#### State of Florida

Telecommunications Site Review Florida Collocation Version



7050 West Palmetto Park Road Boca Raton, FL 33433 Tel: 561-558-2808 Fax: 877-220-0843

April 13, 2014

Mr. W. Scott Stoudenmire City of Coconut Creek Deputy Director Department of Sustainable Development 4800 West Copans Road Coconut Creek, Florida 33063

RE: AT&T Mobility Upgrade, Site FL-71 5555 Regency Lakes Boulevard

Dear Mr. Stoudenmire,

At your request, on behalf of the City of Coconut Creek, Florida (City), CityScape Consultants, Inc. (CityScape), in its capacity as telecommunications consultant for the City, has considered the merits of an application submitted by AT&T Mobility (AT&T or Applicant), to make certain modifications to their existing wireless system on a 120-foot monopole communications tower facility (aka Regency Lakeside Park), see *figure 1 and Exhibit A*. The Applicant is in the process of modifying their equipment to upgrade wireless services for fourth generation (4G) capability, which is currently being launched in South Florida. The site is owned by the City of Coconut Creek and is located at 5555 Regency Lakes Boulevard in Coconut Creek, Florida, see *figure 2*.

There are two considerations for this modification/collocation request. First, under the Space Lease Agreement dated April 8, 1999, between the City of Coconut Creek and AT&T Wireless Services, of Florida, Inc., paragraph 4.03, provides that the Applicant has the authority to make the proposed modifications with written approval from the City. Second, the modifications must meet the requirements of the City's ordinance, including structural compatibility and compliance with state and federal codes.

AT&T has proposed to replace all nine (9) of the existing panel antennas with nine (9) new upgraded models and relocate six (6) existing remote radio heads (RRU's) and add six (6) additional RRU's. The Applicant is shifting their platform alignment approximately – 10 degrees. In addition, the Applicant proposes to add nine (9) various DC power and fiber cables, see *figure 3*. AT&T will install a new service to support its electronic base station equipment, which will be located within the Applicant's existing ground shelter, see *figure 4*.



## Telecommunications Site Review Florida Equipment Upgrade

All proposed designs and plans for the proposed new facilities were developed according to accepted practices of Radio Frequency (RF) propagation engineering and the persons completing the work is sufficiently qualified within their disciplines. The Applicant supplied a letter of compliance with all Federal Communications Commission (FCC) standards regarding human exposure to RF energy, and further testified that the Applicant will comply with all aspects of FCC rules regarding interference, see *figure 5*. The changes in the tower loading was analyzed and found the new tower stress to 74.9% out of a maximum of 105% allowable, see *figure 6*.

CityScape representatives have visited the Regency Lakeside tower site on numerous occasions and have determined all necessary requirements can be accommodated within the existing Applicant's leased space and property limits. The site has been designed and constructed by professionals with expertise in telecommunications site design and the construction drawings submitted on behalf of the Applicant confirms a continuation of that practice of the expertise and skill of maximizing the use of telecommunications facilities. This practice corresponds with the desires of the City of Coconut Creek. There are no changes in the tower or expansion of the existing ground compound, thus the Applicant is qualified under the Tax Relief and Job Creation Act of 2012 for streamlined processing.

Based upon the submitted information by Applicant, and the analysis represented above, CityScape has determined that this application will meet the requirements set forth in the Coconut Creek Ordinance, State of Florida, and the Telecommunications Act of 1996.

Therefore, this application is recommended for approval with the following conditions:

- 1. All of AT&T's feed lines shall be installed inside the monopole shaft; and,
- 2. The facility shall be secured to prevent access by unauthorized personnel; and
- 3. All access ports shall be sealed to prevent access by birds and other wildlife.

Respectfully submitted,

Richard L. Edwards

FCC Licensed PCIA Certified

CityScape Consultants, Inc.



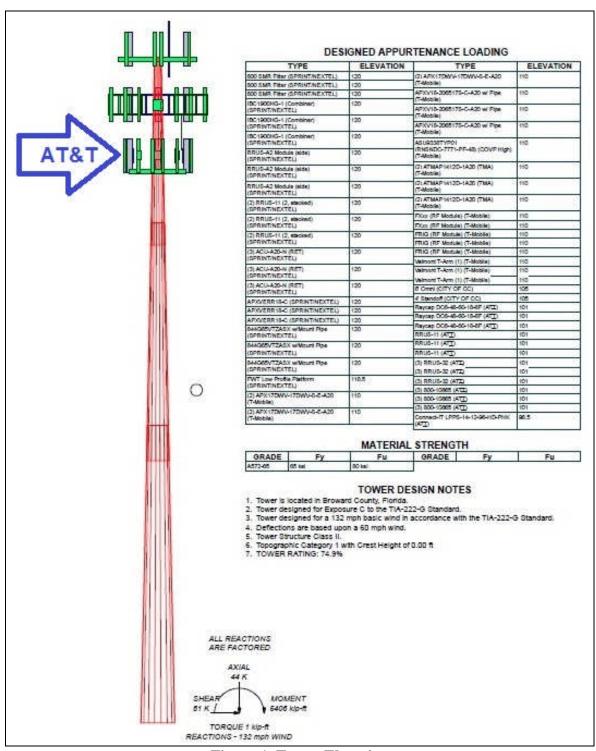


Figure 1. Tower Elevation



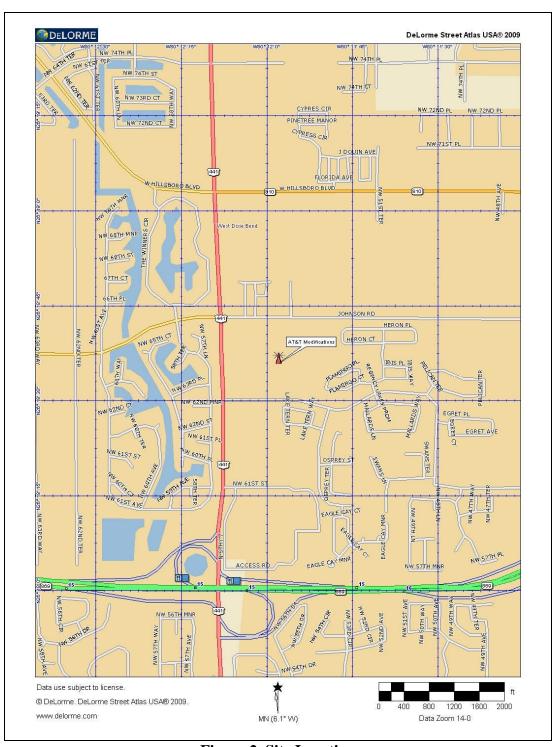


Figure 2. Site Location



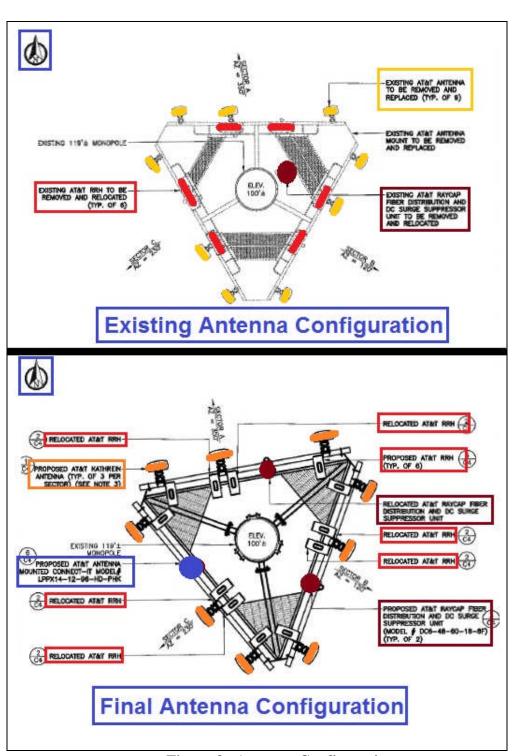


Figure 3. Antenna Configuration



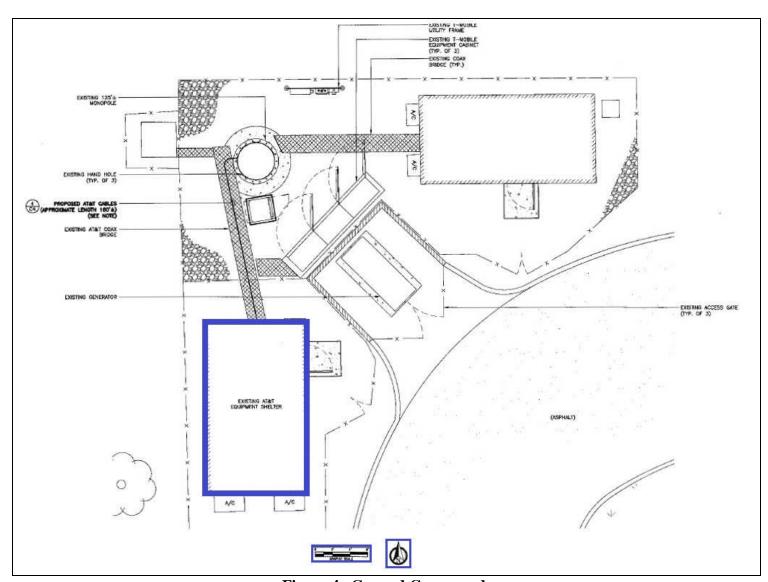


Figure 4. Ground Compound



## Telecommunications Site Review Florida Equipment Upgrade



AT&T Mobility 5201 Congress Avenue Boca Raton, FL 33487

Date: April 9, 2014

To whom it may concern

Re: Project Name: FL71

Project Location: 5555 Regency Lakes Blvd Coconut Creek, FL 33073

To whom it may concern:

This letter responds to your request for information about the at&t Mobility antenna facility to be located at \_\_5555 Reqency Lakes Blvd, Coconut Creek, FL\_ and its potential to interfere with communication facilities located nearby as well as the FCC rules governing the human exposure to radio frequency energy (OET 65 guidelines). At&t Mobility shall comply with all FCC rules regarding interference to other radio services and at&t Mobility shall comply with all FCC rules regarding human exposure to radio frequency energy.

Cellular radio signals are transmitted on exclusively assigned channels within the 700,800,1900 and 2100 MHz frequency band. The Federal Communications Commission (FCC) has allocated these frequencies exclusively for use by cellular service providers. Each cellular service provider is assigned specific frequencies (channels) on which to transmit and receive radio signals.

Cellular transmitters must be type-accepted by the FCC to ensure compliance with technical standards that limit the frequencies, output power, radio frequency emissions, spurious radio noise, and other technical parameters. Cellular licensees like at&t Mobility owns are required to use type-accepted equipment. The assignment of frequencies and FCC rules keep cellular radio signals from interfering with or being interfered with by other radio transmissions and provide guidelines outlining the limits for permissible human RF exposure. In the event of a complaint of interference or other concerns about cellular antenna facilities, the FCC has a resolution process to determine the source of interference and whether a facility is in compliance with FCC rules.

In summary as stated above in the first paragraph AT&T Mobility shall comply with all FCC rules regarding interference to other radio services and AT&T Mobility shall comply with all FCC rules regarding human exposure to radio frequency energy.

I hope that this information is responsive to your concerns. Please let me know if I can be of further service.

Very truly yours,

Douald Pittman

Donald Pittman RF Engineer AT&T Mobility

Figure 5. Compliance with FCC Rules



#### Telecommunications Site Review Florida Equipment Upgrade



December 16, 2013

Dennis Demarco MasTec Network Solutions, LLC 6100 Broken Sound Parkway, Suite 6 Boca Raton, FL 33487 Telecom

CALTROP Corporation 3400 Lakeside Drive, Suite 525 Miramar, FL 33027 (954) 874-7870

Subject: Rigorous Structural Analysis Report

Carrier Designation: AT&T: FL71 CALTROP Project Number: 130-729.03

Site Information: 5555 Regency Lakes Boulevard

Coconut Creek, Broward County, FL 33073 Latitude 26.310034°N, Longitude 80.199431°W

118.5' Monopole Tower

Dear Mr. Demarco:

CALTROP Corporation (CALTROP) is pleased to submit this Rigorous Structural Analysis Report to determine if the subject tower is able to support certain proposed additional loads.

It is our understanding that AT&T, who retained MasTec Network Solutions, LLC (MNS), desires to install new telecommunication equipment on the subject tower. This analysis was based on the supporting information listed in Table 3.0. Our services were performed in accordance with the terms and conditions of the existing field services agreement between CALTROP and MNS. This report summarizes the results of our findings.

The purpose of this analysis is to determine the suitability of the aforementioned tower to support the londing indicated in Table 2.2. This analysis has been performed in accordance with the TIA-222-G standard, based upon a nominal 3-second gust reference wind speed of 132 mph with no ice. Based on our analysis, subject to the assumptions noted, it is our opinion that the tower superstructure and the foundation system can adequately resist the proposed loading, subject to the assumptions noted, without modification.

Tower: Pass at 74.9%, Foundation: Pass at 71.3%

This report has been prepared for the purpose of providing a structural evaluation of the subject telecommunications tower for the loading conditions indicated. It is intended for the exclusive use of AT&T and MNS. The information, assumptions, and recommendations contained in this report should not be used by others for any purpose without express written authorization from CALTROP. We appreciate the opportunity to provide our professional services to you and look forward to continuing our relationship. If we can be of any further assistance, please do not hesitate to call.

Sincerely,

CALTROP CORPORATION

Dully M. Amaya, E.I. Junior Project Engineer

Registered, Florida 100800943

Michael A. Phillips, P.E. Principal Engineer Registered, Florida 68312

December 16, 201

CALTROP Corporation 3400 Lakenide Drive, Suite 525 Mramar, Florida 33027

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Figure 6. Structural Analysis





Exhibit A. Facility