



March 29, 2005

David Brazil, Director
Marion County Planning & Zoning Department

RE: Conditional Use Permit for WWC License LLC, a Delaware limited liability company, d/b/a Western Wireless (Cellular One) for proposed wireless telecommunications facility at 825 Highway 56 west of Hillsboro

Dear Mr. Brazil:

It is my department's responsibility to design improvements to our current system to address areas of need, including those in Marion County.

Objectives/Location

The objectives for this site include provision of in-building coverage in the City of Hillsboro and extension of coverage westward on Highway 56 to link up with KS08_McPherson, eastward on Highway 56 to link up with KS08_Marion, northward on Highway 15 and southward on Highway 15 toward KS08_Hesston.

While additional height would assist in some of these objectives the proposed height was designed to comply with FAA regulatory limits given the presence of Alfred Schroeder field to the southeast. While moving the site farther west from the airport would allow a greater height, the change in location would jeopardize the level of in-building coverage in Hillsboro and open a gap with the KS08_Marion site on Highway 56 to the east.

Before and after propagation maps and a tower inventory map are provided to assist in your evaluation of this project.

Design/Site Characteristics

This site will comply with all applicable local, state, and federal regulations and standards including all applicable FAA and FCC requirements

With respect to power, this site will be a 3-sectored site transmitting 57 dBm ERP per sector which is well within FCC standards for radio frequency emissions and industry standards for Nonionizing Electromagnetic Radiation as required by your ordinance. The frequencies utilized by Western Wireless in the 824-835 MHz and 869-880 MHz ranges will not interfere with other providers, public safety communications, radio, or television signals.

Co-location

Western Wireless is committed to accommodation of future co-locators as required by your ordinance. Given the height and integrity of the tower there are numerous locations beneath Western Wireless antennas that could serve future providers of wireless telecommunications, internet, or emergency services.

Lack of Alternatives

There are no alternatives within the necessary geographic area that meet the engineering requirements necessary to accomplish the objectives identified. There is only one existing or approved tower within a 6-mile radius of the proposed location.

The FCC Antenna Structure Registration indicates only one site within a 6-mile radius of the proposed location. This site is a 145' ALLTEL tower located at the north end of Main Street in Hillsboro. The space available below ALLTEL's antennas could possibly meet the Hillsboro in-building coverage objective but would fail to extend the signal far enough to avoid dropped calls in each direction and would require multiple additional locations to meet the objectives that the single proposed tower meets by itself.

Quality wireless communications infrastructure is essential to the economic and personal well being of residential and business users in this area as well travelers on the highways and is a crucial resource in emergencies. Thank you for your consideration of the need for this site location and the benefits it will provide to residents, businesses, and visitors in Marion County.

Sincerely,



Mauro Fraga
Western Wireless
Certifying Radio Frequency Engineer