

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*.

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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.

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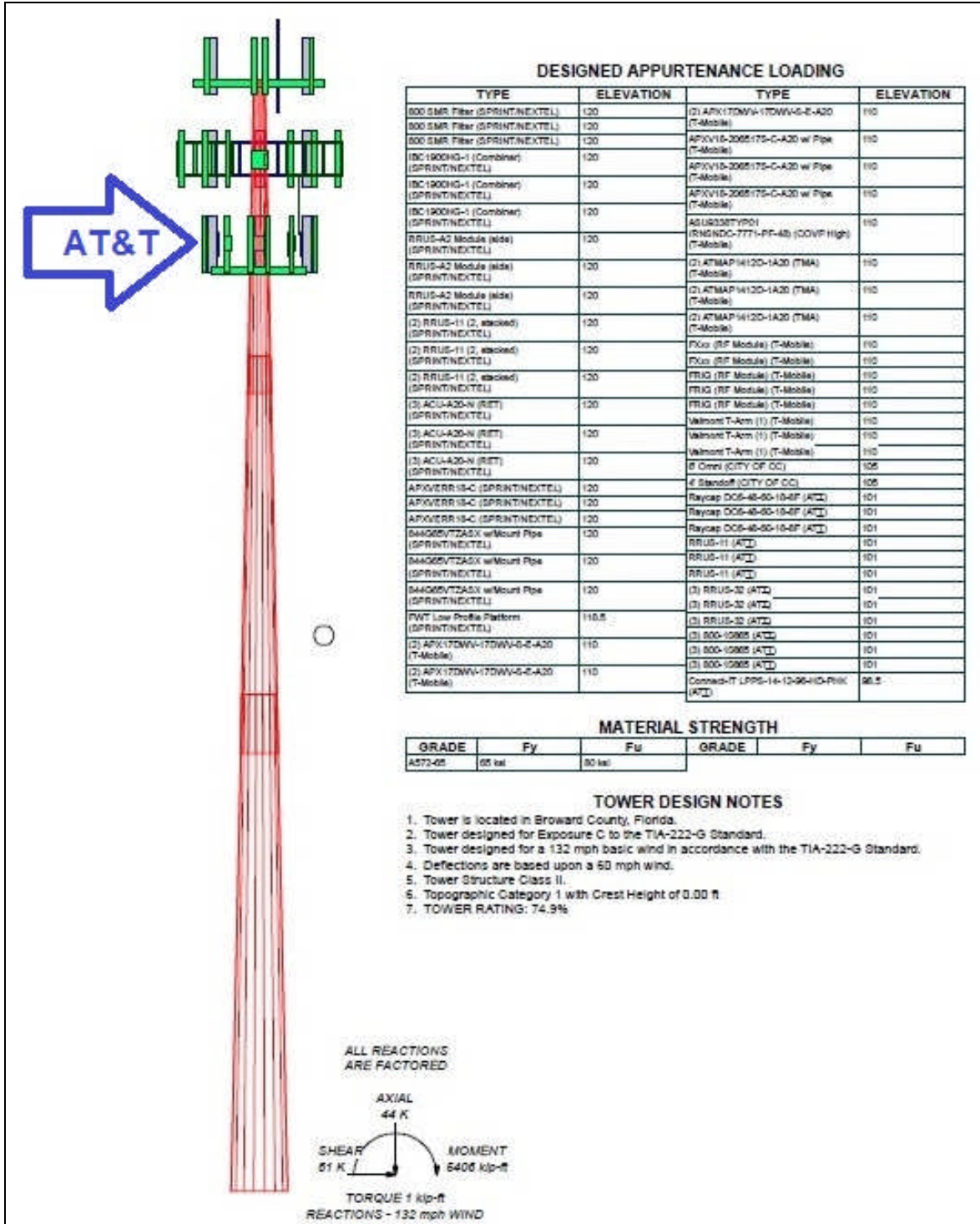


Figure 1. Tower Elevation

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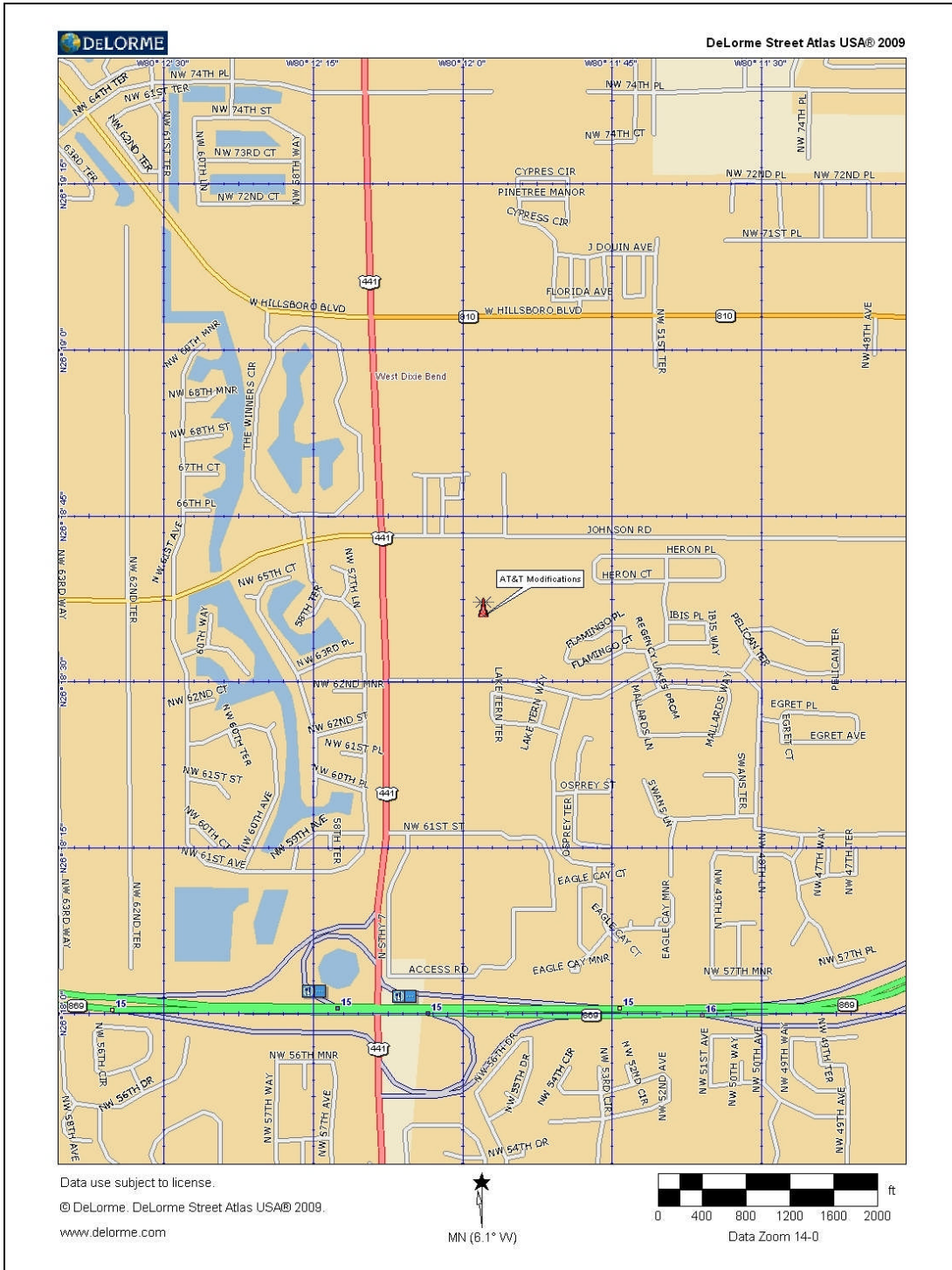


Figure 2. Site Location

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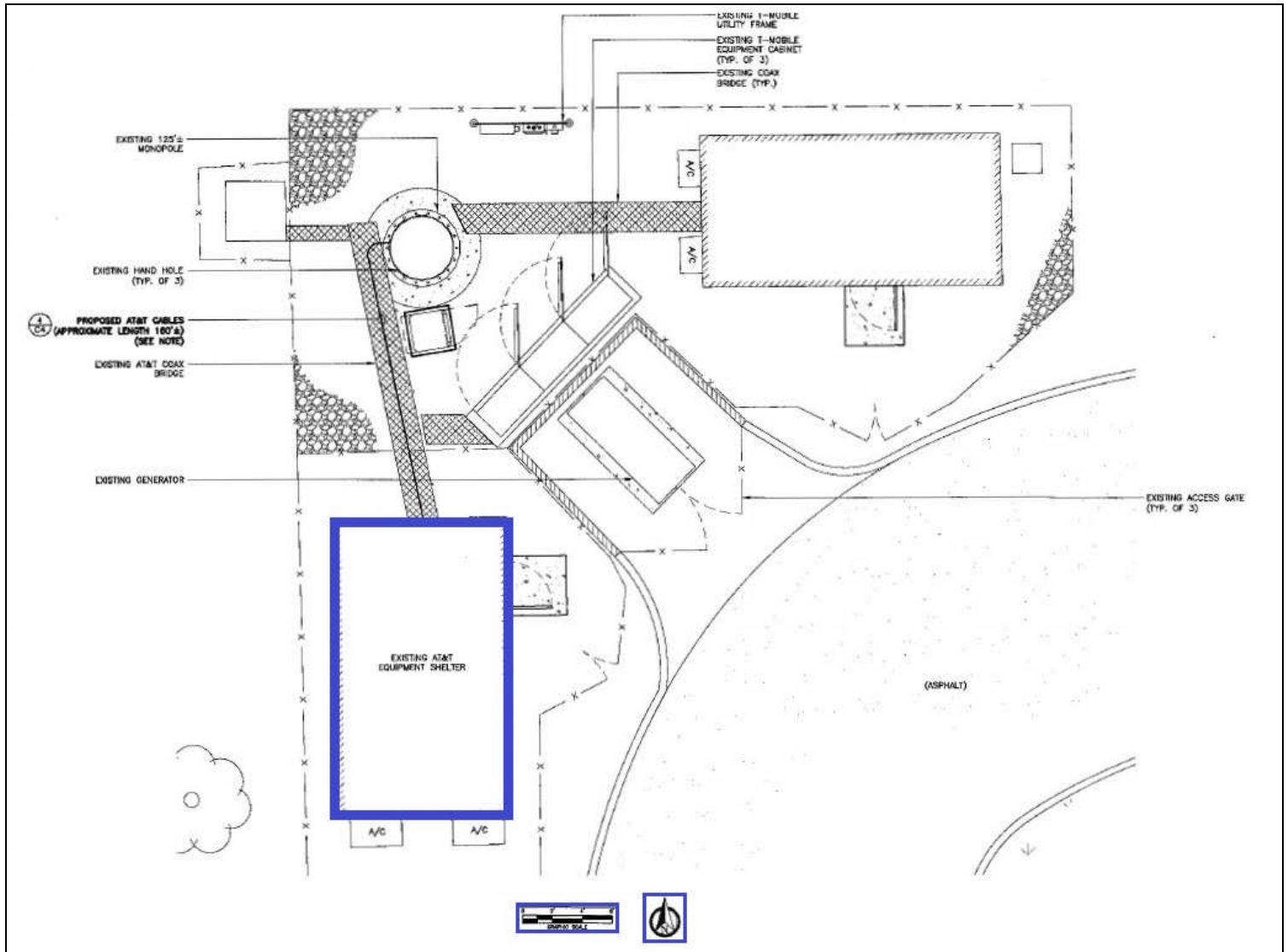


Figure 4. Ground Compound

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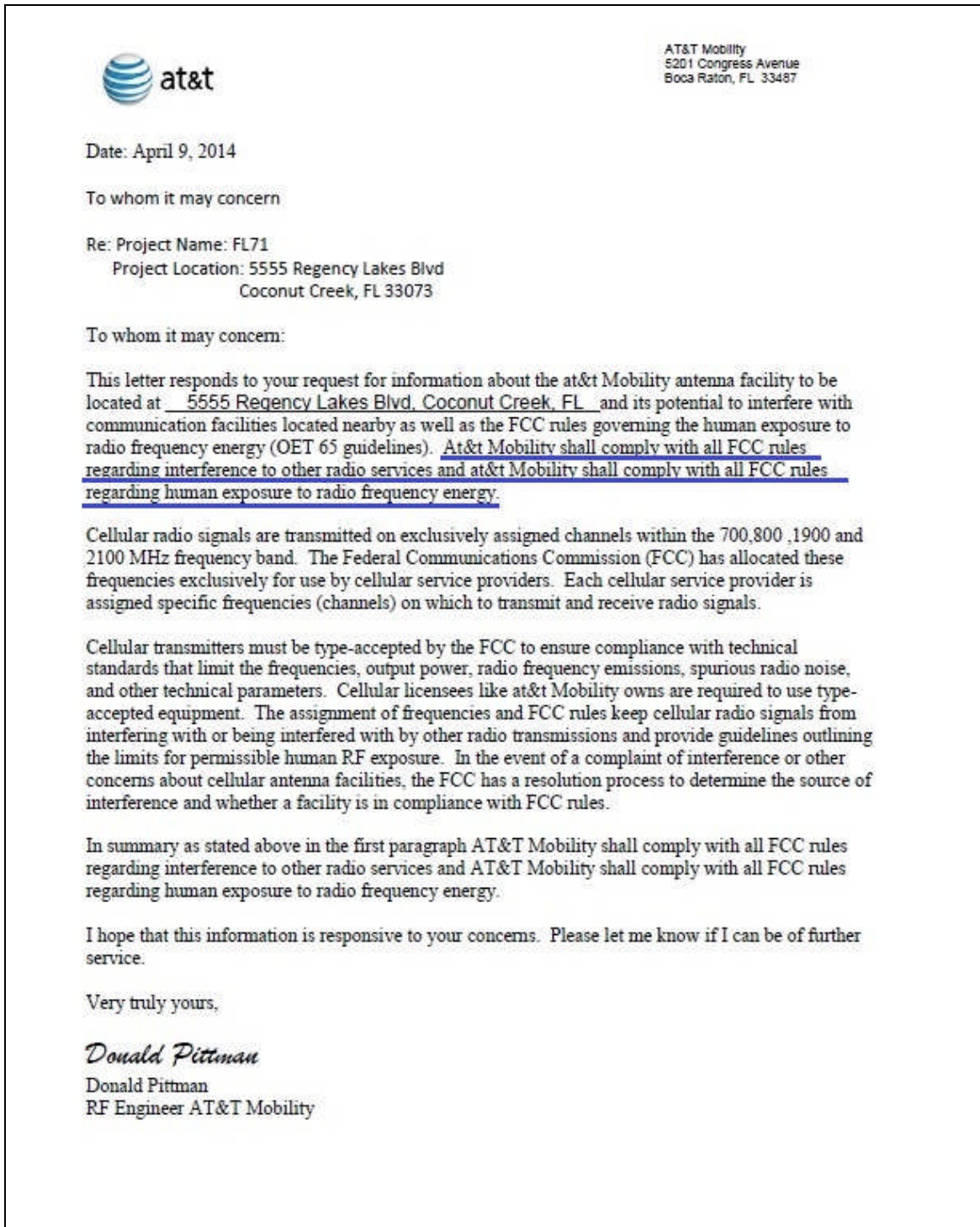


Figure 5. Compliance with FCC Rules

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December 16, 2013

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

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

Subject:	Rigorous Structural Analysis Report
Carrier Designation:	AT&T: FL71
CAL TROP 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:

CAL TROP Corporation (CAL TROP) 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 CAL TROP 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 loading 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 CAL TROP. 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,

CAL TROP CORPORATION
Dully M. Amaya, E.I.
Junior Project Engineer
Registered, Florida 100800943

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

CAL TROP Corporation
3400 Lakeside Drive, Suite 525
Miramar, Florida 33027

www.caltrpp.com
P: 954.874.7870
F: 954.874.7868

Figure 6. Structural Analysis

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Exhibit A. Facility