

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2018	2019	2020	2021	2022
Capital Expenditures	_____	_____	_____	_____	_____
Operating Costs	_____	_____	_____	_____	_____
External Revenues	_____	_____	_____	_____	_____
Program Income (County)	_____	_____	_____	_____	_____
In-Kind Match (County)	_____	_____	_____	_____	_____
NET FISCAL IMPACT	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
# ADDITIONAL FTE POSITIONS (Cumulative)	_____	_____	_____	_____	_____

Is Item Included in Current Budget: Yes No

Does this item include the use of federal funds? Yes No

Budget Account No: Fund _____ Dept _____ Unit _____ Object _____
 Program _____

B. Recommended Sources of Funds/Summary of Fiscal Impact:

No fiscal impact, rental rate is \$0.

Fixed Asset Number _____

C. Departmental Fiscal Review: *[Signature]*

III. REVIEW COMMENTS

A. OFMB Fiscal and/or Contract Development Comments:

[Signature] 8/28/18
 OFMB *[Initials]* 8/27/18
[Signature] 9/4/18
 Contract Development and Control

B. Legal Sufficiency:

[Signature] 9/4/18
 Assistant County Attorney

C. Other Department Review:

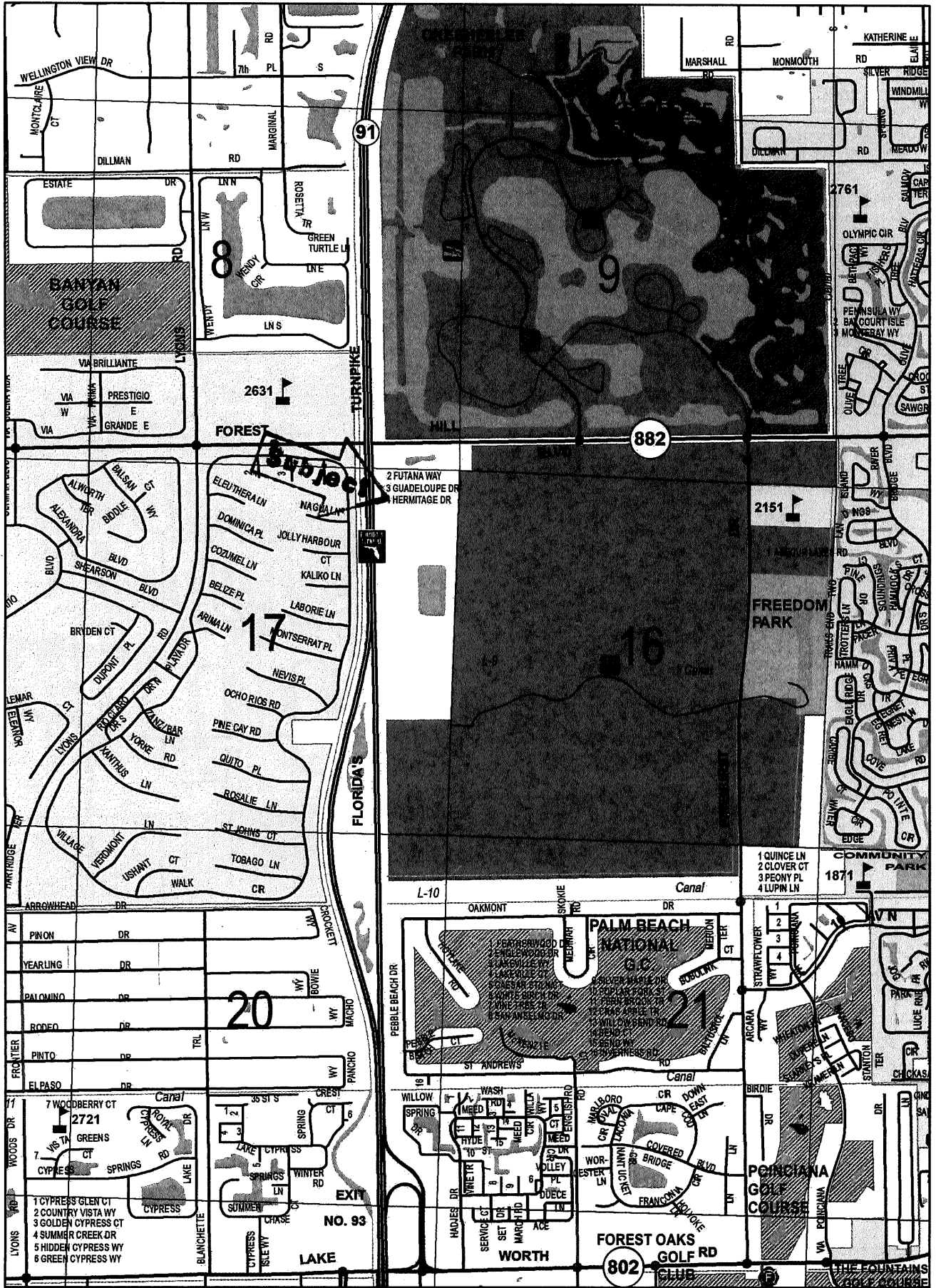
 Department Director

This summary is not to be used as a basis for payment.

TWP 44

TWP 44

TWP 44



RNG 42

See pg 88

RNG 42

LOCATION MAP

Attachment 1
1 pg



Attachment 2
Eighth Amendment to Communication
Joint Use Agreement - 2
(7 pages)

**EIGHTH AMENDMENT TO
COMMUNICATION TOWER JOINT USE AGREEMENT**

between

**PALM BEACH COUNTY,
a political subdivision of the State of Florida**

and

**NEW CINGULAR WIRELESS PCS, LLC,
a Delaware limited liability company**

Forest Hill Tower

Exhibits:

Exhibit “C” - Tower Antenna Configuration

Exhibit “D” – Frequency List

**EIGHTH AMENDMENT TO
COMMUNICATION TOWER JOINT USE AGREEMENT**

THIS EIGHTH AMENDMENT TO COMMUNICATION TOWER JOINT USE AGREEMENT (R96-972-D) (the "Eighth Amendment"), is made and entered into _____, by and between **PALM BEACH COUNTY**, a political subdivision of the State of Florida, hereinafter referred to as ("County"), and **NEW CINGULAR WIRELESS PCS, LLC**, a Delaware limited liability company, successor in interest to AT&T Wireless Services of Florida, Inc., a Florida corporation ("AT&T").

WITNESSETH:

WHEREAS, County and AT&T Wireless Services of Florida, Inc., entered into that certain Communication Tower Joint Use Agreement dated July 16, 1996 (R96-972-D) (the "Agreement"), for the construction of a 400-foot self supported communications tower upon the Property at Forest Hill Blvd and the Turnpike, which Agreement has been amended; and

WHEREAS, the **FIRST AMENDMENT TO THE COMMUNICATION TOWER JOINT USE AGREEMENT** (R2002-0767) allowed AT&T to make additions and improvements to their antennae and equipment; and

WHEREAS, the **SECOND AMENDMENT TO THE COMMUNICATION TOWER JOINT USE AGREEMENT** (R2003-1068) allowed AT&T to install 2 new antennae and 2 new amplifiers to upgrade their third generation equipment; and

WHEREAS, the **THIRD AMENDMENT TO THE COMMUNICATION TOWER JOINT USE AGREEMENT** (R2006-0352) acknowledged that AT&T Wireless Services of Florida, Inc., through a succession of mergers merged into New Cingular Wireless PCS, LLC, and New Cingular Wireless PCS, LLC, agreed to be bound by all of the terms and conditions of the Agreement, as amended; acknowledged that County installed an additional emergency backup generator at the tower site; and allowed AT&T to upgrade its antenna and equipment; and

WHEREAS, the **FOURTH AMENDMENT TO THE COMMUNICATION TOWER JOINT USE AGREEMENT** (R2006-0855) allowed the County to modify the Tower in order to support the deployment of a countywide paging system by the Palm Beach County Fire Rescue Department; and

WHEREAS, the **FIFTH AMENDMENT TO THE COMMUNICATION TOWER JOINT USE AGREEMENT** (R2008-1477) allowed the County to install new equipment and update the tower frequencies in connection with County's re-banding of the 800 MHz frequency; and

WHEREAS, the **SIXTH AMENDMENT TO THE COMMUNICATION TOWER JOINT USE AGREEMENT** (R2012-0888) allowed the County and AT&T to modify their tower equipment and tower frequencies to reflect frequency and equipment changes necessary to provide for the County's wireless networks as well as AT&T's 4G-LTE service; and

WHEREAS, the **SEVENTH AMENDMENT TO THE COMMUNICATION TOWER JOINT USE AGREEMENT** (R2015-1704) allowed AT&T to install new equipment and modify the tower frequencies to provide expansion to AT&T's service; and

WHEREAS, County has completed modifications to its AMI Telemetry Meter System; and

WHEREAS, AT&T wishes to modify its tower equipment; and

WHEREAS, in order to accommodate County's and AT&T's modifications, it is necessary to modify the Tower Antenna Configuration exhibit and the Frequency List exhibit of the Agreement; and

WHEREAS, an updated structural study and intermodulation study were performed, and County and AT&T acknowledge and agree that the changes contemplated herein will not interfere with the frequencies of users on the Tower nor affect the structural capacity of the Tower; and

WHEREAS, the parties hereto desire to amend the Agreement, as amended, in accordance with the terms and conditions set forth herein.

NOW, THEREFORE, in consideration of the mutual covenants and agreements hereinafter set forth, and various other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree as follows:

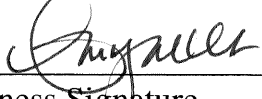
1. The foregoing recitals are true and correct and incorporated herein by reference. All defined terms as used in this Eighth Amendment shall have the same meaning and effect as in the Agreement, as amended.
2. Exhibit "C" (Tower Antenna Configuration) of the Agreement is hereby replaced with Exhibit "C" (Tower Antenna Configuration) attached hereto.
3. Exhibit "D" (Frequency List) of the Agreement is hereby replaced with Exhibit "D" (Frequency List) attached hereto.
4. This Eighth Amendment shall become effective when signed by all parties and approved by the Palm Beach County Board of County Commissioners.
5. Except as modified by this Eighth Amendment and previous amendments, the Agreement remains unmodified and in full force and effect and the parties hereby ratify, confirm and adopt the Agreement, as amended, in accordance with the terms thereof.

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IN WITNESS WHEREOF, County and AT&T have executed this Eighth Amendment, or have caused the same to be executed by their duly authorized representatives, as of the day and year first above written.

NEW CINGULAR WIRELESS PCS, LLC, a Delaware limited liability company


WITNESS:



Witness Signature

Amy Mosk

Print Witness Name



Witness Signature

Anne Frost

Print Witness Signature

By: AT&T Mobility Corporation, its Manager



Henry Galan
Area Manager
R E & Construction

ATTEST:

SHARON R. BOCK
CLERK & COMPTROLLER

By: _____
Deputy Clerk

PALM BEACH COUNTY, a political subdivision of the State of Florida

By: _____
Melissa McKinlay, Mayor

(SEAL)

WITNESSES:

Signature of Witness

Print Name of Witness

Signature of Witness

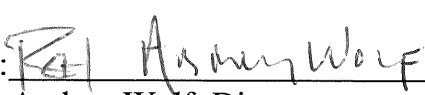
Print Name of Witness

APPROVED AS TO FORM
AND LEGAL SUFFICIENCY

By: 

Assistant County Attorney

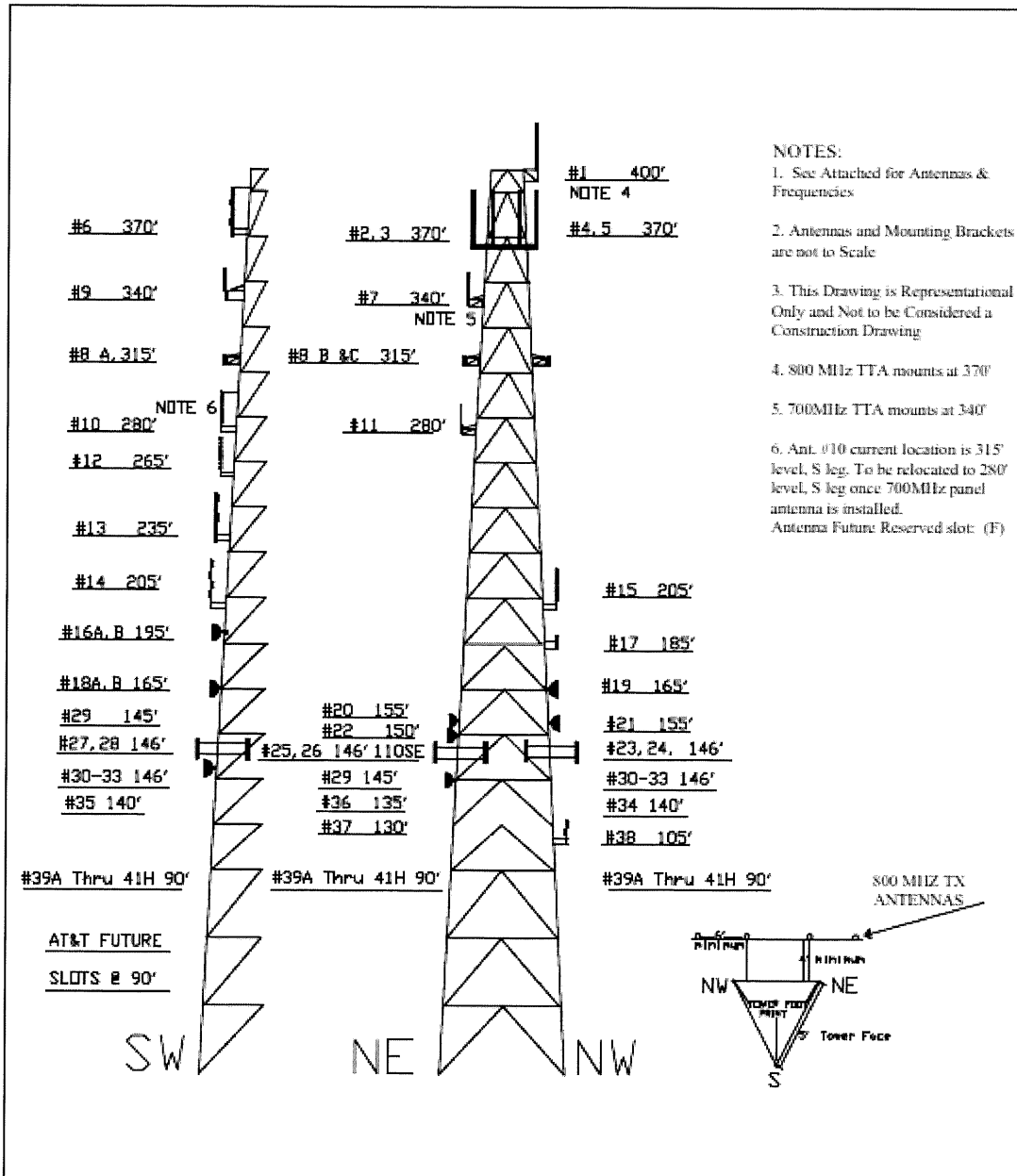
APPROVED AS TO TERMS
AND CONDITIONS

By: 

Audrey Wolf, Director
Facilities Development & Operations

EXHIBIT "C"

Tower Antenna Configuration



- NOTES:
1. See Attached for Antennas & Frequencies
 2. Antennas and Mounting Brackets are not to Scale
 3. This Drawing is Representational Only and Not to be Considered a Construction Drawing
 4. 800 MHz TTA mounts at 370'
 5. 700MHz TTA mounts at 340'
 6. Ant. #10 current location is 315' level, S leg. To be relocated to 280' level, S leg once 700MHz panel antenna is installed.
Antenna Future Reserved slot: (F)

FOREST HILL SITE COMMUNICATIONS TOWER	REVISIONS		DATE
	NO.	DESCRIPTION	
PALM BEACH COUNTY ELECTRONIC SERVICES & SECURITY DIVISION	1	ADD PBC CERT, 700MHz & PTP1 ATT.	2-21-18
	2	REVISED ATT ANTENNAS REMOVED FROM TOWER.	4-11-18
	3	REVISED PBC WUD ANTENNA	2-13-18
	4	AT&T UPGRADE	6-29-18

FILE: C:\GIS\2018\18-0001\18-0001-01\18-0001-01.dwg DATE: 06-28-18 Page 1 of 1

FOREST HILL TOWER ANTENNA SCHEDULE											
ID#	ANTENNA TYPE	OWNER	USE	MOUNT	OPN	HEIGHT (FEET)	STAND (FT)	AZIMUTH	LEG	CLASS	FREQUENCY
1	BMH-12H	CELWAVE	COUNTY 800 MHz RX	CUSTOM	PAT. INC.	495'	4'	000N	TOP	LDPS-50	800 ONLY
2	BMH-12H	CELWAVE	COUNTY 800 MHz TX	CUSTOM	PAT. INC.	370'	6'	000N	NE	LDPS-50	800-800 MHz
3	BMH-12H	CELWAVE	COUNTY 800 MHz TX	CUSTOM	PAT. INC.	370'	6'	000N	NE	LDPS-50	800-800 MHz
4	BMH-12H	CELWAVE	COUNTY 800 MHz TX	CUSTOM	PAT. INC.	370'	6'	000N	NW	LDPS-50	800-800 MHz
5	BMH-12H	CELWAVE	COUNTY 800 MHz TX	CUSTOM	PAT. INC.	370'	6'	000N	NW	LDPS-50	800-800 MHz
6	DB-264A	DECEBEL	PBC CELL (F)	S-600	ANDREW	310'	6'	000N	S	LDPS-50	154.630MHz
7	DB-264A	ANDREW	PBC 700MHz (F)	S-600	ANDREW	310'	6'	000N	NE	LDPS-50	700 MHz (NOTE 1)
8A (F)	ENK451200-14M	Comcast	PBC 700MHz (F)	S-600	ANDREW	310'	6'	000N	S	LDPS-50	700 MHz (NOTE 1)
8B (F)	ENK451200-14M	Comcast	PBC 700MHz (F)	S-600	ANDREW	310'	6'	000N	NE	LDPS-50	700 MHz (NOTE 1)
8C (F)	ENK451200-14M	Comcast	PBC 700MHz (F)	S-600	ANDREW	310'	6'	000N	NW	LDPS-50	700 MHz (NOTE 1)
9	DB030C	DECEBEL	PACER COUNTYWIDE PAGING	837B	INDEN	340'	6'	000N	S	LDPS-50	453.1500
10 (F)	DB-420	DECEBEL	EMS MED COMM RX	SAKOLLA	INDEN	310' (E 200' F)	6'	000N	S	LDPS-50	800 ONLY
11	DB-420	DECEBEL	EDU/INDEN/COMV. (F)	2400	ANDREW	280'	6'	000N	NE	LDPS-50	800 MHz
12	DB-420	DECEBEL	Fire (DECEBEL) REPEATER	SAKOLLA	INDEN	280'	6'	000N	S	LDPS-50	453.1500
13	DB-264A	DECEBEL	Fire RESCUE ONE (F) TX	SAKOLLA	INDEN	230'	6'	000N	S	LDPS-50	154.0700
14	BD0-6701-650N-4-20	DECEBEL	W/O. ANTENNA	800-3031200	AMPHENOL	200'	6'	000N	S	AVAB-50	540.1750
15	DB-420	DECEBEL	EMS RESCUE BACK UP ANT	SAKOLLA	INDEN	200'	6'	000N	NW	LDPS-50	453.1500
16A	PAN-526	ANDREW	COUNTY MICROWAVE	4 PIPE	CUSTOM	100'	N/A	170	S	EW-52	6024.500MHz
16B	AL-ANT-1730	ANDREW	PBC 1730 GHz ANTENNA	CUSTOM	CUSTOM	700'	N/A	180	S	CATS	3.1-3.8 GHz
17	MD-6020A	MD FORDIA	COUNTY TEST ANTENNA	2 PIPE	CUSTOM	700'	N/A	000N	NW	LDPS-50	800MHz
18A	PAN-526	ANDREW	COUNTY MICROWAVE	4 PIPE	CUSTOM	100'	N/A	261	S	EW-52	6074.500MHz
18B	PAN-526	ANDREW	COUNTY MICROWAVE	4 PIPE	CUSTOM	100'	N/A	170	S	EW-52	6024.500MHz
19	AL-ANT-1730	ALVARION	PBC 1730 GHz ANTENNA	CUSTOM	CUSTOM	100'	N/A	180	NW	CATS	3.1-3.8 GHz
20	PAN-526	ANDREW	PBC MICROWAVE	4 PIPE	CUSTOM	100'	N/A	80	NE	EW-52	6745.00MHz
21	ENK451200-14M	ANDREW	PBC MICROWAVE	4 PIPE	CUSTOM	100'	N/A	261	NW	EW-52	6750.00MHz
22	PAN-526	ANDREW	COUNTY MICROWAVE	4 PIPE	CUSTOM	100'	N/A	07	NE	EW-52	6045.000MHz
23	SBPHM-1080B	ANDREW	A1&T WIRELESS	CUSTOM	CUSTOM	140'	N/A	350	NW	LDPS-50	890-891 MHz
24	SBPHM-1080B	ANDREW	A1&T WIRELESS	CUSTOM	CUSTOM	140'	N/A	350	NW	LDPS-50	1848-1848 MHz
25	SBPHM-1080B	ANDREW	A1&T WIRELESS	CUSTOM	CUSTOM	140'	N/A	110	SE	LDPS-50	890-891 MHz
26	SBPHM-1080B	ANDREW	A1&T WIRELESS	CUSTOM	CUSTOM	140'	N/A	110	SE	LDPS-50	1848-1848 MHz
27	SBPHM-1080B	ANDREW	A1&T WIRELESS	CUSTOM	CUSTOM	140'	N/A	230	SW	LDPS-50	890-891 MHz
28	SBPHM-1080B	ANDREW	A1&T WIRELESS	CUSTOM	CUSTOM	140'	N/A	230	SW	LDPS-50	1848-1848 MHz
29	3E1A1M1201172-0	IPS	A1&T WIRELESS	CUSTOM	CUSTOM	140'	N/A				
30	3100C-44-80-1840C	RAYCAP	A1&T WIRELESS	CUSTOM	CUSTOM	140'	N/A				(S) Power Cable

31	3100C-44-80-1840C	ENDEAVOR	A1&T WIRELESS	CUSTOM	CUSTOM	140'	N/A				(S) Fiber
32	3100C-44-80-1840C	ENDEAVOR	A1&T WIRELESS	CUSTOM	CUSTOM	140'	N/A				1848-1848 MHz
33	3100C-44-80-1840C	ENDEAVOR	A1&T WIRELESS	CUSTOM	CUSTOM	140'	N/A				1848-1848 MHz
34	ENK451200-14M	ANDREW	PBC MICROWAVE	4 PIPE	CUSTOM	140'	N/A	261	NW	EW-52	6074.500MHz
35	PAN-526	ANDREW	COUNTY MICROWAVE	4 PIPE	CUSTOM	140'	N/A	170	S	EW-52	6024.500MHz
36	PAN-526	ANDREW	COUNTY MICROWAVE	4 PIPE	CUSTOM	130'	N/A	178	S	EW-52	6775.00 MHz
37	PAN-526B	ANDREW	COUNTY MICROWAVE	4 PIPE	CUSTOM	130'	N/A	72	NE	EW-52	6045.00 MHz
38	DB-220	DECEBEL	COUNTY MICROWAVE	80100	MICROWAVES	300'	1'	000N	NW	LDPS-50	159.1500

Notes:
 1 (F) Future
 2 (F) A1&T Future Slots
 3 (F) Future, antenna to be relocated from 310' to 280' level on S leg, once 700MHz panel antennas are installed. Currently, antenna DB420 at 310' was on Pace's Structure study dated April 3, 2012.
 (C) CURRENT; (F) FUTURE.

NOTE 1: PALM BEACH COUNTY FUTURE PLAN FREQUENCY FREQUENCIES									
Regional ID Project		700 Mutual Aid		700 Mutual Aid		700 Broadband		700 Broadband	
TX	RX	TX	TX	RX	RX	TX	RX	TX	RX
170.7000	800.1625	700.2425	770.7000	700.2425	800.1625	700.7000	800.1625	700.7000	800.1625
172.3000	800.7625	700.7425	772.3000	700.7425	800.7625	700.7425	800.7625	700.7425	800.7625
170.3000	800.3625	700.2425	770.3000	700.2425	800.3625	700.3000	800.3625	700.3000	800.3625
172.3000	800.3625	700.7425	772.3000	700.7425	800.3625	700.7425	800.3625	700.7425	800.3625

Frequencies are in MHz.

EXHIBIT "D"

PALM BEACH COUNTY ELECTRONIC SERVICE AND SECURITY DIVISION
 800MHz SYSTEM FREQUENCIES
 SITE NAME: Forest Hill Tower

6-28-2018

TRANSMIT	RECEIVE	USE	NOTE
851.8500	806.8500	PBC 800MHz Trunked System	(1)
851.3125	812.3125	PBC 800MHz Trunked System	(1)
851.3250	806.3250	PBC 800MHz Trunked System	(1)
852.1000	807.1000	PBC 800MHz Trunked System	(1)
853.2250	808.2250	PBC 800MHz Trunked System	(1)
851.7500	806.7500	PBC 800MHz Trunked System	(1)
851.6250	806.6250	PBC 800MHz Trunked System	(1)
851.6000	806.6000	PBC 800MHz Trunked System	(1)
852.3250	807.3250	PBC 800MHz Trunked System	(1)
851.1250	806.1250	PBC 800MHz Trunked System	(1)
851.1000	806.1000	PBC 800MHz Trunked System	(1)
860.3375	815.3375	PBC 800MHz Trunked System	(1)
859.3375	814.3375	PBC 800MHz Trunked System	(1)
853.7000	808.7000	PBC 800MHz Trunked System	(1)
856.3375	811.3375	PBC 800MHz Trunked System	(1)
860.3125	815.3125	PBC 800MHz Trunked System	(1)
852.3375	807.3375	PBC 800MHz Trunked System	(1)
853.6500	808.6500	PBC 800MHz Trunked System	(1)
856.3125	811.3125	PBC 800MHz Trunked System	(1)
858.3125	813.3125	PBC 800MHz Trunked System	(1)
852.3500	807.3500	PBC 800MHz Trunked System	(1)
858.3375	813.3375	PBC 800MHz Trunked System	(1)
859.3125	814.3125	PBC 800MHz Trunked System	(1)
851.8250	806.8250	PBC 800MHz Trunked System	(1)
770.7625	800.7630	PBC 700MHz IO Project	(2)
772.2875	802.2880	PBC 700MHz IO Project	(2)
773.3875	803.3880	PBC 700MHz IO Project	(2)
773.9375	803.9380	PBC 700MHz IO Project	(2)
774.7375	804.7380	PBC 700MHz IO Project	(2)
769.2438	799.2440	PBC 700MHz IO Mutual Aid	(2)
769.7438	799.7440	PBC 700MHz IO Mutual Aid	(2)
770.2438	800.2440	PBC 700MHz IO Mutual Aid	(2)
770.9938	800.9940	PBC 700MHz IO Mutual Aid	(2)
773.2563	803.2560	PBC 700MHz IO Mutual Aid	(2)
773.7563	803.7560	PBC 700MHz IO Mutual Aid	(2)
774.2563	804.2560	PBC 700MHz IO Mutual Aid	(2)
774.8563	804.8560	PBC 700MHz IO Mutual Aid	(2)
758 thru 763	788 thru 793	PBC 700MHz Broadband	(2)
5974.8500	6226.8900	PBC Digital Microwave	(1)
6004.5000	6256.5400	PBC Digital Microwave	(1)
6845	6685	PBC Digital Microwave	(1)
6063.8000	6315.8400	PBC Digital Microwave	(1)
6745	6585	PBC Digital Microwave	(1)