06'47" W	100.00	488.08'
L4	N 13°53'13" E	100.00	488.08'
L5	S 76°06'47" E	50.00	488.08'
L6	S 13°53'13" W	50.00	488.08'
L7	N 76°06'47" W	50.00	488.08'
L8	N 13°53'13" E	50.00	488.08'
L9	S 76°06'47" W	50.00	488.08'
L10	S 13°53'13" E	78.87	488.08'
L11	S 76°06'47" E	21.13	488.08'
L12	S 13°53'13" W	50.00	488.08'

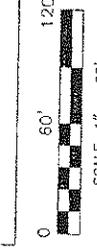
LINE	BEARING	DISTANCE
L1	S 76°06'47" E	100.00
L2	S 13°53'13" W	100.00
L3	N 76°06'47" W	100.00
L4	N 13°53'13" E	100.00
L5	S 76°06'47" E	50.00
L6	S 13°53'13" W	50.00
L7	N 76°06'47" W	50.00
L8	N 13°53'13" E	50.00
L9	S 76°06'47" W	50.00
L10	S 13°53'13" E	78.87
L11	S 76°06'47" E	21.13
L12	S 13°53'13" W	50.00



**LEGEND**  
 ○ - 5/8" CAPED REBAR SET (FORM IS 22059)  
 ● - FOUND PROPERTY MARKER  
 □ - SET FOR NAIL  
 POB = POINT OF BEGINNING  
 POC = POINT OF COMMENCEMENT  
 POE = POINT OF ENDING  
 ▲ - CALCULATED POINT  
 (E) - RECORDED INFORMATION  
 ○ - POWER POLE  
 ○ - GUY ANCHOR  
 ○ - PUNCE BOX  
 ○ - TELEPHONE PEDestal  
 ○ - OVERHEAD POWER



**RAWLAND PARCEL SURVEY**  
 ENGINEERS  
 ENVIRONMENTAL  
 1170 U.S. HIGHWAY 411  
 BOWERTON, MS 39003  
 PHONE (601) 847-3000  
 FAX (601) 847-3000  
 www.environmental-engineers.com



**SMW Engineering Group, Inc.**  
 1520 Woods of Pines Drive  
 Flowery Branch, Alabama 35244  
 Phone: 205-252-8988  
 Fax: 205-252-8989  
 www.smweng.com

**BOWERTON**  
 20103-C  
 E12, SEC. 17, T-9-N, R-6-E  
 COPIED COUNTY, MISSISSIPPI

NO.	DATE	REVISION



**PROVISIONS**

**PART 1 GENERAL**

**1.1 Intent**

A. These specifications and construction drawings accompanying them describe the work to be done and the materials to be furnished for the construction of this project.

B. The drawings and specifications are intended to be fully explanatory and supplementary. However, should anything be shown, indicated or specified on one and not the other, it shall be done the same as if shown, indicated or specified in both.

C. The intention of the documents is to include all labor and materials reasonably necessary for the proper execution and completion of the work as stipulated in the contract.

D. The purpose of the specifications is to interpret the intent of the drawings and to designate the method of the procedure, type and quality of materials required to complete the work.

E. Minor deviations from the design layout are anticipated and shall be considered as part of the work. No changes that alter the character of the work will be made or permitted by the Owner without issuing a change order.

**1.2 Conflicts**

A. The Contractor shall be responsible for verification of all measurements at the site before ordering any materials or doing any work. No extra charge or compensation shall be allowed due to difference between actual dimensions and dimensions indicated on the construction drawings. Any such discrepancy in dimension which may be found shall be submitted to the Owner for consideration before the Contractor proceeds with the work in the affected areas.

B. The Bidder, if awarded the contract, will not be allowed any extra compensation by reason of any matter or thing concerning which such Bidder might have fully informed himself prior to the bidding.

C. No plea of ignorance of conditions that exist, or of difficulties or conditions that may be encountered or of any other relevant matter concerning the work to be performed in the execution of the work will be accepted as an excuse for any failure or omission on the part of the Contractor to fulfill every detail of all the requirements.

**1.3 Contracts and Warranties**

A. Each Contractor is responsible for obtaining the building permit of the local jurisdiction as the Contractor of record, and provide local jurisdiction with all proof required to operate as a Contractor in that jurisdiction. The Contractor shall be reimbursed only the amount of any fee paid as follows:

- a. Plan review fee.
- b. Building permit fee.
- c. Connections and inspections fee.
- d. Development fee.

B. Contractor is responsible for application and payment of Contractor licenses and bonds.

**1.4 Storage**

All materials must be stored in a level and dry fashion and in a manner that does not necessarily obstruct the flow of other work. Any storage method must meet all recommendations of the associated manufacturer.

**1.5 Clean Up**

A. The Contractors shall at all times keep the site free from accumulation of waste materials or rubbish caused by his employees at work and at the completion of the work, he shall remove all rubbish from and about the building area, including all his tools, scaffolding, and surplus materials and shall leave his work clean and ready for use.

B. Exterior: Visually inspect exterior surfaces and remove all traces of soil, waste materials, smudges and other foreign matter.

1. Remove all traces of splashed materials from adjacent surfaces.
2. If necessary to achieve a uniform degree of cleanliness, hose down the exterior of the structure.

C. Interior: Visually inspect interior surface and remove all traces of soil, waste materials, smudges and other foreign matter from walls / floor / ceiling.

1. Remove all traces of splashed materials from adjacent surfaces.
2. Remove point droppings, spots, stains and dirt from finished surfaces.

D. Contractor shall wash and wax floor prior to final acceptance. Floor wax shall be of the anti-slip type.

**1.6 Change Order Procedure**

A. Change order may be initiated by the Owner and/or the Contractor involved. The Contractor, upon verbal request from the Owner shall prepare a written proposal describing the change in work or materials and any changes in the contract amount and present to the Owner for approval. Submit requests for substitutions in the form and in accordance with procedures required for change order proposals. Any changes in scope of work or materials which are performed by the Contractor without a written change order as described and approved by the Owner shall place full responsibility of these actions on the Contractor.

**1.7 Related Documents And Coordination**

A. General Carpentry, electrical, and antenna drawings are interrelated. In performance of the work, the Contractor must refer to all drawings. All coordination to be the responsibility of the Contractor.

**1.8 Shop Drawings**

A. Contractor to submit shop drawings as required to the Owner for approval.

B. All shop drawings shall be reviewed, checked, and corrected by Contractor prior to submittal to the Owner.

**1.9 Products And Substitutions**

A. Submit 3 copies of each request for substitution. In each request, identify the product or fabrication or installation method to be replaced by the substitution, include related specification section and drawing numbers and complete documentation showing compliance with the requirements for substitutions.

B. Submit all necessary product data and cut sheets which properly indicate and describe the items, products, and materials being installed. The Contractor shall, if deemed necessary by the Owner, submit actual samples to the Owner for approval in lieu of cut sheets.

**1.10 Quality Assurance**

All work shall be in accordance with applicable local, state and federal regulations. These shall include but not be limited to the latest version of the following:

ANSI/EIA - 222 - G  
Uniform Building Code (UBC) 1994  
Building Officials and Code Administrators (BOCA) 1990  
National Electrical Code (NEC) with local amendments 1994  
Underwriter Laboratories Approved Electrical Products  
American Institute of Steel Construction Specifications (AISC)  
Life Safety Code NFPA - 101 - 1990

**1.11 Administration**

A. Before the commencement of any work, the Contractor will assign a Project Manager who will act as a single point of contact for all personnel involved in this project. This Project Manager will develop a master schedule for the project which will be submitted to the Owner prior to the commencement of any work.

B. Submit a bar chart, type progress not more than 3 days after the date established for commencement of the work on the schedule. Indicate a time bar for each major category or unit of work to be performed at site, properly sequenced and coordinated with other elements of work. Show completion of the work sufficiently in advance of the date established for substantial completion of the work.

C. Prior to commencing construction, the Owner shall schedule an "on-site" meeting with all major parties. This would include (though not limited to) the Owner, local telephone company, Tower Erection foreman (if subcontracted).

D. Contractor shall be equipped with some means of constant communications, such as a mobile phone or a beeper. This equipment will NOT be supplied by the Owner nor will cellular service be arranged.

E. During construction, Contractor must ensure that employees and SubContractors wear hard hats at all times. The contractor must comply with all applicable OSHA requirements.

**1.12 Insurance And Bonds**

A. Contractor shall at his own expense carry and maintain for the duration of the project all insurance as required and shall not commence with his work until he has presented a certificate of insurance stating all coverages to the Contractor who shall, in turn, forward a copy of all certificates to the Owner.

**1.13 Temporary Facilities**

A. Sanitary: Provide temporary toilets as required by local authorities. Do not use Owner's facilities.

**SITE WORK AND DRAINAGE**

**PART 1 GENERAL**

**2.1 Work Included**

Refer to the survey and architectural site plan for work included.

**2.2 Related Work**

- A. Construction for building foundation
- B. Erection of fence
- C. Access road

**2.3 Descriptions**

A. Access road, turnaround areas, and sites are constructed to provide a well drained, easily maintained, even surface for material and equipment deliveries and maintenance personnel access.

**2.4 Quality Assurance**

A. Vegetation and landscaping, if required within the contract, will be placed and maintained as recommended by nursery industry standards.

**2.5 Sequencing**

- A. Confirm survey stakes and set elevation stakes prior to any construction.
- B. The complete road and site area will be cleared of heavy growth of grass, trees, shrubs and topsoil prior to foundation construction or placement of backfill or sub-base material.
- C. Construct temporary construction zone along access drive.
- D. The site area will be brought to sub-base construction elevation and the access road to base construction elevation prior to forming foundations.
- F. If required, grade, seed, fertilize and mulch disturbed area immediately after bringing the site and access road to base course elevation. Water to ensure growth.
- G. Remove gravel from temporary construction zone.

**2.6 Temporary Construction Zone**

A. Confirm survey stakes and set elevation stakes prior to any construction.

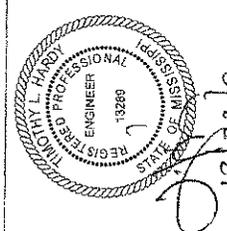
B. The complete road and site area will be cleared of heavy growth of grass, trees, shrubs and topsoil prior to foundation construction or placement of backfill or sub-base material.

C. Construct temporary construction zone along access drive.

D. The site area will be brought to sub-base construction elevation and the access road to base construction elevation prior to forming foundations.

F. If required, grade, seed, fertilize and mulch disturbed area immediately after bringing the site and access road to base course elevation. Water to ensure growth.

G. Remove gravel from temporary construction zone.



**GENERAL NOTES**

20103C BOWERON  
MADRIDIST, MISSISSIPPI  
FOR  
TOWERS OF MISSISSIPPI II, LLC  
DATE: 20103-011  
REV: AS NOTED  
SHEET NO. 61

**HARDY ENGINEERING, INC.**  
ENGINEERING AND CONSULTING  
209 LINDEN STREET, P.O. BOX 708  
TRUSSVILLE, AL 35173  
PHONE: (205) 655-1427 FAX: (205) 651-8022

C.E. PERSONS 07-14-09  
T.L. HARDY 11-18-09  
DATE: 20103-011  
SHEET NO. 61

**TOWERS OF MISSISSIPPI II, LLC**  
3150 BLACKLEY HWY, SPANISH FORK, ARKANSAS 74857

ITEM	REVISIONS	BY	CHK. BY	DATE

2.6 Submittals

- A. Before construction
  - If landscaping is applicable to the contract, submit two copies of the landscaping plan under nursery letterhead. If a landscape allowance was included in the contract, submit a itemized listing of proposed costs under nursery letterhead (Refer to site plan for landscaping requirement).
- After construction
  - Manufacturer's description of product on grass seed and fertilizer.
  - Landscaping warranty statement.

2.7 Warranty

- A. In addition to the warranty on all construction covered in the contract documents, the Contractor shall repair or replace any damaged or surrounding property caused by construction.
- B. Landscaping, if included within the scope of the contract, will be guaranteed for one year from date of final inspection.

PART 2 PRODUCTS

- A. Road and site materials:
  - Fill material - acceptable select fill shall be in accordance with local Department of Transportation standard specifications.
  - Soil herbicide shall be EPA registered of liquid composition and of pre emergence design.
  - Soil stabilizer fabric shall be MIRAFI - 500X.
- Equipment
  - Compacting shall be accomplished by mechanical means.
    - Larger areas shall be compacted by sheeps foot, vibratory or rubber tired rollers weighing at least five tons.
    - Smaller areas shall be compacted by power-driven, hand held tampers.

PART 3 EXCAVATION

- A. Local building inspection shall receive adequate notification in advance of concrete pours.

2.11 Installation

- A. The site and turnaround areas shall be at the sub-base course elevation prior to forming foundations. Grade or fill this site and access road as required in order that there is even distribution of spoils resulting from foundation excavations. The resulting grade will correspond with sub-base course, elevations are to be calculated from finished grades or slopes indicated.
- If any excess spoils will be cleared from job site and not spread beyond the limits of Owner / leased property unless authorized by project manager.
- The access road shall be brought to base course elevation prior to foundation construction to permit use. Compaction shall be done during construction of the site.
- Avoid creating depressions where water may pond.
- The contract shall be assumed to include grading, banking, ditching and unless otherwise indicated.
- When improving an existing access road, grade the existing road to remove any organic matter and smooth the surface before placing fill.
- Place fill or stone in six inch maximum lifts and compact before placing next lift.
- The finish grade, including top surface course, shall extend a minimum of one foot beyond the site fence and shall cover the area as indicated.
- Rip rap shall be applied to the side slopes of all fenced site areas, parking areas and to all other slopes greater than 2:1.
- Rip rap shall be applied to the sides of ditches or drainage swales.
- Rip rap entire ditch for six feet in all directions at culvert openings.
- Under no circumstances will ditches, swales or permit standing water immediately adjacent to site. If Owner designs or elevations conflict with this guidance the Owner should be advised immediately.
- If ditch lies with slopes greater than ten percent, mound diversionary headwalls in the ditch at culvert entrances 45 degrees off the ditch line. Rip rap ditch for six feet above the culvert entrance.

2.12 Field Quality Control

- A. Compaction shall be at least 95% of maximum density and within 2% of optimum moisture content in accordance with ASTM D-1557 test of settlement.
- All trees placed in conjunction with a landscape contract will be wrapped tied with burlap and secured to 2 inch x 2 inch x 4 foot wooden stakes extending two feet into the ground on four sides of the tree.

2.13 Fence

- A. A security fence is provided in order to inhibit unauthorized access to the site area.

2.14 Quality Assurance

- A. All steel materials utilized in conjunction with this specification will be galvanized or stainless steel. Weight of zinc coating on the fabric shall be not less than 1 ounce per square foot of material covered, ASTM A392, Class 1. Posts shall be hot-dipped in Grade E Zinc, 1.8 ounces per square foot.

2.15 Sequencing

- A. If the site area has been brought up to surface course elevation prior to fence construction, fence post excavation spoils must be controlled to preclude contamination of surface course.

PART 2 PRODUCTS

- A. Fence Material
  - All fabric, wire, rolls, poles, hardware and other steel materials shall be hot-dipped galvanized.
  - Fabric shall be six-foot high, two-inch chain link mesh of No. 9 gauge (0.148") wire. The fabric shall have a knuckled finish for the top and bottom selvages, fabric shall conform to the specifications of ASTM A-392 Class 1.
  - Barbed wire shall be double-strand, 12-1/2 gauge twisted wire, with 1 1/2 gauge 4 point round bars spaced on five-inch centers.
  - All posts shall be schedule - 40 galvanized steel pipe and shall be ASTM F108, Type 1.
  - Gate posts shall be expanded 12 inches, including dome cap, to provide for attachment of barbed wire.
  - All top and brace rails shall be 1 1/4" diameter schedule - 40 Type 1 pipe. Frames shall have welded corners.
  - Gate frames shall have a full-height vertical brace and a full-width horizontal brace, secured in place by use of gate brace clamps.
  - Gate hinges shall be merchant metal model 64-386 hinge adapter with model 6403, degree attachment.
  - The guide (batch assembly) shall be merchant metal model 2083.
  - Latches, stops and keepers shall be provided for all gates.
  - All stops shall have keepers capable of holding the gate leaf in the open position.
  - Double gates shall have a full height plunger bar with dome cap.
  - A No. 7 gauge zinc coated marcellled tension wire ASTM A824, Type II, shall be used at the bottom of the fabric, terminated with band clips at corner and gate posts.
  - A six inch by 1/2 inch diameter eye-bolt to hold tension wire will be placed at line posts.
  - Stretcher bars shall be hot dipped galvanized steel 3/16" x 3/4" or have equivalent cross sectional area.
  - All corner gate and end panels shall have a 3/8 inch truss rod with turnbuckles.
  - All posts except gate posts shall have a combination gage and barbed wire supporting arm. Gate posts shall have a dome cap.
  - Other hardware includes but may not be limited to the clips, band clips and tension band clips in conformance with CLPMI Manual.

PART 4 SPECIAL ITEMS

- A. Work shall be in accordance with the latest revision of the ACI-318, "Building Code Requirements for Reinforced Concrete."
- The concrete shall develop a minimum compressive strength of 4000 psi in 28 days.
- Proportions of concrete materials shall be suitable for the job and shall result in durable concrete for resistance to local anticipated aggressive actions. The durability requirements of ACI-318 shall be satisfied based on the conditions expected at the site.
- Concrete shall be placed in a manner that it will prevent segregation of concrete materials, infiltration of water or soil, and other occurrences that may decrease the strength or durability of the foundation.
- Free fall concrete may be used provided fall is vertical down without hitting the sides of the excavation, formwork, reinforcing bars, form ties, cage bracing, or other obstructions. Under no circumstances shall concrete fall through water.
- The maximum size of the aggregate shall not exceed a size suitable for the installation method utilized or 1/3-clear distance behind or between reinforcing. The maximum size may be increased to 2/3-clear distance provided workability and methods of consolidation such as vibrating will prevent honeycombs and voids.
- Lower boxes leveled using the double-nut system shall be grouted using Master Builders EMBOCO 636 grout or equivalent.
- For the lesser of 25 cubic yards or one day's placement, a minimum of one set of 4 concrete cylinders shall be cast in accordance with ASTM C-31 and ASTM C-39.
- A temporary protective steel casing will be required to keep the shaft open during construction and inspections prior to placing concrete. This casing should be extracted as the concrete is placed.
- Concrete shall be placed, worked and consolidated by suitable means around reinforcement, embedded items and into corners of forms.

FINISH - If applicable

- A. Refer to the site plans for size and location of fence and gates to be installed.
- Refer to Division 2 - concrete for specification of concrete and grout.
- Refer to site plan for applicable locations of access road gates.

PART 1 GENERAL

- A. Refer to the site plans for size and location of fence and gates to be installed.
- Refer to Division 2 - concrete for specification of concrete and grout.
- Refer to site plan for applicable locations of access road gates.

2.16 Before Construction

- A. Clear trees, brush and debris from site area and access road right of way (if required).
- Prior to other excavation and construction efforts clear site of organic material to a minimum of six inches below original ground level.
- Unless otherwise instructed by the Owner, remove trees, brush, and debris from the property on an authorized landfill.
- Prior to placement of fill or base materials, prior fill the soil.
- Where unstable soil conditions are encountered, cover cleared areas with stabilizer mat prior to placement of fill or base material.

2.17 Preparation

- A. Clear trees, brush and debris from site area and access road right of way (if required).
- Prior to other excavation and construction efforts clear site of organic material to a minimum of six inches below original ground level.
- Unless otherwise instructed by the Owner, remove trees, brush, and debris from the property on an authorized landfill.
- Prior to placement of fill or base materials, prior fill the soil.
- Where unstable soil conditions are encountered, cover cleared areas with stabilizer mat prior to placement of fill or base material.

2.18 Excavation

- A. Local building inspection shall receive adequate notification in advance of concrete pours.

2.19 Excavation

- A. Local building inspection shall receive adequate notification in advance of concrete pours.

2.20 Inspection

- A. Local building inspection shall receive adequate notification in advance of concrete pours.

2.21 Preparation

- A. Clear trees, brush and debris from site area and access road right of way (if required).
- Prior to other excavation and construction efforts clear site of organic material to a minimum of six inches below original ground level.
- Unless otherwise instructed by the Owner, remove trees, brush, and debris from the property on an authorized landfill.
- Prior to placement of fill or base materials, prior fill the soil.
- Where unstable soil conditions are encountered, cover cleared areas with stabilizer mat prior to placement of fill or base material.

2.22 Excavation

- A. Local building inspection shall receive adequate notification in advance of concrete pours.

2.23 Field Quality Control

- A. Compaction shall be at least 95% of maximum density and within 2% of optimum moisture content in accordance with ASTM D-1557 test of settlement.
- All trees placed in conjunction with a landscape contract will be wrapped tied with burlap and secured to 2 inch x 2 inch x 4 foot wooden stakes extending two feet into the ground on four sides of the tree.

2.24 Fence

- A. A security fence is provided in order to inhibit unauthorized access to the site area.

2.25 Installation

- A. The site and turnaround areas shall be at the sub-base course elevation prior to forming foundations. Grade or fill this site and access road as required in order that there is even distribution of spoils resulting from foundation excavations. The resulting grade will correspond with sub-base course, elevations are to be calculated from finished grades or slopes indicated.
- If any excess spoils will be cleared from job site and not spread beyond the limits of Owner / leased property unless authorized by project manager.
- The access road shall be brought to base course elevation prior to foundation construction to permit use. Compaction shall be done during construction of the site.
- Avoid creating depressions where water may pond.
- The contract shall be assumed to include grading, banking, ditching and unless otherwise indicated.
- When improving an existing access road, grade the existing road to remove any organic matter and smooth the surface before placing fill.
- Place fill or stone in six inch maximum lifts and compact before placing next lift.
- The finish grade, including top surface course, shall extend a minimum of one foot beyond the site fence and shall cover the area as indicated.
- Rip rap shall be applied to the side slopes of all fenced site areas, parking areas and to all other slopes greater than 2:1.
- Rip rap shall be applied to the sides of ditches or drainage swales.
- Rip rap entire ditch for six feet in all directions at culvert openings.
- Under no circumstances will ditches, swales or permit standing water immediately adjacent to site. If Owner designs or elevations conflict with this guidance the Owner should be advised immediately.
- If ditch lies with slopes greater than ten percent, mound diversionary headwalls in the ditch at culvert entrances 45 degrees off the ditch line. Rip rap ditch for six feet above the culvert entrance.

2.26 Field Quality Control

- A. Compaction shall be at least 95% of maximum density and within 2% of optimum moisture content in accordance with ASTM D-1557 test of settlement.
- All trees placed in conjunction with a landscape contract will be wrapped tied with burlap and secured to 2 inch x 2 inch x 4 foot wooden stakes extending two feet into the ground on four sides of the tree.

2.27 Fence

- A. A security fence is provided in order to inhibit unauthorized access to the site area.

2.28 Excavation

- A. Local building inspection shall receive adequate notification in advance of concrete pours.

2.29 Inspection

- A. Local building inspection shall receive adequate notification in advance of concrete pours.

2.30 Preparation

- A. Clear trees, brush and debris from site area and access road right of way (if required).
- Prior to other excavation and construction efforts clear site of organic material to a minimum of six inches below original ground level.
- Unless otherwise instructed by the Owner, remove trees, brush, and debris from the property on an authorized landfill.
- Prior to placement of fill or base materials, prior fill the soil.
- Where unstable soil conditions are encountered, cover cleared areas with stabilizer mat prior to placement of fill or base material.

2.31 Excavation

- A. Local building inspection shall receive adequate notification in advance of concrete pours.

2.32 Field Quality Control

- A. Compaction shall be at least 95% of maximum density and within 2% of optimum moisture content in accordance with ASTM D-1557 test of settlement.
- All trees placed in conjunction with a landscape contract will be wrapped tied with burlap and secured to 2 inch x 2 inch x 4 foot wooden stakes extending two feet into the ground on four sides of the tree.

2.33 Fence

- A. A security fence is provided in order to inhibit unauthorized access to the site area.

2.34 Installation

- A. The site and turnaround areas shall be at the sub-base course elevation prior to forming foundations. Grade or fill this site and access road as required in order that there is even distribution of spoils resulting from foundation excavations. The resulting grade will correspond with sub-base course, elevations are to be calculated from finished grades or slopes indicated.
- If any excess spoils will be cleared from job site and not spread beyond the limits of Owner / leased property unless authorized by project manager.
- The access road shall be brought to base course elevation prior to foundation construction to permit use. Compaction shall be done during construction of the site.
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- Rip rap entire ditch for six feet in all directions at culvert openings.
- Under no circumstances will ditches, swales or permit standing water immediately adjacent to site. If Owner designs or elevations conflict with this guidance the Owner should be advised immediately.
- If ditch lies with slopes greater than ten percent, mound diversionary headwalls in the ditch at culvert entrances 45 degrees off the ditch line. Rip rap ditch for six feet above the culvert entrance.

2.35 Field Quality Control

- A. Compaction shall be at least 95% of maximum density and within 2% of optimum moisture content in accordance with ASTM D-1557 test of settlement.
- All trees placed in conjunction with a landscape contract will be wrapped tied with burlap and secured to 2 inch x 2 inch x 4 foot wooden stakes extending two feet into the ground on four sides of the tree.

2.36 Fence

- A. A security fence is provided in order to inhibit unauthorized access to the site area.

2.37 Excavation

- A. Local building inspection shall receive adequate notification in advance of concrete pours.

2.38 Inspection

- A. Local building inspection shall receive adequate notification in advance of concrete pours.

2.39 Preparation

- A. Clear trees, brush and debris from site area and access road right of way (if required).
- Prior to other excavation and construction efforts clear site of organic material to a minimum of six inches below original ground level.
- Unless otherwise instructed by the Owner, remove trees, brush, and debris from the property on an authorized landfill.
- Prior to placement of fill or base materials, prior fill the soil.
- Where unstable soil conditions are encountered, cover cleared areas with stabilizer mat prior to placement of fill or base material.

2.40 Excavation

- A. Local building inspection shall receive adequate notification in advance of concrete pours.

2.41 Field Quality Control

- A. Compaction shall be at least 95% of maximum density and within 2% of optimum moisture content in accordance with ASTM D-1557 test of settlement.
- All trees placed in conjunction with a landscape contract will be wrapped tied with burlap and secured to 2 inch x 2 inch x 4 foot wooden stakes extending two feet into the ground on four sides of the tree.

2.42 Fence

- A. A security fence is provided in order to inhibit unauthorized access to the site area.

2.43 Installation

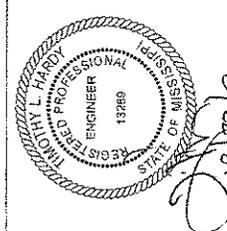
- A. The site and turnaround areas shall be at the sub-base course elevation prior to forming foundations. Grade or fill this site and access road as required in order that there is even distribution of spoils resulting from foundation excavations. The resulting grade will correspond with sub-base course, elevations are to be calculated from finished grades or slopes indicated.
- If any excess spoils will be cleared from job site and not spread beyond the limits of Owner / leased property unless authorized by project manager.
- The access road shall be brought to base course elevation prior to foundation construction to permit use. Compaction shall be done during construction of the site.
- Avoid creating depressions where water may pond.
- The contract shall be assumed to include grading, banking, ditching and unless otherwise indicated.
- When improving an existing access road, grade the existing road to remove any organic matter and smooth the surface before placing fill.
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- Rip rap entire ditch for six feet in all directions at culvert openings.
- Under no circumstances will ditches, swales or permit standing water immediately adjacent to site. If Owner designs or elevations conflict with this guidance the Owner should be advised immediately.
- If ditch lies with slopes greater than ten percent, mound diversionary headwalls in the ditch at culvert entrances 45 degrees off the ditch line. Rip rap ditch for six feet above the culvert entrance.

2.44 Field Quality Control

- A. Compaction shall be at least 95% of maximum density and within 2% of optimum moisture content in accordance with ASTM D-1557 test of settlement.
- All trees placed in conjunction with a landscape contract will be wrapped tied with burlap and secured to 2 inch x 2 inch x 4 foot wooden stakes extending two feet into the ground on four sides of the tree.

2.45 Fence

- A. A security fence is provided in order to inhibit unauthorized access to the site area.



GENERAL NOTES  
 20103C - BOWLERTON  
 WHEELHURST, MISSISSIPPI  
 FOR  
 TOWERS OF MISSISSIPPI II, LLC  
 20103.CN2 AS NOTED  
 SHEET NO. 62

HARDY ENGINEERING, INC.  
 ENGINEERING AND CONSULTING  
 209 JUDEN STREET, P.O. BOX 7406  
 TRUSSVILLE, AL 35173  
 PHONE: (205) 665-1427 FAX: (205) 661-8027

C.E. PERSONS 07-14-09  
 DATE  
 T.L. HARDY 11-18-09  
 DATE

TOWERS OF MISSISSIPPI II, LLC  
 3150 BLAKEY WAY, SPANISH FORT, ALABAMA 36527

ITEM	REVISIONS	BY	CHK. BY	DATE

**ANTENNA SYSTEM**

**PART 1 GENERAL**

**4.1 Work Included**

- A. Erect furnished tower as indicated in the drawings
- B. Lower shield tower as indicated in the drawings
- C. Erect antenna platform as indicated on drawings
- D. Install wave guide bridge as indicated on drawings
- E. Furnish the following work as specified under construction documents, but coordinate with other trades prior to bid:
  - 1. Finishing of opening into outside walls.
  - 2. Seal and coat all openings.
  - 3. Painting.
  - 4. Cutting and patching.

**4.2 Related Work**

- A. Furnish U.L. listed equipment where such is available, install in conformance with U.L. standards where applicable.
- B. EIA - Electrical Industries Association RS - 222, "Structural standards for steel antenna towers and antenna supporting structures".
- C. FAA - Federal Aviation Administration advisory circular, AC 7077460-1K, "Obstruction marking and lighting".
- D. FCC - Federal Communications Commission rules and regulations form 715, "Obstruction marking and lighting specification for antenna structures", and form 715A, "high intensity obstruction lighting specification for antenna structures".
- E. ASC - American Institute of Steel Construction specification for structural joints using ASTM A325 or A490 bolts.
- F. NEC - National Electrical Code - on tower lighting kits.
- G. UL - Underwriter's Laboratories approved
- H. In all cases, part 77 or the FAA rules and parts 17 and 22 of the FCC rules are applicable and in the event of conflict, supersede any other standards or specifications.

**4.3 Requirements of Regulatory Agencies**

- A. Furnish U.L. listed equipment where such is available, install in conformance with U.L. standards where applicable.
- B. EIA - Electrical Industries Association RS - 222, "Structural standards for steel antenna towers and antenna supporting structures".
- C. FAA - Federal Aviation Administration advisory circular, AC 7077460-1K, "Obstruction marking and lighting".
- D. FCC - Federal Communications Commission rules and regulations form 715, "Obstruction marking and lighting specification for antenna structures", and form 715A, "high intensity obstruction lighting specification for antenna structures".
- E. ASC - American Institute of Steel Construction specification for structural joints using ASTM A325 or A490 bolts.
- F. NEC - National Electrical Code - on tower lighting kits.
- G. UL - Underwriter's Laboratories approved
- H. In all cases, part 77 or the FAA rules and parts 17 and 22 of the FCC rules are applicable and in the event of conflict, supersede any other standards or specifications.

**MECHANICAL**

**PART 1 GENERAL**

- 1. Included - Work of this section generally includes provisions of labor, materials, equipment, accessories, necessary for installation of mechanical systems shown on the contract drawings and specified in the General Notes, intent of construction documents is to provide the Owner with a complete and operating facility, and any minor items omitted but obviously necessary to accomplish intent shall be provided whether or not shown or specified.
- 2. Related - The General Requirements division of the General Notes is hereby made a part of the work of this spec section. The requirements of this spec

**3.10 Protection**

- A. Upon completion of erection, inspect fence material and point field cuts or galvanizing breaks with galvanizing repair paint.
- B. ASTM-F1063 Standard Specification for Pipe, Steel Hot Dipped Zinc Coated (galvanized) Welded for Fence Structures.
- C. ASTM-F626 Standard Specifications for Fence Steel Chain Link Fence Fabric.
- D. ASTM-A392 Standard Specification for Zinc Coated Steel Chain Link Fence Fabric.
- E. ASTM-A817 Standard Specification for Metallic Coated Steel Wire for Chain Link Fence Fabric, Type I, Aluminum Coated.
- F. ASTM-A525 Standard specification for steel sheet zinc coated (galvanized) by the hot-dipped process.
- G. ASTM-A570 Standard Specification for hot-rolled carbon steel sheet and strip structural quality.
- H. ASTM-A360 Standard Specification for Aluminum Coated Steel Barbed Wire, Type I.

**3.11 Equipment**

- A. Upon completion of erection, inspect fence material and point field cuts or galvanizing breaks with galvanizing repair paint.
- B. ASTM-F1063 Standard Specification for Pipe, Steel Hot Dipped Zinc Coated (galvanized) Welded for Fence Structures.
- C. ASTM-F626 Standard Specifications for Fence Steel Chain Link Fence Fabric.
- D. ASTM-A392 Standard Specification for Zinc Coated Steel Chain Link Fence Fabric.
- E. ASTM-A817 Standard Specification for Metallic Coated Steel Wire for Chain Link Fence Fabric, Type I, Aluminum Coated.
- F. ASTM-A525 Standard specification for steel sheet zinc coated (galvanized) by the hot-dipped process.
- G. ASTM-A570 Standard Specification for hot-rolled carbon steel sheet and strip structural quality.
- H. ASTM-A360 Standard Specification for Aluminum Coated Steel Barbed Wire, Type I.

**section apply to the work of all sections of division 15.**

- A. Work performed by others includes installation of electrical equipment, except as noted otherwise on drawings or in specification.
- B. Electrical division 15
- C. Ordinances and Codes
- D. All work shall be executed and inspected in accordance with all underwriter's, public utilities, local and state codes and regulations applicable to the trade affected. Recommendations of AFA, NFPA, OSHA and ASHRAE and applicable state energy code compliance shall be rigidly followed.
- E. Should any change in the plans and specifications be required to comply with these regulations, the contractor shall notify the Owner before submitting his bid. After entering into contract with the Owner, the contractor will be held accountable to complete all work necessary to meet these requirements of his own expense.
- F. Where the work required by the drawings and specifications is above the standard required, it shall be done as shown or specified.
- G. Permits - The contractor shall be provided building permits in connection with the work hereafter specified and at completion of the work furnish the Owner with the final certificate of inspection.
- H. Drawings - The drawings indicate the general arrangement of the proposed work. Details of proposed apparatus due to actual field conditions at other sources shall be provided for. No extras will be paid for correcting faulty, poorly arranged, or poorly coordinated work.
- I. Site Examination - The contractor shall visit the premises so as to ascertain the existing conditions before submitting his bid. No extras will be allowed for his lack of knowledge of these conditions.
- J. Complete Installation - The contractor shall furnish and install all incidental parts, valves, fittings, pumps, control valves and control wiring required for the proper function of all component parts. The complete installation shall function smoothly and in conformity with the full extent of the plans and specifications. The contractor shall complete his assignment as rapidly as general construction permits. All filters, strainers, and safety devices shall be properly installed before starting equipment. The Owner shall be left with a new set of filters at final acceptance.
- K. Coordination - Before any equipment is purchased or fabricated and before running and/or fabricating any lines of piping or ductwork, the mechanical contractor and his subcontractors shall assure themselves that they can be run as contemplated. Because of the small scale of the drawings, it is not possible to indicate all offsets, fittings and accessories that may be required. The mechanical contractor and his subcontractors shall carefully investigate all other mechanical, and electrical and structural drawings and finish conditions affecting all of their work accordingly, furnishing such fittings, valves, duct connections, offsets and accessories as may be required to meet such conditions, at no additional cost.
- L. Temporary Heat - Arrangements for usage of system for temporary heat shall be coordinated with general contractor. System shall not be used for temporary heat unless all temporary filters are installed.

**10. Submittals**

- A. Within 5 days after proposal acceptance the contractor shall submit to the Owner for approval two (2) copies of shop drawings on each item of equipment whether as specified or substituted. Shop drawings shall give overall dimensions, weights, metal gauges, materials, certified capacities, brake HP, motor HP, tube diameters, friction drop and horsepower data. The contractor shall be responsible for checking shop drawings before submitting for approval. The Owner's check shall be general and does not relieve the contractor of final responsibility for a complete job to the intent of plans and specifications. All control diagrams and equipment should be assembled in one submittal.
- B. Substitution of Equipment
  - 1. Bids shall be based on providing all equipment mentioned by brand name in plans and specifications. No substitutions shall be considered before bidding.
  - 2. The contractor shall attach a list of proposed substitutions, giving the amount to be added or deducted to contract price for each item. Complete engineering data shall be submitted on each request for substitution item. Substitute items shall be equal or better than items mentioned in regard to all accessories, capacities, durability and appearance. Contractor shall pay all costs incurred to make substitute items fit required space with maintenance clearances - piping, sheet metal, electrical or building alteration shall be included in said costs.
  - 3. All standard accessories as well as specified extras shall be provided with equipment.
  - 4. Guarantee - All material and workmanship installed and/or furnished under this section of work shall be guaranteed against defects for a period of one year from date of acceptance by Owner. Any defects or faulty workmanship shall be the contractor's responsibility and shall be corrected entirely at his expense.

**PART 2 - PRODUCTS**

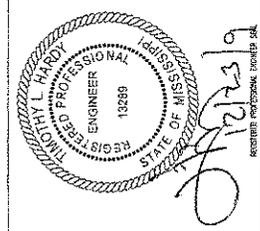
- 1. Approved manufacturers - approved by name listed in this specification does not imply that the manufacturer standard product meets the intent of the drawings and specification. It is the contractor's responsibility to provide all necessary alterations, materials, labor, etc., as approved by the Owner to meet the full intent of the drawings and specifications. This is to include, but not necessarily be limited to electrical, structural, mechanical, and architectural alterations and revisions necessary to provide a complete and operating facility at no additional costs to the Owner.
- 2. Materials - Materials throughout shall be new and of the best grades available. They shall be standard catalog items and manufactured by nationally known manufacturers of the items specified. Contractor shall receive and be responsible for all Owner furnished equipment and provide rough-in and final connections for all mechanical equipment furnished under this contract or by others. The contractor shall provide a suitable shed for the storage of all materials during progress of the job.
- 3. Solder - All solder used on sweat fittings shall be 95-5 hard solder unless brazing or silver solder is specified. All buried copper piping shall be silver soldered.

**Temporary filters and operation of units shall be provided by the general contractor.**

- A. Within 5 days after proposal acceptance the contractor shall submit to the Owner for approval two (2) copies of shop drawings on each item of equipment whether as specified or substituted. Shop drawings shall give overall dimensions, weights, metal gauges, materials, certified capacities, brake HP, motor HP, tube diameters, friction drop and horsepower data. The contractor shall be responsible for checking shop drawings before submitting for approval. The Owner's check shall be general and does not relieve the contractor of final responsibility for a complete job to the intent of plans and specifications. All control diagrams and equipment should be assembled in one submittal.
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  - 1. Bids shall be based on providing all equipment mentioned by brand name in plans and specifications. No substitutions shall be considered before bidding.
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- 3. Solder - All solder used on sweat fittings shall be 95-5 hard solder unless brazing or silver solder is specified. All buried copper piping shall be silver soldered.



**GENERAL NOTES**  
 20103C - BOWERTON  
 HAZLEHURST, MISSISSIPPI  
 TOWERS OF MISSISSIPPI II, LLC  
 20103.CNO AS NOTED G-3

**HARDY ENGINEERING, INC.**  
 ENGINEERING AND CONSULTING  
 269 LINDEN STREET, P.O. BOX 708  
 TRUSSVILLE, AL 35713  
 PHONE: (205) 655-1427 FAX: (205) 661-9027

C.E. PERSONS 07-14-09  
 T.L. HARDY 11-18-09  
 PREPARED BY DATE

**TOWERS OF MISSISSIPPI II, LLC**  
 31860 BALEY WAY, SPANISH FORT, ALABAMA 36527

ITEM	REVISIONS	BY	CHK	DATE

4. Floor, Ceiling, Pipes, Flanges - Provide tight fitting floor and ceiling joints on pipes passing through walls, ceilings, floors, walls or concrete in finished areas. Provide wall and ceiling flanges for ducts in finished areas.

5. Pipe Hangers, Supports - Provide hangers, supports, braces by Ginnell, Fee and Mason, Graber, Eaton, Unistrut, Basin Engineers, Inc. to prevent undue strain, stresses, noise, vibration.

**PART 3 - EXECUTION**

1. Workmanship

A. Work throughout shall be performed by men skilled in the installation of the various trades of the work herein specified.

B. All piping and ductwork shall be run concealed in finished areas except where noted otherwise or as chrome plated plumbing fixture connections.

2. Curb, Boxes, Supports - Mop, curbs, openings, and equipment supports will be provided under the spread section of this contract only where shown on architectural or structural plans. All other supports, curbs, and boxes shall be provided by mechanical contractor for all mechanical equipment. Equipment shall be supported per manufacturer's written recommendations for noise-free installation.

3. Removal of Existing Work - All existing mechanical equipment, piping, etc., removed by the contractor shall be the property of the building. Such items will be disposed of at the building owner's direction.

4. Removal of Rubbish - On completion of his work, the contractor shall remove all of his tools, scaffolding, debris, etc., from the grounds and leave the premises perfectly clean.

5. Operating and Maintenance Instructions - Upon completion, the contractor shall make up a set of operating and maintenance instructions covering all mechanical equipment with moving or movable parts including general operating or heating, plumbing and cooling systems and shall give the Owner four (4) copies of these instructions. Manufacturer's printed operations and maintenance instructions shall also be provided for each piece of equipment.

6. Submittal of bid indicates contractor is cognizant of all job site conditions and work to be performed under this contract.

7. Contractor shall perform all verification observations test, and examination work prior to the ordering of the electrical equipment and the actual construction. Contractor shall issue a written notice of all findings to the architect listing all malfunctions, faulty equipment and discrepancies.

8. Heights shall be verified with Owner prior to installation.

9. These plans are diagrammatic only, follow as closely as possible.

10. Each conductor of every system shall be permanently tagged in each panel board, pull box, I-box, switch box, etc., in compliance with occupational safety and health act (O.S.H.A.).

11. Contractor shall provide all labor, materials, insurance, equipment, installation, construction tools, transportation, etc., for a complete and properly operative system energized throughout and as indicated on drawings, as specified herein and/or as otherwise required.

12. All materials and equipment shall be new and in perfect condition when installed and shall be of the best class and of the same manufacturer throughout for each class or group of equipment. Materials shall be listed "J" where subject to such approval. Materials shall meet with approval of the division of industrial safety and all governing bodies having jurisdiction. Materials shall be manufactured in accordance with applicable standards established by ANSI, NEMA and IEEE.

13. All conduit installed may be surface mounted unless otherwise noted.

14. Contractor shall secure all necessary building permits and governing state, county and local codes and O.S.H.A.

15. Contractor shall pay all required fees.

16. Complete job shall be guaranteed for a period of one (1) year after the date of job acceptance by Owner. Any work, material or equipment found to be faulty during that period shall be corrected at once, upon written notification, at the expense of the contractor.

17. All conduit only (C.O.) shall have a pull wire or rope.

18. Provide project manager with one set of complete electrical as installed drawings at the completion of the job, showing actual dimensions, ratings and circuits.

19. All brochures, operating manuals, catalogs, shop drawings, etc., shall be turned over to the Owner at job completion.

20. Use 1-tap connections on all multi-circuits with common neutral conductor for lighting fixtures.

21. All conductors shall be copper.

22. All circuit breakers, fuses and electrical equipment shall have an interrupting short circuit current to which they may be subjected, and a minimum of 10,000 A.I.C.

23. The entire electrical installation shall be grounded as required by all applicable codes.

24. Patch, repair and paint any area that has been damaged in the course of the electrical work, including the back filling of all trenches after inspection is approved.

25. Penetrations in fire rated walls shall be fire stopped in accordance with applicable local building codes.

26. Receptacle shall be 20 ampere, 125 volt, a.c.

27. Wall switches shall be single-pole.

28. Wire and cable conductors shall be copper #12 awg. minimum unless specifically noted otherwise on drawings.

29. Grounding conductors shall be solid tinned copper and annealed #2.

30. Motor, socket, ampere, voltage, number of phases shall be as noted on the drawings. Manufactured by square D company, or approved equal.

31. All materials shall be U.L. listed.

32. Conduit

A. All exposed conduit shall be neatly installed and run parallel or perpendicular to structural elements. Supports and mounting hardware shall be hot dipped galvanized steel.

B. Contractor shall provide all labor, materials, insurance, equipment, installation, construction tools, transportation, etc., for a complete and properly operative system energized throughout and as indicated on drawings, as specified herein and/or as otherwise required.

C. All materials and equipment shall be new and in perfect condition when installed and shall be of the best class and of the same manufacturer throughout for each class or group of equipment. Materials shall be listed "J" where subject to such approval. Materials shall meet with approval of the division of industrial safety and all governing bodies having jurisdiction. Materials shall be manufactured in accordance with applicable standards established by ANSI, NEMA and IEEE.

D. Conduit shall be installed in conduit. Conduit shall be rigid steel or schedule 40 PVC as indicated on the drawings.

E. Underground conduits shall be rigid steel or schedule 40 PVC as indicated on the drawings.

F. All conduits runs shall use approved couplings and connectors. Provide insulated bushing for all conduit terminations. All conduit runs in a wet location shall have waterproof fittings, requirements. All conduits shall be sized as required by NEC.

G. Boring depth of all conduits shall be as required by code for each specific conduit type and application.

H. Conduit routes are schematic. Contractor shall verify before bid. Coordinate route with wireless carrier and building owner.

I. All electrical equipment shall be labeled with permanent engraved plastic labels.

J. Coordinate the electrical service with the utility company.

K. Upon completion of work, conduct continuity, short circuit, and fall potential ground tests for approval. Submit test reports to project manager. Clean premises or all debris resulting from work and leave work in a complete and unobstructed condition.

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B. All interior grounding and bonding conductors shall be connected by two holes crimp type (compression) connections (except for the ACEG and ground rod) mechanical connections, fitting or connections that depend solely on solder shall not be used.

2. Ground Rods

A. All ground rods shall be 3/4" diameter x 10'-0" long "Copperweld" or approved equal at the number and at locations indicated. Ground rods shall be driven full length vertical in undisturbed earth. All ground rods to be 10' apart unless otherwise noted.

3. Ground Bars

A. All ground bars shall be 1/4" thick bare copper plate end of size indicated on drawings.

B. Cables

A. All ground cable shall be standard TND solid bare copper plate end of size indicated on drawings.

When the direction of the conductor must change, it shall be done gradually. The curvature of the turn shall be done in accordance with the following chart:

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No. 6 awg to no. 4 awg	3"	
No. 6 awg to no. 1/0 awg	6"	
No. 2/0 awg to 750 mcm	1"	
Bus Bar	No Restrictions	

5. Ground Ring

A. The ground ring encircling the building shall be minimum size of no. 2 awg bare copper conductor in direct contact with the earth at a depth of not less than 30 inches (min.) conductor bands shall have a minimum radius of 8 inches.

B. All external ground rings are to be joined together at all locations shall be "coldweld". NO LUGS OR CLAMPS WILL BE ACCEPTED.

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A. Ground all sections of fence and gate as indicated on drawings. Ground each gate post and corner post. All other connections for the ground grid system shall be made by the "coldweld" process, and installed per manufacturer's recommendations and procedures.

B. Install signage where specified

C. Provide combination locks set to TOWERS OF MISSISSIPPI's specification where required

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2. Contractor shall perform all verification observations test, and examination work prior to the ordering of the electrical equipment and the actual construction. Contractor shall issue a written notice of all findings to the architect listing all malfunctions, faulty equipment and discrepancies.

3. Heights shall be verified with Owner prior to installation.

4. These plans are diagrammatic only, follow as closely as possible.

5. Each conductor of every system shall be permanently tagged in each panel board, pull box, I-box, switch box, etc., in compliance with occupational safety and health act (O.S.H.A.).

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12. All materials and equipment shall be new and in perfect condition when installed and shall be of the best class and of the same manufacturer throughout for each class or group of equipment. Materials shall be listed "J" where subject to such approval. Materials shall meet with approval of the division of industrial safety and all governing bodies having jurisdiction. Materials shall be manufactured in accordance with applicable standards established by ANSI, NEMA and IEEE.

13. All conduit installed may be surface mounted unless otherwise noted.

14. Contractor shall secure all necessary building permits and governing state, county and local codes and O.S.H.A.

15. Contractor shall pay all required fees.

16. Complete job shall be guaranteed for a period of one (1) year after the date of job acceptance by Owner. Any work, material or equipment found to be faulty during that period shall be corrected at once, upon written notification, at the expense of the contractor.

17. All conduit only (C.O.) shall have a pull wire or rope.

18. Provide project manager with one set of complete electrical as installed drawings at the completion of the job, showing actual dimensions, ratings and circuits.

19. All brochures, operating manuals, catalogs, shop drawings, etc., shall be turned over to the Owner at job completion.

20. Use 1-tap connections on all multi-circuits with common neutral conductor for lighting fixtures.

21. All conductors shall be copper.

22. All circuit breakers, fuses and electrical equipment shall have an interrupting short circuit current to which they may be subjected, and a minimum of 10,000 A.I.C.

23. The entire electrical installation shall be grounded as required by all applicable codes.

24. Patch, repair and paint any area that has been damaged in the course of the electrical work, including the back filling of all trenches after inspection is approved.

25. Penetrations in fire rated walls shall be fire stopped in accordance with applicable local building codes.

26. Receptacle shall be 20 ampere, 125 volt, a.c.

27. Wall switches shall be single-pole.

28. Wire and cable conductors shall be copper #12 awg. minimum unless specifically noted otherwise on drawings.

29. Grounding conductors shall be solid tinned copper and annealed #2.

30. Motor, socket, ampere, voltage, number of phases shall be as noted on the drawings. Manufactured by square D company, or approved equal.

31. All materials shall be U.L. listed.

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A. All exposed conduit shall be neatly installed and run parallel or perpendicular to structural elements. Supports and mounting hardware shall be hot dipped galvanized steel.

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E. Underground conduits shall be rigid steel or schedule 40 PVC as indicated on the drawings.

F. All conduits runs shall use approved couplings and connectors. Provide insulated bushing for all conduit terminations. All conduit runs in a wet location shall have waterproof fittings, requirements. All conduits shall be sized as required by NEC.

G. Boring depth of all conduits shall be as required by code for each specific conduit type and application.

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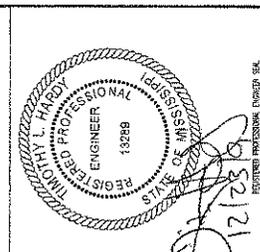
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12/23/09

DATE: 2010.03.04

SCALE: AS NOTED

PROJECT: 2010.03.04

NO. 64

GENERAL NOTES

2010C - BOWERTON HAZELHURST, MISSISSIPPI

TOWERS OF MISSISSIPPI II, LLC

ENGINEERING AND CONSULTING

209 LINTON STREET, P.O. BOX 708

TRUSSVILLE, AL 35173

PHONE: (205) 856-1427 FAX: (205) 661-8627

GENERAL ENGINEERING, INC.

07-14-09

11-18-09

C.E. PERSONS

T. L. HARDY

TOWERS OF MISSISSIPPI II, LLC

3180 BLANKET WAY, SPANISH FORT, ALABAMA 36527

REVISIONS

BY

CHK. BY

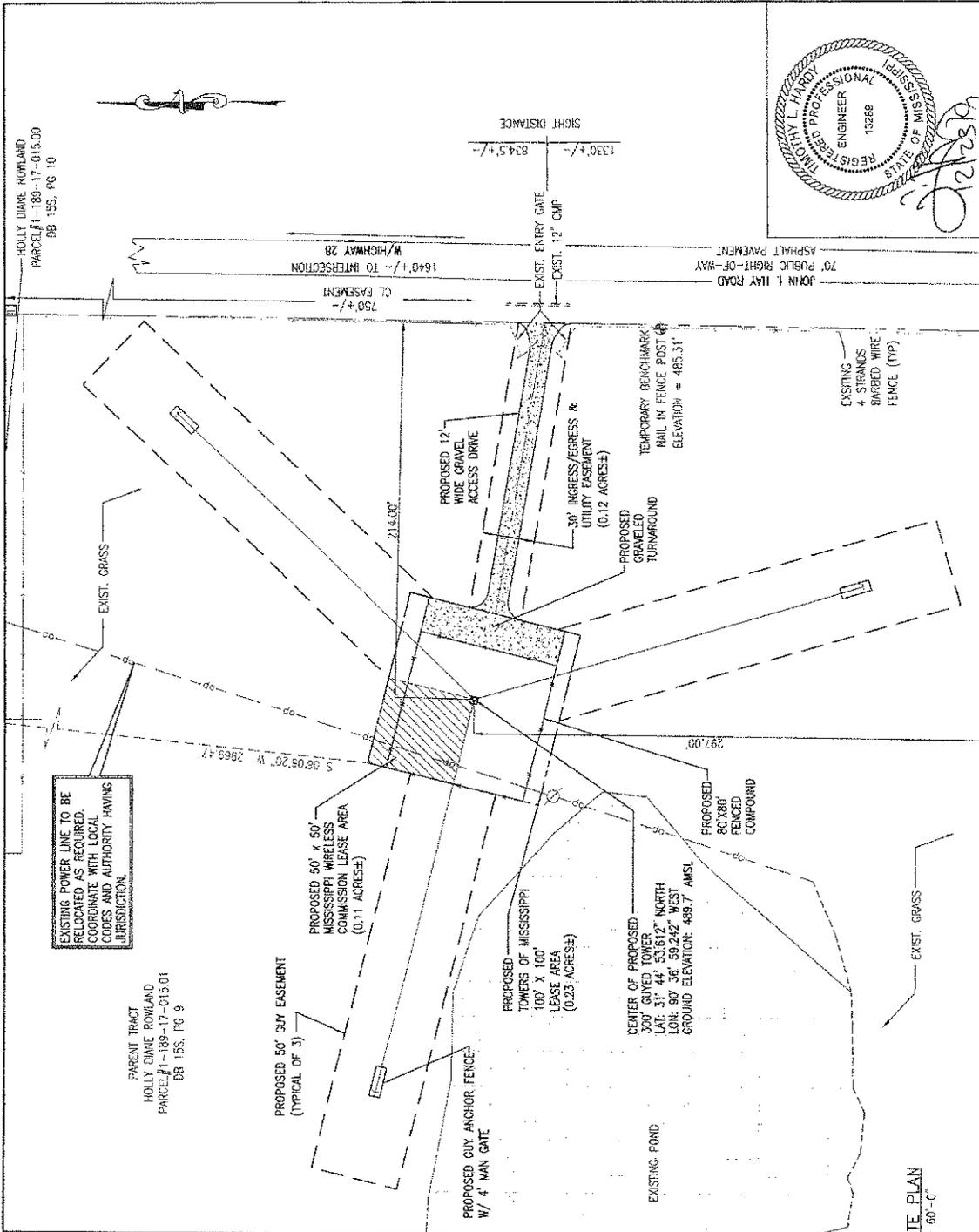
DATE

**SITE NOTES:**

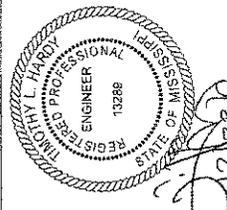
1. THE CONTRACTOR IS TO VERIFY THAT ALL EXISTING TOPOGRAPHY AND HORIZONTAL GEOMETRY IS AS INDICATED ON THESE DRAWINGS. THE CONTRACTOR IS TO ESTABLISH THE EXISTENCE AND LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITIES AND SERVICES. IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES OR INTERFERENCES WHICH AFFECT THE WORK OF THIS CONTRACT.
2. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES, CODES, AND REGULATIONS.
3. THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR CONTAINMENT OF SEDIMENTS AND CONTROL OF EROSION ON SITE. ANY DAMAGE TO ADJACENT OR DOWNSTREAM PROPERTIES WILL BE CORRECTED BY THE CONTRACTOR AT NO EXPENSE TO OWNER.
4. THE CONTRACTOR IS TO MAINTAIN ADEQUATE DRAINAGE AT ALL TIMES. DO NOT ALLOW WATER TO STAND OR FLOOD. ANY DAMAGE TO STRUCTURES OR WORK ON THE SITE CAUSED BY INADEQUATE MAINTENANCE OF DRAINAGE PROVISION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND ANY COST ASSOCIATED WITH REPAIRS FOR SUCH DAMAGE WILL BE AT THE CONTRACTOR'S EXPENSE.
5. ALL WASTE MATERIAL SHALL BE PROPERLY DISPOSED OF OFF SITE OR AS DIRECTED BY THE CONSTRUCTION MANAGER AND IN ACCORDANCE WITH JURISDICTIONAL AUTHORITIES.
6. SEED AND MULCH ALL DISTURBED AREAS NOT COVERED BY OTHER MATERIALS AS TO RESTORE DAMAGED PROPERTY BACK TO ORIGINAL CONDITION.
7. THE CONTRACTOR SHALL BE RESPONSIBLE TO CORRECT ALL DAMAGE TO THE SITE SUBSEQUENT TO THE INSTALLATION OF THE POWER AND TELCO LINES.
8. THE CONTRACTOR IS TO REMOVE ALL TREES AND STUMPS WITHIN ACCESS EASEMENT AND LEASE AREA.
9. TREES DAMAGED OR REMOVED OUTSIDE LEASE AREA OR ACCESS EASEMENT SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

**LEGEND**

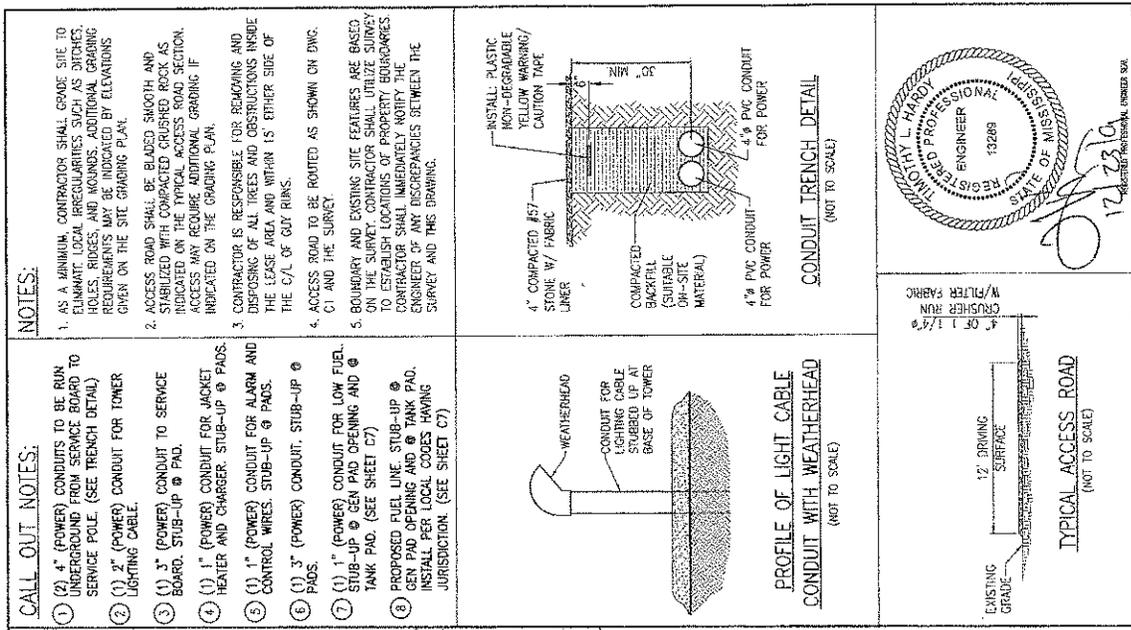
	POWER UTILITY POLE
	TELCO BOX/PEDESTAL
	CHAIN LINK FENCE
	LEASE LINE
	EASEMENT LINE



**OVERALL SITE PLAN**  
SCALE: 1" = 60'-0"



<p><b>TOWERS OF MISSISSIPPI II, LLC</b> 31560 BANGLEY WAY, SPANISH FORT, ALABAMA 36527</p>	<p><b>HARDY ENGINEERING, INC.</b> ENGINEERING AND CONSULTING 209 UNDER STREET, P.O. BOX 709 TRUSSVILLE, AL 35173 PHONE: (206) 655-1427 FAX: (206) 661-0027</p>	<p>DATE: 07-14-09 BY: C.E. PERSONS DATE: 11-18-09 BY: T.L. HARDY</p>	<p>PROJECT: 20103.00 SHEET: AS NOTED DATE: 2010.00</p>
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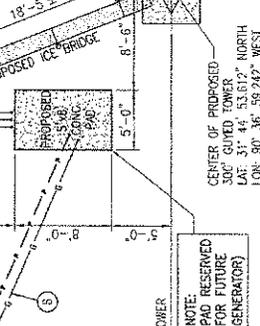
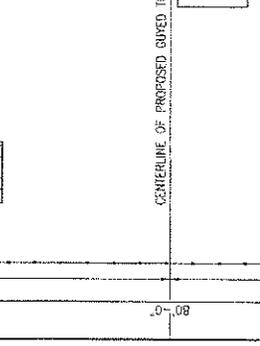
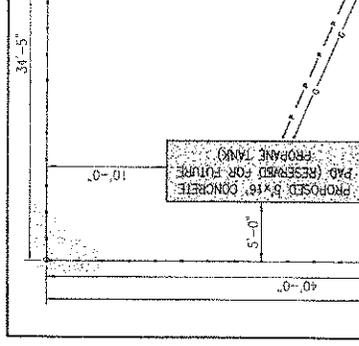


**CALL OUT NOTES:**

1. (2) 4" (POWER) CONDUITS TO BE RUN UNDERGROUND FROM SERVICE BOARD TO SERVICE POLE. (SEE TRENCH DETAIL)
2. (1) 3" (POWER) CONDUIT FOR TOWER LIGHTING CABLE.
3. (1) 3" (POWER) CONDUIT TO SERVICE BOARD, STUB-UP @ PAD.
4. (1) 1" (POWER) CONDUIT FOR JACKET HEATER AND CHARGER, STUB-UP @ PADS.
5. (1) 1" (POWER) CONDUIT FOR ALARM AND CONTROL WIRES, STUB-UP @ PADS.
6. (1) 3" (POWER) CONDUIT, STUB-UP @ PADS.
7. (1) 1" (POWER) CONDUIT FOR LOW FUEL STUB-UP @ GEN PAD OPENING AND @ TANK PAD.
8. PROPOSED FUEL LINE STUB-UP @ GEN PAD OPENING AND @ TANK PAD. INSTALL PER LOCAL CODES HAVING JURISDICTION. (SEE SHEET C7)

**NOTES:**

1. AS A MINIMUM, CONTRACTOR SHALL GRADE SITE TO ELIMINATE LOCAL IRREGULARITIES SUCH AS DITCHES, HOLES, RIDGES, AND MOUNDS. ADDITIONAL GRADING REQUIREMENTS MAY BE INDICATED BY ELEVATIONS GIVEN ON THE SITE GRADING PLAN.
2. ACCESS ROAD SHALL BE BLADED SMOOTH AND STABILIZED WITH COMPACTED CRUSHED ROCK AS INDICATED ON THE TYPICAL ACCESS ROAD SECTION. ACCESS MAY REQUIRE ADDITIONAL GRADING IF INDICATED ON THE GRADING PLAN.
3. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSING OF ALL TREES AND OBSTRUCTIONS INSIDE THE LEASE AREA AND WITHIN 15' EITHER SIDE OF THE C/L OF GUY RINKS.
4. ACCESS ROAD TO BE ROUTED AS SHOWN ON DWG. C1 AND THE SURVEY.
5. BOUNDARY AND EXISTING SITE FEATURES ARE BASED ON THE SURVEY. CONTRACTOR SHALL UTILIZE SURVEY TO ESTABLISH LOCATIONS OF PROPERTY BOUNDARIES. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE SURVEY AND THIS DRAWING.



**DETAILLED SITE LAYOUT**  
(SCALE: 1" = 10'-0")

**REVISIONS**

NO.	BY	CHK. BY	DATE

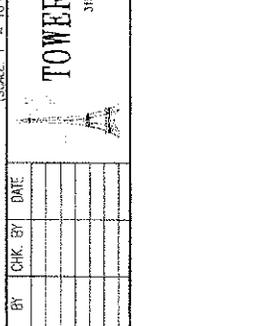
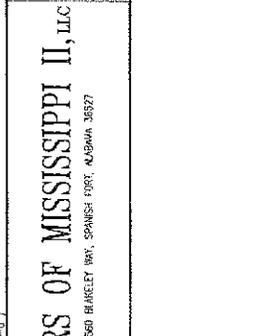
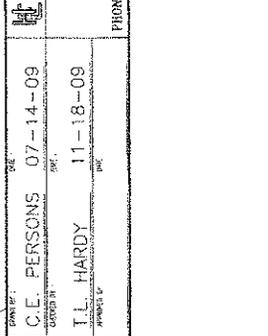
**TOWERS OF MISSISSIPPI II, LLC**  
31560 BEECHLEY WAY, SPANISH FORT, ALABAMA 36577

**C.E. PERSONS** 07-14-09  
DESIGNED BY

**J.L. HARDY** 11-18-09  
PROJECT LEADER

**NOTES:**

1. AS A MINIMUM, CONTRACTOR SHALL GRADE SITE TO ELIMINATE LOCAL IRREGULARITIES SUCH AS DITCHES, HOLES, RIDGES, AND MOUNDS. ADDITIONAL GRADING REQUIREMENTS MAY BE INDICATED BY ELEVATIONS GIVEN ON THE SITE GRADING PLAN.
2. ACCESS ROAD SHALL BE BLADED SMOOTH AND STABILIZED WITH COMPACTED CRUSHED ROCK AS INDICATED ON THE TYPICAL ACCESS ROAD SECTION. ACCESS MAY REQUIRE ADDITIONAL GRADING IF INDICATED ON THE GRADING PLAN.
3. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSING OF ALL TREES AND OBSTRUCTIONS INSIDE THE LEASE AREA AND WITHIN 15' EITHER SIDE OF THE C/L OF GUY RINKS.
4. ACCESS ROAD TO BE ROUTED AS SHOWN ON DWG. C1 AND THE SURVEY.
5. BOUNDARY AND EXISTING SITE FEATURES ARE BASED ON THE SURVEY. CONTRACTOR SHALL UTILIZE SURVEY TO ESTABLISH LOCATIONS OF PROPERTY BOUNDARIES. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE SURVEY AND THIS DRAWING.



**DETAILLED SITE LAYOUT**  
(SCALE: 1" = 10'-0")

**REVISIONS**

NO.	BY	CHK. BY	DATE

**TOWERS OF MISSISSIPPI II, LLC**  
31560 BEECHLEY WAY, SPANISH FORT, ALABAMA 36577

**C.E. PERSONS** 07-14-09  
DESIGNED BY

**J.L. HARDY** 11-18-09  
PROJECT LEADER

**HARDY ENGINEERING, INC.**  
ENGINEERING AND CONSULTING  
209 LINDEN STREET, P.O. BOX 700  
TRUSSVILLE, AL 35173  
PHONE: (205) 656-1427 FAX: (205) 661-0027

**JIMMY L. HARDY**  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF MISSISSIPPI  
13298

20103C - BOWETON  
HAZLEHURST, MISSISSIPPI  
FOR  
TOWERS OF MISSISSIPPI II, LLC

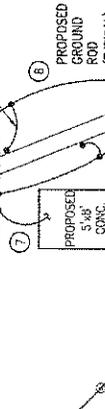
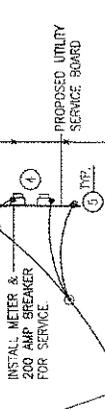
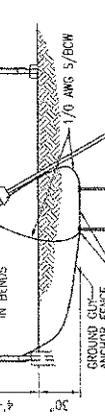
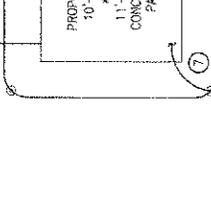
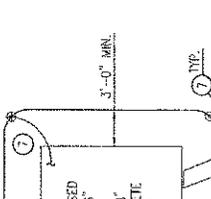
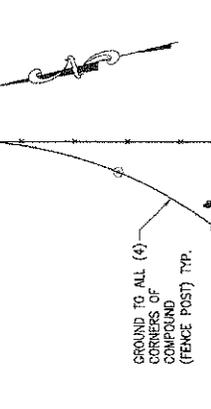
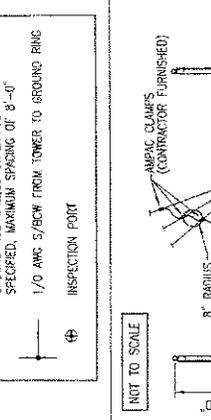
DATE: 2010.03.01  
SCALE: AS NOTED  
SHEET NO: C1

**CALL-OUT NOTES:**

- TOWER STRUCTURE GROUND, 3 PLACES TYP. REMOVE ZINC PLATING AND COWELD TO BASE PLATE OF TOWER.
- FENCE GROUND CONNECTIONS. REMOVE ZINC PLATING FROM FENCE CORNERS. CONNECTIONS ARE MADE USING A FILE OR ROTARY FILE (BURR) IN ELECTRIC DRILL AFTER CASWELD IS COMPLETED COVER AREA USING SPRAY ZINC OR COLD GALVANIZING SPRAY PAINT.
- MINIMUM SPACING OF TOWER RING GROUND FROM TOWER FOUNDATION 24" INCHES MIN.
- NEUTRAL-GROUND BOND AT SERVICE DISCONNECT.
- GROUND SERVICE BOARD / ICE BRIDGE POSTS
- BOND FENCE TO GATE WITH AWS WELDING CABLE
- EQUIPMENT GROUND LEAD CONNECTION W/ FINAL  $\phi$  END FOR FUTURE EQUIPMENT CONNECTION (AS SHOWN)
- PROPOSED SHLETER GROUNDING RING TO TOWER GROUND RING CONNECTION

**GENERAL NOTES:**

- LAYOUT SHOWN IS REPRESENTATIVE FOR A TYPICAL SITE. SEE SITE PLAN FOR ACTUAL EQUIPMENT LAYOUT.
- GROUND RING TO EARTH SHALL BE 5 OHMS OR LESS. ADDITIONAL GROUND RODS MAY HAVE TO BE ADDED TO THE INITIAL 3/4" x 10" RODS. USE TEMPORARY BOLTED CONNECTION TO ROD AND PERFORM GROUND RESISTANCE TEST.
- ALL GROUNDING CONDUCTOR SWEEPS SHALL BE SMOOTH WITH NO SHARP BENDS (8" MIN. BEND RADIUS). SWEEPS SHALL BE CAD WELDED TO GROUND RING WITH PARALLEL CAD WELD.
- ALL CAD WELDS TO BURIED GROUND RING SHALL BE OF PARALLEL TYPE. NO TEE CONNECTIONS TO BE USED.
- USE DE-OX OR RECALOR COMPOUND BETWEEN ALL GROUNDING LUG CONNECTIONS. DO NOT COVER LUGS OR HARDWARE WITH COMPOUND.
- ALL MOUNTING & CONNECTING HARDWARE FOR GROUNDING TO BE STAINLESS STEEL ONLY, NO PLATED OR GALVANIZED HARDWARE IS TO BE USED.
- GROUNDING CONDUCTORS TO BE BURIED A MINIMUM OF 30" DEEP UNLESS OTHERWISE SPECIFIED BY LOCAL CODE.
- ALL GROUNDING CONDUCTORS TO 1/0 AWG 5/BCHW CONDUCTORS UNLESS OTHERWISE SPECIFIED. DO NOT USE COMPRESSED AIR MECHANICAL LIFE LUGS.
- USE ONLY 2-HOLE CAD WELD LUGS ON ENDS OF GROUNDING



**REVISIONS**

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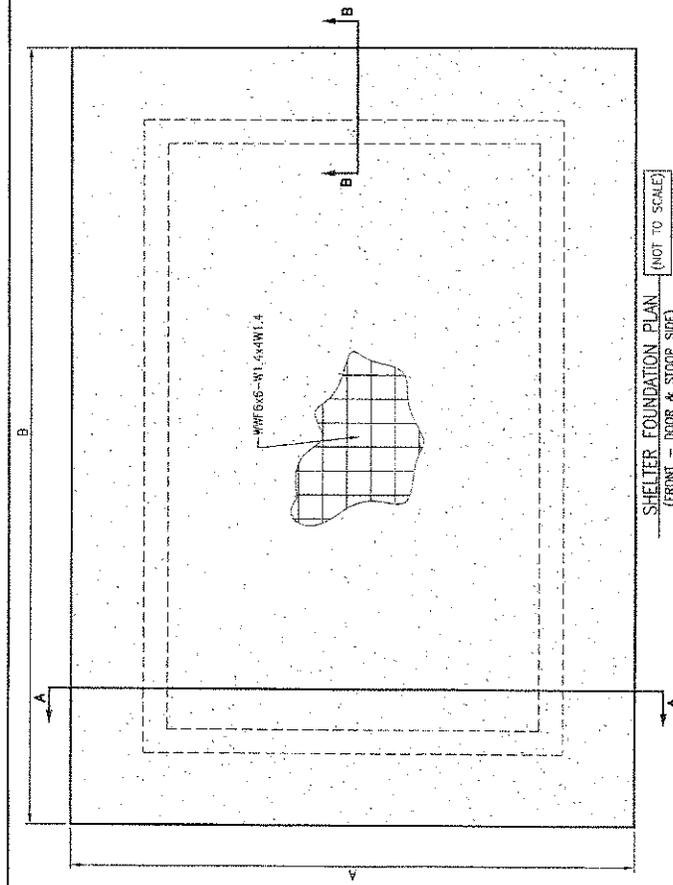
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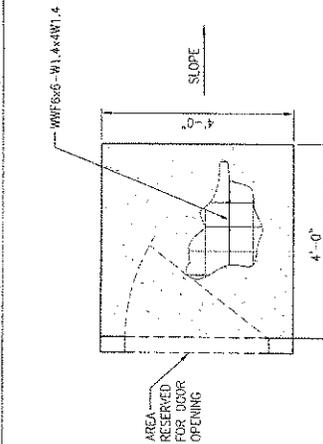
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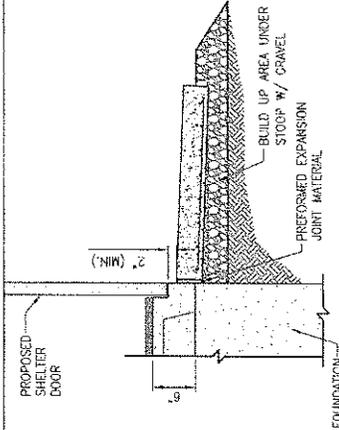




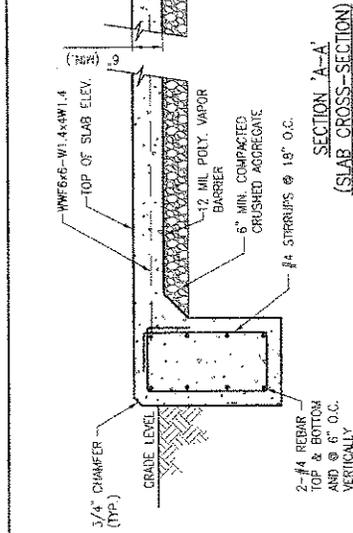
SHIELDER FOUNDATION PLAN  
(FRONT - DOOR & STOOP SIDE)  
(NOT TO SCALE)



PLAN VIEW OF  
SHIELDER STOOP DETAIL  
(NOT TO SCALE)



SHIELDER STOOP DETAIL  
(NOT TO SCALE)



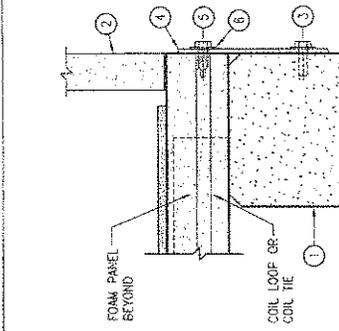
SECTION 'A-A'  
(SLAB CROSS-SECTION)  
(NOT TO SCALE)

LEGEND

- ① FOUNDATION
- ② PROPOSED CONCRETE SHELTER
- ③ 3/4" x 4-1/4" RAWL BOLT EXP. ANCHOR OR EQ.
- ④ GALVANIZED SHELTER ANCHOR PLATE, PART# 6914001
- ⑤ 1"x7" COIL BOLT, ASTM A480 OR A354BD
- ⑥ 1" FLAT WASHER

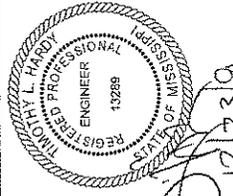
NOTES:

- 1. SLAB TO BE LEVEL ±1/4".
- 2. PERIMETER FOOTING SHALL BE A MINIMUM FOUNDATION DEPTH OF 18", BUT NOT LESS THAN REQUIRED FOR LOCAL FROST LINE CONDITIONS.
- 3. FINAL SITE DESIGN IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 4. SLAB FOUNDATION DESIGNED ASSUMING ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.
- 5. SLAB FOUNDATION DESIGNED ASSUMING MAXIMUM SOIL PLASTICITY INDEX OF 15.
- 6. CONCRETE STRENGTH SHALL BE A MINIMUM OF 3000 PSI.
- 7. COMPACT ALL SOIL IN SLAB AREA PRIOR TO PLACEMENT OF CONCRETE.



SECTION 'B-B'  
(NOT TO SCALE)

FOUNDATION DIMENSION SCHEDULE		
TO X 12 SHELTER	12 X 16 SHELTER	
SIDE	SIDE	DIMENSION (INCHES)
A	A	140
B	B	198



SEE  
LEGEND

ITEM	REVISIONS	BY	CHK. BY	DATE

**TOWERS OF MISSISSIPPI II, LLC**  
31560 BLAINELEY HWY, SPANISH FORT, ALABAMA 36537

SUBMIT BY: C.E. PERSONS 07-14-09  
DATE: 07-14-09  
DESIGNED BY: J.L. HARDY 11-18-09  
DATE: 11-18-09

BY: **HARDY ENGINEERING, INC.**  
ENGINEERING AND CONSULTING  
308 LINBER STREET, P.O. BOX 798  
TRUSSVILLE, AL 35173  
PHONE: (205) 655-1627 FAX: (205) 661-9027

DATE: 201031.06  
SCALE: AS NOTED  
PROJECT: 201031.06  
SHEET: 201031.06  
SHELTER FOUNDATION DETAILS  
201031.06 - BOWETON  
HAZLEHURST, MISSISSIPPI  
FOR  
TOWERS OF MISSISSIPPI II, LLC

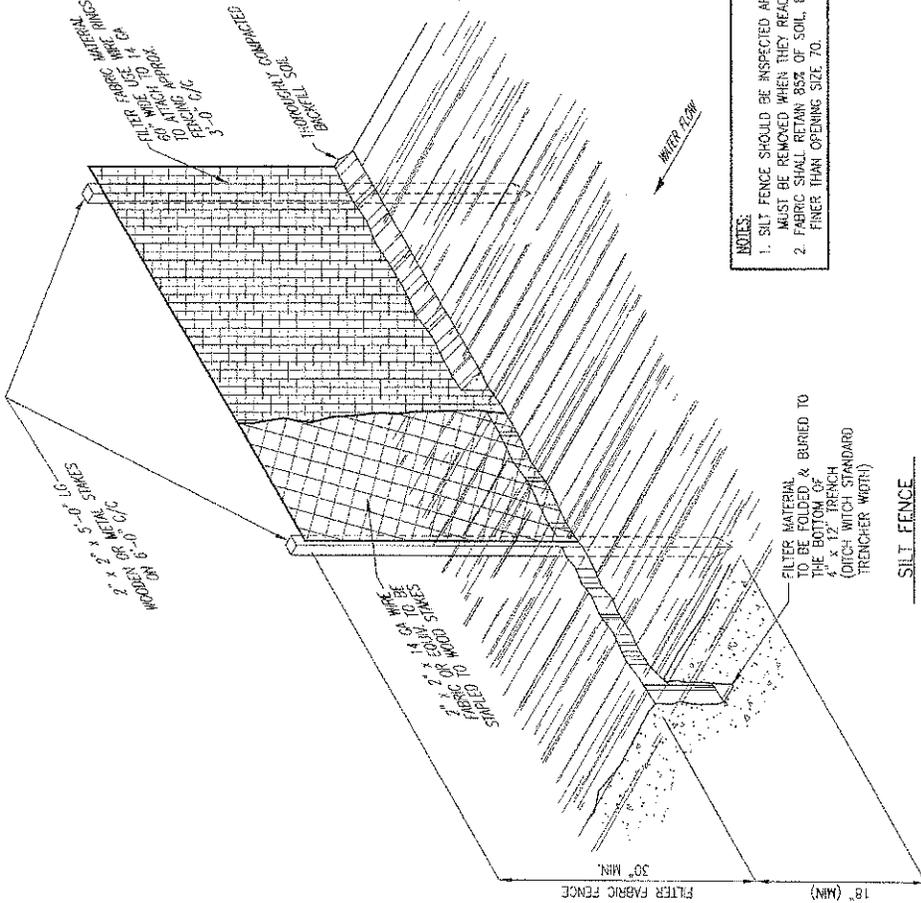






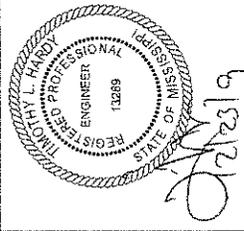
**GRADING NOTES:**

1. THE CONTRACTOR IS TO VERIFY THAT ALL EXISTING TOPOGRAPHY AND HORIZONTAL GEOMETRY IS AS INDICATED ON THESE DRAWINGS. THE CONTRACTOR IS TO ESTABLISH THE EXISTENCE AND LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITIES AND SERVICES. IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES OR INTERFERENCES WHICH AFFECT THE WORK OF THIS CONTRACT.
2. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES, CODES, AND REGULATIONS.
3. THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR CONTAINMENT OF SEDIMENTS AND CONTROL OF EROSION ON SITE. ANY DAMAGE TO ADJACENT OR DOWNSTREAM PROPERTIES WILL BE CORRECTED BY THE CONTRACTOR AT NO EXPENSE TO OWNER.
4. THE CONTRACTOR IS TO MAINTAIN ADEQUATE DRAINAGE AT ALL TIMES. DO NOT ALLOW WATER TO STAND OR FLOOD. ANY DAMAGE TO STRUCTURES OR WORK ON THE SITE CAUSED BY INADEQUATE MAINTENANCE OF DRAINAGE PROVISION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND ANY COST ASSOCIATED WITH REPAIRS FOR SUCH DAMAGE WILL BE AT THE CONTRACTOR'S EXPENSE.
5. ALL WASTE MATERIAL SHALL BE PROPERLY DISPOSED OF OFF SITE OR AS DIRECTED BY THE CONSTRUCTION MANAGER AND IN ACCORDANCE WITH JURISDICTIONAL AUTHORITIES.
6. SEED AND MULCH ALL DISTURBED AREAS NOT COVERED BY OTHER MATERIALS AS TO RESTORE DAMAGED PROPERTY BACK TO ORIGINAL CONDITION.
7. THE CONTRACTOR SHALL BE RESPONSIBLE TO CORRECT ALL DAMAGE TO THE SITE SUBSEQUENT TO THE INSTALLATION OF THE POWER AND TELCO LINES.
8. THE CONTRACTOR IS TO REMOVE ALL TREES AND STUMPS WITHIN ACCESS EASEMENT AND LEASE AREA.
9. TREES DAMAGED OR REMOVED OUTSIDE LEASE AREA OR ACCESS EASEMENT SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.



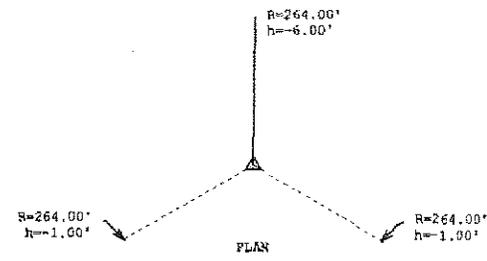
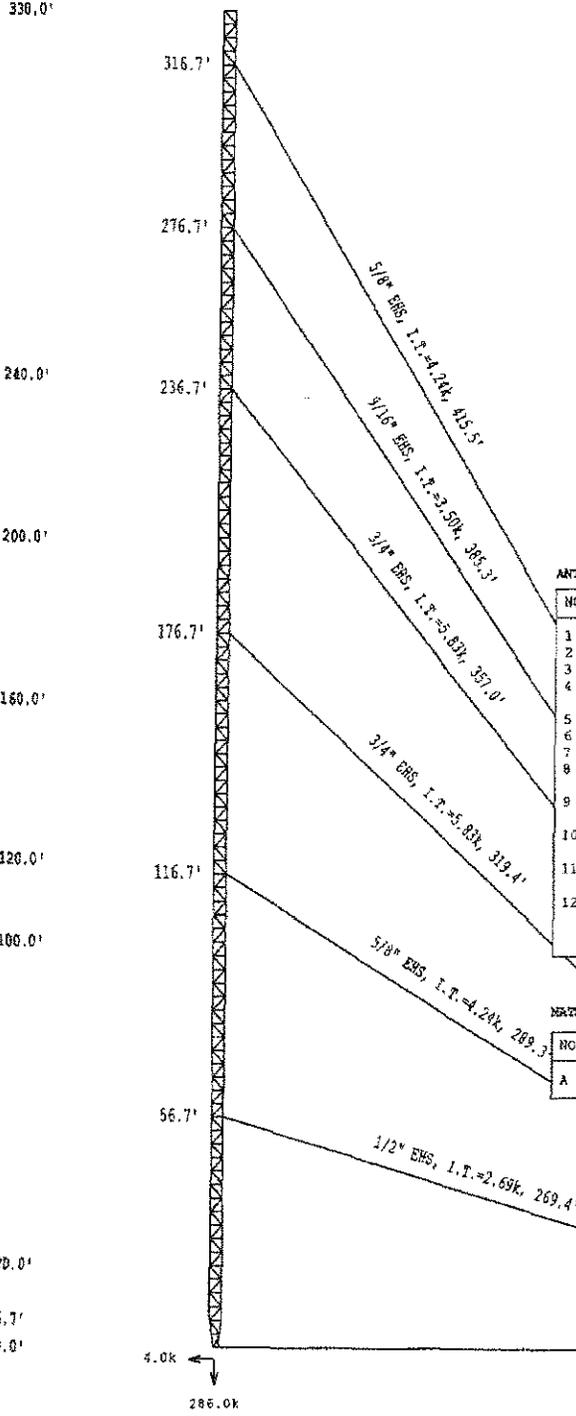
**NOTES:**

1. SILT FENCE SHOULD BE INSPECTED AFTER EACH RAINFALL AND SEDIMENT DEPOSITS MUST BE REMOVED WHEN THEY REACH 1/4 THE HEIGHT OF THE FENCE.
2. FABRIC SHALL REMAIN 85% OF SOIL, BASED ON SIEVE ANALYSIS, BUT NOT TO BE FINER THAN OPENING SIZE 70.



ITEM	REVISIONS	BY	CHK. BY	DATE	DATE OF	JOB NO.	JOB NAME	JOB LOCATION	JOB NUMBER	JOB SCALE	JOB SHEET NO.	JOB SHEETS	JOB TOTAL	JOB STATUS	JOB COMMENTS
<p><b>TOWERS OF MISSISSIPPI II, LLC</b>          31580 BAMELEY WAY, SPANISH FORT, ALABAMA 36527</p>															
<p><b>HARDY ENGINEERING, INC.</b>          ENGINEERING AND CONSULTING          209 LINDEN STREET, P.O. BOX 708          TRUSSVILLE, AL 35773          PHONE: (205) 655-1427 FAX: (205) 661-9027</p>															
<p><b>C.E. PERSONS</b> 07-14-09          I.L. HARDY 07-15-09</p>															
<p><b>SILT FENCE DETAIL &amp; GRADING NOTES</b>          20103C - BOWMERON          HAZLEHURST, MISSISSIPPI          FOR          TOWERS OF MISSISSIPPI II, LLC</p>															
<p>20103_C10 AS NOTED C10</p>															

Leg	50 ksi	SR 2-1/4" Ø	SR 2" Ø	SR 2-1/4" Ø	SR 1-3/8" Ø
Diagonal	36 ksi	SR 1" Ø	A	SR 1-1/4" Ø	SR 1" Ø
Horizontal	36 ksi	SR 1" Ø	A	SR 1-1/4" Ø	SR 1" Ø
Brace Bolts	Welded Sections				
Face Width	3'0"				
Panel Height # Panels	99 @ 3.3'				



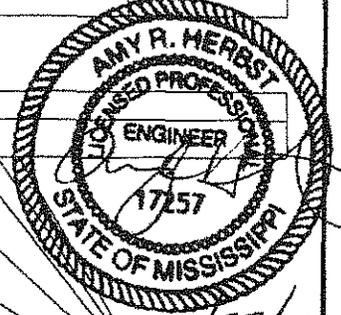
- NOTES:**
- The tower model is 360GSRWD.
  - Lines are to be attached as shown on the cross-section drawing.
  - Guy lengths shown are not cut lengths.
  - Azimuths are relative (not based on true north).
  - See the Guy Tensions, Anchor Loads and Base Loads page(s) for maximum foundation loads.
  - This tower was designed for Structure Class III, Exposure Category C and Topographic Category 1.
  - Use 2.25" diameter (FY=50ksi) anchor rods.
  - This structure has been designed with outside face mounted rest platforms without handrails at the 325', 300', 200' and 100' elevations.

**ANTENNA LIST**

NO	ELEV	ANTENNA	TW-LINE
1	335'	(1) Ext. LR	
2	331'	(6) BCD-7509	
3	325'	3T-Boom(R)	(6) 1 5/8
4	310'	(12) SA14-105 + 3T-Booms(R)	(12) 1 5/8
5	301'	(6) BCD-7509	
6	295'	3T-Boom(R)	(6) 7/8
7	295'	(6) TMA	(6) 1/2
8	250'	(12) SA14-105 + 3T-Boom(R)	(12) 1 5/8
9	245'	(2) 4' Solid Dish W/ Radome	(2) EW63
10	230'	(12) SA14-105 + 3T-Boom(R)	(12) 1 5/8
11	185'	(2) 6' Solid Dish W/ Radome	(2) EW63
12	50'	(1) GPS Antenna + Flush Mount	(1) 1/2

**MATERIAL LIST**

NO	TYPE
A	SR 1-1/4" Ø



Elevation view of 60 deg. face & 0 - 120 deg. guy lines



**Sabre Towers And Poles**  
 2101 Murray Street (P.O. Box 658), Sioux City, IA 51111  
 Phone: (712) 258-6690 Fax: (712) 258-8250

Client: TOWERS OF MISSISSIPPI Job No: 10-12150 Date: 18 dec 2009  
 Location: 20103 Bowerton, MS Total Height: 330.00' Tower Height: 330.00'  
 Standard: TIA 222-G-2005 Design Wind & Ice: 95mph 0" ice & 30mph 0.5" ice

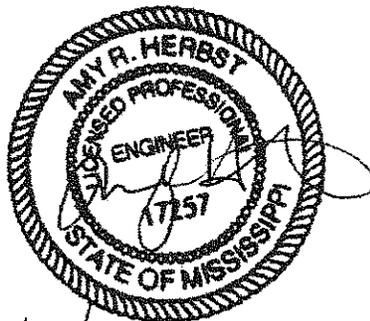
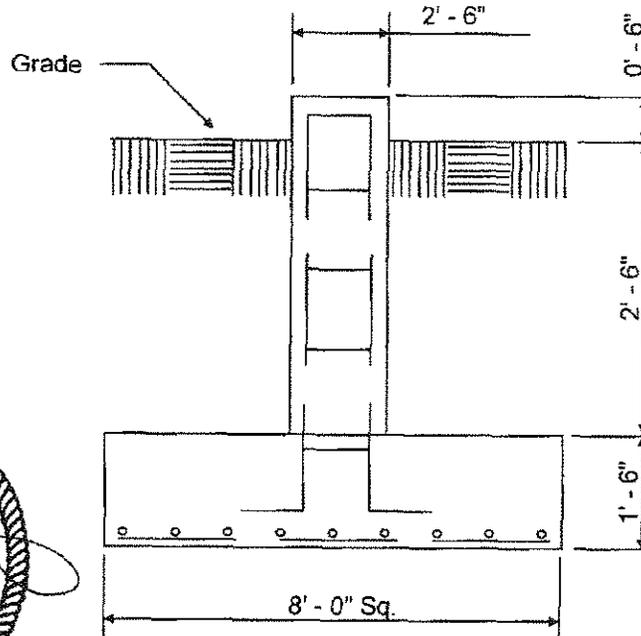


No.: 1012150  
 3  
 Date: 12/21/2009  
 By: NJS

**Customer: Towers of Mississippi**

**Site: 20103 Bowerton, MS**

330 ft. Model 3600 SRWD Guyed Tower (36 in. face) At  
 95 mph Wind with no ice and 30 mph wind with 0.5 in. Ice per ANSI/TIA-222-G-2005.  
 Antenna Loading per Page 1



12/22/09

**TOWER BASE**  
 (4.1 Cu. Yds. Each)  
 (NOT TO SCALE)

Rebar Schedule	
PIER	(6) #7 vertical rebar w/ #3 ties @12" spacing
PAD	(9) #7 horizontal rebar Ea. Way Evenly Spaced Bottom Only

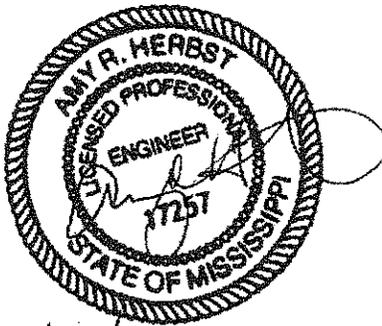
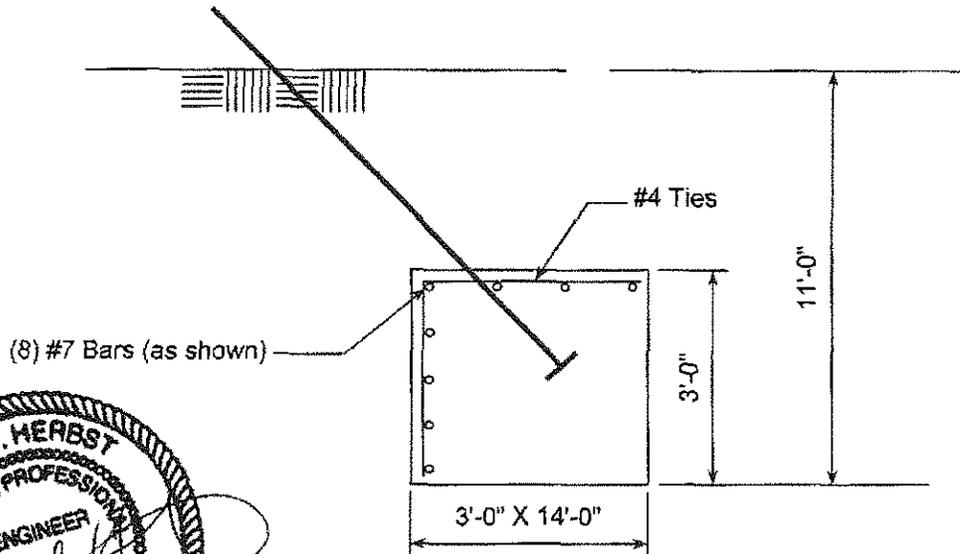
**NOTES**

- 1.) Concrete shall have a minimum 28 day compressive strength of 3000 PSI, in accordance with ACI 318-05.
- 2.) Rebar to conform to ASTM specification A615 Grade 60.
- 3.) All rebar to have a minimum of 3" concrete cover.
- 4.) All exposed concrete corners to be chamfered 3/4".
- 5.) The foundation design is based on the geotechnical report by W Geotechnical and Testing, Inc.; Project # G-6116 O; Dated 06/02/09.
- 6.) The foundation design is based on the following factored reactions:  
 Factored Axial load = 286  
 Factored Shear = 4
- 7.) See the geotechnical report for compaction requirements, if specified.

Information contained herein is the sole property of Sabre Towers & Poles, constitutes a trade secret as defined by Iowa Code Ch. 550 and shall not be reproduced, copied or used in whole or part for any purpose whatsoever without the prior written consent of Sabre Towers & Poles

**Customer: Towers of Mississippi**  
**Site: 20103 Bowerton, MS**

330 ft. Model 3600 SRWD Guyed Tower (36 in. face) At  
95 mph Wind with no ice and 30 mph wind with 0.5 in. Ice per ANSI/TIA-222-G-2005.  
Antenna Loading per Page 1



**GUY ANCHOR**  
(4.67 Cu. Yds. Concrete)  
(3 REQUIRED; NOT TO SCALE)

12/22/09

Rebar Schedule Per Anchor	
GUY	(8) #7 horizontal rebar X 13'-6"
ANCHOR	(15) #4 ties evenly spaced

**NOTES**

- Concrete shall have a minimum 28 day compressive strength of 3000 PSI, in accordance with ACI 318-05.
- Rebar to conform to ASTM specification A615 Grade 60.
- All rebar to have a minimum of 3" concrete cover.
- The foundation design is based on the geotechnical report by W Geotechnical and Testing, Inc.; Project # G-6116 O; Dated 06/02/09.
- The foundation design is based on the following factored reactions:  
Uplift = 81.9  
Horizontal force = 111.9
- When the soil electrical resistivity is less than 50 ohm-m and/or the measured soil pH values are below 3 or greater than 9, additional corrosion control is required. See the geotechnical report for these parameters and compaction requirements, if specified.

**GENERAL NOTES:**

1. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LOCAL ORDINANCES, MUNICIPAL ORDINANCES, AND ALL OTHER APPLICABLE SPECIFICATIONS AND LOCAL ORDINANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND APPROVALS FOR THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
2. THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION DRAWINGS AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THIS JOB IS NEVER-HELESS CAUTIONED THAT WHOEVER OMISSIONS OR ERRORS IN THE DRAWINGS AND/OR SPECIFICATIONS OR CONTRACT DOCUMENTS ARE NOT THE CONTRACTOR'S RESPONSIBILITY. THE PROJECT AND APPROPRIATE IN ACCORDANCE WITH THE MEANT OF THESE DOCUMENTS.
3. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (ON WRITING) THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES, OMISSIONS, OR ERRORS IN THE DRAWINGS OR CONTRACT DOCUMENTS PRIOR TO THE START OF WORK. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.
4. THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.
5. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS, AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
6. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.
7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
8. THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDUMS OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
9. THE CONTRACTOR SHALL BE RESPONSIBLE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSTRUCTION CONTROL, PERMITS, ESTABLISHING AND MAINTAINING ALL LINES AND GRASSES REQUIRED TO CONSTRUCT ALL UTILITIES AND TROUBLESHOOTING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY CONSTRUCTION CONTROL STAKEETS, ESTABLISHING AND MAINTAINING ALL LINES AND GRASSES REQUIRED TO CONSTRUCT ALL UTILITIES AS SHOWN HEREIN.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.
12. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, DRAINAGES, PAVING, CURBS, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
13. THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY.
14. THE CONTRACTOR SHALL COMPLY WITH ALL USRA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
15. THE CONTRACTOR SHALL NOTIFY THE LESSEE REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY PORTION OF THE WORK THAT IS IN CONFLICT WITH, OR IMPACT IS REQUIRED BY THE LESSEE REPRESENTATIVE.
16. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
17. ALL UNDERGROUND UTILITY INFORMATION HAS BEEN DETERMINED FROM SURFACE INVESTIGATIONS AND EXISTING PLANS OF RECORD. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO ANY SITE WORK.

**PROPERTY OWNER:**

HOLLY DIANE ROWLAND  
9078 HIGHWAY 28  
HAZELHURST, MS 39083  
PHONE: (601) 277-3835  
MOBILE: (601) 899-1059

**SURVEY**

**MSW**  
ENGINEERING GROUP, INC.  
208 OAK MOUNTAIN CIRCLE  
PELHAM, ALABAMA 35124  
PHONE: (205) 252-6885  
FACSIMILE: (205) 320-1504

**TELCO. CO.:**

BELLSOUTH  
CONTACT: CUSTOMER SERVICE  
PHONE: (888) 757-6500

**LESSEE:**

**MSWIN**  
MISSISSIPPI WIRELESS  
COMMUNICATION COMMISSION  
ATTN: BILL BOGROW WILSON  
412 EAST BROADWAY  
JACKSON, MISSISSIPPI 39216

**CONSTRUCTION MANAGEMENT:**

**MOTOROLA**  
CONTACT: RYAN M. VAILANGOURT  
PHONE: (858) 372-0371  
FACSIMILE: (858) 372-0374

**ZONING/PERMITTING INFO:**

(NO ZONING REQUIRED)  
PARCEL I.D. No.: 1-189-17-015.01  
COPIAH COUNTY

**INDEX:**

NO.	TITLE SHEET	REV.	DATE
01	EQUIPMENT INSTALLATION LAYOUT		
02	TOWER ELEVATION & DETAILS		

# EQUIPMENT INSTALLATION PLANS FOR TOWERS OF MISSISSIPPI II, LLC

31560 BLAKELEY WAY, SPANISH FORT, ALABAMA 36527  
PHONE: (251) 421-6044, FACSIMILE: (251) 621-0397

SITE No.: 20103 C

SITE NAME: BOWERTON

911 ADDRESS: 4093 JOHN I HAY ROAD

HAZELHURST, MISSISSIPPI 39083

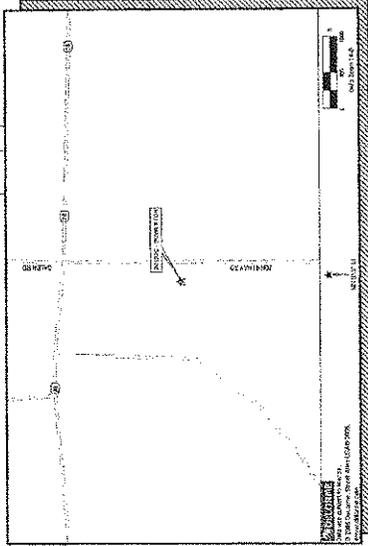
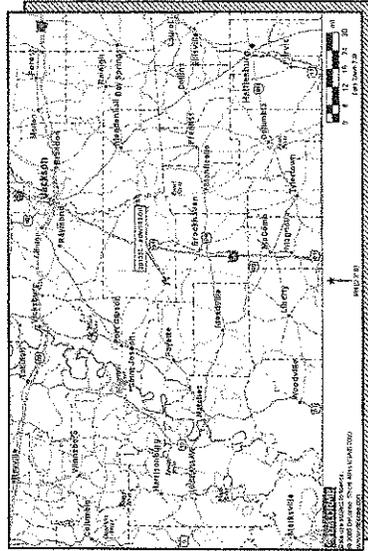
**"2C" COORDINATES:**

LATITUDE: 31° 44' 53.612" NORTH  
LONGITUDE: 90° 36' 59.242" WEST  
GROUND ELEVATION: 489.7' AMSL



CALL BEFORE YOU  
DIG - DRILL - BLAST  
1-800-227-6477  
(TOLL FREE)  
MISSISSIPPI ONE CALL SYSTEM, INC.

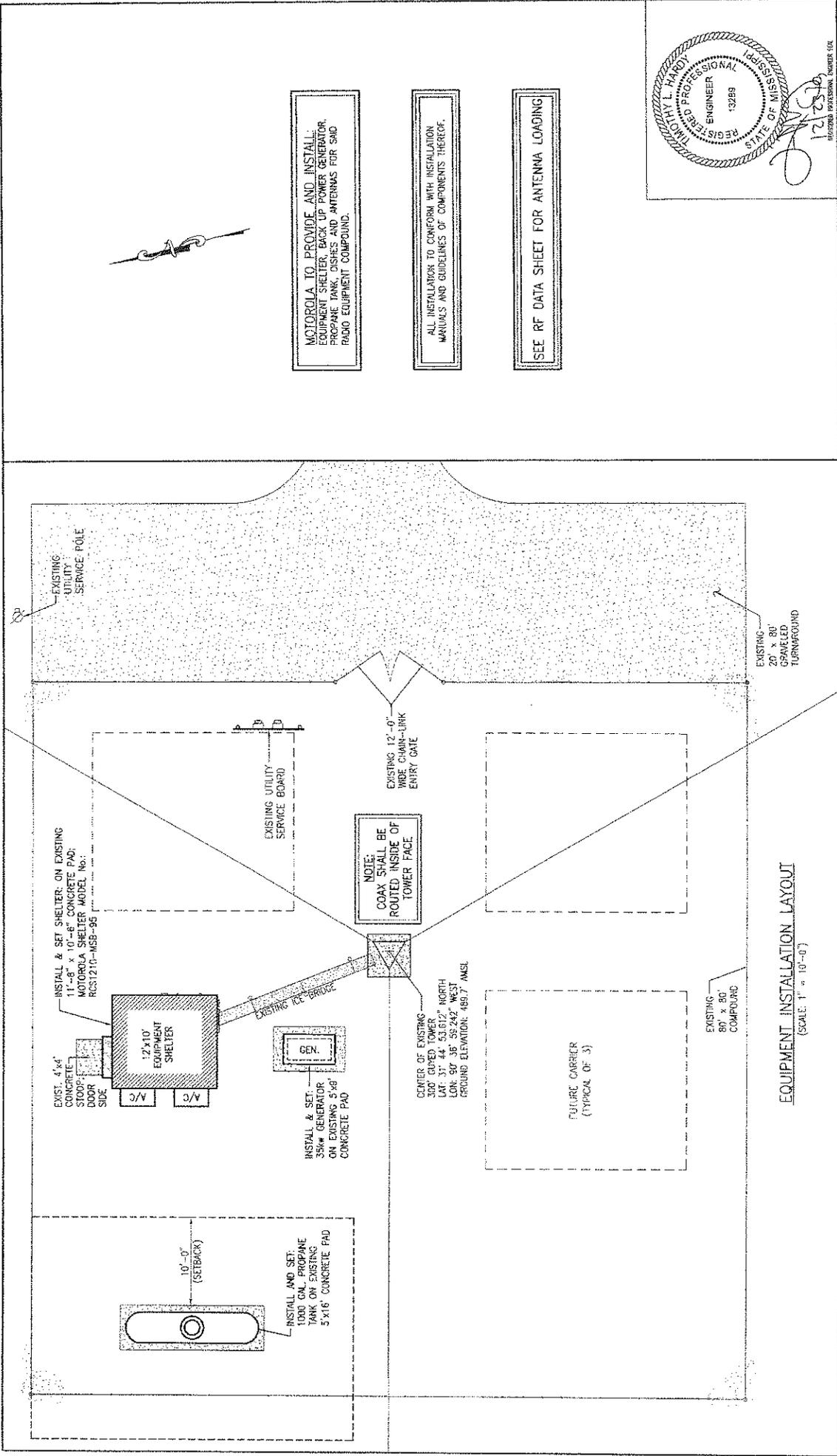
12/23/9



**VICINITY  
MAP**

**SITE DIRECTIONS:**  
FROM JACKSON, MS: TAKE I-55 SOUTH TO EXIT 61, MS-28 W HEADING TOWARDS FAYETTE. GO APPROX. 0.3 MILES. TAKE A RIGHT TURN AT MS-28 WEST. TURN LEFT ONTO JOHN HAY ROAD. GO 17.0 MILES. SITE IS IN GREEN FIELD ON RIGHT. ACCESS THROUGH GATE ON SOUTH END OF FIELD.

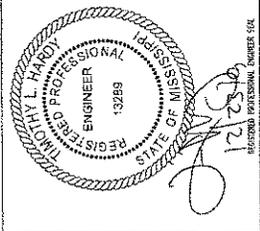
**NOTICE TO CONTRACTORS:**  
SHOULD ARTIFACTS, ARCHAEOLOGICAL FEATURES OR HUMAN SKELETAL REMAINS BE ENCOUNTERED DURING PROJECT ACTIVITIES, STOP WORK IMMEDIATELY AND CONTACT THE TOWERS OF MISSISSIPPI FIELD CONSTRUCTION MANAGER FOR INSTRUCTIONS.



MOTOROLA TO PROVIDE AND INSTALL EQUIPMENT SHELTER, BACK UP POWER GENERATOR, PROPANE TANK, DISHS AND ANTENNAS FOR SAID RADIO EQUIPMENT COMPOUND.

ALL INSTALLATION TO CONFORM WITH INSTALLATION MANUALS AND GUIDELINES OF COMPONENTS THEREOF.

SEE RF DATA SHEET FOR ANTENNA LOADING



REV	REVISIONS	BY	CHK. BY	DATE

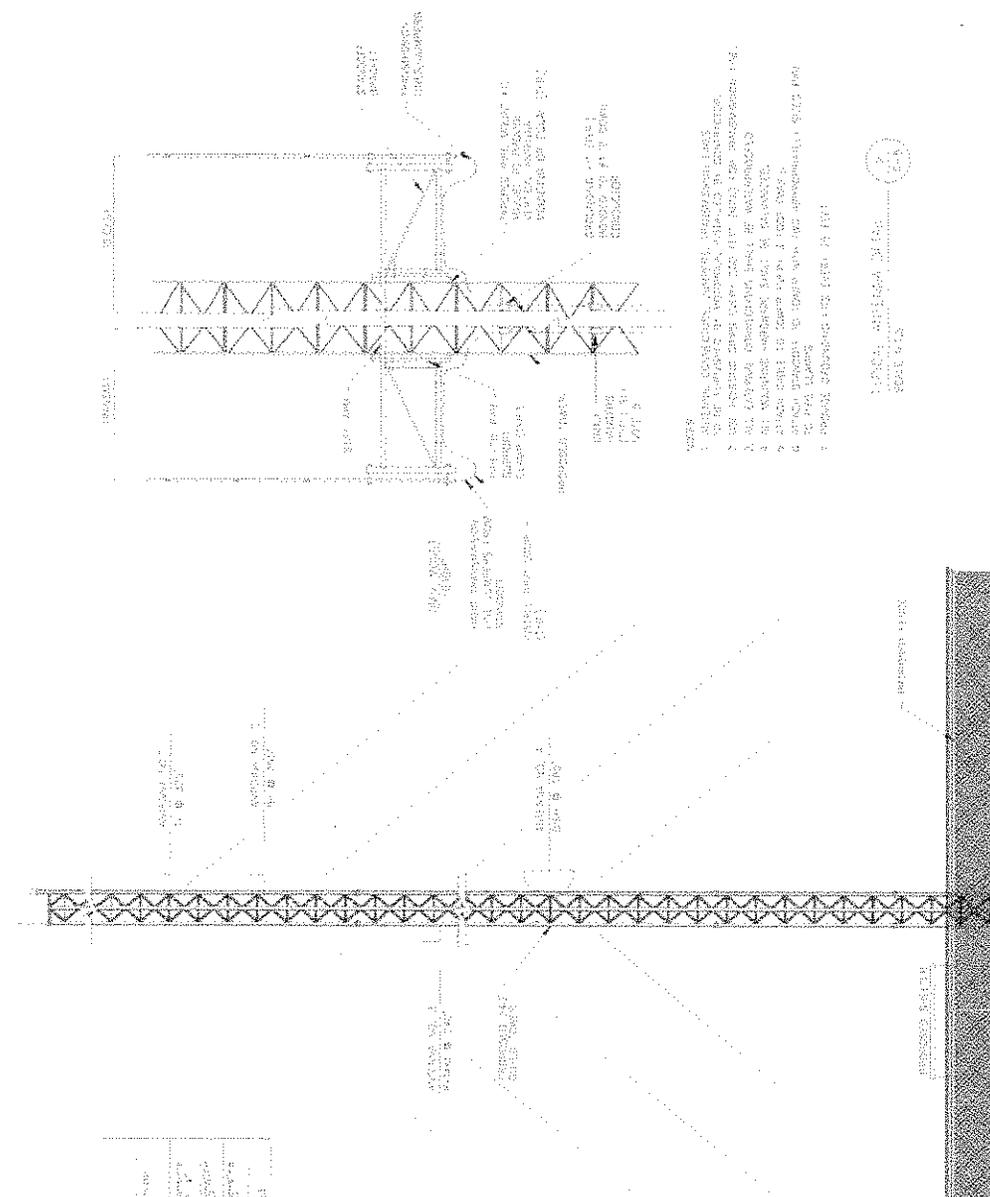
<b>TOWERS OF MISSISSIPPI II, LLC</b> 31560 BAWELLY WAY, SPANISH FORT, ALABAMA 36527	C.E. PERSONS 07-14-09 I.L. HARDY 11-18-09	<b>HARDY ENGINEERING, INC.</b> ENGINEERING AND CONSULTING 209 LINDSEY STREET, P.O. BOX 708 TROSSVILLE, AL 35173 PHONE: (205) 655-1427 FAX: (205) 661-8027	<b>EQUIPMENT INSTALLATION LAYOUT</b> 20103.CI - BOWERTON MACEDONIA, MISSISSIPPI FOR TOWERS OF MISSISSIPPI II, LLC
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20103.CI AS NOTED	20103.CI	07-14-09	11-18-09	12/21/09
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ANALYSIS & DESIGN SUMMARY

ITEM	NO.	DESCRIPTION	UNIT	QTY	UNIT PRICE	TOTAL PRICE	REMARKS
1	1	STEEL TRUSS	TON	100	1000	100000	
2	1	WOOD TRUSS	TON	50	500	25000	
3	1	CONCRETE	CU YD	100	1000	100000	
4	1	LABOR	HR	1000	100	100000	
5	1	PERMITS	NO	1	100000	100000	
6	1	INSURANCE	NO	1	50000	50000	
7	1	TOTAL				400000	



NOTES:

1. ALL DIMENSIONS ARE IN FEET AND INCHES.
2. THE BRIDGE SHALL BE DESIGNED TO CARRY A TRUCK LOAD OF 20 KIPS PER AXLE.
3. THE BRIDGE SHALL BE DESIGNED TO WITHSTAND A WIND LOAD OF 100 PSF.
4. THE BRIDGE SHALL BE DESIGNED TO WITHSTAND A SEISMIC LOAD OF 0.1g.
5. THE BRIDGE SHALL BE DESIGNED TO WITHSTAND A FLOOD LOAD OF 10 FT.

DESIGNER: [Name]

DATE: [Date]

SCALE: 1/4" = 1'-0"

100000

100000

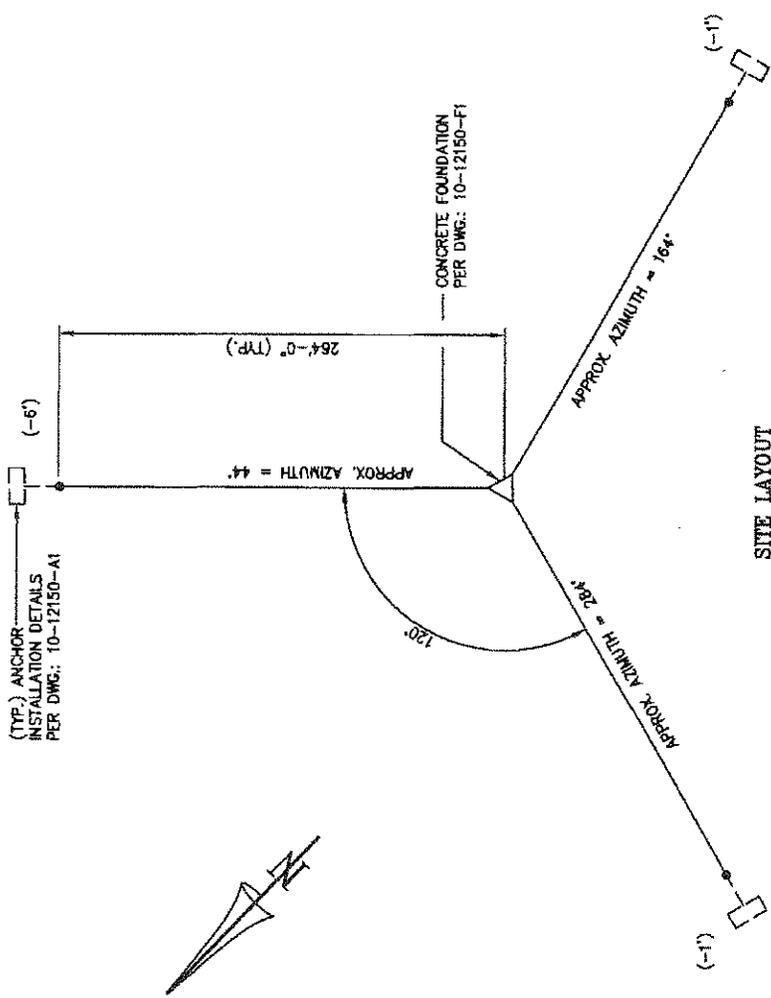






**NOTES:**

1. THE TOWER CENTER AND ANCHORS ARE TO BE LOCATED AND STAKED BY THE TOWER OWNER. (CONCRETE INSTALLER TO VERIFY).
2. THE ANCHOR DISTANCE SHOWN IS HORIZONTAL FROM THE TOWER BASE WITH A MAXIMUM GRADE DEVIATION, (SHOWN IN ( )), OF PLUS 0 FT. OR MINUS 6 FT. FROM TOWER BASE TO ANCHOR POINT OF DAYLIGHT. CONTACT SABRE ENGINEERS IF ACTUAL GRADE EXCEEDS THE PLUS OR MINUS DESIGN.



**SITE LAYOUT**

UNLESS OTHERWISE SPECIFIED MATERIAL		SABRE Towers & Poles		LAYOUT: 330', 3600 SRWD GUYED TOWER	
ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		CONFIDENTIAL The drawings and information contained herein is the confidential trade secret property of Sabre Communications Corporation ("Sabre") and must not be reproduced, copied or used, in whole or in part, for any purpose without the prior written consent of Sabre. © 2010 Sabre Communications Corporation. All rights reserved.		SITE: 20103 BOWERTON, MISSISSIPPI	
TOLERANCES FRACTIONS ± 1/16" DECIMALS ± 1/32" ANGLES ± 0.02°		TOLERANCES DO NOT APPLY TO BORN MATERIAL		CUSTOMER: TOWERS OF MISSISSIPPI	
REV	DATE	BY	DESCRIPTION	JOB NO. 10-12150	DRIVING NO. REV
				DATE 1/4/10	10-12150-PL 0
				DRAWN BY KTW	SCALE None
				CHECKED BY PSB	PAGE 1 OF 1

## **Appendix B**

[Home](#) > [Maps, Data, and Images](#) > [Maps](#) > [GIS Map](#)

## U.S. National Wilderness Preservation System Map

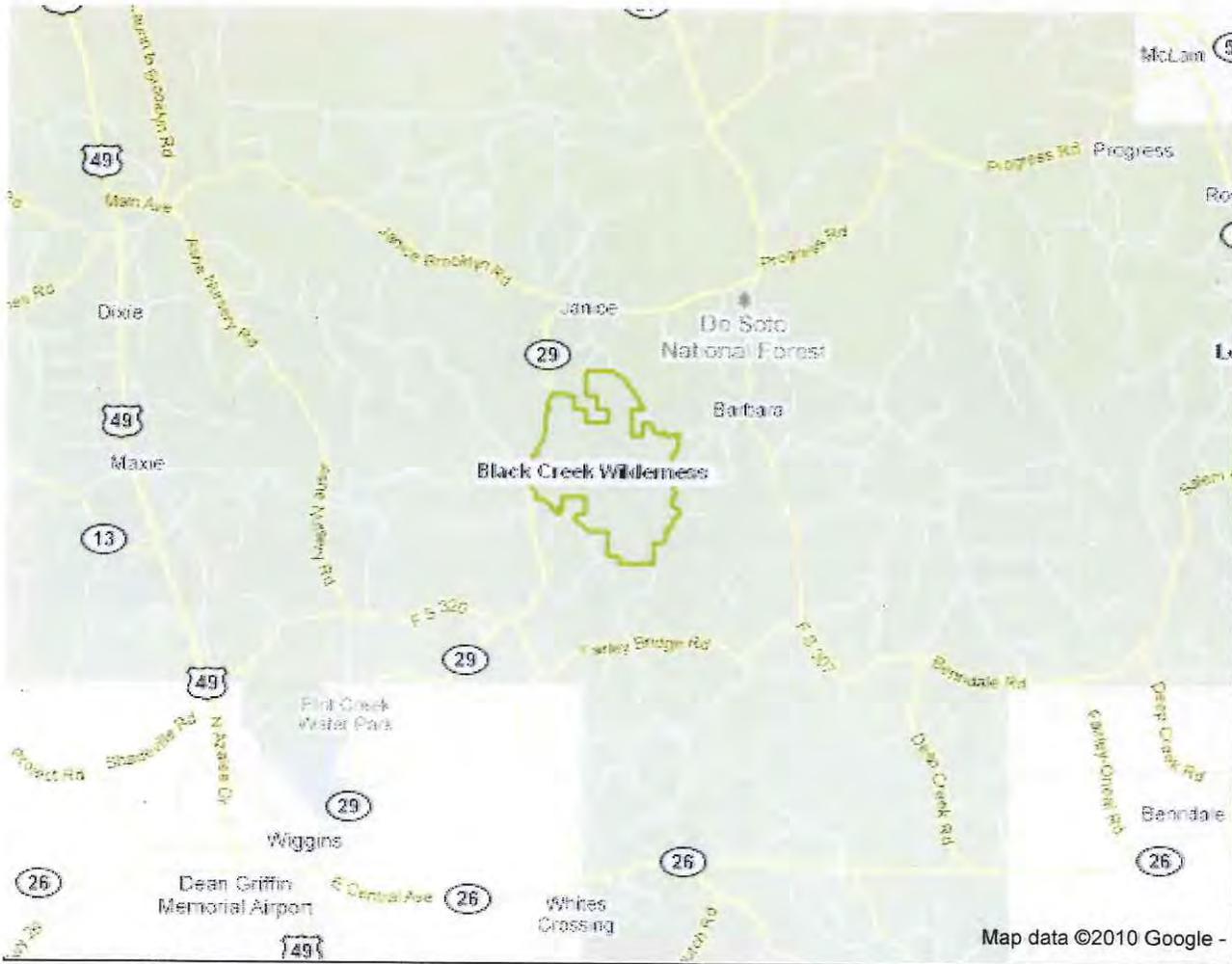
Click inside a wilderness polygon to open an information window (window may take a second to appear). Want to [give us feedback](#) on our map?

Print/View/Download:

Zoom: U.S.  Wilderness

On/Off: Wilderness Names

Key:  BLM  FWS  FS  NPS



Latitude/longitude: 31.0299897, -89.021530

**Disclaimer:** Wilderness.net's GIS-based map overlays wilderness boundaries on satellite data provided by Google Maps. Boundary updates are obtained from the wilderness management agencies. Boundary names containing "(Draft boundary)" have not been finalized and are not official. Different wildernesses treat inholdings differently, so you should consult agency-specific maps to identify the exact location of private inholdings within wilderness. Wilderness.net manages this map as a service to Internet users of digital

geographic data. Wilderness.net is in no way condoning or endorsing the application of these data for any given purpose. It is the sole responsibility of the user to determine whether or not the data are suitable for the intended purpose. It is also the obligation of the user to apply those data in an appropriate and conscientious manner. Although Wilderness.net attempts to use the most current and complete geospatial data available, accuracy varies. Wilderness.net provides no warranty, nor accepts any liability occurring from any incorrect, incomplete, or misleading data, or from any incorrect, incomplete, or misleading use of these data.

On 3/30/09 President Obama signed the Omnibus Public Land Management Act of 2009 (Public law 111-11) into law. This law designated 52 new wilderness areas and added acreage to 26 existing areas, a total addition to the NWPS of over 2 million acres. All these new areas are now pictured on Wilderness.net's maps. You can also [view a list of all areas affected by Public Law 111-11](#) with links to more information about them.

Maps of the National Wilderness Preservation System have been produced for many years. Read about the [history of wilderness mapping](#).



Feedback Analytics

## Black Creek Wilderness Fact Sheet

### General

The United States Congress designated the Black Creek Wilderness in 1984 and it now has a total of 5,052 acres. All of the wilderness is in Mississippi and is managed by the Forest Service.

The Black Creek Wilderness is located in the gulf coastal plains of southern Mississippi. Most of this Wilderness, the state's largest, lies in the broad valley of Black Creek, stained a deep caramel color by the tannic acid of decaying vegetation. The creek is Mississippi's only designated Wild and Scenic River (for 21 miles) with the emphasis exclusively on scenic. It bisects the Wilderness, creating a hardwood floodplain of oxbow lakes and thick stands of sweet gum, sweet bay, red maple, oak, pine, and bald cypress. The 5- to 20-foot banks offer plenty of white sandbars suitable for camping or a picnic. You may want to float the meandering creek leisurely paddling your canoe. If the water level is running low, keep an eye out for logs.

The Black Creek National Recreation Trail (open only to foot traffic) runs about 41 miles along the drainage of Black Creek, with about 10 miles within the Wilderness. Here you'll be on a part of the Lower Coastal Plain: piney woods growing over low rolling hills with a few moderate ridges. The relatively flat terrain rises 100 feet on Black Creek itself to only 270 feet on nearby uplands.

Bass and panfish attract anglers, and hunters come in their season, mostly for deer. On many days you'll see no evidence that a human has ever stepped foot in the Wilderness or dipped a canoe paddle into Black Creek.

### Area Management

The Black Creek Wilderness is part of the 109 million acre National Wilderness Preservation System. This System of lands provides clean air, water, and habitat critical for rare and endangered plants and animals. In wilderness, you can enjoy challenging recreational activities like hiking, backpacking, climbing, kayaking, canoeing, rafting, horse packing, bird watching, stargazing, and extraordinary opportunities for solitude. You play an important role in helping to *"secure for the American people of present and future generations the benefits of an enduring resource of wilderness"* as called for by the Congress of the United States through the Wilderness Act of 1964. Please follow the requirements outlined below and use Leave No Trace techniques when visiting the Black

Creek Wilderness to ensure protection of this unique area.

## **General Wilderness Prohibitions**

Motorized equipment and equipment used for mechanical transport is generally prohibited on all federal lands designated as wilderness. This includes the use of motor vehicles, motorboats, motorized equipment, bicycles, hang gliders, wagons, carts, portage wheels, and the landing of aircraft including helicopters, unless provided for in specific legislation.

In a few areas some exceptions allowing the use of motorized equipment or mechanical transport are described in the special regulations in effect for a specific area. Contact the Forest Service office or visit the websites listed below for more specific information.

These general prohibitions have been implemented for all national forest wildernesses in order to implement the provisions of the Wilderness Act of 1964. The Wilderness Act requires management of human-caused impacts and protection of the area's wilderness character to insure that it is "unimpaired for the future use and enjoyment as wilderness." Use of the equipment listed as prohibited in wilderness is inconsistent with the provision in the Wilderness Act which mandates opportunities for solitude or primitive recreation and that wilderness is a place that is in contrast with areas where people and their works are dominant.

## **Wilderness-Specific Regulations**

Wilderness managers often need to take action to limit the impacts caused by visitor activities in order to protect the natural conditions of wilderness as required by the Wilderness Act of 1964. Managers typically implement 'indirect' types of actions such as information and education measures before selecting more restrictive measures. When regulations are necessary, they are implemented with the specific intent of balancing the need to preserve the character of the wilderness while providing for the use and enjoyment of wilderness.

The following wilderness regulations are in effect for this area. Not all regulations are in effect for every wilderness. Contact the national forest office or visit the websites listed below for more specific information about the regulations listed.

- AREA CLOSURE

- THE FOLLOWING ACTS ARE PROHIBITED: 1. STORING EQUIPMENT, PERSONAL PROPERTY, OR SUPPLIES. 2. DISPOSING OF DEBRIS GARBAGE, OR OTHER WASTE. 3. POSSESSING OR USING A WAGON, CART, OR OTHER VEHICLE. 4. OPERATING AN INTERNAL COMBUSTION ENGINE, EXCEPT FOR OUTBOARD MOTORS IN BLACK CREEK RIVER. 5. POSSESSING, DISCHARGING, OR USING ANY TYPE FIREWORKS OR OTHER PYROTECHNIC DEVICE. VIOLATION OF THIS PROHIBITION IS PUNISHABLE BY A FINE OF NOT MORE THAN \$5,000 OR IMPRISONMENT FOR NOT MORE THAN SIX MONTHS OR BOTH.
- MAXIMUM LENGTH OF STAY : 30 DAYS
  - CAMPING FOR A PERIOD LONGER THAN THIRTY (30) CONSECUTIVE DAYS ON ALL FOREST SERVICE LANDS IN MISSISSIPPI WITH THE EXCEPTION OF DEVELOPED RECREATION AREAS IS PROHIBITED. VIOLATION OF THIS PROHIBITION IS PUNISHABLE BY A FINE OF NOT MORE THAN \$5,000 OR IMPRISONMENT FOR NOT MORE THAN SIX MONTHS OR BOTH.

## Contacts

### De Soto Ranger District

PO BOX 248

654 WEST FRONTAGE ROAD

WIGGINS, MS 39577

Restrictions: Office hours are from 7:30 AM to 4:00 PM, Monday through Friday, except federal holidays.

Phone: 601-928-6160

## Links to Other Websites

<http://www.southernregion.fs.fed.us/mississippi/desoto/> -- De Soto Ranger District Website - National Forests in Mississippi

## Links on Wilderness.net

<http://www.wilderness.net/index.cfm?fuse=NWPS&sec=links&WLCID=7#results> -- National, Regional and Local Wilderness Organizations (NGOs)

A listing of societies, organizations, coalitions and other wilderness-related advocacy and stewardship groups.

<http://www.wilderness.net/index.cfm?fuse=NWPS&sec=links&WLCID=11#results> -- Career and Volunteer Opportunities

A listing of sites providing information about wilderness- and environmentally-related career and volunteer opportunities.

## Things to Consider When Planning a Trip to Wilderness

- Plan Ahead and Prepare
  - Know the regulations and special concerns for the area you'll visit.
  - Prepare for extreme weather, hazards, and emergencies.
  - Schedule your trip to avoid times of high use.
  - Visit in small groups. Split larger parties into groups of 4-6.
  - Repackage food to minimize waste.
  - Use a map and compass to eliminate the use of marking paint, rock cairns or flagging.
- Travel and Camp on Durable Surfaces
  - Durable surfaces include established trails and campsites, rock, gravel, dry grasses or snow.
  - Protect riparian areas by camping at least 200 feet from lakes and streams.
  - Good campsites are found, not made. Altering a site is not necessary.
  - In popular areas:
    - Concentrate use on existing trails and campsites.
    - Walk single file in the middle of the trail, even when wet or muddy.
    - Keep campsites small. Focus activity in areas where vegetation is absent.
  - In pristine areas:
    - Disperse use to prevent the creation of campsites and trails.
    - Avoid places where impacts are just beginning.
- Dispose of Waste Properly
  - Pack it in, pack it out. Inspect your campsite and rest areas for trash or spilled foods. Pack out all trash, leftover food, and litter.
  - Deposit solid human waste in catholes dug 6 to 8 inches deep at least 200 feet from water, camp, and trails. Cover and disguise the cathole when finished.
  - Pack out toilet paper and hygiene products.
  - To wash yourself or your dishes, carry water 200 feet away from streams or lakes and use small amounts of biodegradable soap. Scatter strained dishwater.
- Leave What You Find
  - Preserve the past: examine, but do not touch, cultural or historic structures and artifacts.
  - Leave rocks, plants and other natural objects as you find them.
  - Avoid introducing or transporting non-native species.
  - Do not build structures, furniture, or dig trenches.
- Minimize Campfire Impacts
  - Campfires can cause lasting impacts to the backcountry. Use a lightweight stove for

cooking and enjoy a candle lantern for light.

- Where fires are permitted, use established fire rings, fire pans, or mound fires.
- Keep fires small. Only use sticks from the ground that can be broken by hand.
- Burn all wood and coals to ash, put out campfires completely, then scatter cool ashes.
- Respect Wildlife
  - Observe wildlife from a distance. Do not follow or approach them.
  - Never feed animals. Feeding wildlife damages their health, alters natural behaviors, and exposes them to predators and other dangers.
  - Protect wildlife and your food by storing rations and trash securely.
  - Control pets at all times, or leave them at home.
  - Avoid wildlife during sensitive times: mating, nesting, raising young, or winter.
- Be Considerate of Other Visitors
  - Respect other visitors and protect the quality of their experience.
  - Be courteous. Yield to other users on the trail.
  - Step to the downhill side of the trail when encountering pack stock.
  - Take breaks and camp away from trails and other visitors.
  - Let nature's sounds prevail. Avoid loud voices and noises.

The source for the above information is the Leave No Trace: Center for Outdoor Ethics. For more detailed information on the seven principles of Leave No Trace and suggestions you can use to help plan a trip to wilderness, visit the following address: <http://www.lnt.org/programs/lnt7/index.html>.

## General Equipment List

The following is a general list of the types of equipment recommended for backcountry travel. You will want to modify this list accordingly for the climate in which you will be traveling. For example, if you are traveling in cold, high-mountain country you will may want to pack additional cold-weather clothing or mountaineering gear. Additionally, if you plan hunt, fish, canoe etc. in wilderness, you will want to pack additional gear needed for such activities.

- Tent
- Sleeping bag with stuff sack
- Backpack
- Clothing
  - Hiking boots (broken in and waterproofed)

- Socks (wool and liner)
- Jacket/sweater
- Rain gear
- Hat and/or stocking cap
- Shirts (long- and short-sleeve), pants, shorts (pack according to the climate you will be travelling in)
- Cook stove with extra fuel bottle
- Cook pans
- Waterproof matches or lighter
- Bear canister (if travelling in bear country)
- Rope (long enough to hang food, if necessary)
- Cup, bowl, spoon, fork, knife (sharpened)
- Water bottles or canteens
- Water filter or water treatment kit
- Garbage bags, ziplock-type bags (for packing out waste and repackaging food)
- Sun glasses
- Mosquito repellent, chapstick, sun screen
- Toilet paper (in plastic bag with additional plastic bag for packing out used paper)
- Flashlight or headlamp (with extra batteries and bulb), candle lantern
- Toiletries (toothbrush/paste, personal medications etc.)
- First-aid kit, emergency survival blanket
- Repair kits for your stove, tent, backpack, hiking boots etc.
- Camera, binoculars
- Maps, compass, field guide, guidebook

The above information was obtained from the following URL and is current as of 2/26/10:

<http://www.wilderness.net/index.cfm?fuse=NWPS&sec=wildView&WID=54>



Feedback Analytics

Aleutian Islands Wilderness, Alaska

Visit our mobile website: <http://m.wilderness.net>

Keywords:  Search



- » About Wilderness
- » Wilderness Stewardship
- » Tools for Managers
- » Research
- » Education
- » Find a Wilderness
- » Maps, Data and Images
- » Maps

Home > Maps, Data, and Images > Maps > GIS Map

Share

### U.S. National Wilderness Preservation System Map Text size: A | A | A [Print]

Click inside a wilderness polygon to open an information window (window may take a second to appear). Want to [give us feedback](#) on our map?

Print/View/Download:

Zoom: U.S. State  Wilderness

On/Off: Wilderness Names

Key:  BLM  FWS  FS  NPS



Latitude/longitude: 31.0410213, -86.797169

**Disclaimer:** Wilderness.net's GIS-based map overlays wilderness boundaries on satellite data provided by Google Maps. Boundary updates are obtained from the wilderness management agencies. Boundary names containing "(Draft boundary)" have not been finalized and are not official. Different wildernesses treat inholdings differently, so you should consult agency-specific maps to identify the exact location of private inholdings within wilderness. Wilderness.net manages this map as a service to Internet users of digital geographic data. Wilderness.net is in no way condoning or endorsing the application of these data for any given purpose. It is the sole responsibility of the user to determine whether or not the data are suitable for the intended purpose. It is also the obligation of the user to apply those data in an appropriate and conscientious manner. Although Wilderness.net attempts to use the most current and complete geospatial data available, accuracy varies. Wilderness.net provides no warranty, nor accepts any liability occurring from any incorrect, incomplete, or misleading data, or from any incorrect, incomplete, or misleading use of these data.

On 3/30/09 President Obama signed the Omnibus Public Land Management Act of 2009 (Public law 111-11) into law. This law designated 52 new wilderness areas and added acreage to 26 existing areas, a total addition to the NWPS of over 2 million acres. All these new areas

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Maps of the National Wilderness Preservation System have been produced for many years. Read about the [history of wilderness mapping](#).

About Us   | [Site Map](#) | [Contact Us](#) | [Wilderness.net policies](#)



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## Leaf Wilderness Fact Sheet

### General

The United States Congress designated the Leaf Wilderness in 1984 and it now has a total of 994 acres. All of the wilderness is in Mississippi and is managed by the Forest Service.

South Mississippi's tiny Leaf Wilderness lies almost entirely on the floodplain of the east-flowing Leaf River, just north of Black Creek Wilderness. Except for a little western upland, the entire Wilderness consists of meandering sloughs, oxbow lakes, and level terrain of spruce-pine forest or oak-gum-cypress river bottom. Loblolly and shortleaf pines shade the upland, with a dense understory of dogwood, redbud, persimmon, blueberries, and honeysuckle. The only threatening shrub is poison oak, which always seems to find a way to make contact with exposed skin. The 1.5 mile Leaf Trail, one of two main attractions in the area, crosses the Wilderness and three bridges and a boardwalk to access this piece of Mississippi, where camping is unrestricted. The other attraction is wildlife, including white-tailed deer and wild turkeys, which bring in hunters during the fall months.

### Area Management

The Leaf Wilderness is part of the 109 million acre National Wilderness Preservation System. This System of lands provides clean air, water, and habitat critical for rare and endangered plants and animals. In wilderness, you can enjoy challenging recreational activities like hiking, backpacking, climbing, kayaking, canoeing, rafting, horse packing, bird watching, stargazing, and extraordinary opportunities for solitude. You play an important role in helping to *"secure for the American people of present and future generations the benefits of an enduring resource of wilderness"* as called for by the Congress of the United States through the Wilderness Act of 1964. Please follow the requirements outlined below and use Leave No Trace techniques when visiting the Leaf Wilderness to ensure protection of this unique area.

### General Wilderness Prohibitions

Motorized equipment and equipment used for mechanical transport is generally prohibited on all federal lands designated as wilderness. This includes the use of motor vehicles, motorboats, motorized equipment, bicycles, hang gliders, wagons, carts, portage wheels, and the landing of aircraft including helicopters, unless provided for in

specific legislation.

In a few areas some exceptions allowing the use of motorized equipment or mechanical transport are described in the special regulations in effect for a specific area. Contact the Forest Service office or visit the websites listed below for more specific information.

These general prohibitions have been implemented for all national forest wildernesses in order to implement the provisions of the Wilderness Act of 1964. The Wilderness Act requires management of human-caused impacts and protection of the area's wilderness character to insure that it is "unimpaired for the future use and enjoyment as wilderness." Use of the equipment listed as prohibited in wilderness is inconsistent with the provision in the Wilderness Act which mandates opportunities for solitude or primitive recreation and that wilderness is a place that is in contrast with areas where people and their works are dominant.

### **Wilderness-Specific Regulations**

Wilderness managers often need to take action to limit the impacts caused by visitor activities in order to protect the natural conditions of wilderness as required by the Wilderness Act of 1964. Managers typically implement 'indirect' types of actions such as information and education measures before selecting more restrictive measures. When regulations are necessary, they are implemented with the specific intent of balancing the need to preserve the character of the wilderness while providing for the use and enjoyment of wilderness.

The following wilderness regulations are in effect for this area. Not all regulations are in effect for every wilderness. Contact the national forest office or visit the websites listed below for more specific information about the regulations listed.

- CACHING OF EQUIPMENT PROHIBITED
- DISPOSING OF DEBRIS, GARBAGE PROHIBITED
- FIREWORKS PROHIBITED
  - POSSESSING, DISCHARGING, OR USING ANY TYPE FIREWORKS OR OTHER PYROTECHNIC DEVICE IS PROHIBITED.
- MAXIMUM LENGTH OF STAY : 30 DAYS
  - CAMPING IS PROHIBITED FOR A PERIOD OF LONGER THAN THIRTY (30) CONSECUTIVE DAYS ON ALL FOREST SERVICE LANDS IN MISSISSIPPI WITH THE EXCEPTION OF DEVELOPED RECREATION AREAS UNTIL FURTHER NOTICE. VIOLATION OF THIS

PROHIBITION IS PUNISHABLE BY A FINE OF NOT MORE THAN \$5,000 OR IMPRISONMENT FOR NOT MORE THAN SIX MONTHS OR BOTH.

- MECHANICAL PROPULSION DEVICES PROHIBITED
  - OPERATING AN INTERNAL COMBUSTION ENGINE, EXCEPT FOR OUTBOARD MOTORS IN THE BLACK CREEK RIVER.
- WAGON, WHEELBARROW, STROLLER, BICYCLE, GAME CART OR OTHER VEHICLE PROHIBITED (WHEELCHAIRS ALLOWED)

## Contacts

### De Soto Ranger District

PO BOX 248

654 WEST FRONTAGE ROAD

WIGGINS, MS 39577

Phone: 601-928-6160

Restrictions: Office hours are from 7:30 AM to 4:00 PM, Monday through Friday, except federal holidays.

## Links to Other Websites

<http://www.southernregion.fs.fed.us/mississippi/desoto/> -- De Soto Ranger District Website - National Forests in Mississippi

## Links on Wilderness.net

<http://www.wilderness.net/index.cfm?fuse=NWPS&sec=links&WLCID=7#results> --

National, Regional and Local Wilderness Organizations (NGOs)

A listing of societies, organizations, coalitions and other wilderness-related advocacy and stewardship groups.

<http://www.wilderness.net/index.cfm?fuse=NWPS&sec=links&WLCID=11#results> --

Career and Volunteer Opportunities

A listing of sites providing information about wilderness- and environmentally-related career and volunteer opportunities.

## Things to Consider When Planning a Trip to Wilderness

- Plan Ahead and Prepare
  - Know the regulations and special concerns for the area you'll visit.
  - Prepare for extreme weather, hazards, and emergencies.
  - Schedule your trip to avoid times of high use.

- Visit in small groups. Split larger parties into groups of 4-6.
- Repackage food to minimize waste.
- Use a map and compass to eliminate the use of marking paint, rock cairns or flagging.
- Travel and Camp on Durable Surfaces
  - Durable surfaces include established trails and campsites, rock, gravel, dry grasses or snow.
  - Protect riparian areas by camping at least 200 feet from lakes and streams.
  - Good campsites are found, not made. Altering a site is not necessary.
  - In popular areas:
    - Concentrate use on existing trails and campsites.
    - Walk single file in the middle of the trail, even when wet or muddy.
    - Keep campsites small. Focus activity in areas where vegetation is absent.
  - In pristine areas:
    - Disperse use to prevent the creation of campsites and trails.
    - Avoid places where impacts are just beginning.
- Dispose of Waste Properly
  - Pack it in, pack it out. Inspect your campsite and rest areas for trash or spilled foods. Pack out all trash, leftover food, and litter.
  - Deposit solid human waste in catholes dug 6 to 8 inches deep at least 200 feet from water, camp, and trails. Cover and disguise the cathole when finished.
  - Pack out toilet paper and hygiene products.
  - To wash yourself or your dishes, carry water 200 feet away from streams or lakes and use small amounts of biodegradable soap. Scatter strained dishwater.
- Leave What You Find
  - Preserve the past: examine, but do not touch, cultural or historic structures and artifacts.
  - Leave rocks, plants and other natural objects as you find them.
  - Avoid introducing or transporting non-native species.
  - Do not build structures, furniture, or dig trenches.
- Minimize Campfire Impacts
  - Campfires can cause lasting impacts to the backcountry. Use a lightweight stove for cooking and enjoy a candle lantern for light.
  - Where fires are permitted, use established fire rings, fire pans, or mound fires.
  - Keep fires small. Only use sticks from the ground that can be broken by hand.
  - Burn all wood and coals to ash, put out campfires completely, then scatter cool ashes.
- Respect Wildlife

- Observe wildlife from a distance. Do not follow or approach them.
- Never feed animals. Feeding wildlife damages their health, alters natural behaviors, and exposes them to predators and other dangers.
- Protect wildlife and your food by storing rations and trash securely.
- Control pets at all times, or leave them at home.
- Avoid wildlife during sensitive times: mating, nesting, raising young, or winter.
- Be Considerate of Other Visitors
  - Respect other visitors and protect the quality of their experience.
  - Be courteous. Yield to other users on the trail.
  - Step to the downhill side of the trail when encountering pack stock.
  - Take breaks and camp away from trails and other visitors.
  - Let nature's sounds prevail. Avoid loud voices and noises.

The source for the above information is the Leave No Trace: Center for Outdoor Ethics. For more detailed information on the seven principles of Leave No Trace and suggestions you can use to help plan a trip to wilderness, visit the following address: <http://www.lnt.org/programs/lnt7/index.html>.

## **General Equipment List**

The following is a general list of the types of equipment recommended for backcountry travel. You will want to modify this list accordingly for the climate in which you will be traveling. For example, if you are traveling in cold, high-mountain country you will may want to pack additional cold-weather clothing or mountaineering gear. Additionally, if you plan hunt, fish, canoe etc. in wilderness, you will want to pack additional gear needed for such activities.

- Tent
- Sleeping bag with stuff sack
- Backpack
- Clothing
  - Hiking boots (broken in and waterproofed)
  - Socks (wool and liner)
  - Jacket/sweater
  - Rain gear
  - Hat and/or stocking cap
  - Shirts (long- and short-sleeve), pants, shorts (pack according to the climate you will be travelling in)

- Cook stove with extra fuel bottle
- Cook pans
- Waterproof matches or lighter
- Bear canister (if travelling in bear country)
- Rope (long enough to hang food, if necessary)
- Cup, bowl, spoon, fork, knife (sharpened)
- Water bottles or canteens
- Water filter or water treatment kit
- Garbage bags, ziplock-type bags (for packing out waste and repackaging food)
- Sun glasses
- Mosquito repellent, chapstick, sun screen
- Toilet paper (in plastic bag with additional plastic bag for packing out used paper)
- Flashlight or headlamp (with extra batteries and bulb), candle lantern
- Toiletries (toothbrush/paste, personal medications etc.)
- First-aid kit, emergency survival blanket
- Repair kits for your stove, tent, backpack, hiking boots etc.
- Camera, binoculars
- Maps, compass, field guide, guidebook

The above information was obtained from the following URL and is current as of 2/26/10:

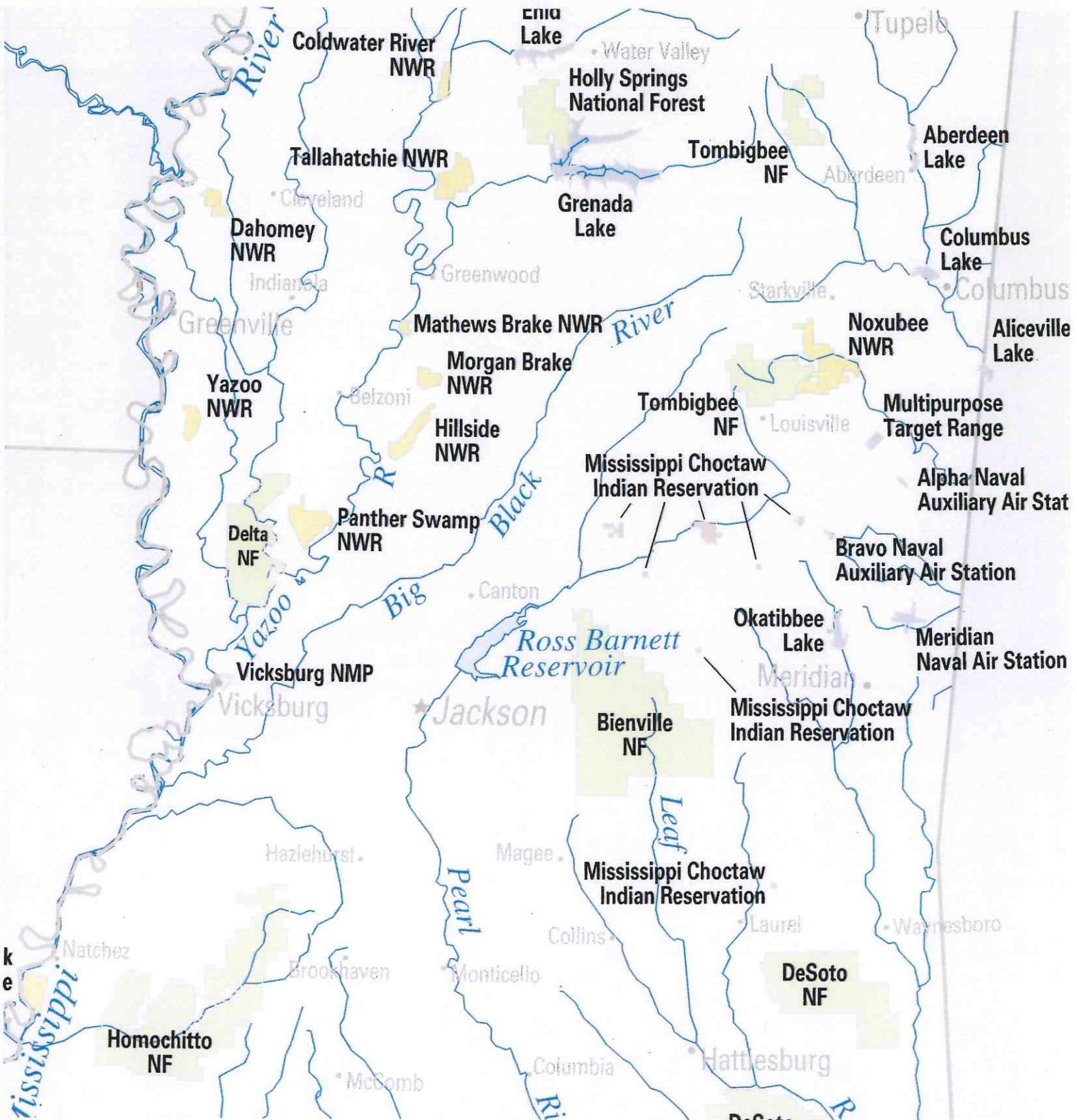
<http://www.wilderness.net/index.cfm?fuse=NWPS&sec=wildView&WID=314>



Feedback Analytics

# Appendix C





# Southeast Region

## Conserving the Nature of America

- [Refuge Finder](#)
- [Service Finder](#)
- [Office Finder](#)
- [Contact Finder](#)
  
- [About Southeast Region](#)
- [Climate Change in the SE](#)
- [Connecting People with Nature:](#)
  - [Lets Go Outside](#)
  - [Educators](#)
  - [Southeast Kids](#)
  - [Reference and Research](#)
  - [Publications](#)
  - [Southeastern Currents](#)
- [Fish & Wildlife](#)
  - [Ecological Services](#)
    - [Contaminants](#)
    - [Coastal Program](#)
    - [Partners for FWS](#)
    - [T & E Species: Achieving Recovery and Preventing Extinction](#)
    - [Recovery Program](#)
  - [Aquatic Resources: National Fish Habitat Action Plan](#)
  - [Migratory Birds: Conservation & Management](#)
- [Get Involved](#)
  - [Business Opportunities](#)
  - [Friends](#)
  - [Jobs](#)
  - [Volunteer](#)
- [NWRs: Conserving Our Lands & Resources](#)
  - [National Wildlife Refuges](#)
  - [Invasive Species](#)
- [Landscape Conservation:](#)

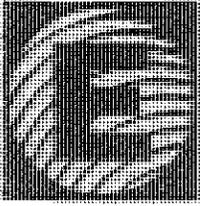
### Map of Mississippi



### National Wildlife Refuges

- [Bogue Chitto NWR](#)
- [Dahomey NWR](#)
- [Grand Bay NWR](#)
- [Hillside NWR](#)
- [Holt Collier NWR](#)
- [Mathews Brake NWR](#)
- [MS Sandhill Crane NWR](#)
- [Morgan Brake NWR](#)
- [Noxubee NWR](#)
- [Panther Swamp NWR](#)

# Appendix D



**ENVIRONMENTAL ENGINEERS, INC.**

**11578 US Highway 411, Odenville, Alabama 35120**

*Environmental and Geological Consultants*

January 30, 2008

Mr. Ray Aycock  
United States Fish and Wildlife Service  
6578 Dogwood View Parkway  
Jackson, Mississippi 39213

Subject:  
**Proposed MSWIN 20103 C Wireless Communications Tower**  
**Bowerton, Copiah County, Mississippi**  
Environmental Engineers, Inc. Project No.: JSE01P0814

Dear Mr. Aycock:

Environmental Engineers, Inc. is requesting comment from the U.S. Fish and Wildlife Service on behalf of Towers of Mississippi and the State of Mississippi regarding impact to threatened or endangered species by construction of a wireless communications tower in Copiah County, Mississippi.

The site is depicted on the United States Geological Survey 7.5-minute Topographic Quadrangle "Midway, Mississippi," dated 1972. The site is located in the northeast ¼ of the southeast ¼ of Section 17, Township 9 North, Range 6 East, Copiah County, Mississippi, at latitude 31°44'53.612" north and longitude 90°36'59.242" west (Figure 1). The site consists of a 100-foot by 100-foot lease area with three associated guy anchor easements and a proposed access road. The site is located off of John Hay Road in Bowerton, Mississippi. The lease area is located in a pasture and slopes gently downward to the southeast. The proposed access road enters the site from the east. Proposed activities consist of construction of a 430-foot guyed communications tower, enclosing the compound in a fence, placement of support equipment within the compound, grading an access road, and covering the compound and access road with gravel. I have included a site location map and site photographs for your review.

Environmental Engineers, Inc. appreciates the opportunity to provide this information. Please reference the Environmental Engineers, Inc. project number (JSE01P0814) in correspondence regarding this site. Thank you for your time and assistance and we look forward to your response. Please call us at (205) 629-3868 if you have any questions or comments.

Sincerely,

ENVIRONMENTAL ENGINEERS, INC.

Angela Burtram  
Staff Engineer

Attachments Site Location Map and Site Photographs

Phone: (205) 629-3868 • Fax: (877) 847-3060

U.S. Postal Service  
**CERTIFIED MAIL RECEIPT**  
 (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at [www.usps.com](http://www.usps.com)

**OFFICIAL USE**

7007 2680 0002 3655 6032

Postage	\$		1/30/09
Certified Fee			CELD1 PD814
Return Receipt Fee (Endorsement Required)			Postmark Here
Restricted Delivery Fee (Endorsement Required)			JSEC1 PD814
Total Postage & Fees		\$6.75	JSEC1 PD815 JSEC1 PD816 JSEC1 PD817
Sent To <u>Mr. Ray Aycock</u>			
Street, Apt. No., or PO Box No.			
City, State, ZIP+4			
PS Form 3800, August 2006		See Reverse for Instructions	

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:  
 Mr. Ray Aycock  
 USF+WS  
 6578 Dogwood View Pkwy  
 Jackson, MS 39213

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature [Signature]  Agent  Addressee

B. Received by (Printed Name) Klewerford C. Date of Delivery 1/30/09

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type  
 Certified Mail  Express Mail  
 Registered  Return Receipt for Merchandise  
 Insured Mail  C.O.D.

4. Restricted Delivery? (Extra Fee)  Yes

2. Article Number  
 (Transfer from service label)

7007 2680 0002 3655 6032



United States Department of the Interior

FISH AND WILDLIFE SERVICE  
Mississippi Field Office  
6578 Dogwood View Parkway, Suite A  
Jackson, MS 39213



February 23, 2009

ENVIRONMENTAL ENGINEERS

Ms. Angela Burttram  
Environmental Engineers, Inc.  
11578 US Highway 411  
Odenville, Alabama 35120

FEB 25 2009

RECEIVED

RE: Proposed Tower in Copiah County, Mississippi, Project No: JSE01P0814

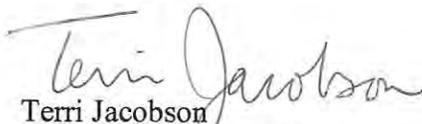
Dear Ms. Burttram:

The U.S. Fish and Wildlife Service (Service) received your letter dated January 30, 2009 regarding the proposed construction of a new wireless telecommunications structure in Copiah County, Mississippi. The proposal is for constructing a 430-foot guyed tower within a 100-foot by 100-foot fenced equipment compound located off of John Hay Road in Bowerton. Our comments are submitted in accordance with the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and the Migratory Bird Treaty Act (16 U.S.C. 703-711).

Although there are two federally listed terrestrial species for Copiah County (Louisiana black bear and red-cocakaded woopecker), based on the project site photographs and a relatively small project footprint, the Service determines that this project will have no effect on listed species or critical habitat. However, due to the adverse impact these towers can have on migratory birds, we are attaching guidelines to reduce bird mortality.

Thank you for the opportunity to comment on this project. Please contact this office if your project plans change or if you have any questions. My office phone number is (601) 321-1129.

Sincerely,

  
Terri Jacobson  
Fish and Wildlife Biologist

# Appendix E

## U.S. Fish and Wildlife Service Tower Guidance

Due to the adverse impact telecommunications towers can have on migratory birds, we would like to make the following recommendations:

1. Co-locate communications equipment on an existing communication tower or other structure (e.g., billboard, water tower, or building mount). Depending on tower load factors, from 6 to 10 providers may collocate on an existing tower.
2. If co-location is not feasible and a new tower or towers are to be constructed, towers should be no more than 199 feet above ground level (AGL), use construction techniques which do not require guy wires (e.g., use a lattice structure, monopole, etc.). Towers should be unlighted if Federal Aviation Administration regulations permit.
3. If constructing multiple towers, consider the cumulative impacts of all towers to migratory birds and threatened and endangered species as well as the impacts of each individual tower.
4. If at all possible, new towers should be sited within existing "antenna farms" (clusters of towers). Towers should not be sited in or near wetlands, other known bird concentration areas (e.g., state or Federal refuges, staging areas, rookeries), in known migratory or daily movement flyways, or in habitat of threatened or endangered species. Towers should not be sited in areas with a high incidence of fog, mist, and low ceilings.
5. If taller (>199 feet AGL) towers requiring lights for aviation safety must be constructed, the minimum amount of pilot warning and obstruction avoidance lighting required by the FAA should be used. Unless otherwise required by the FAA, only white (preferable) or red strobe lights should be used at night, and these should be the minimum number, minimum intensity, and minimum number of flashes per minute (longest duration between flashes) allowable by the FAA. The use of solid red or pulsating red warning lights at night should be avoided. Current research indicates that solid or pulsating (beacon) red lights attract night-migrating birds at a much higher rate than white strobe lights. Red strobe lights have not yet been studied.
6. Tower designs using guy wires for support which are proposed to be located in known raptor or waterbird concentration areas or daily movement routes, or in major diurnal migratory bird movement routes or stopover sites, should have daytime visual markers on the wires to prevent collisions by these diurnally moving species. (For guidance on markers, see *Suggested Practices for Avian Protection on Power Lines: The State of the Art in 2006* - a profile of the research and safeguards available to remedy the issue of avian electrocutions. Copies can be obtained from Edison Electric Institute by calling 1-800-334-5453 or via the Internet at [http://www.eei.org/products\\_and\\_services/descriptions\\_and\\_access/index.htm](http://www.eei.org/products_and_services/descriptions_and_access/index.htm).)

7. Towers and appendant facilities should be sited, designed and constructed so as to avoid or minimize habitat loss within and adjacent to the tower "footprint". However, a larger tower footprint is preferable to the use of guy wires in construction. Road access and fencing should be minimized to reduce or prevent habitat fragmentation and disturbance, and to reduce above ground obstacles to birds in flight.
8. If significant numbers of breeding, feeding, or roosting birds are known to habitually use the proposed tower construction area, relocation to an alternate site is recommended.
9. In order to reduce the number of towers needed in the future, new towers should be designed structurally and electrically to accommodate comparable antennas for at least two additional users (minimum of three users for each tower structure), unless this design would require the addition of lights or guy wires to an otherwise unlighted and/or unguyed tower.
10. Security lighting for on-ground facilities and equipment should be down-shielded to keep light within the boundaries of the site.
11. Service personnel or researchers from the Communication Tower Working Group should be allowed, if asked, access to the site to evaluate bird use, conduct dead-bird searches, to place net catchments below the towers but above the ground, and to place radar, Global Positioning System, infrared, thermal imagery, and acoustical monitoring equipment as necessary to assess and verify bird movements and to gain information on the impacts of various tower sizes, configurations, and lighting systems.
12. Towers no longer in use or determined to be obsolete should be removed within twelve months of cessation of use.

These voluntary recommendations are based on the Service's Guidance on the Siting, Construction, Operation and Decommissioning of Communications Towers which can be found at <http://www.fws.gov/migratorybirds/issues/towers/comtow.html>.

In order to obtain information on the usefulness of these guidelines in preventing bird strikes, and to identify any recurring problems with their implementation which may necessitate modifications, please advise us of the final location and specifications of the proposed tower. In your response please explain which of the recommended measures were implemented and if the recommended measures could not be implemented, please explain why they were not feasible.

# Appendix F

## Henry Fisher

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**From:** towernotifyinfo@fcc.gov  
**Sent:** Thursday, January 15, 2009 2:59 PM  
**To:** towerinfo@envciv.com  
**Subject:** Proposed Tower Structure Info - Email ID #2102825

Dear Henry A Fisher,

Thank you for submitting a notification regarding your proposed structure via the Tower Construction Notification Application. Note that the FCC has assigned a unique Notification ID number for this proposed structure.

You will need to reference this Notification ID number when you update your project's Status with us.

Below are the details you provided for the tower you have proposed to construct:

Notification Received: 01/15/2009

Notification ID: 48291

Tower Owner Individual or Entity Name: Towers of Mississippi/State of Mississippi

Consultant Name: Henry A Fisher

Street Address: 11578 U.S. Highway 411

City: Odenville

State: ALABAMA

Zip Code: 35120

Phone: 205-629-3868

Email: [towerinfo@envciv.com](mailto:towerinfo@envciv.com)

Structure Type: GTOWER - Guyed Tower

Latitude: 31 deg 44 min 53.6 sec N

Longitude: 90 deg 36 min 59.2 sec W

Location Description: off John Hay Road

City: Bowerton

State: MISSISSIPPI

County: COPIAH

Ground Elevation: 149.3 meters

Support Structure: 131.1 meters above ground level

Overall Structure: 131.1 meters above ground level

Overall Height AMSL: 280.4 meters above mean sea level

48291 TOM/MS

**Henry Fisher**

---

**From:** towernotifyinfo@fcc.gov  
**Sent:** Friday, January 23, 2009 2:01 AM  
**To:** towerinfo@envciv.com  
**Cc:** kim.pristello@fcc.gov; diane.dupert@fcc.gov  
**Subject:** NOTICE OF ORGANIZATION(S) WHICH WERE SENT PROPOSED TOWER CONSTRUCTION NOTIFICATION INFORMATION - Email ID #2104452

Dear Sir or Madam:

Thank you for using the Federal Communications Commission's (FCC) Tower Construction Notification System (TCNS). The purpose of this electronic mail message is to inform you that the following authorized persons were sent the information you provided through TCNS, which relates to your proposed antenna structure. The information was forwarded by the FCC to authorized TCNS users by electronic mail and/or regular mail (letter).

Persons who have received the information that you provided include leaders or their designees of federally-recognized American Indian Tribes, including Alaska Native Villages (collectively "Tribes"), Native Hawaiian Organizations (NHOs), and State Historic Preservation Officers (SHPOs). For your convenience in identifying the referenced Tribes and in making further contacts, the City and State of the Seat of Government for each Tribe and NHO, as well as the designated contact person, is included in the listing below. We note that Tribes may have Section 106 cultural interests in ancestral homelands or other locations that are far removed from their current Seat of Government. Pursuant to the Commission's rules as set forth in the Nationwide Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings Approved by the Federal Communications Commission (NPA), all Tribes and NHOs listed below must be afforded a reasonable opportunity to respond to this notification, consistent with the procedures set forth below, unless the proposed construction falls within an exclusion designated by the Tribe or NHO. (NPA, Section IV.F.4).

The information you provided was forwarded to the following Tribes and NHOs who have set their geographic preferences on TCNS. If the information you provided relates to a proposed antenna structure in the State of Alaska, the following list also includes Tribes located in the State of Alaska that have not specified their geographic preferences. For these Tribes and NHOs, if the Tribe or NHO does not respond within a reasonable time, you should make a reasonable effort at follow-up contact, unless the Tribe or NHO has agreed to different procedures (NPA, Section IV.F.5). In the event such a Tribe or NHO does not respond to a follow-up inquiry, or if a substantive or procedural disagreement arises between you and a Tribe or NHO, you must seek guidance from the Commission (NPA, Section IV.G). These procedures are further set forth in the FCC's Declaratory Ruling released on October 6, 2005 (FCC 05-176).

- 1. THPO Kenneth H Carleton - Mississippi Band of Choctaw Indians - Choctaw, MS - electronic mail

Exclusions: Please send all information via e-mail (and only via e-mail - no paper copies please) to: choctawhp@gmail.com (9 meg attachment limit)

The Mississippi Band of Choctaw Indians wishes to see full information packets for all towers within the designated areas for consultation.

Form 620, if it includes the a full text of the cultural resource survey with maps, is adequate for our needs. If your 620 does not include the text of the cultural resource survey, then attach it seperately.

Please include the tower identification (TCNS#, name, and any other information that may help us identify this site) and the county and state where the facility is proposed in the subject line.

If the applicant/tower builder receives no response from the Mississippi Band of Choctaw Indians within 30 days AFTER YOU HAVE E-MAILED THE AFOREMENTIONED INFORMATION TO US (begin counting the 30 day period AFTER the e-mail with all of the information has been sent), then the Mississippi Band of Choctaw Indians has no interest in participating in pre-construction review for the proposed site. The Applicant/tower builder, however, must immediately notify the Mississippi Band of Choctaw Indians in the event archaeological properties or human remains are discovered during construction, consistent with Section IX of the Nationwide Programmatic Agreement and applicable law.

2. Compliance Review Supervisor Dawn P Hutchins - Seminole Tribe of Florida - Clewiston, FL - electronic mail

3. Director of Cultural Resources & THPO Terry D Cole - Choctaw Nation of Oklahoma - Durant, OK - electronic mail and regular mail

Exclusions: The Applicant may conclude that the Choctaw Nation of Oklahoma has no interest in a site if there is existing disturbance wherein the depth of the previous disturbance exceeds the proposed construction depth (excluding footing and other anchoring mechanisms) by at least 2 feet (Applying VI - D(2)(c)(i) of the Nationwide Programmatic Agreement concerning Field Surveys; 'In the Matter of Nationwide Programmatic Agreement Regarding the Section 106 National Historic Preservation Act Review Process,' Report and Order, 20 FCC Rcd. 1073, WT Docket No. 03-128, October 5, 2004).

Furthermore, the Choctaw Nation of Oklahoma does not have an interest in a Tower that will be constructed on an existing structure, developed land, or within city limits. However, any of the above mentioned criteria should be communicated to us if not evident in the initial Notification Details. For all other towers, we request a signed field survey report that meets the Federal guidelines set forth by the Department of the Interior and a site location map along with pictures for each project.

Additionally, the Choctaw Nation of Oklahoma has informed FCC Staff that if the Applicant does not receive a response from the Tribe within 30 days of a TCNS notification, then the Applicant SHOULD MAKE A GOOD FAITH EFFORT WITH A FOLLOW-UP PHONE CALL to make sure that the tribe is aware of the proposed tower project. However, should construction expose buried archaeological or building materials such as chipped stone, tools, pottery, bone, historical crockery, glass or metal items, this office should be contacted immediately @ 1-800-522-6170 ext. 2137. [n.b. Please reference the TCNS number in all communications that follow the initial notification.]

4. MEKKO and Acting Tribal Administrator Jennie Lillard - Kialegee Tribal Town - Wetumka, OK - regular mail

Exclusions: If the Applicant receives no response from the Kialegee Tribal Town within 30 days after notification through TCNS, the Kialegee Tribal Town has no interest in participating in pre-construction review for the site. The Applicant, however, must immediately notify the Kialegee Tribal Town in the event archaeological properties or human remains are discovered during construction.

5. THPO Earl J Barbry Jr - Tunica-Biloxi Indians of Louisiana - Marksville, LA - regular mail

The information you provided was also forwarded to the additional Tribes and NHOs listed below. These Tribes and NHOs have NOT set their geographic preferences on TCNS, and therefore they are currently receiving tower notifications for the entire United States. For these Tribes and NHOs, you are required to use reasonable and good faith efforts to determine if the Tribe or NHO may attach religious and cultural significance to historic properties that may be affected by its proposed undertaking. Such efforts may include, but are not limited to, seeking information from the relevant SHPO or THPO, Indian Tribes, state agencies, the U.S. Bureau of Indian Affairs, or, where applicable, any federal agency with land holdings within the state (NPA, Section IV.B). If after such reasonable and good faith efforts, you determine that a Tribe or NHO may attach religious and cultural significance to historic properties in the area and the Tribe or NHO does not respond to TCNS notification within a reasonable time, you should make a reasonable effort to follow up, and must seek guidance from the Commission in the event of continued non-response or in the event of a procedural or substantive disagreement. If you determine that the Tribe or NHO is unlikely to attach religious and cultural significance to historic properties within the area, you do not need to take further action unless the Tribe or NHO indicates an interest in the proposed construction or other evidence of potential interest comes to your attention.

None

The information you provided was also forwarded to the following SHPOs in the State in which you propose to construct and neighboring States. The information was provided to these SHPOs as a courtesy for their information and planning. You need make no effort at this time to follow up with any SHPO that does not respond to this notification. Prior to construction, you must provide the SHPO of the State in which you propose to construct (or the Tribal Historic Preservation Officer, if the project will be located on certain Tribal lands), with a Submission Packet pursuant to Section VII.A of the NPA.

6. SHPO Lee Warner - Alabama Historical Commission - Montgomery, AL - electronic mail

7. Deputy SHPO Elizabeth Ann Brown - Alabama Historical Commission - Montgomery, AL - electronic mail

8. SHPO Cathie Matthews - Department of Arkansas Heritage - Little Rock, AR - electronic mail

9. Deputy SHPO Ken Grunewald - Department of Arkansas Heritage - Little Rock, AR - electronic mail

10. SHPO Elbert Hilliard - Mississippi Dept of Archives & History - Jackson, MS - regular mail

11. Deputy SHPO Kenneth H P'Pool - Division of Historic Preservation - Jackson, MS -  
electronic mail

"Exclusions" above set forth language provided by the Tribe, NHO, or SHPO. These exclusions may indicate types of tower notifications that the Tribe, NHO, or SHPO does not wish to review. TCNS automatically forwards all notifications to all Tribes, NHOs, and SHPOs that have an expressed interest in the geographic area of a proposal, as well as Tribes and NHOs that have not limited their geographic areas of interest. However, if a proposal falls within a designated exclusion, you need not expect any response and need not pursue any additional process with that Tribe, NHO, or SHPO. Exclusions may also set forth policies or procedures of a particular Tribe, NHO, or SHPO (for example, types of information that a Tribe routinely requests, or a policy that no response within 30 days indicates no interest in participating in pre-construction review).

If you are proposing to construct a facility in the State of Alaska, you should contact Commission staff for guidance regarding your obligations in the event that Tribes do not respond to this notification within a reasonable time.

Please be advised that the FCC cannot guarantee that the contact(s) listed above opened and reviewed an electronic or regular mail notification. The following information relating to the proposed tower was forwarded to the person(s) listed above:

Notification Received: 01/15/2009  
Notification ID: 48291  
Tower Owner Individual or Entity Name: Towers of Mississippi/State of Mississippi  
Consultant Name: Henry A Fisher  
Street Address: 11578 U.S. Highway 411  
City: Odenville  
State: ALABAMA  
Zip Code: 35120  
Phone: 205-629-3868  
Email: towerinfo@envciv.com

Structure Type: GTOWER - Guyed Tower  
Latitude: 31 deg 44 min 53.6 sec N  
Longitude: 90 deg 36 min 59.2 sec W  
Location Description: off John Hay Road  
City: Bowerton  
State: MISSISSIPPI  
County: COPIAH  
Ground Elevation: 149.3 meters  
Support Structure: 131.1 meters above ground level  
Overall Structure: 131.1 meters above ground level  
Overall Height AMSL: 280.4 meters above mean sea level

If you have any questions or comments regarding this notice, please contact the FCC using the electronic mail form located on the FCC's website at:

<http://wireless.fcc.gov/outreach/notification/contact-fcc.html>.

You may also call the FCC Support Center at (877) 480-3201 (TTY 717-338-2824). Hours are from 8 a.m. to 7:00 p.m. Eastern Time, Monday through Friday (except Federal holidays). To provide quality service and ensure security, all telephone calls are recorded.

Thank you,  
Federal Communications Commission

# Appendix G

**NT SUBMISSION PACKET – FCC FORM 620**

Approved by OMB  
3060-1039  
Estimated Time Per Response:  
.5 to 10 hours

**The NT Submission Packet is to be used only for the construction of new antenna support structures.** Antenna collocations that are subject to Section 106 review should be submitted using the Collocation (“CO”) Submission Packet (FCC Form 621).

**General Instructions: NT Submission Packet**

Fill out the answers to Questions 1-5 on Form 620 and provide the requested attachments. Attachments should be numbered and provided in the order described below.

For ease of processing, provide the Applicant's Name, Applicant's Project Name, and Applicant's Project Number in the lower right hand corner of each page of Form 620 and attachments.<sup>3</sup>

**1. Applicant Information**

Full Legal Name of Applicant: Towers of Mississippi/State of Mississippi

Name and Title of Contact Person: Taylor Robinson

Address of Contact Person (including Zip Code):  
31560 Blakeley Way, Spanish Fort, AL 36527

Phone: 205-266-4466 Fax: \_\_\_\_\_

E-mail address: trobinson@vulcancompany.com

**2. Applicant's Consultant Information**

Full Legal Name of Applicant's Section 106 Consulting Firm:  
MRS Consultants, LLC.

Name of Principal Investigator: Beth A. Ryba

Title of Principal Investigator: Cultural Resource Specialist/Archaeologist

Investigator's Address: P.O. Box 3146

<sup>3</sup> Some attachments may contain photos or maps on which this information can not be provided.

Applicant's Name: Towers of Mississippi/  
State of Mississippi  
Project Name: Bowerton  
Project Number: 20103-C

NT SUBMISSION PACKET – FCC FORM 620

Approved by OMB  
3060-1039  
Estimated Time Per Response:  
.5 to 10 hours

City: Tuscaloosa State AL Zip Code 35403

Phone: 205-556-6456 Fax: 205-556-6725

E-mail Address: caryba@earthlink.net

Does the Principal Investigator satisfy the Secretary of the Interior’s Professional Qualification Standards?<sup>4</sup> YES NO.

Areas in which the Principal Investigator meets the Secretary of the Interior’s Professional Qualification Standards: M.A. Anthropology (Archaeology)

Other “Secretary of the Interior qualified” staff who worked on the Submission Packet (provide name(s) as well as well as the area(s) in which they are qualified):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**3. Site Information**

a. Street Address of Site: 1315 John Hay Road (nearest street address)

City or Township: Bowerton

County / Parish: Copiah State: MS Zip Code: 39083

b. Nearest Cross Roads: John Hay Road / MS Highway 28

c. NAD 83 Latitude/Longitude coordinates (to tenth of a second):

N 31 ° 44 ' 53.6"; W 90 ° 36 ' 59.2"

<sup>4</sup> The Professional Qualification Standards are available on the cultural resources webpage of the National Park Service, Department of the Interior: <[http://www.cr.nps.gov/local-law/arch\\_stnds\\_9.htm](http://www.cr.nps.gov/local-law/arch_stnds_9.htm)>. The Nationwide Agreement requires use of Secretary-qualified professionals for identification and evaluation of historic properties within the APE for direct effects, and for assessment of effects. The Nationwide Agreement encourages, but does not require, use of Secretary-qualified professionals to identify historic properties within the APE for indirect effects. See Nationwide Agreement, §§ VI.D.1.d, VI.D.1.e, VI.D.2.b, VI.E.5.

Towers of Mississippi/  
Applicant's Name: State of Mississippi  
Project Name: Bowerton  
Project Number: 20103-C

NT SUBMISSION PACKET – FCC FORM 620

Approved by OMB  
3060-1039  
Estimated Time Per Response:  
.5 to 10 hours

d. Proposed tower height above ground level:<sup>5</sup> 430 feet; 131.1 meters

e. Tower type:

guyed lattice tower  self-supporting lattice  monopole

other (briefly describe tower) \_\_\_\_\_

4. Project Status:<sup>6</sup>

a.  Construction not yet commenced;

b.  Construction commenced on [date] \_\_\_\_\_; or,

c.  Construction commenced on [date] \_\_\_\_\_ and was completed on [date] \_\_\_\_\_.

5. Applicant's Determination of Effect:

a. Direct Effects (check one):

- i.  No Historic Properties in Area of Potential Effects ("APE") for direct effects;
- ii.  "No effect" on Historic Properties in APE for direct effects;
- iii.  "No adverse effect" on Historic Properties in APE for direct effects;
- iv.  "Adverse effect" on one or more Historic Properties in APE for direct effects.

b. Visual Effects (check one):

- i.  No Historic Properties in Area of Potential Effects ("APE") for visual effects;
- ii.  "No effect" on Historic Properties in APE for visual effects;
- iii.  "No adverse effect" on Historic Properties in APE for visual effects;
- iv.  "Adverse effect" on one or more Historic Properties in APE for visual effects.

<sup>5</sup> Include top-mounted attachments such as lightning rods.

<sup>6</sup> Failure to provide the Submission Packet and complete the review process under Section 106 of the NHPA prior to beginning construction may violate Section 110(k) of the NHPA and the Commission's rules. See Section X of the Nationwide Agreement.

Towers of Mississippi/  
Applicant's Name: State of Mississippi  
Project Name: Bowerton  
Project Number: 20103-C

NT SUBMISSION PACKET – FCC FORM 620

Approved by OMB  
3060-1039  
Estimated Time Per Response:  
.5 to 10 hours

Certification and Signature

I certify that all representations on this FCC Form 620 and the accompanying attachments are true, correct, and complete.



\_\_\_\_\_  
Signature

01/26/09

\_\_\_\_\_  
Date

Beth A. Ryba

\_\_\_\_\_  
Printed Name

Archaeologist/Cultural Resource Specialist

\_\_\_\_\_  
Title

WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ANY ATTACHMENTS ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title 18, Section 1001) AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. Code, Title 47, Section 312(a)(1) AND/ OR FORFEITURE (U.S. Code, Title 47, Section 503).

Towers of Mississippi/  
Applicant's Name: State of Mississippi  
Project Name: Bowerton  
Project Number: 20103-C

ATTACHMENT 1  
Vitac

ATTACHMENT 2  
ATTACHMENT 7  
ATTACHMENT 8  
ATTACHMENT 9  
ATTACHMENT 10  
ATTACHMENT 11  
ATTACHMENT 12

See Accompanying Cultural Resource Report

**Attachment 3. Tribal and NHO Involvement**

Initial consultation with Native American tribes/organizations was submitted by Environmental Engineers, January 15, 2009 through the FCC Tower Construction Notification System (TCNS).

Applicant's Name: Towers of Mississippi/State of Mississippi  
Project Name: MSWIN 20103 C  
Project Number: JSE01P0814

## Henry Fisher

---

**From:** towernotifyinfo@fcc.gov  
**Sent:** Thursday, January 15, 2009 2:59 PM  
**To:** towerinfo@envciv.com  
**Subject:** Proposed Tower Structure Info - Email ID #2102825

Dear Henry A Fisher,

Thank you for submitting a notification regarding your proposed structure via the Tower Construction Notification Application. Note that the FCC has assigned a unique Notification ID number for this proposed structure.

You will need to reference this Notification ID number when you update your project's Status with us.

Below are the details you provided for the tower you have proposed to construct:

Notification Received: 01/15/2009

Notification ID: 48291

Tower Owner Individual or Entity Name: Towers of Mississippi/State of Mississippi

Consultant Name: Henry A Fisher

Street Address: 11578 U.S. Highway 411

City: Odenville

State: ALABAMA

Zip Code: 35120

Phone: 205-629-3868

Email: [towerinfo@envciv.com](mailto:towerinfo@envciv.com)

Structure Type: GTOWER - Guyed Tower

Latitude: 31 deg 44 min 53.6 sec N

Longitude: 90 deg 36 min 59.2 sec W

Location Description: off John Hay Road

City: Bowerton

State: MISSISSIPPI

County: COPIAH

Ground Elevation: 149.3 meters

Support Structure: 131.1 meters above ground level

Overall Structure: 131.1 meters above ground level

Overall Height AMSL: 280.4 meters above mean sea level

48291 TOM/MJ

**Henry Fisher**

---

**From:** towernotifyinfo@fcc.gov  
**Sent:** Friday, January 23, 2009 2:01 AM  
**To:** towerinfo@envciv.com  
**Cc:** kim.pristello@fcc.gov; diane.dupert@fcc.gov  
**Subject:** NOTICE OF ORGANIZATION(S) WHICH WERE SENT PROPOSED TOWER CONSTRUCTION NOTIFICATION INFORMATION - Email ID #2104452

Dear Sir or Madam:

Thank you for using the Federal Communications Commission's (FCC) Tower Construction Notification System (TCNS). The purpose of this electronic mail message is to inform you that the following authorized persons were sent the information you provided through TCNS, which relates to your proposed antenna structure. The information was forwarded by the FCC to authorized TCNS users by electronic mail and/or regular mail (letter).

Persons who have received the information that you provided include leaders or their designees of federally-recognized American Indian Tribes, including Alaska Native Villages (collectively "Tribes"), Native Hawaiian Organizations (NHOs), and State Historic Preservation Officers (SHPOs). For your convenience in identifying the referenced Tribes and in making further contacts, the City and State of the Seat of Government for each Tribe and NHO, as well as the designated contact person, is included in the listing below. We note that Tribes may have Section 106 cultural interests in ancestral homelands or other locations that are far removed from their current Seat of Government. Pursuant to the Commission's rules as set forth in the Nationwide Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings Approved by the Federal Communications Commission (NPA), all Tribes and NHOs listed below must be afforded a reasonable opportunity to respond to this notification, consistent with the procedures set forth below, unless the proposed construction falls within an exclusion designated by the Tribe or NHO. (NPA, Section IV.F.4).

The information you provided was forwarded to the following Tribes and NHOs who have set their geographic preferences on TCNS. If the information you provided relates to a proposed antenna structure in the State of Alaska, the following list also includes Tribes located in the State of Alaska that have not specified their geographic preferences. For these Tribes and NHOs, if the Tribe or NHO does not respond within a reasonable time, you should make a reasonable effort at follow-up contact, unless the Tribe or NHO has agreed to different procedures (NPA, Section IV.F.5). In the event such a Tribe or NHO does not respond to a follow-up inquiry, or if a substantive or procedural disagreement arises between you and a Tribe or NHO, you must seek guidance from the Commission (NPA, Section IV.G). These procedures are further set forth in the FCC's Declaratory Ruling released on October 6, 2005 (FCC 05-176).

1. THPO Kenneth H Carleton - Mississippi Band of Choctaw Indians - Choctaw, MS - electronic mail

Exclusions: Please send all information via e-mail (and only via e-mail - no paper copies please) to: choctawhp@gmail.com (9 meg attachment limit)

The Mississippi Band of Choctaw Indians wishes to see full information packets for all towers within the designated areas for consultation.

Form 620, if it includes the a full text of the cultural resource survey with maps, is adequate for our needs. If your 620 does not include the text of the cultural resource survey, then attach it seperately.

Please include the tower identification (TCNS#, name, and any other information that may help us identify this site) and the county and state where the facility is proposed in the subject line.

If the applicant/tower builder receives no response from the Mississippi Band of Choctaw Indians within 30 days AFTER YOU HAVE E-MAILED THE AFOREMENTIONED INFORMATION TO US (begin counting the 30 day period AFTER the e-mail with all of the information has been sent), then the Mississippi Band of Choctaw Indians has no interest in participating in pre-construction review for the proposed site. The Applicant/tower builder, however, must immediately notify the Mississippi Band of Choctaw Indians in the event archaeological properties or human remains are discovered during construction, consistent with Section IX of the Nationwide Programmatic Agreement and applicable law.

2. Compliance Review Supervisor Dawn P Hutchins - Seminole Tribe of Florida - Clewiston, FL - electronic mail

3. Director of Cultural Resources & THPO Terry D Cole - Choctaw Nation of Oklahoma - Durant, OK - electronic mail and regular mail

Exclusions: The Applicant may conclude that the Choctaw Nation of Oklahoma has no interest in a site if there is existing disturbance wherein the depth of the previous disturbance exceeds the proposed construction depth (excluding footing and other anchoring mechanisms) by at least 2 feet (Applying VI - D(2)(c)(i) of the Nationwide Programmatic Agreement concerning Field Surveys; 'In the Matter of Nationwide Programmatic Agreement Regarding the Section 106 National Historic Preservation Act Review Process,' Report and Order, 20 FCC Rcd. 1073, WT Docket No. 03-128, October 5, 2004).

Furthermore, the Choctaw Nation of Oklahoma does not have an interest in a Tower that will be constructed on an existing structure, developed land, or within city limits. However, any of the above mentioned criteria should be communicated to us if not evident in the initial Notification Details. For all other towers, we request a signed field survey report that meets the Federal guidelines set forth by the Department of the Interior and a site location map along with pictures for each project.

Additionally, the Choctaw Nation of Oklahoma has informed FCC Staff that if the Applicant does not receive a response from the Tribe within 30 days of a TCNS notification, then the Applicant SHOULD MAKE A GOOD FAITH EFFORT WITH A FOLLOW-UP PHONE CALL to make sure that the tribe is aware of the proposed tower project. However, should construction expose buried archaeological or building materials such as chipped stone, tools, pottery, bone, historical crockery, glass or metal items, this office should be contacted immediately @ 1-800-522-6170 ext. 2137. [n.b. Please reference the TCNS number in all communications that follow the initial notification.]

4. MEKKO and Acting Tribal Administrator Jennie Lillard - Kialegee Tribal Town - Wetumka, OK - regular mail

Exclusions: If the Applicant receives no response from the Kialegee Tribal Town within 30 days after notification through TCNS, the Kialegee Tribal Town has no interest in participating in pre-construction review for the site. The Applicant, however, must immediately notify the Kialegee Tribal Town in the event archaeological properties or human remains are discovered during construction.

5. THPO Earl J Barbry Jr - Tunica-Biloxi Indians of Louisiana - Marksville, LA - regular mail

The information you provided was also forwarded to the additional Tribes and NHOs listed below. These Tribes and NHOs have NOT set their geographic preferences on TCNS, and therefore they are currently receiving tower notifications for the entire United States. For these Tribes and NHOs, you are required to use reasonable and good faith efforts to determine if the Tribe or NHO may attach religious and cultural significance to historic properties that may be affected by its proposed undertaking. Such efforts may include, but are not limited to, seeking information from the relevant SHPO or THPO, Indian Tribes, state agencies, the U.S. Bureau of Indian Affairs, or, where applicable, any federal agency with land holdings within the state (NPA, Section IV.B). If after such reasonable and good faith efforts, you determine that a Tribe or NHO may attach religious and cultural significance to historic properties in the area and the Tribe or NHO does not respond to TCNS notification within a reasonable time, you should make a reasonable effort to follow up, and must seek guidance from the Commission in the event of continued non-response or in the event of a procedural or substantive disagreement. If you determine that the Tribe or NHO is unlikely to attach religious and cultural significance to historic properties within the area, you do not need to take further action unless the Tribe or NHO indicates an interest in the proposed construction or other evidence of potential interest comes to your attention.

None

The information you provided was also forwarded to the following SHPOs in the State in which you propose to construct and neighboring States. The information was provided to these SHPOs as a courtesy for their information and planning. You need make no effort at this time to follow up with any SHPO that does not respond to this notification. Prior to construction, you must provide the SHPO of the State in which you propose to construct (or the Tribal Historic Preservation Officer, if the project will be located on certain Tribal lands), with a Submission Packet pursuant to Section VII.A of the NPA.

6. SHPO Lee Warner - Alabama Historical Commission - Montgomery, AL - electronic mail

7. Deputy SHPO Elizabeth Ann Brown - Alabama Historical Commission - Montgomery, AL - electronic mail

8. SHPO Cathie Matthews - Department of Arkansas Heritage - Little Rock, AR - electronic mail

9. Deputy SHPO Ken Grunewald - Department of Arkansas Heritage - Little Rock, AR - electronic mail

10. SHPO Elbert Hilliard - Mississippi Dept of Archives & History - Jackson, MS - regular mail

11. Deputy SHPO Kenneth H P'Pool - Division of Historic Preservation - Jackson, MS -  
electronic mail

"Exclusions" above set forth language provided by the Tribe, NHO, or SHPO. These exclusions may indicate types of tower notifications that the Tribe, NHO, or SHPO does not wish to review. TCNS automatically forwards all notifications to all Tribes, NHOs, and SHPOs that have an expressed interest in the geographic area of a proposal, as well as Tribes and NHOs that have not limited their geographic areas of interest. However, if a proposal falls within a designated exclusion, you need not expect any response and need not pursue any additional process with that Tribe, NHO, or SHPO. Exclusions may also set forth policies or procedures of a particular Tribe, NHO, or SHPO (for example, types of information that a Tribe routinely requests, or a policy that no response within 30 days indicates no interest in participating in pre-construction review).

If you are proposing to construct a facility in the State of Alaska, you should contact Commission staff for guidance regarding your obligations in the event that Tribes do not respond to this notification within a reasonable time.

Please be advised that the FCC cannot guarantee that the contact(s) listed above opened and reviewed an electronic or regular mail notification. The following information relating to the proposed tower was forwarded to the person(s) listed above:

Notification Received: 01/15/2009  
Notification ID: 48291  
Tower Owner Individual or Entity Name: Towers of Mississippi/State of Mississippi  
Consultant Name: Henry A Fisher  
Street Address: 11578 U.S. Highway 411  
City: Odenville  
State: ALABAMA  
Zip Code: 35120  
Phone: 205-629-3868  
Email: towerinfo@envciv.com

Structure Type: GTOWER - Guyed Tower  
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Longitude: 90 deg 36 min 59.2 sec W  
Location Description: off John Hay Road  
City: Bowerton  
State: MISSISSIPPI  
County: COPIAH  
Ground Elevation: 149.3 meters  
Support Structure: 131.1 meters above ground level  
Overall Structure: 131.1 meters above ground level  
Overall Height AMSL: 280.4 meters above mean sea level

If you have any questions or comments regarding this notice, please contact the FCC using the electronic mail form located on the FCC's website at:

<http://wireless.fcc.gov/outreach/notification/contact-fcc.html>.

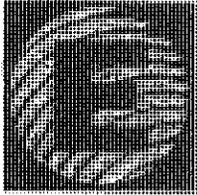
You may also call the FCC Support Center at (877) 480-3201 (TTY 717-338-2824). Hours are from 8 a.m. to 7:00 p.m. Eastern Time, Monday through Friday (except Federal holidays). To provide quality service and ensure security, all telephone calls are recorded.

Thank you,  
Federal Communications Commission

**Attachment 4. Local Government**

The Covich County Board of Supervisors was contacted via letter dated January 16, 2009 for comment regarding potential impacts to historical or cultural sites by the proposed action.

Applicant's Name: Towers of Mississippi/State of Mississippi  
Project Name: MSWIN 20103 C  
Project Number: JSE01P0814



**ENVIRONMENTAL ENGINEERS, INC.**  
11578 US Highway 411, Odenville, Alabama 35120  
*Environmental and Geological Consultants*

January 16, 2009

Copiah County Board of Supervisors  
P O Box 551  
Hazlehurst, MS 39083

Subject:  
**Proposed MSWIN 20103 C Wireless Communications Tower**  
**Bowertown, Copiah County, Mississippi**  
Environmental Engineers, Inc. Project No.: JSE01P0814

To Whom It May Concern:

Pursuant to the requirements of the March 2005 Nationwide Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings Approved by the Federal Communications Commission (NPA) we are requesting comment on behalf of Towers of Mississippi and the State of Mississippi regarding impact to historical or cultural sites listed on, or eligible for listing on the National Register of Historic Places (NRHP) by construction of a wireless communications tower in Bowertown, Copiah County, Mississippi.

The site is depicted on the United States Geological Survey 7.5-minute Topographic Quadrangle "Midway, Mississippi," dated 1972. The site is located in the northeast  $\frac{1}{4}$  of the southeast  $\frac{1}{4}$  of Section 17, Township 9 North, Range 6 East, Copiah County, Mississippi, at Latitude 31°44'53.612" north and 90°36'59.242" west (Figure 1). The site consists of a proposed 100-foot by 100-foot communications tower compound with associated guy anchor easements, and a proposed access road. Proposed activities consist of construction of a 430-foot guyed communications tower, enclosing the compound in a fence, placement of support equipment within the compound, and covering the compound and access road with gravel.

Environmental Engineers, Inc. appreciates the opportunity to provide this information. Please reference the Environmental Engineers, Inc. project number (JSE01P0814) in correspondence regarding this site. Please provide comment within thirty days of the date of this letter. Thank you for your time and assistance and we look forward to your response. Please call me at (205) 629-3868 or email me at [towerinfo@envciv.com](mailto:towerinfo@envciv.com) if you have any questions or comments. You can also send a response to us via facsimile at (877) 847-3060.

Sincerely,

ENVIRONMENTAL ENGINEERS, INC.

  
Angela Burtram  
Staff Engineer

Attachments: Site Location Map

**Phone: (205) 629-3868 • Fax: (877) 847-3060**

U.S. Postal Service  
**CERTIFIED MAIL RECEIPT**  
 (Domestic Mail Only, No Insurance Coverage Provided)

For delivery information, visit our website at [www.usps.com](http://www.usps.com)

**OFFICIAL USE**

7007 0220 0003 4719 7641

Postage	\$	1/19/09  Postmark Here  JSEB 141814
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
<b>Total Postage &amp; Fees</b>	<b>\$ 5.32</b>	
Sent To: <u>Copiah County Bd of Supervisors</u> Street, Apt. No., or PO Box No.: _____ City, State, ZIP+4: _____		

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>■ Completes items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>■ Print your name and address on the reverse so that we can return the card to you.</li> <li>■ Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	A. Signature <u>[Signature]</u> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee B. Received by (Printed Name) <u>MARIE HARRIS</u> Date of Delivery <u>1/22/09</u>
1. Article Addressed to: <u>Copiah County Bd of Supervisors</u> <u>P.O. Box 551</u> <u>Hazelhurst, MS 39083</u>	C. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No
2. Article Number (Transfer from service label)	3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.
7007 0220 0003 4719 7641	4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes

**Attachment 5. Public Involvement**

A notice requesting comment regarding potential impacts to historical or archaeological properties by the proposed action was published in the *Copiah County Courier* on January 21, 2009.

\*

Applicant's Name: Towers of Mississippi/State of Mississippi  
Project Name: MSWIN 20103 C  
Project Number: JSE01P0814

# Copiah County Courier

NEWSPAPER ADVERTISING — PRINTING — OFFICE SUPPLIES — GRAPHIC DESIGN  
P.O. Drawer 351 • 103 S. Ragsdale Ave. • Hazlehurst, MS 39083 • 601-894-3141 • fax 601-894-3144

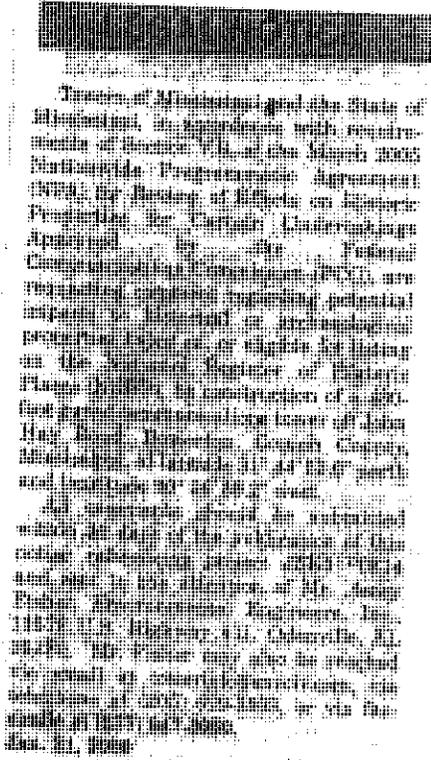
## PROOF OF PUBLICATION

ENVIRONMENTAL ENGINEERS

STATE OF MISSISSIPPI  
COUNTY OF COPIAH

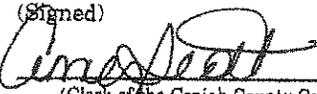
JAN 24 2009  
RECEIVED

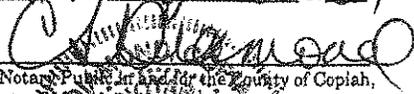
Personally came to me, the under-  
signed, authority in and for COPIAH  
COUNTY, Mississippi the CLERK of  
the COPIAH COUNTY COURIER, a  
newspaper published in the City of  
Hazlehurst, Copiah County, in said  
state, who, being duly sworn, depos-  
es and says that the COPIAH  
COUNTY COURIER is a newspaper  
as defined and prescribed in Senate  
Bill No. 203 enacted in the regular  
session of the Mississippi  
Legislature of 1948, amended  
Section 1858, of the Mississippi Code  
of 1942, and that the publication of a  
notice, of which the annexed is a  
true copy appeared in the issues of  
said newspaper as follows:



DATE: 1-21-09  
DATE: \_\_\_\_\_  
DATE: \_\_\_\_\_  
DATE: \_\_\_\_\_  
DATE: \_\_\_\_\_

Number of Words 143  
Published 1 times  
Printer's fee \$ 17.16  
Proof Fee \$ 3.00  
TOTAL \$ 20.16

(Signed)  
  
\_\_\_\_\_  
(Clerk of the Copiah County Courier)

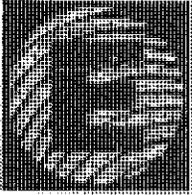
SWORN TO and subscribed before me, this  
21 day of Jan 2009  
  
\_\_\_\_\_  
A Notary Public in and for the County of Copiah,  
State of Mississippi.



**Attachment 6. Additional Consulting Parties**

The Copiah County Historical and Genealogical Society was contacted via letter dated January 16, 2009 for comment regarding potential impacts to historical or cultural sites by the proposed action.

Applicant's Name: Towers of Mississippi/State of Mississippi  
Project Name: MSWIN 20103 C  
Project Number: JSE01P0814



**ENVIRONMENTAL ENGINEERS, INC.**

**11578 US Highway 411, Odenville, Alabama 35120**

*Environmental and Geological Consultants*

January 16, 2009

Copiah County Historical and Genealogical Society  
P O Box 111  
Crystal Springs, MS 39059

Subject:  
**Proposed MSWIN 20103 C Wireless Communications Tower**  
**Bowertown, Copiah County, Mississippi**  
Environmental Engineers, Inc. Project No.: JSE01P0814

To Whom It May Concern:

Pursuant to the requirements of the March 2005 Nationwide Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings Approved by the Federal Communications Commission (NPA) we are requesting comment on behalf of Towers of Mississippi and the State of Mississippi regarding impact to historical or cultural sites listed on, or eligible for listing on the National Register of Historic Places (NRHP) by construction of a wireless communications tower in Bowertown, Copiah County, Mississippi.

The site is depicted on the United States Geological Survey 7.5-minute Topographic Quadrangle "Midway, Mississippi," dated 1972. The site is located in the northeast  $\frac{1}{4}$  of the southeast  $\frac{1}{4}$  of Section 17, Township 9 North, Range 6 East, Copiah County, Mississippi, at Latitude  $31^{\circ}44'53.612''$  north and  $90^{\circ}36'59.242''$  west (Figure 1). The site consists of a proposed 100-foot by 100-foot communications tower compound with associated guy anchor easements, and a proposed access road. Proposed activities consist of construction of a 430-foot guyed communications tower, enclosing the compound in a fence, placement of support equipment within the compound, and covering the compound and access road with gravel.

Environmental Engineers, Inc. appreciates the opportunity to provide this information. Please reference the Environmental Engineers, Inc. project number (JSE01P0814) in correspondence regarding this site. Please provide comment within thirty days of the date of this letter. Thank you for your time and assistance and we look forward to your response. Please call me at (205) 629-3868 or email me at [towerinfo@envciv.com](mailto:towerinfo@envciv.com) if you have any questions or comments. You can also send a response to us via facsimile at (877) 847-3060.

Sincerely,

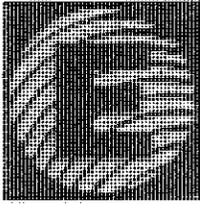
ENVIRONMENTAL ENGINEERS, INC.

Angela Bartram  
Staff Engineer

Attachments: Site Location Map

Phone: (205) 629-3868 • Fax: (877) 847-3060

## **Appendix H**



**ENVIRONMENTAL ENGINEERS, INC.**

**11578 US Highway 411, Odenville, Alabama 35120**

*Environmental and Geological Consultants*

January 27, 2009

Mr. Jim Woodrick  
Mississippi Department of Archives and History  
Charlotte Capers Archives and History Building  
100 South State St.  
Jackson, MS 39201

Subject:  
**Section 106 Review**  
**Proposed MSWIN 20103C Telecommunications Tower**  
**Bowertown, Copiah County, Mississippi**  
Environmental Engineers, Inc. Project No.: JSE01P0814

Dear Mr. Woodrick:

Environmental Engineers, Inc. is requesting a Section 106 review, on behalf of Towers of Mississippi and the State of Mississippi for the above referenced site. Enclosed you will find a copy of the completed FCC Form 620 for the project site, including all attachments.

Environmental Engineers, Inc. appreciates the opportunity to provide this information. Please reference the Environmental Engineers, Inc. project number (JSE01P0814) in correspondence regarding this site. If you have any questions or need additional information, please contact me at (205) 629-3868.

Sincerely,

ENVIRONMENTAL ENGINEERS, INC.

Henry A. Fisher, P.E.  
Principal Engineer

Enc. FCC Form 620

Phone: (205) 629-3868 • Fax: (877) 847-3060

From: Origin ID: CZCA (205) 629-3868  
HENRY FISHER  
ENVIRONMENTAL ENGINEERS, INC  
11578 U.S. Highway 411



Odenville, AL 35120

Ship Date: 27JAN09  
ActWgt: 1.0 LB  
CAD: 4760346/NET9011  
Account#: S \*\*\*\*\*

Delivery Address Bar Code



Ref # JSEP0813-817,903  
Invoice #  
PO # 814  
Dept #

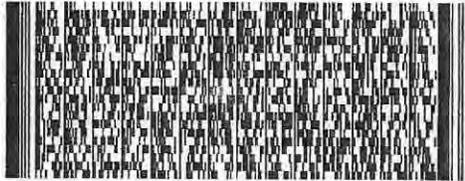
SHIP TO: (601) 359-6940 BILL SENDER

Mr. Jim Woodrick  
MS Dept of Archives & History  
200 NORTH ST

JACKSON, MS 39201

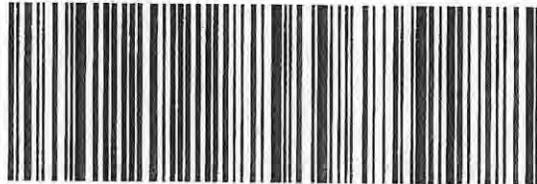
TRK# 7972 8664 3594  
0201

FRI - 30JAN A2  
EXPRESS SAVER  
RES



SA JANA

39201  
MS-US  
MEM



**After printing this label:**

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

**Warning:** Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on [fedex.com](http://fedex.com). FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

**Cheryl Johnson**

**From:** TrackingUpdates@fedex.com  
**Sent:** Friday, January 30, 2009 2:36 PM  
**To:** cjohnson@envciv.com  
**Subject:** FedEx Shipment 797286643594 Delivered

This tracking update has been requested by:

Company Name: ENVIRONMENTAL ENGINEERS, INC  
 Name: HENRY FISHER  
 E-mail: cjohnson@envciv.com

Our records indicate that the following shipment has been delivered:

Reference: JSEP0813-817,903  
 Ship (P/U) date: Jan 27, 2009  
 Delivery date: Jan 30, 2009 2:18 PM  
 Sign for by: J.WOODRICK  
 Delivered to: Mailroom  
 Service type: FedEx Express Saver  
 Packaging type: FedEx Envelope  
 Number of pieces: 1  
 Weight: 3.00 lb.  
 Special handling/Services: Residential Delivery  
 Deliver Weekday

Tracking number: 797286643594

Shipper Information	Recipient Information
HENRY FISHER	Mr. Jim Woodrick
ENVIRONMENTAL ENGINEERS, INC	MS Dept of Archives & History
11578 U.S. Highway 411	200 NORTH ST
Odenville	JACKSON
AL	MS
US	US
35120	39201

Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at approximately 2:35 PM CST on 01/30/2009.

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To track the latest status of your shipment, click on the tracking number above, or visit us at [fedex.com](http://fedex.com).

This tracking update has been sent to you by FedEx on the behalf of the Requestor noted above. FedEx does not validate the authenticity of the requestor and does not validate, guarantee or warrant the authenticity of the request, the requestor's message, or the accuracy of this tracking update. For tracking results and fedex.com's terms of use, go to [fedex.com](http://fedex.com).

Thank you for your business.

2/2/2009



HISTORIC PRESERVATION  
Ken P'Pool, director • Jim Woodrick, acting director  
PO Box 571, Jackson, MS 39205-0571  
601-576-6940 • Fax 601-576-6955  
mdah.state.ms.us

February 5, 2009

Henry A. Fisher, P.E.  
Environmental Engineers, Inc.  
11578 US Highway 411  
Odenville, Alabama 35120

ENVIRONMENTAL ENGINEERS

FEB 11 2009

RECEIVED

RE: Proposed MSWIN 20103 C Telecommunications Tower, Bowertown, (EE Project No. JSE01P0814), MDAH Project Log #02-003-09, Copiah County

Dear Henry:

We have reviewed your January 26, 2009, cultural resources assessment request and January 26, 2009, cultural resources survey report by Beth Ryba, Principal Investigator, received on February 2, 2009, for the above referenced undertaking, pursuant to our responsibilities under Section 106 of the National Historic Preservation Act and 36 CFR Part 800. After reviewing the information provided, we concur that no cultural resources listed in or eligible for listing in the National Register of Historic Places will be directly or visually affected. Therefore, we have no reservations with the project.

There remains the possibility that unrecorded cultural resources may be encountered during the project. Should this occur, we would appreciate your contacting this office immediately in order that we may offer appropriate comments under 36 CFR 800.13.

Please provide a copy of this letter to Ms. Ryba. If you need further information, please let me know.

Sincerely,

  
Jim Woodrick  
Review and Compliance Officer

FOR: H.T. Holmes  
State Historic Preservation Officer

# Appendix I

## Henry Fisher

---

**From:** Henry Fisher [hfisher@envciv.com]  
**Sent:** Tuesday, January 27, 2009 6:44 AM  
**To:** 'Caren Johnson'  
**Subject:** Towers of Mississippi - State of Mississippi MSWIN 20103 C Communications Tower TCNS 48291  
**Attachments:** FCC Form 620 MSWIN 20103 C Communications Tower TCNS 48291.pdf

January 27, 2009

Mr. Terry Cole  
Choctaw Nation of Oklahoma

Subject:  
**TCNS 48921**  
**Proposed MSWIN 20103 C Wireless Communications Tower**  
**Bowertown, Copiah County, Mississippi**  
**Environmental Engineers, Inc. Project No.: JSE01P0814**

Dear Mr. Cole:

I am requesting comment on behalf of Towers of Mississippi and the State of Mississippi regarding potential impacts to Native American religious or cultural sites by construction of a wireless communications tower in Copiah County, Mississippi. This project was also submitted through the FCC TCNS on January 15, 2009 (TCNS ID # 48291).

The site is depicted on the United States Geological Survey 7.5-minute Topographic Quadrangle "Midway, Mississippi," dated 1972. The site is located in the northeast  $\frac{1}{4}$  of the southeast  $\frac{1}{4}$  of Section 17, Township 9 North, Range 6 East, Copiah County, Mississippi, at Latitude 31°44'53.612" north and 90°36'59.242" west. The site consists of a proposed 100-foot by 100-foot communications tower compound with associated guy anchor easements, and a proposed access road. Proposed activities consist of construction of a 430-foot guyed communications tower, enclosing the compound in a fence, placement of support equipment within the compound, and covering the compound and access road with gravel. I have attached the FCC Form 620 prepared for this project by MRS Consultants, LLC and Environmental Engineers, Inc.

Environmental Engineers, Inc. appreciates the opportunity to provide this information. Please reference the Environmental Engineers, Inc. project number (JSE01P0814) in correspondence regarding this site. Thank you for your time and assistance and I look forward to your response. Please call us at (205) 629-3868 or email me at [hfisher@envciv.com](mailto:hfisher@envciv.com) if you have any questions or comments. You can also send a response to us via facsimile at (877) 847-3060.

Sincerely,

Henry A. Fisher  
Environmental Engineers, Inc.  
11578 US Highway 411  
Odenville, Alabama 35120  
Tel (205) 629-3868  
Fax (877) 847-3060

## Henry Fisher

---

**From:** Caren Johnson [cjohnson@choctawnation.com]  
**Sent:** Friday, February 27, 2009 2:23 PM  
**To:** 'Henry Fisher'  
**Subject:** RE: Towers of Mississippi - State of Mississippi MSWIN 20103 C Communications Tower TCNS 48291

February 27, 2009

Mr. Henry Fisher:

The Choctaw Nation of Oklahoma has reviewed cell tower(s) FCC # **48291** and based on the information provided to the best of our knowledge it will have no adverse effect on any historic properties in the project's area of potential effect. However, should construction expose buried archaeological or building materials such as chipped stone, tools, pottery, bone, historic crockery, glass or metal items, or should it uncover evidence of buried historic building materials such as rock foundations, brick, or hand poured concrete, this office should be contacted immediately @ 1-800-522-6170 ext. 2137.

Sincerely,

**Caren A. Johnson,**  
**Administrative Assistant**  
**Choctaw Nation of Oklahoma**  
**P. O. Box 1210, 16th & Locust**  
**Durant, OK 74702-1210**  
**1-580-924-8280 Ext. 2133**  
**Fax 1-580-920-3181**

---

**From:** Henry Fisher [mailto:hfisher@envciv.com]  
**Sent:** Tuesday, January 27, 2009 6:44 AM  
**To:** 'Caren Johnson'  
**Subject:** Towers of Mississippi - State of Mississippi MSWIN 20103 C Communications Tower TCNS 48291

January 27, 2009

Mr. Terry Cole  
Choctaw Nation of Oklahoma

Subject:  
**TCNS 48921**  
**Proposed MSWIN 20103 C Wireless Communications Tower**  
**Bowertown, Covich County, Mississippi**  
**Environmental Engineers, Inc. Project No.: JSE01P0814**

Dear Mr. Cole:

I am requesting comment on behalf of Towers of Mississippi and the State of Mississippi regarding potential impacts to Native American religious or cultural sites by construction of a wireless communications tower in Covich County, Mississippi. This project was also submitted through the FCC TCNS on January 15, 2009 (TCNS ID # 48291).

The site is depicted on the United States Geological Survey 7.5-minute Topographic Quadrangle "Midway, Mississippi," dated 1972. The site is located in the northeast ¼ of the southeast ¼ of Section 17, Township 9 North, Range 6 East, Copiah County, Mississippi, at Latitude 31°44'53.612" north and 90°36'59.242" west. The site consists of a proposed 100-foot by 100-foot communications tower compound with associated guy anchor easements, and a proposed access road. Proposed activities consist of construction of a 430-foot guyed communications tower, enclosing the compound in a fence, placement of support equipment within the compound, and covering the compound and access road with gravel. I have attached the FCC Form 620 prepared for this project by MRS Consultants, LLC and Environmental Engineers, Inc.

Environmental Engineers, Inc. appreciates the opportunity to provide this information. Please reference the Environmental Engineers, Inc. project number (JSE01P0814) in correspondence regarding this site. Thank you for your time and assistance and I look forward to your response. Please call us at (205) 629-3868 or email me at [hfisher@envciv.com](mailto:hfisher@envciv.com) if you have any questions or comments. You can also send a response to us via facsimile at (877) 847-3060.

Sincerely,

Henry A. Fisher  
Environmental Engineers, Inc.  
11578 US Highway 411  
Odenville, Alabama 35120  
Tel (205) 629-3868  
Fax (877) 847-3060

## Henry Fisher

---

**From:** Henry Fisher [hfisher@envciv.com]  
**Sent:** Tuesday, January 27, 2009 6:47 AM  
**To:** 'choctawhp@gmail.com'; 'Carleton, Ken'  
**Subject:** Towers of Mississippi - State of Mississippi MSWIN 20103 C Communications Tower TCNS 48291  
**Attachments:** FCC Form 620 MSWIN 20103 C Communications Tower TCNS 48291.pdf

January 27, 2009

Mr. Ken Carleton  
Mississippi Band of Choctaw Indians

Subject:  
**TCNS 48921**  
**Proposed MSWIN 20103 C Wireless Communications Tower**  
**Bowertown, Copiah County, Mississippi**  
**Environmental Engineers, Inc. Project No.: JSE01P0814**

Dear Mr. Carleton:

I am requesting comment on behalf of Towers of Mississippi and the State of Mississippi regarding potential impacts to Native American religious or cultural sites by construction of a wireless communications tower in Copiah County, Mississippi. This project was also submitted through the FCC TCNS on January 15, 2009 (TCNS ID # 48291).

The site is depicted on the United States Geological Survey 7.5-minute Topographic Quadrangle "Midway, Mississippi," dated 1972. The site is located in the northeast  $\frac{1}{4}$  of the southeast  $\frac{1}{4}$  of Section 17, Township 9 North, Range 6 East, Copiah County, Mississippi, at Latitude 31°44'53.612" north and 90°36'59.242" west. The site consists of a proposed 100-foot by 100-foot communications tower compound with associated guy anchor easements, and a proposed access road. Proposed activities consist of construction of a 430-foot guyed communications tower, enclosing the compound in a fence, placement of support equipment within the compound, and covering the compound and access road with gravel. I have attached the FCC Form 620 prepared for this project by MRS Consultants, LLC and Environmental Engineers, Inc.

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Sincerely,

Henry A. Fisher  
Environmental Engineers, Inc.  
11578 US Highway 411  
Odenville, Alabama 35120  
Tel (205) 629-3868  
Fax (877) 847-3060

## Henry Fisher

---

**From:** Henry Fisher [hfisher@envciv.com]  
**Sent:** Tuesday, January 27, 2009 6:48 AM  
**To:** 'Dawn Hutchins'  
**Subject:** Towers of Mississippi - State of Mississippi MSWIN 20103 C Communications Tower TCNS 48291  
**Attachments:** FCC Form 620 MSWIN 20103 C Communications Tower TCNS 48291.pdf

January 27, 2009

Ms. Dawn Hutchins  
Seminole Tribe of Florida

**Subject:**  
**TCNS 48921**  
**Proposed MSWIN 20103 C Wireless Communications Tower**  
**Bowertown, Copiah County, Mississippi**  
**Environmental Engineers, Inc. Project No.: JSE01P0814**

Dear Ms. Hutchins:

I am requesting comment on behalf of Towers of Mississippi and the State of Mississippi regarding potential impacts to Native American religious or cultural sites by construction of a wireless communications tower in Copiah County, Mississippi. This project was also submitted through the FCC TCNS on January 15, 2009 (TCNS ID # 48291).

The site is depicted on the United States Geological Survey 7.5-minute Topographic Quadrangle "Midway, Mississippi," dated 1972. The site is located in the northeast  $\frac{1}{4}$  of the southeast  $\frac{1}{4}$  of Section 17, Township 9 North, Range 6 East, Copiah County, Mississippi, at Latitude 31°44'53.612" north and 90°36'59.242" west. The site consists of a proposed 100-foot by 100-foot communications tower compound with associated guy anchor easements, and a proposed access road. Proposed activities consist of construction of a 430-foot guyed communications tower, enclosing the compound in a fence, placement of support equipment within the compound, and covering the compound and access road with gravel. I have attached the FCC Form 620 prepared for this project by MRS Consultants, LLC and Environmental Engineers, Inc.

Environmental Engineers, Inc. appreciates the opportunity to provide this information. Please reference the Environmental Engineers, Inc. project number (JSE01P0814) in correspondence regarding this site. Thank you for your time and assistance and I look forward to your response. Please call us at (205) 629-3868 or email me at [hfisher@envciv.com](mailto:hfisher@envciv.com) if you have any questions or comments. You can also send a response to us via facsimile at (877) 847-3060.

Sincerely,

Henry A. Fisher  
Environmental Engineers, Inc.  
11578 US Highway 411  
Odenville, Alabama 35120  
Tel (205) 629-3868  
Fax (877) 847-3060

## Henry Fisher

---

**From:** towernotifyinfo@fcc.gov  
**Sent:** Tuesday, January 27, 2009 12:43 PM  
**To:** towerinfo@envciv.com  
**Cc:** towernotifyinfo@fcc.gov; dawnhutchins@semtribe.com  
**Subject:** Reply to Proposed Tower Structure (Notification ID #48291) - Email ID #2107890

Dear Henry A Fisher,

Thank you for using the Federal Communications Commission's (FCC) Tower Construction Notification System (TCNS). The purpose of this email is to inform you that an authorized user of the TCNS has replied to a proposed tower construction notification that you had submitted through the TCNS.

The following message has been sent to you from Compliance Review Supervisor Dawn P Hutchins of the Seminole Tribe of Florida in reference to Notification ID #48291:

To Whom It May Concern,

The Seminole Tribe of Florida Tribal Historic Preservation Office (STOF-THPO) has received your email correspondence concerning the aforementioned project. The STOF-THPO concurs with your findings of "no historic properties". However, the STOF-THPO would like to be informed should any archaeological and/or historic resources be discovered inadvertently during the construction process. We thank you for the opportunity to review the information that has been sent to date regarding this project.

We look forward to working with you in the future.

Sincerely,  
Dawn Hutchins  
Compliance Review Supervisor  
[dawnhutchins@semtribe.com](mailto:dawnhutchins@semtribe.com)

For your convenience, the information you submitted for this notification is detailed below.

Notification Received: 01/15/2009  
Notification ID: 48291  
Tower Owner Individual or Entity Name: Towers of Mississippi/State of Mississippi  
Consultant Name: Henry A Henry  
Street Address: 11578 U.S. Highway 411  
City: Odenville  
State: ALABAMA  
Zip Code: 35120  
Phone: 205-629-3868  
Email: [towerinfo@envciv.com](mailto:towerinfo@envciv.com)

Structure Type: GTOWER - Guyed Tower  
Latitude: 31 deg 44 min 53.6 sec N  
Longitude: 90 deg 36 min 59.2 sec W  
Location Description: off John Hay Road  
City: Bowerton

State: MISSISSIPPI

County: COPIAH

Ground Elevation: 149.3 meters

Support Structure: 131.1 meters above ground level

Overall Structure: 131.1 meters above ground level

Overall Height AMSL: 280.4 meters above mean sea level

**Henry Fisher**

**From:** Earl Barbry, Jr. [earlji@tunica.org]  
**Sent:** Tuesday, May 03, 2005 5:51 PM  
**To:** Henry Fisher  
**Cc:** Niki Jeter  
**Subject:** Re: HELP! - I am stuck in FCC NPA!

Mr. Fisher,

Sorry about the delay. I would like to be notified of the cell tower requests, etc. by email. Also, should no comments be received from my department within the 30 day comment period, proceeding with the project can occur. I stand the same as the other Tribes regarding immediate work stoppage and contacting this office should inadvertent discovery occur.

Thank you for taking the time to contact me and getting my input into these matters. Let me know if this response is sufficient or if you need a letter on Tribal stationery mailed to you.

Should you need immediate assistance, and I am out of the office, speak to my Administrative Assistant, Ms. Amber (Niki) Jeter - dial the number below and hit 0 to speak to her.

Many thanks,

Earl J. Barbry, Jr., THPO  
Tunica-Biloxi Tribe of Louisiana  
318-253-0213 ext. 6851

## Henry Fisher

---

**From:** Henry Fisher [hfisher@envciv.com]  
**Sent:** Tuesday, January 27, 2009 6:40 AM  
**To:** 'earlii@tunica.org'  
**Subject:** Towers of Mississippi - State of Mississippi MSWIN 20103 C Communications Tower TCNS 48291

January 27, 2009

Mr. Earl Barbry  
Tunica-Biloxi Indians of Louisiana

Subject:  
**TCNS 48921**  
**Proposed MSWIN 20103 C Wireless Communications Tower**  
**Bowertown, Copiah County, Mississippi**  
**Environmental Engineers, Inc. Project No.: JSE01P0814**

Dear Mr. Barbry:

I am requesting comment on behalf of Towers of Mississippi and the State of Mississippi regarding potential impacts to Native American religious or cultural sites by construction of a wireless communications tower in Copiah County, Mississippi. This project was also submitted through the FCC TCNS on January 15, 2009 (TCNS ID # 48291).

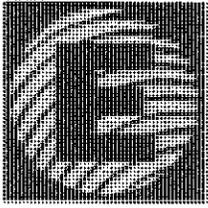
The site is depicted on the United States Geological Survey 7.5-minute Topographic Quadrangle "Midway, Mississippi," dated 1972. The site is located in the northeast ¼ of the southeast ¼ of Section 17, Township 9 North, Range 6 East, Copiah County, Mississippi, at Latitude 31°44'53.612" north and 90°36'59.242" west. The site consists of a proposed 100-foot by 100-foot communications tower compound with associated guy anchor easements, and a proposed access road. Proposed activities consist of construction of a 430-foot guyed communications tower, enclosing the compound in a fence, placement of support equipment within the compound, and covering the compound and access road with gravel.

Environmental Engineers, Inc. appreciates the opportunity to provide this information. Please reference the Environmental Engineers, Inc. project number (JSE01P0814) in correspondence regarding this site. Thank you for your time and assistance. Based on the electronic mail that you sent to our office on May 3, 2005 it is my understanding that we may assume that the Tunica-Biloxi Indians of Louisiana concurs with the proposed project if we have not received a comment from your office within 30 days of submittal of project information to your office via electronic mail. Please call us at (205) 629-3868 or email me at [hfisher@envciv.com](mailto:hfisher@envciv.com) if you have any questions or comments. You can also send a response to us via facsimile at (877) 847-3060.

Sincerely,

Henry A. Fisher  
Environmental Engineers, Inc.  
11578 US Highway 411  
Odenville, Alabama 35120  
Tel (205) 629-3868  
Fax (877) 847-3060

## **Appendix J**



**ENVIRONMENTAL ENGINEERS, INC.**

**11578 US Highway 411, Odenville, Alabama 35120**

*Environmental and Geological Consultants*

January 16, 2009

Copiah County Board of Supervisors  
P O Box 551  
Hazlehurst, MS 39083

Subject:

**Proposed MSWIN 20103 C Wireless Communications Tower**  
**Bowertown, Copiah County, Mississippi**  
Environmental Engineers, Inc. Project No.: JSE01P0814

To Whom It May Concern:

Pursuant to the requirements of the March 2005 Nationwide Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings Approved by the Federal Communications Commission (NPA) we are requesting comment on behalf of Towers of Mississippi and the State of Mississippi regarding impact to historical or cultural sites listed on, or eligible for listing on the National Register of Historic Places (NRHP) by construction of a wireless communications tower in Bowertown, Copiah County, Mississippi.

The site is depicted on the United States Geological Survey 7.5-minute Topographic Quadrangle "Midway, Mississippi," dated 1972. The site is located in the northeast ¼ of the southeast ¼ of Section 17, Township 9 North, Range 6 East, Copiah County, Mississippi, at Latitude 31°44'53.612" north and 90°36'59.242" west (Figure 1). The site consists of a proposed 100-foot by 100-foot communications tower compound with associated guy anchor easements, and a proposed access road. Proposed activities consist of construction of a 430-foot guyed communications tower, enclosing the compound in a fence, placement of support equipment within the compound, and covering the compound and access road with gravel.

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Sincerely,

ENVIRONMENTAL ENGINEERS, INC.

  
Angela Burtram  
Staff Engineer

Attachments: Site Location Map

**Phone: (205) 629-3868 • Fax: (877) 847-3060**

7007 0220 0003 4719 7641

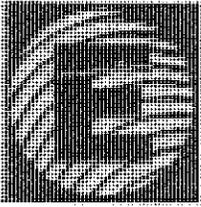
U.S. Postal Service  
**CERTIFIED MAIL RECEIPT**  
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at [www.usps.com](http://www.usps.com)

**OFFICIAL USE**

Postage	\$	1/19/09 Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$ 5.32	JSEB 1/19/09
Sent to: Copiah County Bd of Supervisors		
Street, Apt. No., or PO Box No.		
City, State, ZIP+4		

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p><i>Mary K. Harris</i></p> <p>B. Received by (Printed Name) <input type="checkbox"/> Date of Delivery</p> <p><i>Mary K. Harris 1/22/09</i></p> <p>C. Is delivery address different from item 1? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If YES, enter delivery address below:</p>
<p>1. Article Addressed to:</p> <p>Copiah County Bd of Supervisors P.O. Box 551 Hazelhurst, MS 39083</p>	<p>3. Service Type</p> <p><input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail</p> <p><input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p>
<p>2. Article Number (Transfer from service label)</p> <p>7007 0220 0003 4719 7641</p>	<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>



**ENVIRONMENTAL ENGINEERS, INC.**

**11578 US Highway 411, Odenville, Alabama 35120**

*Environmental and Geological Consultants*

January 16, 2009

Copiah County Historical and Genealogical Society  
P O Box 111  
Crystal Springs, MS 39059

Subject:

**Proposed MSWIN 20103 C Wireless Communications Tower  
Bowertown, Copiah County, Mississippi**  
Environmental Engineers, Inc. Project No.: JSE01P0814

To Whom It May Concern:

Pursuant to the requirements of the March 2005 Nationwide Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings Approved by the Federal Communications Commission (NPA) we are requesting comment on behalf of Towers of Mississippi and the State of Mississippi regarding impact to historical or cultural sites listed on, or eligible for listing on the National Register of Historic Places (NRHP) by construction of a wireless communications tower in Bowertown, Copiah County, Mississippi.

The site is depicted on the United States Geological Survey 7.5-minute Topographic Quadrangle "Midway, Mississippi," dated 1972. The site is located in the northeast ¼ of the southeast ¼ of Section 17, Township 9 North, Range 6 East, Copiah County, Mississippi, at Latitude 31°44'53.612" north and 90°36'59.242" west (Figure 1). The site consists of a proposed 100-foot by 100-foot communications tower compound with associated guy anchor easements, and a proposed access road. Proposed activities consist of construction of a 430-foot guyed communications tower, enclosing the compound in a fence, placement of support equipment within the compound, and covering the compound and access road with gravel.

Environmental Engineers, Inc. appreciates the opportunity to provide this information. Please reference the Environmental Engineers, Inc. project number (JSE01P0814) in correspondence regarding this site. Please provide comment within thirty days of the date of this letter. Thank you for your time and assistance and we look forward to your response. Please call me at (205) 629-3868 or email me at [towerinfo@envciv.com](mailto:towerinfo@envciv.com) if you have any questions or comments. You can also send a response to us via facsimile at (877) 847-3060.

Sincerely,

ENVIRONMENTAL ENGINEERS, INC.

Angela Burttram  
Staff Engineer

Attachments: Site Location Map

**Phone: (205) 629-3868 • Fax: (877) 847-3060**

7007 0220 0003 4720 8880

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 Copiah County Historical + Gen  
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 City, State, ZIP+4

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:  
 Copiah County Historical +  
 Genealogical Society  
 P.O. Box 111  
 Crystal Springs, MS 39059

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
 X *Bryan Nelson*  Agent  Addressee

B. Received by (Printed Name)  
*Bryan Nelson*

C. Date of Delivery  
 1/28/09

D. Is delivery address different from item 1?  Yes  No  
 If YES, enter delivery address below:

3. Service Type  
 Certified Mail  Express Mail  
 Registered  Return Receipt for Merchandise  
 Insured Mail  C.O.D.

4. Restricted Delivery? (Extra Fee)  Yes

2. Article Number (Transfer from service label) 7007 0220 0003 4720 8880

## Henry Fisher

---

**From:** Mindy Milam [mmilam@envciv.com]  
**Sent:** Tuesday, February 10, 2009 4:41 PM  
**To:** lmnelson10@aol.com  
**Cc:** 'Henry Fisher'  
**Subject:** RE: JSE01P0814

Ms. Nelson,

The site is located off of Highway 28 / John Hay Road approximately 7.5 miles east of the Covich / Jefferson County Line and approximately 3 miles west of Bowerton. I do hope this is helpful. Please let us know if you need additional information.

Mindy Milam  
Staff Wildlife Biologist  
Environmental Engineers, Inc  
11578 U.S. Highway 411  
Odenville, AL 35120  
office: 205-629-3868  
fax: 877-847-3060

---

**From:** lmnelson10@aol.com [mailto:lmnelson10@aol.com]  
**Sent:** Tuesday, February 10, 2009 3:03 PM  
**To:** towerinfo@envciv.com  
**Subject:** JSE01P0814

I received information regarding a proposed tower to be built in Covich County at Bowertown. Bowertown is a historic town and no longer in existence. Although coordinates were included in your letter, we would like more specific information as to where the tower will be located. Can you supply the name of the road which is closest to the proposed site? I can search properties by owners names, etc.if that will help me. I just need something to better determine where the tower will be so I can make sure no historic properties will be adversely affected.

Tricia Nelson  
President/Preservation Consultant  
Covich Co. Historical & Genealogical Society

---

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# Copiah County Courier

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## PROOF OF PUBLICATION

ENVIRONMENTAL ENGINEERS

STATE OF MISSISSIPPI  
COUNTY OF COPIAH

JAN 24 2009

RECEIVED

Personally came to me, the under-  
signed, authority in and for COPIAH  
COUNTY, Mississippi the CLERK of  
the COPIAH COUNTY COURIER, a  
newspaper published in the City of  
Hazlehurst, Copiah County, in said  
state, who, being duly sworn, depos-  
es and says that the COPIAH  
COUNTY COURIER is a newspaper  
as defined and prescribed in Senate  
Bill No. 203 enacted in the regular  
session of the Mississippi  
Legislature of 1948, amended  
Section 1858, of the Mississippi Code  
of 1942, and that the publication of a  
notice, of which the annexed is a  
true copy appeared in the issues of  
said newspaper as follows:

DATE: 1-21-09

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

Number of Words 193

Published 1 times

Printer's fee \$ 17.16

Proof Fee \$ 3.00

TOTAL \$ 20.16

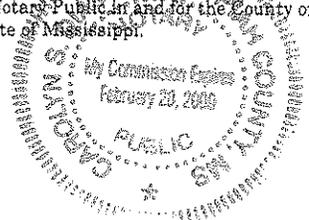
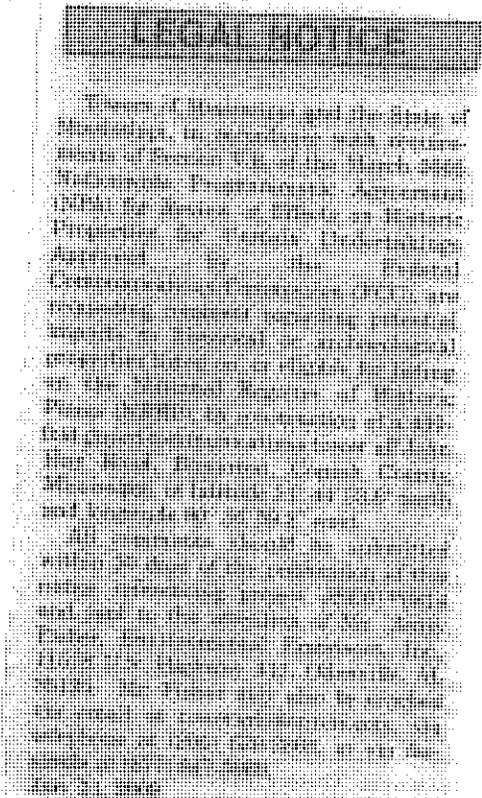
(Signed)

  
\_\_\_\_\_  
(Clerk of the Copiah County Courier)

SWORN TO and subscribed before me, this

24 day of Jan 2009

  
\_\_\_\_\_  
A Notary Public in and for the County of Copiah,  
State of Mississippi.



# Appendix K



## DEPARTMENT OF THE ARMY

VICKSBURG DISTRICT, CORPS OF ENGINEERS

4155 CLAY STREET

VICKSBURG, MISSISSIPPI 39183-3435

REPLY TO  
ATTENTION OF:

November 19, 2009

ENVIRONMENTAL ENGINEERS

NOV 23 2009

RECEIVED

Operations Division

SUBJECT: Towers of Mississippi, Construction of MSWIN 20103 C  
Communications Tower, Bowerton, Copiah County, Mississippi;  
Environmental Engineers, Incorporated, Project Number JSE01P0814

Mr. Taylor Robinson  
Towers of Mississippi  
31560 Blakely Way  
Spanish Fort, Alabama 36532

Dear Mr. Robinson:

This letter is in response to the November 3, 2009, letter from Mr. Henry A. Fisher of Environmental Engineers, Incorporated, concerning possible regulatory requirements for the proposed plans for the construction of MSWIN 20103 C communications tower and access road located near Bowerton, in Copiah County, Mississippi.

Based upon the information provided (enclosure 1) and the information available to this office, it appears that a Department of the Army permit pursuant to Section 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water Act will not be required for the proposed work. In the event that project plans are changed, or if you anticipate any additional construction, please contact this office for a reevaluation of permit requirements and refer to Identification No. MVK-2009-1511 when submitting the information.

This determination of Department of the Army regulatory requirements was based upon a preliminary jurisdictional determination that there are no jurisdictional areas being impacted by the proposed work on the property subject to regulation pursuant to Section 10 of the Rivers and Harbors Act of 1899 and/or to Section 404 of the Clean Water Act. An appeals form for this preliminary jurisdictional determination has been enclosed for your review (enclosure 2).

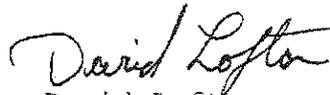
This determination of Department of the Army regulatory requirements does not convey any property rights, either in real estate or material or any exclusive privileges, and does not authorize any injury to property or invasion of rights or local laws or regulations, or obviate the requirement to obtain State or local assent required by law for the activity discussed herein.

If we may be of any further assistance in this matter, please contact Mr. Chad Phillips of this office, telephone (601) 631-5146, fax (601) 631-5459, or e-mail address: [regulatory@usace.army.mil](mailto:regulatory@usace.army.mil).

The Vicksburg District Regulatory Branch is committed to providing quality and timely service to our customers. In an effort to improve customer service, please take a moment to complete the Customer Service Survey found on our web site at <http://per2.nwp.usace.army.mil/survey.html>. If it is more convenient for you, please complete and return the enclosed postage-paid post card (enclosure 3).

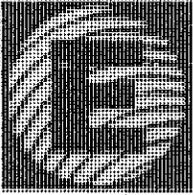
I am forwarding a copy of this letter to Mr. Henry A. Fisher, Environmental Engineers, Incorporated, 11578 U.S. Highway 411, Odenville, Alabama 35120.

Sincerely,



David Lofton  
Chief, Permit Section  
Regulatory Branch

Enclosures



**ENVIRONMENTAL ENGINEERS, INC.**

**11578 US Highway 411, Odenville, Alabama 35120**

*Environmental and Geological Consultants*

November 3, 2009

Mr. David Lofton, Section Chief  
U.S. Army Corps of Engineers, Vicksburg District  
Permitting Section  
Attention: CEMVK-OD-F  
4155 Clay Street  
Vicksburg, Mississippi 39183-3435

Subject:

**Request for Project Review**  
**Proposed MSWIN 20103 C Communications Tower**  
**Bowerton, Copiah County, Mississippi**  
Environmental Engineers, Inc. Project No.: JSE01P0814

Dear Mr. Lofton:

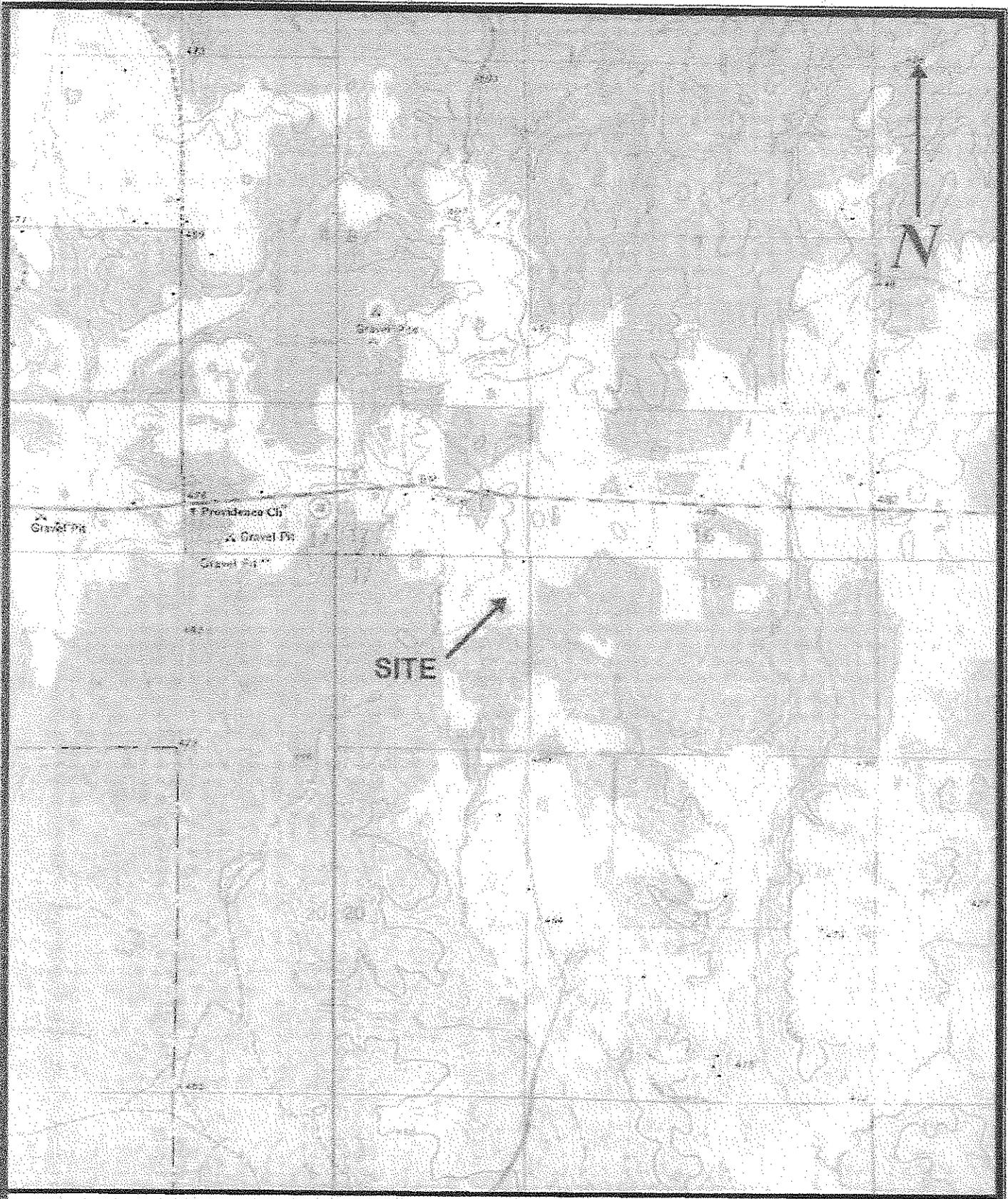
Environmental Engineers, Inc. is requesting comment on behalf of Towers of Mississippi, the State of Mississippi, and the Federal Emergency Management Agency (FEMA) regarding construction of a wireless communications tower in Copiah County, Mississippi. This project is being funded using a FEMA grant (2008-MS-MX-0001) and the State of Mississippi's expenditures at this site will include construction of a telecommunications facility, purchase and installation of 700 MHz RF equipment and microwave telecommunication backbone network, equipment shelter, network integration, acceptance testing, communication hardware optimization and system exercising and piloting of interoperability capabilities of the network.

The site is depicted on the United States Geological Survey 7.5-minute Topographic Quadrangle "Midway, Mississippi," dated 1972. The site is located in the northeast ¼ of the southeast ¼ of Section 17, Township 9 North, Range 6 East, Copiah County, Mississippi, at latitude 31°44'53.612" north and longitude 90°36'59.242" west. The site consists of a 100-foot by 100-foot lease area with three associated guy anchor easements and a proposed access road. The site is located off of John Hay Road in Bowerton, Mississippi. The proposed access road enters the site from the east. Proposed activities consist of construction of a 430-foot guyed communications tower, enclosing the compound in a fence, placement of support equipment within the compound, grading an access road, and covering the compound and access road with gravel. The proposed project is depicted on the Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Map (FIRM) "Panel 450 of 525, Copiah County, Mississippi and Incorporated Areas" effective date December 16, 2008, and is located in an area designated as Zone X (no shading) and is not located in a special flood hazard area. I have included a site location map, site photographs, and the portion of the 2007 aerial photograph depicting the site for your review.

**Phone: (205) 629-3868 • Fax: (877) 847-3060**

11-06-09P01:54 RCVD

MVK-2009-1511 *ajf*



**Environmental Engineers, Inc.**

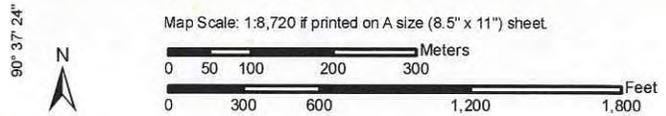
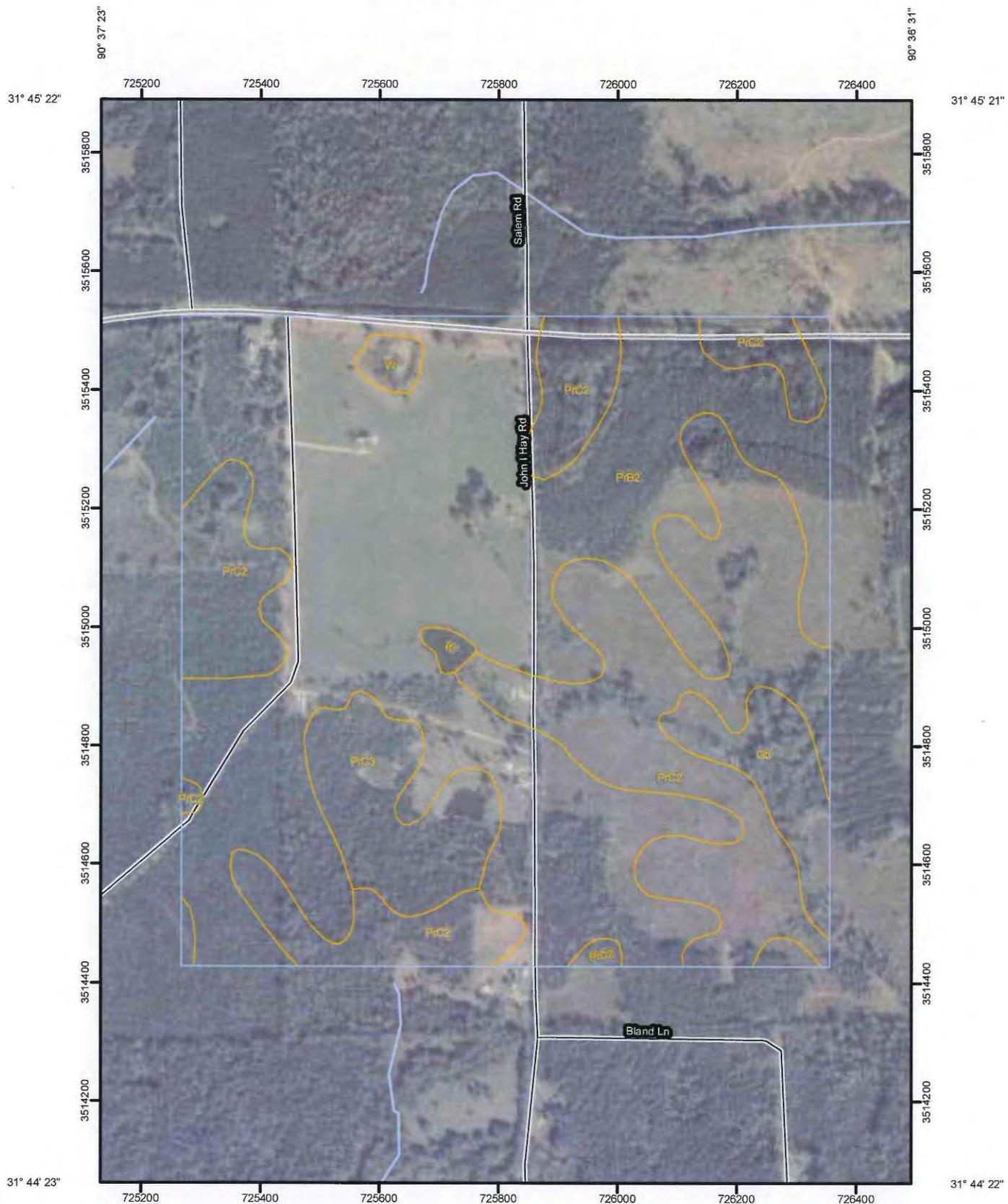
Subject:  
Proposed MSWIN 20103 C Communications Tower  
Bowertown, Copiah County, Mississippi  
Project No.: JSE01P0814

Figure 1  
Site Location Map  
Scale: 1" = 2000'



# Appendix L

Soil Map—Copiah County, Mississippi



## MAP LEGEND

-  Area of Interest (AOI)
-  Area of Interest (AOI)
-  Soils
-  Soil Map Units
- Special Point Features**
  -  Blowout
  -  Borrow Pit
  -  Clay Spot
  -  Closed Depression
  -  Gravel Pit
  -  Gravelly Spot
  -  Landfill
  -  Lava Flow
  -  Marsh or swamp
  -  Mine or Quarry
  -  Miscellaneous Water
  -  Perennial Water
  -  Rock Outcrop
  -  Saline Spot
  -  Sandy Spot
  -  Severely Eroded Spot
  -  Sinkhole
  -  Slide or Slip
  -  Sodic Spot
  -  Spoil Area
  -  Stony Spot
- Special Line Features**
  -  Gully
  -  Short Steep Slope
  -  Other
- Political Features**
  -  Cities
- Water Features**
  -  Oceans
  -  Streams and Canals
- Transportation**
  -  Rails
  -  Interstate Highways
  -  US Routes
  -  Major Roads
  -  Local Roads

## MAP INFORMATION

**Map Scale:** 1:8,720 if printed on A size (8.5" x 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:20,000. Please rely on the bar scale on each map sheet for accurate map measurements.

**Source of Map:** Natural Resources Conservation Service  
**Web Soil Survey URL:** <http://websoilsurvey.nrcs.usda.gov>  
**Coordinate System:** UTM Zone 15N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

**Soil Survey Area:** Copiah County, Mississippi  
**Survey Area Data:** Version 11, Dec 16, 2008  
**Date(s) aerial images were photographed:** 11/5/2004

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

Copiah County, Mississippi (MS029)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Gb	Gillsburg silt loam	11.0	3.7%
PrB2	Providence silt loam, 2 to 5 percent slopes, eroded	170.9	58.0%
PrC2	Providence silt loam, 5 to 8 percent slopes, eroded	91.2	31.0%
PrC3	Providence silt loam, 5 to 12 percent slopes, severely eroded	18.3	6.2%
W	Water	3.2	1.1%
<b>Totals for Area of Interest</b>		<b>294.8</b>	<b>100.0%</b>

## Copiah County, Mississippi

### PrB2—Providence silt loam, 2 to 5 percent slopes, eroded

#### Map Unit Setting

*Mean annual precipitation:* 60 to 75 inches  
*Mean annual air temperature:* 64 to 70 degrees F  
*Frost-free period:* 270 to 335 days

#### Map Unit Composition

*Providence and similar soils:* 90 percent

#### Description of Providence

##### Setting

*Landform position (two-dimensional):* Shoulder  
*Landform position (three-dimensional):* Side slope  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Silty loess over sandy marine deposits

##### Properties and qualities

*Slope:* 2 to 5 percent  
*Depth to restrictive feature:* 18 to 38 inches to fragipan  
*Drainage class:* Moderately well drained  
*Capacity of the most limiting layer to transmit water*  
*(Ksat):* Moderately high (0.20 to 0.60 in/hr)  
*Depth to water table:* About 12 to 24 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Available water capacity:* Low (about 5.3 inches)

##### Interpretive groups

*Land capability (nonirrigated):* 2e

##### Typical profile

*0 to 5 inches:* Silt loam  
*5 to 23 inches:* Silty clay loam  
*23 to 44 inches:* Silt loam  
*44 to 70 inches:* Clay loam

## Data Source Information

Soil Survey Area: Copiah County, Mississippi  
Survey Area Data: Version 11, Dec 16, 2008

## Copiah County, Mississippi

### PrC2—Providence silt loam, 5 to 8 percent slopes, eroded

#### Map Unit Setting

*Mean annual precipitation:* 60 to 75 inches  
*Mean annual air temperature:* 64 to 70 degrees F  
*Frost-free period:* 270 to 335 days

#### Map Unit Composition

*Providence and similar soils:* 90 percent  
*Minor components:* 2 percent

#### Description of Providence

##### Setting

*Landform position (two-dimensional):* Shoulder  
*Landform position (three-dimensional):* Side slope  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Silty loess over sandy marine deposits

##### Properties and qualities

*Slope:* 5 to 8 percent  
*Depth to restrictive feature:* 18 to 38 inches to fragipan  
*Drainage class:* Moderately well drained  
*Capacity of the most limiting layer to transmit water*  
*(Ksat):* Moderately high (0.20 to 0.60 in/hr)  
*Depth to water table:* About 12 to 24 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Available water capacity:* Low (about 5.3 inches)

##### Interpretive groups

*Land capability (nonirrigated):* 3e

##### Typical profile

*0 to 5 inches:* Silt loam  
*5 to 23 inches:* Silty clay loam  
*23 to 44 inches:* Silt loam  
*44 to 70 inches:* Clay loam

#### Minor Components

##### Unnamed hydric soils (134dr)

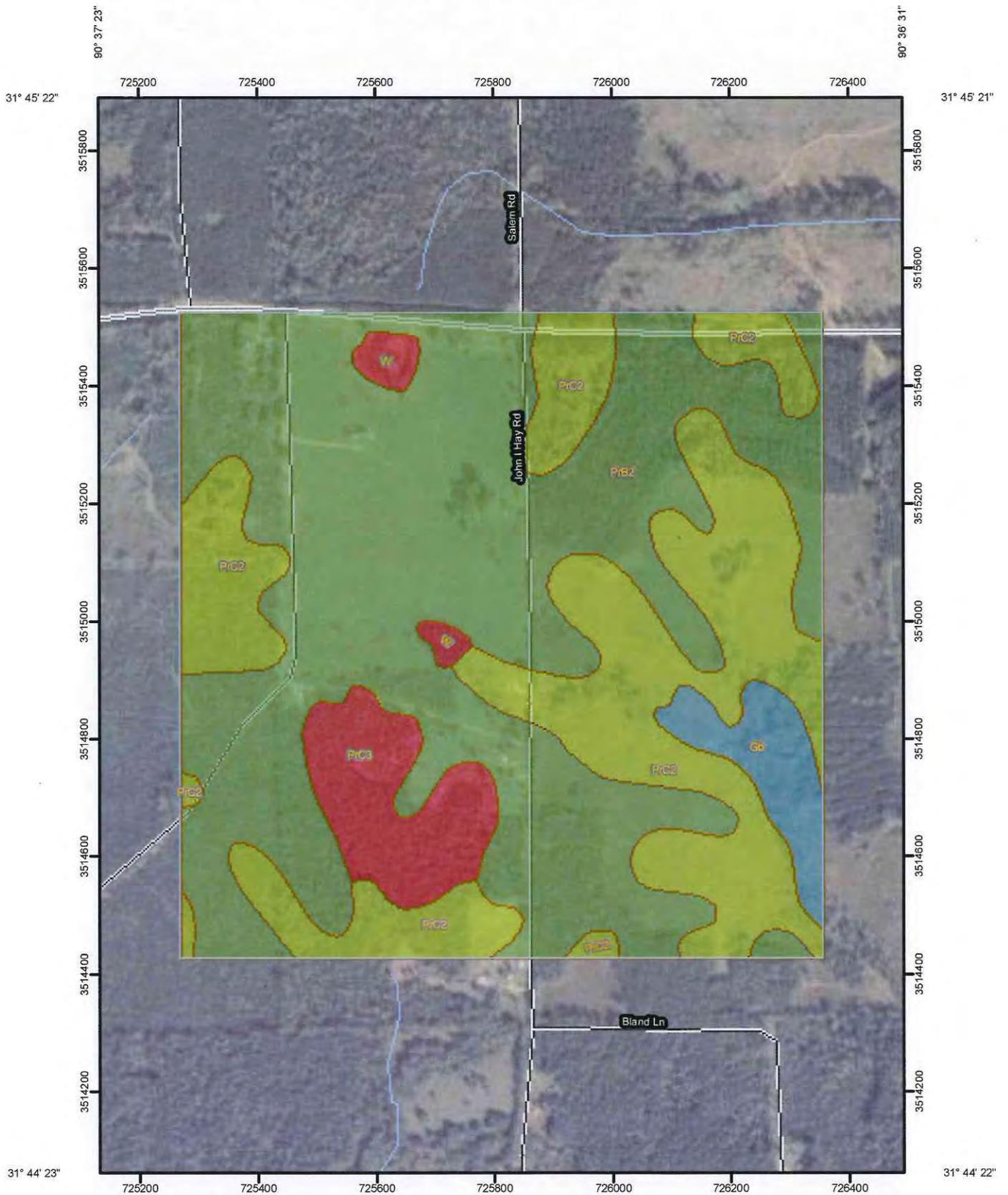
*Percent of map unit:* 2 percent  
*Landform:* Drainageways  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Linear

*Across-slope shape:* Linear

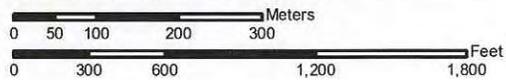
## **Data Source Information**

Soil Survey Area: Copiah County, Mississippi  
Survey Area Data: Version 11, Dec 16, 2008

Farmland Classification—Copiah County, Mississippi



Map Scale: 1:8,720 if printed on A size (8.5" x 11") sheet.



## MAP INFORMATION

Map Scale: 1:8,720 if printed on A size (8.5" x 11") sheet.  
 The soil surveys that comprise your AOI were mapped at 1:20,000.  
 Please rely on the bar scale on each map sheet for accurate map measurements.  
 Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>  
 Coordinate System: UTM Zone 15N NAD83  
 This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.  
 Soil Survey Area: Copiah County, Mississippi  
 Survey Area Data: Version 11, Dec 16, 2008  
 Date(s) aerial images were photographed: 11/5/2004  
 The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## MAP LEGEND

 Area of Interest (AOI)	 US Routes
 Area of Interest (AOI)	 Major Roads
 Soils	 Local Roads
 Soil Map Units	
<b>Soil Ratings</b>	
 Not prime farmland	
 All areas are prime farmland	
 Prime farmland if drained	
 Prime farmland if protected from flooding or not frequently flooded during the growing season	
 Prime farmland if irrigated	
 Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season	
 Prime farmland if irrigated and drained	
 Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season	
 Prime farmland if completely removing the root inhibiting soil layer	
 Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60	
 Prime farmland if irrigated and reclaimed of excess salts and sodium	
 Farmland of statewide importance	
 Farmland of local importance	
 Farmland of unique importance	
 Not rated or not available	
<b>Political Features</b>	
 Cities	
<b>Water Features</b>	
 Oceans	
 Streams and Canals	
<b>Transportation</b>	
 Rails	
 Interstate Highways	

## Farmland Classification

Farmland Classification— Summary by Map Unit — Copiah County, Mississippi				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Gb	Gillsburg silt loam	Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season	11.0	3.7%
PrB2	Providence silt loam, 2 to 5 percent slopes, eroded	All areas are prime farmland	170.9	58.0%
PrC2	Providence silt loam, 5 to 8 percent slopes, eroded	Farmland of statewide importance	91.2	31.0%
PrC3	Providence silt loam, 5 to 12 percent slopes, severely eroded	Not prime farmland	18.3	6.2%
W	Water	Not prime farmland	3.2	1.1%
<b>Totals for Area of Interest</b>			<b>294.8</b>	<b>100.0%</b>

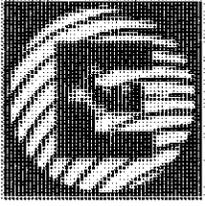
### Description

Farmland classification identifies map units as prime farmland, farmland of statewide importance, farmland of local importance, or unique farmland. It identifies the location and extent of the soils that are best suited to food, feed, fiber, forage, and oilseed crops. NRCS policy and procedures on prime and unique farmlands are published in the "Federal Register," Vol. 43, No. 21, January 31, 1978.

### Rating Options

*Aggregation Method:* No Aggregation Necessary

*Tie-break Rule:* Lower



## **ENVIRONMENTAL ENGINEERS, INC.**

**11578 US Highway 411, Odenville, Alabama 35120**

*Environmental and Geological Consultants*

November 3, 2009

Dr. Homer L. Wilkes, State Conservationist  
U.S. Department of Agriculture, Natural Resources Conservation Service  
100 W. Capital Street  
Suite 1321 Federal Building  
Jackson, MS 39269

Subject:

**Request for Project Review**

**Proposed MSWIN 20103 C Communications Tower  
Bowerton, Copiah County, Mississippi**

Environmental Engineers, Inc. Project No.: JSE01P0814

Dear Dr. Wilkes:

Environmental Engineers, Inc. is requesting comment on behalf of Towers of Mississippi, the State of Mississippi, and the Federal Emergency Management Agency (FEMA) regarding construction of a wireless communications tower in Copiah County, Mississippi. This project is being funded using a FEMA grant (2008-MS-MX-0001) and the State of Mississippi's expenditures at this site will include construction of a telecommunications facility, purchase and installation of 700 MHz RF equipment and microwave telecommunication backbone network, equipment shelter, network integration, acceptance testing, communication hardware optimization and system exercising and piloting of interoperability capabilities of the network.

The site is depicted on the United States Geological Survey 7.5-minute Topographic Quadrangle "Midway, Mississippi," dated 1972. The site is located in the northeast  $\frac{1}{4}$  of the southeast  $\frac{1}{4}$  of Section 17, Township 9 North, Range 6 East, Copiah County, Mississippi, at latitude 31°44'53.612" north and longitude 90°36'59.242" west. The site consists of a 100-foot by 100-foot lease area with three associated guy anchor easements and a proposed access road. The site is located off of John Hay Road in Bowerton, Mississippi. The proposed access road enters the site from the east. Proposed activities consist of construction of a 430-foot guyed communications tower, enclosing the compound in a fence, placement of support equipment within the compound, grading an access road, and covering the compound and access road with gravel. The proposed project is depicted on the Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Map (FIRM) "Panel 450 of 525, Copiah County, Mississippi and Incorporated Areas" effective date December 16, 2008, and is located in an area designated as Zone X (no shading) and is not located in a special flood hazard area. I have included a site location map, site photographs, and the portion of the 2007 aerial photograph depicting the site for your review.

**Phone: (205) 629-3868 • Fax: (877) 847-3060**

Environmental Engineers, Inc. has been retained by Towers of Mississippi and the State of Mississippi to prepare an Environmental Assessment (EA) for the proposed project. Please reference the Environmental Engineers, Inc. project number (JSE01P0814) in correspondence regarding this site. Thank you for your time and assistance and we look forward to your response. Please contact me by telephone at (205) 629-3868, electronic mail at [hfisher@envciv.com](mailto:hfisher@envciv.com), or U.S. mail at the letterhead address if you have any questions or comments.

Sincerely,

ENVIRONMENTAL ENGINEERS, INC.

A handwritten signature in black ink, appearing to read 'H. Fisher', with a long horizontal flourish extending to the right.

Henry A. Fisher, P.E.  
Principal Engineer

Attachments Site Location Map, Site Photographs, Aerial Photograph

United States Department of Agriculture



Natural Resources Conservation Service  
Suite 1321, Federal Building  
100 West Capitol Street  
Jackson, MS 39269

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November 17, 2009

Henry A. Fisher, P.E.  
Principal Engineer  
Environmental Engineers, Inc.  
11578 US Highway 411  
Odenville, AL 35120

ENVIRONMENTAL ENGINEERS, INC.

NOV 21 2009

RECEIVED

Dear Mr. Fisher:

This is in response to your letter dated November 3, 2009, regarding the Proposed MSWIN 20103 C Communications Tower in the Town of Bowerton in Copiah County, Mississippi.

The proposed project will not have any permanent adverse effect on prime farmland. Therefore no FPPA determination is required.

Sincerely,

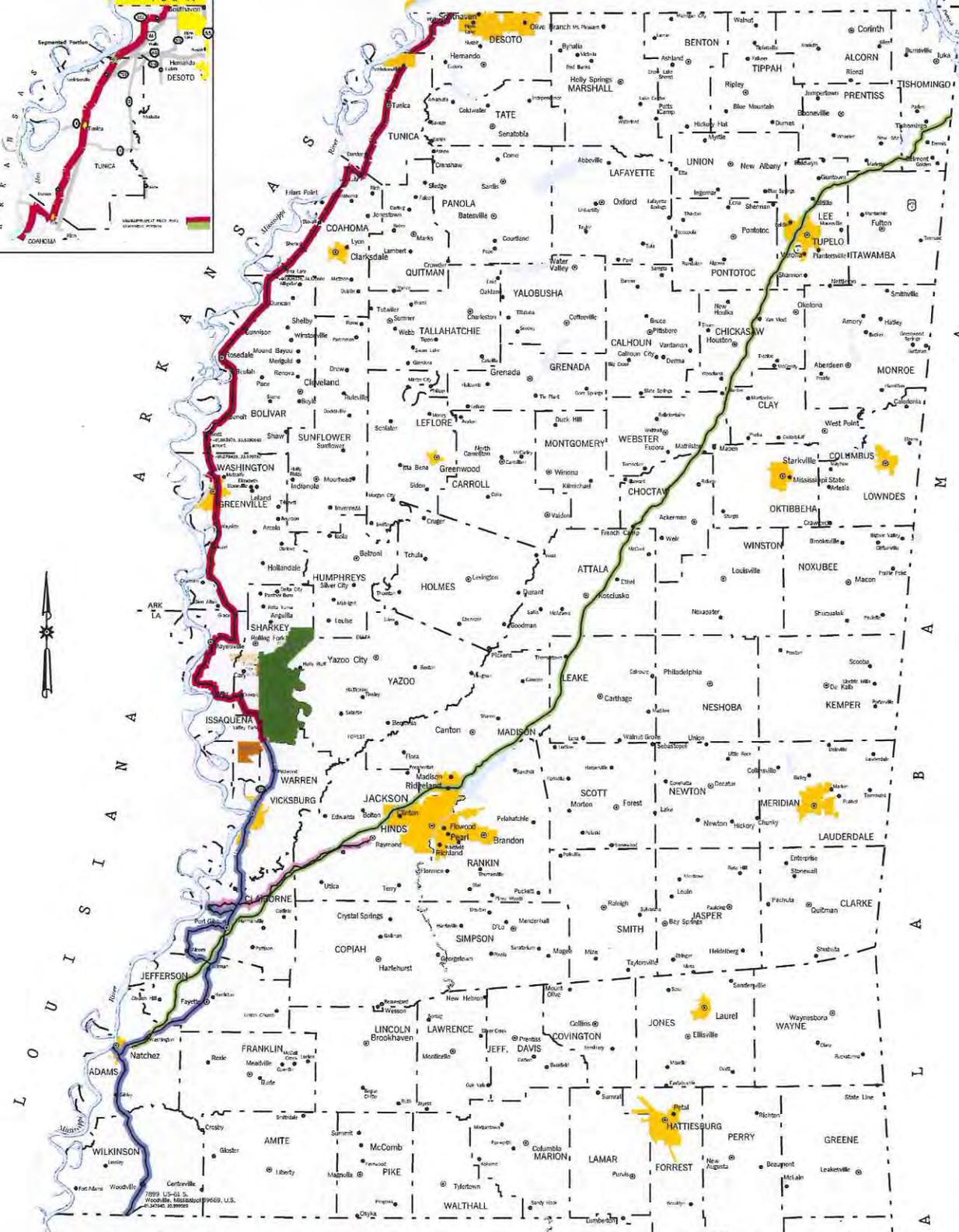
A handwritten signature in black ink that reads "Delaney B. Johnson". The signature is written in a cursive, flowing style.

Delaney B. Johnson  
State Soil Scientist

# **Appendix M**



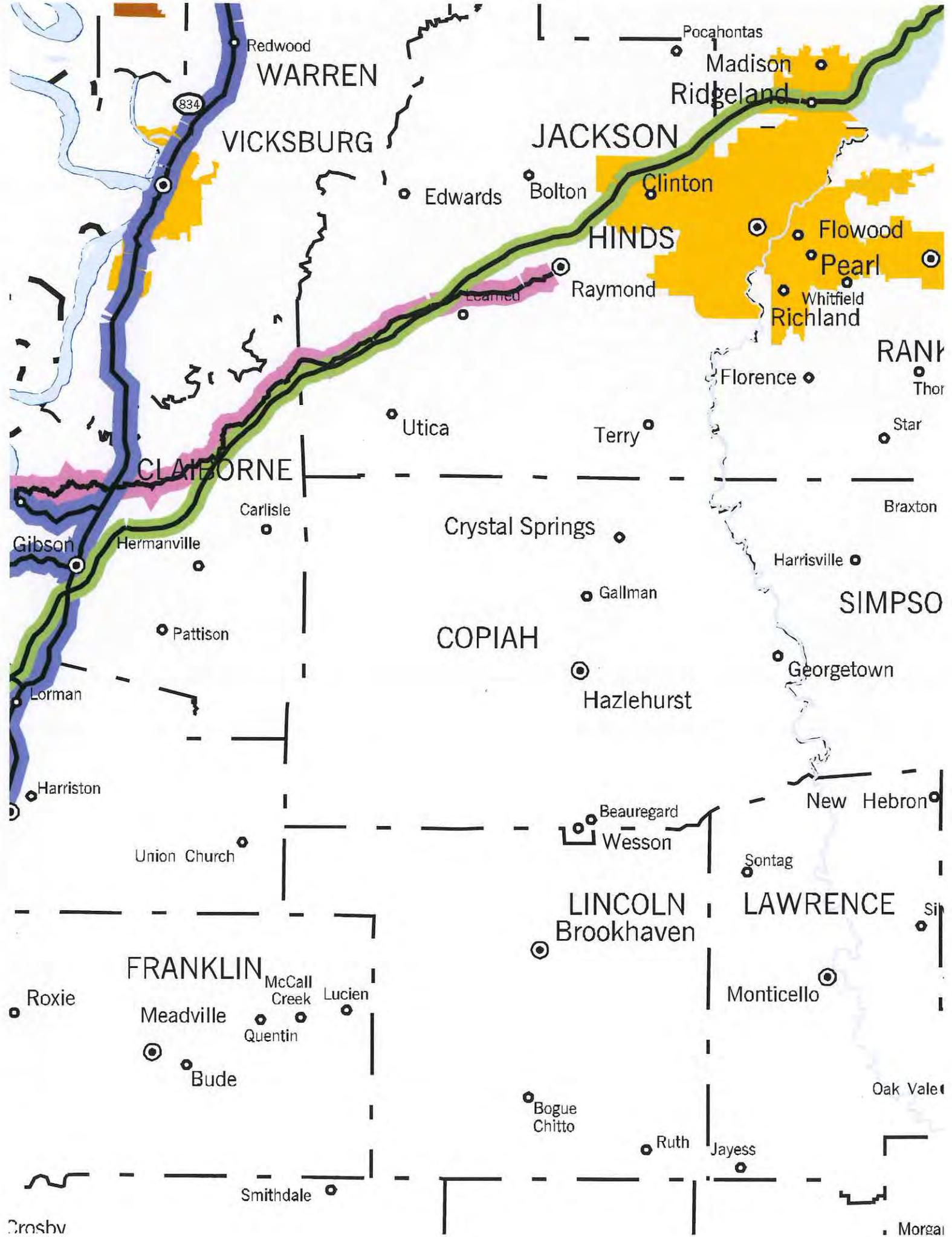
T E N N E S S E E



# MISSISSIPPI SCENIC BYWAYS

- MISSISSIPPI DELTA GREAT RIVER ROAD 
- LOWER MISSISSIPPI HISTORIC BYWAY 
- GRAND GULF - RAYMOND SCENIC BYWAY 
- NATCHEZ TRACE 
- HIGHWAY 67 SCENIC BYWAY 
- HIGHWAY 605 SCENIC BYWAY 

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 PLANNING DIVISION



# Appendix N

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# National Wild & Scenic Rivers



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## Black Creek

### Mississippi

DeSoto National Forest  
 654 West Frontage Road  
 Wiggins, Mississippi 39577

**Designated Reach:** October 30, 1986. The segment from Fairley Bridge Landing upstream to Moody's Landing.

**Classification/Mileage:** Scenic — 21.0 miles; Total — 21.0 miles.

This scenic southern river features deep, black water and contrasting white sand bars as it follows a meandering course through Mississippi's coastal plain. The river and area provide a variety of opportunities for backpacking and fishing and six launch points provide for canoeing.



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National Wild & Scenic Rivers







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## Designated Wild & Scenic Rivers

Rivers that pass through several states may have segments in each state designated. For example, the Klamath River has designations in California and Oregon. Many rivers also have numerous tributaries designated (e.g., Washington's Skagit River). Multiple listings of some rivers indicate more than one segment of the river is designated (e.g., the Missouri River in Nebraska).

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**Cossatot River, Arkansas**

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