TOWER
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April 29, 2014

Styers, Kemerait & Mitchell, PLLC
1101 Haynes Street, Suite 101
Raleigh, North Carolina 27604

Attention: Ms. Karen Kemerait

Subject: Balloon Test Letter Report
Proposed 195-ft (199-ft w/ appurtenances) Monopole Communications Tower
American Tower Site: Farrington NC
American Tower Site #: 280422
AT&T Site #: 368-317
Chapel Hill, NC (Chatham County)

Dear Ms. Kemerait:

Tower Engineering Professionals, Inc. (TEP) of Raleigh, NC completed a balloon test for a proposed monopole communications tower facility that will be located at 464 Old Farrington Road, south of the Town of Chapel Hill in Chatham County, NC. The proposed tower facility will be located on a parcel of real estate owned by Lester Ray Porter that is identified as Parcel ID # 9796-33-9976. The balloon flight was conducted for the proposed tower height of 199-ft AGL on the morning of April 17, 2014 in order to assess the potential visual impact that the proposed communications tower may have on the surrounding area of potential effect (APE).

The balloon test was performed on April 17, 2014 from ~7:00AM to 8:00AM. The balloon test photographs were taken from ~7:15AM to 7:45AM. The weather at the time of the balloon flight consisted of temperatures ranging from ~35° to ~40° Fahrenheit. The atmospheric conditions were clear with 5-7 mph winds from the north during the balloon flight. TEP personnel deployed an approximately 10' long x 4'-1" wide yellow blimp with blue fins at an elevation of 199-ft above ground level (AGL). Based on the minimal amount of displacement of the blimp associated with the above referenced wind speeds at the time of the balloon test photographs, it is the opinion of TEP that the balloon flight is an accurate depiction of the proposed tower elevation AGL. The photographs were taken with a Nikon D3000 SLR Digital Camera set at 35mm, in an attempt to most accurately mimic the view of the human eye.

3703 Junction Blvd. Raleigh, NC 27603-5263 O) (919) 661-6351 F) (919) 661-6350
gswearingen@tepgroup.net

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Balloon Flight

The balloon flight was conducted at the proposed tower centerline, approximately 325-ft southeast of a portion of Old Farrington Road. According to the construction drawings provided to TEP by the client dated January 22, 2014 the proposed tower will be located within a forested area at:

Latitude: N 35° 50' 55.255" (NAD 83)
Longitude: W 79° 01' 13.600" (NAD 83)
Elevation: ~282.1-ft AMSL

Balloon Flight	***Approximate Location:***	***Distance from proposed structure:***
Photo #1	Intersection of Mt. Carmel Church Rd. & Governor's Dr. (N35° 51' 14.90", W79° 1' 35.06")	~0.5 miles
Photo #2	Intersection of Moring & Village Park Dr. (N35° 51' 6.23", W79° 1' 30.08")	~0.34 miles
Photo #3	10005 Fountain (N35° 51' 10.71", W79° 1' 18.23")	~0.3 miles
Photo #4	Intersection of Magnolia Dr. & Whippoorwill Ln. (N35° 51' 16.58", W79° 1' 13.39")	~0.4 miles
Photo #5	Intersection of Twin Branch Ln. & Raintree Bend (N35° 51' 18.23", W79° 0' 56.47")	~0.51 miles
Photo #6	Intersection of Old Farrington Point Rd. & Whippoorwill Ln. (N35° 51' 8.87", W79° 1' 7.56")	~0.27 miles
Photo #7	473 Whippoorwill Ln. (N35° 50' 56.22", W79° 1' 1.57")	~0.19 miles
Photo #8	1120 Whippoorwill Ln. (N35° 50' 48.86", W79° 1' 0.72")	~0.23 miles
Photo #9	Oakley Farm Road (N35° 50' 37.26", W79° 1' 6.80")	~0.36 miles
Photo #10	Intersection of Old Farrington Point Road & Mt. Carmel Church Rd. (N35° 50' 44.28", W79° 1' 33.70")	~0.38 miles
Photo #11	Intersection of Reynolds Ct. & Wicker Drive. (N35° 51' 4.78", W79° 1' 17.63")	~0.19 miles

TEP personnel obtained numerous photographs from each of the aforementioned locations in an attempt to provide an accurate depiction of the view of the proposed tower facility from the surrounding area. Photographs were taken for the balloon flight and their corresponding locations are depicted on the additional photo location map provided. Ninety (90)

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photographs were obtained from multiple locations surrounding the proposed tower site; of the ninety (90) photographs, eleven (11) were selected for inclusion in this report. Additionally, four (4) photographs were selected and photo simulations were rendered depicting the proposed 195-ft (199-ft with appurtenances) monopole tower from the desired locations.

Please don't hesitate to contact me if there are any questions or concerns with regards to the balloon test report for the proposed undertaking.

Regards,

George T. Swearingen, III
Division Manager - Environmental

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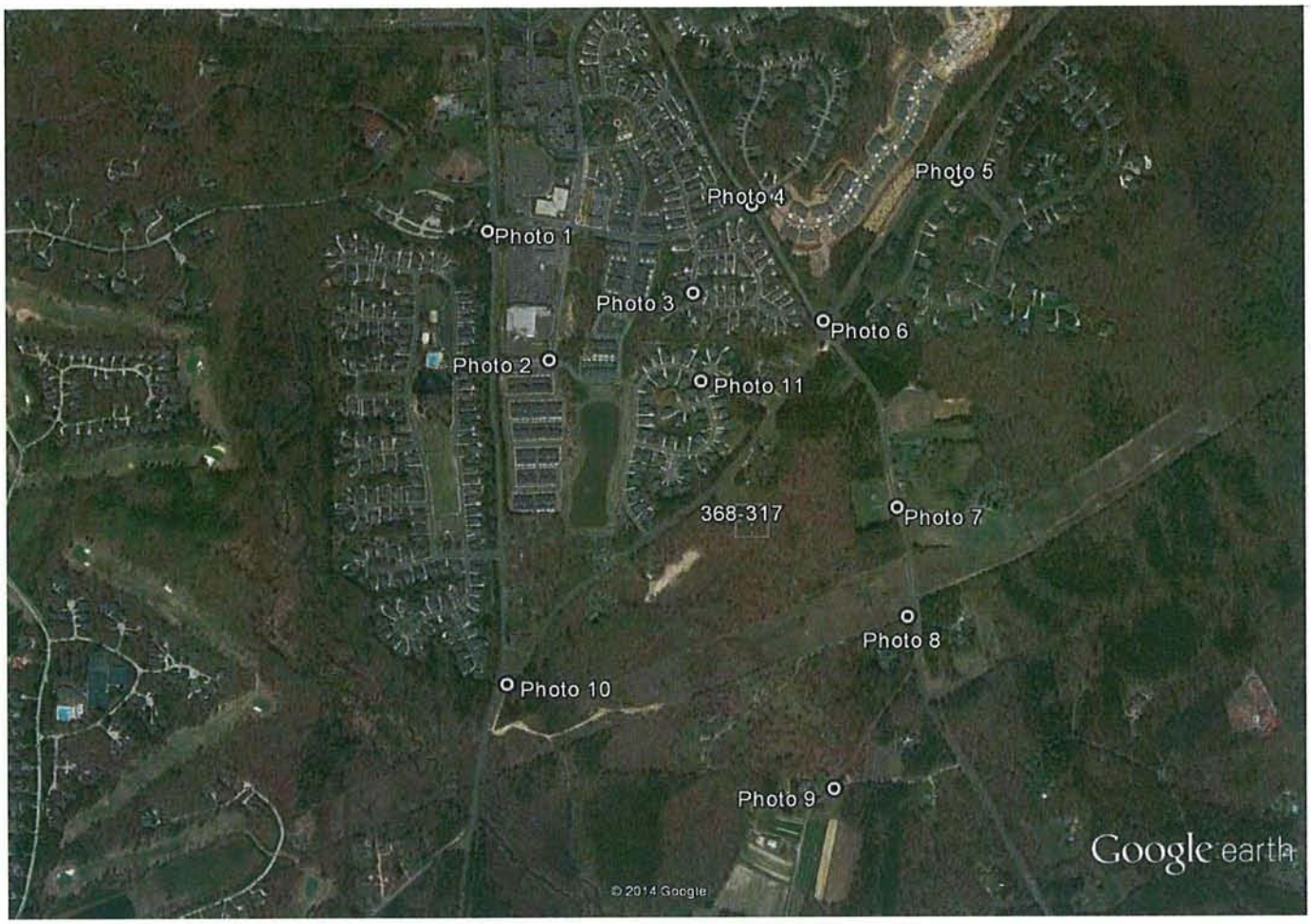
Farrington NC (ATC#-280422) (AT&T#-368-317)

Balloon Test Results		
Photo Location	**Location**	**Result**
1	Intersection of Mt. Carmel Church Rd. & Governor's Dr. (N35° 51' 14.90", W79° 1' 35.06")	Visible
2	Intersection of Moring & Village Park Dr. (N35° 51' 6.23", W79° 1' 30.08")	Visible
3	10005 Fountain (N35° 51' 10.71", W79° 1' 18.23")	Visible
4	Intersection of Magnolia Dr. & Whippoorwill Ln. (N35° 51' 16.58", W79° 1' 13.39")	Not Visible
5	Intersection of Twin Branch Ln. & Raintree Bend (N35° 51' 18.23", W79° 0' 56.47")	Visible
6	Intersection of Old Farrington Point Rd. & Whippoorwill Ln. (N35° 51' 8.87", W79° 1' 7.56")	Visible
7	473 Whippoorwill Ln. (N35° 50' 56.22", W79° 1' 1.57")	Visible
8	1120 Whippoorwill Ln. (N35° 50' 48.86", W79° 1' 0.72")	Visible
9	Oakley Farm Road (N35° 50' 37.26", W79° 1' 6.80")	Partially Visible
10	Intersection of Old Farrington Point Road & Mt. Carmel Church Rd. (N35° 50' 44.28", W79° 1' 33.70")	Not Visible
11	Intersection of Reynolds Ct. & Wicker Drive. (N35° 51' 4.78", W79° 1' 17.63")	Visible



Google earth

feet 4000

km 1

PHOTO LOCATION 1

CURRENT VIEW WITH BALLOON

AMERICAN TOWER

SITE NAME: FARRINGTON NC
AT&T SITE#: 368-317 - ATC SITE #: 280422
SITE ADDRESS:
464 OLD FARRINGTON RD N35° 50' 55.255", W79° 01' 13.600"
VIEW FROM:
PHOTO LOCATION 1 (SEE MAP BELOW)
~N35° 51' 14.90", W79° 1' 35.06"

PHOTO RENDERING

PHOTO RENDERING PROVIDED BY TOWER ENGINEERING PROFESSIONALS, INC.

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PHOTO LOCATION 2

CURRENT VIEW WITH BALLOON

BALLOON VISIBLE

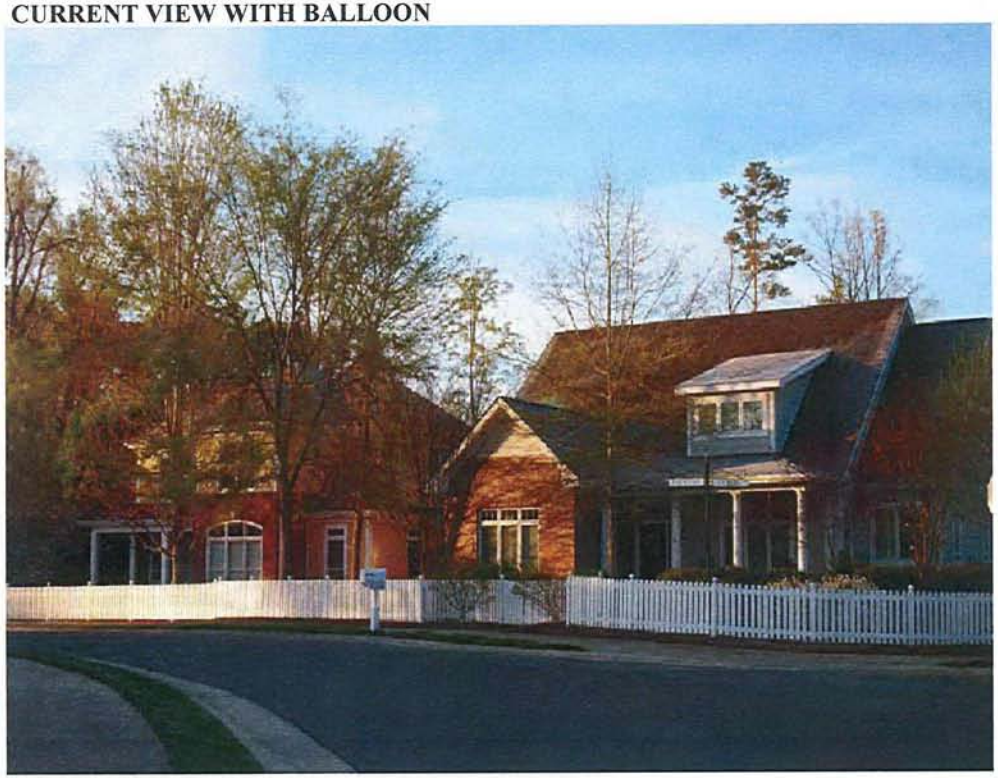
AMERICAN TOWER

SITE NAME: FARRINGTON NC
AT&T SITE#: 368-317 - ATC SITE #: 280422
SITE ADDRESS:
464 OLD FARRINGTON RD N35° 50' 55.255", W79° 01' 13.600"
VIEW FROM:
PHOTO LOCATION 2 (SEE MAP BELOW)
~N35° 51' 6.23", W79° 1' 30.08"

PHOTO PROVIDED BY TOWER ENGINEERING PROFESSIONALS, INC.

PHOTO LOCATION 3

CURRENT VIEW WITH BALLOON



BALLOON VISIBLE

AMERICAN TOWER

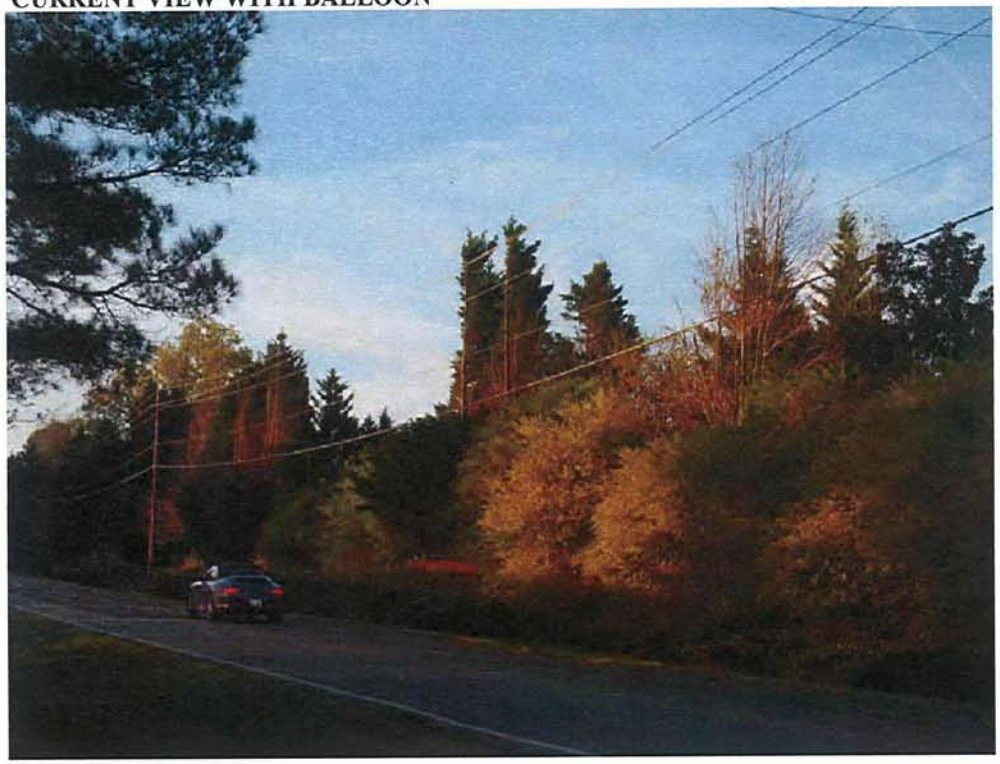
SITE NAME: FARRINGTON NC
AT&T SITE#: 368-317 - ATC SITE #: 280422
SITE ADDRESS:
464 OLD FARRINGTON RD N35° 50' 55.255", W79° 01' 13.600"
VIEW FROM:
PHOTO LOCATION 3 (SEE MAP BELOW)
~N35° 51' 10.71", W79° 1' 18.23"

PHOTO PROVIDED BY TOWER ENGINEERING PROFESSIONALS, INC.

FOUNTAIN
CREEK

PHOTO LOCATION 4

CURRENT VIEW WITH BALLOON



BALLOON NOT VISIBLE

AMERICAN TOWER

SITE NAME: FARRINGTON NC
AT&T SITE#: 368-317 - ATC SITE #: 280422
SITE ADDRESS:
464 OLD FARRINGTON RD N35° 50' 55.255", W79° 01' 13.600"
VIEW FROM:
PHOTO LOCATION 4 (SEE MAP BELOW)
~N35° 51' 16.58", W79° 1' 13.39"

PHOTO PROVIDED BY TOWER ENGINEERING PROFESSIONALS, INC.

PHOTO LOCATION 5

CURRENT VIEW WITH BALLOON

BALLOON VISIBLE

AMERICAN TOWER

SITE NAME: FARRINGTON NC
AT&T SITE#: 368-317 - ATC SITE #: 280422
SITE ADDRESS:
464 OLD FARRINGTON RD N35° 50' 55.255", W79° 01' 13.600"
VIEW FROM:
PHOTO LOCATION 5 (SEE MAP BELOW)
~N35° 51' 18.23", W79° 0' 56.47"

PHOTO PROVIDED BY TOWER ENGINEERING PROFESSIONALS, INC.

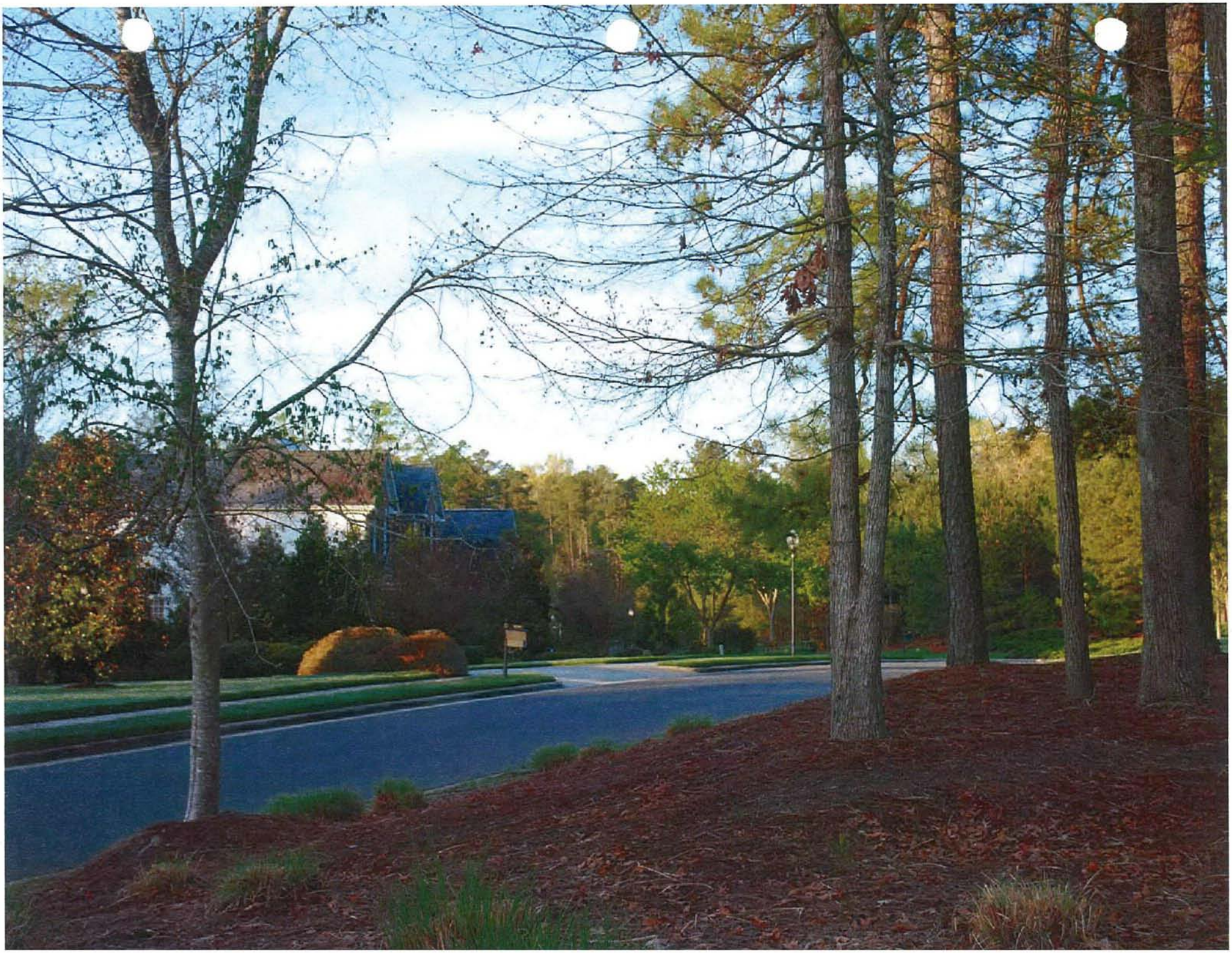
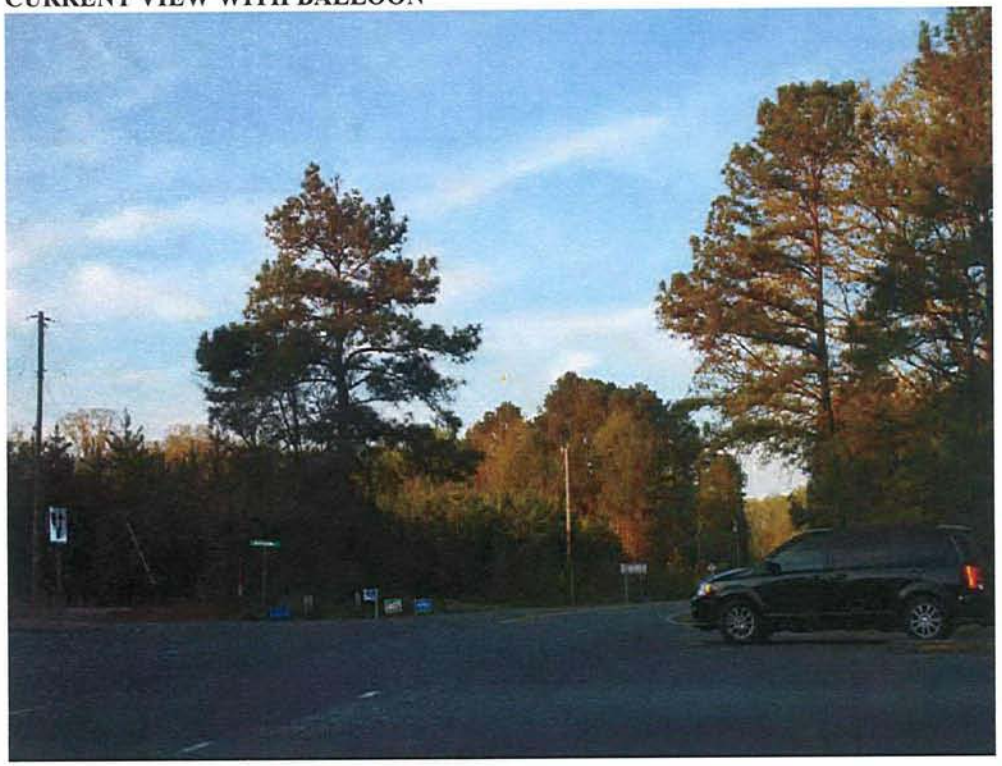


PHOTO LOCATION 6

CURRENT VIEW WITH BALLOON



AMERICAN TOWER

SITE NAME: FARRINGTON NC
AT&T SITE#: 368-317 - ATC SITE #: 280422
SITE ADDRESS:
464 OLD FARRINGTON RD N35° 50' 55.255", W79° 01' 13.600"
VIEW FROM:
PHOTO LOCATION 6 (SEE MAP BELOW)
~N35° 51' 8.87", W79° 1' 7.56"

PHOTO RENDERING

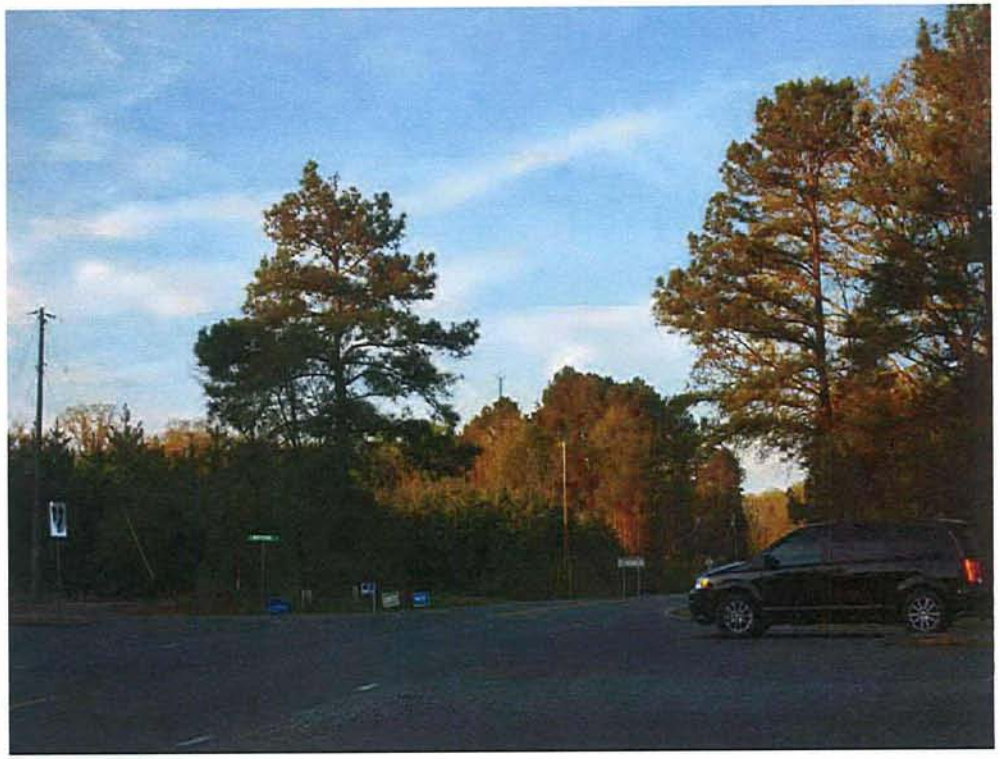


PHOTO RENDERING PROVIDED BY TOWER ENGINEERING PROFESSIONALS, INC.

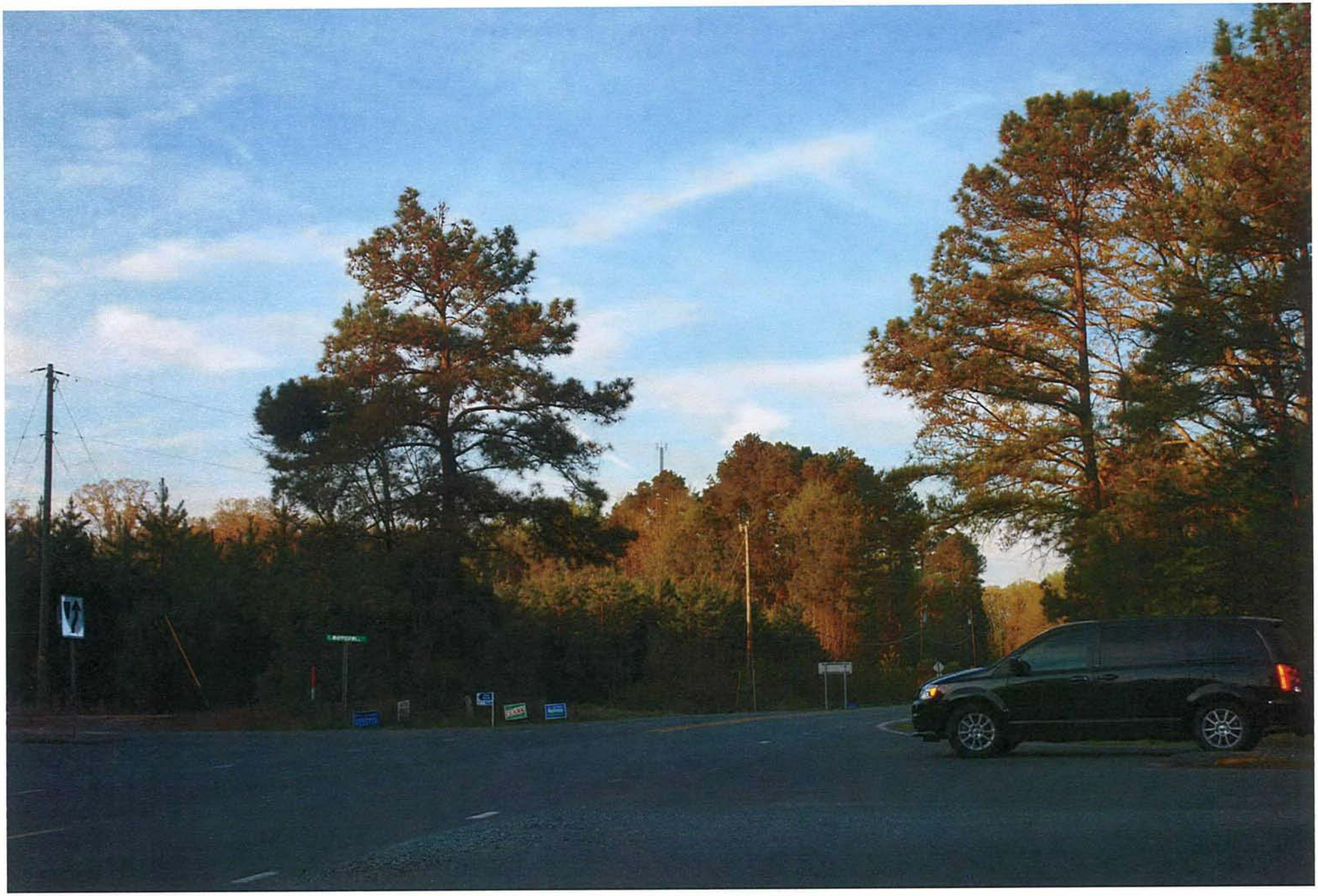


PHOTO LOCATION 7

CURRENT VIEW WITH BALLOON

BALLOON VISIBLE

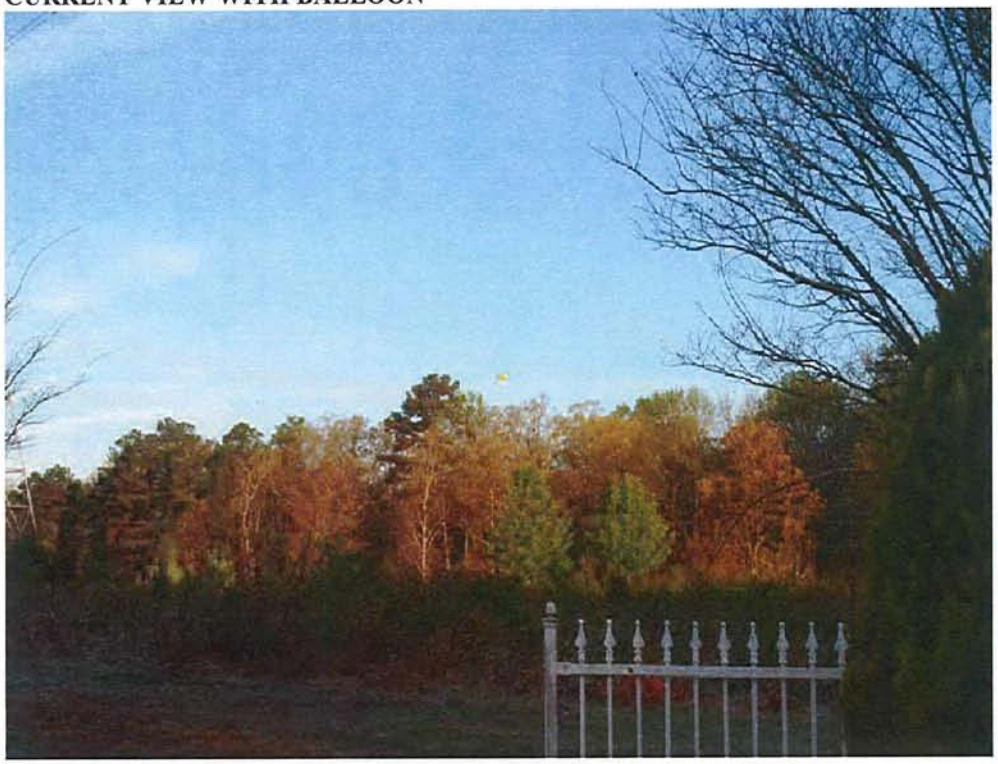
AMERICAN TOWER

SITE NAME: FARRINGTON NC
AT&T SITE#: 368-317 - ATC SITE #: 280422
SITE ADDRESS:
464 OLD FARRINGTON RD N35° 50' 55.255", W79° 01' 13.600"
VIEW FROM:
PHOTO LOCATION 7 (SEE MAP BELOW)
~N35° 50' 56.22", W79° 1' 1.57"

PHOTO PROVIDED BY TOWER ENGINEERING PROFESSIONALS, INC.

PHOTO LOCATION 8

CURRENT VIEW WITH BALLOON



AMERICAN TOWER

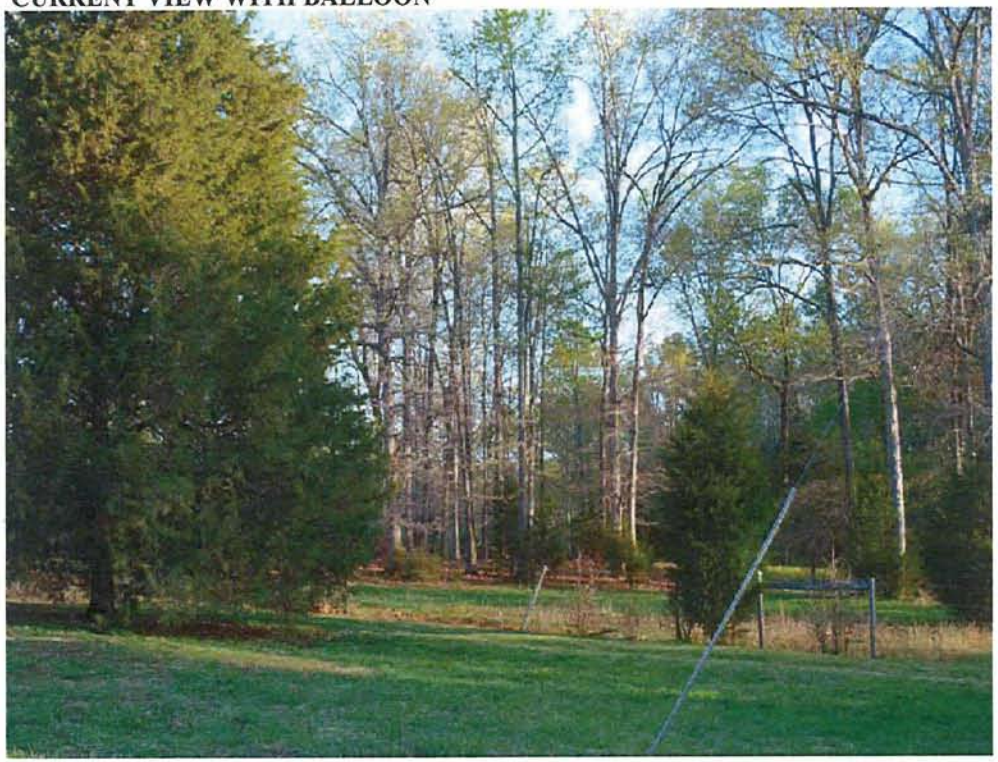
SITE NAME: FARRINGTON NC
AT&T SITE#: 368-317 - ATC SITE #: 280422
SITE ADDRESS:
464 OLD FARRINGTON RD N35° 50' 55.255", W79° 01' 13.600"
VIEW FROM:
PHOTO LOCATION 8 (SEE MAP BELOW)
~N35° 50' 48.86", W79° 1' 0.72"

PHOTO RENDERING

PHOTO RENDERING PROVIDED BY TOWER ENGINEERING PROFESSIONALS, INC.

PHOTO LOCATION 9

CURRENT VIEW WITH BALLOON



BALLOON PARTIALLY VISIBLE

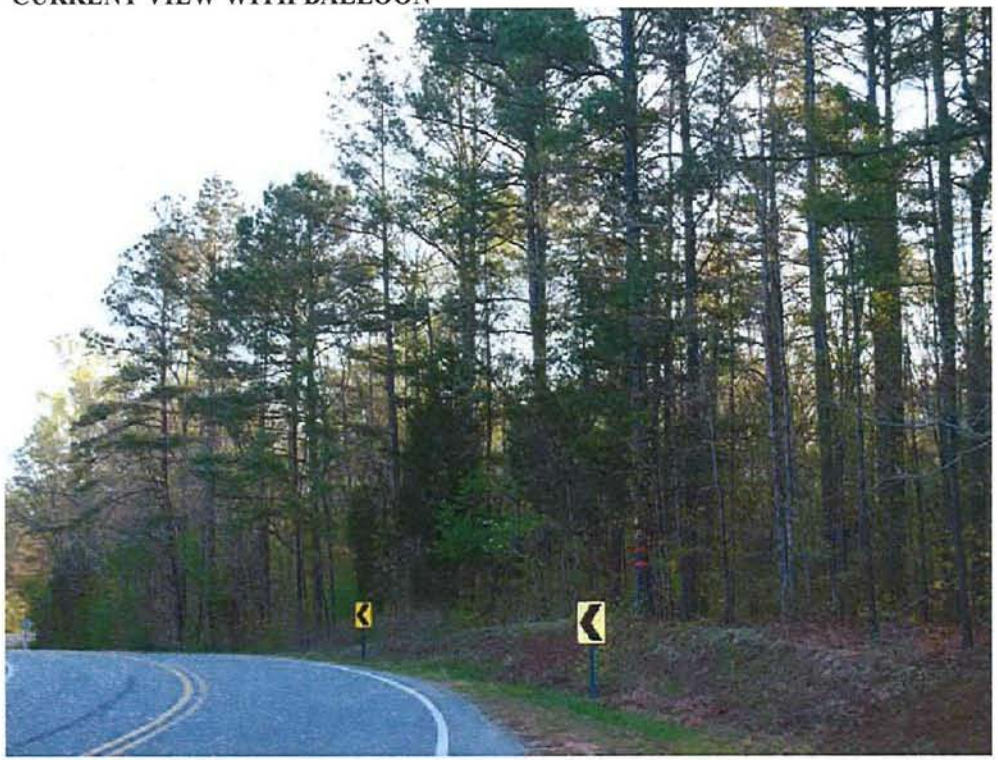
AMERICAN TOWER

SITE NAME: FARRINGTON NC
AT&T SITE#: 368-317 - ATC SITE #: 280422
SITE ADDRESS:
464 OLD FARRINGTON RD N35° 50' 55.255", W79° 01' 13.600"
VIEW FROM:
PHOTO LOCATION 9 (SEE MAP BELOW)
~N35° 50' 37.26", W79° 1' 6.80"

PHOTO PROVIDED BY TOWER ENGINEERING PROFESSIONALS, INC.

PHOTO LOCATION 10

CURRENT VIEW WITH BALLOON



BALLOON NOT VISIBLE

AMERICAN TOWER

SITE NAME: FARRINGTON NC
AT&T SITE#: 368-317 - ATC SITE #: 280422
SITE ADDRESS:
464 OLD FARRINGTON RD N35° 50' 55.255", W79° 01' 13.600"
VIEW FROM:
PHOTO LOCATION 10 (SEE MAP BELOW)
~N35° 50' 44.28", W79° 1' 33.70"

PHOTO PROVIDED BY TOWER ENGINEERING PROFESSIONALS, INC.

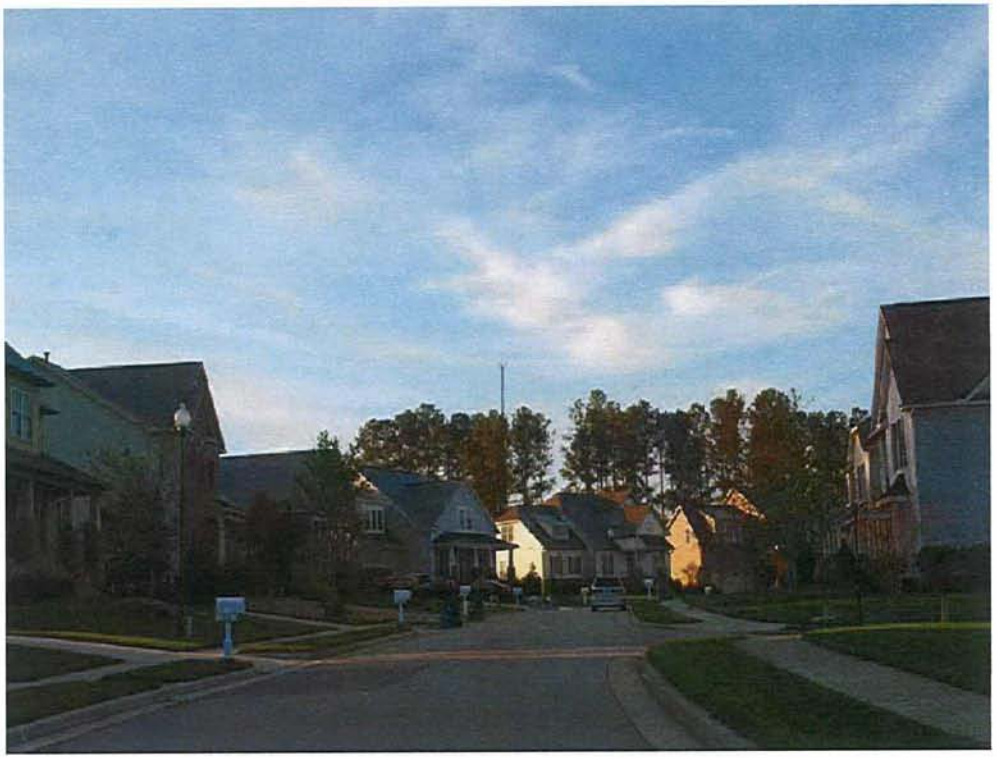
PHOTO LOCATION 11

CURRENT VIEW WITH BALLOON

AMERICAN TOWER

SITE NAME: FARRINGTON NC
AT&T SITE#: 368-317 - ATC SITE #: 280422
SITE ADDRESS:
464 OLD FARRINGTON RD N35° 50' 55.255", W79° 01' 13.600"
VIEW FROM:
PHOTO LOCATION 11 (SEE MAP BELOW)
~N35° 51' 4.78", W79° 1' 17.63"

PHOTO RENDERING



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