

**State of Florida  
Telecommunications Site Review  
Upgrade Version**



**Consultants, Inc.**

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Boca Raton, FL 33433  
Tel: 954.609.9797 Fax: 954.757-9994

June 12, 2015

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

**RE : Verizon Wireless Application  
Verizon Site #61005 – 4001 Lyons Road  
FP&L Transmission Pole**

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 to upgrade service provided by Verizon Wireless (“Applicant”) to make certain modifications and adjustments to an existing and operational facility mounted on a Florida Power & Light (FP&L) high tension transmission power distribution pole. The site is on an easement owned by Johns Family Partners LLLP and utilized by FP&L. The site is located at 4001 Lyons Road in Coconut Creek, Florida 33063, see *figure 1*.

The Applicant replaced the existing high tension power transmission pole with a similar but new and sturdier structure in 2013 to support the Applicant’s base station equipment and generator mounted on an elevated platform 8.75 feet above ground and new top mounted antennas; see *figure 2*.

The proposed modifications will not make substantial changes in the Applicant’s wireless service area nor will it have reasonable improvement in any over-capacity problems, but will add the potential for high speed wireless broadband or fourth generation (4G) technologies with the addition of Long Term Evolution (LTE) and Advance Wireless Service (AWS). Verizon has advised CityScape they are discontinuing second generation (2G) operations and all new facilities are intended to function for advancing technologies (Smartphones and like devices) only. That means that most former “flip phones” will be phased out.

**Support Structure & Equipment**

The Applicant will continue the use of nine (9) total antennas. All antennas will be upgraded to wide band antennas: six (6) of the antennas will be combination LTE/AWS and three (3) will be only LTE. The final antenna configuration is shown in *figure 3*. The new antennas will cover multiple frequencies in the range of 700 MHz (for LTE); 850 MHz (for cellular), up to 1750 MHz (for PCS) and 2300 MHz (new AWS). The Applicant will use ground based Remote Radio Units (RRU) to be mounted on the existing equipment unistrut railing. The remainder of the system will consist of diplexers for the fiber-optics and lightning protection equipment. The Applicant will use 24 (each) 0.875” feed line installed inside the pole, see *figure 4*.

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**Telecommunications Site Review  
Coconut Creek, Florida**

All designs and plans for the proposed new facilities were developed according to accepted practices of Radio Frequency (RF) propagation engineering and the persons completing all work are sufficiently qualified within their disciplines. The referenced facility and structure has been designed and constructed by professionals with expertise in telecommunications site design and construction. Based on the 2013 improvements to the pole, a copy of the original structural drawing, dated September 14, 2012, and prepared by a Registered Professional Engineer, shows full disclosure and design of the proposed pole and reflects more equipment than will actually be mounted on the structure, see *figure 5*.

CityScape has visited the site and communicated with the Applicant on numerous occasions. The Applicant has attempted to better conceal the facility following those discussions and shall further attempt to improve on concealment efforts with future upgrades.

Compliance

The subject site will operate in the 700, 850, 1750 and 2300 MHz spectrum which means there could be an interference concern to public safety operations and therefore the Applicant currently has on file a required letter of compliance (January 30, 2013) with all FCC standards regarding RF interference with other radio services and human exposure to RF energy and exposure limits; see *figure 6*.

Wireless applications, other than new support structures are governed under the Middle Class Tax Relief and Job Creation Act of 2012 ("The Act") if they qualify and shall be afforded streamlined processing. A qualified application under The Act cannot require excavation outside of the ground compound, cannot increase the height or girth of the support structure more than 10% or twenty (20) feet whichever is greater, and cannot add more than two (2) electronic cabinets to their ground equipment. Since the Applicant will not be increasing the height or girth of tower, modifying the compound, nor adding additional electronic cabinets this application is qualified for streamlined processing under The Act.

Recommendation

The submitted application conforms to the requirements of the City Ordinance, state and federal standards. Therefore, it is CityScape's recommendation that the City approve the application with the following conditions:

1. All of the Applicant's feed lines shall be remain installed inside the pole;
2. All access ports shall be sealed to prevent access by birds or other wildlife;
3. The Applicant shall continue to improve the concealment cover surrounding the electronic equipment at the base of the pole.

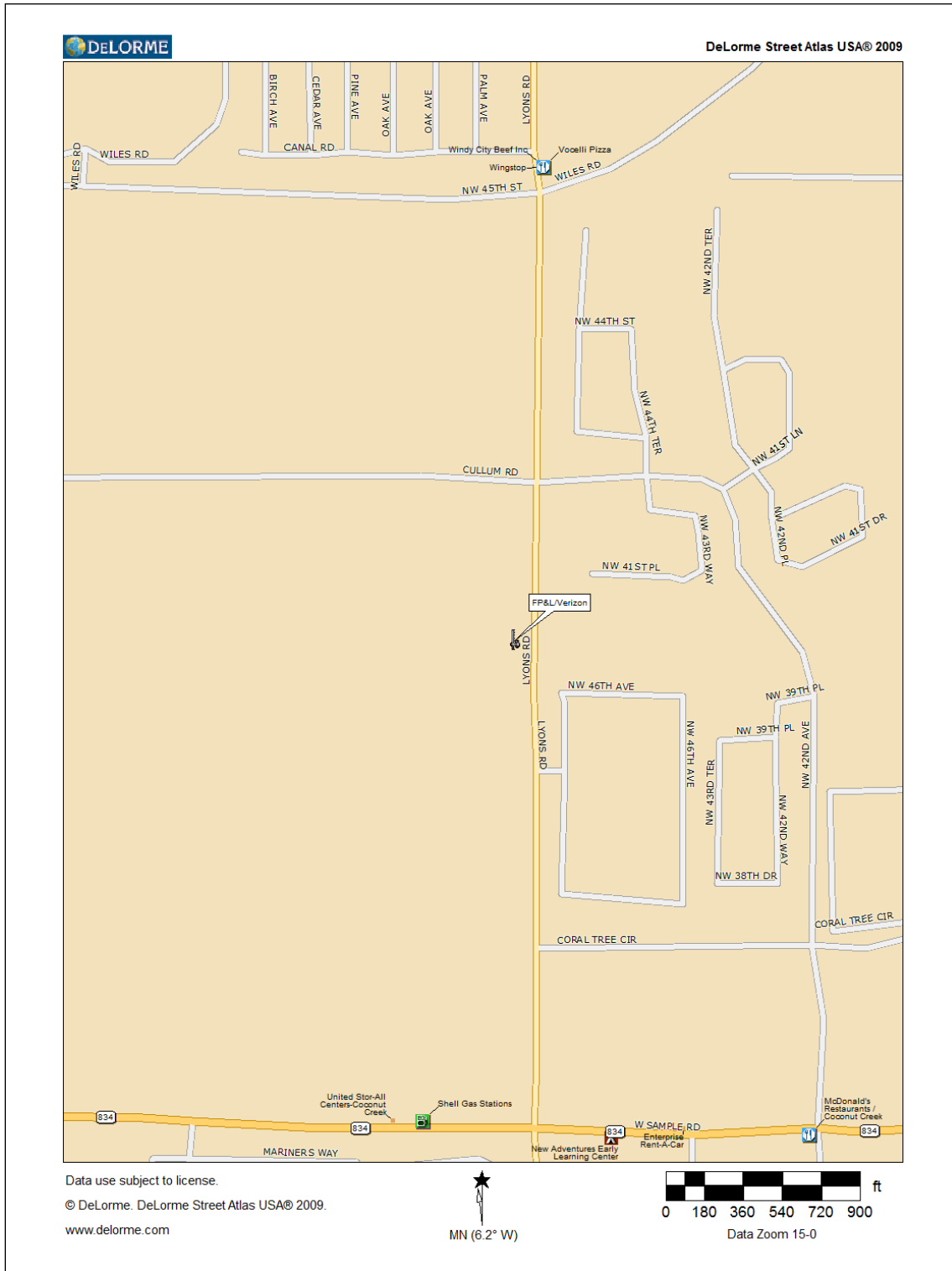
Respectfully submitted,



Richard L. Edwards  
FCC Licensed  
PCIA Certified  
CityScape Consultants, Inc.

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## Telecommunications Site Review Coconut Creek, Florida



**Figure 1. Site Location**

Telecommunications Site Review  
 Coconut Creek, Florida

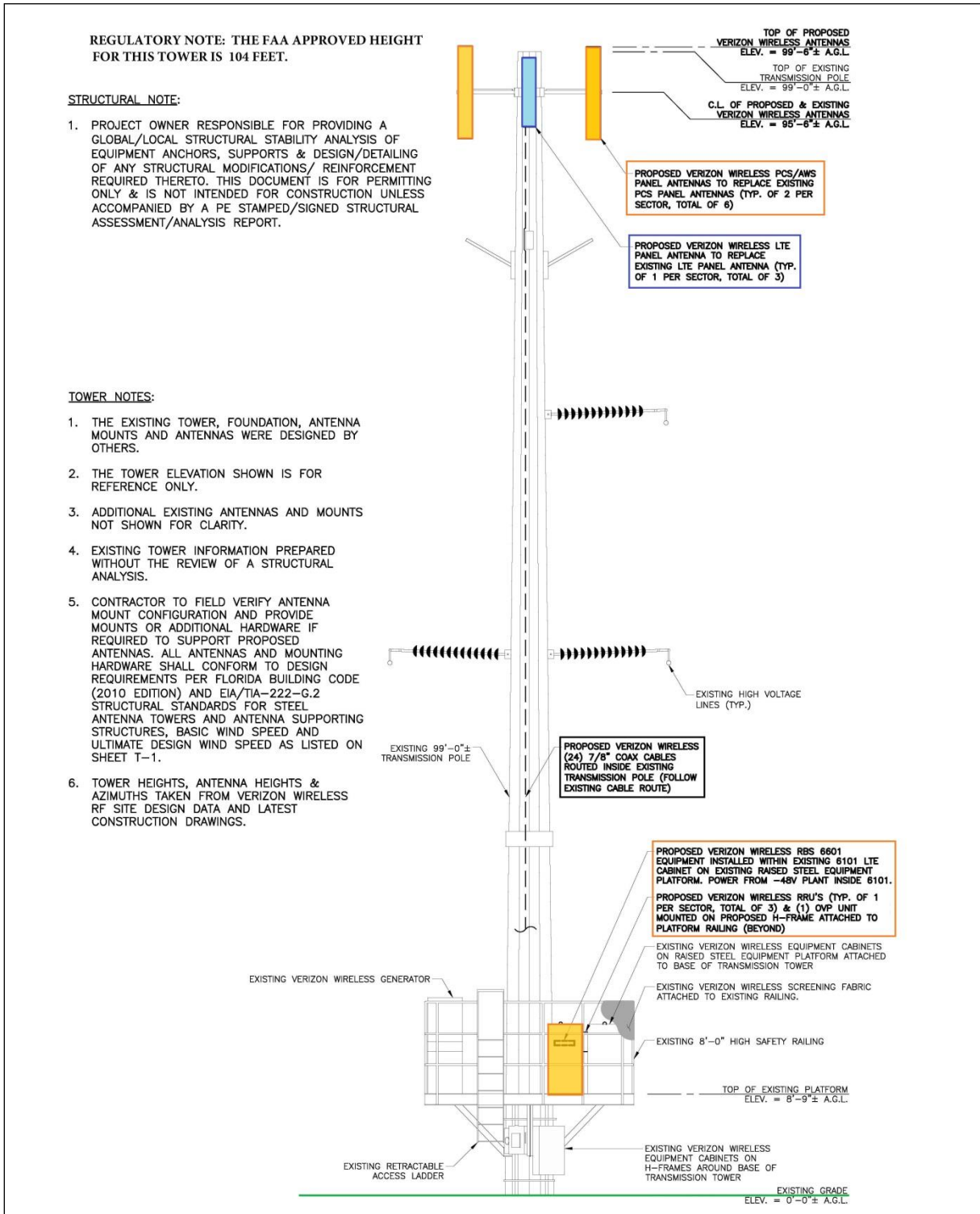
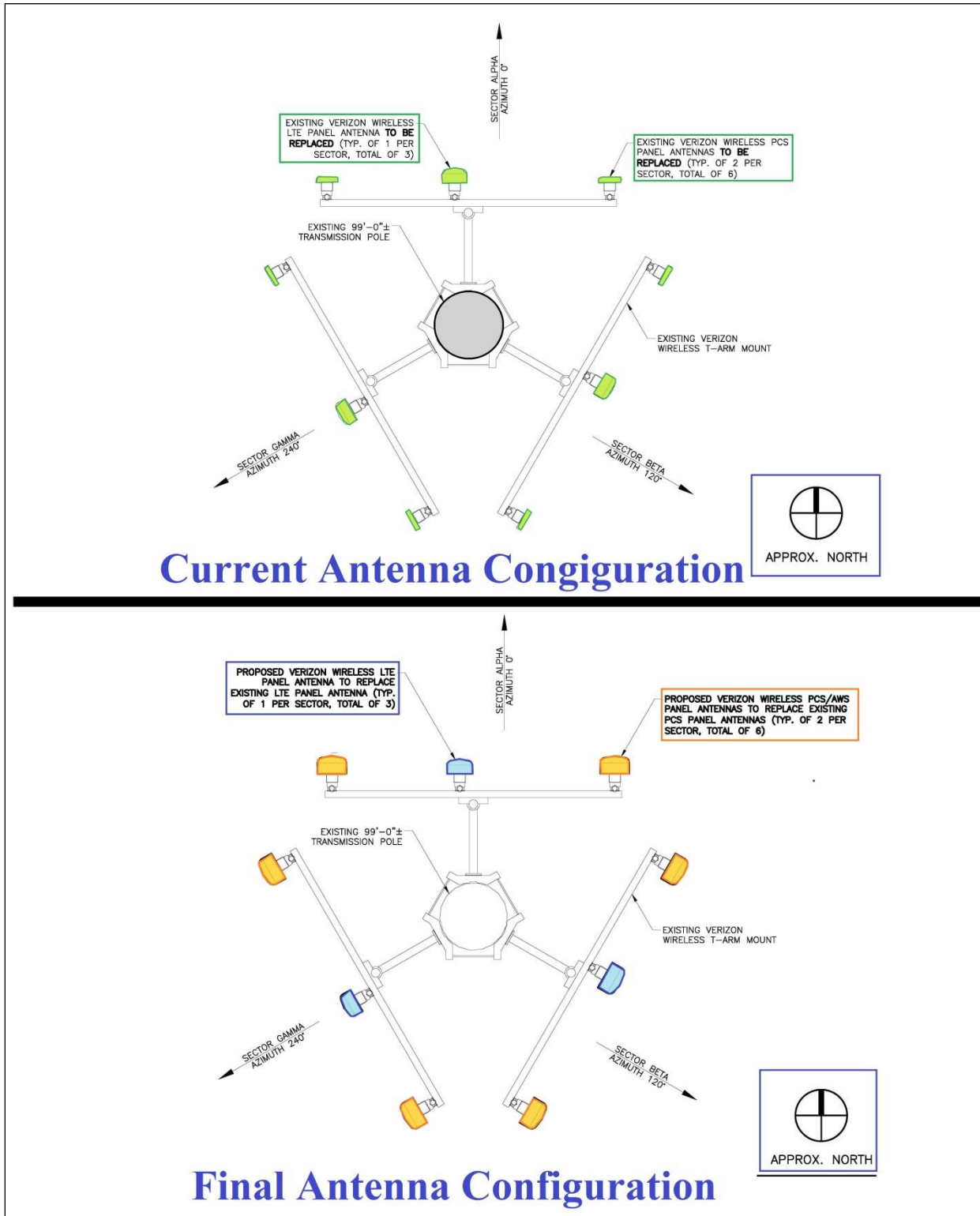


Figure 2. Transmission Pole Elevation



**Figure 3. Antenna Configuration**

Telecommunications Site Review  
 Coconut Creek, Florida

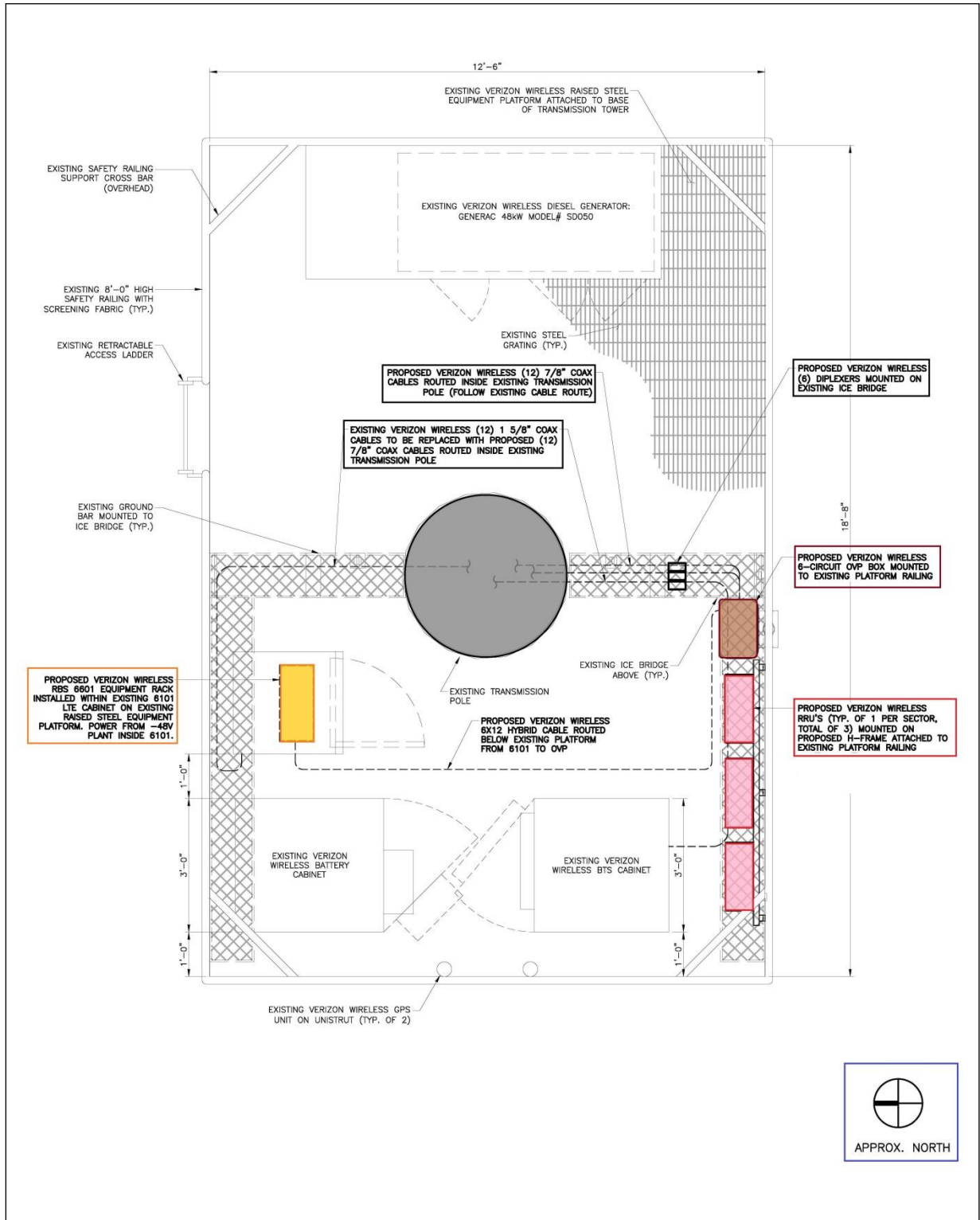
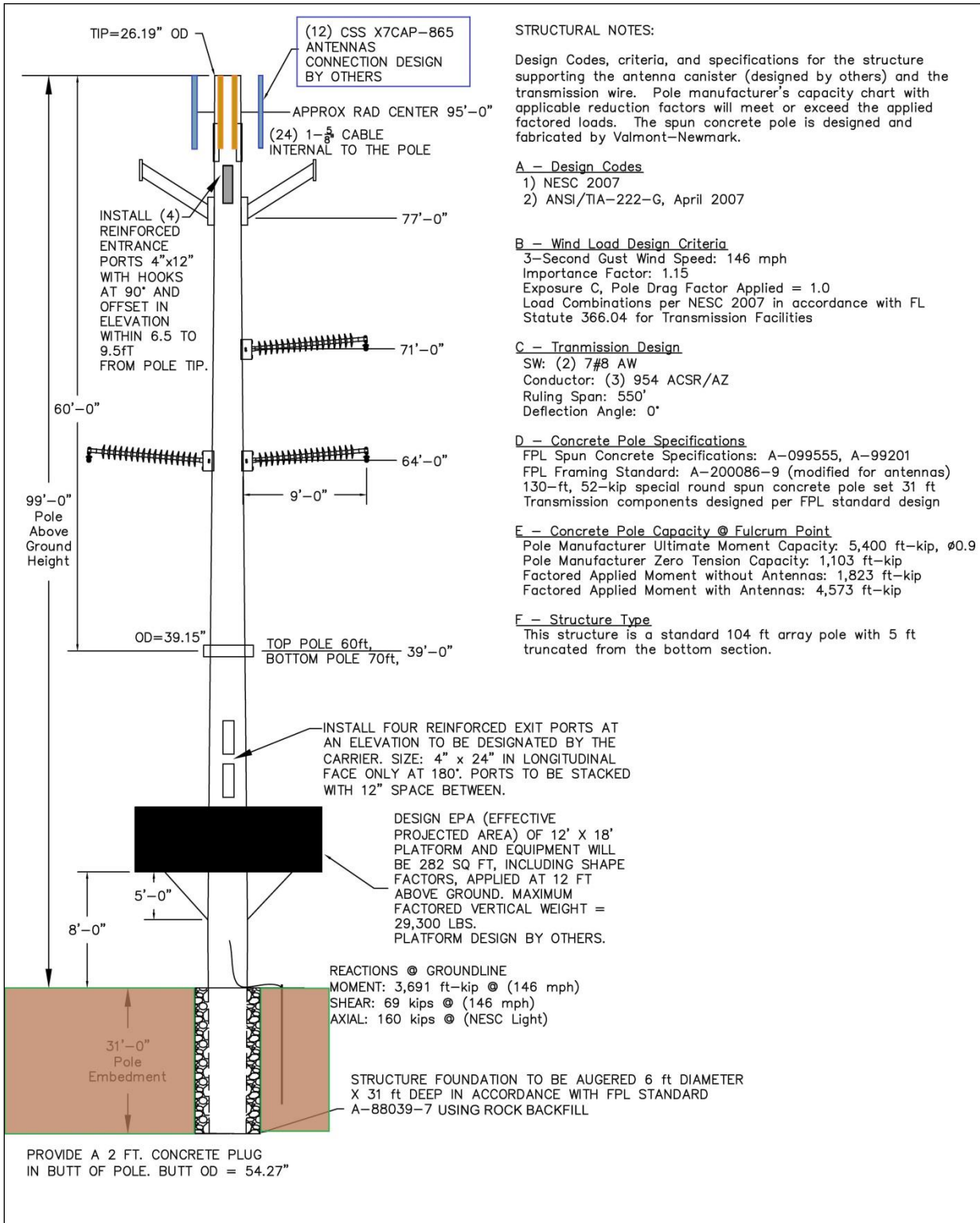


Figure 4. Base Platform Equipment

**Telecommunications Site Review  
 Coconut Creek, Florida**



**Figure 5. Structural Drawing**

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Coconut Creek, Florida**

Business to Business



Verizon Wireless  
777 Nw 51st Street  
Suite 600  
Boca Raton, FL 33431

Phone 561 995-5500

City of Coconut Creek  
Planning Department

January 30, 2013

RE: FCC Compliance- Verizon Wireless Site ID 61005  
Project Name – FP&L Coconut Creek  
Address: 4001 Lyons Road, Coconut Creek, FL 33073

To Whom It May Concern:

Verizon Wireless and/or affiliates (“Verizon Wireless”) operate a PCS network authorized by the Federal Communications Commission (FCC) to provide state of the art digital wireless communications in many parts of the nation, including Florida. Verizon Wireless’ operations and network are licensed and regulated by the FCC.

In an effort to provide seamless coverage and improve phone service, Verizon Wireless the reconstruction of a wireless communications facility at the above referenced location.

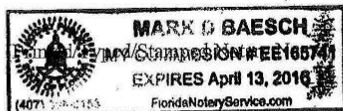
Verizon Wireless herby certifies that the proposed installation at the above referenced address will not cause interference with the use of properly functioning radios, televisions, Emergency Management Systems (EMS) and or telephone broadcasting and reception. In addition, Verizon Wireless shall certify that the antennas installed will be in compliance with all present and future promulgated safety laws, rules and regulations concerning electromagnetic emissions standards or similar safety standards for other communications transmissions.

The RF design, as proposed for the above noted site, is in compliance with all applicable FCC requirements. In addition, the proposed site meets all applicable ANSI/IEEE C95.1-1992 exposure levels, as adopted by the FCC requirements.

Sincerely,  
  
Jaime Lugo - PE  
Manager – Network System Performance  
Verizon Wireless

STATE OF FLORIDA  
COUNTY OF PALM BEACH

The foregoing instrument was acknowledged before me this 31 day of Jan, 2013 by Jaime Lugo, as Network Sys Perf of Verizon Wireless Personal Communications LP, a Delaware Limited Partnership, d/b/a Verizon Wireless. He is personally known to me or has produced \_\_\_\_\_ as identification.



(Official Notary Signature)  
Notary Public – State of Florida

**Figure 6. Compliance Statement**