



# **OFFICIAL AGENDA**

## **BOARD OF ADJUSTMENTS & APPEALS**

### **CITY OF STARKVILLE, MISSISSIPPI**

**WEDNESDAY, DECEMBER 14, 2011**

**4:00 PM IN THE CITY HALL BUILDING DEPARTMENT  
101 E. LAMPKIN STREET (2<sup>nd</sup> FLOOR) STARKVILLE, MS 39759**

- I. CALL TO ORDER
- II. ROLL CALL
- III. CONSIDERATION FOR APPROVAL OF THE NOVEMBER 16, 2011 MEETING MINUTES
- IV. NEW BUSINESS
  - A. VA 11-06: A REQUEST FOR A PUBLIC HEARING BY DAVID MCGEHEE OF CMI ACQUISITIONS TO CONSIDER A VARIANCE TO SECTION 104-55(B)(8)(A) OF THE STARKVILLE CODE OF ORDINANCES TO GRANT A 35.57-FOOT VARIANCE, CREATING AN 84.43-FOOT SETBACK IN LIEU OF THE 120 FEET REQUIRED FOR A PROPOSED COMMUNICATION TOWER IN A C-2 (GENERAL BUSINESS) ZONING DISTRICT LOCATED BEHIND THE PINELAKE CHURCH AT 200 MS HIGHWAY 25 BYPASS SOUTH IN WARD 1
- V. PLANNER REPORT
- VI. ADJOURNMENT

Persons with disabilities needing assistance to participate in any of these proceedings should contact the City's ADA Coordinator at least 48 hours in advance of the meeting at (662) 323-8012, ext. 132.

**UNAPPROVED**

**MINUTES OF THE MEETING OF THE  
BOARD OF ADJUSTMENTS & APPEALS  
THE CITY OF STARKVILLE, MISSISSIPPI  
NOVEMBER 16, 2011**

The Board of Adjustments and Appeals held a meeting at 4:00 PM in the Building Department at City Hall. Members present included Mr. Lee Carson from Ward 1, Dr. Milo Burnham from Ward 2, Dr. Jeff Markham from Ward 3, Dr. Dennis Nordin from Ward 4, Mr. Marco Nicovich from Ward 5, and Mr. John Hill from Ward 7. Mr. James Johnson from Ward 6 was absent. Attending the Board Members was City Planner Ben Griffith.

**CONSIDERATION OF APPROVAL OF THE MINUTES OF SEPTEMBER 28, 2011**

There came before the Board of Adjustments & Appeals the matter of approval of the September 28, 2011 meeting minutes. After discussion and upon the motion of Dr. Nordin, seconded by Mr. Nicovich, the Board voted unanimously to approve said minutes as presented.

**A REQUEST FOR A PUBLIC HEARING BY MR. MICHAEL KRAKER, TO CONSIDER A VARIANCE TO APPENDIX A, ARTICLE VII, SECTION O(B)(I), APPENDIX B, ARTICLE VI, SECTION 1(6)(A&B) AND SECTION 98-54(C) OF THE STARKVILLE CODE OF ORDINANCES TO GRANT AN INCREASE OF DENSITY, AND REDUCTIONS IN WIDTHS OF PROPOSED RIGHT-OF-WAY, STREETS AND SIDEWALKS FOR A PROPOSED PLANNED UNIT DEVELOPMENT (PUD) KNOWN AS "THE COTTAGES AT CREEKSIDE" FOR PROPERTY LOCATED ON THE NORTH SIDE OF EAST GARRARD ROAD, WEST OF OLD WEST POINT ROAD IN WARD 5**

Next there came before the Board of Adjustments & Appeals item #VA 11-05: a request by Mr. Michael Kraker to consider granting the following four variances:

1. Appendix A, Article VII, Section (O)(B)(i) to allow an increase of 1.04 dwelling units in net density to 6.04 dwelling units per acre for the project, in lieu of the maximum 5.00 dwelling units per acre allowed.
2. Appendix B, Article VI, Section 1(6)(a) to allow for a an 8-foot decrease in right-of-way width from the 50 feet minimally required to 42 feet in width.
3. Appendix B, Article VI, Section 1(6)(b) to allow for a 7-foot decrease in overall street width from the 31 feet minimally required, back of curb to back of curb, to 24 feet in width.
4. Section 98-54(c) to allow a 1-foot decrease in the required width of sidewalks from the 5 feet minimally required to 4 feet in width.

The City Planner read a brief introduction of the variances requested, stating that the applicant had asked to withdraw the variance request for the reduction in sidewalk width, but that since the advertisement and notices had already been sent, the Board would be required to act on it.

Mr. Michael Kraker presented the request, along with his wife, Gayle Kraker and Neil Couvillion.

Chairman Burnham asked for clarification on the name of the project and Mr. Kraker answered that it was “The Cottages at Creekside.”

Mr. Lee Carson stated that PUDs were frustrating for everyone and was glad to see that it had come up with this project, adding that several issues regarding PUDs should be addressed. He stated that he thought it was a great layout and design and that density was a vague concept which was extremely difficult to put numbers to, especially in a PUD which requires minimum amounts of open space which other zonings do not. Mr. Carson stated that the only problem he saw could potentially be parking due to the narrow streets. He concluded by stating that the density should be calculated as a gross density.

Mr. Marco Nicovich stated that he liked the overall project but was concerned with the narrowness of the streets and right-of-ways, adding that parking on the street would become a problem with parked cars blocking the street and sidewalks.

Mr. Carson stated that PUDs were established to allow for freedom of design and did not understand why there were so many variances for this project being brought before the Board for variances.

A lengthy discussion then took place among the Board members regarding setbacks, street widths and private vs. public streets in various developments around town.

Chairman Burnham asked if any of the Board members had any further questions for Planning staff or for the applicant. Seeing none, he then opened the public hearing and asked if any members of the public wished to address the Board.

Dr. Greg Ibendahl of 200 Pressley Drive stepped to the podium and addressed the density calculation for the project, stating that the City Planner did not understand how to do so. He referred to the definition section of the City’s Code of Ordinances which provided a definition for density and stated that the Comprehensive Plan was merely a guide and should not be used to determine density. Dr. Ibendahl provided the Board members with a handout explaining how the density for the proposed project was actually 12.04 dwelling units and not the 6.04 determined by the Planning & Zoning Commission. He concluded by stating that the project should follow the density of an R-1 zoning not R-3.

Mr. Joe Couvillion addressed the Board, stating that whenever he meets with a client about a potential project, he contacts the City to see what the regulations are and what would be needed in order to build the project.

Mr. Griffith added that City staff oftentimes meet with developers and property owners in a “pre-application meeting” which is very informal with a drawing or sketch “on the back of a napkin” to give them an idea of how to proceed. In this case, he stated that the applicants were faced with either rezoning to an R-3 or R-4 but felt that if the applicant knew what he wanted to build and could show adjacent property owners exactly what he was going to build, then a PUD would probably stand a better chance of approval than a straight R-3 or R-4 which allowed several different types of housing types.

The Board members then discussed the differences between a PUD and other zoning districts.

Mr. Ira Loveless of 108 Trotter Lane addressed the Board, stating that the Code of Ordinances says net density and not gross density and the discussion was moot.

Another lengthy discussion among the Board members took place regarding density and how to calculate it for a PUD.

Chairman Burnham stated that the Board should consider it thoughtfully so that the proper precedent would be set.

Dr. Ibendahl again addressed the Board, stating that Table 32 states that a PUD should not go above what is allowed on adjacent properties which is 4 dwelling units per acre.

Mr. Kraker stated that the City had hired a city planner to interpret the Code and he has done his job as best he can even though a lot of folks don't think he's doing his job.

Chairman Burnham asked if any other members of the public would like to comment on the variances requested. Seeing none, he then closed the public hearing portion of the meeting.

Chairman Burnham made some general comments regarding the proposed project and stated that he was deeply concerned with the narrow streets and parking situation, stating that guests would have no alternative than to park along the street. He also stated his concern regarding the density.

Dr. Jeff Markham asked the City Planner to explain the differences in calculating gross vs. net densities and Mr. Griffith did so.

Mr. Nicovich expressed his concern over the narrow streets and whether City trucks would be able to navigate narrow streets full of parked cars.

Dr. Dennis Nordin asked about the sidewalks and wanted to know if they would be ADA compliant.

Mr. Carson stated that if you were to take out the road and add the open space among the 23 lots, the average lot size would be approximately 8,000 square feet in size which is just a little less than the 10,000 square feet required by R-1 zoning. He said that it was very confusing trying to calculate density for a PUD and then compare it to an R-1 zoning district.

Another lengthy discussion among the Board members took place about density, narrow streets and parking for the project.

After further discussion, Chairman Burnham asked the City Planner whether the Board could address each variance item separately. Mr. Griffith answered that it would be best to address each one individually, so the applicant would know which variances were approved and which ones could be appealed, if necessary.

Chairman Burnham asked for a motion to deny the sidewalk variance. Dr. Nordin made a motion to deny the sidewalk variance, which was seconded by Mr. Nicovich. The Board voted unanimously to deny the sidewalk variance.

Chairman Burnham then asked for a motion regarding the roadway widths. Mr. Carson made a motion to allow a reduction of the roadway widths from the minimally required 31 feet to 24 feet, which was

seconded by Dr. Markham. Board members Hill, Carson and Markham voted in favor, while Nicovich and Nordin voted against. The motion carried 3—2.

Chairman Burnham then asked for a motion regarding the right-of-way widths. Mr. Carson made a motion to allow a reduction of the right-of-way widths from the minimally required 50 feet to 42 feet, which was seconded by Mr. Hill. Board members Hill, Carson and Markham voted in favor, while Nicovich and Nordin voted against. The motion carried 3—2.

Chairman Burnham then asked for a motion to allow an increase in the density. After discussion, the City Planner read aloud several versions of a possible motion and several Board members offered input. After further discussion, Mr. Carson made a motion to approve the gross density calculation of “The Cottages at Creekside” of 4.59 dwelling units per acres based on a maximum number of 23 dwelling units for the 5.01 acre site, which was seconded by Dr. Markham. Board members Hill, Carson, Markham and Nicovich voted in favor, while Dr. Nordin voted against. The motion carried 4—1.

Chairman Burnham declared the item closed and moved to the next item on the agenda.

### **PLANNER REPORT**

Mr. Griffith stated that there would be a meeting for December 14<sup>th</sup> and that he had talked to someone about a possible submittal for January. He also presented the proposed 2012 submittal and meeting schedule, stating that there were five Thursdays in November and that the fourth Wednesday actually fell after the Thanksgiving holiday. Mr. Griffith asked if any of the Board members had any issue with holding the November meeting on the fourth Wednesday, after the Thanksgiving holidays, and none did. He concluded by reminding the Board members to be mindful of all *ex parte* communications and to contact the Planning Office with any questions regarding any upcoming cases.

### **ADJOURNMENT**

There being no further business before the Board of Adjustments & Appeals, a motion to adjourn was made by Dr. Nordin and seconded by Mr. Nicovich at 5:25 PM. The next meeting of the Board of Adjustments & Appeals will be Wednesday, December 14, 2011 at 4:00 PM in the Building Department at City Hall.

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Milo Burnham, Chairman

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Ben Griffith, AICP, City Planner



**THE CITY OF STARKVILLE**  
BOARD OF ADJUSTMENTS AND APPEALS  
CITY HALL, 101 E. LAMPKIN STREET  
STARKVILLE, MISSISSIPPI 39759-2944

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## **STAFF REPORT**

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**TO:** Members of the Board of Adjustments and Appeals  
**FROM:** Pamela F. Riley Daniel, Assistant City Planner (662-323-2525 ext. 131)  
**CC:** David McGehee, CMI Acquisition, Applicant  
**SUBJECT:** VA 11-06: Dimensional variance for proposed communication tower located at Highway 25 South; Parcel Number 103G-05-002.00  
**DATE:** December 9, 2011

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The purpose of this report is to provide you with information regarding the request of David McGehee, CMI Acquisitions, working on behalf of Cellular South Real Estate, Inc. to review a variance to Section 104-55(b)(8)(a) of the City of Starkville's Code of Ordinances to grant an 84.43-foot setback distance in lieu of the required 120-foot setback for a communication tower on property which is zoned C-2 (General Business) and located at Highway 25 South. Chapter 2, Article VI of the City's Code of Ordinances provides specific criteria for the review and approval of requests.

### **BACKGROUND**

#### **General Information:**

The applicant is proposing the placement of a communication tower on the subject property located at Highway 25 South. The subject leased property is approximately .42 acres of land within a C-2 (General Business) zoning district. The subject property is currently undeveloped/vacant land located approximately 550 feet from the nearest roadway. The proposed communication tower will be a one hundred-twenty (120) foot monopole design within a secured 30' x 40' compound, accessed by a 12' wide driveway from Highway 25. The facility will be unmanned. To reduce or eliminate visual obtrusiveness, the height requested will minimize the profile of the tower to better blend-in with any future development and landscaping. There are no tall structures in the area suitable for antenna co-location, however, the proposed communication tower will be designed to accommodate other Cellular South carriers whereby Cellular South will allow and encourage others to co-locate.

To avoid interference with established public safety telecommunications Cellular South will operate in compliance within FCC licensed spectrum, which will eliminate any possibility of interference of the antennas with any television, radio, or emergency systems-see attached professional engineer stamped letter. An aeronautical study was completed and revealed that the structure of the communication tower does not exceed obstruction standards and will not be a hazard to air navigation-see attached FAA letter.

Eight property owners of record within 300 feet of the subject property were notified directly by mail of the variance request. A public hearing notice was published in the Starkville Daily News on Friday, November 18, 2011 and a placard was posted on the property concurrent with publication of the notice. As of this date, the Planning Office has received two (2) inquiries regarding the variance request. An adjacent property wanted to know what the variance was for while an attorney acting on behalf of the second property owner wanted to know the exact location of the cell tower.

**Legal Description:** The Northwest corner of Section 8, Township 18 North, Range 14 East, Oktibbeha County, Mississippi.

**Location:** The subject property is immediately west of Highway 12 on the South ½ of Lot 7 in Western Crossing Development.

**Parcel Size:** The leased area consists of 18,225 square feet or approximately .42 acres.

**Physical Characteristics:** The subject property currently narrows on the northwestern corner which has not been developed.

**Zoning Classification:** C-2 (General Business)

**Adjacent Zonings / Land Uses:**

Direction	Zoning	Current Use
North	R-1	Highlands Estates
East	C-2	Pinelake Baptist Church
South	C-2	Undeveloped land
West	B-1	Undeveloped land

Appendix A, Article VI, Section K of the City’s Code of Ordinances provides relief from the requirements of the land development regulations when such relief will not be contrary to the public interest and, where, owing to special conditions, a literal enforcement of the provisions of the land development regulations would result in an unnecessary hardship. When appropriate, the Board of Adjustments and Appeals may prescribe appropriate conditions and safeguards in the granting of the special use variance. In determining whether or not sufficient justification for the granting of a special use variance has been fulfilled, the Board of Adjustments and Appeals must find that the following criteria have been met. The criteria are outlined below, along with analysis of the conformance of the request with the variance standard.

1. That special conditions and circumstances exist which are peculiar to the land, structure or building involved and which are not applicable to other land, structures or buildings in the same zoning district.

*At the present time, Cellular South has limited signal coverage and is experiencing capacity problems in the Western portions of the City of Starkville. These coverage problems worsen at peak*

*traffic times and inside cars and buildings. In addition, their growth of customer base is expanding and they need to include this area to cover vehicular traffic along Highway 25 and to cover the businesses and residences in the area.*

2. That the special conditions and circumstances do not result from the action or negligence of the applicant.

*The dimensional variance is for a proposed communication tower on the west side of Starkeville to handle the capacity demands on the west side of Highway 25 and south to Highway 12.*

3. That granting the variance requested will not confer upon the applicant any special privileges denied by the land development regulations to other lands, buildings or structures in the same zoning district.

*No special privileges would be conferred on the applicant that could be denied to others in the same district.*

4. That literal interpretation of the provisions of the land development regulations would deprive the applicant of rights commonly enjoyed by other properties in this same zoning district under the terms of this ordinance and would work unnecessary and undue hardship on the applicant.

*The applicant would be granted a privilege not usually conferred on others in the area, but the communication tower owner will allow and encourage co-location on their tower. The tower would be designed to accommodate several carriers. The 84.43-foot setback proposed by the applicant will be ideally suited for the site and convenient for C Spire Wireless customers.*

5. That the variance granted is the minimum variance that will make possible the reasonable use of the land, building or structure.

*The dimensional variance requested is the minimum required to accommodate the applicant's need to handle the capacity demands. There are no existing towers or other structures suitable for co-location of Cellular South's antennas. Therefore, to provide continuous coverage, the applicant finds it necessary to construct the proposed tower.*

6. That the grant of the variance will be in harmony with the general intent and purpose of the land development regulations and that such variance will not be injurious to the area involved or otherwise detrimental to the public interest or welfare.

*The dimensional variance requested will be in harmony with the general intent and purpose of the land development regulations and the variance will not be injurious to the area involved or otherwise detrimental to the public interest or welfare.*



## **CONCLUSIONS**

If the Board of Adjustments and Appeals were to grant the dimensional variance request to allow an 84.43-foot setback distance in lieu of the 120' required from the tower base to the South of the property line at Highway 25 South, as proposed by the applicant on the application dated November 7, 2011, the approval would be based on the findings of fact and conclusions of this staff report dated December 9, 2011, and the following conditions:

1. The setback distance shall not extend 84.43 feet from the tower base to the South property line.
2. The applicant shall submit a complete site plan package to the City's Development Review Committee and receive approval within one-hundred-eighty (180) days of approval of the special use variance request by the Mayor and Board of Aldermen.
3. The applicant shall obtain a building permit and begin construction within ninety (90) days of the approval of the site plan by the City's Development Review Committee.
4. All of the above conditions shall be fully and faithfully executed or the variance shall become null and void.

# CITY OF STARKVILLE BOARD OF ADJUSTMENT AND APPEALS CASE LOCATOR MAP

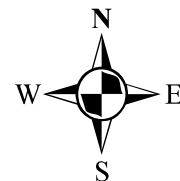
Case # VA 11-06

Ward # 1

Date of Public Hearing: Wednesday, December 14, 2011



Shaded Area Indicates Subject Property

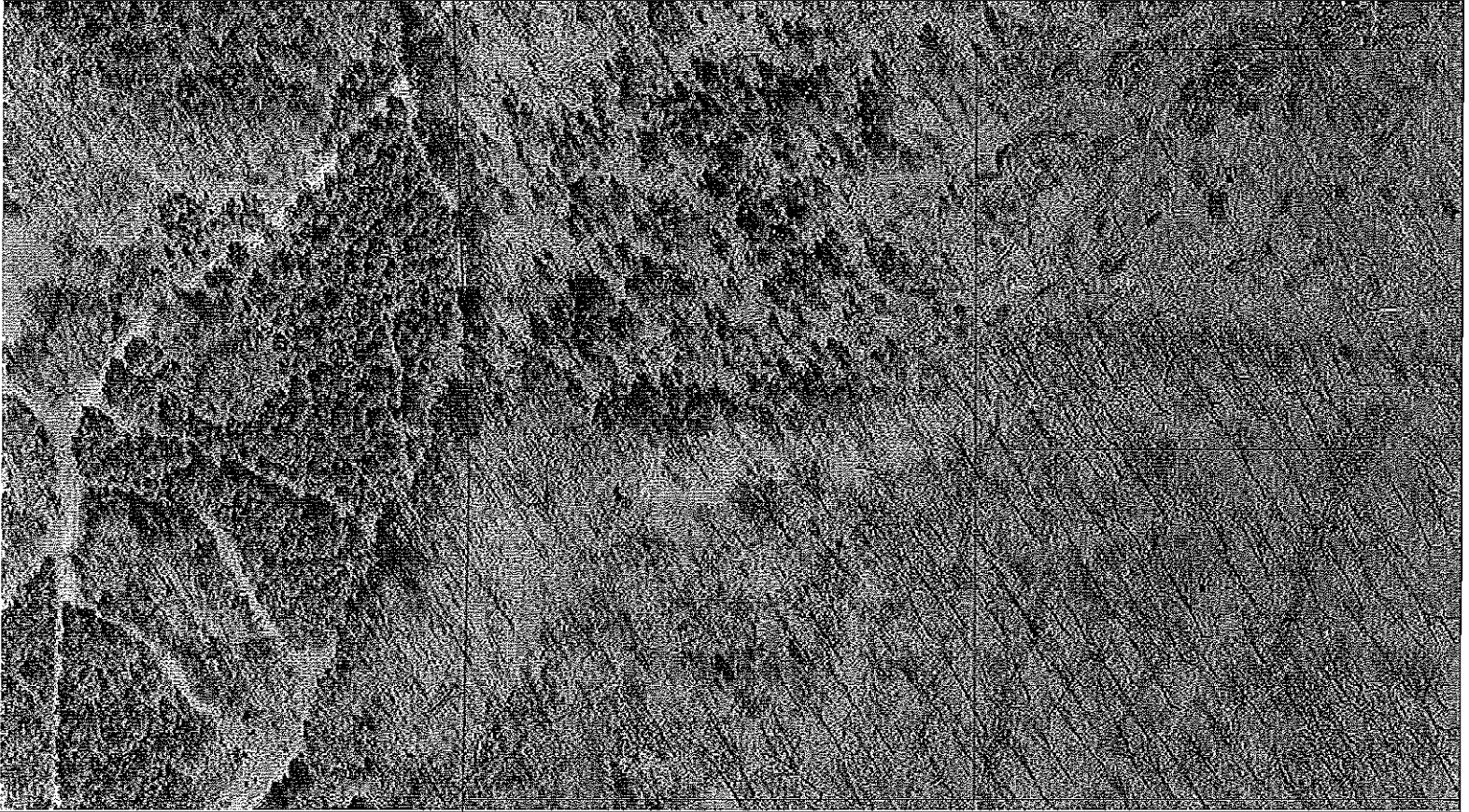


Not to Scale

# OKTIBBEHA, MISSISSIPPI



# OKTIBBEHA, MISSISSIPPI





## **ENVIRONMENTAL ENGINEERS, INC.**

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

*Environmental, Remediation, and Geological Consultants*

November 4, 2011

City of Starkville  
Planning and Zoning Commission  
City Hall, 101 E. Lampkin Street  
Starkville, MS 39759-2944

Subject:

**MS1726 Stark Road Telecommunications Facility**  
**Starkville, Oktlbbela County, Mississppi**  
Environmental Engineers, Inc. Project No.: CEL01P1105

To Whom It May Concern:

At the request of Cellular South Real Estate, Inc. we are providing this letter to be used for the purposes of complying with the local jurisdiction requirements for zoning/building permits. The following information was provided to me by Cellular South Real Estate, Inc. regarding the above-referenced project:


Cellular South Real Estate, Inc., in accordance with all government rules and regulations, operates only in the frequency bands in which it is licensed by the Federal Communications Commission (FCC). For BTA 94 (the Columbus-Starkville, Mississippi market), those frequencies are CDMA B Block, TX 881.52 – 889.08 MHz, and RX 836.52 – 844.08 MHz and LTE C-AWS/A-700 Block TX 2130 – 2135/698-704 MHz and RX 1730-1735/728-734 MHz. By use of only the licensed spectrum, Cellular South Real Estate, Inc. does not interfere with any television, radio, or public emergency equipment, which operate in a different band chosen by the FCC. The antennas used to propagate Cellular South Real Estate, Inc.'s signal are designated to use the spectrum selected by the FCC for CDMA signals only, thereby eliminating any possibility of interference with television, radio, or emergency systems.

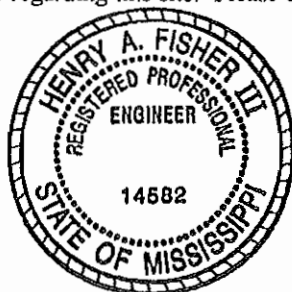
Attached is an information sheet provided by Cellular South Real Estate, Inc. for the antennas that will be installed on the proposed 120-foot monopole wireless communications tower. Based on this information and provided that Cellular South Real Estate, Inc. continues to utilize antennas that operate within its licensed spectrum, Cellular South Inc.'s signals should not interfere with television, radio, or emergency systems.

In addition, the proposed antennae should comply with FCC requirements for RF related emissions established in 47 CFR Section 1.1307 provided that the antennas are mounted such that the height above ground level for the lowest point of the antennas is at least 10 meters. The proposed mounting height for the antennas on this tower is 120 feet (36.58 meters) above ground level, which is over 10 meters above ground level to the lowest point on the antennas. Therefore, these antennas should meet FCC RF requirements established in 47 CFR 1.1307.

Environmental Engineers, Inc. appreciates the opportunity to provide this information. Please reference the Environmental Engineers, Inc. project number (CEL01E1105) in correspondence regarding this site. Please call us at (205) 629-3868 if you have any questions or comments.

Sincerely,  
ENVIRONMENTAL ENGINEERS, INC.

  
Henry A. Fisher, P.E.  
Principal Engineer



Attachments: Antenna Information Sheet

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

## HTXC6318x000

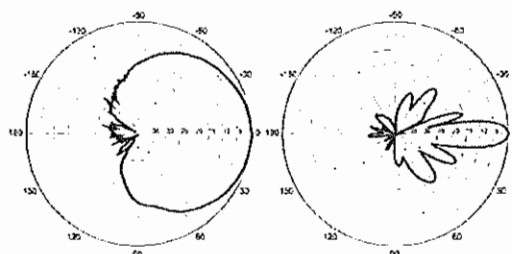
X-Pol | VET Panel | 63° | 18 dBi

Replace "X" with "M" for manual electrical tilt or "R" for remote electrical tilt

HTXC6318M000 - Manual Electrical Tilt Antenna  
HTXC6318R000 - Remote Electrical Tilt Antenna

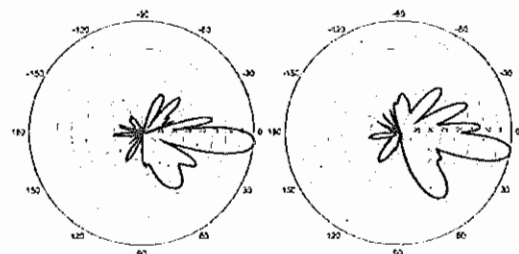


Electrical Characteristics	696-900 MHz		
Frequency bands	696-806 MHz	806-900 MHz	
Polarization	±45°		
Horizontal beamwidth	65°	63°	
Vertical beamwidth	8°	7°	
Gain	15.4 dBd (17.5 dBi)	15.9 dBd (18.0 dBi)	
Electrical down tilt	0-10°		
Impedance	50Ω		
VSWR	≤1.5:1		
Upper sidelobe suppression (0°)	> 16 dB	> 16 dB	
Front-to-back ratio (+/-30°)	> 30 dB	> 30 dB	
Isolation between ports	< -25 dB		
Input power	500 W		
Lightning protection	Direct Ground		
Connector(s)	2 Ports / EDIN / Female / Bottom		
<b>Dimensions</b>			
Dimensions HTXC6318M000 (LxWxH)	2405 x 300 x 175 mm	94.7 x 11.8 x 6.9 in	
Dimensions HTXC6318R000 (LxWxH)	2580 x 300 x 175 mm	101.6 x 11.8 x 6.9 in	
Depth with z-brackets	215 mm	8.5 in	
Weight without mounting brackets	18 kg	39.7 lbs	
Survival wind speed	> 201 km/hr	> 125 mph	
<b>Mounting Options</b>			
3-Point Mounting & Downhill Bracket Kit	Part Number 36210008	Fits Pipe Diameter 40-115 mm 1.57-4.5 in	Weight 6.9 kg 15.2 lbs



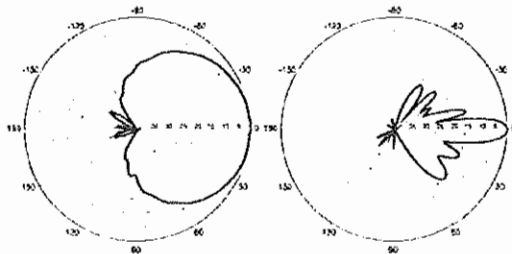
Horizontal | 750 MHz

0° | Vertical | 750 MHz



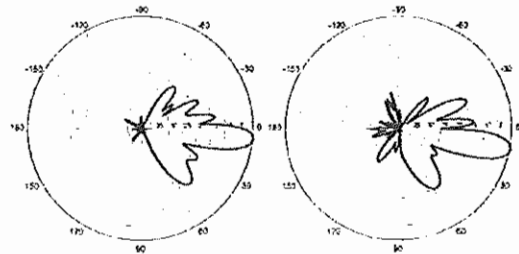
5° | Vertical | 750 MHz

10° | Vertical | 750 MHz



Horizontal | 850 MHz

0° | Vertical | 850 MHz



5° | Vertical | 850 MHz

10° | Vertical | 850 MHz

Quoted performance parameters are provided to offer typical or range values only and may vary as a result of normal manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to product may be made without notice.



Mail Processing Center  
Federal Aviation Administration  
Southwest Regional Office  
Obstruction Evaluation Group  
2601 Meacham Boulevard  
Fort Worth, TX 76137

Aeronautical Study No.  
2011-ASO-5335-OE

Issued Date: 09/29/2011

1018 Highland Colony Pkwy  
Cellular South  
RF Department  
Ridgeland, MS 39157

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Antenna Tower - Stark Road  
Location: Starkville, MS  
Latitude: 33-26-59.02N NAD 83  
Longitude: 88-51-23.77W  
Heights: 120 feet above ground level (AGL)  
427 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be completed and returned to this office any time the project is abandoned or:

- At least 10 days prior to start of construction (7460-2, Part I)  
 Within 5 days after the construction reaches its greatest height (7460-2, Part II)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed and maintained in accordance with FAA Advisory circular 70/7460-1 K Change 2.

This determination expires on 03/29/2013 unless:

- (a) extended, revised or terminated by the issuing office.
- (b) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

**NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO**

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates , heights, frequency(ies) and power . Any changes in coordinates , heights, and frequencies or use of greater power will void this determination. Any future construction or alteration , including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

A copy of this determination will be forwarded to the Federal Communications Commission (FCC) because the structure is subject to their licensing authority.

If we can be of further assistance, please contact our office at (310) 725-6558. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2011-ASO-5335-OE.

**Signature Control No: 148315432-150331834**

( DNE )

LaDonna James  
Technician

Attachment(s)  
Frequency Data  
Map(s)

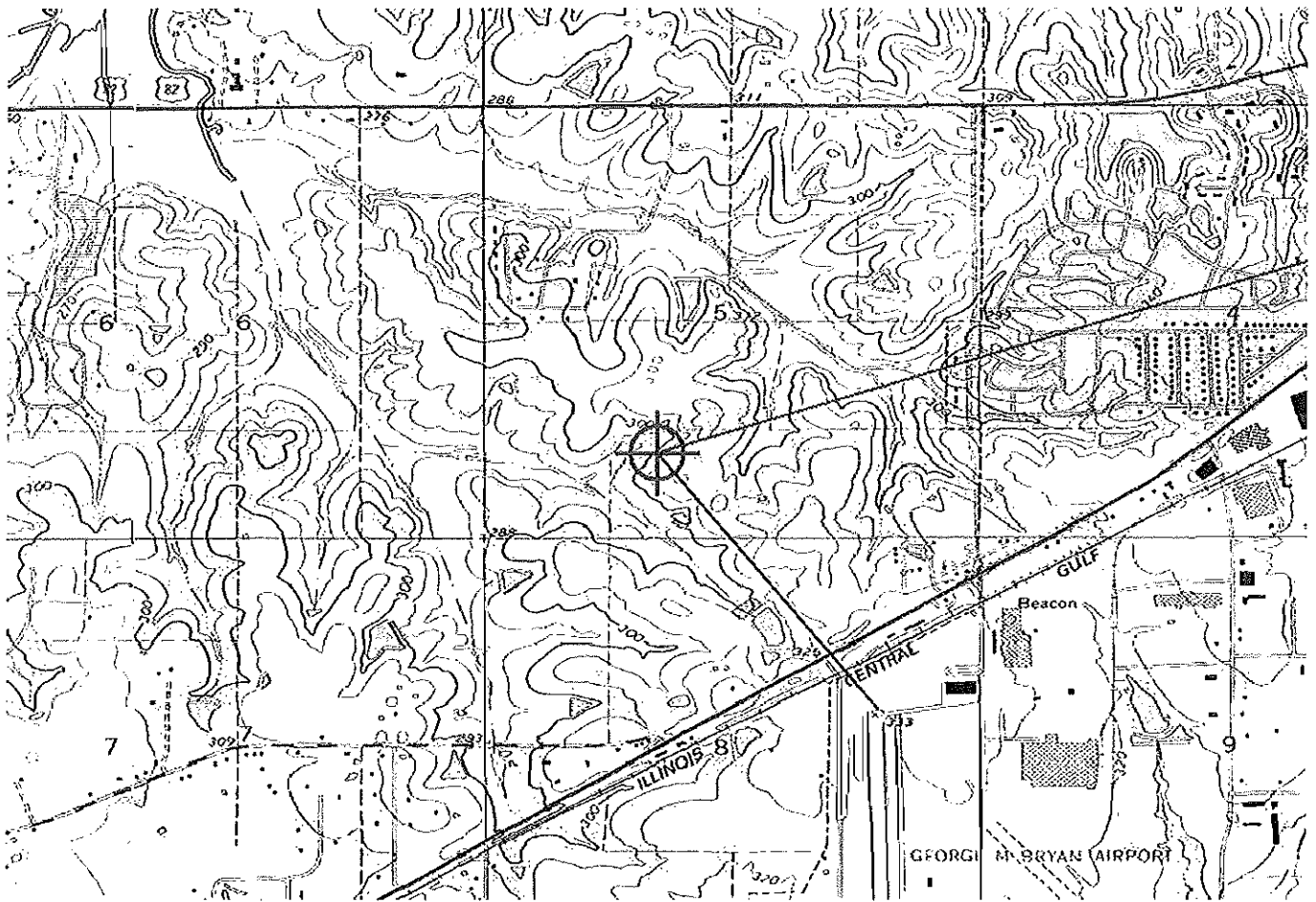
cc: FCC



Frequency Data for ASN 2011-ASO-5335-OE

<b>LOW FREQUENCY</b>	<b>HIGH FREQUENCY</b>	<b>FREQUENCY UNIT</b>	<b>ERP</b>	<b>ERP UNIT</b>
698	806	MHz	1000	W
806	824	MHz	500	W
1850	1910	MHz	1640	W
1930	1990	MHz	1640	W

Verified Map for ASN 2011-ASO-5335-OE



PROPOSED 120' MONOPOLE

REFER TO TOWER MANUFACTURER'S DWGS. FOR FOUNDATION & ELEVATION DETAILS

(3) FUTURE CARRIERS @  
SEE MANUFACTURER'S DWGS  
FOR SEPARATION (TYP.)



SECTOR MOUNTS OR  
PLATFORM MOUNT  
AT RAD. CENTER;  
CENTER ANTENNA  
PIPE ON MOUNT.  
CENTER ANTENNA  
ON PIPE.

MONOPOLE SHALL  
BE INSTALLED SUCH  
THAT STEP BOLTS  
HAVE LEAST VISUAL  
IMPACT

MONOPOLE  
ELEVATION  
(SCALE: NTS)



*[Handwritten Signature]*  
11/3/11

REGISTERED PROFESSIONAL ENGINEER SEAL

 **HARDY ENGINEERING, INC.**

ENGINEERING AND CONSULTING  
209 LINDEN STREET, P.O. BOX 708  
TRUSSVILLE, AL 35173

PHONE: (205) 655-1427 FAX: (205) 661-9027

DWG. NAME:

**DETAILED SITE LAYOUT**

MS1726 - STARK ROAD  
STARKVILLE, MISSISSIPPI  
FOR  
CELLULAR SOUTH

CAO No:

MS1726\_C1

SCALE:

AS SHOWN

DWG. No.

**C1**