

**City of Aurora, IL.**

**ZONING SUBMITTAL AFFIDAVIT**

**In Reference to Telecommunication Application Information Required 2-23, Item Number (5) b. through (5) f.**

THIRD PARTY PROFESSIONAL BUSINESS NAME: Communication Infrastructure Corporation

THIRD PARTY PROFESSIONAL NAME & TITLE: James Snyder, President

I, James Snyder, of East Greenwich, in Kent County, Rhode Island, have examined the designs and communication engineering and reviewed the plans and requirements for the development a new tower at 2905 Diehl Road, Aurora, IL 60502 and hereby make the following assessments and statements per the zoning Application requirements as set forth by the City of Aurora, IL. In article III Subsection 19-68:

(5) b. of the Zoning Application Requirement is to provide a Current radio frequency coverage prediction in the area served both prior to and after construction of the proposed communications facility and technical performance goals for the desired signal strength.

Third Party Professional Statement:

The tower's purpose is to provide alternative microwave connectivity to the CyrusOne Data Center. The alternative microwave access will serve as emergency backup for this critical piece of infrastructure that supports commerce, banking, and hundreds of corporate cloud services for the United States economy. The microwave links to the data center from multiple locations act as a backup to fiber services and provide additional security in the event of a natural disaster or force majeure. We have prepared microwave link coverage analysis for multiple links from the tower. See attachment 1. The Zoning application requirement specifically references cellular services, which this tower is not primarily intended to support. However, we have provided a cellular coverage plot to support co-location activity in the event that a wireless operator seeks co-location at this facility. See attachment 2.

(5) c. of the Zoning Application Requirement is to provide drive test results which confirm or refute the areas shown on coverage maps used in planning the system used by the communications provider.

Third Party Professional Statement:

See Third Party professional statement above. The tower's purpose is not to provide cellular services and therefore the preparation of drive test results is not necessary.

(5) d. of the Zoning Application Requirement is to explain the suitability or unsuitability of the use of existing towers, other structures or alternative technology not requiring the use of towers or structures to provide the services to be provided through the use of the proposed new communication facility, including information regarding the number of calls dropped and failed hand-offs between existing facilities within two (2) miles of the city.

Third Party Professional Statement:

The purpose of the new facility is to provide microwave communications directly to the data center in the most direct manner possible, which is why this location is a critical location to the network requirement. Other towers in the area are not as close to the data center building and therefore do not meet the technical requirements of the network for a backup system. Additionally, the construction of this tower will eliminate the need for additional structures in the area that are proposed to access the data center via wireless transmission. Co-location of this tower will be made available to all other third parties wishing to install facilities in the area and therefore will eliminate the need for other tower and pole structures.

Because this is microwave specific technology, other technology options do not meet the technical requirements. The tower's purpose is not to provide cellular services, therefore a statement describing the number of dropped calls and failed hand-offs between existing facilities within two (2) miles of the city is not necessary.

(5) e. of the Zoning Application Requirement is to prepare a description of the feasible location(s) of future towers, poles or antennas within the city based upon existing physical, engineering, technological or geographical limitations in the event the proposed tower is erected.

Third Party Professional Statement:

We do not see the need for any future towers within the City limits that will serve or support this requirement. If the proposed tower is erected, this will eliminate the need for any future towers being constructed in the area for the purpose of connectivity backup for the CyrusOne Data Center. There are currently other towers and poles being proposed in the area. These towers and poles will not be needed if the proposed tower is constructed.

(5) e. of the Zoning Application Requirement is to prepare a written statement from an engineer(s) that the construction and placement of the telecommunications facility, tower or antenna will not interfere with public safety communications and the usual and customary transmission or reception of radio, television or other communications services enjoyed by adjacent residential and nonresidential properties.

Third Party Professional Statement:

The Construction and placement of this tower and the communication systems will in no way interfere with or cause damage to nor will it be interfered by public safety communications and the usual and customary transmission or reception of radio, television or other communications services enjoyed by adjacent residential and nonresidential properties. It is possible that the construction of this tower could enhance the public safety system by enabling police and public safety services alternative/backup communications to their networks.

STATE OF Virginia

COUNTY OF: James City

SUBSCRIBED AND SWORN TO BEFORE ME,  
on the 5th day of January, 2017

Signature Joni Jovette Wright  
(Seal)

NOTARY PUBLIC

My Commission expires:  
06/30/2020

James M Snyder

(Signature)

James Snyder

President, Communication Infrastructure Corporation





# MICROWAVE LINKS

**Legend**

 PATHS





# RF CELULAR COVERAGE

## Legend

