



Cellular Enhancement PROJECTS



Texas School District (CTPA Member)



Central Texas



In 2019, an Independent School District in Texas requested a specific technology introduced by a manufacturer (Cel-Fi by Nextivity) that had not yet been installed in the United States. Wytec was introduced to the

District due to its previous successful installations with earlier versions of the manufacturer’s technology. Wytec was selected in a bidding process that included five others.

The District, a member of the Central Texas Purchasing Alliance, was seeking the latest Cel-Fi by Nextivity QUATRA 4000 system, which is an ever-green solution. The system would enhance voice and data for all four primary US mobile carriers and be FCC compliant for “network safe” cellular boosters. The ISD required (and Wytec supplied) support indoor broadcast units that could be located up to 600 feet away from network units/ amplifiers, have a spherical broadcast pattern, and be self-configuring and self-optimizing. The installation by Wytec began with a pilot of three project of schools and is continuing with the addition of more schools.

Results

Nearing completion of the pilot project, results are positive. The District is happy with the improvements in the impacted schools and has decided to expand to further schools. Due to the accepted purchasing process within in this project, Wytec is now qualified to offer “no-bid-process” to all CTPA members.

NASA – Johnson Space Center



Houston, Texas



Houston’s Johnson Space Center faced a problem that many companies face. Many buildings on campus had issues with cellular coverage. Employees, contractors and visitors complained about the

coverage issues and were unable to complete their work due to poor cellular coverage. As a result, NASA submitted bids for a cellular enhancement solution.

NASA elected to install Cel-Fi by Nextivity QUATRA 2000 systems in select buildings throughout the campus. Wytec’s cellular enhancement solution improved cellular services on all four US carriers in the desired areas of the NASA JSC complex. While each project was completed separately, Wytec was selected each time based on the technical requirements and as the best cost option for the government.

Results

Cellular signals have been vastly improved in all buildings completed to date. Work continues at several additional buildings, and all installed systems are monitored daily, with software updates automatically downloaded as they become available. Any hardware issues are reported through the Cel-Fi Wave Portal and notifications are made to the Wytec Network Operations Center. Typically, most issues are resolved prior to anyone at JSC noticing.

UMB Bank Technology Center



Kansas City, Missouri



In a time when mobile devices connect us to the world, feeling restricted by the bounds of your mobile device's coverage can be frustrating and worrisome. When UMB Bank Technology Center

employees moved into their new building in Downtown Kansas City, MO, they quickly learned they were unable to use their mobile devices inside the new building. This caused missed calls, drained mobile phone batteries and many other issues for the staff in the building.

UMB determined the best way to relieve this anxiety and potential safety concern for its employees, was to install a cellular enhancement solution. They chose to install Cel-Fi by Nextivity QUATRA 2000 systems throughout the building to improve cellular coverage for all four US carriers. Wytec was chosen by UMB to deliver the solution.

Results

While the downtown Kansas City cellular signal environment is very complex with many different cellular signals visible from the roof top of the building, the Cel-Fi technology can isolate the signals and deliver a consistent signal in the occupied space. This allows mobile devices to work as they should, but more importantly, the UMB employees are reconnected to their lives outside the office.

Fountain Place



Dallas, Texas



An underground parking garage at Fountain Place, a 58-story building in Dallas, Texas, had no cellular coverage. This presented multiple issues to the tenants including dropped

and missed calls. The building owner, inundated with complaints, needed a solution to the problem.

Fountain Place (Goddard Investment Group) selected Wytec's service and installation of Cel-Fi by Nextivity QUATRA 2000 systems throughout the three underground parking and service levels to improve cellular coverage. The solution enhanced cellular coverage for all four US carriers.

Results

The cellular enhancement solution for Fountain Place is extremely complex. There are twelve QUATRA 2000 Network Units providing services for the four carriers. While tenants are now able to make calls from the garage, Wytec will continue to work with GIG to refine this system, which may include a migration to an LPN-16 small cell solution.

“...Wytec, in a fraction of the time, was able to engineer, deploy and commission a cost effective result addressing a total coverage solution with all four major carriers. I highly recommend their professional capabilities.”

– Ben M. Fountain Place

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