

9-0-06-UR



Larry D. Perry

11464 Saga Lane • Knoxville, TN 37931-2819  
Telephone (865) 927-8474 Fax (865) 927-4912 Email: larryperry@worldnet att net

August 31, 2006

Kelly Schlitz/Tom Brechko  
MPC  
400 Main Street  
Suite 403  
Knoxville, TN 37902

VIA FED EX

**RE: 9-P-06-UR and 9-0-06-RU---VERIZON AND CINGULAR WIRELESS**

Dear Kelly:

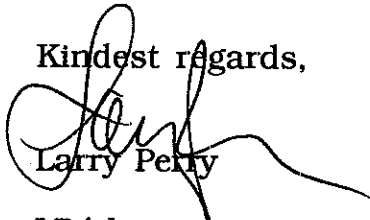
Here are the reports and the original filings of the applications for antenna support structures on Sutherland Avenue and on Donaldson Streets.

The site on Donaldson is for a temporary site to be used by Cingular during UT events for overload capacity on a seasonal basis. The tower is a crank up telescoping type tower and will be dropped down to about 10 feet when not in use.

The Verizon site on Sutherland is also a capacity site, meaning that the cell site that presently services that area is overloaded such that there are numerous calls that are dropped. It is in a largely industrial and commercial area and the permanent type structure proposed there is only 90 feet and should present no impact to the area.

Should you have any questions, please don't hesitate to call me. I plan to be at the MPC meeting on the 14th if possible. Will the other site on Western Avenue from last month that was postponed also be on the same agenda?

Kindest regards,



Larry Perry

LP/eb

**CINGULAR WIRELESS PCS, LLC.**  
**USE ON REVIEW APPLICATION # 9-0-06-UR**  
**CONSULTANT'S SUMMARY**  
**2111 DONALDSON STREET SITE REQUEST**

**Location:** 2111 Donaldson Street (City of Knoxville)

**Proposed Tower Height:** Variable but 100 feet maximum temporary telescoping Monopole

**Address:** 2111 Donaldson Street  
Knoxville, Tennessee

**District:** 1st Councilmanic Dist    **Map Number:** 108D **Parcel** 2.00

**Use:** Temporary telecommunications antenna support structure

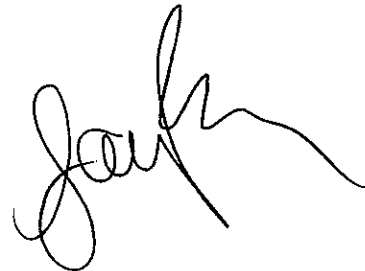
**Zoning:** I-3 District

**Variances and waivers:** None required

**Need:** The applicant is a communications carrier that provides communication service to area citizens. The applicant in this case is Cingular Wireless PCS, a licensed PCS carrier by the Federal Communications Commission. The carrier has justified a need for service in the area.

**Instant Proposal:** Construct a 100 foot (maximum) Temporary monopole type support structure.

**Consultant's Recommendation:** The applicant proves adequate justification for the site using a temporary telescoping structure to be used seasonally during University of Tennessee activities requiring additional communications capacity for the events.

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**REPORT TO**  
**METROPOLITAN PLANNING COMMISSION**

for

Proposed Telecommunications Tower Site  
located at 2111 Donaldson Street  
Knoxville, TN

**CINGULAR WIRELESS PCS LLC**

**UOR 9-0-06-UR**

**COMPLIANCE WITH**

**THE MPC TELECOMMUNICATIONS FACILITY ORDINANCE**

8/28/2006

The proposed site for the applicant is a short temporary antenna support structure (including antennas and lightning rod) to be located at 2111 Donaldson Street in the City of Knoxville. The supporting material from applicant has been reviewed for technical and Federal/State legal compliance. This is a new temporary telecommunications site to be used only during local UT events.

**REQUESTED**

1. **Location.** The location is within the **City** of Knoxville limits in **Councilmanic Dist 1** and is located on **Tax Map Number 108 Group B Parcel 2.00**.

2. **Zoning.** I-3---Industrial District

3. **Tower height.** The requested height is less than 100 feet above ground level. Lighting will not be required on this structure. This is a very short temporary structure to provide added capacity during the University ball games.

4. **Variiances.** The set back requirements in Article 5 Section 20 of the Ordinance for the City of Knoxville are met with this structure.

5. **Site.** This application is for the construction of a temporary monopole type antenna support structure to be located on a vacant lot on Donaldson Street behind Garron oil distributors in their rear parking lot. The proposed site is immediately adjacent to a residential area (R-2) zone to the south separated by a tree line.

6. **Use.** This antenna support structure will be used for telecommunications with the present state of the art communications technology using PCS and cellular communication sources.

7. **Setbacks.** The setback requirements in Article 4 Section 10 for I-3 construction is a minimum 50 feet from any property line. (*Art. 4 Section 10(E)(2-4) see also Article 5 Section 20 (B)(2)*). In addition the Ordinance requires a setback from the rear property line in this case of 110 feet (*110 % of the tower height*) as the rear property line adjoins an R-2 zoned property. The applicant proposes 110+ feet. A variance is not required.

8. **Height.** The proposed monopole structure will be up to 100 feet (maximum) overall height. However, this is necessary to meet line of sight clearance requirements and a clear shot to Neyland Stadium and the University area. (*Art.5, Section 20 of the Ordinance.*)

9. **Alternatives:** There are no alternative antenna support structures anywhere in the area. Since this is a temporary and seasonal structure that will be moved to other event locations in the off seasons there should be no requirement for other users on this structure.

10. **Facilities Plan Compliance:** The proposed site is in an industrially zoned area (I-3). There are low density residential houses located near the proposed facility and but more than 150 feet away from the proposed site. However, the area as a meets the Sensitive area in that it is located within 500 feet of low density residential areas were the residential homes zoned R, which is the case here. The proposed site is located on Donaldson Street on a vacant parking lot land site with trees and vegetation on a line between the proposed site and the R-2 area. This would place the site as neutral. Since the structure is a temporary one and very short, there should be no impact on the surrounding area.

## **EVALUATION**

The following is a list of items reviewed:

Zoning Ordinance for Knox Tennessee by Metropolitan Planning Commission---Telecommunication Facilities Section (as amended thru July 1, 2006)

The MPC Wireless Facilities Plan dated 2004.

Check for other existing towers capable of supporting the load and elevation clearance requested by the applicant herein and within 1 mile radius of site.

Review support structure drawings and specifications with applicant

Review FAA lighting and marking requirements and proposals

Review FCC requirements regarding signal coverage, towers and

Review FCC requirements regarding signal coverage, towers and lighting

Review applicant's justification for site in compliance with the FCC's requirements for telecommunication company providers compliance with required coverage for the use of the general public.

Review Site plan by applicant

Check Zoning

Check setbacks for building and antenna support structure

Check landscape plan

Check proximity to other structures and district boundaries

Check nature of surrounding land uses

Check surrounding foliage and tree coverage

Check design of tower for esthetic changes

Check height requirements necessary for coverage

Check separation from other towers

Check frequencies proposed for possible interference to TV and radio reception in the immediate vicinity of the structure.

## **DISCUSSION**

I visited the proposed tower site that is a part of this review. Further, I reviewed their specifications and requirements.

The applicant has proposed a site that is located on Donaldson Street just off W Blount Avenue in a parking lot parcel of land immediately behind the Garron Oil distributor. There are no other support structures within a 1 mile radius of this site.

The location is an area zoned I-3 (industrial). It should be noted that there are residential homes immediately adjacent to the proposed site on the south, but are shielded in large part by trees and vegetation. The area would be characterized as a Sensitive area since it is within 500 feet of low density residential homes and thus would be considered a neutral category based upon the Land Use/Wireless Facilities Matrix.

Lighting for the structure will not be required.

The new support structure will be located near the edge of the parking lot.

There is a need for the added signal coverage as proposed by the carrier, Cingular Wireless PCS, in the University area on a temporary basis.

## **SUMMARY**

(1) The proposed antenna support structure is a 100 foot (maximum) temporary telescoping monopole including antennas. There are no lighting required by the FAA.

(2) The structure design meets or exceeds FCC and EIA requirements.

(3) The area of the proposed site is zoned I-3. There is a residence immediately to the south of the proposed site from the site that is about 175+ feet feet from the proposed tower location on Hawthorne Ave in an area zoned R-2, but this home is shielded by a tree line.

(4) There is tree coverage in the area, but the structure will have no impact on the trees.

(6) The proposed equipment housing facility is an outdoor cabinet and will have no impact on the aesthetics of the adjacent land uses. The landscape plan indicates that the fenced area will be surrounded by vegetation as coverage for the location. Further the short structure should have no impact on the aesthetics of the area.

(7) The applicant has received authorization from the various governmental agencies, including the Federal Communications Commission, to provide communication service to the citizens of Knoxville, Tennessee.

(8) The requested site will have little impact on the community involved when compared with the benefits to be derived from the advanced service offered by the applicant and it is only temporary and seasonal.

(9) There are no other antenna support structures within 1 mile of the proposed site that are usable for the coverage required.

(10) There are no variances required for setbacks for the proposed site.

(11) The proposed site and structure will have no environmental impact within the federal guidelines.

(12) The nature of the development in the surrounding area is not such as to pose a potential hazard to the proposed tower or to create an undesirable environment for the proposed tower.

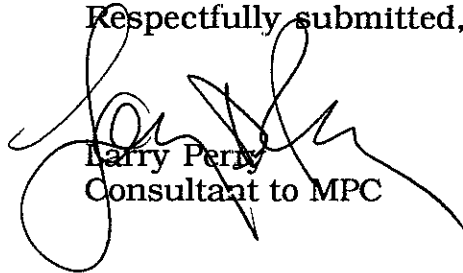
(13) The proposed frequencies to be used by the various applicants who plan to use the site should present no problem nor any interference to area reception of commercial television or radio signals.

(14) There is a need for the structure in this area to provide for the visitors to Neyland Stadium and University of Tennessee both at the stadium and on the water just outside the stadium.

**SUMMARY**

In light of the analysis and review of documents, it is my professional opinion that the applicant **has made a showing of justification** for the site at 2111 Donaldson Street due to the large over-capacity of existing site usage during sporting and other events at the University.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Larry Perry', is written over the typed name and title. The signature is fluid and cursive, with a large loop at the end.

Larry Perry  
Consultant to MPC

00





AUG. 18 2006 8:45AM

NO 155 P. 2

 cingular  
raising the bar



AUG 17 2006

August 17, 2006

Metropolitan Planning Commission  
City County Building  
Knoxville, TN 37902

To Whom It May Concern:

The temporary Cell on Wheels (COW) being placed at 2111 Donaldson St. will not be able to accommodate more than one antenna array, due to its small size. This COW is owned by Cingular Wireless and will only be used by Cingular Wireless during the UT Football Season.

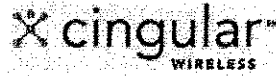
Sincerely,



Diana Marsh  
Network Engineer

9-0-06-WR

AUG 16 2006



Erika Helle  
RF Design Engineer  
East Tennessee  
3585 Workman Road  
Knoxville, TN 37921  
(865) 824-2231

August 14, 2006

Re: Statement of Need: 232P0997 -- UT COW1

Dear Sir or Madam:

This letter is to state the need of the proposed Cingular Wireless Cell-On-Wheels (COW) site called **UT COW1** to be located in **Knox County, TN**. The **UT COW1** site will add traffic capacity to the **UT Campus**, **Neyland Stadium**, and along the **riverfront area**, during the **UT home games**. The lack of capacity in the area during the **UT home games** causes numerous block calls, or lack of access for the customers. With the addition of this **COW**, the customers in the area will experience improved accessibility and improved access to emergency 911 services on home game days.

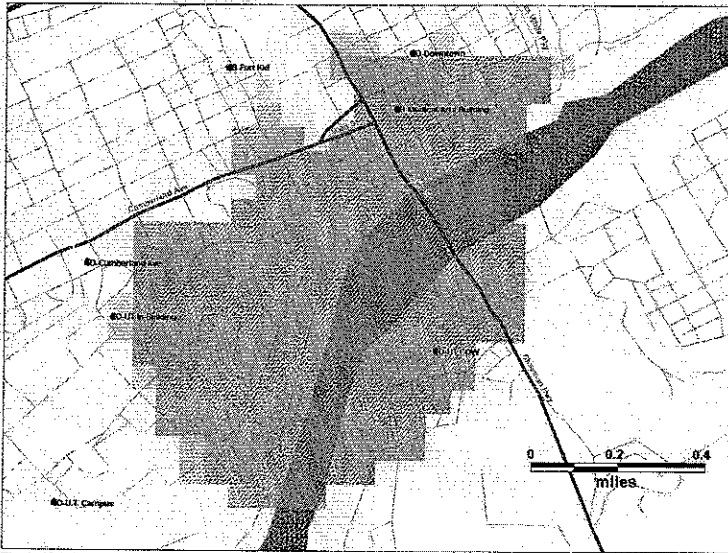
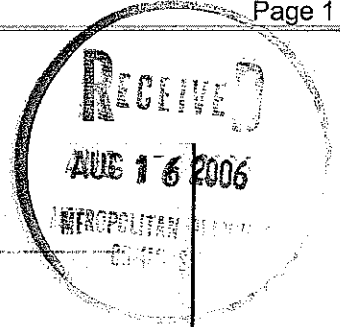


Fig 1: UT COW1 predicted Coverage.

Erika Helle  
Erika Helle  
RF Design Engineer  
East Tennessee Market

9-0-06-WR



Erika Helle  
RF Design Engineer  
East Tennessee  
3585 Workman Road  
Knoxville, TN 37921  
(865) 824-2231

August 14, 2006

Re: Co-Location Information: UT COW1 site

Dear Sir or Madam:

There were no existing structures located within or near the UT COW1 search area to examine in order to determine development potential for the UT COW1 project.

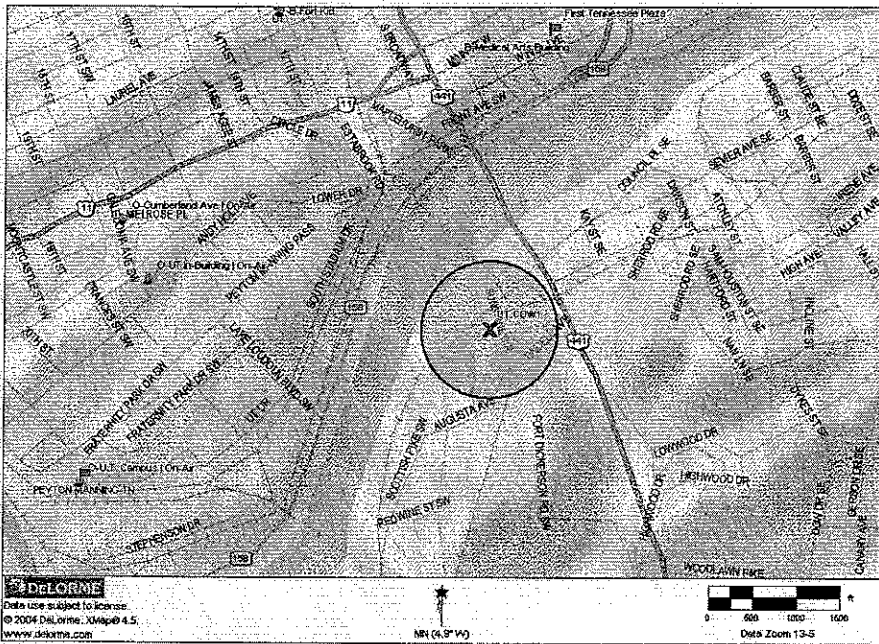


Fig1: UT COW1 search ring area and Existing Facilities.

Erika Helle  
Erika Helle  
RF Design Engineer  
East Tennessee Market

**EXHIBIT 7.  
LAND USE/WIRELESS FACILITIES MATRIX**

	Co-Location	Stealth Structure	Low Monopole Below 90'	Moderate Monopole 90'-150'	Tall Monopole 150'-199'	Lattice Tower	Guyed Tower
<b>Opportunity Areas</b>	Industrial/Business Park						
	Industrial Use						
	Pre-approved Government-owned Property						
	Urban Expressway Corridor						
	Rural/Heavily Wooded						
	Pasture						
	Central Business District						
	Office/Commercial Corridor						
Shopping Center							

<b>Sensitive Areas</b>	Within 500' of a residence						
	Rural Residential						
	Non-residential Properties in a Residential Area (church, cemetery, library, etc.)						
	Multi-family Residential						
	On Hill Below Ridgeline						

<b>Avoidance Areas</b>	Conservation Open Space						
	Scenic Highway						
	Public Park						
	Ridge Top/Ridge Line						
	Scenic Vista						
	Historic District/Site						
	Single-family Residential						
	Vacant Residential Lot						

Encouraged     
  Neutral     
  Discouraged