APPLICATION FOR ZONING APPROVAL BY CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS FOR THE CONSTRUCTION OF A WIRELESS COMMUNICATIONS TOWER AND RELATED APPURTENANCES

(MOUNT HOPE SITE)

(SITE ADDRESS: 280 RIMER ROAD, SALISBURY, NORTH CAROLINA 28146)

Submitted by:

Baker, Donelson, Bearman, Caldwell & Berkowitz, PC
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December 15, 2021

VIA FEDERAL EXPRESS AND EMAIL

Rowan County Planning & Development ATTN: Ed Muire, Planning & Development Director 402 N. Main Street, Room 204 Salisbury, NC 28144

Re: APPLICATION FOR ZONING APPROVAL BY CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS FOR THE CONSTRUCTION OF A WIRELESS COMMUNICATIONS TOWER AND RELATED APPURTENANCES

(MOUNT HOPE SITE / 3000001. 103001)

(SITE ADDRESS: 280 RIMER ROAD, SALISBURY, NORTH CAROLINA 28146)

Dear Mr. Muire:

I hope this letter finds you well. Please find enclosed Verizon Wireless' Conditional Use Permit application (the "Application") for the proposed wireless communications facility in Rowan County, North Carolina at the above-referenced location. Also enclosed are an additional copy of the zoning application and two additional copies of the site plans. An electronic version of the Application, site plan, and supporting documents will be sent to you as well. Please advise at your first convenience whether any additional information is needed for the Application to be deemed complete. We will assume it is sufficiently complete unless we hear from you otherwise.

Please also find enclosed a check for \$5,000.00 representing the New Telecommunications Tower application fee and a check for \$200.00 representing the Conditional Use Permit application fee made payable to Rowan County.

Thank you for your time and attention to this matter. If you have any questions or comments, or need any additional information, please do not hesitate to contact me. I look forward to hearing from you soon.

Best regards,

W. W. byto W

APPLICATION FOR ZONING APPROVAL BY CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS FOR THE CONSTRUCTION OF A WIRELESS COMMUNICATIONS TOWER AND RELATED APPURTENANCES

MOUNT HOPE SITE

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STATEMENT OF COMPLIANCE WITH THE ROWAN COUNTY ZONING ORDINANCE

Verizon Wireless is required to obtain a Conditional Use Permit from the Rowan County Board of Commissioners for a new 165' monopole wireless communications tower with a four foot lightning rod and associated equipment structures pursuant to Sections 21-60(3), 21-52, 21-58(a-e), and 21-59 of the Rowan County Zoning Ordinance. The proposed tower is located on property owned by Debbie L. Craddock and Patricia L. Moore. The proposed tower will be located at 280 Rimer Road on a property that is zoned RA. Verizon Wireless fully complies with the Conditional Use Permit standards set forth in the Ordinance and respectfully requests that the proposed tower be approved.

- I. <u>Section 21-60(3) Transportation, communications, electric, gas and sanitary services group: Communications and Wireless support structures.</u> Verizon Wireless fully complies with the applicable standards set forth in the Ordinance as follows:
 - a. New wireless support structures. For all new wireless support structures, the county encourages the applicant to investigate preferred sites and those locations that minimize the impact to the North Carolina Scenic Byway corridor. In the event the new wireless support structure cannot be located at a preferred site, evidence that the applicant has investigated the possibilities for co-location on an existing wireless support structure shall be presented with its application. At a minimum the evidence should contain:
 - 1. Copies and responses of certified letters sent to owners/operators of all existing towers and structures with telecommunications facilities within the search ring of the proposed site, requesting the following information:
 - i. Height above ground and sea level.
 - ii. Existing tenants, including any telecommunication service providers and planned tower use.
 - iii. Whether the existing site could accommodate the addition of their wireless facilities.
 - iv. If the addition of their wireless facilities cannot be accommodated, an assessment of whether the existing site could be upgraded and a general description of the means and projected costs of shared use of the tower.
 - Acknowledged and agreed. There are no preferred sites, existing
 towers or alternative buildings or structures upon which to collocate
 within the search area in which Verizon Wireless' equipment must
 be located to function as intended. Therefore, co-location is not
 possible and construction of the new Mount Hope tower is
 necessary. Please refer to the Inability to Collocate Statement and

Facility Siting Certification signed by John Yeagley, Site Acquisitions Manager for Chase Real Estate Services, attached hereto as Exhibit 8. Please also refer to the Search Area Map, attached hereto as Exhibit 5. Lastly, please refer to the Network Objective Statement signed by Ashutosh Pandey, Radio Frequency Engineer for Verizon Wireless, attached hereto as Exhibit 4.

- 2. Inventory of all preferred sites, and alternative tower structures considered within the search ring, including specific analysis of each preferred site and alternative tower structure outlining positive and negative aspects for utilizing.
 - Acknowledged and agreed. There are no preferred sites or alternative tower structures within Verizon Wireless' search area. Therefore, co-location is not possible and construction of the new Mount Hope tower is necessary. Please refer to the Inability to Collocate Statement and Facility Siting Certification signed by John Yeagley, Site Acquisitions Manager for Chase Real Estate Services, attached hereto as Exhibit 8. Please also refer to the Search Area Map, attached hereto as Exhibit 5. Lastly, please refer to the Network Objective Statement signed by Ashutosh Pandey, Radio Frequency Engineer for Verizon Wireless, attached hereto as Exhibit 4.
- 3. A completed application for a new wireless support structure shall include:
 - i. Two copies of a site plan registered professional engineer or a professional land surveyor as provided in section 21-52.
 - Acknowledged and agreed. Please refer to the Site Survey and Drawings prepared by Kimley-Horn and Associates, Inc., attached hereto as Exhibit 6.
 - ii. Topography information for the equipment compound and fall zone including base elevation of wireless support structure or alternative tower structure.
 - Acknowledged and agreed. Please refer to Sheet 3 of the Site Survey and Pages C8 through C8.5 of the Site Survey and Drawings prepared by Kimley-Horn and Associates, Inc., attached hereto as Exhibit 6.
 - iii. Tower height and height of antenna location (if different).
 - Acknowledged and agreed. The proposed tower height is 165 feet and the proposed height of the antennas is 160 feet. Please refer to Page C13 of the Site Survey and Drawings prepared by Kimley-Horn and Associates, Inc., attached hereto as Exhibit 6.

- iv. Setbacks including ingress and egress easements, fall zone, fencing and screening requirements found in section 21-215(1)b.1.-3.
 - Please refer to Pages C0, C1, C2, and C7 of the Site Survey and Drawings prepared by Kimley-Horn and Associates, Inc., attached hereto as Exhibit 6, demonstrating the setbacks, fall zone, and fencing for the facility. Section 21-219 of the Ordinance states that the landscaping requirements of Section 21-215 shall not apply if an existing adjacent principal or accessory structures and the proposed structure are separated by a distance of 200 feet or more. Because the proposed tower will be separated from existing structures by a distance greater than 200 feet, landscaping is not required. Additionally, the facility will be surrounded by existing dense vegetation that will be retained to the maximum extent possible that will provide a screen meeting the requirements in Section 21-215(1)b.1-3. Please also refer to the Site Images, attached hereto as Exhibit 7.
- v. Adjacent land uses and the separation distance from antenna facility to the nearest occupied residential dwelling.
 - Acknowledged and agreed. Please refer to Page C1 of the Site Survey and Drawings prepared by Kimley-Horn and Associates, Inc., attached hereto as Exhibit 6.
- 4. Using the latitude and longitude of the proposed wireless support structure location as a fixed point, obtain actual photographs of the site that present a 0 degree (north); 90 degree (east); 180 degree (south); 270 degree (west) perspective toward the fixed point from the nearest North Carolina DOT maintained roads in relation to the site.
 - Acknowledged and agreed. Please refer to the Balloon Test Report prepared by Michael Gould, Owner and Operator of Gould Digital Imaging, attached hereto as Exhibit 14.
- 5. Utilizing each of the photographs from item 4 above, create a simulated photographic image of the proposed wireless support structure or antenna addition to an alternative tower structure from each of the perspectives referenced above depicting the tower at a scale relative to its surroundings with specific regard to height and width.
 - Acknowledged and agreed. Please refer to the Photo Simulations, prepared by Michael Gould, Owner and Operator of Gould Digital Imaging, attached hereto as Exhibit 15.
- 6. Engineering report certifying the tower is compatible for co-location with a

minimum of five (5) compatible users including the primary user and copy of colocation policy.

- As shown on Page C13 of the Site Survey and Drawings prepared by Kimley-Horn and Associates, Inc., attached hereto as Exhibit 6, the proposed tower will be designed to accommodate five users. Please also refer to the Future Collocation Certification, signed by Michael Haven, Real Estate Manager for Verizon Wireless, attached hereto as Exhibit 9. An engineering report certifying the tower is compatible for co-location cannot be provided until the tower is ordered from the manufacturer, which is typically done after zoning approval. Verizon Wireless respectfully requests that this documentation be made a condition of zoning approval to be submitted before the issuance of a building permit.
- b. *Tower heights and types*. To maintain the character of the rural areas of the county and allow for placement in the commercial and industrial areas of the county, new wireless support structures will be regulated in the following manner:
 - 1. Rural Agricultural (RA), Rural Residential and Neighborhood Business (NB) districts. Monopole not to exceed one hundred ninety-nine (199) feet based on five (5) co-located antenna arrays.
 - Acknowledged and agreed. The subject property is zoned RA. As shown on Page C13 of the Site Survey and Drawings prepared by Kimley-Horn and Associates, Inc., attached hereto as Exhibit 6, the proposed tower will be a 165-foot monopole tower and will be designed to accommodate five (5) users. Please also refer to the Future Collocation Certification, signed by Michael Haven, Real Estate Manager for Verizon Wireless, attached hereto as Exhibit 9.
 - 2. Commercial, business, industrial (CBI), Industrial (IND), 85-ED-1, 85-ED-2, 85-ED-3, and 85-ED-4. Monopole or lattice tower not to exceed two hundred fifty (250) feet based on six (6) co-located antenna arrays.
 - Because the proposed tower is zoned RA, this subsection does not apply.
 - 3. Requirements 1. and 2. of this subsection may be modified by the board of commissioners based upon:
 - i. Evidence presented by the applicant that demonstrates a height increase is in the interest of public safety or is necessary to provide the applicant's designed service.
 - ii. An alternative design would better blend into the surrounding environment regardless of zoning district.

- Because the proposed tower meets the requirements of subsection 1 regulating towers in the RA district, these subsections do not apply.
- c. Provisions for tower safety. New towers must either be so designed as to land upon its own property or lease area in the event of a fall as certified by a North Carolina registered professional engineer or have a minimum lot size or lease area no less than ten thousand (10,000) square feet and have an accompanying fall zone easement equal to the tower height plus ten (10) feet. New composite tower shall, at a minimum, fully loaded, comply with TIA/EIA-222F.
 - Verizon Wireless' proposed lease area is 10,000 square feet. The tower will have a
 50-foot engineered fall zone radius such that, in the unlikely event of tower failure,
 the tower will fall within Verizon Wireless' lease area. Please refer to Page C1 of
 the Site Survey and Drawings prepared by Kimley-Horn and Associates, Inc.,
 attached hereto as Exhibit 6 and Exhibit 17 Engineering Fall Zone Certification.
- d. Retention of consultant. The county may elect to retain a consultant or professional services to review the application and make determinations and recommendations on relevant issues including, but not limited to, verification of the applicant's due diligence, analysis of alternatives and compliance with state and federal rules and regulations. The applicant shall pay any expense for consulting or professional services in excess of the application fee. The county shall require any consultants to disclose any potential conflicts of interest and to hold confidential any proprietary information supplied by the applicant. At the request of the applicant, the zoning administrator shall arrange an informal consultation with the applicant to review the consultant's report prior to any public hearing on the application. All determination costs not excluded by NCGS 153A- 349.52(f) are reimbursable by applicant.
 - Acknowledged and agreed.
- e. Obstruction lighting and marking. Wireless support structures located within the county's airport zone overlay may exhibit obstruction lighting and marking in accordance with the Federal Aviation Administration standards. All other towers shall be of galvanized finish, or painted with a rust protective paint of an appropriate color to harmonize with the surroundings as approved by the board of commissioners. Requirements of this subsection may be modified by the board of commissioners based upon an increase in tower height or location in another jurisdiction's regulated air space or in the interest of public safety.
 - Acknowledged and agreed. The proposed tower will not be located within the county's airport zone overlay. As shown on Page C13 of the Site Survey and Drawings prepared by Kimley-Horn and Associates, Inc., attached hereto as Exhibit 6, the proposed tower will be constructed of galvanized steel, gray in color, in order to blend with the changing color of the sky. As demonstrated by the Airspace Study, prepared by Federal Airways & Airspace, attached hereto as Exhibit 10,

notice to the FAA is not required and the tower will not be lighted.

- f. FCC license required. The applicant for a new wireless telecommunication facility must be currently licensed by the FCC to provide fixed or mobile wireless communication services, or if the applicant is not such an FCC licensee, must demonstrate that it has binding commitments from one (1) or more FCC licensees to utilize the wireless telecommunication site once constructed.
 - Acknowledged and agreed. Please refer to the FCC Licenses for Rowan County, NC, attached hereto as Exhibit 11.
- II. <u>Section 21-52 Site Plan Required.</u> Verizon Wireless fully complies with the applicable standards set forth in the Ordinance as follows:

Site plans are necessary to demonstrate the proposed use of land and / or structures will comply with the specifications set forth in this chapter prior to the issuance of a zoning permit. All non-residential uses shall submit a site plan containing the following information in addition to other standards required by this chapter:

- (1) Zone lot with dimensions and development setbacks;
 - Acknowledged and agreed. Please refer to Sheets 1 through 3 of the Site Survey and Page C1 of the Site Survey and Drawings prepared by Kimley-Horn and Associates, Inc., attached hereto as Exhibit 6.
- (2) Tax parcel number;
 - Acknowledged and agreed. The tax parcel number of the subject property is 422 179. Please refer to Page T1 of the Site Survey and Drawings prepared by Kimley-Horn and Associates, Inc., attached hereto as Exhibit
- (3) Property address;
 - Acknowledged and agreed. The property address is 280 Rimer Road, Salisbury, North Carolina 28146. Please refer to Page T1 of the Site Survey and Drawings prepared by Kimley-Horn and Associates, Inc., attached hereto as Exhibit 6.
- (4) Adjoining deeded properties and their uses;
 - Acknowledged and agreed. Please refer to Page C1 of the Site Survey and Drawings prepared by Kimley-Horn and Associates, Inc., attached hereto as Exhibit 6.
- (5) Existing structures;

 Acknowledged and agreed. Please refer to Page C1 of the Site Survey and Drawings prepared by Kimley-Horn and Associates, Inc., attached hereto as Exhibit 6.

(6) Proposed structure with size;

 Acknowledged and agreed. The proposed structure is a 165-foot monopole wireless communication tower with a four-foot lightning rod. Please refer to Page C13 of the Site Survey and Drawings prepared by Kimley-Horn and Associates, Inc., attached hereto as Exhibit 6.

(7) Proposed use;

• Acknowledged and agreed. The proposed use is a wireless communication tower. Please refer to Pages T1 and C13 of the Site Survey and Drawings prepared by Kimley-Horn and Associates, Inc., attached hereto as Exhibit 6.

(8) Number of employees, if applicable;

• The proposed facility will be unmanned with only periodic maintenance on average one time per month by one employee. Please refer to Page T1 of the Site Survey and Drawings prepared by Kimley-Horn and Associates, Inc., attached hereto as Exhibit 6.

(9) Hours of operation, if applicable;

• The proposed facility will be unmanned with only periodic maintenance on average one time per month by one employee. The facility will operate 24 hours a day, seven days a week. Please refer to Page T1 of the Site Survey and Drawings prepared by Kimley-Horn and Associates, Inc., attached hereto as Exhibit 6.

(10) Off-street parking, loading and unloading, access to existing streets;

• Acknowledged and agreed. The proposed facility will have an access road and a 30' x 60' parking area and vehicle turnaround area at the entrance to the facility. Access to the site will be from the Rimer Road public right-of-way via a 12-foot wide road to be installed by Verizon Wireless to the entrance of the facility. Please refer to Pages C1 and C2 of the Site Survey and Drawings prepared by Kimley-Horn and Associates, Inc., attached hereto as Exhibit 6.

(11) Easements and rights-of-way;

- Acknowledged and agreed. Access to the site will be from the Rimer Road public right-of-way. Verizon Wireless will have a 30-foot wide access and utilities easement from Rimer Road to the facility. Please refer to Page C1 of the Site Survey and Drawings prepared by Kimley-Horn and Associates, Inc., attached hereto as Exhibit 6.
- (12) All pertinent development requirements of this chapter;
 - Acknowledged and agreed. Please refer to the Site Survey and Drawings prepared by Kimley-Horn and Associates, Inc., attached hereto as Exhibit
 6.
- (13) Any additional information required by the zoning administrator to assess the merits of the application, including but not limited to traffic impact analysis, environmental impact statements;
 - To-date, the zoning administrator has not requested any additional information.

(14) Floodplains;

- The proposed facility is not located within a 100-year floodplain. Please refer to the NEPA Summary, attached hereto as Exhibit 16.
- (15) Name, location and dimension of any proposed streets, drainage facilities, parking areas, recreation areas, required yards, required turnarounds as applicable;
 - The proposed facility will have a 30' x 60' parking area and vehicle turnaround area at the entrance to the facility. Please refer to Page C2 of the Site Survey and Drawings prepared by Kimley-Horn and Associates, Inc., attached hereto as Exhibit 6.

(16) Screening & Buffering, if applicable;

• Section 21-219 of the Ordinance states that the landscaping requirements of Section 21-215 shall not apply if an existing adjacent principal or accessory structures and the proposed structure are separated by a distance of 200 feet or more. Because the proposed tower will be separated from existing structures by a distance greater than 200 feet, landscaping is not required. Additionally, the facility will be surrounded by existing dense vegetation that will be retained to the maximum extent possible that will provide a screen meeting the requirements in Section 21-215(1)b.1-3. Please refer to Pages C8 through C8.5 of the Site Survey and Drawings prepared by Kimley-Horn and Associates, Inc., attached hereto as Exhibit 6. Please also refer to the Site Images, attached hereto as Exhibit 7.

(17) Zoning District;

- Acknowledged and agreed. The zoning district of the proposed subject property is RA. Please refer to Page T1 of the Site Survey and Drawings prepared by Kimley-Horn and Associates, Inc., attached hereto as Exhibit 6.
- (18) Proposed phasing, if applicable;
 - Not applicable.
- (19) This required site plan shall be in sufficient detail to allow the zoning administrator to reasonably understand the proposed development. The scale shall be one (1) inch equals one hundred (100) feet or greater for zone lots three (3) acres or less in size, or one (1) inch equals two hundred (200) feet for zone lots more than three (3) acres in size.
 - Acknowledged and agreed. Please refer to Sheets 1 through 3 of the Site Survey and Page C1 of the Site Survey and Drawings prepared by Kimley-Horn and Associates, Inc., attached hereto as Exhibit 6.
- III. <u>Section 21-58 Review Procedures.</u> Verizon Wireless fully complies with the applicable standards set forth in the Ordinance as follows:
 - (a) Submission. Applications for conditional use permits shall be submitted to the county planning department accompanied by a nonrefundable fee set by the county board of commissioners. Once received, the Planning Director shall review the request and, if deemed complete, submit a recommendation to the Board of Commissioners to schedule a public hearing regarding the request. Incomplete applications will be returned to the applicant with the deficiencies noted.
 - Acknowledged and agreed. A check in the amount of \$5,000.00 and a check in the amount of \$200.0 made payable to Rowan County is enclosed with this application.
 - (b) Conditional use review. Planning staff shall prepare and present a report on the application to the board(s) reviewing the application. The board shall evaluate the application with reference to applicable conditions contained in this section as well as general criteria contained in this chapter. When deciding conditional use permits, the board of commissioners shall follow quasi-judicial procedures. The board of commissioners may impose reasonable and appropriate conditions upon the conditional use permit that support the findings found in this article.
 - Because these standards refer to the responsibilities of the County, this subsection is not applicable.

- (c) *Site plan required*. Application for conditional use permit review shall require a site plan as provided in section 21-52 of this article. The planning director may also require additional information reasonably required to review the development proposal.
 - Acknowledged and agreed. Please refer to the Site Survey and Drawings prepared by Kimley-Horn and Associates, Inc., attached hereto as Exhibit 6.
- (d) *Oath.* All evidence presented at the public hearing with regard to applications for conditional use permits shall be under oath.
 - Acknowledged and agreed.
- (e) *Required findings*. All decisions regarding a conditional use permit application shall not be approved or denied unless each of the following findings has been made:
 - (1) The development of the property in accordance with the proposed conditions will not materially endanger the public health or safety;
 - Acknowledged and agreed. The proposed tower, if located, developed, and operated according to the plans submitted herewith, will not materially endanger the public health or safety. The proposed facility will be constructed and operated in accordance with all applicable Federal, state, and local laws and ordinances including, but not limited to the Federal Communications Commission (FCC) and Federal Aviation Administration (FAA) rules and guidelines. The facility will be secured by an 8-foot tall locked fence, topped with three strands of barbed wire. The tower will have a 50-foot engineered fall zone radius such that in the unlikely event of tower failure, the tower will fall within Verizon Wireless' lease area. Please refer to the Site Survey and Drawings prepared by Kimley-Horn and Associates, Inc., attached hereto as Exhibit 6. Please also refer to the Airspace Study prepared by Federal Airways & Airspace, attached hereto as Exhibit 10. Please also refer to the NIER Statement signed by Ashutosh Pandey, Radio Frequency Engineer for Verizon Wireless, attached hereto as Exhibit 12. Please refer to the NEPA Summary prepared by S&ME, attached hereto as Exhibit 16.
 - (2) That the development of the property in accordance with the proposed conditions will not substantially injure the value of adjoining or abutting property, or that the development is a public necessity; and
 - Acknowledged and agreed. The proposed tower will not substantially injure the value of adjoining or abutting property. Michael Berkowitz, Certified Real Estate Appraiser, performed a real estate impact study for the proposed tower and concluded that, in his expert opinion, the proposed tower would not substantially injure the value of adjoining or abutting

property. Please refer to the Real Estate Impact Study prepared by Michael Berkowitz, attached hereto as Exhibit 13.

Additionally, the proposed tower is a public necessity. The proposed tower will provide necessary wireless telecommunication capacity and coverage in the area. Improved wireless capacity and coverage will promote public welfare as it will aid the citizens of Rowan County in contacting 911 from mobile devices in emergencies. Furthermore, a growing number of Americans live in wireless-only households. According to the U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Health Statistics, as of late 2016, the majority of American homes only have wireless telephones.¹ Additionally, more than 70% of all adults between the ages of 25-34 and of adults renting homes live in wireless-only households.² Thus, wireless service has become a necessity to the majority of Americans in order to communicate in emergencies and on a day-to-day basis. Please refer to the Network Objective Statement signed by Ashutosh Pandey, Radio Frequency Engineer for Verizon Wireless, attached hereto as Exhibit 4.

- (3) That the location and character of the development in accordance with the proposed conditions will be in general harmony with the area in which it is located and in general conformity with any adopted county plans.
 - Acknowledged and agreed. The property is zoned RA, as are all adjacent properties and the majority of properties in the general vicinity. Communication towers are permitted as a conditional use in the RA zoning district, which is prima facie evidence that the use will be in harmony with the area. In addition, the proposed tower will be located at the rear of an approximately 23.98-acre property that has dense vegetation that will remain to the maximum extent possible to screen the facility from adjacent properties. The proposed tower will be setback approximately one quarter of a mile from the nearest Rimer Road public right-of-way to the south. The closest existing residences are over 750 feet from the proposed tower location. The existing surrounding land uses are forest, agricultural and rural residential in nature such that the proposed facility will be in conformity with the character of the area. The proposed tower will be a monopole-type design without lattice or guy wires in order to be the least visually and physically intrusive facility. The tower will not be lighted. The tower will be galvanized steel to blend with the changing color of the sky. Other than the visibility of the top of the tower, the facility will have a negligible, if any, impact on neighboring properties. The facility will be

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¹ Stephen J. Blumberg, Ph.D., U.S. Department of Health and Hum. Services, Center for Disease Control and Prevention, Nat'l Center for Health Stat., Wireless Substitution: Early Release of Estimates from the National Health Interview Survey, July-December 2016 (2017), http://www.cdc.gov/nchs/data/nhis/earlyrelease/wireless201705.pdf. ² *Id*.

an innocuous use that will not produce any vibration, fumes, odors, or loud noises. The facility will be unmanned with only periodic maintenance approximately one time per month such that there would be no increase in traffic to the area after construction. The facility will have a very small footprint on the overall subject property as the facility will be located on a 100' x 100' lease area with a 60' x 60' compound. Please refer to the Site Survey and Drawings prepared by Kimley-Horn and Associates, Inc., attached hereto as Exhibit 6. Please also refer to the Site Images, attached hereto as Exhibit 7. Please also refer to the Balloon Test Report and Photo Simulations prepared by Michael Gould, Owner and Operator of Gould Digital Imaging, attached hereto as Exhibits 14 and 15, respectively.

Additionally, the proposed tower will be in general conformity with the Rowan County Land Use Plan: Areas East of I-85. The subject property is within Planning Area Two of this plan, which generally consists of lands adjacent to municipalities and areas surrounding High Rock Lake. This area is the most developed of the three identified planning areas and has low-density residential uses with pockets of medium density residential uses as well as highway corridor commercial and industrial uses with some agricultural uses. The NC 152 commercial/industrial corridor is within one mile of the proposed site. The future land use recommendations for the area include a mix of uses and service oriented development, which may include commercial components with residential development to serve proposed and surrounding neighborhoods. The plan also contemplates medium density residential development and the expansion of existing businesses. The plan recognizes the highway businesses along NC 152 east as well as rural businesses along Old Concord Road. The proposed tower will be in general conformity with the contemplated developments and future land use recommendations as it will provide increased wireless capacity and coverage to serve the residences, commercial, and industrial uses in the area. The facility will specifically provide improved service along NC 152 between Old Concord Road and Faith Road and along Old Concord Road to support the commercial businesses along these roadways. Wireless service is now a highly demanded service for both residents and businesses for day-to-day communication and for communication with 911 during emergencies, thus, the proposed facility will support the contemplated development in Planning Area Two and be in general conformity with the Plan.

IV. <u>Section 21-59 - Evaluation Criteria.</u> Verizon Wireless fully complies with the applicable standards set forth in the Ordinance as follows:

In addition to meeting special standards for a particular use, the applicant must illustrate that he/she can comply with the following criteria when any conditional use is proposed.

- (1) Adequate transportation access to the site exists;
 - Acknowledged and agreed. The proposed facility will have an access road and a 30' x 60' parking area and vehicle turnaround area at the entrance to the facility. Access to the site will be from the Rimer Road public right-of-way via a 12-foot wide road to be installed by Verizon Wireless to the entrance of the facility. Please refer to Pages C1 and C2 of the Site Survey and Drawings prepared by Kimley-Horn and Associates, Inc., attached hereto as Exhibit 6.
- (2) The use will not significantly detract from the character of the surrounding area;
 - Acknowledged and agreed. The proposed tower will not significantly detract from the character of the surrounding area. The property is zoned RA, as are all adjacent properties and the majority of properties in the general vicinity. Communication towers are permitted as a conditional use in the RA zoning district, which is *prima facie* evidence that the use will be in harmony with the area. In addition, the proposed tower will be located at the rear of an approximately 23.98-acre property that has dense vegetation to remain to the maximum extent possible to screen the facility from adjacent properties. The proposed tower will be setback approximately one quarter of a mile from the nearest Rimer Road public right-of-way to the south. The closest existing residences are over 750 feet from the proposed tower location. The existing surrounding land uses are forest, agricultural and rural residential in nature such that the proposed facility will be in conformity with the character of the area. The proposed tower will be a monopole-type design without lattice or guy wires in order to be the least visually and physically intrusive facility. The tower will not be lighted. The tower will be galvanized steel to blend with the changing color of the sky. Other than the visibility of the top of the tower, the facility will have a negligible, if any, impact on neighboring properties. The facility will be an innocuous use that will not produce any vibration, fumes, odors, or loud noises. The facility will be unmanned with only periodic maintenance approximately one time per month such that there would be no increase in traffic to the area after construction. The facility will have a very small footprint on the overall subject property as the facility will be located on a 100' x 100' lease area with a 60' x 60' compound. Please refer to the Site Survey and Drawings prepared by Kimley-Horn and Associates, Inc., attached hereto as Exhibit 6. Please also refer to the Site Images, attached hereto as Exhibit 7. Please also refer to the Balloon Test Report and Photo Simulations prepared by Michael Gould, Owner and Operator of Gould Digital Imaging, attached hereto as Exhibits 14 and 15, respectively.

Additionally, Michael Berkowitz, Certified Real Estate Appraiser, performed a real estate impact study for the proposed tower and concluded

that, in his expert opinion, the proposed tower would not substantially injure the value of adjoining or abutting property. Please refer to the Real Estate Impact Study prepared by Michael Berkowitz, attached hereto as Exhibit 13.

(3) Hazardous safety conditions will not result;

Acknowledged and agreed. The proposed tower, if located, developed, and operated according to the plans submitted herewith, will not materially endanger the public health or safety. The proposed facility will be constructed and operated in accordance with all applicable Federal, state, and local laws and ordinances including, but not limited to the Federal Communications Commission (FCC) and Federal Aviation Administration (FAA) rules and guidelines. The facility will be secured by an 8-foot tall locked fence, topped with three strands of barbed wire. The tower will have a 50-foot engineered fall zone radius such that in the unlikely event of tower failure, the tower will fall within Verizon Wireless' lease area. Please refer to the Site Survey and Drawings prepared by Kimley-Horn and Associates, Inc., attached hereto as Exhibit 6 and Exhibit 17 - Engineering Fall Zone Certification. Please also refer to the Airspace Study prepared by Federal Airways & Airspace, attached hereto as Exhibit 10. Please also refer to the NIER Statement signed by Ashutosh Pandey, Radio Frequency Engineer for Verizon Wireless, attached hereto as Exhibit 12. Please refer to the NEPA Summary prepared by S&ME, attached hereto as Exhibit 16.

(4) The use will not generate significant noise, odor, glare, or dust;

• Acknowledged and agreed. The tower will not be lighted. The tower will be galvanized steel to blend with the changing color of the sky. The facility will be an innocuous use that will not produce any vibration, fumes, odors, or loud noises. Please refer to Page C13 of the Site Survey and Drawings prepared by Kimley-Horn and Associates, Inc., attached hereto as Exhibit 6. Please also refer to the Airspace Study prepared by Federal Airways & Airspace, attached hereto as Exhibit 10.

(5) Excessive traffic or parking problems will not result; and

• Acknowledged and agreed. The facility will be unmanned with only periodic maintenance approximately one time per month such that there would be no increase in traffic to the area after construction. Additionally, the facility will have a 30' x 60' parking and turnaround area at the entrance to the facility that will provide the necessary parking space for periodic maintenance. Please refer to Page C2 of the Site Survey and Drawings prepared by Kimley-Horn and Associates, Inc., attached hereto as Exhibit 6.

- (6) Use will not create significant visual impacts for adjoining properties or passersby.
 - Acknowledged and agreed. The proposed tower will not create significant visual impacts for adjoining properties or passersby and will not substantially injure the value of adjoining or abutting property. proposed tower will be located at the rear of an approximately 23.98-acre property that has dense vegetation that is to remain to the maximum extent possible to screen the majority of the facility from adjacent properties. The proposed tower will be setback approximately one quarter of a mile from the nearest Rimer Road public right-of-way to the south. The closest existing residences are over 750 feet from the proposed tower location. The proposed tower will be a monopole-type design without lattice or guy wires in order to be the least visually and physically intrusive facility. The tower will not be lighted. The tower will be galvanized steel to blend with the changing color of the sky. Please also refer to the Balloon Test Report and Photo Simulations prepared by Michael Gould, Owner and Operator of Gould Digital Imaging, attached hereto as Exhibits 14 and 15, respectively.

Respectfully submitted on December 6, 2021.

W. Lee Taylor, III, Esq.

Baker, Donelson, Bearman, Caldwell & Berkowitz, PC

W. Cubayto W

1600 West End Avenue, Suite 2000

Nashville, Tennessee 37203 Phone: (615) 726-5757

Email: ltaylor@bakerdonelson.com

Attorney for Verizon Wireless



Rowan County Department of Planning & Development 402 N. Main Street Ste 204 Salisbury, NC 28144 Phone (704) 216-8588 Fax (704) 638-3130 www.rowancountync.gov

Case #	CUP			
Date Filed	***************************************			
Received By				
Amount Paid	-			
Office Use Only				

——————————————————————————————————————						
OWNERSHIP INFORMATION:						
Name: Debbie L. Craddock and Patricia L. Moore						
Signature: Dibbie & Chaldock, Patricia L. Mon						
Phone: 704-798-2266 Email: N/A						
Address: 725 Parks Road, Salisbury, North Carolina 28146						
APPLICANT / AGENT INFORMATION:						
Name: Baker, Donelson, Bearman, Caldwell & Berkowitz, PC on behalf of Cellco Partnership d/b/a Verizon Wireles						
Signature: White was a second of the second						
Phone: 615-726-5757 Email: Itaylor@bakerdonelson.com						
Address: 1600 West End Avenue, Suite 2000, Nashville, Tennessee 37203						
PROPERTY DETAILS:						
Tax Parcel: 422 179 (PIN 5656-04-83-5790) Zoning District: RA						
Date Acquired: 2015 Deed Reference: Book 1261 Page 471						
Property Location: 280 Rimer Road, Salisbury, North Carolina 28146						
Size (sq. ft. or acres): 23.98 Street Frontage: 30'						
Current Land Use: Forested and garage						
Surrounding Land Use: North Vacant/Wooded						
South Residential and Agricultural						
East Residential, Vacant/Wooded and Agricultural						
Wast Residential Forested and Agricultural						

PURPOSE & SECTION:						
State purpose of conditional use permit:						
Construction of a new 165' wireless telecommunication tower (with 4' lightning rod).						
Cite section(s) of Zoning Ordinance which permit is being requested: 21-60(3) - Transportation, communications, electric, gas, and sanitary services group: Communications and Wireless Support Structures						
ATTACHED DOCUMENTS:						
Applicant must attach a response to the evaluation criteria from Section 21-59 and an accompanying site plan based on information required in Section 21-52 and 21-60. Attached: Yes No						
Applicant shall, at the time the application is made, present all the necessary evidence (maps, drawings, statements, certifications, etc.) showing how the requirements of the applicable sections of the Zoning Ordinance will be met.						
OFFICIAL USE ONLY						
1. Signature of Coordinator:						

NAME OF LANDOWNER: Debbie L. Craddock and Patricia L. Moore

ADDRESS: 725 Parks Road

CITY, STATE, & ZIP: Salisbury, North Carolina, 28146

DATE: November 6, 2017

Rowan County Planning & Development

ATTN: Ed Muire, Planning & Development Director

402 N. Main Street Salisbury, NC 28144

RF-

CONSTRUCTION OF A NEW WIRELESS SUPPORT STRUCTURE LOCATED

IN ROWAN COUNTY, NORTH CAROLINA

FOR PROPERTY LOCATED AT:

280 Rimer Road

Salisbury, North Carolina 28146

PARCEL ID:

422 179

To Whom It May Concern:

Please be advised that Debbie L. Craddock and Patricia L. Moore are the owners of record of the property described above, and hereby authorize Baker, Donelson, Bearman, Caldwell & Berkowitz, PC as attorney for Cellco Partnership d/b/a Verizon Wireless to act on their behalves in requesting any and all necessary approvals for the above-noted property to allow for construction of a communication tower and all related ancillary structures.

Sincerely.

Debbie L. Craddock

Date: 11-5-2017

Patricia L. Moore

Date: 11-5-2017





Rowan County Planning & Development ATTN: Ed Muire, Planning & Development Director 402 N. Main Street Salisbury, NC 28144

Re: Verizon Wireless Network Objective Statement - MOUNT HOPE

Dear Mr. Muire:

The purpose of this letter is to address Cellco Partnership D/B/A Verizon Wireless' (Verizon Wireless) application for a new telecommunication tower at 280 Rimer Road, Salisbury, North Carolina 28146. The anchor tenant on the proposed new telecommunication tower will be Verizon Wireless. Verizon Wireless' objective in connection with the proposed site is to improve capacity and coverage to the area southwest of Faith, North Carolina, mainly west of Faith Road, north of HWY 152 East, and east of Old Concord Road. The Mount Hope Area is currently served by the existing Verizon Wireless Granite site. However, greater network density – additional network capacity - is needed to meet the growing needs of Verizon Wireless customers in the Mount Hope Area.

The proposed Mount Hope new telecommunication tower will provide the needed capacity offload solution for a sector of the existing Verizon Wireless Granite site, thereby serving the growing demands of its customers and preventing the negative service implications of capacity exhaustion.

Wireless carriers have had a consistent need since the beginning of Cellular Telephony to increase the density of the network as customer demand for wireless services increased, and additional network capacity became more of a necessity. However, since the introduction of 3G data services, and subsequent evolution to 4G LTE technology, the requirement to rapidly advance the process of cell densification has become essential in order to meet the user demand for data services and increased mobility.

In the past, wireless networks primary services were voice and short message service, which were handled by circuit-switched channels over the radio frequency spectrum. In order to increase capacity, the carrier could increase the number of channels up to the point where the carrier's owned spectrum became exhausted. In meeting the demand for high speed data services over the 4G network, and subsequently voice and SMS services over 4G as well, wireless carriers must use all available spectrum from the beginning. As a result, the size of a cell site is no longer defined as coverage, but rather by how many users can be supported and what data rates can be sustained. When a cell site reaches its capacity limit it is realized by the customer in the form of websites taking too long to load or timing out, and emails that are

unable to download or send, as well as issues with voice calls when carried over the 4G network. When the capacity of an existing site is exhausted, a capacity offload solution is required in order to provide the same level of service within a given area.

The proposed Mount Hope new communications tower will provide the needed capacity offload solution for the existing Verizon Wireless Granite site, thereby serving the growing demands of its customers and preventing the negative service implications of capacity exhaustion. The proposed Mount Hope new communications tower will also provide increased coverage to connect with existing nearby Verizon Wireless sites.

Sincerely,

Ashutosh Pandey

RF Engineer – Verizon Wireless



verizon/

8921 RESEARCH DRIVE CHARLOTTE, NC 28262

MOUNT HOPE

SITE ADDRESS (E-911 TBD)

280 RIMER ROAD SALISBURY, NC 28146 ROWAN COUNTY LATITUDE: 35° 33' 55.5" N LONGITUDE: 80° 29' 05.8" W TAX/PIN #: 422 179 ZONING: RA

BOSTIAN HEIGHTS FIRE DEPARTMENT
8211 OLD CONCORD RD
SALISBURY, NC 28146
PHONE: (704) 857-0208
ATTN: CUSTOMER SERVICE

VICINITY MAP

ROWAN COUNTY SHERIFF'S OFFICE 232 N MAIN ST SALISBURY, NC 28144 PHONE: (704) 216-8700 ATTN.: CUSTOMER SERVICE

FROM CHARLOTTE OFFICE HEAD SOUTHWEST ON RESEARCH OR 0.4 M. TURN LEFT ONTO WAY HARRISB BLYD J.4.M. TURN LEFT CNITO JES IN RAMP D.3.M. MERRIGO FOOL SHIS S.M. THE SEET IS FOR DECORES WILLESS TO TURN LEFT ONTO JES IN RAMP D.3.M. MERRIGO FOOL SHIS S.M. THE SEET IS FOR DECORES WILLES FOR THE SEET ONTO JES IN THE SEET ONTO D.4.M. CONTINUE ONTO JES IN TURN LEFT ONTO D.4.M. CONTINUE ONTO JES IN TURN LEFT ONTO D.4.M. CONTINUE ONTO JES IN TURN LEFT O

DRIVING DIRECTIONS

JURISDICTION: ROWAN COUNTY STATE: NORTH CAROLINA

TOWER TYPE: MONOPOLE TOWER

TOWER HEIGHT: 165' (169' TO HIGHEST APPURTENANCE)

....

NUMBER OF CARRIERS: 0 EXISTING, 1 PROPOSED

USE: PROPOSED TELECOMMUNICATIONS TOWER AND UNMANNED EQUIPMENT

FLOOD INFO SITE IS LOCATED WITHIN FEMA FLOOD MAP AREA 3710565600J DATED 06/16/2009 WITHIN FLOOD ZONE X.

PROJECT SUMMARY

DEVELOPER
VERIZON WIRELESS
8921 RESEARCH DRIVE
CHARLOTTE, NC 28262
PHONE: (704) 577-8785
ATTN: MICHAEL HAVEN

POWER COMPANY
DUKE ENERGY
PHONE: (800) 777-9898
ATTN.: CUSTOMER SERVICE

PROPERTY OWNER
PATRICIA MOORE & DEBBIE CRADDOCK
725 PARKS RD
SALISBURY, NC 28146
PHONE: (704) 798-2266
ATTN.: PATRICIA MOORE

CONSULTANT KIMLEY-HORN AND ASSOCIATES, INC. 11720 AMBER PARK DRIVE, SUITE 600 ALPHARETTA, GEORGIA 30009 PHONE: (770) 545-6105 ATTN.: DAVID FRANKLIN

CONTACTS

SHEET NO.	SHEET TITLE			
T1	COVER SHEET			
T2	APPENDIX B - BUILDING CODE SUMMARY			
-	SITE SURVEY (SHEET 1 OF 3)			
-	SITE SURVEY (SHEET 2 OF 3)			
-	SITE SURVEY (SHEET 3 OF 3)			
N1	GENERAL NOTES			
C0	OVERALL PARCEL PLAN			
C1	OVERALL SITE PLAN			
C2	SITE PLAN			
C3	EQUIPMENT PAD LAYOUT			
C4	EQUIPMENT RACK DETAIL - FRONT			
C5	EQUIPMENT RACK DETAIL - REAR			
C6	CONCRETE PAD FOUNDATION DETAILS			
C7	FENCE, GATE, AND COMPOUND DETAILS			
C8	GRADING & EROSION CONTROL PLAN			
C8.1	GRADING & EROSION CONTROL PLAN 2			
C8.2	GRADING & EROSION CONTROL PLAN 3			
C8,3	GRADING & EROSION CONTROL PLAN 4			
C8.4	GRADING & EROSION CONTROL PLAN 5			
C8.5	GRADING & EROSION CONTROL PLAN 6			
C9	GRADING AND EROSION CONTROL DETAILS			
C10	ACCESS ROAD DETAILS			
C11	SITE SIGNAGE DETAILS			
C12	WAVEGUIDE BRIDGE DETAILS			
C13	ANTENNA AND TOWER ELEVATION DETAILS			
E1	ELECTRICAL NOTES			
E2	UTILITY SERVICE ROUTING PLAN			
E3	OVERALL UTILITY ROUTING PLAN			
E4	METER RACK DETAILS			
E5	ELECTRICAL SINGLE LINE DIAGRAM			
E6	PANEL SCHEDULE			
E7	ELECTRICAL DETAILS			
E8	GROUNDING NOTES			
E9	GROUNDING PLAN			
E10	GROUNDING SINGLE LINE DIAGRAM			
E11	GROUNDING DETAILS			
E12	GROUNDING DETAILS			
SHEET INDEX				

ROWAN COUNTY PLANNING & ZONING 402 N MAIN ST #204 SALISBURY, NC 28144 PHONE: (704) 216-8602 ATTN.: SHANE STEWART

PERMIT INFORMATION

VERIZON

BOZI RESEARCH DRIVE
CHARLOTTE, NORTH CARCUNA 28202

SITE NAME:
MOUNT HOPE
SITE No.: 304662
PROJECT #: 16675538

280 RIMER ROAD SALISBURY, NC 28146 ROWAN COUNTY

Kimley»Horn

O AMBER PARK DRIVE, SUITE 600 ALPHARETTA, GA 30009 PHONE: 770-619-4280 WWW.MMLEY-HORN.COM





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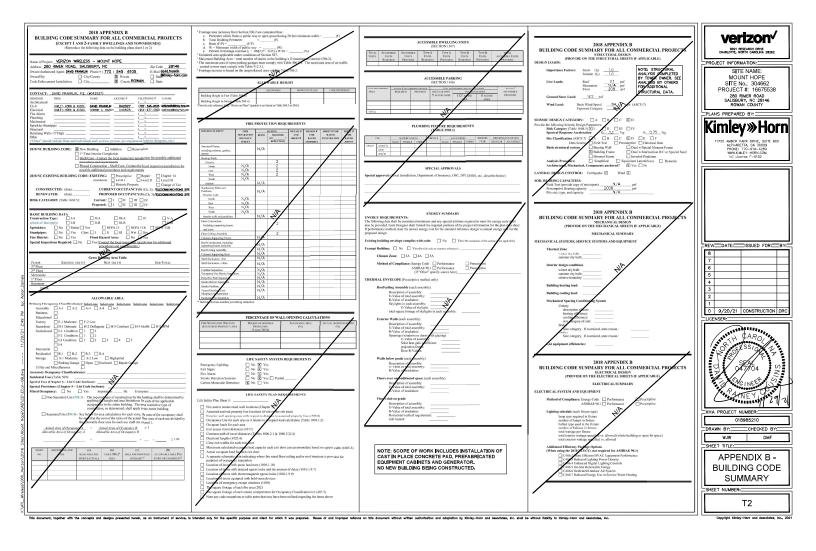
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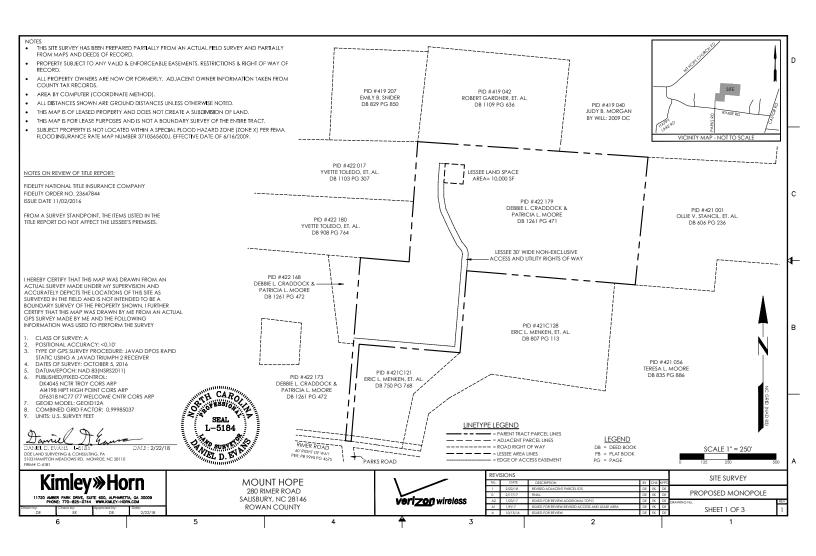
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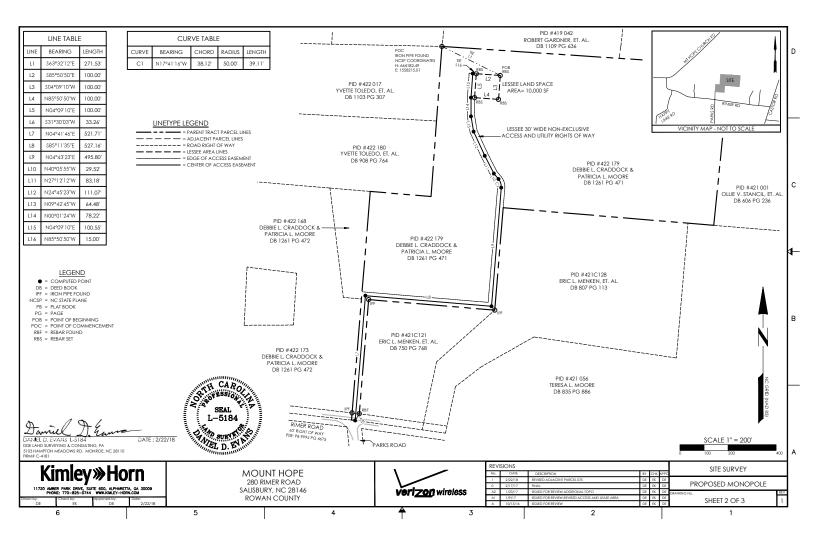
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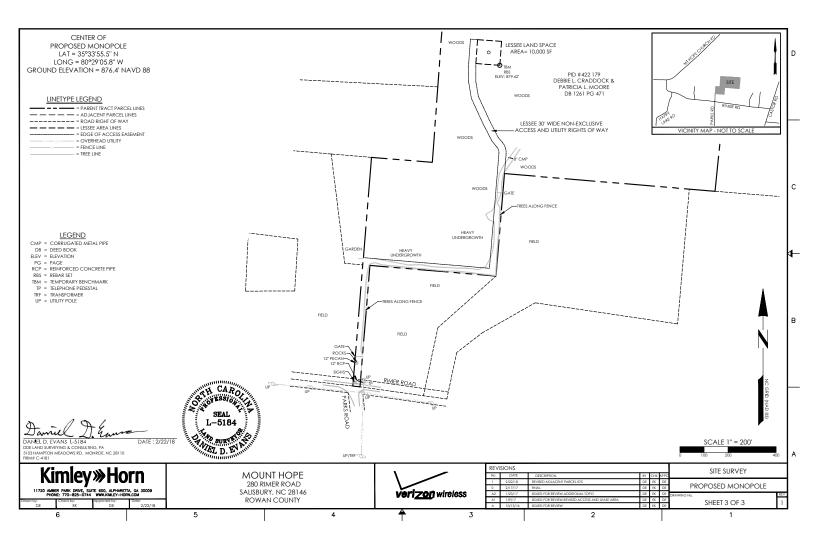
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- 1.01 ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE DRAWINGS AND SPECIFICATIONS. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE, LOCAL AND NATIONAL CODE, ORDINANCES AND OR REGULATIONS APPLICABLE TO THIS PROJECT.
- 1.02 THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE PROJECT MANAGER AND/OR ENGINEER AND BE RESOLVED BEFORE PROCEDING WITH WORK WHERE THERE IS A COMPLICY BE INVESTIGATION OF THE TRANSPORT OF THE WERE THE RESOLVED PROJECT ENGINEER SHOULD BE CONTRACTED FOR CLASIFICATION.
- 1.03 ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE PROJECT MANAGER AND/OR ENGINEER SO THAT PROPER REVISIONS MAY BE MADE. MODIFICATION OF DETAILS OF CONSTRUCTION SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE PROJECT MANAGER AND/OR ENGINEER.
- 1.04 CONTRACTOR SHALL REVIEW AND BE FAMILIAR WITH SITE CONDITIONS AS SHOWN ON THE ATTACHED SITE PLAN AND/OR SURVEY DRAWINGS.
- 1.05 WAVEGUIDE BRIDGE AND EQUIPMENT CABINETS ARE SHOWN FOR REFERENCE ONLY. REFER TO SEPARATE DRAWINGS FOR SPECIFIC INFORMATION.
- 1.06 ALL FINISHED GRADES SHALL SLOPE MINIMUM 1/4 IN./FT. AWAY FROM EQUIPMENT IN ALL DIRECTIONS. CONTRACTOR SHALL SLOPE SWALES AS REQUIRED ALONG EXISTING TERRAIN TO DRAIN AWAY FROM COMPOUND AND ACCESS DRIVE.
- THE PROPOSED TOWER AND TOWER FOUNDATIONS WERE DESIGNED BY OTHERS. TOWER INFORMATION PROVIDED ON THESE FLANS ARE PROVIDED FOR REFERENCE PURPOSES ONLY. NOTIFY ENOINEER OR PROJECT MANAGER OF ANY CONFLICTS OR DISCREPANCIES. CONTRACTOR TO OBTAIN COPY OF TOWER DESIGN DRAWINGS, IF AVAILABLE, FROM VERIZON PROJECT MANAGER TO CONFIRM COAX ROUTING AND ANTENNA WOUTH INFORMATION.
- 1.08 THE CONTRACTOR SHALL PROVIDE ADEQUATE EXCAVATION SLOPING, SHORING, BRACING, AND GUYS IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL SAFETY ORDINANCES.
- 1.09 UPON COMPLETION OF CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES TO THE EXISTING ACCESS ROAD AND COMPOUND GRAVEL AREAS, ANY NEW FILL MATERIALS SHALL BE COMPACTED.
- 1.10 THE CONTRACTOR IS HEREBY NOTIFIED THAT PRIOR TO COMMENCING CONSTRUCTION, HE IS RESPONSIBLE FOR CONTACTING THE UTILITY COMPANIES INVOLVED AND SHALL REQUEST AND OF THE WAY THE CONTRACT OF THE WAY TO SHALL REQUEST AND OF THE WAY THE CONTRACT OF THE WAY TO SHALL REQUEST AND WHERE THEY MAY TO SHALL REQUEST AND WHERE THEY MAY TO SHALL REQUEST AND WHERE THEY MAY TO SHALL REQUEST AND WAY SHOWN AND THE CONTRACTOR OF ANY SUBCONTRACTOR FOR THIS CONTRACT WHICH REQUIRED TO NOTIFY YOURTH CAROLINA BIT 48 HOURS IN ADVANCE OF PERFORMING ANY WORK BY CALINDS THE TOLL FREE WAIDER (2010) 522-4949 (OR 811). ANY UTILITY OF THE CONTRACTOR, AT MO EXPENSE TO THE OWNER.
- 1.11 CONTRACTOR TO PROVIDE DUMPSTER AND PORTABLE TOILET FACILITY DURING CONSTRUCTION.
- 1.12 CONTRACTOR TO PROVIDE STYMIE LOCK OR EQUIVALENT AS APPROVED BY VERIZON PROJECT MANAGER.
- 1.13 CONTRACTOR TO PROVIDE ANY NECESSARY SIGNAGE PER VERIZON PROJECT MANAGER'S INSTRUCTIONS. SEE DETAIL ON SHEET C11.

- 2.01 FOUNDATIONS ARE DESIGNED FOR A PRESUMPTIVE ALLOWABLE SOIL BEARING CAPACITY OF 2,000 PSF. CONTRACTOR SHALL VERIFY SOIL CONDITIONS AND BEARING CAPACITY PRIOR TO CONSTRUCTION.
- 2.02 EXCAVATE A MINIMUM 18" BELOW PROPOSED EQUIPMENT FOUNDATIONS OF EXPANSIVE, ORGANIC, UNCONSOLIDATED OR OTHERWISE UNACCEPTABLE MATERIAL AND REPLACE WITH WELL—COMPACTED MATERIAL ACCEPTABLE TO VERTIZON.
- 2.03 CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, PROTECTING, AND RELOCATING AS REQUIRED ALL SERVICE AND UTILITY LINES IN VICINITY OF THE WORK SITE. ALL EXCANTIONS NEAR THESE LINES TO BE CARRIED OUT WITH EXTREME CAUTION. COORDINATE ALL RELOCATIONS WITH THE PROPERTY OWNER.
- EXTREME CAUTION. COORDINATE ALL RELOCATIONS WITH THE PROPERTY OWNER.

 2.04 CONTRACTOR TO CLLYFFLL EXISTING COMPOUND SUBSIOL. TO PROVIDE AN AREA.

 AS LEVEL AS POSSBLE FOR THE EQUIPMENT FOUNDATIONS, ALL FILL AREAS ARE

 TO BE FILLED WITH SUTRABLE MATERIAS. BILL MATERIALS ARE TO BE FILACED.

 COMPACTED, AND TESTED IN ASMINUM LAYERS OF 8°. COMPACTION OF ALL FILL

 MATERIAL SHALL ACHIEVE 95 PERCENT OF MAXIMUM POY POENSITY AT OF PIMUM

 MOISTURE CONTENT IN ACCORDANCE WITH ASTM D

 898. ALL TESTS MUST MEET THE MINIMUM SPECIFIED SOIL BEARING CAPACITY.

 COMPACTION TESTING IS BY THE GOTECHNICAL TESTING COMPANY DESIGNATED

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- 2.05 CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS AND SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST REVISION TO ACI-316 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
- 2.06 CONCRETE SHALL HAVE A SLUMP BETWEEN 3" AND 6".
- 2.07 FIBERS FOR CONCRETE SHALL BE FIBERMESH 650, 100 PERCENT VIRGIN DUTPROPYLLINE FIBERLLATED FIBERS, e3 PATENTED TECHNOLOGY PATENTED TECHNOLOGY CONTAINING NO REPROCESSED GLEFIN MATERIALS. THE FIBERS SHALL CONFORM TO ASTIM C1116 TYPE III AND MANUFACTURED SPECIFICALLY FOR THE SECONDARY REINFORCEMENT OF CONCRETE.
- 2.08 THE FIBERS SHALL BE MANUFACTURED IN AN ISO 9001: 2008 CERTIFIED MANUFACTURING FACULTY. UNLESS OTHERWISE STATED, FIBERWESH 650 MACRO-SYNHTHEIT FIBERS SHALL BE ADDED TO THE CONCRETE AT THE BATCHING PLANT AT THE RECOMMENDED APPLICATION RATE OF 3 LBS/YD¹ AND MIXED FOR A SUFFICIENT TIME (MINIMUM S MINUTES AT FULL MIXING SPEED) TO ENSURE UNIFORM DISTRIBUTION OF THE FIBERS THROUGHOUT THE CONCRETE. FIBROUS CONCRETE RENORCEMENT SHALL BE MANUFACTURED BY FIBERMESH, 4019 INDUSTRY DRIVE, CHATTANDOGA, TN. 37416 USA, TEL: 800 621–1273, WEBSITE: WWW.FIBERMESH.COM
- 2.09 AT THE REQUEST OF THE VERIZON WRELESS PROJECT MANAGER, TEST CYLINDERS SHALL BE MOLDED AND LABORATORY CURED IN ACCORDANCE WITH ASTM C33. THREE CYLINDERS SHALL BE TAKEN FOR EACH DAY'S CONCRETE PLACEMENT. CYLINDERS SHALL BE TESTED IN ACCORDANCE WITH THE LATEST REVISION TO ASTM C39.
- 2.10 CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH $\frac{\pi}{4}$ x 45 CHAMFER, UNLESS OTHERWISE NOTED.
- 2.11 CONCRETE FORMWORK IS TO BE STRIPPED WITHIN 48 HOURS, WBRATION OF THE CONCRETE MUST ASSURE THAT HOWEYCOMBING WILL BE AT A WIMMUM, MCCHNIGAL BRATION OF ALL CONCRETE IS REQUIRED UNLESS OTHERWISE DIRECTED BY VERTICON WRELESS' PROJECT MANAGER, ABOVE GRADE CONCRETE IS TO GE RUBBED AND PATCHED TO ASSURE SMOOTH FINISH AT TIME OF FORMS REMOVAL, CONTRACTOR SHALL PROVIDE A BROOM FINISH ON THE TOP SUFFACE OF THE COUPMENT FOUNDATION UNLESS OTHERWISE DIRECTED BY VERIZON WRELESS' PROJECT MANAGER.
- 2.12 TOPS OF CONCRETE FOUNDATION MUST BE WITHIN 0.02' OF ELEVATION REQUIRED.
- 2.13 TOP OF FOUNDATION FINISH TO BE LEVEL $\pm k$ IN 10.
- 2.14 TOP OF FOUNDATION TO HAVE MEDIUM BROOM FINISH.
- 2.15 CONTRACTOR SHALL REFER TO DRAWINGS OF OTHER TRADES AND VENDOR DRAWINGS FOR EMBEDDED ITEMS AND RECESSES NOT SHOWN ON THE STRUCTURAL DRAWINGS. CONTRACTOR SHALL VERIFY PLACEMENT OF EQUIPMENT AND LOCATION OF CONDUIT FOR MANUFACTURER'S AND VENDORS SPECIFICATIONS. IT SHALL BE ITHE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL OPENINGS AND SLEEVES FOR PROPER DISTRIBUTION OF ALL UTILITIES.



SITE NAME: MOUNT HOPE SITE No.: 304662 PROJECT #: 16675538 280 RIMER ROAD SALISBURY, NC 28146 ROWAN COUNTY

Kimley »Horn

AMBER PARK DRIVE, SUITE ALPHARETTA, GA 30009 PHONE: 770-619-4280 WWW.MILEY-HORN.COM

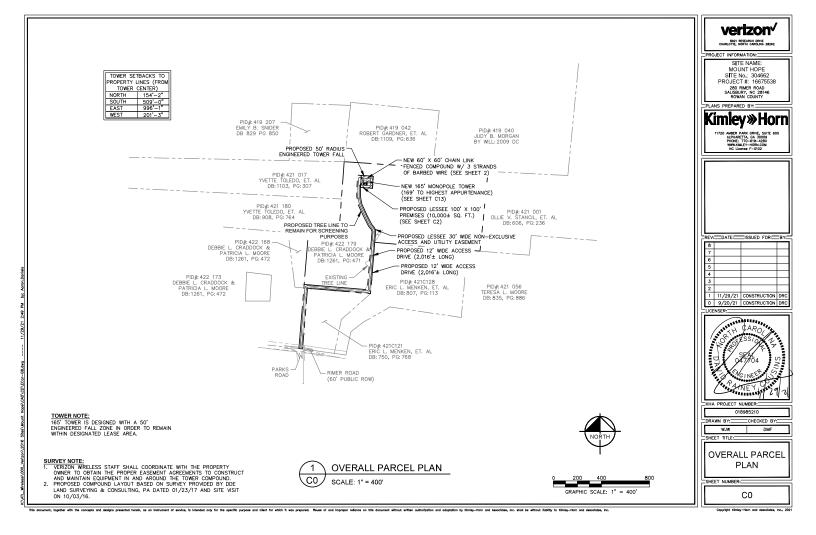


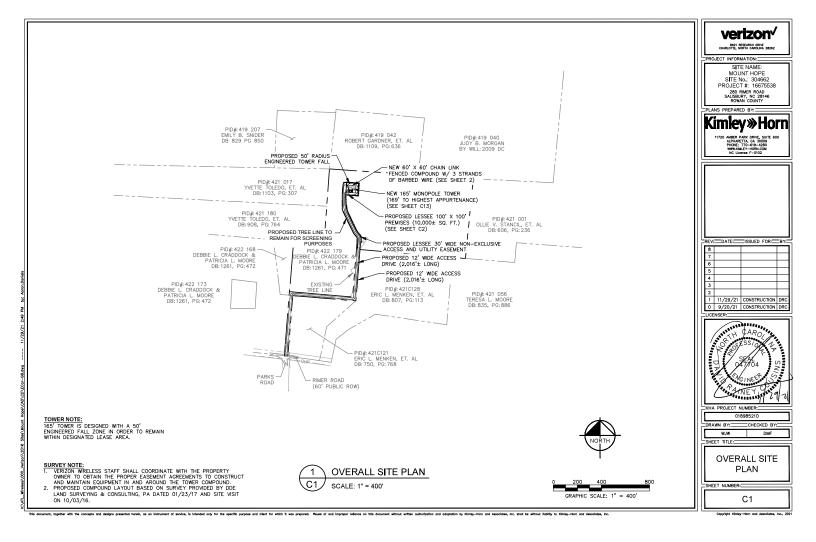
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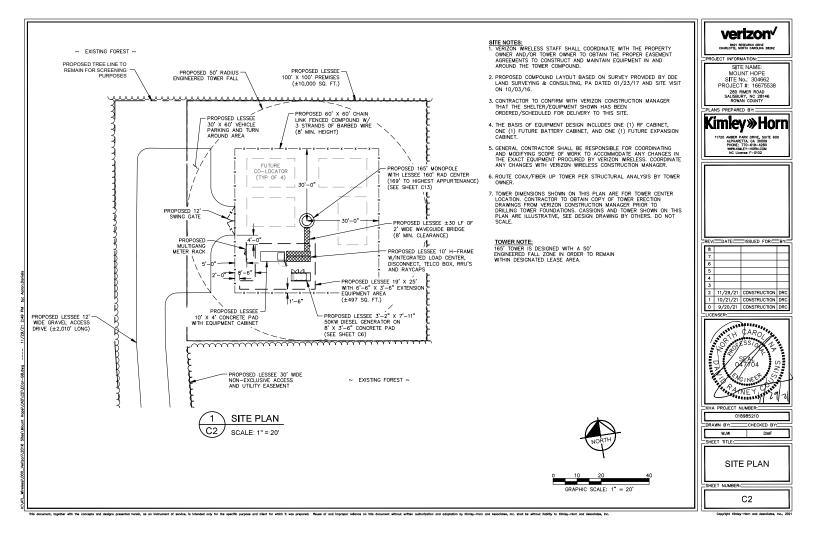


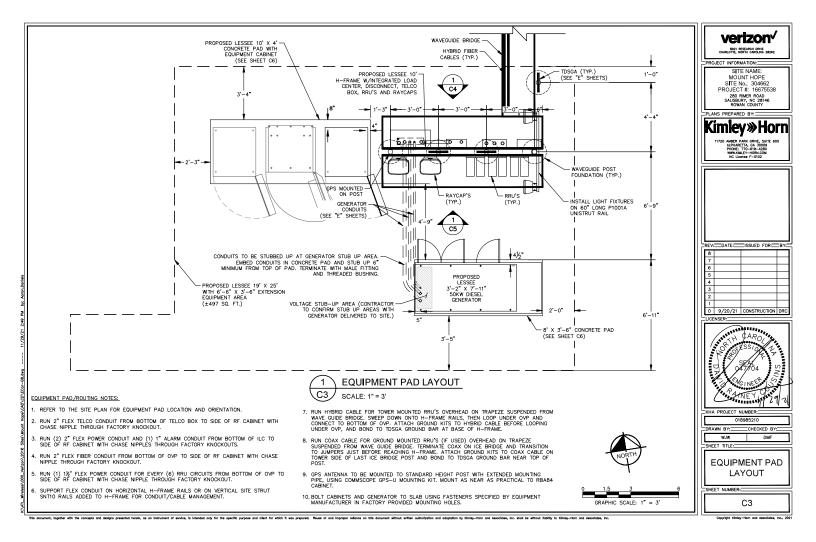
GENERAL NOTES

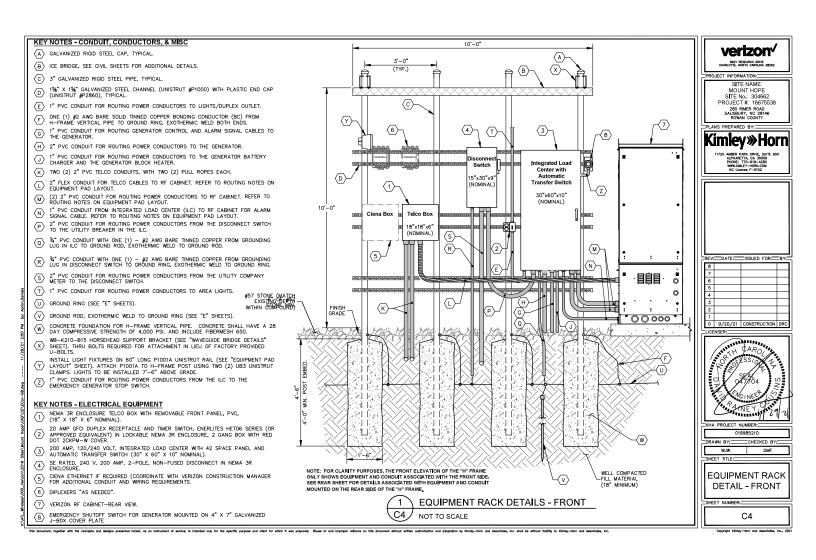
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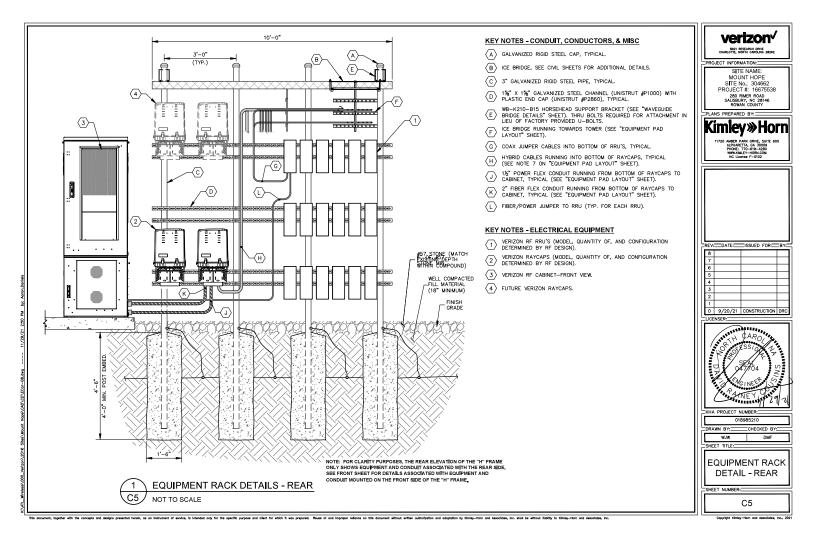


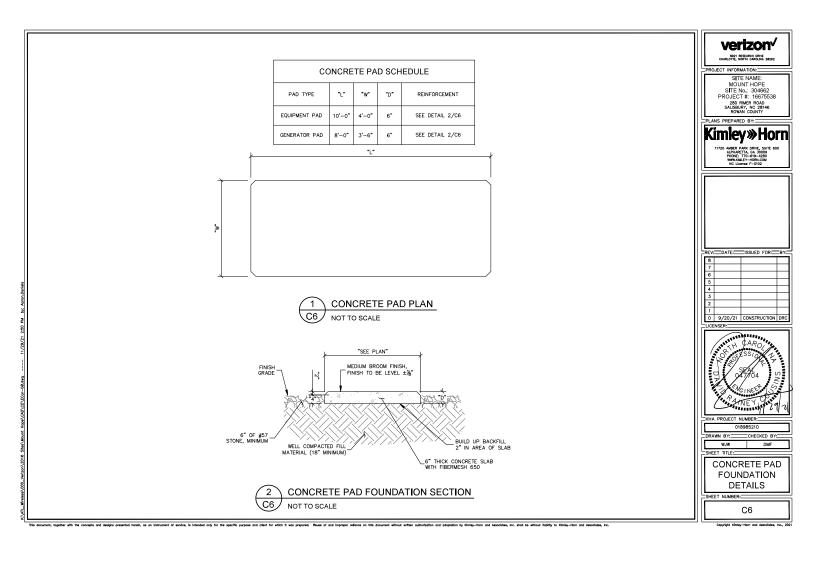


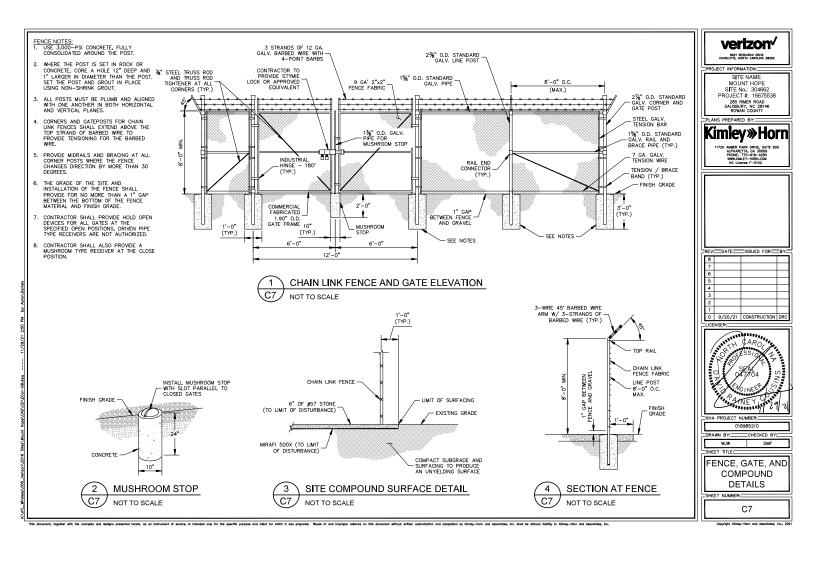








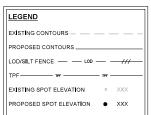


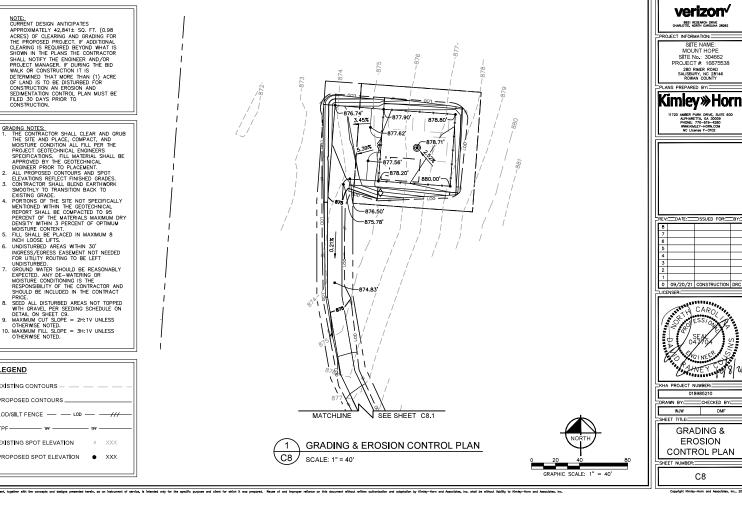


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3. CONTRACTOR SHALL BELD BARTHMORK
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4. PORTIONS OF THE SITE NOT SPECIFICALLY
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5. FILL SHALL BE CUPLACED IN MAXIMUM 8
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6. UNDISTUREDED ARRASSEMENT MOST NEEDED
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7. GROUND WATER SHOULD BE REASONABLY
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8. SEED ALL DISTURBED ARRAS NOT TOPPED
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10. MAXIMUM CUT SLOPE = 2H: 1V UNLESS
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verizon/

8921 RESEARCH DRIVE

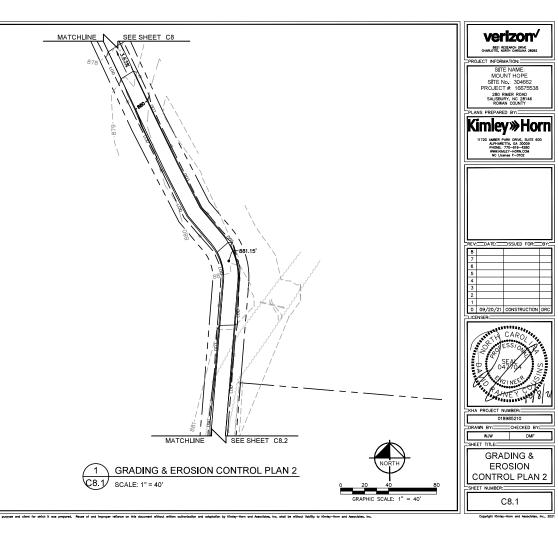
GRADING & **EROSION**

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PROPOSED CONTOURS		
LOD/SILT FENCE - LOD -	_	//
TPF	- TPF	
EXISTING SPOT ELEVATION	Х	XXX
PROPOSED SPOT ELEVATION	•	xxx

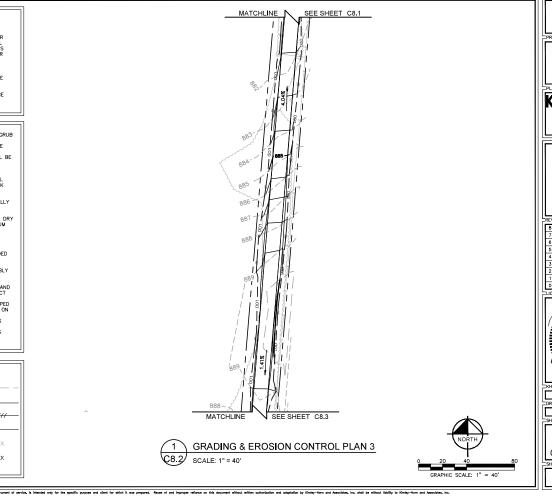


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TPF	TPF -	
EXISTING SPOT ELEVATION	Х	XXX
PROPOSED SPOT ELEVATION	•	xxx



verizon/ 8921 RESEARCH DRIVE CHARLOTTE, NORTH CAROLINA 28262

SITE NAME:
MOUNT HOPE
SITE No.: 304662
PROJECT #: 16675538
280 RIMER ROAD
SALSBURY, NC 28146
ROWAN COUNTY

NS PREPARED BY: Kimley»Horn

11720 AMBER PARK DRIVE, SUITE
ALPHARETTA, GA 30009
PHONE: 770-619-4280
WWW.KIMLEY-HORN.COM
NC License F-0102

GRADING &

EROSION CONTROL PLAN 3

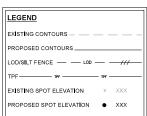
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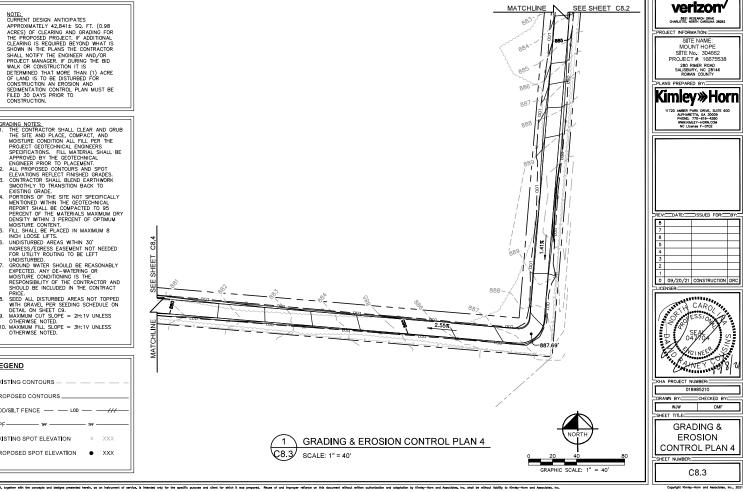
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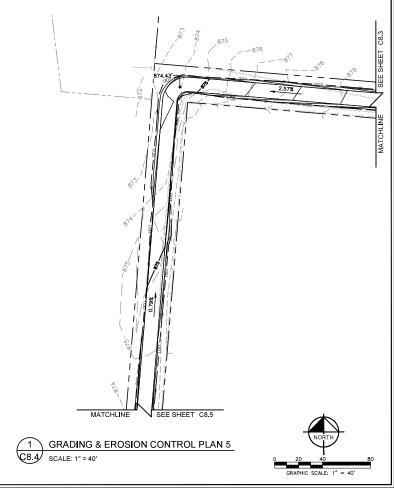


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<u>LEGEND</u> EXISTING CONTOURS PROPOSED CONTOURS _ LOD/SILT FENCE - LOD - -EXISTING SPOT ELEVATION X XXX



verizon/ 8921 RESEARCH DRIVE CHARLOTTE, NORTH CAROUNA 28262

SITE NAME:
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280 RIMER ROAD
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ROWAN COUNTY

Kimley Horn

11720 AMBER PARK DRIVE, SUITE ALPHARETTA, GA 30009 PHONE: 770-619-4280 WW.KIMLEY-HORN.COM NC License F-0102

GRADING & **EROSION** CONTROL PLAN 5

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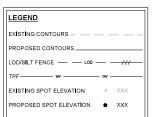
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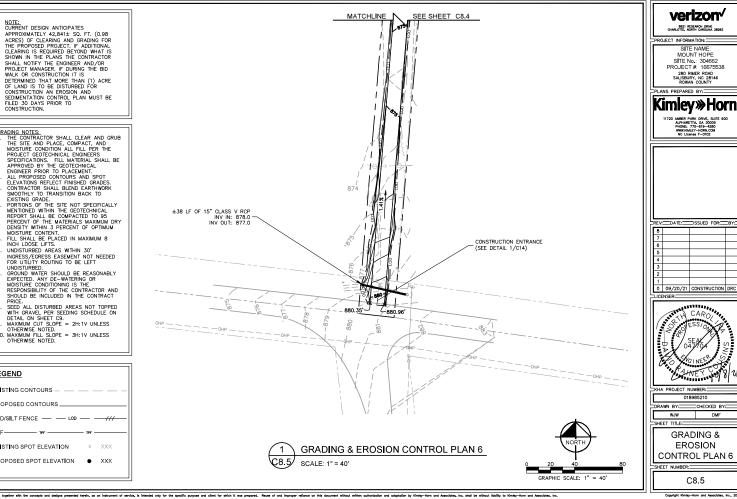
PROPOSED SPOT ELEVATION • XXX

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- ALL EXCAVATED SOILS NOT NEEDED ON SITE FOR BACKFILL OPERATIONS SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE TAKEN OFF SITE AND LEGALLY DISPOSED OF.
- SOIL REMAINING ON SITE SHALL HAVE SILT FENCE TIGHTLY PLACED AROUND THE ENTIRE CIRCUMFERENCE OF THE PILE.
- PROVIDE EROSION CONTROLS AS NECESSARY TO PREVENT EXISTING SOILS FROM DRAINING OFF SITE OR INTO EXISTING DRAINAGE STRUCTURES.
- ERECTION OF EROSION CONTROLS SHALL BE IN ACCORDANCE WITH STATE AND LOCAL EROSION CONTROL REGULATIONS.

SEEDING SCHEDULE FOR WINTER / SPRING CONSTRUCTION ACTIVITIES

SEEDING MIXTURE

Rye (grain)
Annual lespedeza (Kobe in Pledmont and Coastal Plain, Korean in Mountains)

 \mbox{Omit} annual lespedeza when duration of temporary cover is not to extend beyond June.

SOIL AMENDMENTS

Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10–10–10 fertilizer.

MAINTENANCE
Refertilize if growth is not fully adequate. Reseed, refertilize and mulch immediately following erosion or other damage.

SEEDING SCHEDULE FOR SUMMER CONSTRUCTION ACTIVITIES

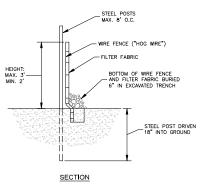
SEEDING MIXTURE Rate (Ib/acre) 40-80 (1-2 lb/1,000 sq.ft.) Species Common Bermudagrass

SEEDING DATES
Coastal Plain—Apr. 1 — July
Piedmont—Apr. 15 — June 30

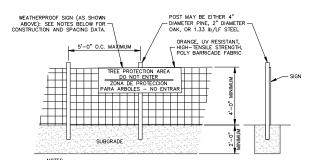
SOIL AMENDMENTS
Apply lime and fertilizer according to soil tests, or apply 3,000 lb/acre ground agricultural limestone and 500 lb/acre 10-10-10 fertilizer.

MULCH
Use jute, availation matting, or other effective channel lining
material to cover the bottom of channels and ditches. The lining
should extend above the highest calculated depth of flow. On
channel side allopes above this height, and in drainages not
requiring temporary lining, apply 4,000 ib/acre grain straw and
another straw by stapling netting over the top.

MAINTENANCE
A minimum of 3 weeks is required for establishment. Inspect and repair mulch frequently. Refertilize the following Apr. with 50 lb/core nitrogen.



SEDIMENT FENCE (SILT FENCE) C9/ NOT TO SCALE



NOTES:
INSTALL TREE PROTECTION FENCE AND SIGNAGE PRIOR TO CALLING FOR SITE INSPECTION. MAINTAIN TREE PROTECTION FENCE THROUGHOUT DURATION OF PROJECT. ADDITIONAL SIGNS MAY BE REQUIRED BASED ON ACTUAL FIELD CONDITIONS.



verizon/ 8921 RESEARCH DRIVE VRLOTTE, NORTH CAROLINA 282

SITE NAME: MOUNT HOPE SITE No.: 304662 PROJECT #: 16675538 280 RIMER ROAD SAUSBURY, NC 28146 ROWAN COUNTY

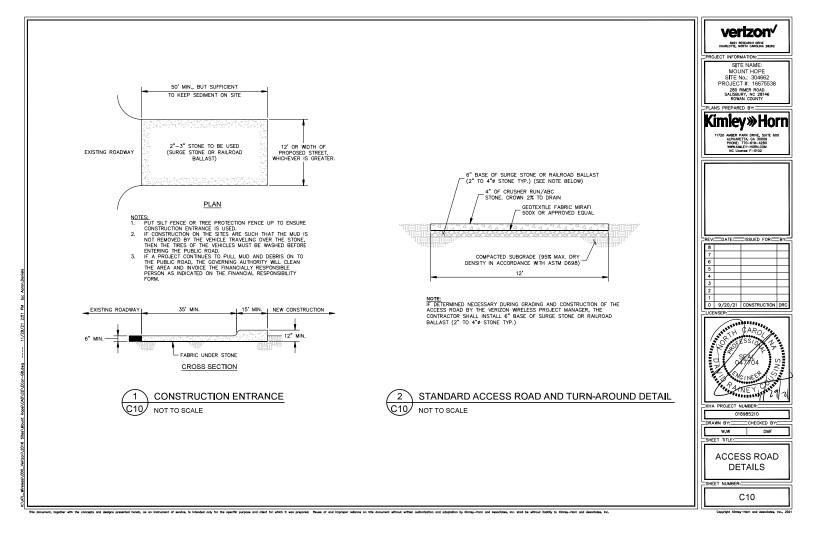
Kimley» Horn AMBER PARK DRIVE, SUITE ALPHARETTA, GA 30009 PHONE: 770-619-4280 WWW.MMLEY-HORN.COM

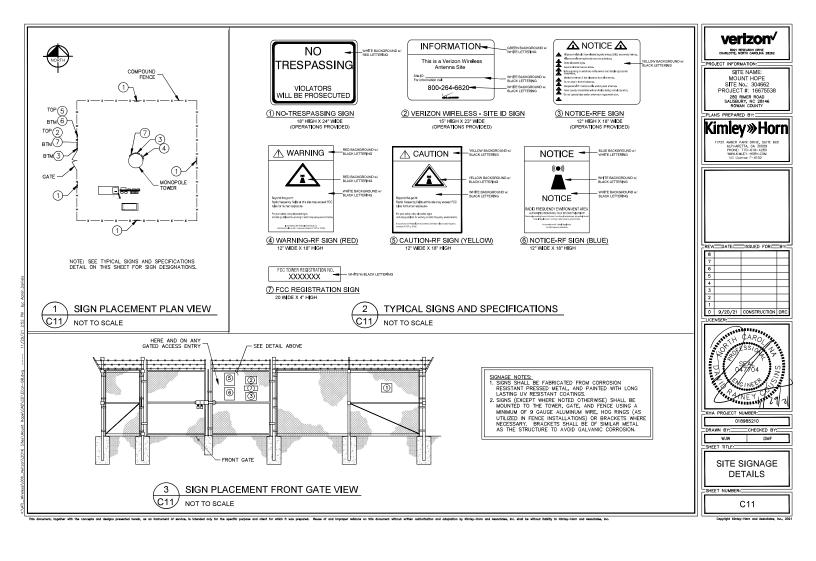


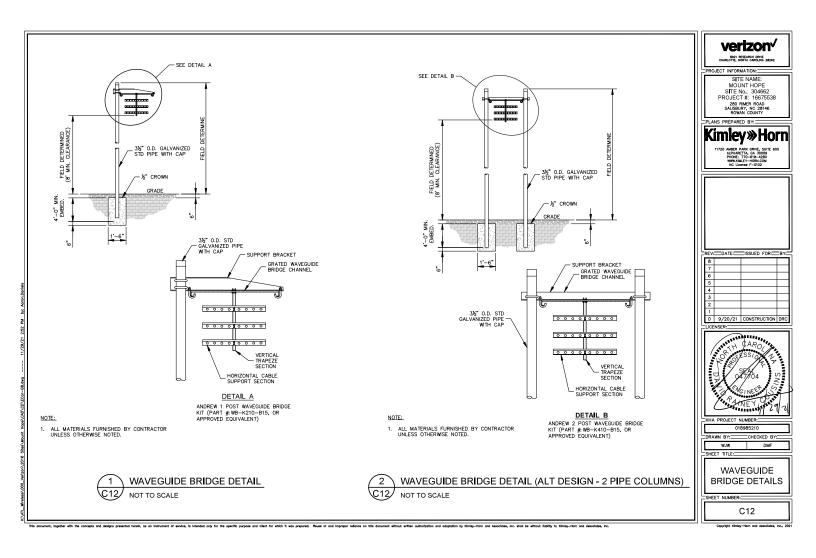
GRADING AND EROSION CONTROL DETAILS

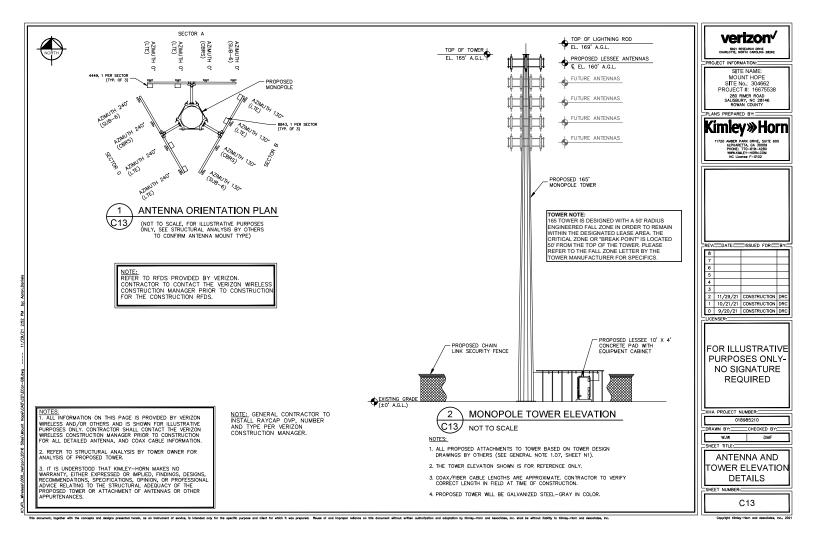
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well, bigother with the concepts and delayer presented herein, as an individual of service, it is in the contract of services. It is indicated only for the specific purpose and died for which it was prepared. However of one improper reference on this document without written authorization and adoption by Diring-Time and Associates, inc., that is a willow to fooling to live the prepared on the contract of the contract which written authorization and adoption by Diring-Time and Associates, inc., that is a willow to fooling the contract which we have a contract with the contract which we have a contract with the contract which we have a contract which will be a contract which we have a contract which will be a contract which we have a contract which which we have a contract which we have a contract which we have









1.00 CODES, STANDARDS, & SPECIFICATIONS

- LOU IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT ALL MATERIALS AND LABOR RELATED DIRECTLY OR NORECTLY TO ALL ELECTRICAL WORK DOCUMENTED IN THESE DRAWINGS SHALL BE PROVIDED AND PERFORMED IN CONFORMANCE WITH ALL CURRENT GOVERNING COORS, STANDARD OF CARE TO INCLUDE THE AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTA), UNDERWITERS LABORATORY (UL), NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA), AMERICAN STANDARDS ASSOCIATION (ASA), NATIONAL RIPE PROTECTION ASSOCIATION (NFPA), AND THE NATIONAL ELECTRICAL CODE (NEC).
- 1.02 MATERIALS SHALL BE NEW AND SHALL CONFORM TO ALL APPLICABLE CURRENT GOVERNING STANDARDS ESTABLISHED FOR EACH ITEM BY ASTM, UL, NEMA, ASA, AND NFPA.
- 1.03 ALL ELECTRICAL WORK SHALL COMPLY WITH ALL APPLICABLE STATE, COUNTY, AND MUNICIPAL CODES AND ORDINANCES, AS WELL AS ALL CURRENT COVERNING STANDARDS AND PRACTICES AS REQUIRED BY NEC, NEMA, ANS, NFPA, UBC, UL, IEEE, AND THE LOCAL UTILITY COMPANY.
- 1.04 ALL ELECTRICAL GROUNDING SHALL COMPLY WITH THE CURRENT EDITION OF THE NEC.
- 1.05 CONTRACTOR SHALL MAINTAIN UL LISTED FIRE RATINGS AT ALL WALL PENETRATIONS.
- 1.06 CONTRACTOR SHALL MAINTAIN A MINIMUM CLEARANCE OF 36" IN FRONT OF ALL ELECTRICAL EQUIPMENT AS REQUIRED BY NEC. MINIMUM CLEARANCE SHALL BE OBSERVED FOR BOTH THE FRONT AND THE REAR OF THE METER H-FRAME RACK AND THE EQUIPMENT H-FRAME RACK.

2.00 GENERAL

- 2.01 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND ASSOCIATED FEES RELATED TO THE PROJECT AND SHALL DELIVER A COPY OF ALL PERMITS TO THE VERIZON REPRESENTATIVE.
- 2.02 CONTRACTOR SHALL SCHEDULE AND SHOULD ATTEND ALL INSPECTIONS REQUIRED BY THE JURISDICTION HAVING AUTHORITY.
- 2.03 CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, ACCESSORIES, ETC., FOR A COMPLETE WORKING ELECTRICAL INSTALLATION.
- 2.04 ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH APPLICABLE BUILDING CODES AND LOCAL ORDINANCES, INSTALLED IN A NEAT MANNER, AND SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER.
- 2.05 CONTRACTOR SHALL PROTECT ADJACENT EQUIPMENT AND FINISHES FROM DAMAGE AND SHALL REPAIR TO ORIGINAL CONDITION ANY ITEMS DAMAGED AS A RESULT OF THE WORK.
- 2.06 CONTRACTOR SHALL REPAIR ANY LANDSCAPING DISTURBED DURING CONSTRUCTION.
- 2.07 IF CONDUIT RUNS HAVE MORE THAN THREE (3) CONSECUTIVE 90 DEGREE TURNS, THE CONTRACTOR SHALL INSTALL PULL BOXES AS REQUIRED BY NEC.
- 2.08 CONTRACTOR SHALL INDICATE THE LOCATION OF ALL CAPPED UNDERGROUND SPARE CONDUIT ON THE RECORD DRAWINGS SUBMITTED TO THE OWNER.
- 2.09 CONTRACTOR SHALL COORDINATE EXACT ROUTING OF CONDUIT WITH OWNER. ALL CONDUIT SHALL BE ROUTED WITHIN 3 FEET, EITHER SIDE, OF PERIMETER FENCING.

3.00 MATERIALS

- 3.01 ALL EQUIPMENT AND MATERIALS SHOWN SHALL BE CONSIDERED NEW UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS.
- 3.02 FINAL CONNECTIONS OF EQUIPMENT SHALL BE PER MANUFACTURER'S APPROVED WRING DIAGRAMS, DETAILS, AND INSTRUCTIONS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT SUPPLIED BY VETRION.
- 3.03 CONTRACTOR SHALL PROVIDE AN UPDATED PANELBOARD DIRECTORY FOR THE PANEL FROM WHICH THE NEW YERIZON EQUIPMENT CIRCUIT WILL BE CONNECTED. CONTRACTOR SHALL SUBMIT UPDATED DIRECTORY IN A PLASTIC COVER TO THE BUILDING OWNER FOR APPROVAL PRIOR TO INSTALLATION.
- 3.04 CONTRACTOR SHALL FIELD DETERMINE ACTUAL CONDUIT ROUTING AND SHALL OBTAIN APPROVAL FROM THE TOWER OWNER OF THE PROPOSED ROUTING PRIOR TO CONDUIT INSTALLATION.
- 3.05 ALL CONDUCTORS SHALL BE COPPER WITH THWN INSULATION AND ALL TERMINATIONS SHALL BE RATED FOR AT LEAST 75 DEGREES CELSIUS.
- 3.06 ALL NEUTRAL CONDUCTORS SHALL HAVE WHITE INSULATION. ALL GROUND CONDUCTORS SHALL HAVE GREEN INSULATION. COLOR TAPE IDENTIFICATION OF THESE CONDUCTORS IS NOT PERMITTED.
- 3.07 CONTRACTOR SHALL SEAL ALL CONDUITS ENTERING AN ENCLOSURE WITH CONDUIT SEALANT THAT IS COMPATIBLE WITH THE INSULATION OF THE CONDUCTORS IN THE CONDUIT.
- 3.08 CONDUIT RUNS SHALL HAVE A CONTINUOUS DOWNWARD SLOPE AWAY FROM ALL EQUIPMENT TO PREVENT WATER INFILTRATION.
- 3.09 ALL CONDUIT SHALL BE SCHEDULE 40 PVC UNLESS NOTED OTHERWISE ON THE PLANS. WHEN CONDUIT IS ROUTED UNDER A ROADWAY, SCHEDULE BO PVC CONDUIT SHALL BE UTILIZED. MANUFACTURED BEND RADII SHALL BE PER NEC.
- 3.10 CONTRACTOR SHALL PROVIDE TWO (2) 200 POUND TEST POLYETHYLENE PULL CORDS IN ALL CONDUITS AND ALL INNERDUCTS. PULL CORDS SHALL BE SECURED AT EACH END OF CONDUIT RVINS. ALL SPARE CONDUIT ENDS SHALL BE CAPPED WITH MANUFACTURED PVC FITTINGS.
- 3.11 CONTRACTOR SHALL BOND EACH METALLIC CONDUIT ENTERING A METALLIC ENCLOSURE WITH A 88 MIN AWG INSULATED COPPER BONDING JUMBER PER NEC. CONTRACTOR SHALL BOND ALL ELECTRICAL EQUIPMENT TO THE H-FRAME RACK ON WHICH EQUIPMENT IS MOUNTED WITH 48 MIN AWG INSULATED COPPER BONDING JUMPERS PER NEC.
- 3.12 CONTRACTOR SHALL IDENTIFY THE END OF ALL SPARE UNDERGROUND CONDUITS AND PROVIDE AND INSTALL 90 DEGREE ELBOWS WITH VERTICAL CONDUIT EXTENSIONS TO EXTEND 3" ABOVE FINISHED CRUSHED AGGREGATE GRADE. CONTRACTOR SHALL TERMINATE CONDUITS WITH MANUFACTURED CONDUIT CAPS THAT THE CONTRACTOR HAS PAINTED ORANGE.
- 3.13 CONTRACTOR SHALL PROVIDE AND INSTALL AN ENGRAVED PHENOLIC PLATE ON THE FRONT OF THE INTEGRATED LOAD CENTER. THE WORDING ON THE PLATE SHALL READ AS FOLLOWS: "MAXIMUM DRAW OF ALL RECTIFIERS AND EQUIPMENT ON THE LOAD CENTER CANNOT EXCEED SOKW. IF ADDITIONAL POWER IS REQUIRED. THE EXISTING SOKW GENERATOR MUST BE REPLACED."

4.00 PRE-CONSTRUCTION COORDINATION

- 4.01 CONTRACTOR SHALL WIST THE SITE PRIOR TO BID AND NOTE EXISTING CONDITIONS THAT MIGHT AFFECT THEIR WORK, ALL SUCH CONDITIONS SHALL BE REPORTED TO THE ENGINEER PRIOR TO BID.
- 4.02 THE CONTRACTOR SHALL PROVIDE A UTILITY LOCATOR AND SHALL VERIFY THE ACTUAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 4.03 CONTRACTOR SHALL VERIFY, PRIOR TO ROUGH-IN, THAT SITE CONDITIONS ALLOW FOR THE PLACEMENT OF THE ELECTRICAL EQUIPMENT AS SHOWN ON THE PLANS.
- 4.04 CONTRACTOR SHALL COORDINATE WITH LOCAL ELECTRICAL UTILITY REGARDING THE EXACT LOCATION OF THE TRANSFORMER, ALL METERING REQUIREMENTS, AND CONDUIT ROUTING BETWEEN TRANSFORMER AND METER.
- 4.05 CONTRACTOR SHALL COORDINATE WITH LOCAL TELCO UTILITY REGARDING THE EXACT LOCATION OF THE TELCO SERVICE ENTRY POINT.
- 4.06 CONTRACTOR SHALL COORDINATE WITH AUTHORITY HAVING JURISDICTION REGARDING LOCAL FROST LINE REQUIREMENTS FOR RACEWAY MATERIAL SELECTION AND INSTALLATION.
- 4.07 CONTRACTOR SHALL PERFORM AN ARC FLASH ANALYSIS AT THE INTEGRATED LOAD CENTER AND PROVIDE ARC FLASH LABEL PER NEC.
- 4.08 ALL CIRCUIT BREAKERS AND EQUIPMENT SHALL HAVE A MINIUUM AIC RATING OF 10,000 AMPS. IF THE RATING OF THE UTILITY TRANSFORMER PROVIDING THE ELECTRICAL SERVICE IS GREATER THAN 75 KM2, THE CONTRACTOR SHALL PERFORM A SHORT CIRCUIT ANALYSIS TO DETERMINE THE REQUIRED AIC RATING FOR THE CIRCUIT BREAKERS AND EQUIPMENT, FRORT TO PURCHASING EQUIPMENT, THE CONTRACTOR SHALL CONTACT THE ELECTRIC UTILITY AND GRANT WING THE MINION THE M



SITE NAME MOUNT HOPE SITE No.: 304662 PROJECT #: 16675538 280 RIMER ROAD SALISBURY, NC 28146 ROWAN COUNTY

PREPARED BY: Kimley»Horn

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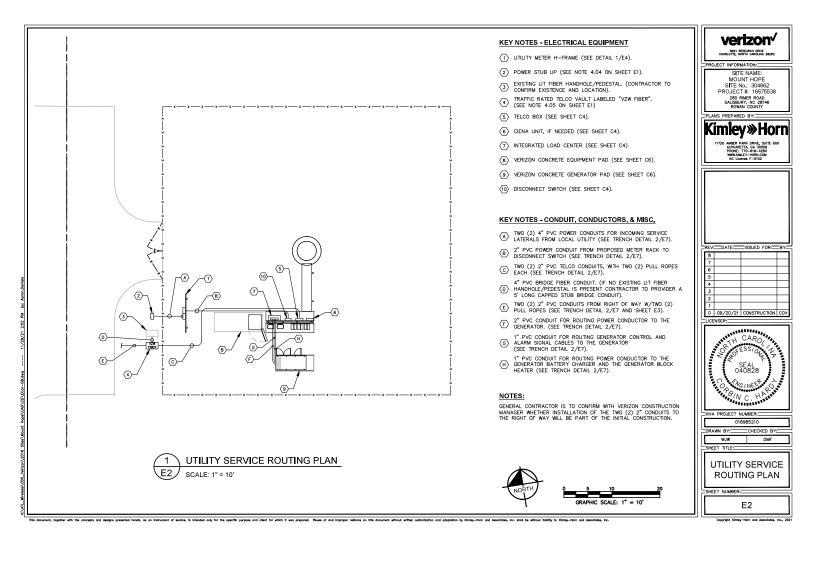
0 09/20/21 CONSTRUCTION CCH

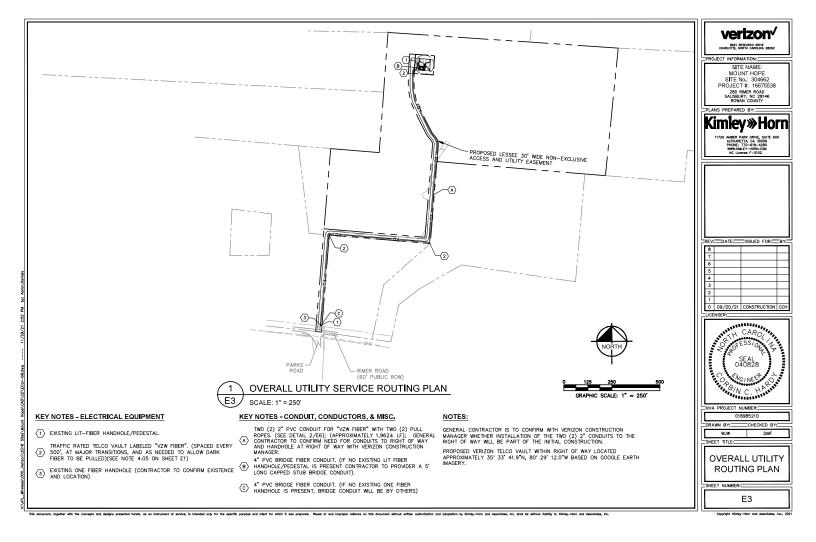


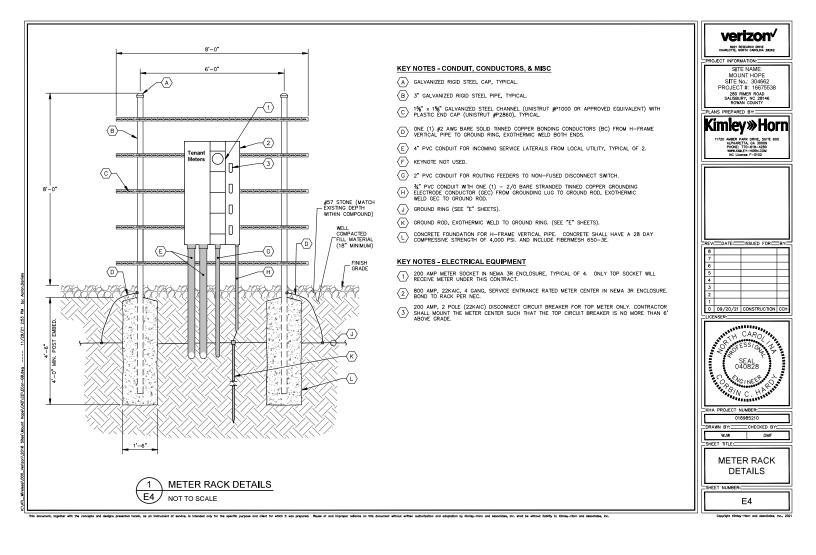
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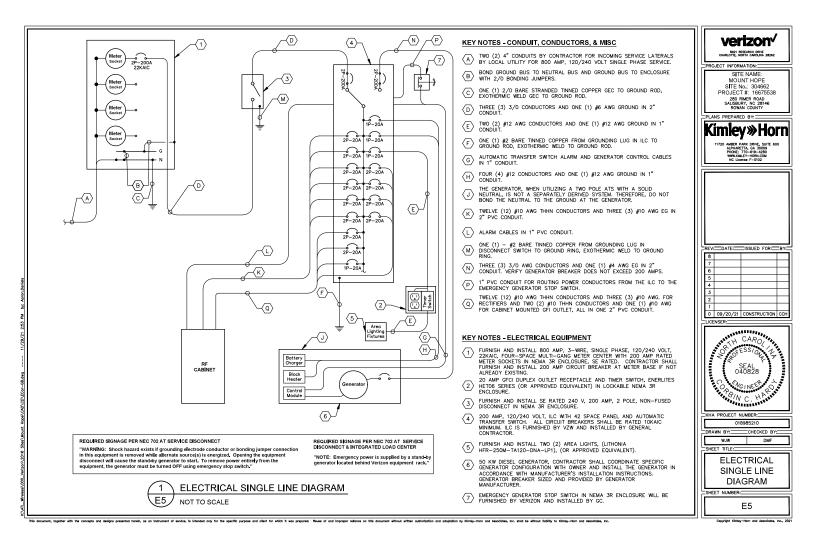
ELECTRICAL NOTES

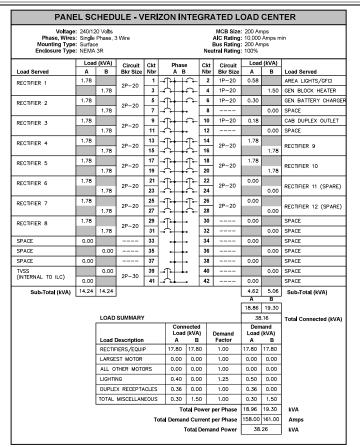
E1











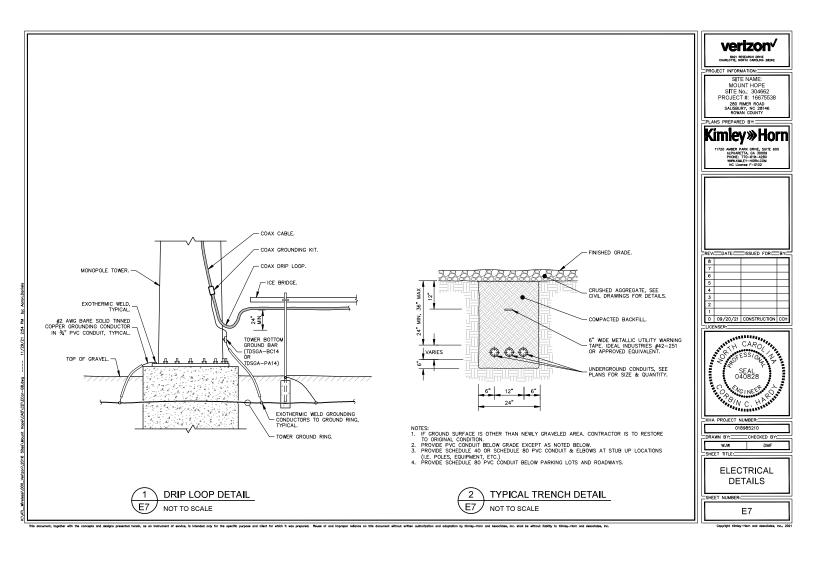
E6

*NOTE: CIRCUIT LOAD AND DEMAND FACTOR PROVIDED BY VERIZON.



NOT TO SCALE

The control of the partic purpose of design presented hands, as an informate of service, is intended only for the specific purpose and client for which it was prepared. Howard of the improper relation on this document without written cultivated and education by fifting-lives and Associates, inc. which is within tability to limitary-term and Associates, inc.



GROUNDING NOTES

- THE GROUND RING SHALL CONSIST OF #2 AWG BARE SOLID TINNED COPPER (STC) CONDUCTOR, UNLESS NOTED OTHERWISE, BURIED AT 30" BELOW FROSHED GRADE (OR BELOW FROST LINE). LOCATE 24" MINIMUM AND 36" MAXIMUM FROM EQUIPMENT AREA AND FROM TOWER FOUNDATION. ALL CONNECTIONS SHALL BE MADE USING A PARALLEL TYPE EXOTHERMIC WELD, UNLESS NOTED OTHERWISE.
- INSTALL GROUND RODS AS SHOWN AND AS REQUIRED. GROUND RODS TO BE COPPER CLAD STEEL, 5/8" DIAMETER AND 10FT IN LENGTH. SPACKONG BETWEEN GROUND RODS SHALL BE 10FT INIMUM AND 15FT MAXIMUM. TOP OF GROUND ROD SHALL BE 10FT MINMUM BELOW GRADE (OR BELOW ROST LINE), BOND TOP OF GROUND ROD TO GROUND WIRE WITH EXOTHERMIC WELD. DD NOT EXOTHERMICALLY WELD ANYTHING TO GROUND ROD EXCEPT GROUND WIRE WHICH PASSES OVER TOP OF GROUND ROD (CLAMPED CONNECTIONS TO GROUND ROD PER TOWER MANUFACTURERS DETAILS ARE ACCEPTABLE).
- EQUIPMENT GROUND RING SHALL HAVE A MINIMUM OF 4 GROUND RODS, INSTALLED AT THE CORNERS OF THE GROUND RING PLUS ADDITIONAL ROOS AS REQUIRED TO COMPLY WITH THE SPACING REQUIREMENTS. TOWER GROUND RING SHALL HAVE A MINIMUM OF GROUND RODS, EXCEPT USE 4 ROOS AT A MONOPOLE TOWER, WHERE SPREAD TOWER FOOTING WOULD PREVENT GROUND RODS. PROM BEING POWEN, INTO SOLE ADJACENT TO TOWER, PROMDE VERTICAL T DIAMETER PLO SLEEPS EMBEDDED IN FOOTING TO ALLOW INSTALLATION OF GROUND RODS.
- EQUIPMENT GROUND RING AND TOWER GROUND RING SHALL BE BONDED TOGETHER WITH TWO #2 STC GROUND LEADS, TYPICALLY ONE ON EACH SIDE OF ICE BRIDGE.
- BOND TOWER TO TOWER GROUND RING AT THREE LOCATIONS WITH #2 STC GROUND LEAD. SELF SUPPORT TOWERS SHALL HAVE EACH LEG BONDED TO GROUND RING, MONOPOLES AND GLYED TOWER SHALL HAVE GROUND LEADS EQUALLY SPACED AROUND TOWER SHALL HAVE GROUND LEADS TO TOP OF BASE PLATES, OR ATTACH TO TOWER USING TOWER MANUFACTURER PROVIDED DETAIL.
- PROVIDE #2 STC RADIALS FROM THE TOWER GROUND RING TO EACH FENCE CORNER POST. RADIALS SHALL HAVE GROUND RODS AS PETHE REQUIRES SPACING. THE GROUND ROD AT THE EAD OF EACH RADIAL SHALL BE 24" MAXIMUM FROM FENCE CORNER POST. CQUIPMENT AREA GROUND RING AND CONNECTING GROUND LEADS [BETWEEN EQUIPMENT AREA AND TOWER GROUND RINGS] MAY BE USED AS PART OF THE RADIAL GOING TO THE FENCE CORNER POST CLOSEST TO THE EQUIPMENT AREA.
- MINIMUM BEND RADIUS FOR #2 AWG GROUND WIRE IS 12", EXCEPT USE 24" FOR TOWER GROUND RINGS AND EQUIPMENT PAD GROUND
- GROUND ALL EXTERIOR EXPOSED METAL OBJECTS. USE TWO HOLE LUGS FOR CONNECTION TO FLAT METAL SURFACES. USE ONLY STAINLESS STEEL HARDWARG ON ALL MECHANICAL CONNECTIONS. CLEAN ALL SURFACES (AND STRIP PAINTED SURFACES) TO BARE BRIGHT METAL PROBLE TO MAKING GROUND CONNECTIONS. APPLY ANTI-OXIDE COMPOUND TO ALL CONNECTIONS. APPLY 2NC RICH PAINT (COLD GALY) TO ALL CONNECTIONS. APPLY 2NC RICH PAINT (COLD GALY) TO ALL CONNECTIONS. APPLY 3NC RICH PAINT (COLD GALY) TO ALL SCHIPPING, ORNOING, CUTTING OR DRILLING.
- ALL GROUNDING CONDUCTORS ABOVE CRADE SHALL BE RUN IN 3/4" REXRELE PVC CONDUIT. CONDUIT SHALL BEGIN WITHIN 3/4" OF ABOVE GROUND CONNECTION POINT, SHALL BEGIN WITHIN 3/4" BELOW GRADE MINIMUM, AND SHALL BE FILLED WITH SEALANT AT ABOVE GROUND CONNECTION POINT. SECURE CONDUIT EVERY 24" ON VERTICAL RUNS AND EVERY 36" ELSEWHERE WITH NON-METALLIC TIES.

- 10A. AT GUYED AND SELF SUPPORT TOWERS MOUNT TDSGA-PA14
 TOWER BOTTOM GROUND BAR ON DEDICATED POST DIRECTLY BELOW
 COAX CABLES COMING OF TOWER. POST TO BE 35. OD
 GALVANIZED SCHEDULE 40 PIPE WITH GALVANIZED PIPE CAP. TOP
 OF POST TO BE 78 "ABOVE GRADE. ENBED POST 30" MINIMUM IN
 12" DIAMETER BY 36" DEEP MINIMUM CONCRETE FOOTING WITH TOP
 OF FOOTING 6" BELOW GRADE. IF TOWER FOUNDATION OBSTRUCTS
 AUGFRED FOOTING, USE POST WITH 10" SQUARE GALVANIZED STEEL
 FLANCE PLATE WELDED TO BOTTOM AND BOLT FLANGE TO TOP OF
 CONCRETE TOWER FOOTING.
- 10B. AT MONOPOLE TOMERS CLAMP TIDSGA—BCI4 TOWER BOTTOM GROUND BAR DIRECTLY TO TOWER. IF RUNNING COAX INSIDE MONOPOLE, CLAMP ONTO BOTTOM LIP OF EATT PORT. IF BANDING COAX TO OUTSIDE OF TOWER, CLAMP ONTO STEEL ANGLE WHICH IS BANDED TO TOWER BOAD TIDSGA—BCI4 TO TOWER GROUND RING WITH TWO #Z STC LEADS LUGGED TO GROUND BAR AND EXOTHERMICALLY WILLDED TO GROUND BAR AND
- AT EQUIPMENT AREA, INSTALL TDSGA-PAM4 EXTERIOR GROUND BAR (THRU-BOLTED STYLE) AT BASE OF (2) INTERIOR H-FRAME POSTS AND AT TOP OF ICE BRIDGE POST WHICH IS NEAREST TO (BUT CLOSER TO TOWER THAN) THE COAX CABLE TERMINATION. MOUNT GROUND BAR TO H-FRAME POSTS AT 6" ABOVE GRAVEL AND TO ICE BRIDGE POST AT 6FT ABOVE GRAVEL
- ALL ICE BRIDGE SECTIONS ARE TO BE JUMERED TOGETHER WITH #2 WIRE, EITHER BARE TINNED COPPER OR GREEN INSULATED STRANGED. ICE BRIDGE SHALL BE GROUNDED AT EACH END WITH #2 STC WIRE LUGGED TO ICE BRIDGE AND EXOTHERMICALLY WELDED TO UPPER PROTING OF NEARST ICE BRIDGE POST. ICE BRIDGE SECTIONS ABOVE H-FRAME SHALL BE GRONDED TO EACH OTHER WISHEST AT EACH END THA ASSEMBLY WILL BE CONSIDERED AS A SHIGLE ICE BRIDGE SECTION FOR GROUNDING PURPOSES.
- 13. BOND EACH ICE BRODE POST, H-FRAME POST OR DEDICATED GROUNDING POST TO BURBLID GROUNDING SYSTEM WHY AS TO LEAD EXOTHERMICALLY WELDED TO POST BELOW TOP OF GRAVEL AND EXOTHERMICALLY WELDED TO GROUND RING. EACH POST TO HAVE SEPARATE GROUND LEAD DIRECTLY TO GROUND RING DO NOT DAISY CHAIN POSTS TOGETHER.
- NUI JAISY CHAIN POSTS TOGETHER.

 14. BOND EACH RE CABINET TO EQUIPMENT GROUND RING WITH #2 AWD TINNED SOULD BARE COPPER CONDUCTOR LUGGED TO CABINET BODY AND EXOTHERMICALLY WELDED TO GROUND RING. LUG TO CABINET BODY LISING LOCATION AT WHICH STUDS ON CABINET BOTY LISING LOCATION AT WHICH STUDS ON CABINET INTERNAL GROUND BAR. RUN CONDUIT AND CONDUCTOR ACROSS INTERNAL GROUND BAR. RUN CONDUIT AND CONDUCTOR ACROSS CABINET AND THEM BEND GROUND WIRE SHARPLY), ACROSS OF CABINET AND THEM BEND GROUND WIRE SHARPLY), ACROSS OCONCRETE PAD BELOW CABLE LADDER, THEN DOWN INTO GRAVEL AREA.
- 15. BOND EACH BATTERY CABINET TO GROUND RING WITH #2 AWG INNED SOLID BARE COPPER CONDUCTOR LUGGED TO CABINET BODY AND EXCHTERMICALLY WELDED TO GOKUND RING. OR GOKUND LEAD IN FLEX CONDUIT ALONG BACK OF RBA72 CABINET, ACROSS CONCRETE FAD BELOW CABLE LADDER, THEN DOWN INTO GRANG AREA. ORNECT INDIVIDE LIG TO BACK OF CABINET AT FACTORY PROVIDED GROUNDING STUDS.
- 16. BOND GENERATOR TO GROUND RING WITH #2 STC AT TWO DIAGONALLY OPPOSITE LOCATIONS BY DRILLING AND BOLTING TWO HOLE LUG TO FINS ON GENERATOR BASE STRUCTURE. GROUND LEADS SHOULD TAKE SHORTEST PATH ACROSS CONCRETE PAD TO GRAVEL AREA, THEN CONTINUE TO GROUND RING.

- 17. WHERE PROPANE TANK IS INSTALLED TO FUEL GENERATOR, BOND PROPANE TANK TO GROUND RING WITH A SINGLE #2 STC CLAMPED TO FILLER PREFER FOR PROPARE TANK AND EXCHEMINALLY MEDED AND TAKE SHORTEST PATH ACROSS CONCRETE FAD TO GRAVEL AREA, THEN CONTINUE TO GROUND RING, IP PROPANE TANK FUEL LINE IS METALLIC AND CROSSES COUPMENT GROUND RING, BOND FUEL LINE TO EQUIPMENT GROUND RING, BOND FUEL LINE TO EQUIPMENT GROUND RING HERE THE TWO LINES CROSS WITH A SINGLE #2 STC CLAMPED TO FUEL LINE AND EXCHEMINALLY MEDED TO GROUND RING HERE THE TWO LINES
- BOND GPS ANTENNA and GPS ANTENNA MOUNT TO TSDGA GROUND BAR AT BOTTOM OF H-FRAME POST WITH #2 GREEN INSULATED STRANDED GROUND WIRE.
- PROVIDE TWO GROUND RODS OUTSIDE GATES OF COMPOUND.
 DISTANCE BETWEEN GROUND RODS SHALL MATCH WIDTH THE GATE
 LONGEST INDIVIDUAL GATE LEAF BOND CATE POSTS TOGETHER WITH
 #Z STC LEAD WHICH RUNS PAST AND CONNECTS TO GROUND RODS
 OUTSIDE GATES.
- BOND EACH GATE POST WITH #2 STC TO NEAREST PORTION OF GROUNDING SYSTEM INSIDE COMPOUND.
- 21. BOND EACH GATE TO GATE POST WITH FLEXIBLE INSULATED OR BRAIDED #4/0 COPPER STRAP. EXOTHERMICALLY WELD STRAP TO BOTH GATE AND GATE POSTS.
- 22. ANY METAL FENCE POST WITHIN 6FT OF A GROUNDED METAL OBJECT SHALL BE BONDED TO THE NEAREST GROUND RING, ANY METAL FENCE WITHIN 6FT OF A GROUND RING SHALL HAVE THE LINE POSTS BONDED TO THE GROUND RING AT JOFT MAXIMUM INTERVALS AS MEASURED ALONG THE LENGTH OF THE FENCE.
- 23. WHERE GROUND BASED RRU'S, RAYCAP OVE'S OR DIFFERENCE.

 INSTALLED AT THE EQUIPMENT AREA, BOND EACH COMPONENT TO NEAREST TOSCH GROUND BAR BELOW THE COMPONENT WITH 42 GREEN INSUATED STRANGED GROUND MRKE, SINGLE LUG OR RING THPE COMPONENT ON TO SUITABLE FOR CONNECTION TO GROUNDING STUD ON EACH COMPONENT.
- 24. NOTIFY VZW CM. TO INSPECT GROUND RING BEFORE BACKFILLING. CONTRACTOR SHALL HIRE A 3RD PARTY TO PERFORM AN IEEE FALL OF POTENTIAL METHOD GROUND IS TEST, MAXIMUM ALLOWABLE RESISTANCE TO GROUND IS 5 DIMS. PROVIDE ADDITIONAL GROUND SYSTEM COMPONENTS AS REQUIRED TO ACHIEVE THIS VALUE.
- REFER TO TOWER GROUNDING DIAGRAM AND NOTES FOR GROUND SYSTEM REQUIREMENTS ON THE TOWER.
- GROUNDING OF ALL ELECTRICAL EQUIPMENT SHALL BE AS PER NEC, MUNICIPAL AND UTILITY COMPANY REQUIREMENTS.

verizon/ 8021 RESEARCH DRIVE

SITE NAME MOUNT HOPE SITE No.: 304662 PROJECT #: 16675538 280 RIMER ROAD SALISBURY, NC 28146 ROWAN COUNTY

Kimley »Horn

11720 AMBER PARK DRIVE, SUITE 60 ALPHARETTA, GA 30009 PHONE: 770-619-4280 WWW.KIMLEY-HORN.COM

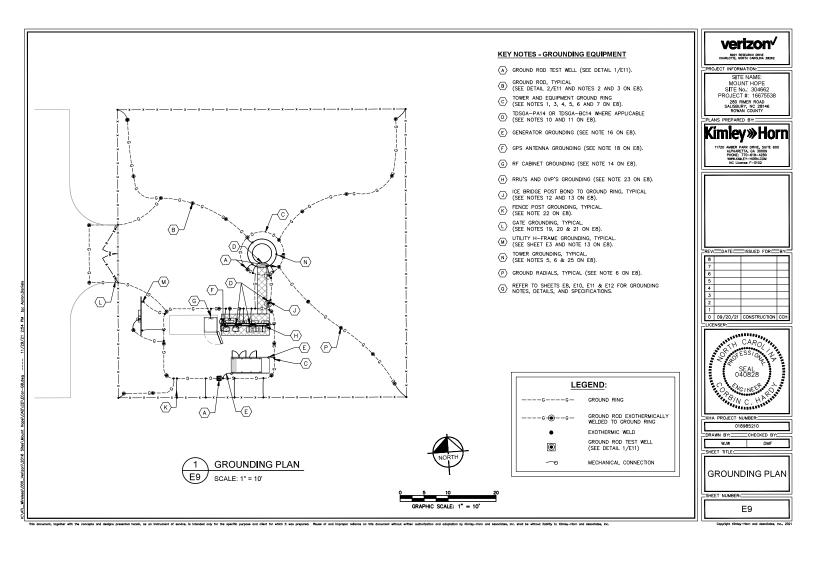


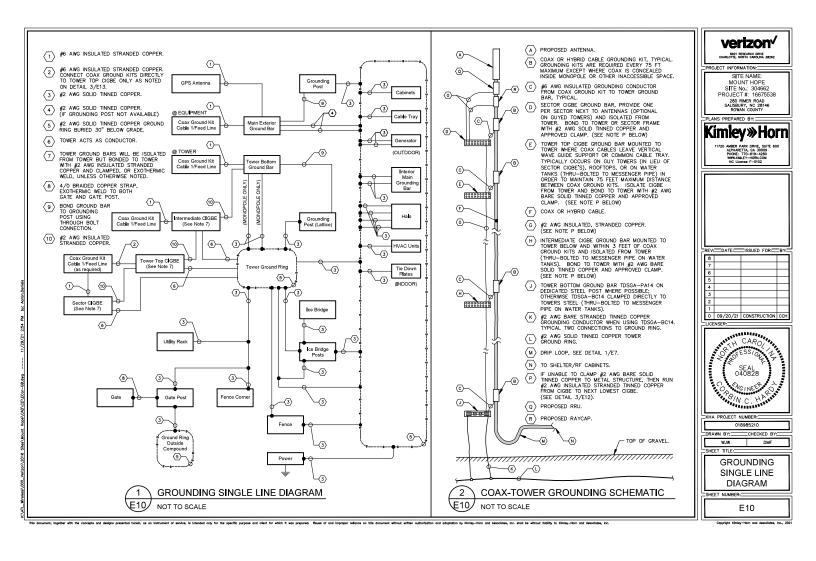


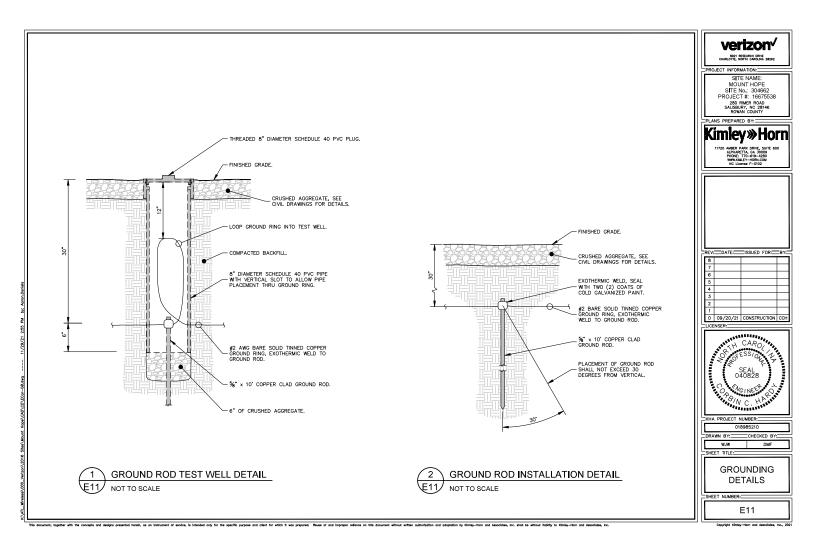
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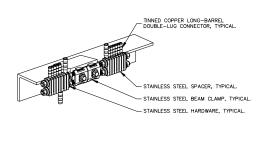
GROUNDING NOTES

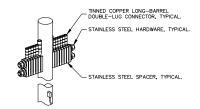
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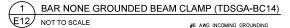


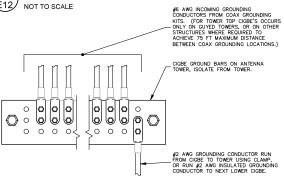




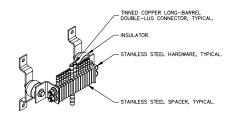












ANTENNA GROUND WIRE INSTALLATION DETAIL

Œ12/ NOT TO SCALE

NOTES:

ALL CIGBE GROUND BARS ON TOWER ARE TO BE ERICO TDSGA. TYPICALLY USE TDSGA-WB17 ISOLATED FROM UNISTRUT BRACKET.

IF CIGBE CANNOT BE CONNECTED TO TOWER WITH #2 AWG GROUNDING CONDUCTOR, VIA CLAMP OR EXOTHERMIC WELD, THEN RUN #2 AWG BLACK GROUND LEAD FROM GIGBE DOWN TO NEXT LOWER CIGBE. SECURE GROUND LEAD WITH NON-METALIC TIES AT SAME SPACING AS COAX SUPPORTS.





SITE NAME:
MOUNT HOPE
SITE No.: 304662
PROJECT #: 16675538
280 RIMER ROAD
SAUSBURY, NC 28146
ROWAN COUNTY

Kimley» Horn

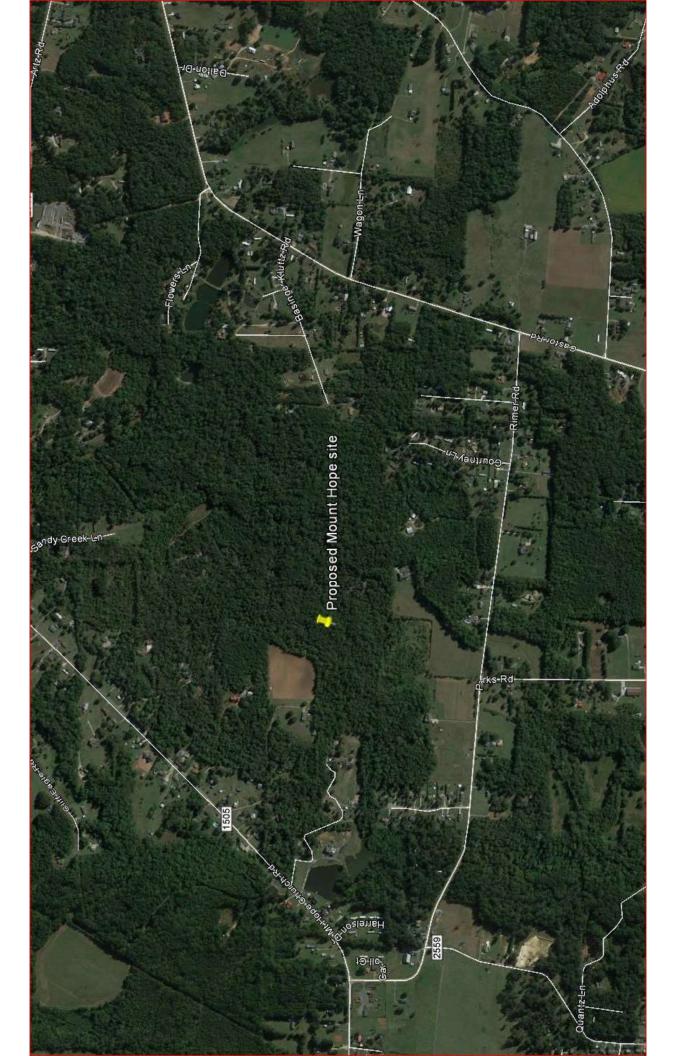
11720 AMBER PARK DRVE, SUITE 600
ALPHARETTA, GA, 30009
PHONE: 770-619-4280
WW.KHUEY-HORLCOM

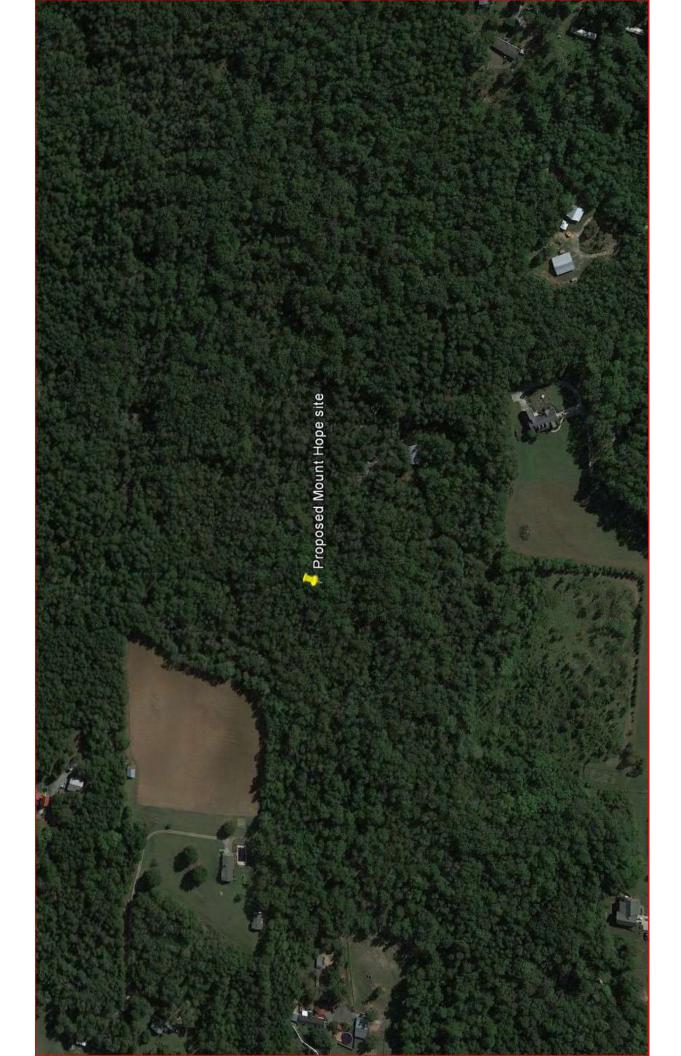


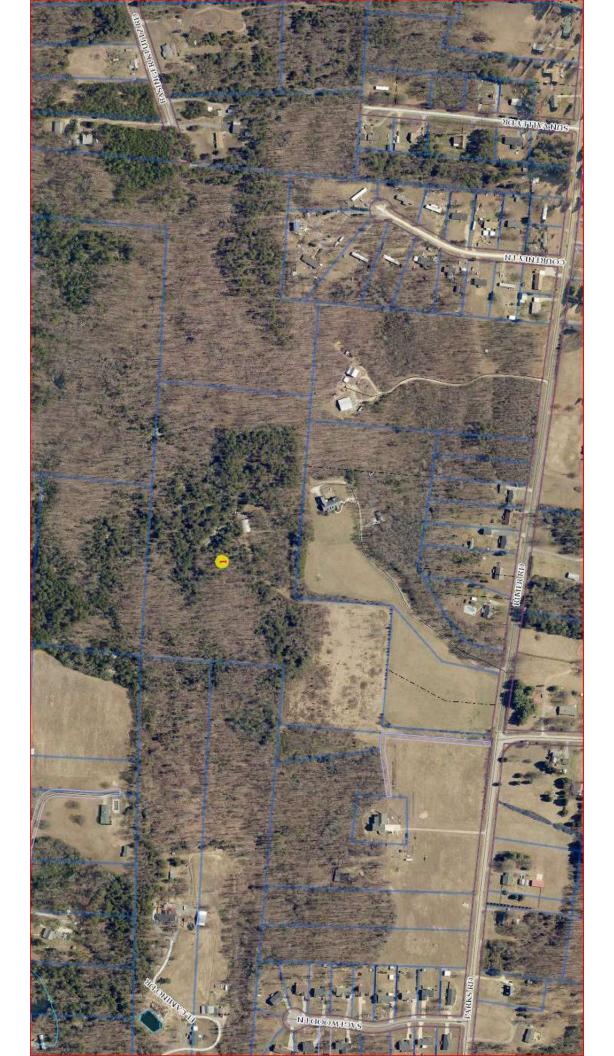
GROUNDING **DETAILS**

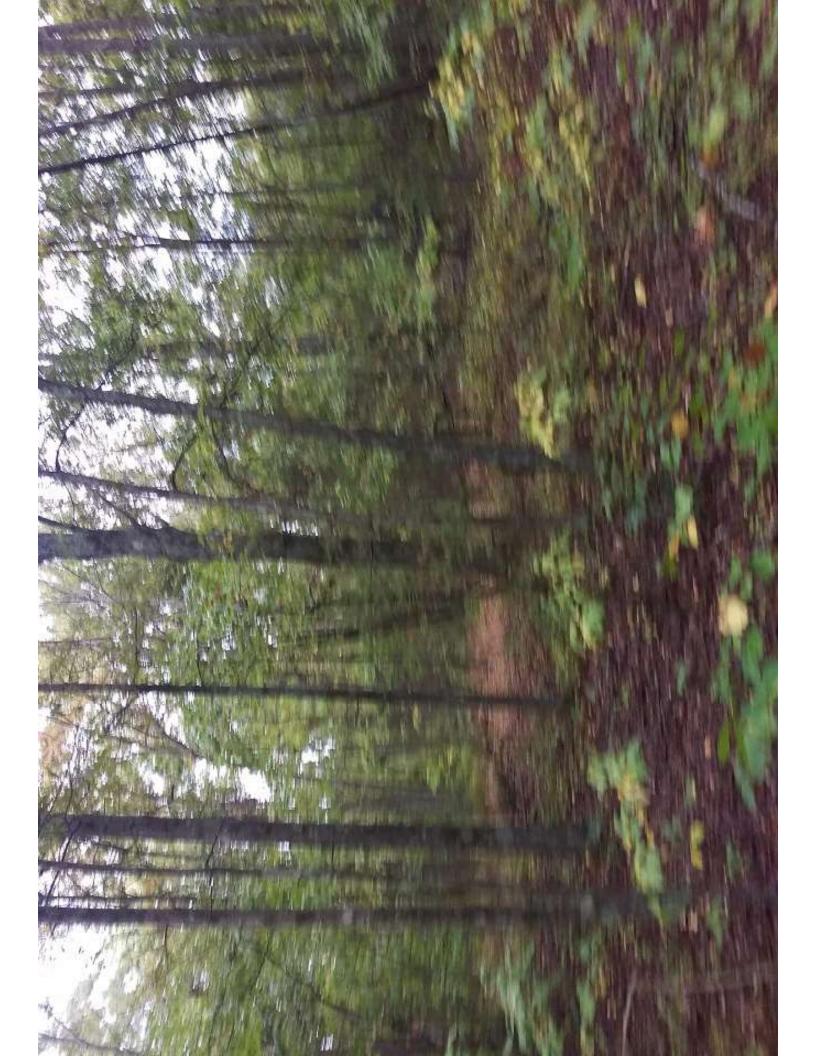
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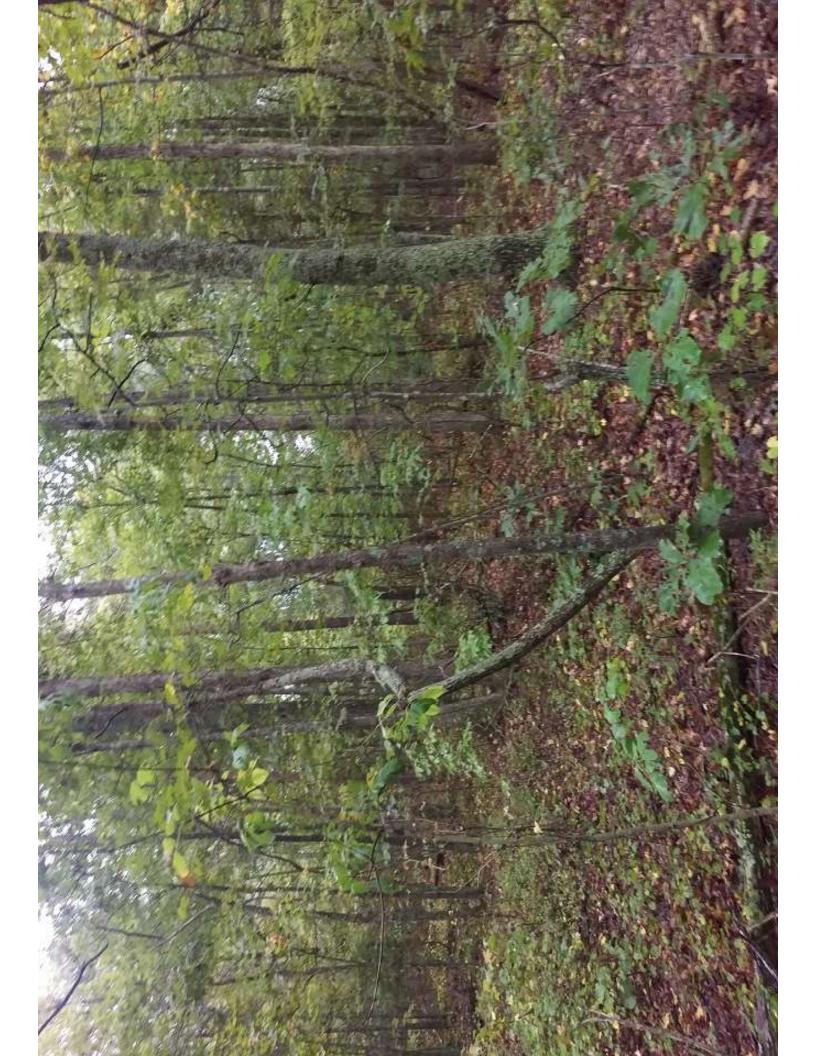
ment, ligation with this concepts and destigan generated havels, on indicated of enrich, it intended only for the sportific purpose and client for which it was prepared. Resear of and improper reference on this document without withon cultivariation and adoptation by distript-time and Association, inc. and it is without facility to limits-time and Associations, inc.

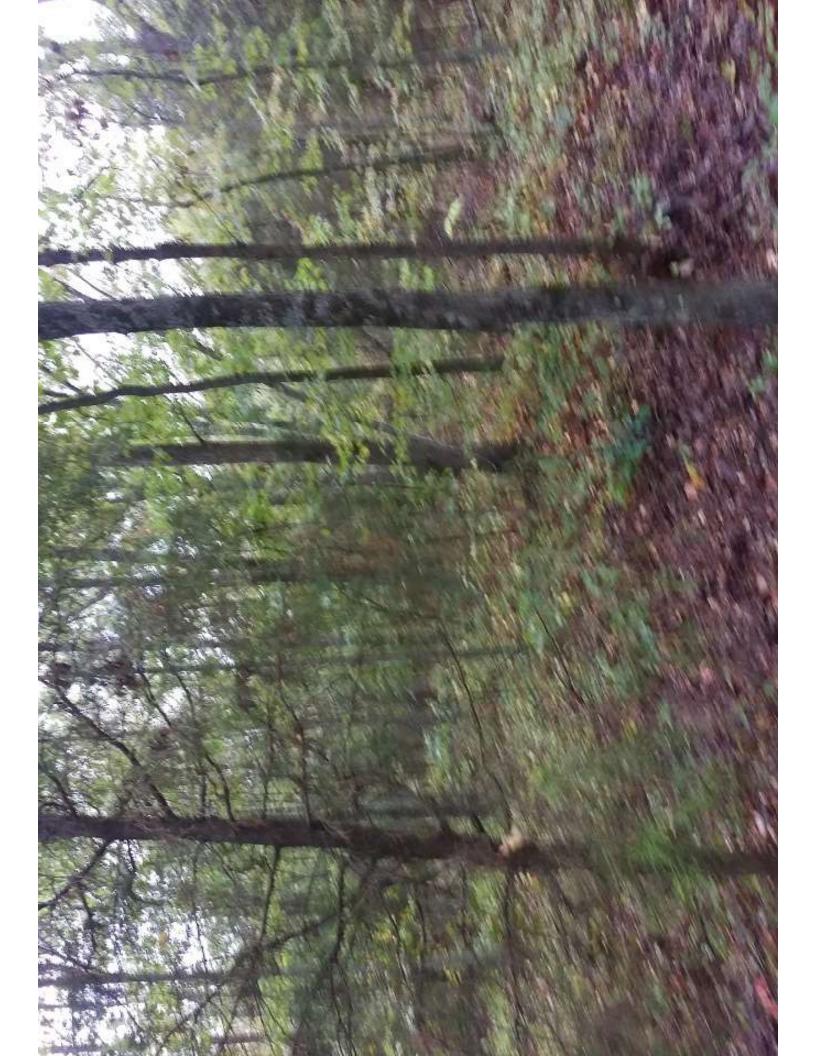


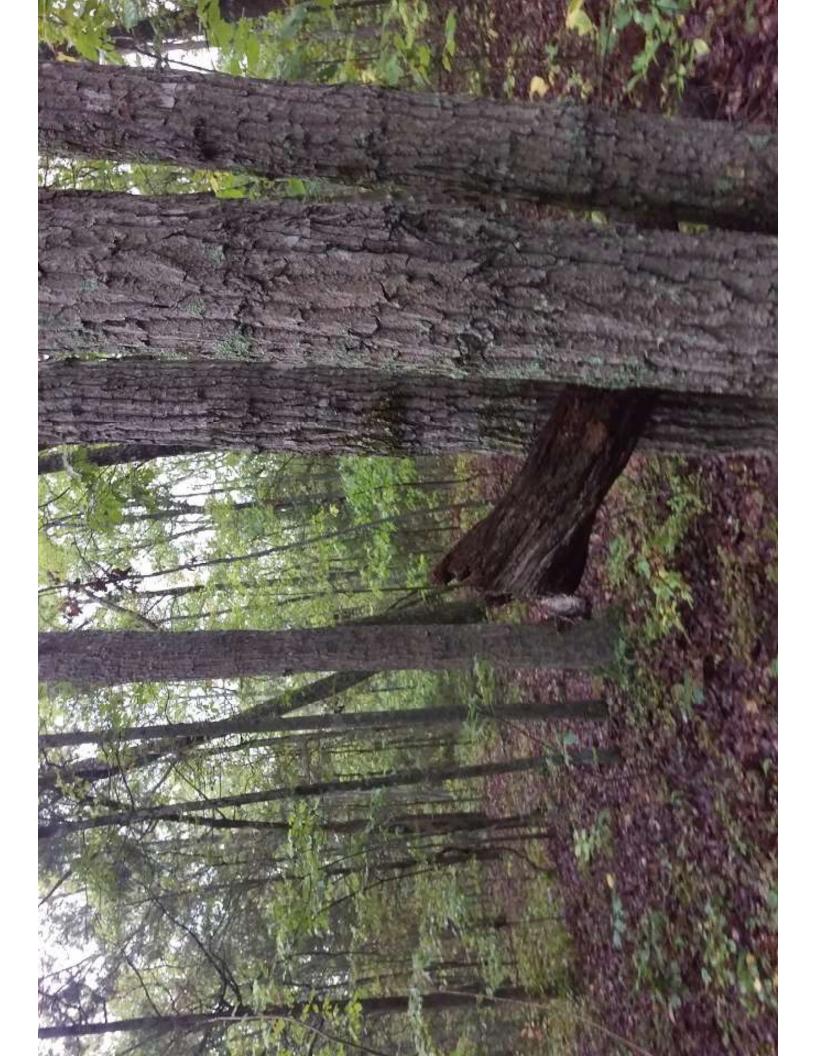


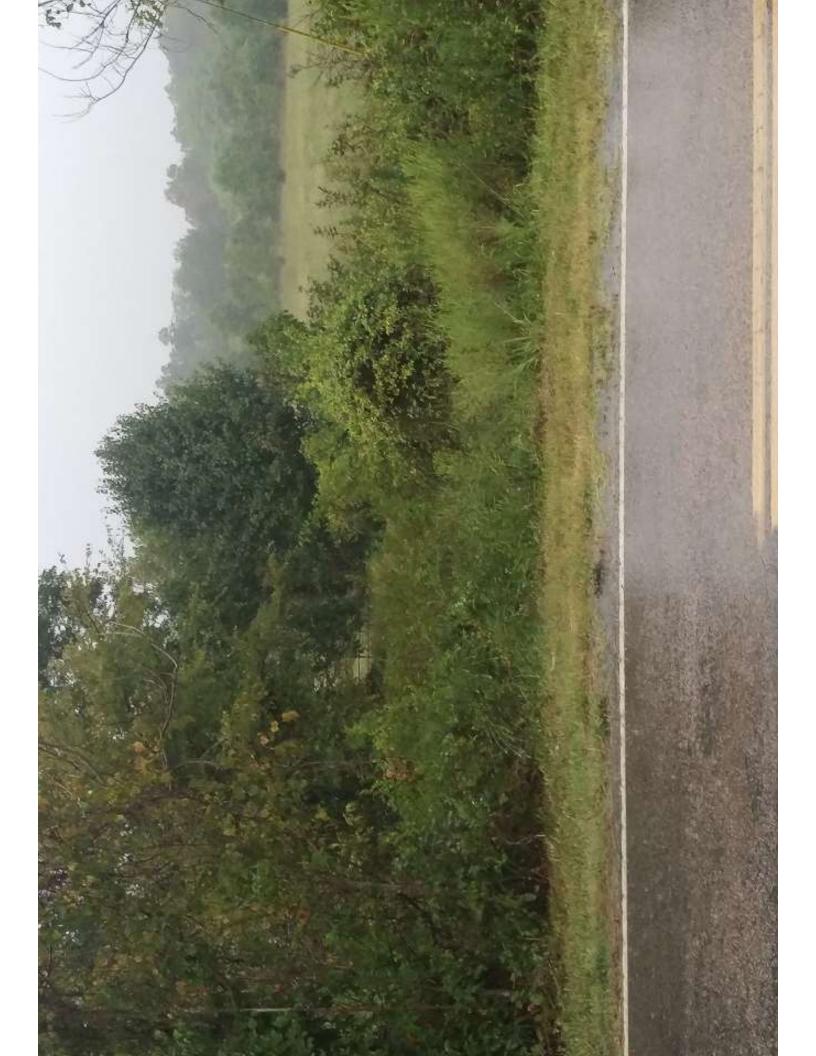














September 22, 2021

Shane Stewart, Assistant Planning Director Rowan County Planning & Development 402 N. Main Street, Suite 204 Salisbury, North Carolina 28144

Subject: Mount Hope Inability to Collocate and Facility Siting Certification

Dear Mr. Stewart,

Per the Rowan County Zoning Ordinance Sections 21-60(3)(a.1-2):

- a. New wireless support structures. For all new wireless support structures, the county encourages the applicant to investigate preferred sites and those locations that minimize the impact to the North Carolina Scenic Byway corridor. In the event the new wireless support structure cannot be located at a preferred site, evidence that the applicant has investigated the possibilities for co-location on an existing wireless support structure shall be presented with its application. At a minimum the evidence should contain:
 - Copies and responses of certified letters sent to owners/operators of all existing towers and structures with telecommunications facilities within the search ring of the proposed site, requesting the following information:
 - i. Height above ground and sea level.
 - ii. Existing tenants, including any telecommunication service providers and planned tower use.
 - iii. Whether the existing site could accommodate the addition of their wireless facilities.
 - iv. If the addition of their wireless facilities cannot be accommodated, an assessment of whether the existing site could be upgraded and a general description of the means and projected costs of shared use of the tower
 - Inventory of all preferred sites, and alternative tower structures
 considered within the search ring, including specific analysis of
 each preferred site and alternative tower structure outlining
 positive and negative aspects for utilizing.



Please let this letter serve as certification that there are no preferred sites, existing towers, or alternative buildings or structures upon which to collocate within the search area in which Verizon Wireless' proposed equipment must be located in order to meet the network objective. Therefore, collocation is not possible and construction of the new "Mount Hope" communication tower is necessary.

.

Sincerely,

John Yeag**l**ey

Site Acquisitions Manager Chase Real Estate Services



APPLICATION FOR ZONING APPROVAL BY CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS FOR THE CONSTRUCTION OF A WIRELESS TELECOMMUNICATION TOWER AND RELATED APPURTENANCES

MOUNT HOPE SITE

FUTURE COLLOCATION CERTIFICATION

Cellco Partnership d/b/a Verizon Wireless ("Verizon Wireless") agrees to comply with Section 21-60(3)(a)(6) of the Rowan County Zoning Ordinance (the "Ordinance"), and certifies that the proposed "Mount Hope" telecommunication tower located at 280 Rimer Road, Rowan County, North Carolina will be designed and constructed to accommodate at least five total users.

CELLCO PARTNERSHIP

D/B/A

VERIZON WIRELESS

Printed Name: Michael Haven

Title: Manager - RE/Regulatory

```
***********
                             Federal Airways & Airspace
                 *
                          Summary Report: New Construction
                                 Antenna Structure
***********
                 Airspace User: Your Name
                 File: MOUNTHOPE
                 Location: Faith, NC
                 Latitude: 35°-33'-55.5" Longitude:
80°-29'-05.8"
                 SITE ELEVATION AMSL.....877 ft.
                 STRUCTURE HEIGHT.....169 ft.
                 OVERALL HEIGHT AMSL.....1046 ft.
    NOTICE CRITERIA
      FAR 77.9(a): NNR (DNE 200 ft AGL)
      FAR 77.9(b): NNR (DNE Notice Slope)
      FAR 77.9(c): NNR (Not a Traverse Way)
      FAR 77.9: NNR FAR 77.9 IFR Straight-In Notice Criteria
for RUQ
      FAR 77.9: NNR (No Expected TERPS® impact JQF)
      FAR 77.9(d): NNR (Off Airport Construction)
      NR = Notice Required
      NNR = Notice Not Required
      PNR = Possible Notice Required (depends upon actual IFR
```

procedure)

For new construction review Air Navigation

Facilities at bottom

of this report.

Notice to the FAA is not required at the analyzed location and height for

slope, height or Straight-In procedures. Please review the 'Air Navigation'

section for notice requirements for offset IFR procedures and EMI.

OBSTRUCTION STANDARDS

FAR 77.17(a)(1): DNE 499 ft AGL

FAR 77.17(a)(2): DNE - Airport Surface

FAR 77.19(a): DNE - Horizontal Surface FAR 77.19(b): DNE - Conical Surface FAR 77.19(c): DNE - Primary Surface FAR 77.19(d): DNE - Approach Surface FAR 77.19(e): DNE - Transitional Surface VFR TRAFFIC PATTERN AIRSPACE FOR: RUQ: ROWAN COUNTY Type: A RD: 28931.11 RE: 769.5 FAR 77.17(a)(1): DNE FAR 77.17(a)(2): DNE - Height No Greater Than 200 feet AGL. VFR Horizontal Surface: DNE VFR Conical Surface: DNE VFR Approach Slope: VFR Transitional Slope: DNE VFR TRAFFIC PATTERN AIRSPACE FOR: JQF: CONCORD RGNL Type: A RD: 89950.65 RE: 704.7 FAR 77.17(a)(1): DNE FAR 77.17(a)(2): DNE - Greater Than 5.99 NM. VFR Horizontal Surface: DNE VFR Conical Surface: DNE VFR Approach Slope: DNE VFR Transitional Slope: DNE TERPS DEPARTURE PROCEDURE (FAA Order 8260.3, Volume 4) FAR 77.17(a)(3) Departure Surface Criteria (40:1) DNE Departure Surface MINIMUM OBSTACLE CLEARANCE ALTITUDE (MOCA) FAR 77.17(a)(4) MOCA Altitude Enroute Criteria The Maximum Height Permitted is 1700 ft AMSL PRIVATE LANDING FACILITIES FACIL BEARING RANGE DELTA ARP FAA IDENT TYP NAME To FACIL IN NM ELEVATION IFR _____ 41NC AIR SLOOP 214.64 3.19 +252 Possible Impact to Private Landing Facility Exceeds 219 ft VFR Transitional Surface (N/A Private Airport). 227.72 4.84 6NC2 AIR WILHELM +296 No Impact to VFr Transitional Surface. Below surface height of 384 ft above ARP.

255.2 5.71

02NC HEL RACE CITY

+237

No Impact to Private Landing Facility Structure is beyond notice limit by 29695 feet.

AIR NAVIGATION ELECTRONIC FACILITIES

	FAC		ST			DIST	DELTA			
GRND	APCH IDNT	TYPE	AT	FREQ	VECTOR	(ft)	ELEVA	ST	LOCA	ATION
ANGLE	BEAR									
	RUQ	LOCALIZER	I	109.9	336.68	28673	+281	NC	RWY	20
ROWAN	COUN	.56 202)							
	RUQ	LOM	I		358.72	61057	+346	NC	RWY	20
ROWAN	COUN	.32								
	RU	NDB	I	27	358.7	61067	+347	NC		
ROVDY			33							
	CLT	RADAR	ON		227.04	188049	+245	NC		
CHARLO	OTTE/DO	OUGLAS .	07							
	CLT	VOR/DME	I	115.0	225.41	194966	+314	NC		
CHARLO	OTTE		09							
	QRM	RADAR ARSR	Y	1277.4	274.45	224605	+77	NC		
Maider	า		02							

CFR Title 47, \$1.30000-\$1.30004

 $\,$ AM STUDY NOT REQUIRED: Structure is not near a FCC licensed AM station.

Movement Method Proof as specified in $\S73.151(c)$ is not required.

Please review 'AM Station Report' for details.

Nearest AM Station: WRNA @ 9456 meters.

Airspace® Summary Version 17.1.429

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02-23-2017 15:12:15

FCC MARKET NAME	FCC Radio Service Code	FCC Market Number	FCC Channel Block
Charlotte-Gastonia-Rock Hill, NC-SC	AW	BEA023	В
Southeast	AW	REA002	F
North Carolina 15 - Cabarrus	CL	CMA579	В
North Carolina 15 - Cabarrus	CL	CMA579	В
North Carolina 15 - Cabarrus	CL	CMA579	Α
Charlotte-Gastonia, NC	CW	BTA074	С
Charlotte-Gastonia, NC	CW	BTA074	С
Salisbury, NC	PM	PEA208	A1
Salisbury, NC	PM	PEA208	A2
Salisbury, NC	PM	PEA208	A3
Salisbury, NC	PM	PEA208	A4
Salisbury, NC	PM	PEA208	A5
Salisbury, NC	PM	PEA208	B1
Salisbury, NC	PM	PEA208	B2
Salisbury, NC	PM	PEA208	B3
Salisbury, NC	PM	PEA208	B4
Salisbury, NC	PM	PEA208	B5
Charlotte-Gastonia, NC	UU	BTA074	L1
Charlotte-Gastonia, NC	UU	BTA074	L2
Salisbury, NC	UU	PEA208	M1
Salisbury, NC	UU	PEA208	M10
Salisbury, NC	UU	PEA208	M2
Salisbury, NC	UU	PEA208	M3
Salisbury, NC	UU	PEA208	M4
Salisbury, NC	UU	PEA208	M5
Salisbury, NC	UU	PEA208	M6
Salisbury, NC	UU	PEA208	M7
Salisbury, NC	UU	PEA208	M8
Salisbury, NC	UU	PEA208	M9
Southeast	WU	REA002	С

WQGA918 Cellco Partnership 0003290673 Nov 29, 2021 NC WQGA716 Cellco Partnership 0003290673 Nov 29, 2021 NC KNKN868 Alltel Corporation 0002942159 Oct 1, 2030 NC NC KNKN952 Alltel Corporation 0002942159 Oct 1, 2030 NC NC KNKQ443 Cellco Partnership 0003290673 Nov 6, 2027 NC NC WQEM932 Cellco Partnership 0003290673 May 13, 2025 NC NC WRNG698 Cellco Partnership 0003290673 Jul 23, 2036 NC NC WRNG699 Cellco Partnership 0003290673 Jul 23, 2036 NC NC WRNG700 Cellco Partnership 0003290673 Jul 23, 2036 NC NC WRNG701 Cellco Partnership 0003290673 Jul 23, 2036 NC NC WRNG702 Cellco Partnership 0003290673 Jul 23, 2036 NC NC WRNG703 Cellco Partnership 0003290673 Jul 23, 2036	FCC Call Sign	Licensee Name	FRN	Expired Date	State of Market	County State
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County Name	Frequencies(1)	Frequencies(2)	Frequencies(3)	Frequencies(4)
Rowan	1720-1730 / 2120-2130	0-0 / 0-0	0-0 / 0-0	0-0 / 0-0
Rowan	1745-1755 / 2145-2155	0-0 / 0-0	0-0 / 0-0	0-0 / 0-0
Rowan	835-845 / 880-890	846.5-849 / 891.5-894	0-0 / 0-0	0-0 / 0-0
Rowan	835-845 / 880-890	846.5-849 / 891.5-894	0-0 / 0-0	0-0 / 0-0
Rowan	824-835 / 869-880	845-846.5 / 890-891.5	0-0 / 0-0	0-0 / 0-0
Rowan	1900-1905 / 1980-1985	0-0 / 0-0	0-0 / 0-0	0-0 / 0-0
Rowan	1905-1910 / 1985-1990	0-0 / 0-0	0-0 / 0-0	0-0 / 0-0
Rowan	3700-3720 / 0-0	0-0 / 0-0	0-0 / 0-0	0-0 / 0-0
Rowan	3720-3740 / 0-0	0-0 / 0-0	0-0 / 0-0	0-0 / 0-0
Rowan	3740-3760 / 0-0	0-0 / 0-0	0-0 / 0-0	0-0 / 0-0
Rowan	3760-3780 / 0-0	0-0 / 0-0	0-0 / 0-0	0-0 / 0-0
Rowan	3780-3800 / 0-0	0-0 / 0-0	0-0 / 0-0	0-0 / 0-0
Rowan	3800-3820 / 0-0	0-0 / 0-0	0-0 / 0-0	0-0 / 0-0
Rowan	3820-3840 / 0-0	0-0 / 0-0	0-0 / 0-0	0-0 / 0-0
Rowan	3840-3860 / 0-0	0-0 / 0-0	0-0 / 0-0	0-0 / 0-0
Rowan	3860-3880 / 0-0	0-0 / 0-0	0-0 / 0-0	0-0 / 0-0
Rowan	3880-3900 / 0-0	0-0 / 0-0	0-0 / 0-0	0-0 / 0-0
Rowan	27500-27925 / 0-0	0-0 / 0-0	0-0 / 0-0	0-0 / 0-0
Rowan	27925-28350 / 0-0	0-0 / 0-0	0-0 / 0-0	0-0 / 0-0
Rowan	37600-37700 / 0-0	0-0 / 0-0	0-0 / 0-0	0-0 / 0-0
Rowan	38500-38600 / 0-0	0-0 / 0-0	0-0 / 0-0	0-0 / 0-0
Rowan	37700-37800 / 0-0	0-0 / 0-0	0-0 / 0-0	0-0 / 0-0
Rowan	37800-37900 / 0-0	0-0 / 0-0	0-0 / 0-0	0-0 / 0-0
Rowan	37900-38000 / 0-0	0-0 / 0-0	0-0 / 0-0	0-0 / 0-0
Rowan	38000-38100 / 0-0	0-0 / 0-0	0-0 / 0-0	0-0 / 0-0
Rowan	38100-38200 / 0-0	0-0 / 0-0	0-0 / 0-0	0-0 / 0-0
Rowan	38200-38300 / 0-0	0-0 / 0-0	0-0 / 0-0	0-0 / 0-0
Rowan	38300-38400 / 0-0	0-0 / 0-0	0-0 / 0-0	0-0 / 0-0
Rowan	38400-38500 / 0-0	0-0 / 0-0	0-0 / 0-0	0-0 / 0-0
Rowan	746-757 / 776-787	0-0 / 0-0	0-0 / 0-0	0-0 / 0-0





Rowan County Planning & Development ATTN: Ed Muire, Planning & Development Director 402 N. Main Street Salisbury, NC 28144

RE: Verizon Wireless Non-Interference Statement for Mount Hope

Dear Mr. Muire:

Verizon Wireless operates a Wireless Network authorized by the Federal Communications Commission (FCC) to provide wireless communication throughout the nation, including Rowan County, North Carolina. Verizon Wireless' operation and network are licensed and regulated by the FCC. The FCC rules governing the operation of wireless telecommunications facilities are designed to protect co-channel and adjacent licenses against harmful interference. The FCC has exclusive jurisdiction over these requirements.

The proposed "Mount Hope" Verizon Wireless facility is in compliance with all applicable FCC requirements. Verizon Wireless' engages in the following practices pertinent to complying with FCC requirements:

- 1. Verizon Wireless locates its transmitting antenna(s) in order to maximize vertical and horizontal separation from other operator's systems to minimize interference potential;
- 2. All operating hardware at the site is type-accepted by the FCC as far as emission levels within Verizon Wireless' licensed frequency band in addition to spurious emissions outside of Verizon Wireless frequency band;
- 3. The power levels generated by the base station hardware and corresponding effective radiated power (ERP) from the transmit antenna(s) are within the limitations specified by Part 22 of the Commission's Rules; and
- 4. Intermodulation studies are prepared an analyzed considering all carriers on the tower to ensure no mixing of frequencies will create harmful interference to/from Verizon Wireless' wireless system.

Verizon Wireless is committed to providing state of the art wireless services that benefits your community. If you have any questions please feel free to contact me.

Sincerely,

Ashutosh Pandey

RF Engineer – Verizon Wireless

IMPACT STUDY

Impact Study - Cell Tower 280 Rimer Road Salisbury, Rowan County, North Carolina 28146

Type Report: Impact Study

Effective Date November14, 2017

Client's Project ID n/a



November 27, 2017

Ms. Laura D. Goode Attorney Baker, Donelson, Bearman, Caldwell & Berkowitz, PC 1501 Main St., Suite 600 Columbia, SC 29201

RE: Impact Study for Proposed Telecommunications Facility located at 280 Rimer Road, Salisbury, Rowan County, North Carolina.

Dear Ms. Goode:

I have completed a study of the proposed tower. The scope of the assignment is to provide an analysis and conclusions addressing whether the proposed development will substantially injure the values of adjacent or abutting properties.

The impact study is intended to conform to the Uniform Standards of Professional Appraisal Practice (USPAP), the Code of Professional Ethics and Standards of Professional Appraisal Practice of the Appraisal Institute. The impact study is not an appraisal as it does not report a value of any property; however, the study employs appraisal methodology to reach our conclusions of the impact of the proposed development.

The proposed development is a dedicated communication tower to be located on a property owned by Debbie Craddock and Patricia Moore. They are the owners of other parcels adjacent to the site of the proposed tower. The siting of the proposed tower is in the northwest corner of the site. The siting of the proposed tower minimizes the visual impact in concert with the existing tree canopy. The surrounding land uses include low density residential and vacant land. The surrounding land uses are a contributing factor in the development of a conclusion regarding the potential impact of the tower.

The conclusions of this study are supported by the data and reasoning set forth in the attached narrative. Your attention is invited to the Assumptions and Limiting Conditions section of this report. The analysts certify that we have no present or contemplated future interest in the proposed development, and that our fee for this assignment is in no way contingent upon the conclusions of this study.

EXTRAORDINARY ASSUMPTIONS AND HYPOTHETICAL CONDITIONS:

Laura Goode November 27, 2017 Page 2

It is an extraordinary assumption of this report that the proposed development will be constructed as detailed in the report. Further, it is an assumption of the study that the existing access will be used to access the proposed wireless facility.

The content and conclusions of this report are intended for our client and for the specified intended uses only. They are also subject to the assumptions and limiting conditions as well as the specific extraordinary assumption set forth in this report.

It is our opinion that the proposed development will not substantially injure the values of adjacent or abutting properties and that it is located in an area where it does not substantially detract from the aesthetics and neighborhood character.

Thank you for the opportunity to be of service. If you have any questions or comments, please contact our office.

Sincerely yours,

MICHAEL P. BERKOWITZ MPB REAL ESTATE, LLC

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SCOPE OF THE ASSIGNMENT

In accordance with our agreement with the client, this impact study is specific to the needs of our client as part of an application for a conditional use permit to be considered by Rowan County Officials. Our study and the reporting of our study is in agreement with our client as follows:

The proposed development requires a Conditional Use Permit. The report is intended to address Article III Section 21-58 (e)(2) which states:

"That the development of the property in accordance with the proposed conditions will not substantially injure the value of adjoining or abutting property."

The scope of the assignment includes research of existing towers in the neighborhood. The neighborhoods and their surrounding developments are researched to determine whether the proposed development, referred to as the "Mount Hope Site", is consistent with the location of other towers in this section of Rowan County and their impact, if any, on neighborhood development patterns and property values.

The impact study provides an analysis of the surrounding properties. The analysis includes existing improvements, zoning designations and likely development patterns. The existing uses as of the effective date of this report in concert with the market data provided are contributing factors to the conclusions of this study.

PREMISES OF THE STUDY

Identification of Subject Mount Hope Site

280 Rimer Road

Salisbury, Rowan County, NC 28146

Tax Parcel ID: 422-179

Client, Purpose, and Intended Use and Intended Users Ms. Laura D. Goode

Attorney

Baker, Donelson, Bearman, Caldwell & Berkowitz, PC

1501 Main St., Suite 600

Columbia, SC 29201

The client and intended user is Ms. Laura Goode. The intended use is as an aid to assist Rowan County officials in rendering a decision regarding the issuance of a conditional use permit for the proposed development. The study is not intended for any other use or users.

Analyst

Michael P. Berkowitz

MPB Real Estate, LLC 1100 Sundance Drive Concord, NC 28027

Property Inspection

Michael Berkowitz inspected the property and neighborhood surrounding the proposed development. Details of surrounding land uses and observations are provided throughout the report. I also performed off site visual inspections of several towers located in Rowan County. I consider my observations in the context of the market data. They are a contributing factor to my conclusions. Photographs of the property were taken during Mr. Berkowitz's inspection.

Extraordinary Assumptions of Report

It is an extraordinary assumption of this report that the improvements as described within this report are compliant with the appropriate ordinance regarding items including but not necessarily limited to setbacks, landscaping, access and other items outside our field of expertise for this assignment. These items will be addressed as part of the application by others with expertise within the respective fields.

Should the extraordinary assumptions not exist, we reserve the right to amend this study.

Effective Date of Study

November 14, 2017

Date of Report

November 27, 2017

Type Report

Impact Study Report

Study Development and Reporting Process

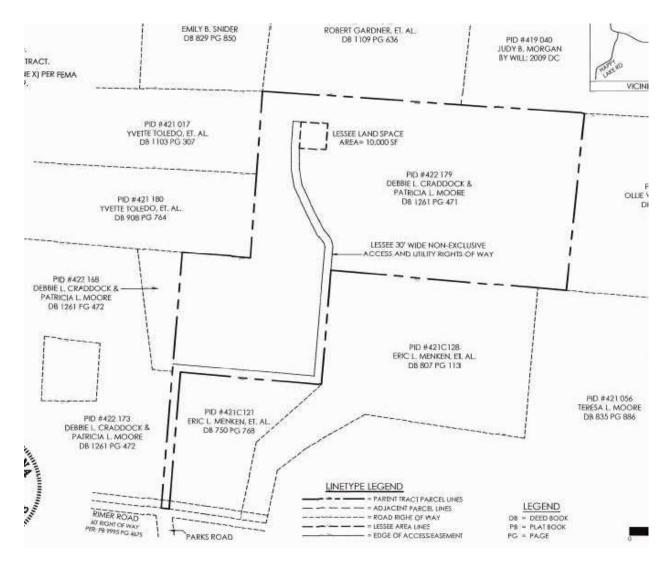
In preparing this study, the analyst:

- Analyzes physical affects, if any, of the proposed construction on properties in the immediate area as well as the neighborhood;
- Reviews plans for the proposed development to determine whether it is in compliance with the Rowan County Commercial Communications Tower Ordinance with respect to items within my field of expertise;
- Reviews site plan provided by our client with respect to the physical characteristics of the proposed development;
- Reviews Section 21.60.3 of the Rowan County Zoning Ordinance regarding the development of Communication and Wireless support structures;
- Researches market data around existing cell towers in Rowan County to determine whether the proposed development is in accordance with the other similar developments in the area.

PROPOSED FACILITY

Tower

Based on information provided to the analyst, the proposed tower will consist of a 165-foot "monopole" communications tower. The following site plan shows the proposed site.



SITE PLAN

Site Improvements

The site improvements include an eight-foot chain link fence with three strands of barbed wire. As we will detail throughout this report, the existing vegetation provides a strong buffer that will obscure a significant portion of the proposed development. The base of the proposed tower will be totally obscured from neighboring properties.

Access

The shape of the site and limited frontage of the property instigated the improvement and/or new installation of an access road to the northwestern corner of the site. The road will parallel the eastern boundary of the site. This appears consistent with the existing access to the property. The scope

of the work for the access driveway is included in the plans that are part of the application. We assume that the access for the proposed development is in accordance with all local and state regulations. Given the use of the current access, we consider the assumption reasonable.

Location

The proposed tower is located in a heavily wooded area off the Rimer Road corridor. As we will detail later in the report, the majority of property in the area is used for low density residential and agricultural purposes.

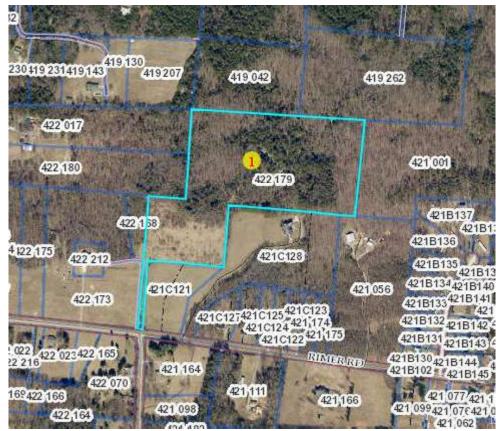
The subject has a zoning designation of RA, Residential/Agricultural District. The developments along the Rimer Road corridor are consistent with this designation.



SURROUNDING LAND USES

The proposed development is located on a 23.98-acre tract of land off of Rimer Road. Many of the parcels in the immediate area are vacant or used for agricultural purposes. The remaining parcels are improved with low density residential improvements. The following chart provides a list of the adjacent properties Followed by an aerial of the properties.

	Adjacent Properties Summary									
Tax Parcel	Address/Location	Owner	Acres	Improvements	Use					
422 173	725 Parks Road	D. Craddock & P. Moore	12.57	None	Vacant Land					
422 168	Parks Road	D. Craddock & P. Moore	1.26	None	Vacant Land					
422 180	310 El Camino Dr.	Yvette Toledo et al	11.61	Mobile Home	SFD					
422 017	425 El Camino Dr.	Yvette Toledo et al	13.71	SFD	SFD					
419 207	Mt. Hope Church Rd.	Emily Snider	5.12	Shed	Agricultural					
419 042	Mt. Hope Church Rd.	Robert Gardner et al	8.29	None	Vacant Land					
419 262	Sandy Creek Ln.	Judy Morgan	15	None	Agricultural					
421 001	Basinger Klutz Rd.	Virginia Stancil	24.5	None	Vacant Land					
421 056	390 Rimer Rd.	Teresa Moore	12.13	SFD	SFD					
421C128	170 Rimer Rd.	Eric & Madelyn Menken	11.19	SFD	SFD					
421C121	Rimer Rd	Eric & Madelyn Menken	4.08	None	Vacant Land					



For the purposes of the analysis, we do not include the two properties under the same ownership as the proposed site. We have segregated the remaining adjacent properties into two categories. The segmentation of the properties is based on the location and potential visual impact of the proposed tower. The categories are the properties closer to the tower that are accessed from other streets and the properties along Rimer Road.

Properties Off Rimer Road – This group of properties have access from streets other than Rimer Road. There are two properties to the west that are improved with single family dwellings. Both of these properties have a long thin shape and consist of over 10 acres. The area abutting the proposed tower is heavily wooded. The potential visual impact on these properties is nominal if visible at all.

The three properties along the northern boundary of the proposed development are vacant tracts of land. Again, all of these parcels include significant trees that in conjunction with

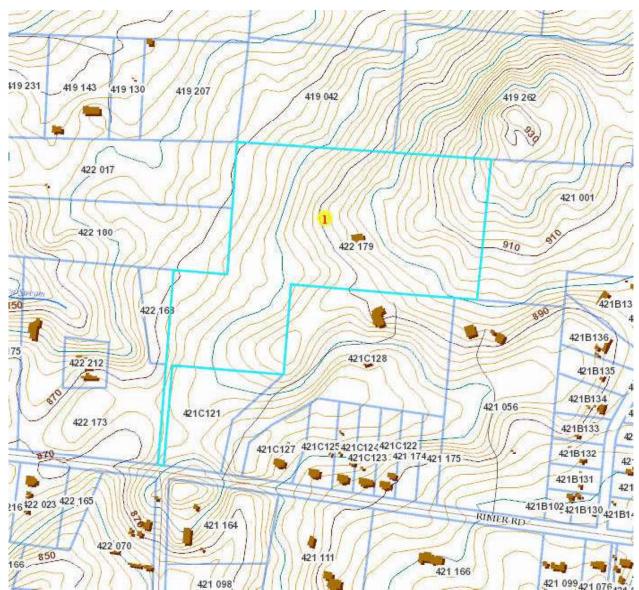
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the trees around the proposed development will minimize the visual impact of the proposed tower.

The last parcel in this category is the heavily wooded tract immediately to the east of the proposed tower. As with the other parcels in this category, the trees on the subject property and the adjacent property will minimize the visual impact of the proposed tower.

Properties Along Rimer Road — There are three parcels located south of the proposed tower that are adjacent to the subject parcel. Two of the parcels are improved with single family dwellings. The third parcel is under the same ownership as the adjacent parcel. The siting of the proposed tower minimizes the visual impact because of its location within a heavily wooded area on the subject property. Further, development patterns in the immediate area include the preservation of trees to provide screening and buffers with adjacent properties.

The following exhibits provide topographical maps of the proposed development as well as surrounding properties. The proposed tower will be located in the northwestern corner of the site. The elevations are considered in the analysis of potential visual impact of the tower on surrounding properties.



As we will discuss in the following section, the scope of the assignment is to determine whether the proposed development is in accordance with the Rowan County zoning ordinance regarding the issuance of a conditional use permit and the development of wireless communications support structures. The items within our field of expertise are detailed in the following section.

ROWAN COUNTY ZONING ORDINANCE

As part of the assignment, I reviewed Article III Section 21-58 (e)(2) of the Rowan County Zoning Ordinance. This section details the review procedures for development of a

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wireless support structure and the conditional use permit requirements. The following was extracted from the ordinance.

- (e) Required findings. All decisions regarding a conditional use permit application shall not be approved or denied unless each of the following findings has been made:
 - The development of the property in accordance with the proposed conditions will not materially endanger the public health or safety;
 - (2) That the development of the property in accordance with the proposed conditions will not substantially injure the value of adjoining or abutting property, or that the development is a public necessity; and
 - (3) That the location and character of the development in accordance with the proposed conditions will be in general harmony with the area in which it is located and in general conformity with any adopted county plans.

The items within this section are mentioned in the study, but surveys and other physical features will be addressed in the application for the conditional use permit.

Based on our review of the ordinance, the remainder of the study focuses on the relation to surrounding property and potentially injurious effect of the conditional use on adjoining properties and the character of the neighborhood. Please note, we have segregated the properties as detailed earlier in the report. The potential impact on these properties is the visual impact of the proposed tower.

Properties Off Rimer Road – This group of properties are heavily wooded. The elevations are lower than the proposed development. Based on the existing tree cover on the subject as well as these properties, we consider it unlikely that the proposed tower will be visible.

Properties Along Rimer Road — There are three parcels located south of the proposed tower that are adjacent to the subject parcel. The proposed tower is on the opposite side of a slope that puts the base of the proposed tower below the elevations of one of the single family dwellings. Again, the improvements for these properties are surrounded by trees. Further, the orientation of the single family dwelling closest

to the proposed tower would place the tower on the side of the dwelling.

Again, we will discuss property values later in the report. We acknowledge that the proposed 165-foot tower will have a height in excess of any structure in the immediate area. The infrastructure in the area includes above ground utilities along Rimer Road. The power lines observed represent a larger visual footprint than the proposed tower. All of the residential properties along the corridor have trees that provide screening, which is the most significant factor in the analysis.

Summary

The items within our field of expertise focus on the aesthetic impact of the proposed development and whether the proposed facility will substantially injure values of adjacent or abutting properties. This is based on the existing developments as detailed earlier in the study.

MARKET RESEARCH

A potential issue associated with the impact of the proposed development is on property values in the immediate vicinity and the neighborhood. We researched towers in Rowan County and identify the development patterns around these towers. After analyzing the market data, we compare this information to the proposed site and the physical characteristics and development patterns surrounding the proposed development.

Rowan County Towers

During our research, we observed several towers in Rowan County. The cell towers selected for direct comparison were chosen for a variety of reasons including but not necessarily limited to:

 Location – The proposed location is in a rural area of Rowan County and includes low density residential developments.

- Surrounding Developments The surrounding developments along Rimer Road include agricultural, vacant land and low density residential uses.
- *Construction Type/Height* The proposed tower is a monopole that poses a smaller visual footprint than lattice and guyed towers.

For the research of towers, we rely on information from antennasearch.com, which we consider a reliable source of information. We considered nine towers in the area for comparison. Some towers were not visible from the public right-of-way and were excluded. Some of the towers were located in areas that are inconsistent with the neighborhood of the proposed tower. The following chart provides a summary of the towers considered with the most comparable towers highlighted in yellow.

Tower Summary									
Construction	Construction Year Built Address								
Lattice	1999	8670 Red Road	305						
Monopole	2003	205 St Paul Church Rd	164						
Guyed	1984	ENE Shuping Mill & Rock Grove Church Rds	300						
Monopole	1999	4645 Cook Road	225						
Unknown	2016	415 Balfour Quarry Road	155						
Guyed	1988	310 Hill Street	481						
Lattice	2013	1090 Corporate Center Drive	100						
Lattice	2015	Faith Mtn Tr, 3rd St & Stoney Heights Dr.	300						
Monopole	2003	700 E Ritchie Rd	125						

Consistent with the ordinance for Rowan County, most of the towers in the area are either located on or adjacent to commercial and industrial areas. Influence from major transportation corridors was also considered in the selection of towers. In many cases there are several factors that contributed to the development patterns and values around the towers. The towers selected are intended to provide evidence in support for my conclusions.

Each tower has some visual influence from residential development. While the market rarely provides an exact match for a proposed development, the analysis of the market data around the following towers coupled with their similar locations provides information regarding residential sales around telecommunication towers.





8670 Red Road

This tower was researched because of its similar location. The lattice construction and tower height propose a significantly higher visual impact on adjacent properties. The market data for adjacent and abutting properties is limited. However, the house shown on the previous photograph that is directly in front of the tower was sold in May 2010 for \$114,000. Other sales of single family dwellings ranged from \$112,500 to \$115,000. Despite the location adjacent to the tower, the sales price appears consistent with other older homes in the area.

205 St. Paul Church Road

We considered this tower a comparable example to the proposed development. However, upon inspection of this area, the tower is embedded in a large tree area and is not visible from the residential developments along Mill Wheel Drive.

4645 Cook Road

This tower has similar surrounding development patterns to the proposed tower. We found the sale of two of the adjacent properties that were purchased as an assemblage for \$80,000. One of the parcels included a single family dwelling constructed in 1941. Another sale down the street included a smaller lot and was heavily wooded. This property sold for \$85,000. The dwelling on this site was constructed in 1967

and is superior to the previous sale. The larger lot size of the property adjacent to the tower offsets the superior condition of the improvements on the property with no visibility. Regardless, the variance of \$5,000 between the two sales is not considered substantial. The following exhibits show an aerial and street scene of the tower.





Summary

Based on the analysis of the data and development patterns around the towers, we conclude that the presence of a wireless support structure does not impede the orderly development of the area. Further, the market does not recognize a substantial injury to property values for adjacent/abutting properties of such a development.

Other Considerations

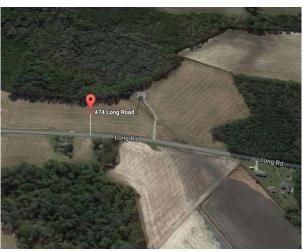
Other potential impacts to the surrounding area include noise, traffic and lighting. The operation of a cell tower is essentially silent and would not influence the surrounding developments. The additional traffic caused by the proposed development is nominal and would likely occur for routine maintenance. Any increases in traffic are considered nominal and does not impact the adjacent or abutting properties.

Given the scarcity of market data in the neighborhood, we provide the results from a study for a proposed tower in Robeson County. The scope of the impact study addressed the potential impact of value on properties in the neighborhood. The following provides market data for the towers found in

Robeson County that are a similar market to the proposed development.

The following data is segregated into two categories: single family homes and vacant land. For all of the data sets, the properties highlighted in yellow are those properties along the same corridor as the tower. These properties are compared to properties highlighted in green, which are along similar streets without a tower. We include additional market data as background for the paired sales analyses.





474 Long Road

This tower is the most comparable to the proposed tower at 180 feet. As with the surrounding developments for the other towers selected for comparison in this study, the land uses in the area are primarily agricultural. The low density residential developments include homes constructed over a wide time span including some estate style homes. The market data for single family dwellings are summarized in the following chart.

SFD SALES										
Address	Sale Date	Sales Price	Year Built	SF	Acres	\$/SF				
46 SURRY	5/25/2005	\$68,000	1986	1,152	2.34	\$ 59.03				
121 SURRY	10/29/2007	\$93,000	1978	1,443	1	\$ 64.45				
285 JUNE	5/15/2009	\$41,000	2000	1,632	1	\$ 25.12				
992 LONG RD	8/20/2007	\$57,500	1978	972	1	\$ 59.16				
867 LONG RD	11/5/2009	\$27,000	1962	800	1.52	\$ 33.75				
719 LONG RD	6/8/2015	\$87,000	1989	1,437	4.37	\$ 60.54				
1148 LONG RD	8/14/2015	\$227,500	2005	2,029	1.8	\$ 112.12				

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The analysis of these sales as well as other sales presented later in this section includes several factors including but not necessarily limited to size, age and lot size. The most compelling market data is the consistency in the prices paid per square foot for the highlighted properties. The comparison of the data shows some offsetting characteristics, but does provide evidence that the cell tower located along Long Road does not injure property values in the area.

The second data set is for land sales found in the area. The highlighted properties are for residential lots consistent with the low density development patterns in the neighborhood.

LAND SALES										
Address	Sale Date	Sales Price	Acres	\$/Acre						
181 TROY DR	6/11/2010	\$150,000	19.63	\$ 7,641						
WILKES RD	5/1/2013	\$20,000	7.39	\$ 2,706						
859 LONG RD	8/22/2012	\$15,000	1.24	\$ 12,097						
OFF LONG RD	3/24/2015	\$22,000	3.43	\$ 6,414						

Contrary to the market data for single family dwellings, the most compelling information from this data set is the price point for the residential lots. The size of the lots is the most influential factor on price point. Again, the market data indicates that the tower has not impeded demand for land along the Long Road corridor nor has it injured land values in the area.





7746 E Hwy 211

This tower as well as all of the remaining tower have heights of 300-feet or higher. I have applied the same methodology with the previous analyses and segregated the data into single

family dwellings and vacant land. The sales for single family dwellings are summarized in the following chart.

SFD SALES									
Address	Sale Date	Sales Price	Year Built	SF	Acres		\$/SF		
913 HARRIS RD	1/31/2017	\$65,000	2005	1,443	1	\$	45.05		
4642 OLD ALLENTON	12/7/2015	\$64,000	1950	912	1	\$	70.18		
146 BEAR BAY	11/13/2014	\$48,000	1980	1,456	2.69	\$	32.97		
877 OLD ALLENTON	6/25/2013	\$46,500	1969	1,506	1.5	\$	30.88		
9697 NC 211	6/26/2012	\$61,000	1955	1,170	1.24	\$	52.14		
8355 E NC HWY 211	6/3/2015	\$75,000	1988	1,152	4.22	\$	65.10		

The physical variance in this data set would require a higher level of adjustment. Notwithstanding this fact, the sales along the 211 corridor provide a similar price point and price paid per square foot. The offsetting nature of the variances is reflected in the similar price point for the majority of sales with the property closest to the tower having the highest price point. The analysis of this data set provides further evidence to our conclusion.

The following chart provides a summary of land sales for the area. Again applying the same methodology as the previous analyses.

LAND SALES									
Address	Sale Date	Sales Price	Acres	ű	Acre				
NC HWY 211	12/17/2014	\$17,500	0.59	\$	29,661				
699 BAY BEAR	6/18/2015	\$17,000	8.13	\$	2,091				
HARRIS RD	5/14/2015	\$8,500	1	\$	8,500				
HARRIS RD	8/17/2015	\$9,000	1.27	\$	7,087				
3 PITTMAN	4/4/2014	\$250,000	93.22	\$	2,682				
WILKES	5/1/2013	\$20,000	7.39	\$	2,706				
481 HARRIS RD	2/8/2013	\$25,500	0.92	\$	27,717				
538 DERWOOD	9/17/2012	\$45,000	17.74	\$	2,537				
DERWOOD	7/19/2012	\$80,000	24.84	\$	3,221				
PITTMAN	5/21/2012	\$15,000	14.08	\$	1,065				

The best matched pair in this data set is from the sales of two mobile home lots. While the price point was higher for the sale on Harris Road, the price per acre was higher for the lot on Highway 211. This indicates that size was a significant factor in the price paid. The size variance would be the most significant factor. The only other sale found lies on the lower end of the range of the data set, which is considered

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reasonable given its physical characteristics including some areas that appear to be undevelopable.



Kinlaw Road

The land sales in the area provide the most compelling evidence in the neighborhood for this tower. The following chart provides a summary of land sales in the area.

LAND SALES									
Address	Sale Date	Sales Price	Acres	\$	/Acre				
HOWELL RD	5/25/2012	\$98,000	47	\$	2,085				
TARHEEL RD	12/12/2012	\$13,000	3.37	\$	3,858				
346 BARNHILL	9/3/2013	\$28,500	8	\$	3,563				
5168 TARHEEL	1/3/2014	\$30,000	9.15	\$	3,279				
KINLAW RD	9/4/2014	\$27,000	6.87	\$	3,930				

The sale closest to the tower sold for the highest price per acre. Again, the market data for land around this cell tower indicates that the tower does not injure the prices paid for land in the neighborhood.

The following is a summary of single family dwelling sales found in the neighborhood.

SFD SALES									
Address	Sale Date	Sales Price	Year Built	SF	Acres		\$/SF		
88 BARNHILL	4/30/2012	\$76,000	1995	1,458	2.01	\$	52.13		
6876 HOWELL	5/22/2012	\$55,000	1988	1,344	1.98	\$	40.92		
7889 HOWELL	12/17/2012	\$37,500	1950	1,454	1.86	\$	19.23		
5168 TARHEEL	5/9/2013	\$125,000	1958	1,980	5	\$	63.84		
6225 HOWELL	8/10/2016	\$200,000	1999	2,837	1.01	\$	100.05		
6257 HOWELL	2/10/2017	\$225,000	2007	3,303	1	\$	112.11		
306 TARHEEL	10/17/2013	\$177,500	1953	3,087	5.03	\$	90.89		
3647 TARHEEL	9/5/2014	\$46,000	1992	1,296	0.92	\$	23.09		
5478 TARHEEL	10/3/2014	\$125,000	2002	1,920	8.4	\$	62.44		
8191 HOWELL	11/10/2014	\$71,000	1980	1,032	1.02	\$	35.86		
470 KINLAW RD	12/31/2014	\$42,500	1982	1,338	1.5	\$	21.44		
KINLAW RD	6/15/2015	\$73,500	1962	1,485	0.89	\$	37.46		

The review of sales of single family dwellings reveals that age and condition of the improvements is the most significant factor in the prices paid. Development in the area is sparse and supply side pressures in the market and low number of transactions indicates that the neighborhood is in the stable phase of its economic development. This is similar to the subject's neighborhood. The sales price paid for the properties along the corridor of the tower and other corridors is consistent.





Gaston Drive

This tower is located in Bladen County. The surrounding developments are comparable to the subject and is included in this analysis. The tower is located off Gaston Drive. The single family dwelling sales in the neighborhood were insufficient quantity (two sales found), to provide a credible analysis. However, the sales of land as shown on the following chart provide a reflection of the market. The following chart

is a summary of the sales. Note the two first sales in the chart are for mobile home lots.

LAND SALES								
Address	Sale Date	Sales Price	Acres	\$/Acre				
2392 GUYTON	7/19/2012	\$10,000	1	\$ 10,000				
300 GASTON DR	2/23/2015	\$19,000	1.7	\$ 11,176				
MASSEY RD	10/16/2012	\$25,000	15.35	\$ 1,629				
GUYTON ROAD	5/31/2013	\$9,000	0.98	\$ 9,184				
GUYTON RD	10/18/2013	\$20,000	5.57	\$ 3,591				
MASSEY RD	12/3/2013	\$6,000	0.9	\$ 6,667				
MASSEY RD	4/23/2014	\$31,500	12.37	\$ 2,546				
1023 STORMS RD	3/20/2015	\$9,000	2	\$ 4,500				
303 GASTON DR	8/29/2015	\$11,000	0.89	\$ 12,360				

The land sales for lots near the tower are consistent with other lot sales found with no visual influence from the tower. The two lots highlighted in yellow reflect the upper end of the range for vacant land. The market data indicates that development near the tower has not influenced the normal course of development for the immediate area. Further, the market data indicates that buyers are paying similar prices for lots within the visual sphere of influence of a cell tower.

The recent studies I have performed provide no empirical evidence that the proposed tower will injure property values for adjacent or abutting properties. The studies provided are for larger areas of potential influence than adjacent or abutting properties.

Conclusions

The sparse market activity in Rowan County indicates that the market is stable. The rural land uses for agriculture and low density residential are likely to continue for the foreseeable future. These uses are not impeded by the development of a cell tower. The results of studies including those included in this report show consistency between prices paid for land and single family dwellings in rural areas where cell towers are present. Therefore, I conclude that the proposed development of a cell tower will not substantially injure the value of adjacent or abutting properties.

Subject Neighborhood

In addition to the market activity for existing towers, we also consider the surrounding developments for the subject. The question posed for this study is "would the development of the telecommunications support structure warrant a downward adjustment to adjacent properties?"

When considering an adjustment in an appraisal, the appraiser must consider all factors that could contribute to an adjustment. The aesthetics and location of the proposed development as well as the existing developments are a factor in developing our opinion. The factors considered in developing our opinion include but are not necessarily limited to:

- The market has not shown a detrimental impact on development patterns in areas with visual influence from a tower.
- The existing infrastructure along Rimer Road includes above ground electrical transmission lines that pose a higher level of visual impact than the proposed tower despite its proposed height.
- The proposed development is located in a heavily wooded area that will screen a significant portion of the tower in all directions.

All of these factors would contribute to the aesthetic appeal and a hypothetical valuation of properties in the neighborhood. The multitude of factors would indicate that multicollinearity for aesthetics exists along the Rimer Road corridor. Multicollinearity arises when multiple items correlate with each other. The multiple factors can cause a distortion of the impact of any of the factors individually without consideration for all of the factors that contribute to the common issue.

In the case of the proposed development, all of the properties along the Rimer Road corridor have visual impact from other existing infrastructure. These factors contribute to our conclusion that the proposed developed is in harmony with development patterns along Rimer Road. To attribute any adjustment to the proposed development would be misleading and not result in a credible adjustment. In other words, any adjustment for the development of a tower in a wooded area along the Rimer Road corridor without consideration of the numerous other aesthetic influences would not be credible.

Therefore, it is our opinion that the proposed development in accordance with the proposed conditions will not substantially injure the value of adjoining or abutting property. We recognize that the aesthetics of the area certainly contribute to the overall appeal, the proposed development has siting and existing buffers to minimize to the extent possible the visual impact of the proposed tower. It is my opinion that the proposed development will not substantially detract from the aesthetics or character of the neighborhood because of its location and existing above ground infrastructure.

Michael P. Berkowitz

ADDENDA

Certifications

CERTIFICATION OF THE ANALYST

- I, Michael P. Berkowitz, certify that, to the best of my knowledge and belief,
- 1. The statements of fact contained in this report are true and correct.
- 2. The reported analyses, opinions, and conclusions are limited only by the reported assumptions and limiting conditions and are my personal, impartial, and unbiased professional analyses, opinions, and conclusions.
- 3. I have no present or prospective interest in the property that is the subject of this report and no personal interest with respect to the parties involved.
- 4. I have performed no services, as an appraiser or in any other capacity, regarding the property that is the subject of this report within the three-year period immediately preceding acceptance of this assignment.
- 5. I have no bias with respect to the property that is the subject of this report or to the parties involved with this assignment.
- 6. My engagement in this assignment was not contingent upon developing or reporting predetermined results.
- 7. My compensation for completing this assignment is not contingent upon the development or reporting of a predetermined value or direction in value that favors the cause of the client, the amount of the value opinion, the attainment of a stipulated result, or the occurrence of a subsequent event directly related to the intended use of this study.
- 8. The reported analyses, opinions, and conclusions were developed, and this report has been prepared, in conformity with the *Uniform Standards of Professional Appraisal Practice*.
- 9. The use of this report is subject to the requirements of the Appraisal Institute relating to review by its duly authorized representatives.
- 10. I have made a personal inspection of the property that is the subject of this report.
- 11. No one provided significant real property appraisal assistance to the person(s) signing this certification other than those individuals having signed the attached report.



Michael P. Berkowitz

(NC State Certified General Real Estate Appraiser #A6169) (SC State Certified General Real Estate Appraiser #CG6277)

November 27, 2017

Date

(Rev: 06/18/12)

ASSUMPTIONS AND LIMITING CONDITIONS

ASSUMPTIONS AND LIMITING CONDITIONS

Limit of Liability

The liability of MPB REAL ESTATE, LLC and employees is limited to the client only and to the fee actually received by our firm. Further, there is no accountability, obligation, or liability to any third party. If this report is placed in the hands of anyone other than client, the client shall make such party aware of all limiting conditions and assumptions of the assignment and related discussions. Further, client will forever indemnify and hold MPB REAL ESTATE, LLC, its officers, and employees harmless from any claims by third parties related in any way to the appraisal or study which is the subject of the report. Third parties shall include limited partners of client if client is a partnership and stockholders of client if client is a corporation, and all lenders, tenants, past owners, successors, assigns, transferees, and spouses of client. MPB REAL ESTATE, LLC will not be responsible for any costs incurred to discover or correct any deficiencies of any type present in the property, physically, financially, and/or legally.

Copies, Distribution, Use of Report

Possession of this report or any copy of this report does not carry with it the right of publication, nor may it be used for other than its intended use; the physical report remains the property of MPB REAL ESTATE, LLC for the use of the client, the fee being for the analytical services only.

The bylaws and regulations of the Appraisal Institute require each member and candidate to control the use and distribution of each report signed by such member or candidate; except, however, the client may distribute copies of this report in its entirety to such third parties as he may select; however, selected portions of this report shall not be given to third parties without the prior written consent of the signatories of this report. Neither all nor any part of this report shall be disseminated to the general public by the use of advertising media, public relations, news, sales or other media for public communication without the prior written consent of MPB REAL ESTATE, LLC.

Confidentiality

This report is to be used only in its entirety and no part is to be used without the whole report. All conclusions and opinions concerning the analysis as set forth in the report were prepared by MPB REAL ESTATE, LLC whose signatures appear on the report. No change of any item in the report shall be made by anyone other than MPB REAL ESTATE, LLC. MPB REAL ESTATE, LLC shall have no responsibility if any such unauthorized change is made.

MPB REAL ESTATE, LLC may not divulge the material contents of the report, analytical findings or conclusions, or give a copy of the report to anyone other than the client or his designee as specified in writing except as may be required by the Appraisal Institute as they may request in confidence for ethics enforcement, or by a court of law or body with the power of subpoena.

Trade Secrets

This report was obtained from MPB REAL ESTATE, LLC and consists of "trade secrets and commercial or financial information" which is privileged and confidential and exempted from disclosure under 5 U.S.C. 552 (b) (4) of the Uniform Commercial Code. MPB REAL ESTATE, LLC shall be notified of any request to reproduce this report in whole or in part.

Information Used

No responsibility is assumed for accuracy of information furnished by or work of others, the client, his designee, or public records. We are not liable for such information or the work of subcontractors. The comparable data relied upon in this report has been confirmed with one or more parties familiar with the transaction or from affidavit or other sources thought reasonable; all are considered appropriate for inclusion to the best of our factual judgment and knowledge. An impractical and uneconomic expenditure of time would be required in attempting to furnish unimpeachable verification in all instances, particularly as to engineering and market-related information. It is suggested that the client consider independent verification as a prerequisite to any transaction involving sale, lease, or other significant commitment of funds for the subject property.

Financial Information

Our value opinion(s) have been based on unaudited financials, and other data provided to us by management and/or owners. If these reports are found to be inaccurate, we reserve the right to revise our value opinion(s). It is noted we are depending on these accounting statements as being accurate and our interpretation of these statements as being accurate as well. If these assumptions later prove to be false, we reserve the right to amend our opinions of value.

Testimony, Consultation, Completion of Contract for Report Services

The contract for report, consultation, or analytical service is fulfilled and the total fee payable upon completion of the report, unless otherwise specified. MPB REAL ESTATE, LLC or those assisting in preparation of the report will not be asked or required to give testimony in court or hearing because of having made the report, in full or in part, nor engage in post report consultation with client or third parties except under separate and special arrangement and at an additional fee. If testimony or deposition is required because of any subpoena, the client shall be responsible for any additional time, fees, and charges, regardless of issuing party.

Exhibits

The illustrations and maps in this report are included to assist the reader in visualizing the property and are not necessarily to scale. Various photographs, if any, are included for the same purpose as of the date of the photographs. Site plans are not surveys unless so designated.

Legal, Engineering, Financial, Structural or Mechanical Nature, Hidden Components, Soil No responsibility is assumed for matters legal in character or nature, nor matters of survey, nor of any architectural, structural, mechanical, or engineering nature. No opinion is rendered as to the title, which is presumed to be good and marketable. The property is appraised as if free and clear, unless otherwise stated in particular parts of the report. The legal description is assumed to be correct as used in this report as furnished by the client, his designee, or as derived by MPB REAL ESTATE, LLC.

MPB REAL ESTATE, LLC has inspected as far as possible, by observation, the land and the improvements; however, it was not possible to personally observe conditions beneath the soil, or hidden structural, mechanical or other components, and MPB REAL ESTATE, LLC shall not be responsible for defects in the property which may be related.

The report is based on there being no hidden, unapparent, or apparent conditions of the property site, subsoil or structures or toxic materials which would render it more or less valuable. No

responsibility is assumed for any such conditions or for any expertise or engineering to discover them. All mechanical components are assumed to be in operable condition and status standard for properties of the subject type. Conditions of heating, cooling, ventilation, electrical, and plumbing equipment are considered to be commensurate with the condition of the balance of the improvements unless otherwise stated. We are not experts in this area, and it is recommended, if appropriate, the client obtain an inspection of this equipment by a qualified professional.

If MPB REAL ESTATE, LLC has not been supplied with a termite inspection, survey or occupancy permit, no responsibility or representation is assumed or made for any costs associated with obtaining same or for any deficiencies discovered before or after they are obtained. No representation or warranties are made concerning obtaining the above mentioned items.

MPB REAL ESTATE, LLC assumes no responsibility for any costs or consequences arising due to the need, or the lack of need, for flood hazard insurance. An agent for The Federal Flood Insurance Program should be contacted to determine the actual need for Flood Hazard Insurance.

Legality of Use

The report is based on the premise that there is full compliance with all applicable federal, state and local environmental regulations and laws unless otherwise stated in the report; further, that all applicable zoning, building and use regulations, and restrictions of all types have been complied with unless otherwise stated in the report. Further, it is assumed that all required licenses, consents, permits, or other legislative or administrative authority, local, state, federal and/or private entity or organization have been or may be obtained or renewed for any use considered in the value estimate.

Component Values

The distribution of the total valuation in this report between land and improvements applies only under the existing program of utilization. The separate valuations for land and building must not be used in conjunction with any other report and are invalid if so used.

Auxiliary and Related Studies

No environmental or impact studies, special market study or analysis, highest and best use analysis, study or feasibility study has been required or made unless otherwise specified in an agreement for services or in the report.

Dollar Values, Purchasing Power

The market value estimated and the costs used are as of the date of the estimate of value, unless otherwise indicated. All dollar amounts are based on the purchasing power and price of the dollar as of the date of the value estimate.

Inclusions

Furnishings and equipment or personal property or business operations, except as specifically indicated and typically considered as a part of real estate, have been disregarded with only the real estate being considered in the value estimate, unless otherwise stated. In some property types, business and real estate interests and values are combined.

Proposed Improvements, Conditional Value

Improvements proposed, if any, onsite or offsite, as well as any repairs required, are considered for purposes of this report to be completed in a timely, good and workmanlike manner, according to information submitted and/or considered by MPB REAL ESTATE, LLC. In cases of proposed construction, the report is subject to change upon inspection of property after construction is completed.

Value Change, Dynamic Market, Influences, Alteration of Estimate

The estimated value, which is defined in the report, is subject to change with market changes over time. Value is highly related to exposure, time, promotional effort, terms, motivation, and conditions surrounding the offering. The value estimate considers the productivity and relative attractiveness of the property physically and economically in the marketplace.

In cases of reports involving the capitalization of income benefits, the estimate of market value or investment value or value in use is a reflection of such benefits and MPB REAL ESTATE, LLC' interpretation of income and yields and other factors derived from general and specific client and market information. Such estimates are as of the date of the estimate of value; thus, they are subject to change as the market and value is naturally dynamic.

The "estimate of market value" in the report is not based in whole or in part upon the race, color, or national origin of the present owners or occupants of the properties in the vicinity of the property appraised.

Report and Value Estimate

Report and value estimate are subject to change if physical or legal entity or financing differ from that envisioned in this report.

Management of the Property

It is assumed that the property which is the subject of this report will be under prudent and competent ownership and management.

Hazardous Materials

Unless otherwise stated in this report, the existence of hazardous substances, including without limitation, asbestos, polychlorinated biphenyls, petroleum leakage, or agricultural chemicals, which may or may not be present on the property, or other environmental conditions, were not called to the attention of nor did MPB REAL ESTATE, LLC become aware of such during their inspection. MPB REAL ESTATE, LLC had no knowledge of the existence of such materials on or in the property unless otherwise stated. MPB REAL ESTATE, LLC, however, is not qualified to test such substances or conditions. If the presence of such substances such as asbestos, urea formaldehyde foam insulation, or other hazardous substances or environmental conditions, may affect the value of the property, the value estimate is predicated on the assumption that there is no such condition on or in the property or in the proximity that it would cause a loss in value. No responsibility is assumed for any such conditions, nor for any expertise or engineering knowledge required to discover them.

Soil and Subsoil Conditions

Unless otherwise stated in this report, MPB REAL ESTATE, LLC does not warrant the soil or subsoil conditions for toxic or hazardous waste materials. Where any suspected materials might

be present, we have indicated in the report; however, MPB REAL ESTATE, LLC are not experts in this field and recommend appropriate engineering studies to monitor the presence or absence of these materials.

Americans with Disabilities Act (ADA)

"MPB REAL ESTATE, LLC has not made a specific compliance survey and analysis of this property to determine whether or not it is in conformity with the various detailed requirements of the Americans with Disabilities Act (ADA), which became effective January 26, 1992. It is possible that a compliance survey of the property together with a detailed analysis of the requirements of the ADA could reveal that the property is not in compliance with one or more of the requirements of the Act. If so, this fact could have a negative effect upon the value of the property. Since MPB REAL ESTATE, LLC has no direct evidence relating to this issue, we did not consider possible non-compliance with the requirements of ADA in estimating the value of the property."

Qualifications of the Analyst

QUALIFICATIONS OF THE ANALYST

Michael P. Berkowitz

MPB Real Estate, LLC, Inc. 1430 South Mint Street, Suite 102 Charlotte, North Carolina 28203 (704) 334-4686 FAX (704) 334-2759

EDUCATION AND CREDENTIALS

• Duke University

Major: Economics 1985-1989

• Central Piedmont Community College

R-1 -	Introduction to Real Estate Appraisal, 2002
R-2 -	Valuation Principles and Procedures, 2002
R-3 -	Applied Residential Property Valuation, 2002
G-1 -	Introduction to Income Property Appraisal, 2003

Bob Ipock and Associates

G-2 -	Advanced Income Capitalization Procedures, 2003
G-3 -	Applied Property Income Valuation 2004

• Appraisal Institute

appraisar institute	
520	Highest and Best Use and Market Analysis, 2004
Seminar	Rates, Multipliers and Ratios 2005
530	Advanced Sales Comparison and Cost Approaches 2006
Seminar	Apartment Appraisal, Concepts & Applications 2009
Seminar	Appraising Distresses Commercial Real Estate 2009
Seminar	Appraising Convenience Stores 2011
Seminar	Analyzing Operating Expenses 2011

AFFILIATIONS AND ACTIVITIES

• Association Memberships

North Carolina State Certified General Real Estate Appraiser, October 2006, Certificate No. A6169

RELATED EXPERIENCE

- Provided real estate consulting services for a variety of clients including real estate brokers, property owners and financial planners
- Performed financial feasibility studies for multiple property types including golf communities, and renovation projects.
- Developed plan for self-contained communities.
- Race Track expertise

APPRAISAL EXPERIENCE

A partial list of types of properties appraised include:

Retail Properties, Single and Multi-Tenant, Proposed and Existing

Office Single and Multi-Tenant Proposed and Existing

Mixed-Use Properties, Proposed and Existing

Industrial Properties, Warehouse, Flex and Manufacturing

Vacant Land

Condemnation

C-Stores

Race Tracks

CLIENTELE

Bank of America

Transylvania County

Cabarrus County

Mecklenburg County

City of Statesville

NC Department of Transportation

Henry County, GA

Town of Loudon, NH

First Citizens Bank

RBC Centura Bank

City of Charlotte

City of Concord

Union County

BB & T

Aegon USA Realty Advisors

Sun Trust Bank

First Charter Bank

Regions Bank

Charlotte Housing Authority

Alliance Bank and Trust

Broadway Bank

Duke Energy Corporation

Jim R. Funderburk, PLLC

Hamilton, Fay, Moon, Stephens, Steele & Martin

Senator Marshall A. Rauch

Perry, Bundy, Plyler & Long, LLP

Robinson, Bradshaw & Hinson

CSX Real Property

Baucom, Clayton, Burton, Morgan & Wood, PA

City of Mount Holly

Our Towns Habitat for Humanity

Parker, Poe, Adams & Bernstein, LLP

Central Carolina Bank

Southern Community Bank and Trust



November 16, 2017

Mr. Keith Markland Kimley-Horn and Associates, Inc. 2 Sun Court, Suite 450 Peachtree Corners GA 30092

Re: Mount Hope Site

Gould Digital Imaging 165' Balloon Test Report

My name is Michael Gould, and I am owner and operator of Gould Digital Imaging. Kimley-Horn and Associates hired Gould Digital Imaging to perform various aspects of photographic imaging work in connection with the development of Verizon Wireless' telecommunications services network in the Rowan County, NC area.

I have over eighteen years' experience working specifically with telecommunications companies including T-Mobile, Inc., AT&T Wireless, Verizon Wireless, Nextel, Alltel, Cricket, Sprint PCS, COMPASS Technology Services, Inc., Crown Castle International, Vertical Bridge, and American Tower Corporation in preparing photographic simulations of telecommunications towers. I have a Bachelors Degree in Art from St. Mary's College of Maryland; over twenty years of professional experience in the field of digital photographic enhancement and I have produced approximately 6,000 photographic simulations for Verizon Wireless, AT&T, T-Mobile, Inc., American Tower Corp., and other telecommunications services companies.

Kimley-Horn and Associates hired Gould Digital Imaging to perform a "165 foot Balloon Test" at Verizon Wireless' Mount Hope site on Rimer Road, in Salisbury, North Carolina. A balloon test is a visual reference of how tall a proposed structure would appear if constructed.

A ten foot long red blimp shaped helium balloon is filled and raised above the proposed site on a measured line to the height of the proposed structure and anchored to the ground at the proposed site.

At approximately 2:00pm on Wednesday, November 15th, 2017, the balloon was raised to a height of 165 feet to the bottom of the blimp and anchored in the leased area approximately 25 feet from the center due to the tree canopy.

The wind was calm and the balloon was flying directly above anchor throughout the entire test. The balloon was left aloft until 2:45pm.

I drove around the surrounding "area of affect" and took photographs from several adjoining properties and other points of potential visual impact. I deployed the use of a hand held GPS unit that indicated the bearing and distance I was from the balloon as I canvassed the area for any possible views of the balloon.

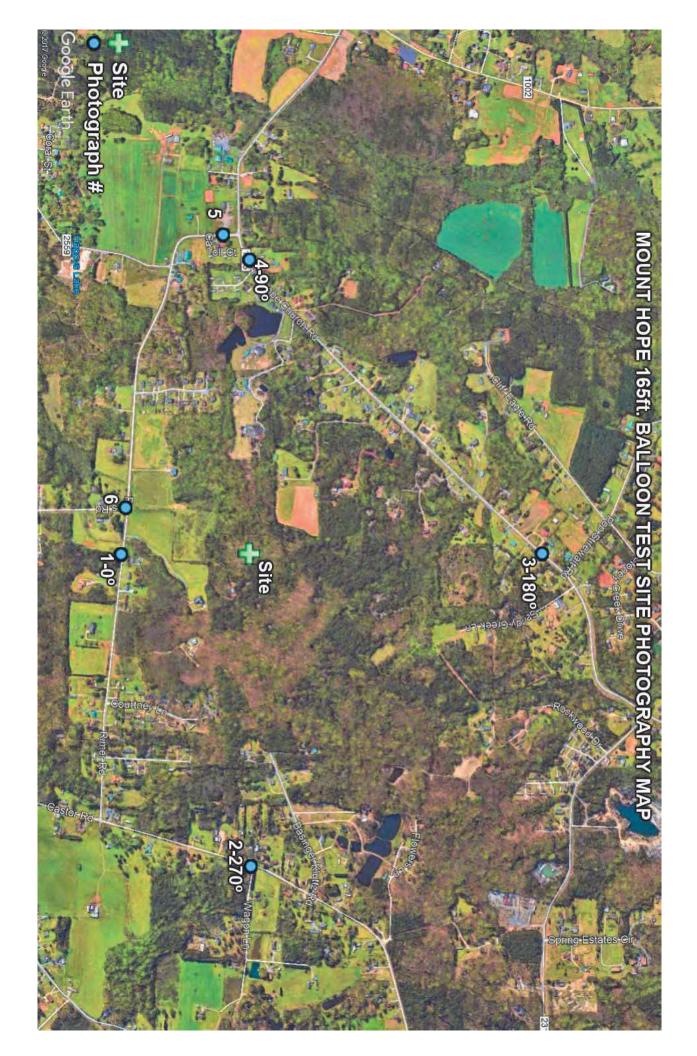
This report includes a site photography map denoting the location of the proposed tower and the locations of all photographs that were taken of the site as well as copies of the photographs.

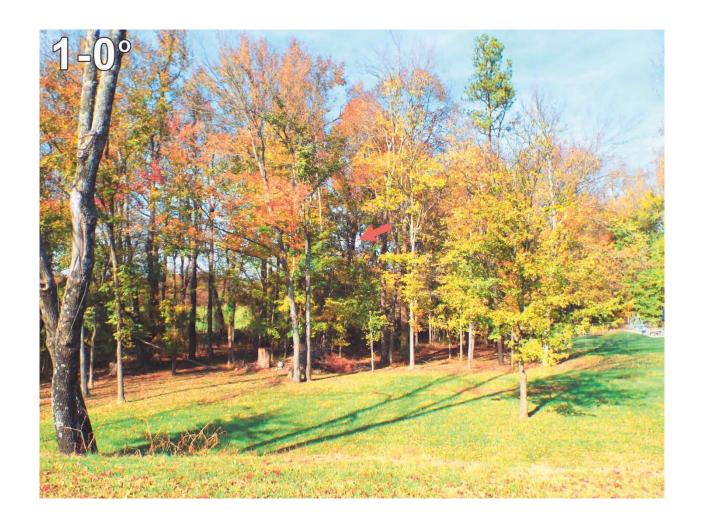
In my professional opinion, these photographs reflect to a reasonable certainty the anticipated projection of the height of the tower if constructed at the Mount Hope site. If you need any additional information, please do not hesitate to call me at (770) 617-2958 or e-mail at michael@goulddigitalimaging.com.

Sincerely,

Gould Digital Imaging

Michael D. Gould/Owner



























Cellco Partnership and its controlled affiliates doing business as Verizon Wireless

Federal Communications Commission

NEPA Review

May 18, 2017

S&ME, Inc. (S&ME)

Site Name:	Mount Hope (Site 3417357)
Site Type:	Raw Land-New Build, 169-foot Monopole Communications Tower Site
Site Address:	280 Rimer Road, Salisbury, Rowan County, NC 28146
Latitude / Longitude (NAD83):	N 35° 33′ 55.5″/ W 80° 29′ 5.8″
TCNS Number:	153551
E106 Filing Number:	0007706473
FCC Topics	Findings
Will the facility be located in an officially designated wilderness area?	No
Will the facility be located in an officially designated wildlife preserve?	No
Will the facility affect listed or proposed threatened or endangered species or designated critical habitats?	No
Will the facility affect districts, sites, buildings, structures or objects significant in American history, architecture, archeology, engineering or culture, that are listed, or eligible for listing, in the National Register of Historic Places?	No
Will the facility affect an Indian religious site?	No
Will the facility be located in a 100-year floodplain?	No
Will construction of the facility involve significant change in surface features (e.g. wetland fill, water diversion or deforestation)?	No
Will the preparation and filing of an Environmental Assessment (EA) be required?	No

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1.0 NEPA SCOPE SERVICES

1.1 INTRODUCTION

The National Environmental Policy Act (NEPA) of 1969 established provisions to ensure that all federal agencies evaluate the potential impacts to the environment of projects under their jurisdiction. The Council on Environmental Quality (CEQ) oversees the implementation of NEPA through the authorities of Title 40 CFR, Parts 1500-1508 which requires all federal agencies to develop rules for implementing NEPA and defines "major federal actions". Major federal actions are defined in Title 40 CFR, Part 1508.18 as actions that include new or continuing activities, including projects and programs entirely or partly financed, assisted, conducted, regulated, or approved by federal agencies.

The Federal Communications Commission (FCC) rules for implementing NEPA are found in Title 47 CFR, Part 1, Subpart I, rule sections 1.1301 to 1.1319. In addition, Section 106 of the National Historic Preservation Act of 1966, 36 CFR Part 800, regulates assessment of cultural resources for all federal undertakings. The Nationwide Programmatic Agreement for the Collocation of Wireless Antennas (47 CFR Part 1, Appendix B) and the Nationwide Programmatic Agreement Regarding the Section 106 National Historic Preservation Act Review Process (47 CFR Part 1, Appendix C) further stipulate the review process for cultural resources and amend 47 CFR, Part 1, Subpart I, rule section 1.1307(a)(4) for projects under FCC jurisdiction.

1.2 BACKGROUND AND PURPOSE

This NEPA Review was conducted pursuant to 47 CFR 1.1301-1.1319, as amended. The report includes the evaluation of project impacts to prehistoric and historic resources (archaeological sites, historic structures, and Indian religious sites), threatened or endangered species (protected listed, candidate, and critical habitat), migratory birds, wilderness areas, wildlife preserves, floodplains, and surface features (wetlands, water bodies and forested land).

The FCC rules and regulations also address project impacts to humans from tower lighting and radiofrequency radiation which are evaluated by Verizon Wireless, the FCC applicant, and are not part of this scope of work.

1.3 SCOPE OF WORK

This NEPA Review has been completed based upon Verizon Wireless-provided site information, the review of readily available information obtained from commercial services, government agencies, and/or other sources as described herein. Throughout this report, the term "the Site" will be used to refer to the proposed site location and associated facilities, access, and easements.

This NEPA Review identifies whether a proposed project will require the preparation and filing of an Environmental Assessment (EA) in accordance with FCC rules and

regulations. If any of the questions in Section 2.0 of this Review are found to be in the affirmative, an EA must be filed with the FCC to further evaluate the identified potential environmental impacts. In the event that this Review results in the preparation and filing of an EA, the FCC must issue a finding of no significant impact (FONSI) prior to proceeding with the proposed project.

1.4 LIMITATIONS

1.4.1 Scope of Activity

This NEPA Review is based upon the application of scientific principles and professional judgment to certain facts with resultant subjective interpretations. Professional judgments expressed herein are based on the facts currently available within the limits of the existing data, scope of work, budget and schedule. To the extent that more definitive conclusions are desired by Verizon Wireless than are warranted by the currently available facts, it is specifically S&ME (further referenced in this report as "the Consultant") intent that the conclusions and recommendations stated herein will be intended as guidance and not necessarily a firm course of action except where explicitly stated as such. The Consultant makes no warranties, expressed or implied, including, without limitation, warranties as to merchantability or fitness for a particular purpose. In addition, the information provided to Verizon Wireless in this report is not to be construed as legal advice.

1.4.2 Use of This Report

The Consultant is not engaged in environmental assessing and reporting for the purpose of advertising, sales promotion, or endorsement of any Verizon Wireless interests, including raising investment capital, recommending investment decisions, or other publicity purposes. Verizon Wireless acknowledges this report has been prepared for the exclusive use of Verizon Wireless and agrees that the Consultant's reports or correspondence will not be used or reproduced in full or in part for such purposes, and may not be used or relied upon in any prospectus or offering circular. Verizon Wireless also agrees that none of its advertising, sales promotion, or other publicity matter containing information obtained from this report will mention or imply the name of the Consultant.

Nothing contained in this report shall be construed as a warranty or affirmation by the Consultant that the Site and property described in the report are suitable collateral for any loan or that acquisition of such property by any lender through foreclosure proceedings or otherwise will not expose the lender to potential environmental liability.

2.0 NEPA REVIEW

2.1 SITE LOCATION AND PROJECT DESCRIPTION

The specific Site location information and project description are provided within the report cover page and in the Executive Summary. The Site is currently undeveloped land comprised of woodlands and surrounding residential properties. The areas surrounding the Site are currently residential and undeveloped land comprised of woodlands and agricultural lands. A Site Topographic Map and Site Plans are presented in Appendix A. The Consultant conducted a Site visit, and Site photographs are provided in Appendix B.

2.2 NEPA TOPICS

2.2.1 Wilderness Areas

Will the facility be located in an officially designated wilderness area?

No

Source: Site observations, U.S. Geological Survey (USGS) 7.5-Minute Series Topographic Quadrangle, review of U.S. Department of Interior (DOI) National Map (www.nationalmap.gov) and www.wilderness.net (results of National Atlas Map and wilderness lands website reviews included in Appendix C).

Finding(s): The proposed Site is not located in an officially designated wilderness area.

2.2.2 Wildlife Preserves

Will the facility be located in an officially designated wildlife preserve?

No

Source: Site observations, USGS 7.5-Minute Series Topographic Quadrangle, review of U.S. DOI National Map (www.nationalmap.gov) and the U.S. Fish and Wildlife Service (USFWS) (results of National Atlas map review and USFWS correspondence included in Appendix C).

Finding(s): The proposed Site is not located in an officially designated wildlife preserve.

2.2.3 Protected Species

Will the facility affect listed or proposed threatened or endangered species or designated critical habitats?

No

Source: Site observations and consultation with or project clearance from the USFWS and applicable state agency(s) (Appendix C).

Source: Site observations and consultation with or project clearance from the USFWS and applicable state agency(s) (Appendix C).

Finding(s): There are no federal or state listed threatened or endangered species or critical habitat present at the Site that would be adversely affected by the proposed project. See agency consultation or clearance documentation for additional details.

Verizon Wireless has included all feasible mitigating factors recommended by the USFWS in the Revised Guidelines for Communication Tower Design, Siting, Construction, Operation, Retrofitting, and Decommissioning (2013). Additionally, Verizon Wireless adheres to all current regulations regarding tower lighting as required by the Federal Aviation Administration (FAA).

2.2.4 Archaeological and Historical Resources

Will the facility affect districts, sites, buildings, structures or objects significant in American history, architecture, archaeology, engineering or culture that are listed, or are eligible for listing, in the National Register of Historic Places?

No

Source: Review of State Historic Preservation Office (SHPO) files, archaeological testing, public involvement, and Local Government and SHPO consultation (Appendix C).

Finding(s): Based on the information provided, there are no sites, structures or objects listed on, or determined eligible for listing on the National Register of Historic Places that will be adversely affected. See SHPO documentation for additional details.

In the event that archaeological materials are encountered prior to or during construction of the facilities, SHPO, tribes and other consulting parties must be contacted. Archaeological materials consist of any items, fifty years or older, which were made or used by man. These items include stone projectile points (arrowheads), ceramic sherds, bricks, worked wood, bone and stone, metal and glass objects, and human skeletal remains. These materials may be present on the ground surface and/or under the ground.

2.2.5 Indian Religious Sites

Will the facility affect Indian religious sites?

No

Source: Map location review, Indian Reservations in the Continental United States, Bureau of Indian Affairs Map, and consultation with federally recognized tribes (Appendix C).

Finding(s): Due to the nature of this undertaking little potential exists for effects to Indian Religious sites. Current land use in the surrounding area was considered. It was determined through this review and tribal consultation, as outlined in the NPA, that the above referenced project is unlikely to affect Indian religious sites.

In the event that archaeological materials are encountered prior to or during construction of the facilities, SHPO, tribes and other consulting parties must be contacted. Archaeological materials consist of any items, fifty years or older, which were made or used by man. These items include stone projectile points (arrowheads), ceramic sherds, bricks, worked wood, bone and stone, metal and glass objects, and human skeletal remains. These materials may be present on the ground surface and/or under the ground.

2.2.6 Floodplains

Will the facility be located in a 100-year floodplain?

No

Source: Site observations and Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM), Panel 3710565600J, June 16, 2009 (Appendix C).

Finding(s): No 100-year flood hazards are identified on the FIRM map for the proposed Site.

2.2.7 Surface Features

Will construction of the facility involve a significant change in surface features (e.g. wetland fill, water diversion, or deforestation)?

No

Source: Site observations, USGS 7.5-Minute Series Topographic Quadrangle, and USFWS National Wetland Inventory (NWI) map (Appendix C).

Finding(*s*): Due to the scope of the proposed project activities, the current Site conditions and review of applicable source data, significant changes in surface features such as wetland fill, water diversion or deforestation will not be required at the Site.

3.0 CONCLUSIONS

A NEPA Review of the proposed Mount Hope communications tower was performed by S&ME in conformance with the FCC rules and regulations for implementing NEPA; 47 CFR 1.1301-1.1319.

Based on the data obtained during the Site visit, the review of readily available information from commercial services, government agencies and/or other sources, the preparation and filing of an EA will not be required.

4.0 QUALIFICATIONS OF PERSONNEL

The professional qualifications of S&ME personnel listed below are presented in Appendix D.

Name	Discipline
Joseph Deangelis	Site Assessor
Darrin Peine	Natural Resources Specialist
Kimberly Nagle - Principal Investigator	Cultural Resources Specialist
Joseph Deangelis - Field Director	
Kimberly Nagle	Quality Assurance
Kristy Smedley	



November 19, 2021

J. Nick Beim Verizon Wireless 3651 Junction Blvd Raleigh, NC 27603

RE: Proposed 165' Sabre Monopole for Mount Hope, NC

Dear Mr. Beim,

Upon receipt of order, we propose to design and supply the above-referenced Sabre monopole for a Basic Wind Speed of 111 mph without ice and 30 mph with 1.5" ice, Structure Classification II, Exposure Category C, and Topographic Category 1, in accordance with the Telecommunications Industry Association Standard ANSI/TIA 222-G "Structural Standards for Steel Antenna Towers and Antenna-Supporting Structures".

When designed according to this standard, the wind pressures and steel strength capacities include several safety factors. Therefore, it is highly unlikely that the monopole will fail structurally in a wind event where the design wind speed is exceeded within the range of the built-in safety factors.

Should the wind speed increase beyond the capacity of the built-in safety factors, to the point of failure of one or more structural elements, the most likely location of the failure would be within the monopole shaft, above the base plate. Assuming that the wind pressure profile is similar to that used to design the monopole, the monopole will buckle at the location of the highest combined stress ratio within the monopole shaft, which can be placed at 50' or less from the top of the structure. This is likely to result in the portion above the highest stress leaning over and remaining in a permanently deformed condition. This would effectively result in a 50' fall radius. *Please note that this letter only applies to the above-referenced monopole designed and manufactured by Sabre Industries.*

Sincerely,

David Hill, P.E. Design Engineer II

AND HIMM