

Broadus Towers Bella Terra Project

19980 Bella Terra Blvd, Estero, FL 33928

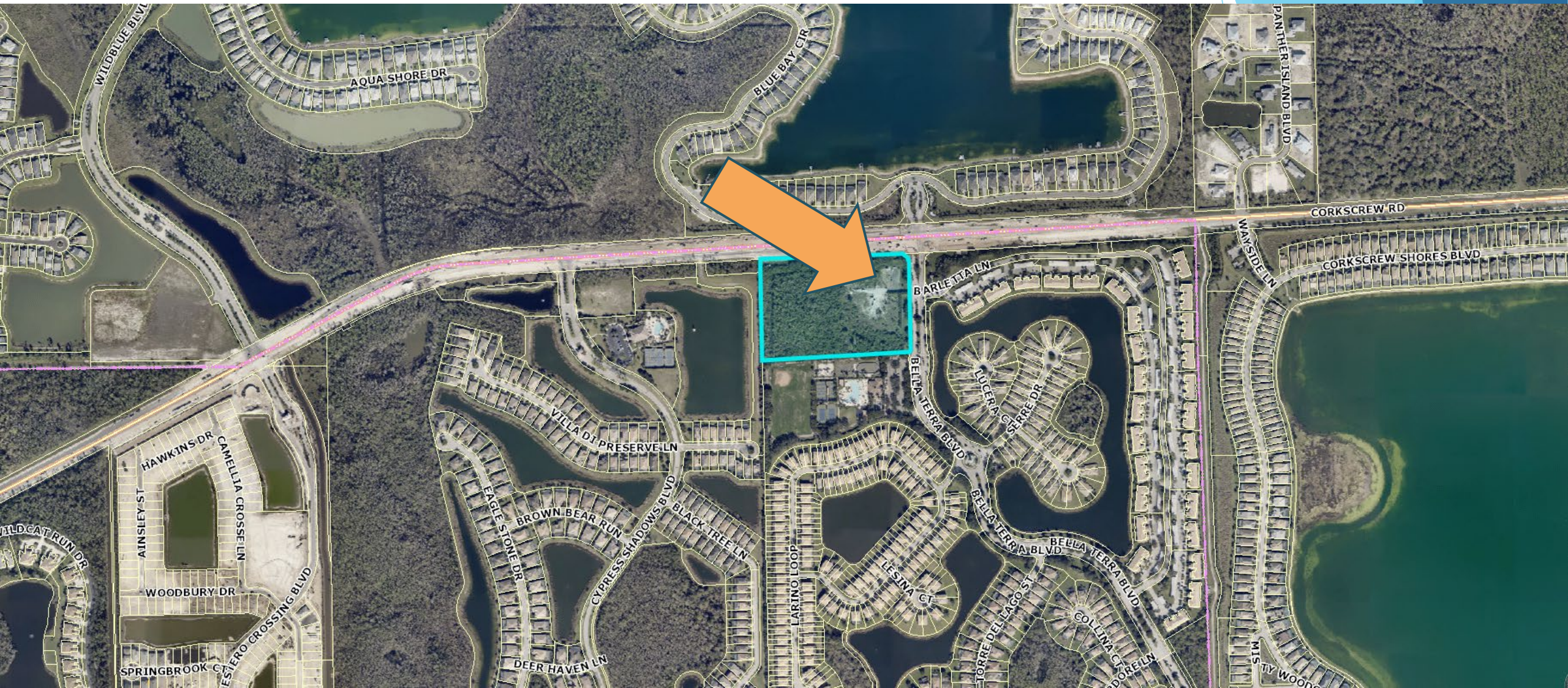
Reasons a new tower is needed:

- ▶ Coverage:
 - ▶ Existing holes in the area need to be filled
- ▶ Capacity:
 - ▶ Just like roads, towers have a limited amount of capacity before they can't handle any more "traffic"
 - ▶ When a tower reaches capacity, it can't receive new calls
 - ▶ The neighboring "handoff" towers have reached a capacity level that triggers the need for a new tower

Considerations when placing a tower:

- ▶ Neighboring towers
 - ▶ Too Close, and the new tower will interfere with the next tower over
 - ▶ Too Far away, and there will be a hole in coverage + it won't offload traffic
- ▶ Neighboring Properties
 - ▶ The Village's code requires 100% tower height setback from other properties
 - ▶ Height dictated by need - shorter = insufficient coverage/offload
- ▶ Located near the traffic source
 - ▶ Towers must be near the cellular users to serve them
 - ▶ Not like old AM/FM radio stations... far side of the county

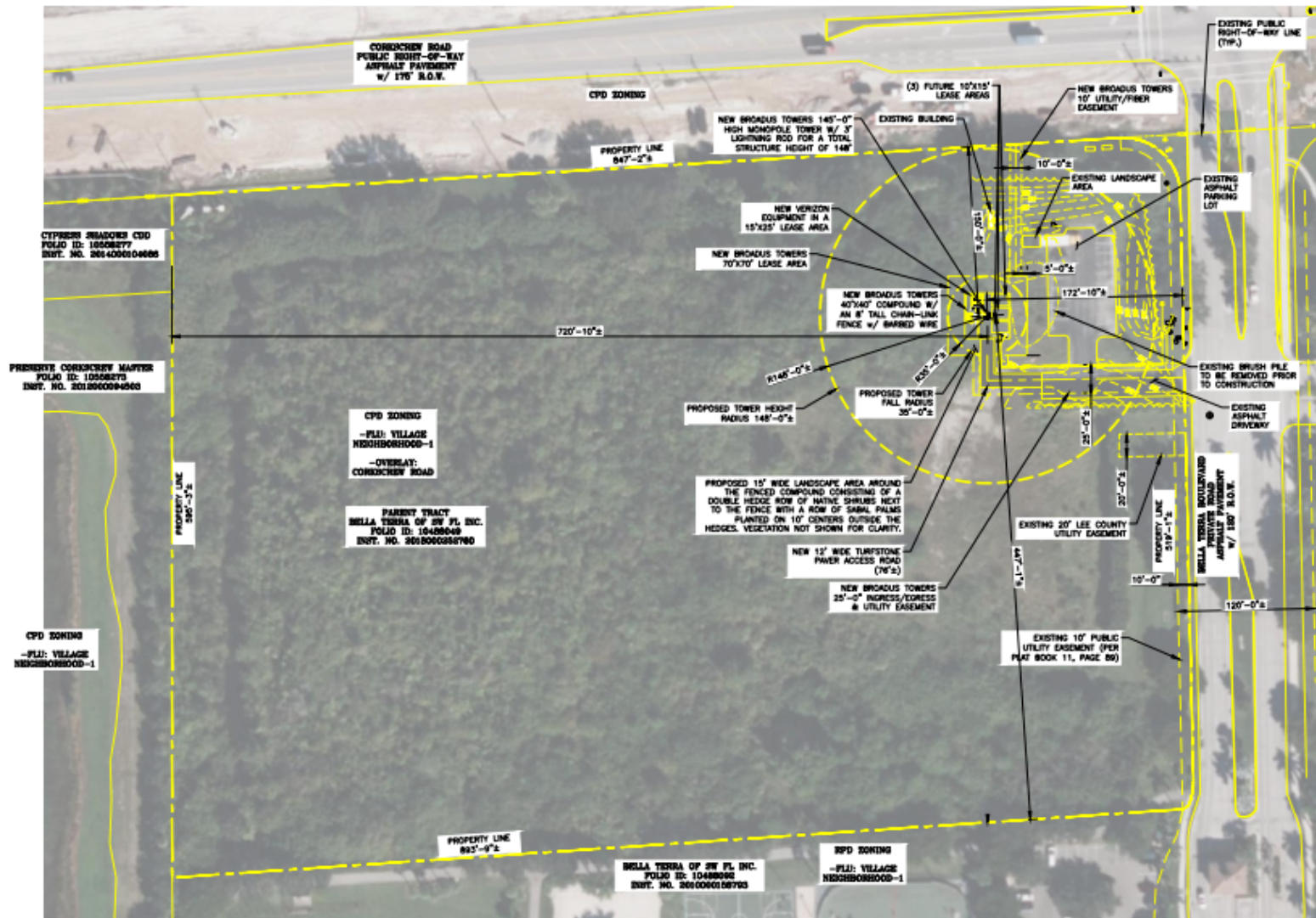






What's proposed?

- ▶ 148' Tall Monopole
 - ▶ Monopole = 1 support pole, no ironworks or guy wires
 - ▶ Antennas mounted on headframe at top
 - ▶ Dull gray tones to help minimize visibility
- ▶ The Monopole will meet all aspects of the Village Tower Code (No Variances)
- ▶ This Monopole will be completely dark at night
- ▶ This Monopole will be designed to hold antennas for up to 4 carriers
 - ▶ Verizon will be the first carrier
 - ▶ The remaining 3 will be made available for colocation



TOWER SETBACK TABLE

DIRECTION FROM EDGE OF TOWER TO BOUNDARY LINE	LENGTH	MIN. REQUIRED SETBACK
N	150'-0"±	140'-0"
S	447'-1"±	140'-0"
E	172'-10"±	140'-0"
W	720'-10"±	140'-0"



EXECUTIVE DIRECTOR SIGNATURE DATE

SUBJECT PARCEL
FL-101
PARCEL ID# 20-46-26-E-010C1.00CE
BELLA TERRA OF SW FL INC.
TRACT C-1
BELLA TERRA UNIT 1
FOLID ID: 10488049
INST. NO. 2018000252780
SE 1/4, SEC. 20, T-46-S, R-26-E
LEE COUNTY, FLORIDA



BROADUS TOWERS SITE NAME:
FL-101

SITE ADDRESS:
**19980 BELLA TERRA BLVD
ESTERO, FL**

NEW
145'-0" MONOPOLE TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DRS/PJL
00A	02/26/2023	2046	PRELIMINARY	---
00B	02/27/2023	2046	PRELIMINARY	---
00C	02/28/2023	2046	PRELIMINARY	---
00D	03/01/2023	2046	PRELIMINARY	---

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DOCUMENT

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SHEET NUMBER: **ZD-1** REVISION: **ZDE**



CYPRESS SHADOWS CDD
FOLD ID: 10466577
INST. NO. 201400604068

CONTRACTOR TO INSTALL THE FOLLOWING SIGNS AT ALL GATES
- ALL-WEATHER EMERGENCY INFORMATION
- SITE ADDRESS AND 24-HOUR EMERGENCY CONTACT PHONE NUMBER
- FCC REGISTRATION SIGN

NOTE:
NO OTHER SIGNS, INCLUDING COMMERCIAL ADVERTISEMENTS, SHALL BE PERMITTED EXCEPT FOR SIGNS REQUIRED BY LAW.

FLOOD NOTE:
BY GRAPHIC PLOTTING ONLY, THE SUBJECT PROPERTY APPEARS TO BE IN NO SPECIAL FLOOD HAZARD AREAS ON THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO. 126710425F, A NON-FRINKED PANEL.

COMPOUND SETBACK TABLE		
DIRECTION FROM EDGE OF COMPOUND TO BOUNDARY LINE	LENGTH	MIN. REQUIRED SETBACK
N	130'-0"	25'-0"
S	427'-1"	15'-0"
E	102'-0"	25'-0"
W	685'-7"	15'-0"

PREMIER'S CONCRETEWAY MASTER
FOLD ID: 1055273
INST. NO. 2018060094568

CPD ZONING
-PLU: VILLAGE NEIGHBORHOOD-1

CPD ZONING
-PLU: VILLAGE NEIGHBORHOOD-1
-OVERLAY: CONCRETEWAY ROAD

PARENT TRACT
BELLA TERRA OF SW FL, INC.
FOLD ID: 10488049
INST. NO. 2018000252780

BELLA TERRA OF SW FL, INC.
FOLD ID: 10488049
INST. NO. 2018000252780

RPD ZONING
-PLU: VILLAGE NEIGHBORHOOD-1

SUBJECT PARCEL (FROM TITLE)
ALL OF TRACT C-1, BELLA TERRA UNIT ONE, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 77, PAGE 84, OF THE PUBLIC RECORDS OF LEE COUNTY, FLORIDA.

70' X 70' LEASE AREA (AS-SURVEYED)

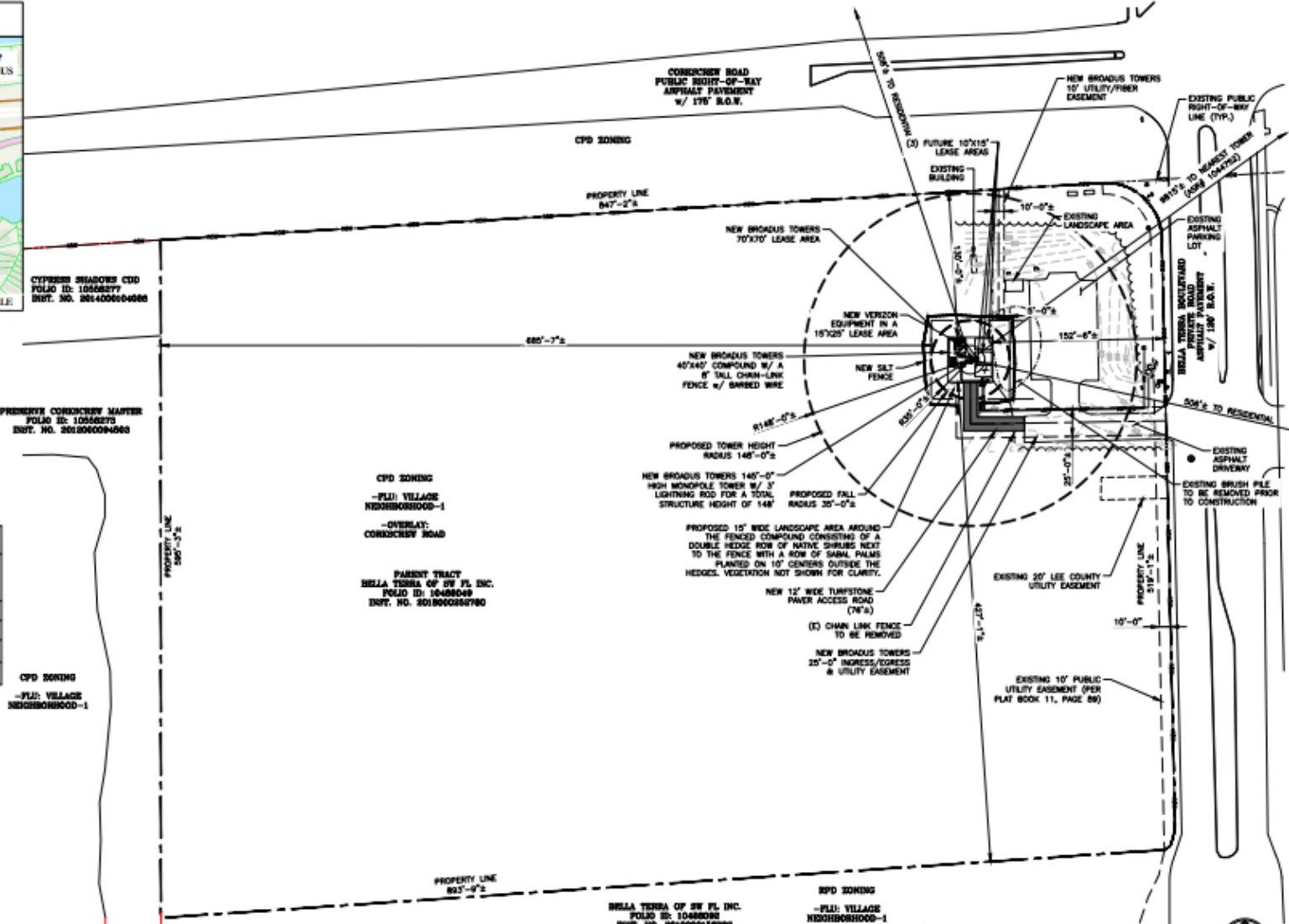
Being a portion of a certain tract of land as described and recorded in Instrument Number 2018000252780, in the Office of the County Recorder, and lying in the Southeast Quarter of Section 20, Township 46 South, Range 26 East, Lee County Florida, and being more particularly described as follows:
Commencing at a capped rebar (L86690) found for the Southwest corner of the Southeast Quarter of add Section 46, and also being the Southwest corner of add certain tract of land; thence N 86°07'36"E, along the south line of add certain tract of land, a distance of 895.50 feet to a capped rebar (L83664) found for the southeast corner of add certain tract of land; thence N 27°24'18"W a distance of 451.38 feet to a 5/8" rebar set; thence N 0°00'00"W a distance of 70.00 feet to a 5/8" rebar set; thence N 90°00'00"E a distance of 70.00 feet to a 5/8" rebar set; thence S 0°00'00"E a distance of 70.00 feet to a point; thence N 90°00'00"W a distance of 70.00 feet to the Point of Beginning. Sold above described Lease Area contains 4,909.0 square feet or 0.11 acres, more or less.

INGRESS/EGRESS & UTILITY EASEMENT (AS-SURVEYED)

Being a portion of a certain tract of land as described and recorded in Instrument Number 2018000252780, in the Office of the County Recorder, and lying in the Southeast Quarter of Section 20, Township 46 South, Range 26 East, Lee County Florida, and being more particularly described as follows:
Commencing at a capped rebar (L86690) found for the Southwest corner of the Southeast Quarter of add Section 46, and also being the Southwest corner of add certain tract of land; thence N 86°07'36"E, along the south line of add certain tract of land, a distance of 895.50 feet to a capped rebar (L83664) found for the southeast corner of add certain tract of land; thence N 27°24'18"W a distance of 451.38 feet to a 5/8" rebar set; thence N 0°00'00"W a distance of 70.00 feet to a 5/8" rebar set; thence N 90°00'00"E a distance of 70.00 feet to a 5/8" rebar set; thence S 0°00'00"E a distance of 70.00 feet to a point; thence N 90°00'00"W a distance of 70.00 feet to the Point of Beginning of an Ingress/Egress & Utility Easement being 25 feet in width and lying 12.50 feet on each side of the following described centerline; thence S 0°00'00"E a distance of 22.35 feet to a point; thence N 89°03'20"E a distance of 174.01 feet, more or less, to a point on the westerly right of way line of Bella Terra Boulevard, and the Point of Ending. Sold above described Ingress/Egress & Utility Easement contains 4,909.2 square feet or 0.11 acres, more or less.

10' UTILITY/FIBER EASEMENT (AS-SURVEYED)

Being a portion of a certain tract of land as described and recorded in Instrument Number 2018000252780, in the Office of the County Recorder, and lying in the Southeast Quarter of Section 20, Township 46 South, Range 26 East, Lee County Florida, and being more particularly described as follows:
Commencing at a capped rebar (L86690) found for the Southwest corner of the Southeast Quarter of add Section 46, and also being the Southwest corner of add certain tract of land; thence N 86°07'36"E, along the south line of add certain tract of land, a distance of 895.50 feet to a capped rebar (L83664) found for the southeast corner of add certain tract of land; thence N 27°24'18"W a distance of 451.38 feet to a 5/8" rebar set; thence N 0°00'00"W a distance of 70.00 feet to a 5/8" rebar set; thence N 90°00'00"E a distance of 70.00 feet to a 5/8" rebar set; thence S 0°00'00"E a distance of 70.00 feet to a point; thence N 90°00'00"W a distance of 70.00 feet to the Point of Beginning of a Utility/Fiber Easement being 10 feet in width and lying 5 feet on each side of the following described centerline; thence N 0°00'00"W a distance of 117.52 feet, more or less, to a point on the southerly right of way line of Concrecway Road, and the Point of Ending. Sold above described Utility/Fiber Easement contains 1,175.3 square feet or 0.02 acres, more or less.



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INST. NO. 2018000252780
SE 1/4, SEC. 20, T-46-S, R-26-E
LEE COUNTY, FLORIDA

508 HIDDEN RIDGE,
IRVING, TX 75038

4 COUNTRY PLACE CIRCLE
DALWORTHINGTON GARDENS
TEXAS 76016

BROADUS-TOWERS SITE NAME:
FL-101

SITE ADDRESS:
19980 BELLA TERRA BLVD
ESTERO, FL

NEW
145'-0" MONOPOLE TOWER

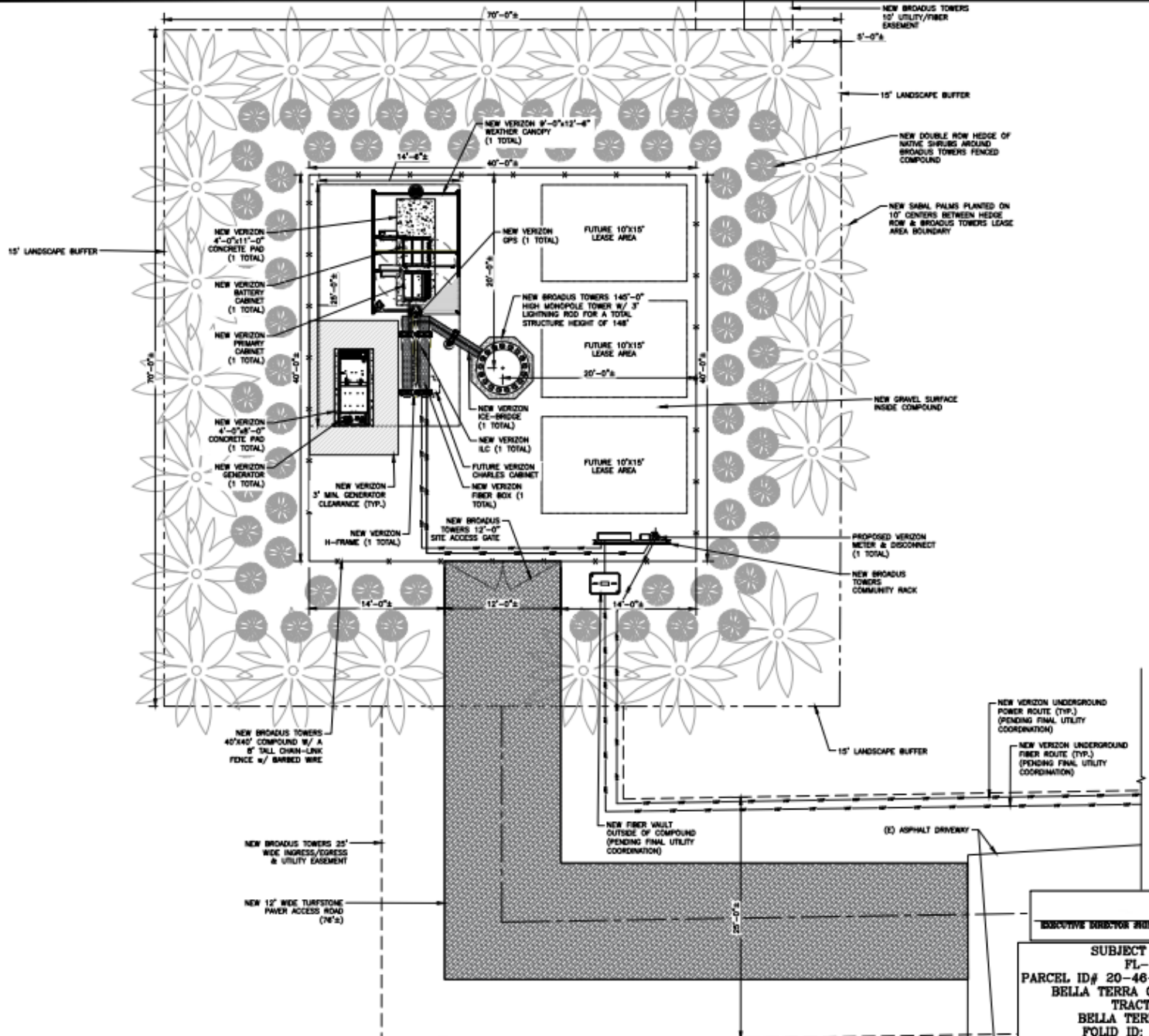
ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DRS-PL
2020	02/04/2023	BAW	PRELIMINARY	---
2021	02/15/2023	BAW	PRELIMINARY	---
2022	02/28/2023	BAW	PRELIMINARY	---
2023	06/01/2023	WLS	PRELIMINARY	---

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SHEET NUMBER: **ZD-2** REVISION: **ZDE**



verizon
 500 HIDDEN RIDGE,
 IRVING, TX 75038

BROADUS TOWERS
 4 COUNTRY PLACE CIRCLE
 DALWORTHINGTON GARDENS
 TEXAS 75046

BROADUS TOWERS SITE NAME:
 FL-101

SITE ADDRESS:
 19980 BELLA TERRA BLVD
 ESTERO, FL

NEW
 145'-0" MONOPOLE TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DRS/PJ
001	02/06/2023	EMPE	PRELIMINARY	---
002	02/23/2023	EMPE	PRELIMINARY	---
003	02/29/2023	EMPE	PRELIMINARY	---
004	03/01/2023	WHB	PRELIMINARY	---

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 BELLA TERRA OF SW FL INC.
 TRACT C-1
 BELLA TERRA UNIT 1
 FOLID ID: 10488049
 INST. NO. 2018000252780
 SE 1/4, SEC. 20, T-46-S, R-26-E
 LEE COUNTY, FLORIDA

1 ENLARGED COMPOUND LAYOUT
 SCALE: 3/16"=1'-0" (FINAL 5/80)
 3/32"=1'-0" (1/17)



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SHEET NUMBER: **ZD-3** REVISION: **ZDE**

NOTE:

LIGHTING:

- A. EXCEPT FOR SECURITY LIGHTING AND SITE LIGHTING, OTHER TYPES OF LIGHTS, SIGNALS OR ILLUMINATION WILL ONLY BE PERMITTED ON AN ANTENNA-SUPPORTING STRUCTURE OR ANCILLARY APPURTENANCES WHERE LIGHTING IS REQUIRED BY THE FAA, FCC, THE VILLAGE, OR THE LEE COUNTY MOSQUITO CONTROL DISTRICT.
- B. SECURITY LIGHTING, SECURITY LIGHTING AND SITE LIGHTING MAY BE PLACED IN ASSOCIATION WITH AN APPROVED EQUIPMENT ENCLOSURE. SITE LIGHTING MUST REMAIN UNLIT EXCEPT WHEN AUTHORIZED PERSONNEL ARE PRESENT AT THE FACILITY. SECURITY LIGHTING AND SITE LIGHTING MUST BE SHIELDED TO PREVENT LIGHT TRESPASS.
- C. ALL ANTENNA-SUPPORTING STRUCTURES 150 FEET OR GREATER IN HEIGHT ABOVE GROUND LEVEL MUST BE ARTIFICIALLY LIGHTED AND MAINTAINED PURSUANT TO THE TECHNICAL REQUIREMENTS OF THE FEDERAL AVIATION ADMINISTRATION'S CURRENT ADVISORY CIRCULAR 70/7460-1K, OBSTRUCTION MARKING AND LIGHTING, AS AMENDED, OR OTHER APPROPRIATE AVIATION AUTHORITY, UNLESS PRE-EMPTED BY FAA OR FCC REGULATIONS. ALL LIGHTING MUST BE APPROVED IN CONJUNCTION WITH THE DEVELOPMENT ORDER FOR THE FACILITY.
- D. IF THE HEIGHT OF A STRUCTURE UNDER CONSTRUCTION EQUALS OR EXCEEDS THE HEIGHT AT WHICH PERMANENT OBSTRUCTION LIGHTS ARE REQUIRED BY THE FAA, FCC OR THE DIVISION OF DEVELOPMENT SERVICES, TEMPORARY HIGH OR MEDIUM INTENSITY FLASHING LIGHTS MUST BE INSTALLED AT THAT LEVEL IN ACCORDANCE WITH ADVISORY CIRCULAR 70/7460-1K, OBSTRUCTION MARKING AND LIGHTING, AS AMENDED.

SIGNAGE:

1. SIGNS ON ANTENNA-SUPPORTING STRUCTURES, ANCILLARY APPURTENANCES, EQUIPMENT ENCLOSURES, OR ON ANY FENCE OR WALL ARE PROHIBITED UNLESS PERMITTED IN ACCORDANCE WITH THIS SUBSECTION.
2. IF HIGH VOLTAGE IS NECESSARY FOR THE OPERATION OF PROPOSED WIRELESS COMMUNICATIONS FACILITIES, "HIGH VOLTAGE-DANGER" AND "NO TRESPASS" WARNING SIGNS NOT GREATER THAN ONE SQUARE FOOT IN AREA MUST BE PERMANENTLY ATTACHED TO THE FENCE OR WALL AT INTERVALS OF NOT LESS THAN 40 FEET AND UPON THE ACCESS GATE, OR AS OTHERWISE REQUIRED BY THE FAA OR FCC.
3. A SIGN NOT GREATER THAN ONE SQUARE FOOT IN AREA MUST BE ATTACHED TO THE ACCESS GATE THAT INCLUDES THE FOLLOWING INFORMATION:
 3.A. FEDERAL REGISTRATION NUMBER, IF APPLICABLE;
 3.B. NAME OF PROPERTY OWNER, FACILITY OWNER, PROVIDERS, AND CONTACT PERSON; AND
 3.C. AN EMERGENCY CONTACT NUMBER FOR THE CONTACT PERSON.

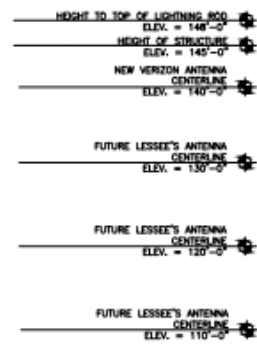
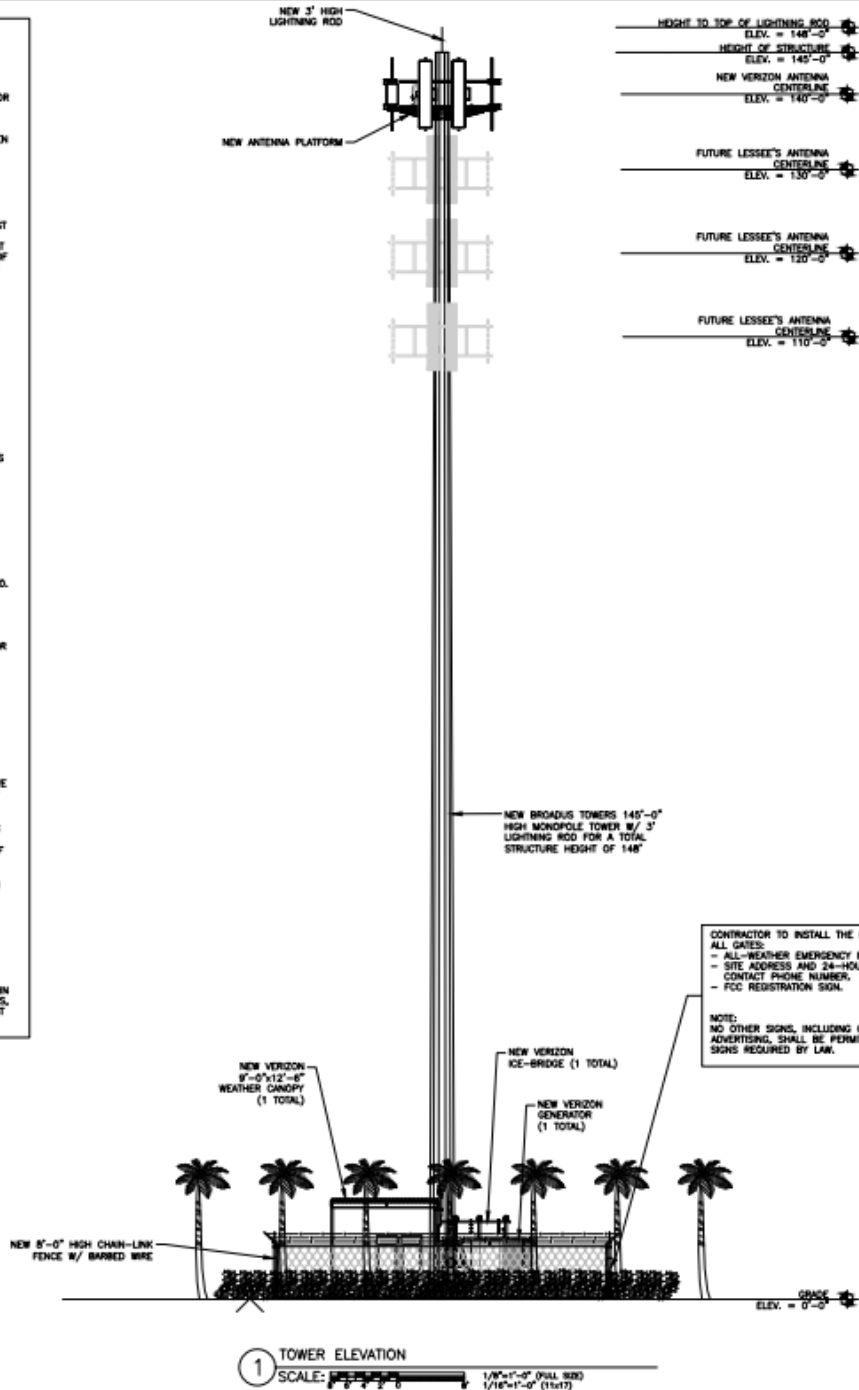
TAPING:

THE DEVELOPER OF A WIRELESS COMMUNICATIONS FACILITY SHALL INSTALL TAPING AROUND THE ANTENNA SUPPORTING STRUCTURE IN CONFORMANCE WITH THE FOLLOWING:

1. THE TAPE SHALL BE SIX-INCH 3M DIAMOND GRADE™ VIP REFLECTIVE SHEETING, SERIES 3090.
2. THE TAPING SHALL START AT 20 FEET ABOVE SURFACE.
3. THE TAPING SHALL BE AT TEN-FOOT INTERVALS.
4. THE TAPE SHALL BE WRAPPED AROUND THE SUPPORT POLE AND OVERLAP BY ONE INCH FOR A GOOD SEAL.

ABANDONMENT OF COMMUNICATIONS FACILITY:

- UPON ABANDONMENT OF A REGISTRANT'S COMMUNICATIONS FACILITY IN THE PUBLIC RIGHT-OF-WAY, THE REGISTRANT SHALL NOTIFY THE VILLAGE, IN WRITING, WITHIN 90 DAYS. ADDITIONALLY, REGISTRANTS SHALL COMPLY WITH THE PROVISIONS OF SECTION 4-243.02, REGISTRATION FOR PLACING OR MAINTAINING SMALL WIRELESS FACILITIES IN PUBLIC RIGHTS-OF-WAY, RELATING TO BI-ANNUAL REGISTRATION AND UPDATING OF FACILITIES.
- THE VILLAGE MAY, AT ITS DISCRETION, DIRECT THE REGISTRANT BY WRITTEN NOTICE TO REMOVE ALL OR ANY PORTION OF SUCH ABANDONED FACILITY AT THE REGISTRANT'S SOLE EXPENSE IF THE VILLAGE DETERMINES THAT THE ABANDONED FACILITY'S PRESENCE INTERFERES WITH THE PUBLIC HEALTH, SAFETY OR WELFARE, WHICH SHALL INCLUDE, BUT NOT BE LIMITED TO, A DETERMINATION THAT SUCH FACILITY: (1) COMPROMISES SAFETY AT ANY TIME FOR ANY PUBLIC RIGHTS-OF-WAY USER OR DURING CONSTRUCTION OR MAINTENANCE ACTIVITIES IN PUBLIC RIGHTS-OF-WAY; (2) PREVENTS ANOTHER PERSON FROM LOCATING FACILITIES IN THE AREA OF PUBLIC RIGHTS-OF-WAY WHERE THE ABANDONED FACILITY IS LOCATED WHEN OTHER ALTERNATIVE LOCATIONS ARE NOT REASONABLY AVAILABLE; OR (3) CREATES A MAINTENANCE CONDITION THAT IS DISRUPTIVE TO THE PUBLIC RIGHTS-OF-WAY'S USE. IN THE EVENT OF (2) ABOVE, THE VILLAGE MAY REQUIRE THE THIRD PERSON TO COORDINATE WITH THE REGISTRANT THAT OWNS THE EXISTING FACILITY FOR JOINT REMOVAL AND PLACEMENT, WHERE AGREED TO BY THE REGISTRANT.
- IN THE EVENT THAT THE VILLAGE DOES NOT DIRECT THE REMOVAL OF THE ABANDONED FACILITY, THE REGISTRANT, BY ITS NOTICE OF ABANDONMENT TO THE VILLAGE, SHALL BE DEEMED TO CONSENT TO THE ALTERATION OR REMOVAL OF ALL OR ANY PORTION OF THE FACILITY BY THE VILLAGE OR ANOTHER PERSON AT SUCH THIRD PARTY'S COST.
- IF THE REGISTRANT FAILS TO REMOVE ALL OR ANY PORTION OF AN ABANDONED FACILITY WITHIN A REASONABLE PERIOD OF TIME, AS DIRECTED BY THE VILLAGE, BUT NOT TO EXCEED 90 DAYS, THE VILLAGE MAY PERFORM SUCH REMOVAL AND CHARGE THE COST OF THE REMOVAL AGAINST THE REGISTRANT.



CONTRACTOR TO INSTALL THE FOLLOWING SIGNS AT ALL GATES:
 - ALL-WEATHER EMERGENCY INFORMATION,
 - SITE ADDRESS AND 24-HOUR EMERGENCY CONTACT PHONE NUMBER,
 - FCC REGISTRATION SIGN.

NOTE:
 NO OTHER SIGNS, INCLUDING COMMERCIAL ADVERTISING, SHALL BE PERMITTED EXCEPT FOR SIGNS REQUIRED BY LAW.

EXECUTIVE DIRECTOR SIGNATURE _____ DATE _____

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 LEE COUNTY, FLORIDA

verizon
 500 HIDDEN RIDGE,
 IRVING, TX 75038

**BROADUS
 TOWERS**
 4 COUNTRY PLACE CIRCLE
 DALWORTHINGTON GARDENS
 TEXAS 76016

BROADUS TOWERS SITE NAME:
FL-101

SITE ADDRESS:
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NEW
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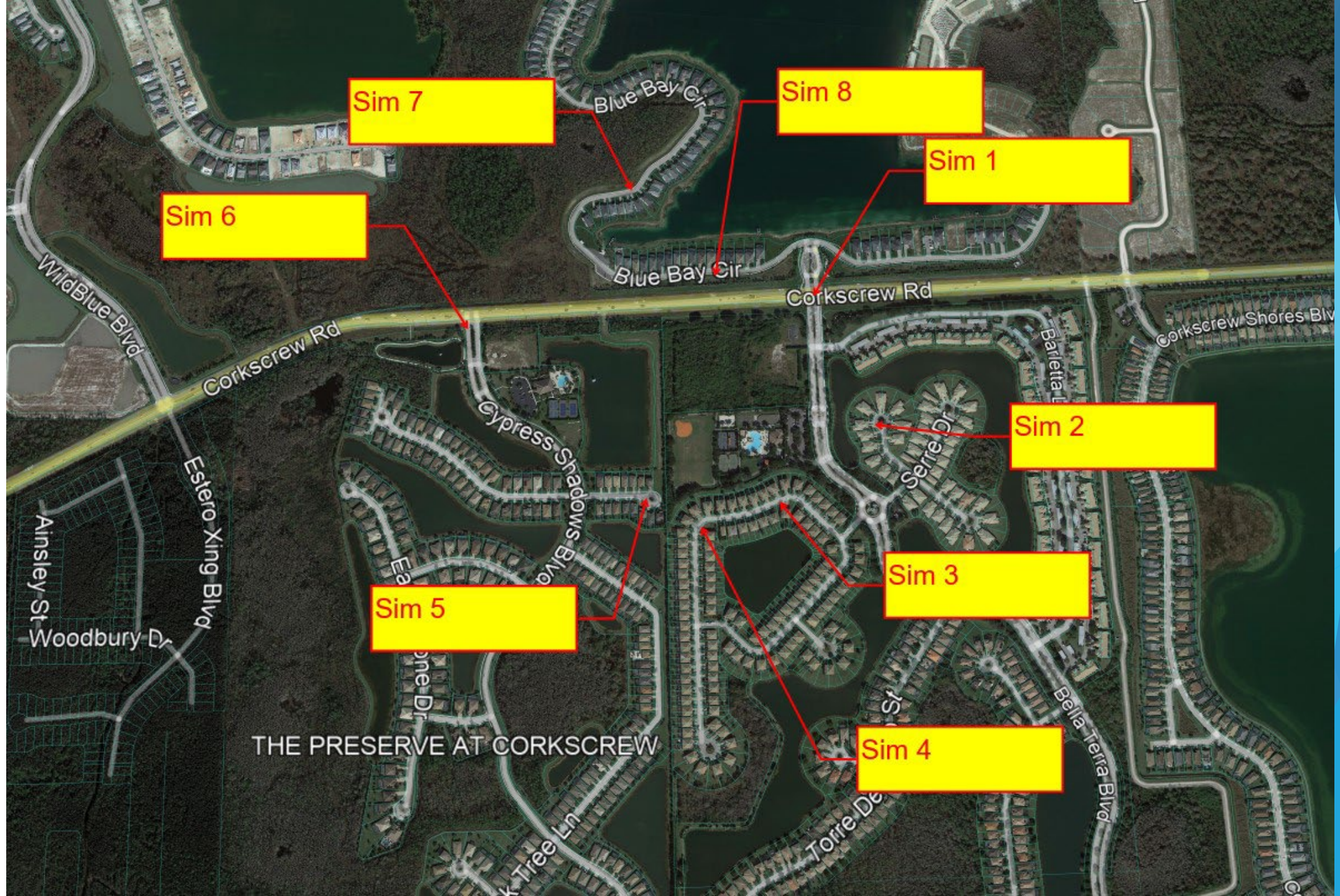
ISSUED FOR:

KEY	DATE	DRWN	DESCRIPTION	DRS/PO
ZDA	02/04/2023	RDW	PRELIMINARY	---
ZDB	02/21/2023	RDW	PRELIMINARY	---
ZDC	02/28/2023	RDW	PRELIMINARY	---
ZDD	07/11/2023	WHS	PRELIMINARY	---
ZDE	07/20/2023	WHS	PRELIMINARY	---

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SHEET NUMBER: **ZD-4** REVISION: **ZDE**



Sim 7

Sim 8

Sim 1

Sim 6

Sim 2

Sim 5

Sim 3

Sim 4

THE PRESERVE AT CORKSCREW

Existing View



verizon ✓
FL-101
19980 Bella Terra Blvd, Estero, FL
149ft. MONOPOLE
SIMULATION
View #1 from Corkscrew Road
approximately 350ft. northeast of site

Existing View



verizon✓

FL-101

19980 Bella Terra Blvd, Estero, FL

149ft. MONOPOLE

SIMULATION

View #2 from Lucera Court
approximately 830ft. southeast of site



verizon✓

FL-101

19980 Bella Terra Blvd, Estero, FL

149ft. MONOPOLE

SIMULATION

View #3 from Larino Loop
approximately 1,060ft. south of site

Existing View



verizon✓

FL-101

19980 Bella Terra Blvd, Estero, FL

149ft. MONOPOLE

SIMULATION

View from #4 Larino Loop

approx. 1,290ft. south-southwest of site



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FL-101

19980 Bella Terra Blvd, Estero, FL

149ft. MONOPOLE

NOT VISIBLE

View #5 from Villa Preserve Lane
approximately 1,330ft. southwest of site



verizon^v

FL-101

19980 Bella Terra Blvd, Estero, FL

149ft. MONOPOLE

NOT VISIBLE

View #6 from Cypress Shadows Blvd
approximately 1,925ft. west of site

Existing View



verizon✓

FL-101

19980 Bella Terra Blvd, Estero, FL

**149ft. MONOPOLE
SIMULATION**

View #7 from Blue Bay Circle
approximately 1,300ft. Northwest of site



verizon[✓]
FL-101
19980 Bella Terra Blvd, Estero, FL
149ft. MONOPOLE
SIMULATION
View #8 from Blue Bay Circle
approximately 560ft. Northwest of site

COMPTON

Lee County, FL

Prepared by Verizon Wireless RF Engineering

Darwin Feliz

December 13, 2022



Introduction:

This Verizon proposed tower, Compton is needed to improve wireless service coverage to the near by communities and roads.

Coverage is the need to expand wireless service into an area that either has no service or bad service. The request for service often comes from customers or emergency personnel. Expansion of service could mean improving the signal levels in a large apartment complex or new residential community. It could also mean providing new service along a newly built highway.

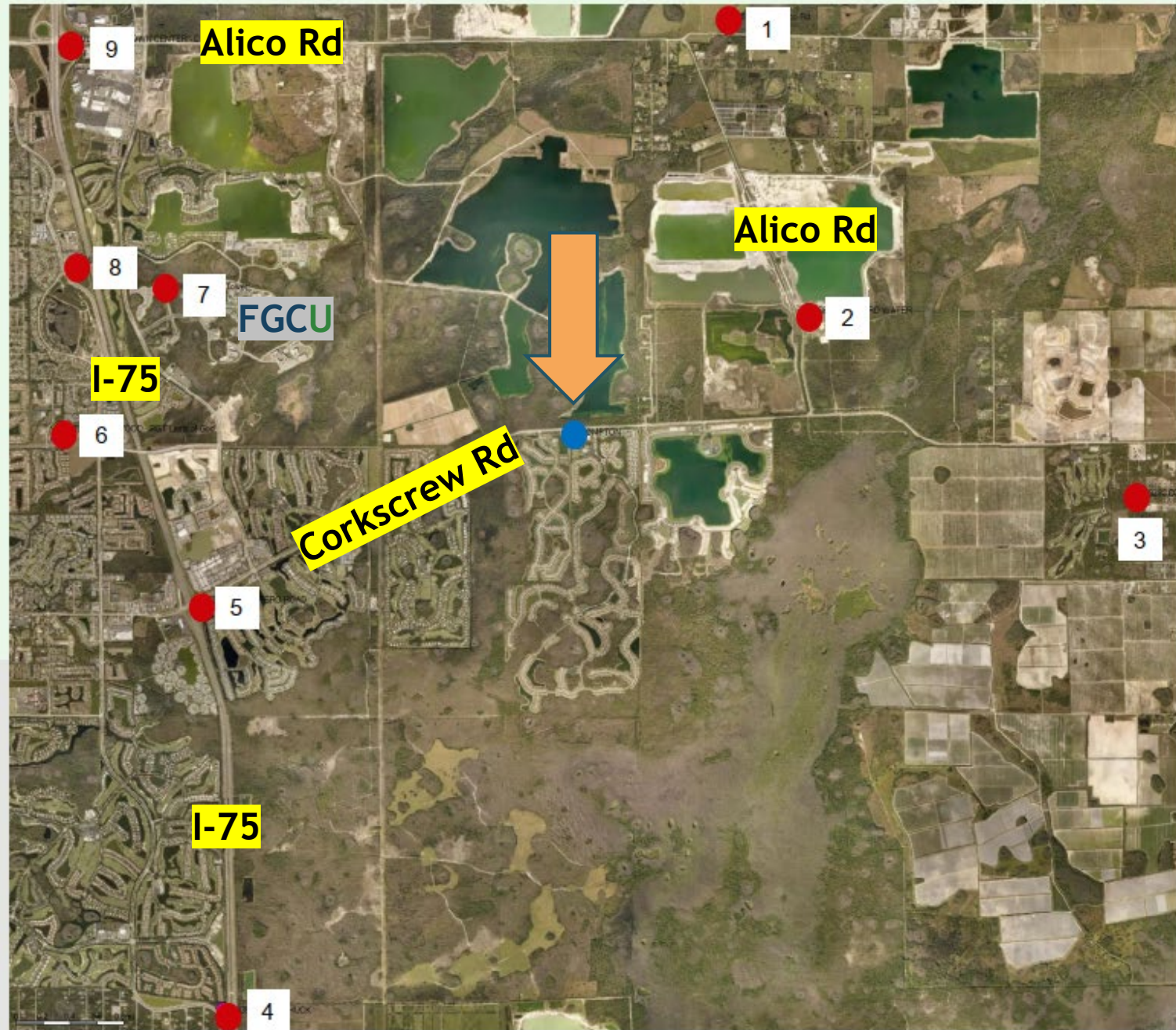
Capacity is the need for more wireless resources. Cell sites have a limited amount of resources to handle voice calls, data connections, and data volume. When these limits are reached, user experience quickly degrades. This could mean customers may no longer be able to make/receive calls nor be able to browse the internet. It could also mean that webpages will be very slow to download.

Verizon Wireless Existing Sites

Map Site Number	VzW Site Name	Tower Height (ft)	Structure Type	Structure Owner	Latitude	Longitude
1	STI Alico Road	150	Flag/Uni pole	SBA Towers	26.495483	-81.713747
2	Alico Road Water	300	Guyed	Lee County BOCC	26.463961	-81.703894
3	Corkscrew	285	Lattice	Crown Castle	26.444489	-81.664818
4	Woodchuck	110	Flag/Uni pole	SBA Towers	26.388371	-81.773288
5	Int Estero Road	234	Lattice	State of Florida	26.432442	-81.77642
6	RGT Lamb of God	149	Monopole	American Towers Corp.	26.450753	-81.793254
7	FGCU Tower	285	Lattice	Lee County BOCC	26.466139	-81.781
8	FGCU	140	Flag/Uni pole		26.468883	-81.79105
9	Gulf Coast Town	108	Monopole	RowStar, LLC	26.492596	-81.792209
Proposed	Compton	149	Monopole	TBD	26.450666	-81.731589

Verizon Wireless Sites

- Existing Site
- Proposed Site

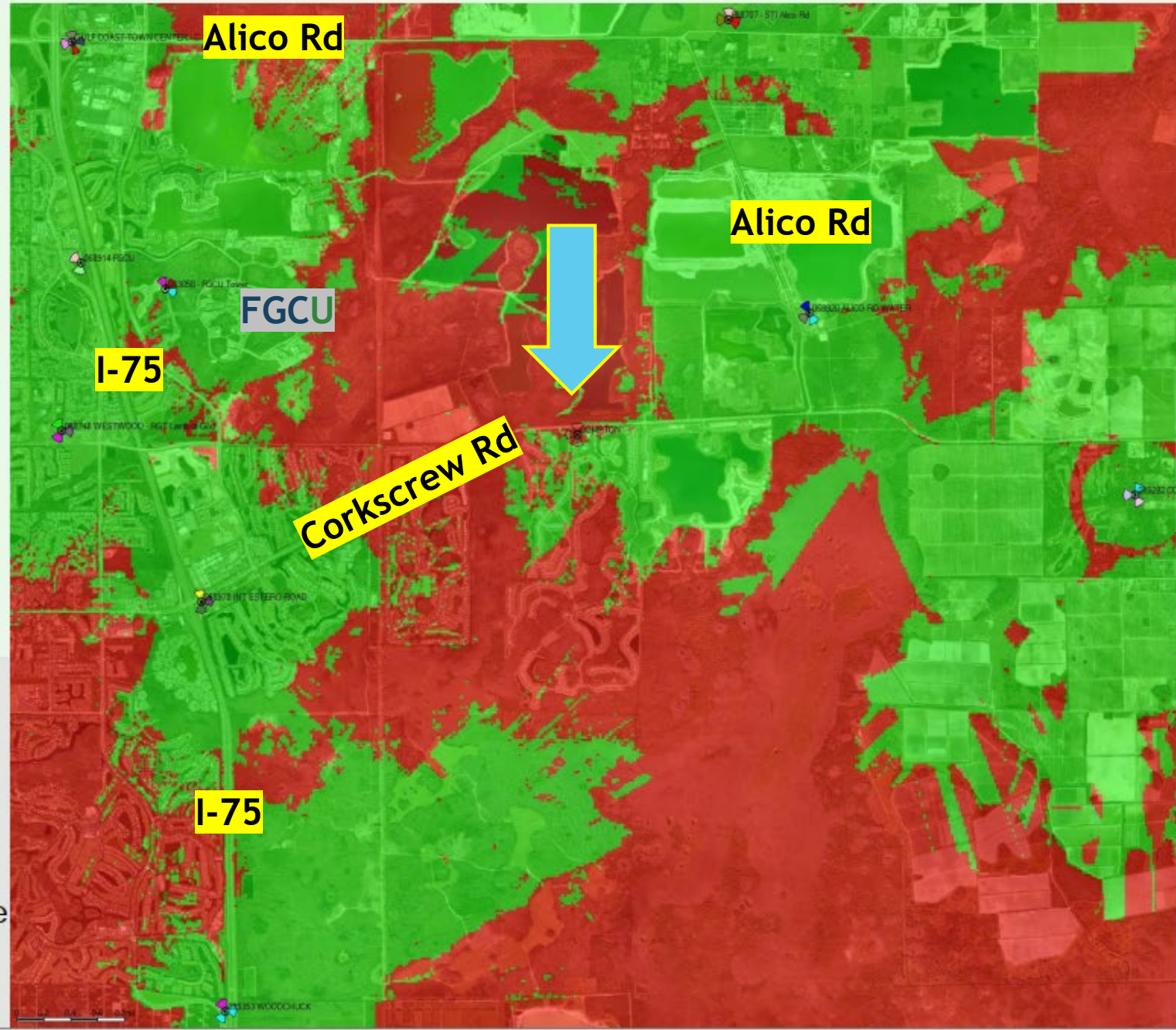


Verizon Wireless Sites Plus Search Area

- Existing Site
- Proposed Site
- Search Area



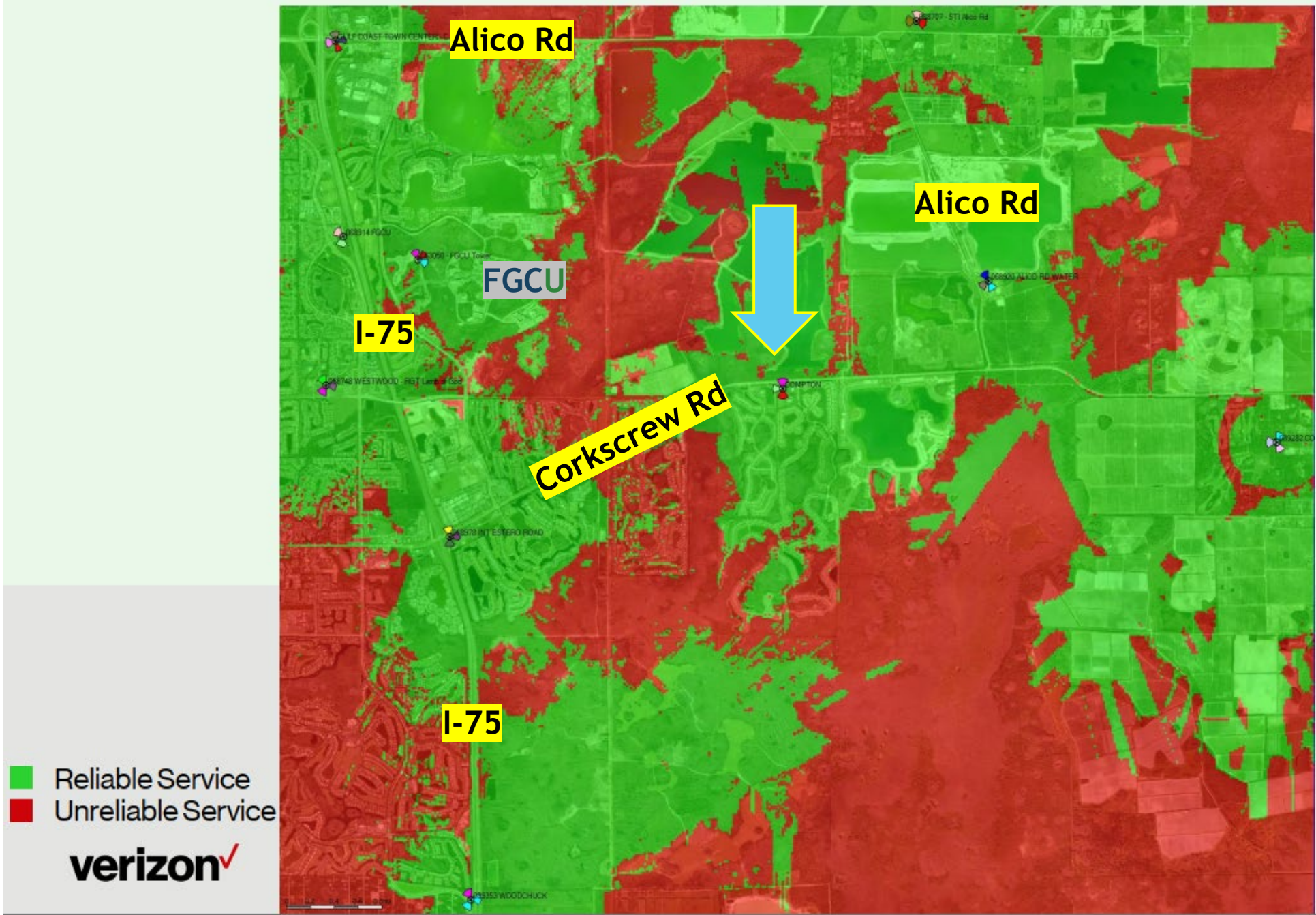
Current AWS Band Coverage



Reliable Service
Unreliable Service



Proposed AWS Band Coverage



■ Reliable Service
■ Unreliable Service

verizon✓

What's the Process?

- ▶ **Broadus held a two-day community meeting on 8/10 and 8/11.**
- ▶ Broadus Towers has filed for a Planned Development Amendment application with the Village of Estero and staff is currently reviewing
- ▶ Village Staff is reviewing the application for compliance with the Village code
- ▶ Another notice will be sent out and a test balloon will be flown
- ▶ The Planning and Zoning Design Board will hold a public hearing on the Monopole, members of the public will be welcome to speak.'
- ▶ The Village Council will then hold a public hearing on the Monopole for final decision, members of the public will be welcome to speak.'

Contact Information:

- ▶ **Village Staff: (Please email Village Staff with your thoughts on this project)**
 - ▶ Matt Noble, AICP
 - ▶ P: 239.221.5036
 - ▶ E: noble@estero-fl.gov

- ▶ **Applicant: (I'm happy to answer any questions that come up as we proceed)**
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Thank You For Your Time





Importance of Wireless coverage to Homeowners and Buyers

A dozen years ago, a mere 3 percent of U.S. households used only cellphones. Given the trend, officials believe more than half of the U.S. homes will be wireless within the next year".
(Centers for Disease Control, December 1, 2015)

The number of wireless only American households has grown from roughly 16% in 2007.
(CTIA, Super Mobility Week Conference, 2015)

More than 47 percent of American homes use only cellphones.
(Centers for Disease Control, December 1, 2015)

A recent survey found that cellular service is of major importance to homebuyers. (76%) was more important than schools (60%) when looking for a home. Cellular coverage trailed only crime rates (96%), local taxes (90%), and amenities like parks and shops (84%).
(RootMetrics/Money, June 2, 2015)

90% of US households use wireless service. With this increase demand from users at home and those who work from home comes the need for more facilities to meet the customer needs. Citizens need access to 911 and reverse 911 and wireless may be their only connection.
(CTIA, June 2015)

In a recent survey, 83% of millennials (Those born between 1982 and 2004) said cell service was the most important fact in purchasing a home.
(Money, June 2, 2015)

Younger people rely more on wireless, too: About 71 percent of people in their late 20s live in households with only cellphones. Only 19 percent of people 65 and older use only cellphones".
(Centers for Disease Control, December 1, 2015)

"...the fastest type of high speed Internet available, can add \$5,437 to the price of a \$175,000 home—about as much as a fireplace, or half the value of a bathroom."
(WSJ, "How Fast Internet Affects Home Prices", June 30, 2015")



Safety E911

- Verizon Wireless has battery backup at a majority of its facilities. This is a critical element to keeping a site operating during a natural disaster or other emergency.
- 76% of 911 calls originate from a cell phone (National Highway Traffic Administration, February, 2016)
- 240 million 911 calls are made annually from wireless phones. (Answers, March 2015)
- It is common that emergency services can have a 3:1 usages of wireless devices. They can utilize phones (as they are more reliable than some radio services), aircards for their incar computers, and feeds to cameras in snow plows.
- Verizon Wireless is the primary communication source for numerous federal, state, and local emergency service organizations. It is critical that these groups have the coverage and capacity in their wireless networks to meet their E911 and other needs.

RF Safety

▶ **FCC:**

- ▶ <https://www.fcc.gov/engineering-technology/electromagnetic-compatibility-division/radio-frequency-safety/faq/rf-safety>
- ▶ <http://www.fcc.gov/guides/wireless-devices-and-health-concerns>

▶ **FDA:**

- ▶ <http://www.fda.gov/Radiation-EmittingProducts/RadiationEmittingProductsandProcedures/HomeBusinessandEntertainment/CellPhones/ucm116335.htm>

▶ **World Health Organization:**

- ▶ <http://www.who.int/mediacentre/factsheets/fs193/en/>

▶ **The National Cancer Institute:**

- ▶ <http://www.cancer.gov/cancertopics/causes-prevention/risk-factors/radiation/cell-phones-fact-sheet>