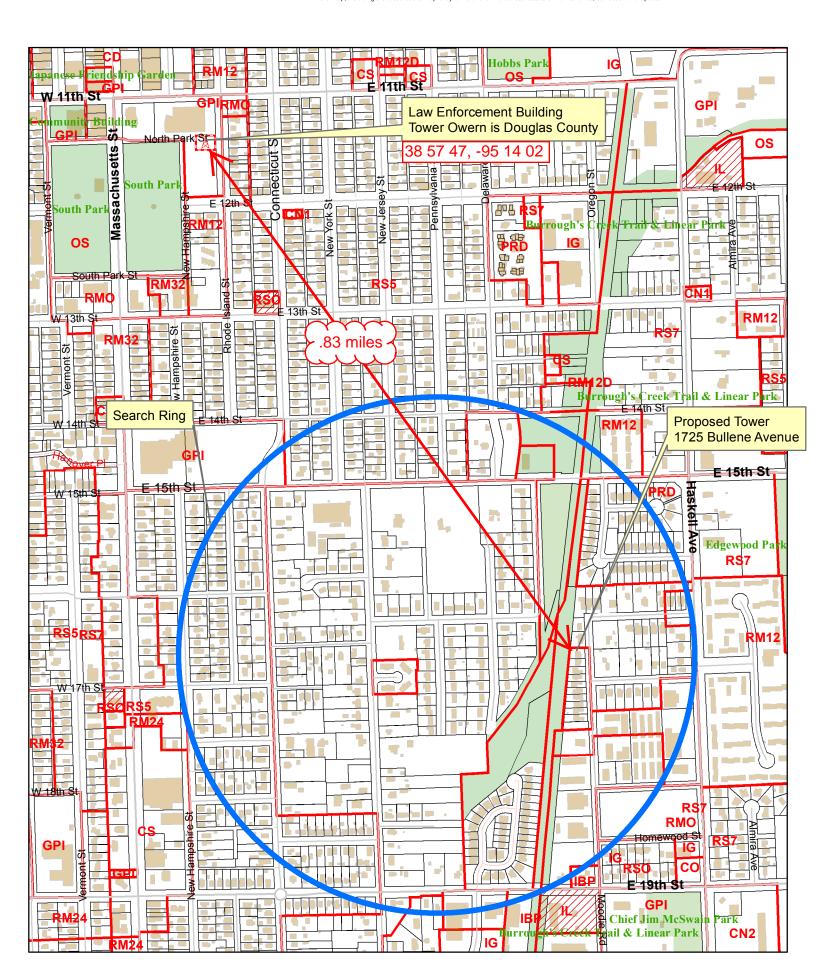


DISCLAIMER NOTICE
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Date: 12/1/2014



## **ASR Registration Search**

## Registration 1240013



**Registration Detail** 

Reg Number1240013StatusConstructedFile NumberA0338796Constructed08/21/2003

EMI No Dismantled

NEPA No

**Antenna Structure** 

Structure Type POLE - Any type of Pole

Location (in NAD83 Coordinates)

Lat/Long 38-57-47.0 N 095-14-02.0 W Address 111 E 11th St

City, State Lawrence , KS

Zip 66044 County DOUGLAS

Center of Position of AM Array Tower in Array

**Heights (meters)** 

Elevation of Site Above Mean Sea Level Overall Height Above Ground (AGL)

61.2 60.7

Overall Height Above Mean Sea Level Overall Height Above Ground w/o

**Appurtenances** 

321.9 60.7 **200ft Monopole** 

**Painting and Lighting Specifications** 

None

**FAA Notification** 

FAA Study 97-ACE-1562-OE FAA Issue Date 12/15/1997

**Owner & Contact Information** 

FRN 0004709218 Owner Entity

Type

**Owner** 

Douglas County Kansas Craig Weinaug
County Administrator

111 E 11th St Lawrence , KS 66044 (785) 832-5268

Contact

Lori Alexander
111 E.11th Interim Director

Lawrence , KS 66044 (785) 330-2861

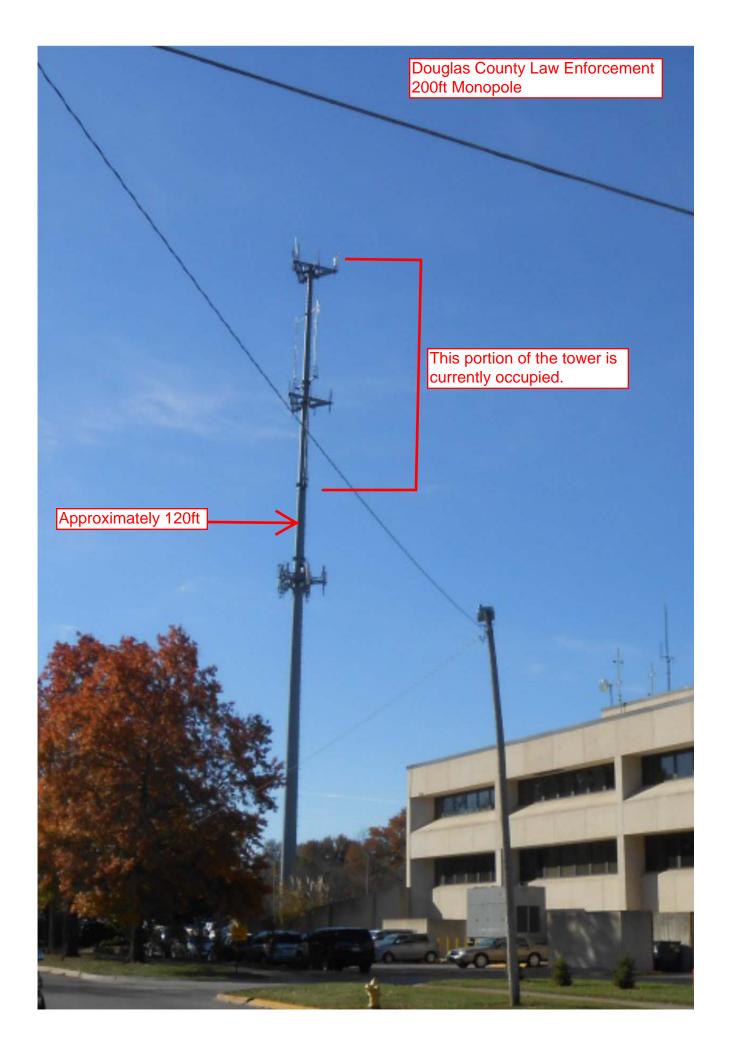
**Last Action Status** 

Status Constructed Received 08/21/2003
Purpose Notification Entered 08/21/2003

Mode Interactive



FCC Reg. No. 1240013 Owner Douglas County, KS 11<sup>th</sup> St. and Rhode Island St





From: Hank Madden – RF Engineer, Verizon Wireless December 8, 2014

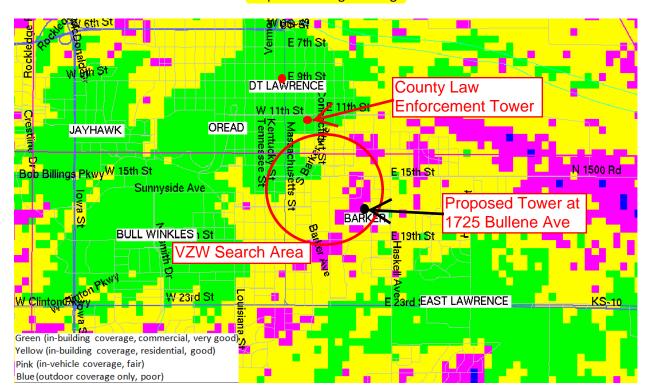
To: The City Representatives

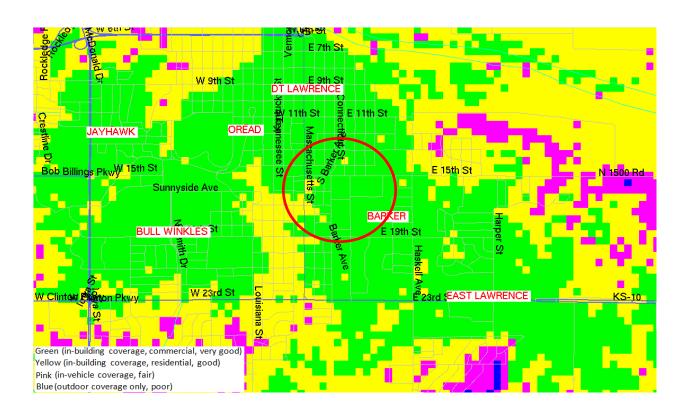
**RE:** Proposed Barker cell site

Dear City Representatives,

Verizon Wireless is proud to serve the greater Lawrence, KS area and we are always diligent to maintain excellent service and improvements. At this time, we are trying to enhance the area of east-central portions of Lawrence, KS where coverage service reliability and capacity must be improved. The area that needs improvement at this time in both capacity and performance is between Massachusetts St and Haskell Ave just north of 19<sup>th</sup> St in east-central Lawrence. The fast growing 4G (LTE) data usage has required us to plan for a new cell site in this area to improve coverage, performance and offload capacity from our existing sites namely DT Lawrence and East Lawrence sites as shown below, Map 1.

## Map 1 – Existing Coverage

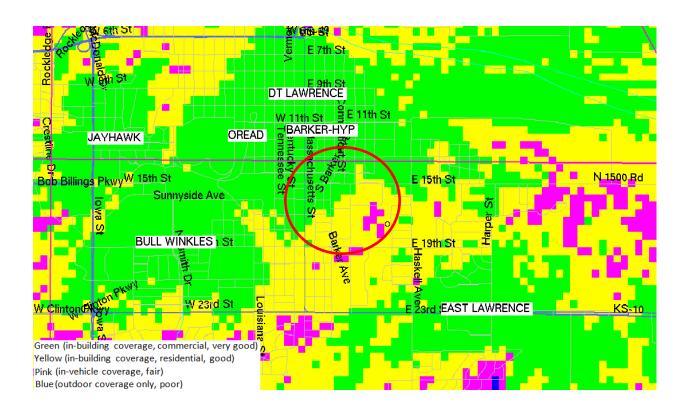




Map 2 – Coverage with the new cell site

As 4G (LTE) data usage continues to increase dramatically as wireless customers utilize their phones for more day to day task and recreation, the demand also increases to meet these needs by creating new opportunities to develop methods of improving coverage, capacity, and data throughput. The most challenging is capacity and data throughput. Verizon Wireless is meeting the expectations of our customers by designing this proposed cell site in the Lawrence area.

This coverage improvement combined with the capacity offload will afford our customers the best possible data performance at the location identified. Verizon Wireless continues to strive to provide the best possible wireless experience for its customers while still recognizing the needs and desires of the surrounding community and being a good neighbor.



Map 3 – Coverage with the new cell site on Douglas County tower

The Douglas County tower location (Barker-HYP) was considered in the analysis; however the proximity of the Douglas County tower is only 0.3 miles from the current VZW location of the DT Lawrence site. Typically, a separation of roughly 1 mile or more is preferred. If sites are closer than 1 mile apart this will cause excessive signal overlap and non-equidistant spacing among the other towers in the area. This could cause inter-signal interference which would result in poor signal quality or data throughput. The Douglas County tower location also does not fully address the coverage null identified earlier between Massachusetts St and Haskell Ave just north of 19<sup>th</sup> St in east-central Lawrence, which is the objective of the proposed site.

Based on these results, the Douglas County tower location is not considered a viable candidate.