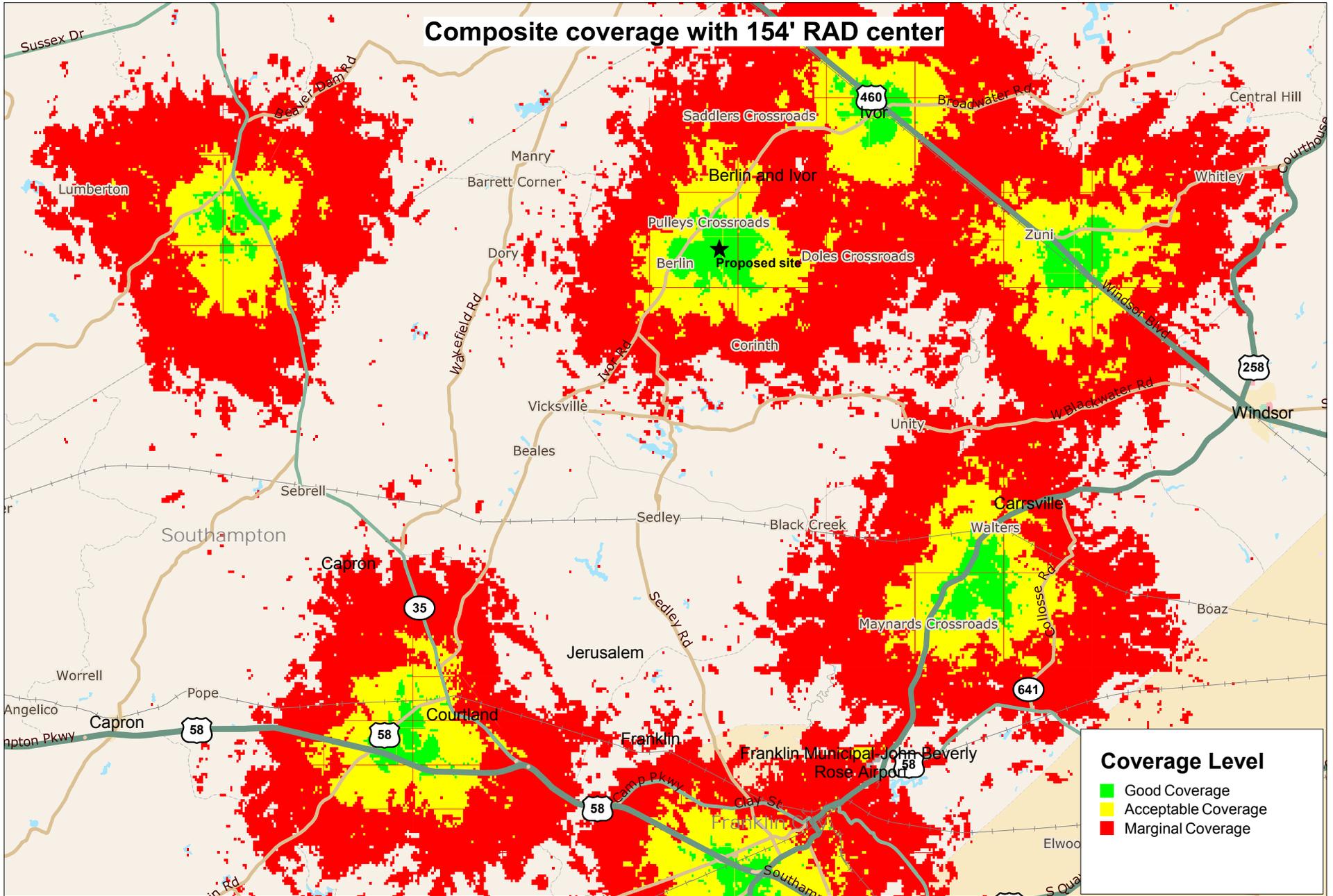
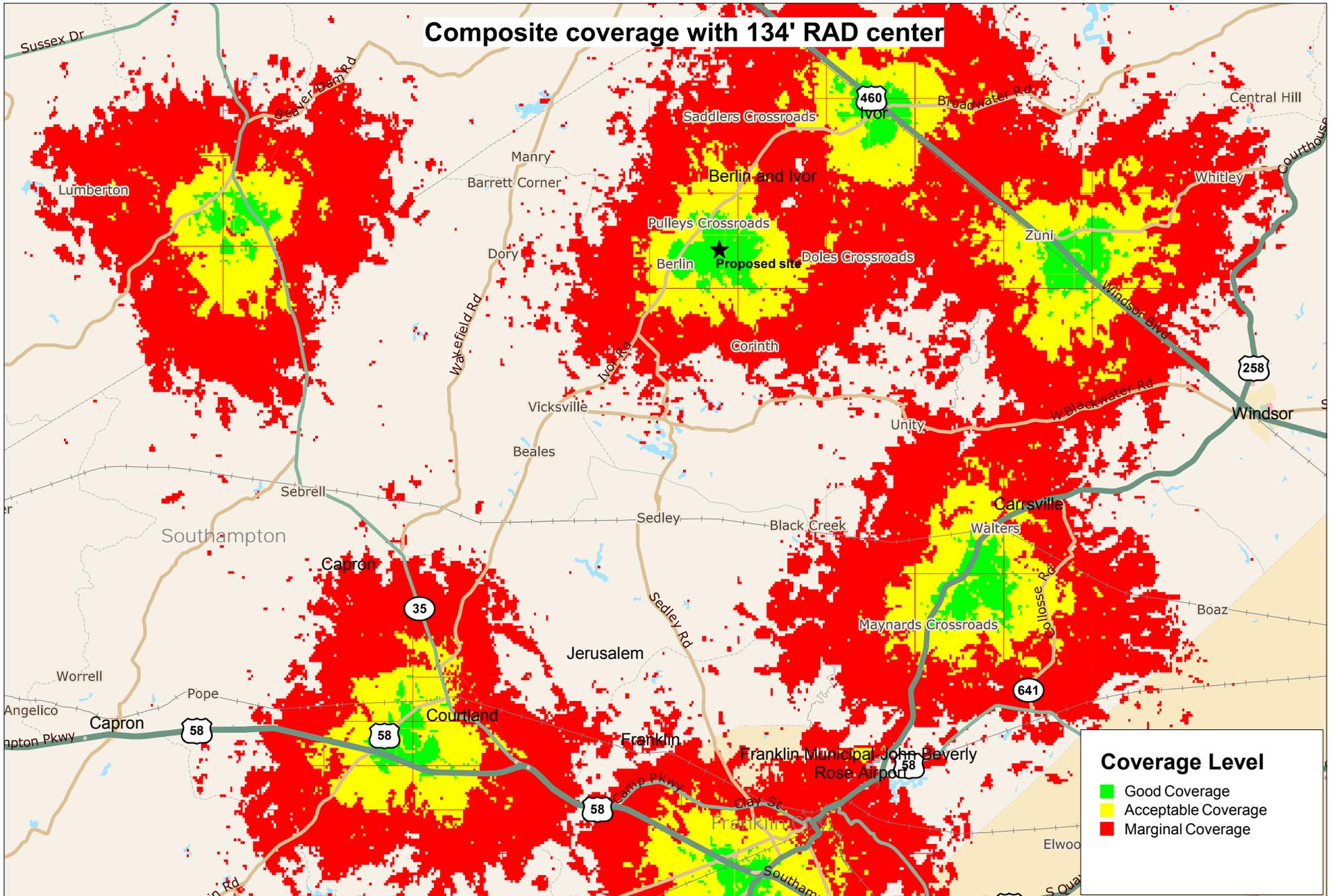


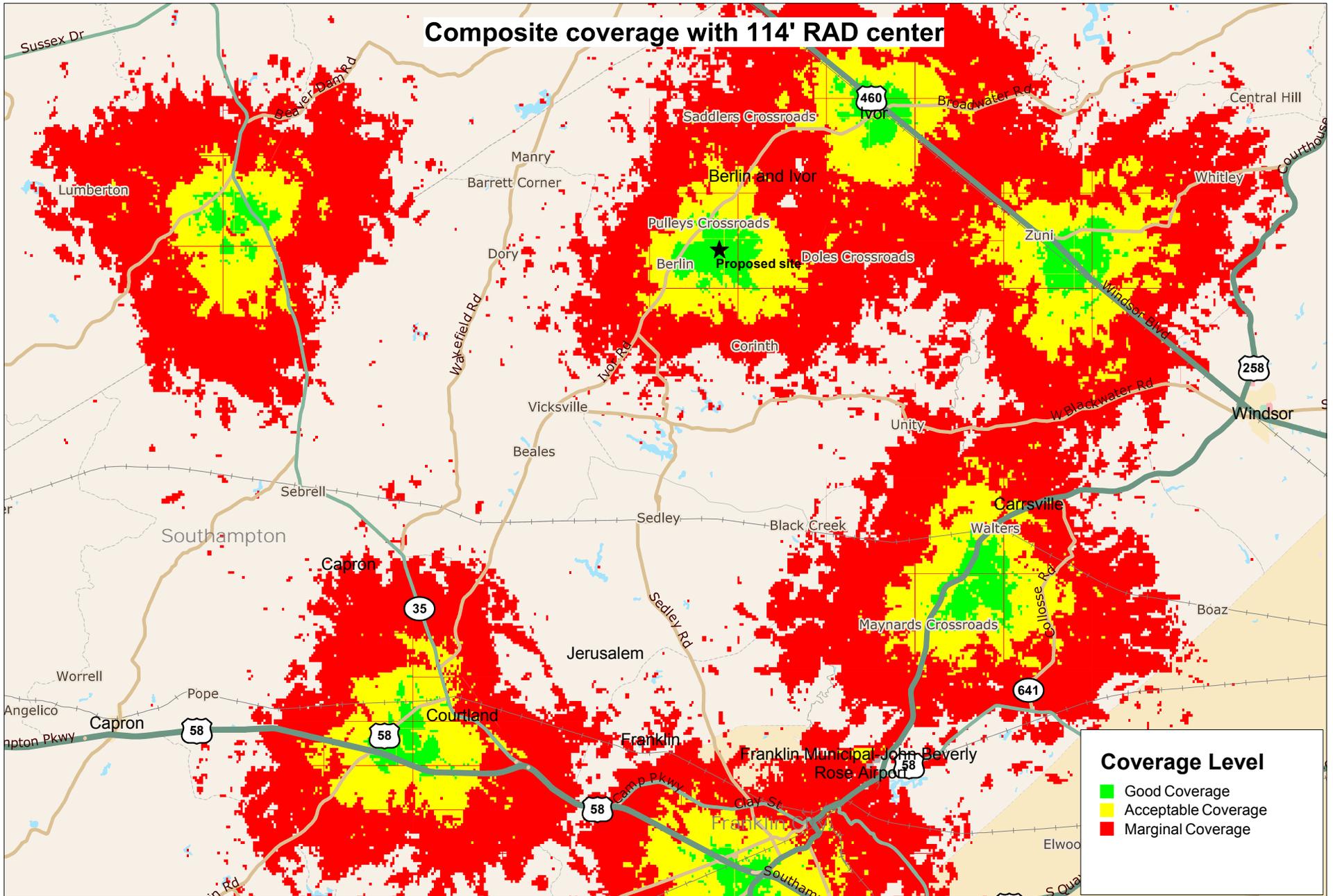
# Composite coverage with 154' RAD center



# Composite coverage with 134' RAD center



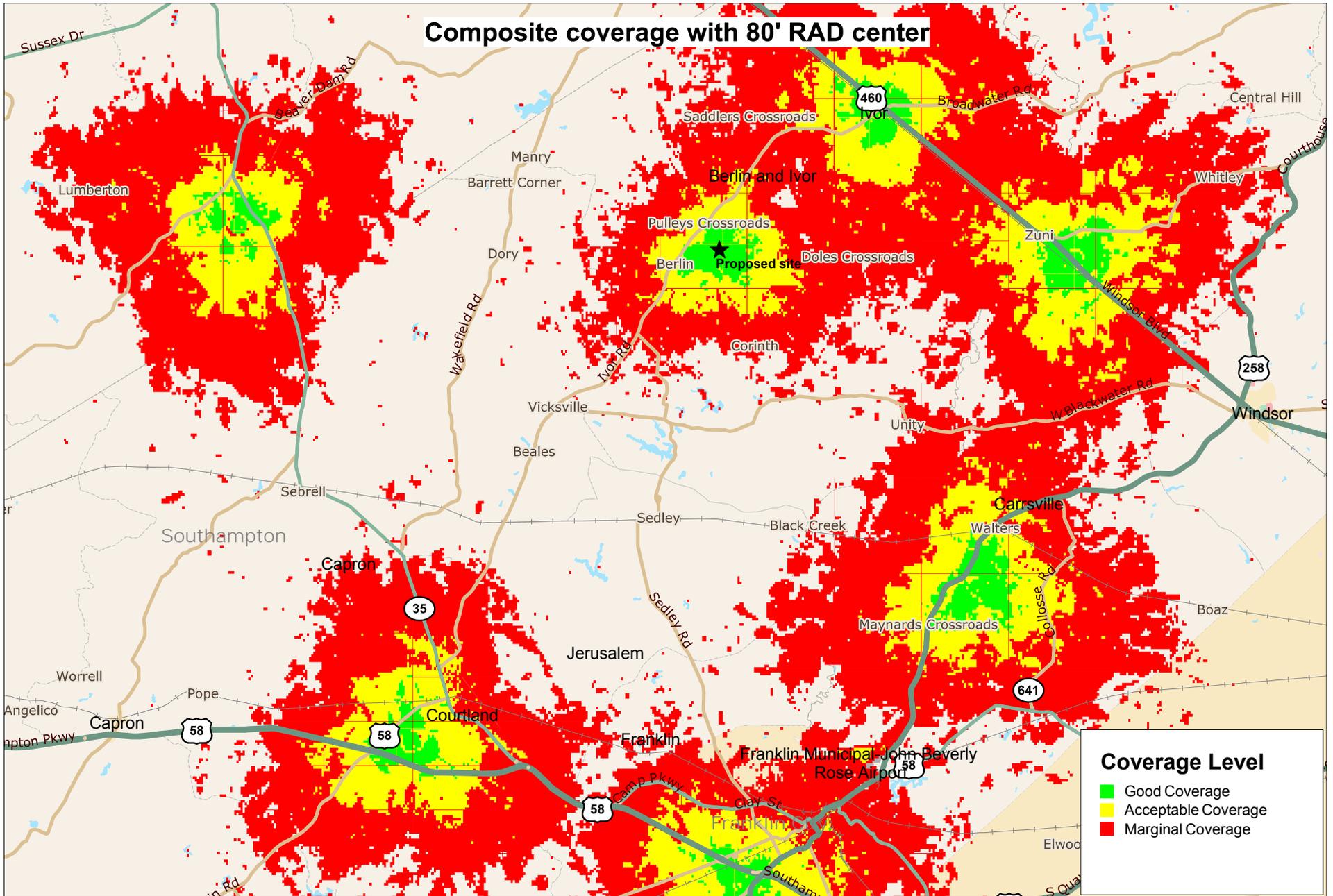
# Composite coverage with 114' RAD center



**Coverage Level**

- Good Coverage
- Acceptable Coverage
- Marginal Coverage

# Composite coverage with 80' RAD center





**SOUTHAMPTON COUNTY, VA  
TECHNICAL REVIEW**

**PROPOSED**

**NEW WIRELESS TELECOMMUNICATIONS  
FACILITY**

**VERIZON WIRELESS**

**At**

**32168 MILLFIELD ROAD  
IVOR, VA 23866**

**Submitted by:**

**ATLANTIC TECHNOLOGY CONSULTANTS, INC.**

A Member of The Atlantic Group of Companies, Inc.

**ATC PROJECT #: 1096-05**

**August 23, 2013**



## **EXECUTIVE SUMMARY:**

Verizon Wireless has made application to the County for the issuance of a Conditional Use Permit to allow construction of a new telecommunications 199' self-support lattice tower at 32168 Ivor, VA 23866 on property owned by Mr. H. Paige Pulley, Jr.

Verizon Wireless is an FCC licensed telecommunications providers authorized and mandated to provide coverage to the Southampton County area, and proposes the addition of a 199' lattice style transmission tower to support service delivery in an area of documented lack of system coverage in the central geographic region of the county.

This report outlines the specific areas of evaluation with respect to this proposal, and this consultant's several recommendations regarding the site plans as presented. Supporting and clarifying evidence regarding the suitability of the proposed design in meeting the specified coverage goals is also included.

In general, it is the opinion of this consultant that this application conforms in letter, spirit, and intent with all Federal, State, and County regulations regarding the construction of telecommunications support structures, represents a sound design, and should therefore be granted approval by way of issuance of the requested special use permit.



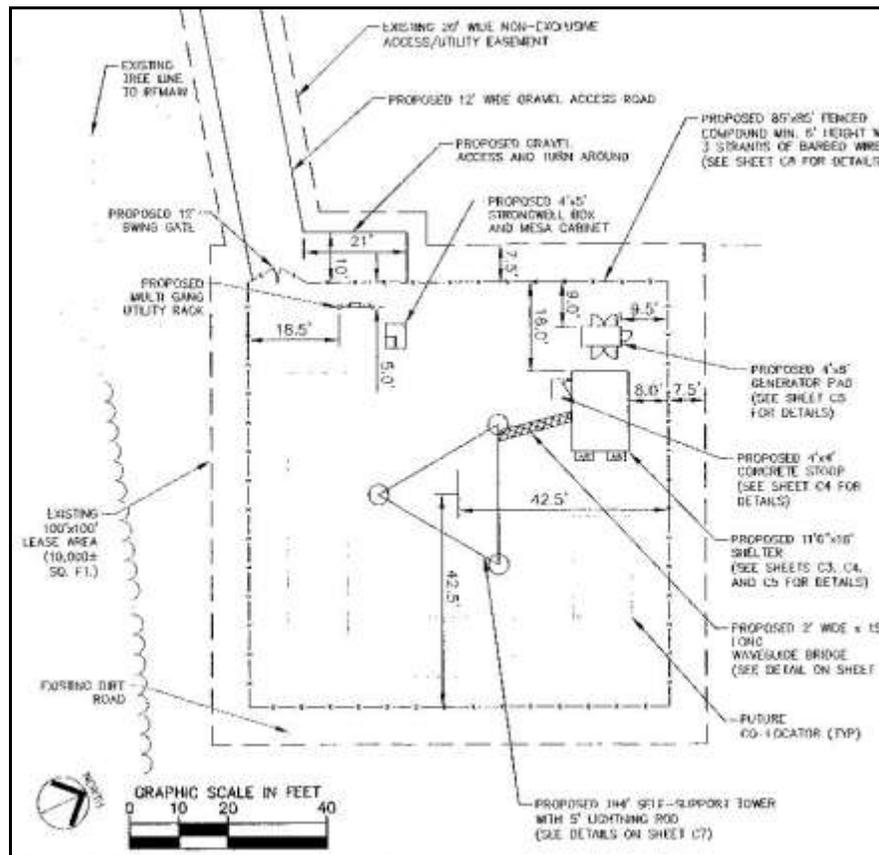
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George N. Condyles, IV CPM  
President and COO  
Atlantic Technology Consultants, Inc.

## 1.0 TECHNICAL:

### 1.1 Siting

The proposed tower site is a 100' x 100' square area on a portion of property south of Route 605/Millfield Road, located on farm land owned by Mr. H. Paige Pulley, Jr. The 85' x 85' chain-link fenced compound will provide ground space for location of the telecommunications equipment and will enclose the foundation of the proposed self-supported tower. The physical site is located at coordinates 36° 51' 42.12" N and 76° 57' 35.07" W on County tax parcel map # 23-14 and is zoned Agriculture, A-1.



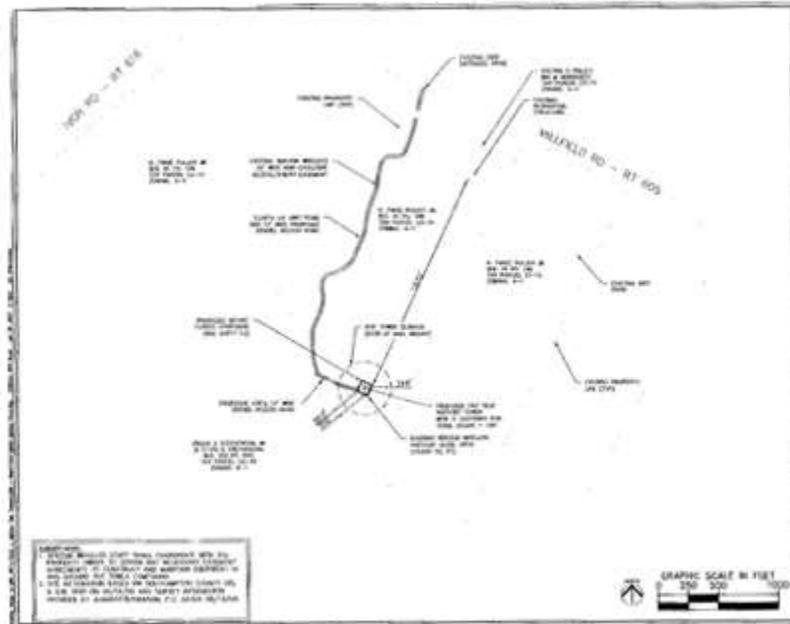
Surrounding tracts are zoned agricultural as well. Site placement as described represents the location of most minimal visual impact. The site is well off the road and placed deep within the property. Landowner approval for this site has been documented and supplied. The collapse zone for this tower is entirely within the proposed site property lines; all required setbacks for this project have been observed.

## 1.2 Setback Requirements

The Applicant's site plans list the setbacks as follows:

### Tower Setback Requirements

	Required	Actual
Front setback.....	220'	2,033'+
Side setback.....	220'	400'+
Side setback.....	220'	1,550'+
Rear setback.....	220'	400'+
Nearest Residence.....	400'	1,500'



## 1.3 Photo Simulations

As per Article XV, Section 18-427, Wireless Telecommunication Facility Regulations, (e) (2), photographs of the site from a minimum of five (5) points surrounding the site, a simulated photographic image of the proposed wireless tower prepared by NB&C Engineering Services, LLC, and a map indicating the location and distance from the point at which the photograph was taken to the proposed site was submitted with the application.

The Consultant has reviewed and concurs with the applicant's Photo simulations.

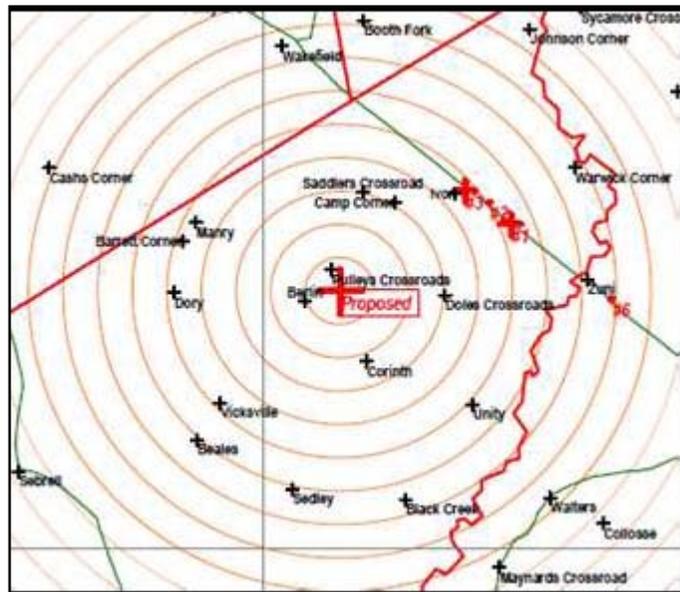
## 1.4 Colocation

While co-location is preferable to construction of a new site, with such co-location minimizing visual impact of telecommunications equipment on the surrounding area no additional sites are available in the area which would meet the Applicant's coverage objectives.

The Applicant has stated in their letter to Southampton County dated July 24, 2013 that:

“Verizon's goal is to provide high quality, seamless coverage with as few new communications towers as possible. The company first looks to existing communications towers or other support structures upon which to co-locate its antennas. In this case, there were no existing tower locations or support structures in the needed search area; therefore, Verizon has chosen a new tower site that is not only crucial to provide improved wireless service to the surrounding citizens but it is also a site that will have limited visibility.”

Verizon Wireless is committed to a policy of collocating on existing towers or other tall structures capable of supporting its communications equipment. A thorough search of the subject area was conducted and no existing towers or structures tall enough to meet the network needs were identified.



The Applicant submitted a map demonstrating their existing, proposed, and future locations to serve Southampton County. As observed by this Consultant

during the site visit the closest existing tower sites to the proposed sites are almost 5 miles to the north on Rt. 460 in Ivor on which they are already located. Therefore, the proposed site is the only viable option to allow the Applicant to meet their coverage needs as demonstrated in their coverage maps submitted with the Application.

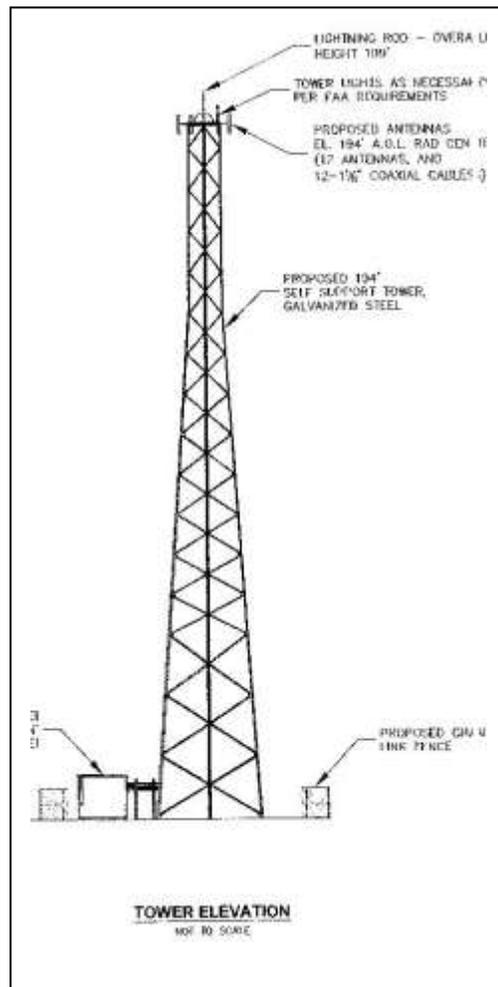
## 1.5 Structural

The proposed 199-foot self-supportive lattice tower design is of high strength steel, and represents a highly stable structural design not known by this consultant to have failed at any installation in this region. This structure, as proposed, shall be in compliance of EIA/TIA-222-G guidelines (the accepted industry standard) for structures which is mandated to withstand the structural loading of all appurtenances, plus additional wind and ice loading. The size of the proposed lattice tower makes this design an ideal choice to support the proposed appurtenances, and yet minimize visual impact

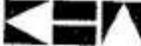
This tower structure, as proposed, would allow room for future co-location of at least five (5) additional wireless carriers on the same site, minimizing the number of towers needed for all wireless telecommunications carriers to eventually optimize service in this area.

Verizon Wireless proposes the addition of sixteen (16) panel-type antennas, sixteen (16) 1 5/8" coax cable of 178'± length, one (1) 11.5'x16' equipment shelter, standby generator and associated utilities.

Furthermore, in conformance with County ordinance, work at this site will remain in compliance with ALL federal, state, and local building codes and regulations if work proceeds as outlined in the application.



## 1.6 Engineer's Certification

 Kimley-Horn and Associates, Inc.	■ Suite 200 1700 Willow Lawn Drive Richmond, Virginia 23230
June 26, 2013	
Department of Planning Southampton County 26022 Administration Center Drive PO Box 400 Courtland, Virginia 23837	
Re: <i>Proposed Verizon Wireless Communication Tower 32168 Millfield Road</i>	
To Whom It May Concern:	
This is to state that the Verizon Wireless communication tower proposed at 32168 Millfield Road will be a maximum of 199 feet in height and will be compatible for up to five (5) users.	
If you should have any questions or require additional information, please feel free to contact me at 804-673-3882.	
Sincerely,	
KIMLEY-HORN AND ASSOCIATES, INC.	
	
Brian J. Brewer, P.E. Project Manager	

### **Structural Engineer's Certification of Carriers**

## **1.7 Radio Frequency Exposure & Interference**

FCC bulletin OET-65 provides guidance for a licensee proposing to construct a telecommunications support structure in calculation of RF exposure limitations, including analysis of the cumulative effect of all transmitters on the structure. Appropriate steps, including warning signage at the site, must be taken to protect both the general public and site workers from unsafe RF exposure in accordance with federal guidelines. Documentation of an RF exposure study is included with this application.

A report titled “RF Safety FCC Compliance of Proposed Communications Facility, Site Name: Berlin, Proposed 199’ Lattice Tower, 32198 Millfield Road, Ivor, Virginia 23866 (Southampton County)”, dated June 18, 2013, and prepared by Millennium Engineering, P.C. for Verizon Wireless was submitted with a report status that “Verizon Wireless is under 1% threshold.”

It is signed and sealed by Mr. Paul Dugan, P.E. a Professional Engineer licensed in the Commonwealth of Virginia. It states the following:

“This consultant sees no evidence of unsafe RF exposure levels being generated at this site if it were to proceed as proposed. RF site exposure warning signage placement shall be appropriately planned for this site.”

An interference study, taking into account all proximally located transmitters and receivers known to be active in the area, is advisable prior to any co-location.

A full interference study has been included with the Applicant’s design.

The consultant concurs with the study and sees no evidence of interference by or with this site after a general evaluation of the surrounding transmitter sites.

Should any interference issues be posed with respect to this site, mitigation would nevertheless remain the responsibility of the tower owner and affected carrier(s), and would be regulated by the Federal Communication Commission, having no effect or burden on the County.



## 2.0 PROCEDUREAL

### 2.1 FAA Study:

An FAA TOWAIR study has been conducted for a tower at a height of 199' AGL at the proposed location.

Based on its findings the FAA determined that the structure is not a hazard to air navigation.

### TOWAIR Determination Results

**\*\*\* NOTICE \*\*\***

TOWAIR's findings are not definitive or binding, and we cannot guarantee that the data in TOWAIR are fully current and accurate. In some instances, TOWAIR may yield results that differ from application of the criteria set out in 47 C.F.R. Section 17.7 and 14 C.F.R. Section 77.13. A positive finding by TOWAIR recommending notification should be given considerable weight. On the other hand, a finding by TOWAIR recommending either for or against notification is not conclusive. It is the responsibility of each ASR participant to exercise due diligence to determine if it must coordinate its structure with the FAA. TOWAIR is only one tool designed to assist ASR participants in exercising this due diligence, and further investigation may be necessary to determine if FAA coordination is appropriate.

**DETERMINATION Results**

**Structure does not require registration. There are no airports within 8 kilometers (5 miles) of the coordinates you provided.**

**Your Specifications**

**NAD83 Coordinates**

Latitude	36-51-42.1 north
Longitude	076-57-35.0 west

**Measurements (Meters)**

Overall Structure Height (AGL)	59.4
Support Structure Height (AGL)	59.4
Site Elevation (AMSL)	61

**Structure Type**

LTOWER - Lattice Tower

**Tower Construction Notifications**

Notify Tribes and Historic Preservation Officers of your plans to build a tower.

## **2.2 FCC Antenna Site Registration**

This site is not required to have an antenna site registration number.

## **2.3 Environmental Impacts**

The National Environmental Policy Act of 1969 (NEPA), delineated in Title 47 of the Code of Federal Regulations, Part 1, Subpart I, sections 1.1301-1.1319, requires federal agencies to incorporate environmental considerations into their decision-making process when evaluating new construction proposals. As a licensing agency, the Federal Communication Commission (FCC) requires all licensees to consider the potential environmental effects from their construction of antenna support structures, and to disclose those effects in an Environmental Assessment (EA) that must be filed with the FCC for review.

A NEPA Screening Report was not submitted with the application.

This report should be completed prior to issuance of a building Permit. The consultant believes upon a field inspection that there will be no disturbance of endangered species or environmental concerns. The Application should move forward.

The proposed site location is raw farmland and is remote in nature.

## **2.4 Historic Impacts**

Section 106 of the National Historic Preservation Act of 1966 (NHPA) requires that State Historic Preservation Offices (SHPO) and the President's Advisory Council on Historic Preservation be given a reasonable opportunity to comment on all undertakings with the potential to affect historic properties. Prior to construction, the licensee is required to submit to the SHPO a detailed description of the project, a listing of local historic resources, and a discussion of any measures being undertaken to mitigate impacts (if any) on historic resources. Upon receipt, the SHPO has thirty (30) days to review and respond to those submissions. All agencies with authority to permit construction are required to consider the SHPO response in its decision making process with respect to new construction applications.

A response from SHPO was not included with the application.

The Department of Historic Resources will review and comment on this application. The Applicant should supply the County with this Section 106 Report and any comments concerning historic impacts and remediation prior to issuance of a Building Permit.

## **2.5 Supporting Documentation**

The Applicant has included support-documentation supporting the construction of the proposed site in the form of propagation mapping. The analysis of the system coverage expected from this site, in the opinion of this consultant, represents an accurate RF engineering assessment.

An independent RF analysis has been performed by this consultant, with a coverage map appended to this report, verifying that the applicant will be able to meet their stated coverage objectives by construction as proposed.

Additionally and as indicated, no proximal sites affording co-location potential and meeting the stated coverage goals are available. Included in this report are the consultant's maps that match the applicant's.

In summary, this tower will provide the radio coverage to fill a hole in coverage.

### **3.0 RECOMMENDATIONS**

This application represents an appreciable intent on the part of the Applicant to conform to the letter, spirit, and intent of all applicable federal, state, and local regulations, accepted industry practices, and specific County ordinances regarding construction of new telecommunications towers. The design presented represents sound engineering. It is therefore the recommendation of this consultant that the request for issuance of a special use permit to allow construction of this site as proposed be issued.

Recommendations:

1. Grant this application as submitted by the Applicant.
2. Applicant could possibly provide, free of charge, one antenna slot on this tower for Public Safety.
3. The NEPA Report should be completed prior to issuance of a building Permit. The consultant believes upon a field inspection that there will be no disturbance of endangered species or environmental concerns. The Application should move forward.
4. The Applicant should supply the County with this Section 106 Report and any comments concerning historic impacts and remediation prior to issuance of a Building Permit.

In closing, this consultant remains available to address any comments or questions that may arise during review of this report. Any interested party with such comments or questions may feel free to contact this firm, which remains committed to delivering independent, objective, unbiased, and thorough consulting services.

Respectfully submitted,



George N. Condyles, IV, CPM  
President & COO



**32168 Millfield Road**



**Location of Proposed Tower**



**Existing Tree Line of 70'+ Trees to the south**

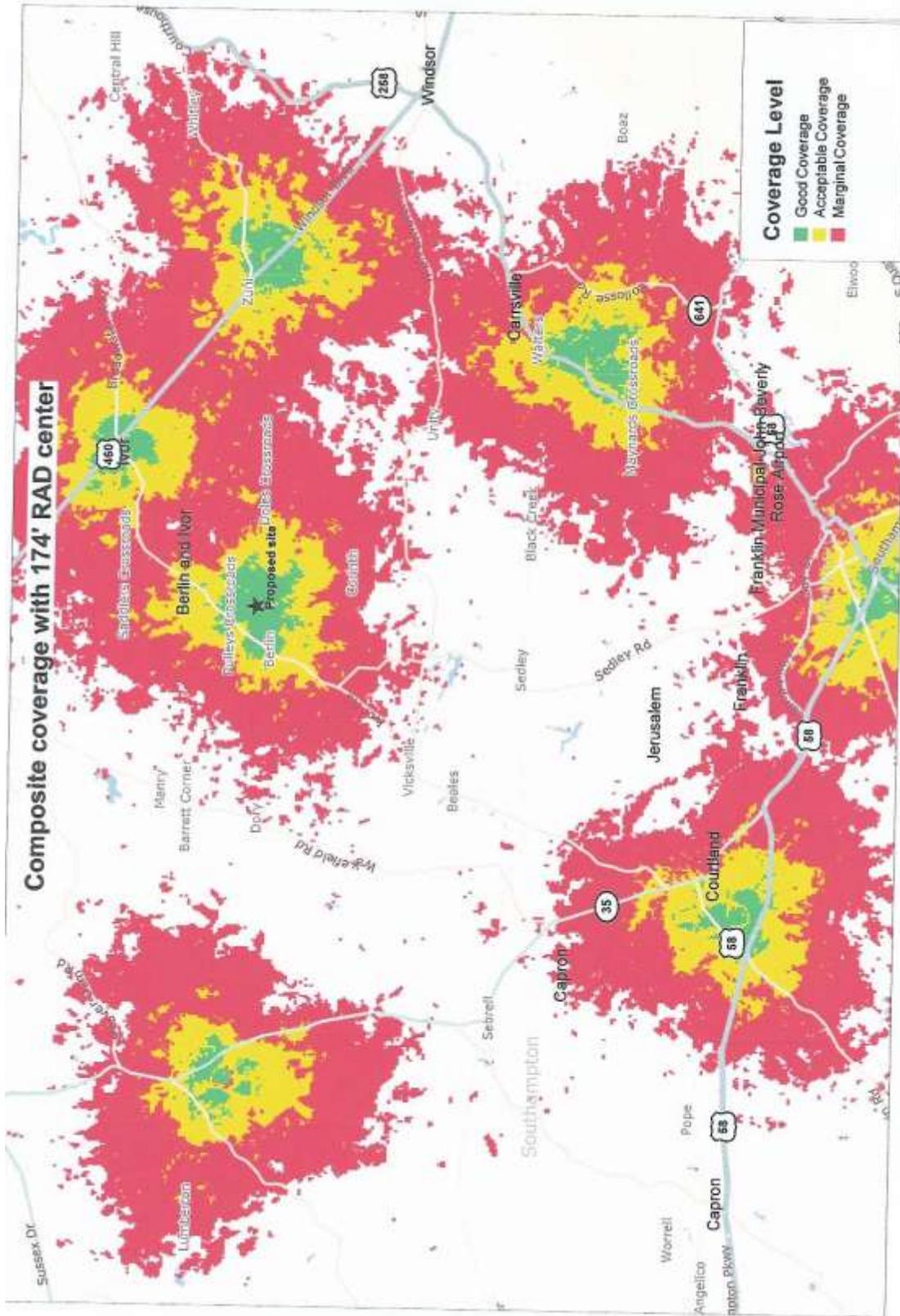


**Millfield Road has fiber optic cable**



















Kimley-Horn  
and Associates, Inc.

June 26, 2013

■  
Suite 200  
1700 Willow Lawn Drive  
Richmond, Virginia  
23230

Department of Planning  
Southampton County  
26022 Administration Center Drive  
PO Box 400  
Courtland, Virginia 23837

Re: ***Proposed Verizon Wireless Communication Tower  
32168 Millfield Road***

To Whom It May Concern:

This is to state that the Verizon Wireless communication tower proposed at 32168 Millfield Road will be a maximum of 199 feet in height and will be compatible for up to five (5) users.

If you should have any questions or require additional information, please feel free to contact me at 804-673-3882.

Sincerely,

KIMLEY-HORN AND ASSOCIATES, INC.

A handwritten signature in blue ink that reads "Brian J. Brewer".

Brian J. Brewer, P.E.  
Project Manager

## TOWAIR Determination Results

### \*\*\* NOTICE \*\*\*

TOWAIR's findings are not definitive or binding, and we cannot guarantee that the data in TOWAIR are fully current and accurate. In some instances, TOWAIR may yield results that differ from application of the criteria set out in 47 C.F.R. Section 17.7 and 14 C.F.R. Section 77.13. A positive finding by TOWAIR recommending notification should be given considerable weight. On the other hand, a finding by TOWAIR recommending either for or against notification is not conclusive. It is the responsibility of each ASR participant to exercise due diligence to determine if it must coordinate its structure with the FAA. TOWAIR is only one tool designed to assist ASR participants in exercising this due diligence, and further investigation may be necessary to determine if FAA coordination is appropriate.

#### DETERMINATION Results

**Structure does not require registration. There are no airports within 8 kilometers (5 miles) of the coordinates you provided.**

#### Your Specifications

##### NAD83 Coordinates

Latitude	36-51-42.1 north
Longitude	076-57-35.0 west

##### Measurements (Meters)

Overall Structure Height (AGL)	60.7
Support Structure Height (AGL)	0
Site Elevation (AMSL)	20.7

##### Structure Type

LTOWER - Lattice Tower

#### [Tower Construction Notifications](#)

Notify Tribes and Historic Preservation Officers of your plans to build a tower.

CLOSE WINDOW



Verizon Wireless  
Washington/Baltimore/Virginia  
Network Engineering  
1831 Rady Court  
Richmond, VA 23222  
804-347-2572

## ***Verizon Wireless Collocation Guidelines*** **Washington/Baltimore/Virginia**

The Verizon Wireless (VZW) Collocation Guidelines are intended to outline/govern the site design, development, approval, and documentation process for collocation on an existing VZW communications facility.

### **Application and General Lease Process**

#### **Application Submittal**

Collocator must submit a complete electronic version of VZW Collocation Application to (Processing RE manager) along with the following by separate cover:

- \*Application fee (if applicable)
- \*Site sketch depicting the existing compound layout and Collocator's desired equipment/shelter location
- \*Digital photographs of site verifying information contained on sketch showing the structure and ALL existing antennas
- \*Manufacturer's antenna specification sheet detailing Collocator's proposed antennas

#### **Preliminary Application Approval**

1. After review and a preliminary approval by VZW of collocator's site application, VZW will:
  - A. Notify Collocator of any extraordinary issues at the requested site to include: tower loading/spacing limitations, ground space limitations, requirements for separate agreement with VZW's prime lessor, special requirements regarding zoning at the site, and any applicable extraordinary site fees or costs.
  - B. Schedule a preliminary site meeting w/ Collocator to confirm the feasibility of the proposed antenna location on the structure and of Collocator's equipment at the site.

## **Lease Exhibit Drawing Approval**

2. Collocator will submit a lease exhibit along with preliminary drawings for VZW review and approval. All drawings (see drawing requirements) must be reviewed and approved by the appropriate VZW construction manager prior to permitting and pre-construction activities.
3. VZW will provide executable SLAs to the collocator along with due diligence documentation which VZW has available.

**NOTE: All notifications to local/state or federal regulatory agencies or required modifications to VZW existing SHPO/FAA/FCC or any other regulatory approval related to the communications site must be submitted to the regulatory agency through VZW only. Collocators on VZW towers are not authorized to send requests directly to any regulatory agencies without specific VZW approval.**

4. Following full execution of a lease for the site and VZW review and approval of Collocator's construction drawings and structural analysis, Collocator will coordinate with VZW for a preliminary pre-construction meeting at the site.

## **Construction Process and Standards**

### Construction Process:

#### **Preliminary Approval:**

1. A preliminary site meeting will be performed with VZW and Collocator to identify location of Collocator's equipment on the tower and in the compound.
2. Collocator will supply VZW with architectural & engineering plans for review and approval to include: Lease Exhibits and two sets of stamped 11"x17" plans to VZW. One signed set of drawings with comments and changes will be returned to Collocator.

#### **Pre-Construction Meeting:**

1. Upon execution of a lease document, a pre-construction site walk will be performed with VZW and collocator.
2. The Collocator shall supply VZW with the names of contractors and subcontractors hired to do Collocators work. All contractors/subcontractors are subject to VZW review and approval. VZW reserves the right to reject any contractors it deems unqualified for any reason.
3. Collocator will supply VZW a copy of the stamped approval drawings and approved Building Permit card.
4. The Collocator will supply VZW a detailed "Construction Schedule" outlining the activity and duration of each activity. Schedule must also include a reasonable start date and date of completion.
5. The VZW Manager of Project Implementation will issue a Notice to Proceed (NTP) upon receipt and satisfactory review of all the above information and a satisfactory certificate of insurance (see below for specific requirements).

#### **Collocator/Contractor Insurance Requirements:**

1. Before commencement of any work at a VZW site, the Collocator must supply VZW with an acceptable certificate of insurance naming VZW as an additional insured with the following coverage levels:

**Commercial General Liability Insurance** (including, but not limited to, premises-operations, explosion and collapse, underground hazard, broad form property damage, products/completed operations, contractual liability, independent contractors, personal injury) with limits of at least \$2,000,000 combined single limit for each occurrence. (Limits may be satisfied with primary and/or excess coverage.)

**Commercial Automobile Liability** with limits of at least \$2,000,000 combined single limit for each occurrence.

**Workers' Compensation** insurance as required by Statute, and Employer's Liability insurance with limits of not less than \$1,000,000 per occurrence.

**Professional Liability (Errors and Omissions)** with limits of not less than \$1,000,000 per occurrence

**Construction:**

1. VZW will issue the NTP for construction upon commencement of Lease, receipt of the certification of insurance in Collocator's/contractor's name listing VZW as an additional insured, receipt of all necessary government approvals and all appropriate VZW approvals.
2. Collocator must notify VZW a minimum of 24 hours prior to start of construction.
3. During construction, Collocator will immediately notify VZW of any proposed deviation from the approved construction drawings. If there is deviation, Collocator will not proceed with the change until it has been reviewed and approved by the appropriate VZW personnel.

**Post-Construction:**

1. A post construction inspection will be performed by a VZW manager at the time the Collocator informs VZW that construction is complete at the site. A "Punch List" will be developed and the Collocator will be required to correct discrepancies immediately.
2. Collocator will provide an "As Built" (no red-lines) drawing of the site to VZW upon completion of work.
3. Collocator will provide copies of all final inspections, reports, and other construction documents related to the site.

**General Construction Standards:**

**General Statement:**

Verizon Wireless (VZW) has certain "Construction Standards" that it maintains in the construction of wireless communications sites. VZW requires that these minimum standards be maintained at the site to include construction and equipment installed for all collocations at the site.

**Materials:**

1. All materials to be used at the site shall be "New and of Commercial Quality".
2. Procedures used at the site shall conform to "Industry Standards" for each type of work being performed.
3. All materials used for antenna mounts and antenna cable routing will be "Hot Dipped Galvanized" materials.

**Concrete:**

1. Concrete shall develop a minimum compressive strength of 3000 PSI at the 28-day break.

**Chain Link Fence:**

1. If fence work is required the collocator is required to match the existing fence material and construction.

**Back Filling:**

1. Backfill of foundation, trenches, and other excavated areas shall be engineered materials and compacted to 95% relative density in lifts not exceeding 8" at a moisture content of 2% above optimum.
2. Gravel shall match existing gravel. If no gravel is present on site the material shall conform to Class 2 Aggregate Base.

3. Filter Fabric is to be placed prior to placement of any finished stone for roads, walkways, or site compound area.

### **Contractor Testing:**

The collocator shall supply VZW with the following test reports:

1. Soils tests for foundation bearing capacity.
2. Concrete Cylinder and Placement Reports
3. Rebar Certification
4. Welding and Pole/Tower Modifications Shop Drawings and Field Inspections/Reports.
5. Bolted & Mechanical Connections
6. Ground test results

### **Utility Extensions:**

1. Trenching route and conduit details for power application.
2. Trenching route and conduit details for telco connection.

### **Safety:**

1. Collocator and their contractors shall meet all applicable OSHA regulations

### **Antenna/Antenna Cable:**

1. The antennas and antenna mounting hardware shall be installed per manufacturer recommended standards of practice.
2. The coax cable shall be installed per manufacturer recommended standards of practice.
3. Collocator must provide easy identification and uniform markings of antenna cable per the following instructions: Markings shall be made of Metal Tags affixed at three places on the coax cable run as follows:
  - On the coax nearest to the antenna.
  - At the base of the tower
  - Outside the collocators equipment location
4. Tags shall clearly state the wireless carriers name.

### **Grounding:**

1. Whichever "Grounding Scheme" the Collocator employs the work will be done in a neat and professional manner. At no time will the "Collocators Grounding Scheme" jeopardize the integrity of the VZW Grounding system.
2. The Collocator shall install a ring ground around it's own equipment and tie into the existing ground ring at two locations. If such standard conflicts with the Collocator's grounding standards, alternatives should be proposed for VZW review and approval.

### *Architectural & Engineering Drawing Requirements:*

#### **Title Page:**

1. Applicants name & address.
2. VZW Site Name and Code
3. Revision Block showing latest revisions
4. Vicinity Map, Site Address
5. Project information
6. Zoning Information
7. Approval Block

#### **Site Plan:**

1. Title block with Architect/engineering information
2. Applicants name & address.
3. VZW Site Name and Code
4. Revision Block showing latest revisions
8. Approval Block
5. Scaled site plan showing leased area, property boundary, site equipment (existing and new) and North Arrow.

### Equipment Plan:

1. Enlarged site plan of equipment area (10 Scale)
2. Equipment details including existing equipment, dimensioned of new equipment to be installed, electrical & Telco routing, wave guide routes, and any other information concerning the compound area.
3. Equipment Pad Details

### Equipment Elevation Plan:

1. Equipment elevations, Wave guide Bridge elevations (min. 7'-6" AFG)

### Tower/Antenna Plans & Elevations:

1. Number and specifications of antenna to be installed.
2. Elevation view of antenna location on tower
3. Antenna mount details and specifications (identify antenna mount manufacture)
4. Number and size of coax cable to be installed.
5. Elevation view of coax route on tower (lattice tower= wave guide ladder, Monopole=inside/outside of tower body).
6. Tower elevation drawing showing existing and proposed antenna locations & coax cable routes

### Electrical Plans:

1. Electrical Service routing from "Point of Connection to Point of Termination".
2. Electrical service "Riser Sketch".
3. Telco Routing from "Point of Connection to Point of Termination".
4. Grounding drawings.

### Structural Standards:

1. A structural analysis will be required for all co-location on a VZW tower. A letter from the engineer of record will be required stating the adequacy of the tower steel and foundation to support the existing and proposed loads using the specific County and EIA/TIA loading requirements for that specific region. The Basic Wind Speeds and Ice Loading will be stated in the report.
2. Structural analysis is to be completed by the original tower/monopole manufacture.
3. The analysis will include all present and future antenna loading including microwave dishes, antenna platforms, antenna mounts, antenna coax cables and wave-guide ladders, and any ancillary equipment.
4. If modifications are required to the tower specific "Modification Sketches" showing the changes to the tower structure will be required along with a write of changes.

This is to notify you that the Lead SHPO/THPO has concurred with the following filing:

Date of Action: 10/22/2013

Direct Effect: No Historic Properties in Area of Potential Effects (APE)

Visual Effect: No Historic Properties in Area of Potential Effects (APE)

Comment Text: None

File Number: 0005959897

Purpose: New Tower Submission Packet

Notification Date: 7AM EST 09/27/2013

Applicant: Verizon Wireless

Consultant: Cultural Resources, Inc., on behalf of Trileaf Corporation

Site Name: Berlin

Site Address: 32168 Millfield Road

Site Coordinates: 36-51-42.1 N, 76-57-35.1 W

City: Ivor

County: SOUTHAMPTON

State: VA

Lead SHPO/THPO: Virginia Department of Historic Resources

#### NOTICE OF FRAUDULENT USE OF SYSTEM, ABUSE OF PASSWORD AND RELATED MISUSE

Use of the Section 106 system is intended to facilitate consultation under Section 106 of the National Historic Preservation Act and may contain information that is confidential, privileged or otherwise protected from disclosure under applicable laws. Any person having access to Section 106 information shall use it only for its intended purpose. Appropriate action will be taken with respect to any misuse of the system.

Email received 10/22/2013

BL

**Date:** 7/1/13

**To:** Drew Patterson, Zoning Manager for Verizon Wireless

**From:** Okey Anisiobi, RF Engineer for Verizon Wireless

**Subject:** Coverage objective of proposed Verizon Wireless site at 32168 Millfield Road, Ivor, VA 23688.

The proposed site is intended to extend coverage to the Berlin community including route 616 (Ivor Rd), route 605 (Millfield Rd), route 626 (Appleton Rd) and route (614 Seacock Chapel Rd). The nearest Verizon Wireless hand-off site from the proposed site location is about five miles away and the proposed site will fill some coverage gaps as shown in the attached coverage maps.

Regards,

Okey Anisiobi

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*We know our best was good for today. Tomorrow we'll do better.*

CUP 2013:01  
Pulley, Paige, Verizon Wireless new tower

Owner  
Paige Pulley  
33141 Millfield Road  
Ivor, VA 23866  
TP 23-14, 23-14B, 22-12

Applicant  
Drew Patterson  
Network Building & Consulting, LLC  
7380 Coca Cola Drive, Suite 106  
Hanover, MD 21076

Abutting property owners  
Colton Pulley  
32168 Millfield Road  
Ivor, VA 23866  
TP 23-14C

Marsha and H. Paige Pulley Jr.  
33141 Millfield Road  
Ivor, VA 23866  
TP 23-2C

Lightwood Land Company LLC  
36057 Faison Road  
Wakefield, VA 23888  
TP 23-1