LAW OFFICES OF

SNYDER & SNYDER, LLP 94 WHITE PLAINS ROAD TARRYTOWN, NEW YORK 10591 (914) 333-0700 FAX (914) 333-0743 WRITER'S E-MAIL ADDRESS

NEW JERSEY OFFICE ONE GATEWAY CENTER, SUITE 2600 NEWARK, NEW JERSEY 07102 (973) 824-9772 FAX (973) 824-9774

Westchester office

REPLY TO:

msheridan@snyderlaw.net

August 24, 2022

NEW YORK OFFICE 445 PARK AVENUE, 9TH FLOOR NEW YORK, NEW YORK 10022 (212) 749-1448 FAX (212) 932-2693

LESLIE J. SNYDER ROBERT D. GAUDIOSO DOUGLAS W. WARDEN JORDAN M. FRY

DAVID L. SNYDER (1956-2012)

> Honorable Chair Loretta Taylor and Members of the Planning Board Town of Cortlandt 1 Heady Street Cortlandt Manor, New York 10567

> > RE: Homeland Towers, LLC and New York SMSA Limited Partnership d/b/a Verizon Wireless Special Permit and Site Plan Application to Install a Public Utility Personal Wireless Facility at the Property Known as 52 Montrose Station Road, Town of Cortlandt, NY

Hon. Chair Taylor and Members of the Planning Board:

We are the attorneys for Homeland Towers, LLC ("Homeland Towers") and New York SMSA Limited Partnership d/b/a Verizon Wireless ("Verizon Wireless") (collectively, "Applicants") in connection with a request for a special permit and site plan approval to install a public utility personal wireless facility ("Facility") at the above captioned property ("Property"). The Facility consists of a telecommunications tower ("Tower") with small panel antennas, together with equipment within a fence compound at the base thereof.

The Facility consists of a 140 foot monopole to be located toward the rear of the Property in a manner where the Facility will meet all of the setbacks of the Town of Cortlandt Code ("Town Code"). The Property consists of over 6 wooded acres and is currently used for non-residential purposes.¹ In accordance with Chapter 277 of the Town Code, the Town of Cortlandt ("Town") permits personal wireless facilities, such as the Facility, on the Property by special permit from the Town Planning Board.

We are in receipt of comments from the Town Consultant in this matter Henningson, Durham & Richardson ("HDR"), in a memo dated July 7, 2022 ("HDR Memo"). In response to

¹ An application for this Facility was first submitted on February 21, 2019 ("Initial Design") to the Planning Board and the Facility was revised/updated ("Current Design") in a submission to this Board dated August 18, 2021. As noted above, the Facility now consists of a 140 foot monopole, rather than the previously proposed lattice tower, so that its footprint has been reduced. The Facility was also relocated to the rear of the Property in a manner where the Facility will now meet all of the setbacks of the Town Code. Moreover, the Tower's new location is 34.5 feet lower in ground elevation than the original location so that it will be lower in appearance.

the comments in the HDR Memo, please see the responses below and documents submitted herewith.

Response to the Comments in the HDR Memo:

Response to Comment "A" Regarding a Second Balloon Test

Comment: HDR recommends that a new balloon test and updated visual resource evaluation be conducted. A balloon test was conducted in May 2019 during "off-leaf" conditions and a visual resource evaluation report was prepared (dated April 27, 2019). That report included 2 viewshed maps, 29 viewpoints (VPs), and 7 photosimulations. However, the simulations provided were for a then-proposed lattice tower design. The August 2019 visual submittals are relevant for the current design; however, as the balloon test was conducted over three years ago, and because the tower location has been shifted, a second balloon test is recommended.

Response: A second balloon test ("Second Balloon Test") was discussed with this Board at its meeting on July 12, 2022 and was scheduled for July 23, 2022. The Second Balloon Test was conducted on July 23, 2022 by Homeland Tower's visual consultant, Saratoga Associates ("Saratoga").

<u>Comment</u>: In addition to the 29 VPs examined during the first balloon test and in the 2019 visual resources evaluation report, the following VPs are suggested to be added for the follow-on balloon test based on a review of the 2019 visual resources evaluation and map resources of the area:

o Near VP 28 – additional photos from the Mount Florence historic district (having numerous listed buildings) – along Maple Ave. This area should be discussed in the revised visual resources evaluation.

o North of VP 28 – there is a second historic district (Villa Loretto)

<u>Response</u>: During the Second Balloon Test, Saratoga took photos from the locations requested by HDR, which included locations from the prior Visual Resource Evaluation report prepared in connection with first balloon test for this Facility in 2019 ("2019 VRE"), as well as, additional locations requested by HDR. See the list/chart of the photo locations on Page 10 of the Visual Resource Evaluation report ("2022 VRE") prepared by Saratoga based on the Second Balloon Test, attached hereto as Exhibit 1.

Comment: It is noted that during the balloon test, additional VPs may be identified in the field. HDR will work with the applicant representatives to plan for the follow-on balloon test and keep the Planning Department informed (i.e., methods to be used to float balloons; field schedule; etc.). HDR will coordinate with the applicant and the Planning Department leading up to field work and establish a mobile phone / email chain to confirm if the balloon test is "on" or "off" based on the weather forecast. Wind / weather forecasts are not generally available more than 36 hours in advance, so a phone / email chain is important to keep all parties appraised. It is possible that Board members may want to meet the applicant's visual assessment team in the field during the balloon test to discuss possible points of visibility and the means and methods of collecting photos and notes.

<u>Response</u>: No response is required for this comment as the Balloon Test occurred on July 23, 2022. Notwithstanding, the Applicants and its consultants discussed the Second Balloon Test with the Planning Board at its July 12, 2022 meeting, and coordinated with the Town Planning Department and HDR regarding the details of the Second Balloon Test.

Comment: The applicant should confirm if the balloon needs to be raised in a different (off-set) location than as proposed on the current Drawings (considering clearing up through existing tree canopy). Confirmation if a crane (vs. tether float) is proposed as part of the field test should also be provided, along with means for monitoring the balloon for the duration of the field test to (a) document times when the balloon may not have been flown to maximum height, and (b) be prepared to replace the balloon if problems are encountered. An additional, alternate color balloon may be added to the scope to allow for continued assessment of alternate tower height and potential co-location. A date of **Saturday July 23, 2022**, has tentatively been identified for the balloon test (see draft notice in Attachment A of this memo, should the Town require advertising of the balloon test in the local newspaper of record and/or on its website).

<u>Response</u>: No response is required for this comment as the Second Balloon Test occurred on July 23, 2022. Notwithstanding, as noted above, the Applicants and its consultants discussed the Second Balloon Test with the Planning Board at its July 12, 2022 meeting, and coordinated with the Town Planning Department and HDR regarding the details of the Second Balloon Test, including, but not limited to, size, color, height and duration of the Second Balloon Test.

<u>Comment:</u> It is noted that prior to the balloon test, the contents of the updated visual resources evaluation report should be scoped (i.e., photosimulation development, including alternate tower configurations and heights; updated viewshed maps; utilization of the NYSDEC Visual Assessment Policy and other guidance). Confirmation and mapping of hiking trails, cultural resources, historic sites, scenic roadways, and other resources that may be in the viewshed should be included in the updated report. The need for separate notices/outreach to specific parties [e.g., Westchester County] in advance of the balloon test and as a supplement to the above-described noticing should be discussed with the Planning Department. HDR will make field observations on the day of the balloon test to confirm the balloon float and set-up and areas from where the balloon is and is not visible.

Response: No response is required for this comment as the Second Balloon Test occurred on July 23, 2022. Notwithstanding, as noted above, the Applicants and its consultants discussed the Second Balloon Test with the Planning Board at its July 12, 2022 meeting, and coordinated with the Town Planning Department and HDR regarding the details of the Second Balloon Test.

Comment: The scope, logistics, and schedule for a follow-on balloon test at 52 Montrose Station Road will be discussed further at the July 12, 2022, Planning Board meeting.

Response: No response is required for this comment as the Second Balloon Test occurred on July 23, 2022. Notwithstanding, as noted above, the Applicants and its consultants discussed the Second Balloon Test with the Planning Board at its July 12, 2022 meeting, and coordinated with the Town Planning Department and HDR regarding the details of the Second Balloon Test.

<u>Response to Comment "B" regarding a Visual Resources Evaluation based on the Second</u> Balloon Test

<u>Comment:</u> With the tower location and elevation change, updated viewshed maps (modeled visibility with bare topography, and with vegetation / land cover) should be provided prior to the balloon test. All VPs (prior, and the ones noted above) should be shown on the maps.

Response: As noted above, the 2022 VRE prepared by Saratoga based on the Second Balloon Test is attached hereto as Exhibit 1. Included in the 2022 VRE are Viewshed Maps (modeled visibility with bare topography, and with vegetation / land cover), which were updated from the 2019 VRE. The viewshed maps included all viewpoints requested by HDR, including those from the 2019 VRE. Pursuant to HDR's request, a copy of the Viewshed Maps were provided to HDR and the Town Planner prior to the Second Balloon Test.

<u>Comment</u>: Following the balloon test, the field notes and VP photos collected will be discussed with the applicant, HDR, and the Planning Department. The number of photosimulations and VPs to use, tower configurations / designs to depict, and co-location scenarios will be scoped for the future visual resources evaluation submittal. These may include:

o Photosimulations of the tower (top half; near field and distance views) and the ground-based equipment area (including proposed fencing and tree removal / clearing) will be requested. The photosimulations submitted with the initial tower design (August 2019) will be reviewed to streamline the supplemental photosimulation needs. 1-2 simulations will be requested using identical views from the 2019 assessment so that changes in monopole design, location, and base elevation can be better assessed from a visual impact standpoint.

Response: Photo simulations from all of the photo locations where the balloon was visible are included in the 2022 VRE. See Figures C-1 through C-18 of the 2022 VRE attached hereto as Exhibit 1. All areas of the Facility that would be visible in such photos were simulated. The photo simulations included 4 locations from which simulations were also done in the 2019 VRE, so that changes in monopole design, location, and base elevation can be better assessed from a visual impact standpoint.

<u>Comment</u>: Alternate monopole colors (e.g., conventional grey galvanized and brown) and scenarios with and without co-location will be requested.

<u>Response</u>: Pursuant to HDR's request, for each photo where the balloon was visible, the 2022 VRE contains two simulations each using a different monopole color, (specifically, conventional grey galvanized and brown). See Figures C-1 through C-18 of the 2022 VRE attached hereto as

Exhibit 1. As there are no carriers other than Verizon Wireless that are a part of this application, the simulations show Verizon Wireless' proposed Facility only.

<u>Comment:</u> Although not always a viable option for many tower locations, photosimulations of a stealth tree design may be requested for this site based on its setting and modified location to a slightly lower grade.

<u>Response</u>: Based on prior discussions with the Town, it is our understanding that stealth tree poles are not an acceptable design for wireless towers in the Town.

Comment: Visual Resources Evaluation report –

o The updated visual resources evaluation report should include the Blue Mountain Reservation trails, and specifically discuss the areas within the Reservation where the 140 ft monopole is and is not visible (locations and acreage) based on desktop models.

Response: The 2022 VRE also includes requested details regarding the Blue Mountain Reservation, including trails, and area[s] within the Reservation where the 140 ft monopole is and is not visible. According to the 2022 VRE, the Facility was not visible from the Blue Ridge Mountain Reservation except "from a brief segment of the utility road where the road passes within a cleared natural gas transmission corridor." See Pages 6-7 of the 2022 VRE, attached hereto as Exhibit 1. See also the Visual Impact Assessment Maps, Photos 7, 8 and 30 and Figures C13, C14 and C15 of the 2022 VRE. As detailed in the 2022 VRE, "it is clear the Facility will not cause a diminishment of the public enjoyment and appreciation of any scenic or historic resource, or one that impairs the character or quality of such a place. As such, the proposed Facility will not result in any adverse visual impact to the area." See Page 12 of the 2022 VRE, attached hereto as Exhibit 1.

<u>Comment:</u> All field equipment and methods utilized during the balloon test (GPS to confirm tower and photo locations; confirmation of balloon float height; etc.), balloon colors and diameters, camera / lens specification, and the software and tools used to develop the viewshed maps and photosimulations for the updated evaluation should be described.

Response: Details of the field equipment and methods utilized during the balloon test (GPS to confirm Tower and photo locations; confirmation of balloon float height; etc.), balloon colors and diameters, camera / lens specification, and the software and tools used to develop the viewshed maps and photo simulations for the updated evaluation are included in the 2022 VRE. See Pages 8, 9, 10 and 11 of the 2022 VRE attached hereto as Exhibit 1.

Comment: Photo examples from similar Homeland projects (conventional and stealth tree monopoles) should be submitted, including the ground-based equipment areas. For the stealth tree option, typical branch density, length of branch zone, and taper should be apparent in the examples provided.

Response: It is respectfully submitted that the photo simulations included in the 2022 VRE indicate how the Facility will appear at the proposed location. See Figures 1-18 of the 2022 VRE attached hereto as Exhibit 1. Moreover, as noted above, based on prior discussions with the Town,

it is our understanding that stealth tree poles are not an acceptable design for wireless towers in the Town.

<u>Comment</u>: It is requested that updated viewshed maps (bare earth and with vegetation / land cover added) with all proposed VPs (29 initial and the additional ones noted above) be presented for discussion at the July 12, 2022 Planning Board meeting.

Response: No response is required for this comment as the Second Balloon Test occurred on July 23, 2022. Notwithstanding, as noted above, the Applicants and its consultants discussed the Second Balloon Test with the Planning Board at its July 12, 2022 meeting, and coordinated with the Town Planning Department and HDR regarding the details of the Second Balloon Test.

Response to Comment "C" Inventory of Project Changes

Comment: The Verizon application was first reviewed in 2019 by the Planning Board. To better understand the re-design that is now proposed vs. the initial proposal, the information in the below Table should be reviewed by the applicant representatives with clarifications and supplemental information inserted and/or provided in a separate narrative to provide a side-by-side comparison.

<u>Response</u>: Attached hereto as <u>Exhibit 2</u> is a structural letter, dated August 10, 2022 ("Structural Letter") from Scherer Design Group ("SDG"). Included as a part of the 2022 Structural Letter is the Table requested by HDR which has be completed by SDG.

Additionally, Sheet Z-13 of the plans, prepared by Scherer Design Group ("SDG"), dated August 10, 2022 ("August 2022 Drawings") and submitted herewith, also contains a table and details, which shows the changes between the Initial Design and the proposed Current Design.

Response to Comment "D" RF Justification (C-Squared Report)

Comment: RF Reports and data were submitted by C-Squared with the initial application filing (report dated February 20, 2019, including drive test data, existing and proposed cell site information, and coverage maps) and in August 2021 in response to Town comments. Based on the information provided, a gap in Verizon service has been depicted for the site area. To confirm the RF justification information, updated responses are requested as noted in the below bullets.

o The applicant and its RF Engineer should confirm that the Tables of Existing and Proposed Verizon cell sites and the low-band and high-band Verizon coverage maps submitted prior are inclusive of all current existing and approved sites in the search area. The table listing these sites within the report should be updated if necessary, and any updates to the current existing / proposed Verizon cell sites should be added to the coverage maps. If there are no updates required, the RF Engineer shall describe how the information in the 2019 and 2021 reports was confirmed to be representative of Verizon's current network conditions in the area.

Response: Attached hereto as Exhibit 3 is an updated report from Verizon Wireless' RF consultant C Squared Systems, LLC ("C Squared"), dated August 19, 2022 ("C Squared 8.2022 Report"), which includes an updated Table of Existing and Proposed Verizon cell sites, as several of the "proposed" sites from the prior report are now "existing." See the "Existing and Proposed Sites" table attached to the C Squared 8.2022 Report as Exhibit A. The C Squared 8.2022 Report also confirms that "Verizon Wireless has no new sites that are currently contemplated in" a 2-3 year range within the Town or within 2 miles from the proposed site.

The C Squared 8.2022 Report also contains coverage maps, attached as Exhibit B thereto, "depicting: (i) the existing coverage from the surrounding sites ("Existing 750 MHZ LTE Coverage") and, (ii) existing and proposed coverage, with the Facility included ("Existing & Proposed 750 MHZ LTE Coverage")." See Page 1 of the C Squared 8.2022 Report and Exhibit B thereto. The C Squared 8.2022 Report also provides that "the existing and proposed coverage has not changed since C Squared's report dated August 12, 2021... [and that] [s]uch maps have merely been updated to include some existing site locations and identifiers."

<u>Comment:</u> The Verizon frequencies should be confirmed and listed to reflect what is currently proposed. 5G services, if proposed, should be noted. Renewed or updated FCC licenses for all proposed Verizon operation frequencies – if different than earlier submittals - should be submitted for the file. Specification and model numbers for all proposed Verizon antennas, RRH units, and other tower-mounted equipment should be updated from prior filings, if necessary to reflect the current proposal.

<u>Response</u>: Verizon Wireless' applicable FCC licenses for all proposed frequencies are attached to the C Squared 8.2022 Report as Exhibit C. Additionally, Page Z-8 of the August 2022 Drawings includes specifications and model numbers for all proposed Verizon Wireless antennas, RRH units, and other \Tower-mounted equipment.

<u>Comment:</u> HDR understands that the need for the tower site (and Verizon service) is predominately based on coverage, based on a review of the C-Squared report. It is requested that the applicant confirm if increased capacity / densification for Verizon's local area network is also an objective. If so, capacity charts for surrounding cell sites should be provided.

Response: C Squared, in the C Squared 8.2022 Report, confirms the RF justification information previously submitted. Specifically, C Squared confirmed that "[a]s previously stated, the need for the site is driven by coverage" due to an "existing significant gap in coverage in the vicinity of the Site" and that the "proposed Facility will provide coverage to that existing significant gap." See Page 2 of the C Squared 8.2022 Report attached hereto as Exhibit 3.

Comment: Verizon should update the longer-range (2-3 year) communications facilities plan for the Town, if any new contemplated sites within the Town or 2 miles from the site proposed at 52

Montrose Station Road have been identified since the prior RF justification submittals. Verizon should also inform the Planning Board of its conceptual plans to roll-out 5G operations in the Town.

<u>Response</u>: On Page 2 of the C Squared 8.2022 Report, attached hereto as Exhibit 3, C Squared confirms that "Verizon Wireless has no new sites that are currently contemplated in" a 2-3 year range within the Town or within 2 miles from the proposed site.

Comment: It is noted here that RF justification information is under review by HDR.

Response: No response is necessary to this comment.

Response to Comment "E" Drawings and Specifications

Comment: The drawing set dated 8-5-2021 should be updated to reflect Homeland as the tower owner. All relevant maintenance, recertification, and other requirements of Town Code Chapter 277 should be added as notes. Maintenance of the access drive and visual aspects of the facility based on the approved ("final") site plan should also be added to the notes.

Response: Submitted herewith are the August 2022 Drawings, prepared by SDG, which now reference Homeland Towers. Additionally, requirements of Town Code Chapter 277 are included on Page Z-3 of the August 2022 Drawings. Moreover, a note regarding the maintenance of the access drive and visual aspects, including inspections, of the Facility has been added to the notes. See Note 16 on Page Z-1 of the August 2022 Drawings.

<u>Comment:</u> Conceptually, if there is known interest in co-location at the site by other carrier(s) such as T-Mobile, AT&T, or DISH Wireless, information for those carriers can be added to the Drawings in terms of co-location height, antenna and ground-based equipment specifications, and location of ground-based equipment in the proposed fenced compound at the tower's base. At minimum, potential co-location scenarios should be added to one of the Drawing x-sections of the monopole. [Co-location interest by other carriers – if known at this time – should be noted in the responses-to-comments.]

Response: Although Verizon Wireless is the only carrier that is a part of the application, another carrier has expressed interest and, therefore, generic details for another carrier has been added to the August 2022 Drawings, including co-location height and location of ground-based equipment in the proposed fenced compound at the Tower's base. See Pages Z-4, Z-5 and Z-6 of the August 2022 Drawings submitted simultaneously herewith.

<u>Comment</u>: For reference and comparison to the proposed conventional monopole design, a stealth tree design – with Verizon and potential co-location – should be added as a new cross-section image in the Drawing set (allowing side-by-side comparison).

<u>Response</u>: As noted above, based on prior discussions with the Town, it is our understanding that stealth tree poles are not an acceptable design for wireless towers in the Town.

Comment: The comments submitted on March 11, 2019 and September 25, 2019, from the Town Department of Technical Services should be confirmed to be incorporated into the Drawing set. It is understood that updates to the 8-5-2021 ("latest") Drawings set will need to be made (e.g., tree survey, tree removal, tree protection plan; add soil erosion and sediment control measures; add material stockpiling / staging plan; add profile view for length of access drive – existing and proposed improvements– along with spec of gravel / bedding material proposed).

Response: Responses to the relevant comments submitted on March 11, 2019 and September 25, 2019, from the Town Department of Technical Services were already incorporated in prior submissions, including prior drawings on which the August 2022 Drawings is based. Additionally, submitted herewith are the August 2022 Drawings, which include and updated tree removal plan (See Page Z-12), and the location of the proposed access road (See Pages Z-3 and Z-12). Moreover, as indicated on Page 2 of the 2022 Structural Letter, attached hereto as Exhibit 2, "[r]oad construction shall at all times minimize ground disturbance and vegetation-cutting [and] [r]oad grades shall closely follow natural contours to assure minimal visual disturbance and reduce soil erosion potential." The remaining requested details will be submitted and reviewed in the future as part of the Building Permit phase of the project, should the current application be approved.

Comment: Specification for the proposed 20 kW diesel emergency back-up generator should be added. Sound attenuation and intrinsic fuel containment / overfill protection should be included in the selected generator model.

Response: Specifications for the proposed 50 kW diesel emergency back-up generator (previously a 20kw generator was proposed) is included on the August 2022 Drawings. <u>See</u> Page Z-9 of the August 2022 Drawings.

Comment: Lighting detail (for ground-based equipment area) should be provided in the Drawings.

Response: A detail showing the "ISO Foot Candle Plot," indicating the limited amount of light proposed in connection with the ground-based equipment area of the Facility, is now included as Detail 3 on Page Z-7 of the August 2022 Drawings submitted simultaneously herewith. Such lighting is proposed to only be used only during the maintenance of the Facility.

Comment: Add notes that state that maintenance of the full extent of the access drive will be conducted by the applicant over the long-term, to safely accommodate access by the applicant, utility and fuel delivery companies, and Town officials including fire and emergency services vehicles. This includes periodic inspection and maintenance, clearing of snow, ice, or other impediments. The location of the nearest hydrant should be indicated (depiction on DWG and/or note to be added). If any additional fire suppression is included as part of the proposed cell site layout, please indicate.

Response: A note indicating that the maintenance, including "periodic inspection and maintenance, clearing of snow, ice, or other impediments", of the full extent of the access drive will be conducted by the Applicants, "to accommodate access by the applicant, utility and fuel delivery companies, and Town officials including fire and emergency services vehicles." <u>See</u> the Note 16 on Page Z-1 August 2022 Drawings submitted simultaneously herewith. The location of the nearest hydrant is noted in 1/Z-3 of the August 2022 Drawings.

<u>Comment</u>: DWGs Z5 and Z6. Add background tree line and ground surface profile to the crosssection views. For all 4 cross-sections, the length of profile shown should be extended to 100 ft in both directions.

<u>Response:</u> The existing tree line and ground surface in the area of the Facility, as they relate to the proposed location of the Facility, are shown in the photo simulations C-7, C-8 and C-9 and C16, C-17 and C-18 from the 2022 VRE, attached hereto as Exhibit 1.

Response to Comment "F" RF Emissions

Comment: An RF Emissions report was provided as part of the initial filings (Pinnacle Telecom Group, dated December 19, 2018). The applicant should confirm that all proposed Verizon frequency bands are included in the RF emissions analysis. The Verizon frequencies should be confirmed and listed to reflect what is currently proposed. 5G services, if proposed, should be noted. The RF emissions report should be checked to confirm that the equipment assumptions (number and type of Verizon antennas) and analyses are based on the Verizon equipment included on the most-recent Drawings and in the RF Justification reports. Updates to the RF Emissions report, the Drawings, and/or the RF Justification reports should be made so that the information is consistent.

Response: Attached hereto as Exhibit 4 is an updated RF Emissions Report from Pinnacle Telecom Group, dated July 19, 2022 ("2022 Pinnacle Report"). The 2022 Pinnacle Report is based on Verizon Wireless' Current Design, including proposed frequencies and number and type of antenna. The 2022 Pinnacle Report provides, on Page 14 therein, that its results "provide clear demonstration of [the Facility's] compliance with the FCC MPE limit." Moreover, as noted above, Verizon Wireless' applicable FCC licenses for all Verizon Wireless frequencies are attached to the C Squared 8.2022 Report as Exhibit C, which report is attached hereto as Exhibit 3.

<u>Comment</u>: It should be confirmed that high-frequency ("mmWave") 5G services are not proposed as part of this application.

Response: As noted above, the 2022 Pinnacle Report, attached hereto as Exhibit 4, includes all of the proposed Verizon Wireless frequency bands and Verizon Wireless' applicable FCC licenses for all proposed Verizon Wireless operation frequencies are attached to the C Squared 8.2022 Report as Exhibit C, which report is attached hereto as Exhibit 3.

<u>Comment</u>: Co-location by 3 additional wireless carriers (in addition to Verizon; speculative at this time) should also be included in the RF emissions analyses to evaluate potential co-location scenarios.

<u>Response:</u> The 2022 Pinnacle Report includes other speculative additional carries (AT&T, DISH and T-Mobile). As noted above, even when incorporating all of the requested information, including the aforementioned speculative additional carriers, the 2022 Pinnacle Report provides that its results "provide clear demonstration of [the Facility's] compliance with the FCC MPE limit." <u>See</u> Page 14 of the 2022 Pinnacle Report attached hereto as Exhibit 4.

Response to Comment G Structural Analysis

Comment: Although a full structural and foundation analysis would need to be submitted and reviewed in the future as part of the Building Permit phase of the project (should the current application be approved), descriptions of geotechnical borings to assess subsurface conditions and inform the foundation design; potential construction methods (dewatering; type(s) of foundation construction options; possibility of rock blasting; grading for equipment slabs and access road improvements; material handling) should be provided at this time to supplement the February 8, 2019, structural certification letter and the information provided on the Drawings.

Response: As noted above, attached as Exhibit 2 is the 2022 Structural Letter, which supplements the prior structural certification letter, dated February 8, 2019. The 2022 Structural Letter confirms that the Facility,

"will be designed to meet the ANSI/TIA-222-H 'Structural Standard for Antenna Supporting Structures, Antennas and Small Wind Turbine Support Structures' and all county, state, and federal structural requirements for loading, including wind and ice loads. The tower will be designed to support additional co-locators. Moreover, same will be designed to meet all applicable provision of the Town Code Chapter 277, to the extent necessary."

<u>See</u> Page 1 of the 2022 Structural Letter attached hereto as Exhibit 2. As indicated in the HDR Memo, it is understood that "a full structural and foundation analysis would need to be submitted and reviewed in the future as part of the Building Permit phase of the project (should the current application be approved)." <u>See</u> Page 9 of the HDR Memo. To that end, as noted on Page 1 of the 2022 Structural Letter,

"Any descriptions of geotechnical borings to assess subsurface conditions and inform the foundation design will be provided by tower manufacturer and completed once site plan approval is granted. Additionally, the potential construction methods (dewatering; type(s) of foundation construction options; possibility of rock blasting; grading for equipment slabs and access road improvements; material handling) will be confirmed by the contractor for the project once the site plan has been approved and the tower information and foundation design confirmed." **<u>Comment:</u>** An example monopole specification / vender cut sheet from a similar Homeland project - showing structural elements, typical welded sections, monopole diameter / taper, and other information - should also be provided as a reference.

Response: As indicated on Page 2 of the 2022 Structural Letter attached hereto as Exhibit 2, "[m]onopole specifications, cut sheet, structural element details, typical welded sections, diameter, taper, and other information will be provided and submitted during the building permit process after site plan approval."

As detailed above, Verizon Wireless has addressed comments provided by the Town's consultant HDR in the HDR Memo. We look forward to discussing this matter this with the Planning Board at the September 6, 2022 public hearing for this matter.

If you have any questions, please call me or Leslie Snyder at (914) 333-0700.

Respectfully submitted, Snyder & Snyder, LLP

1/2 By: _____

Michael P. Sheridan

Enclosures MS:ka cc: Verizon Wireless z:\ssdata\wpdata\ss4\wp\newbann\maybeck\cortlandtzoning\hltresponseltr.v2.fin.docx

Exhibit 1



Proposed Wireless Telecommunications Facility

Site Name: Cortlandt 2 (NY-057) 52 Montrose Station Rd Cortlandt, NY 10567

VISUAL ASSESSMENT



Prepared for: Homeland Towers, LLC 9 Harmony Street, 2nd Floor Danbury, CT 06810

August 18, 2022

HOMELAND TOWERS

Landscape Architects, Architects, Engineers and Planners, P.C. ©Copyright All Rights Reserved Saratoga Associates

Homeland Towers, LLC. and New York SMSA Limited Partnership d/b/a Verizon Wireless seek special permit approval from the Town of Cortlandt Planning Board to construct a wireless telecommunications facility (the "Facility") on property at 52 Montrose Station Road ("host property" or "site"). To address issues of potential visual impact, Saratoga Associates, Landscape Architects, Architects, Engineers, and Planners, P.C. was retained to conduct a Visual Resource Assessment ("VRA") of the proposed project.

The viewshed for this VRA extends to a two-mile radius from the Facility (hereafter referred to as the "2-mile viewshed area"). Viewshed analysis demonstrates that the Facility will be substantially or completely screened by existing woodland vegetation beyond a radius of 1-mile (refer to Figure A2 in Appendix A herein). As such, assessment of the potential impact of the Facility on specific visual resources is largely focused on viewpoints within a 1-mile radius ("1-mile VRA study area") of the Facility.

PROJECT DESCRIPTION

The Facility will be located at 41° 16' 11.15" N, 73° 53' 48.26" W ("Facility site"). The 6.1± acre host property is identified in Town of Cortlandt tax records as tax parcel 44.07-1-4.

The Facility includes the construction of a 140-foot-tall galvanized steel monopole type telecommunications tower designed to support collocation. The telecommunications tower will be located within a fenced enclosure. Associated ground equipment will be within an approximately 930 square foot fenced compound. Access to the Facility site will be from a new access drive leading to Montrose Station Road.

At the request of the Town of Cortlandt this analysis also considers the use of a brown colored monopole designed to minimize visual contrast with surrounding woodland vegetation. Photo simulations illustrating the visual characteristics of the brown color monopole alternative, as well as, the proposed steel galvanized finish are provided in Appendix C.

2019 TOWER PROPOSAL

An application for a telecommunications tower on this same property was made by Verizon Wireless in 2019 ("2019 tower proposal"). The 2019 tower proposal was similar to the current tower design with minor differences. The 2019 tower proposal, also 140 feet tall, was located approximately 100 feet south of the currently proposed position. The 2019 tower proposal was situated at a higher base elevation resulting in a top elevation approximately 34.5 feet higher than the currently proposed Facility. The 2019 tower proposal was a galvanized steel lattice frame design as compared to the currently proposed galvanized monopile tower design.

A visual assessment report (dated August 27, 2019) was prepared by Saratoga Associates for the 2019 tower proposal. As might be expected with both projects being similar in location and height, the findings of the 2019 visual analysis are substantially the same as findings of this visual assessment report. However, given the currently proposed tower has a top elevation approximately 35 feet lower than the 2019 tower proposal, visual analysis demonstrates that the Facility as currently proposed results in small reduction in affected area on the viewshed map and a decrease in the visible top of tower elevation as compared to the 2019 tower proposal.

LANDSCAPE SETTING

The Facility is proposed within the Town of Cortlandt, NY (2021 estimated population 42,092¹). The 2-mile viewshed area is largely suburban in character comprised of low to moderate density (i.e., 1 to 5+ acre) single-family residential lots and undeveloped woodland open space.

The topography within the 2-mile viewshed area is characterized by a rolling and often steeply sloped landscape. The tree canopy occupies approximately 5,842 acres of the 8,041-acre 2-mile viewshed area (72.7%).²

The host property is zoned R-40 (Residence – 40,000 square foot lot) as defined by the Cortlandt Code. The host property is substantially wooded. Built structures include an occupied caretaker residence, horse stables, multi-function building and riding corrals.

Montrose Station Road is a dead-end street terminating at a cul-de-sac at the Blue Sky Stables (host property).

The host property is directly adjacent to the 1,538-acre Blue Mountain Reservation, a Westchester County Park.

VIEWSHED ANALYSIS

Viewshed mapping identifies the limited geographic area within which there is a relatively high probability that some portion of the Facility could be visible within the 2-mile viewshed area.

One viewshed overlay was prepared defining the area within which visibility of the Facility is theoretically possible considering the screening effect of intervening topography only. This "bare earth" condition identifies the maximum potential geographic area within which further investigation is appropriate. A second viewshed overlay was prepared illustrating the screening effect of existing mature vegetation and buildings. The more realistic "land cover" condition identifies the geographic area where one would expect to be substantially screened by intervening forest vegetation.

¹ https://www.census.gov/quickfacts/fact/table/cortlandttownwestchestercountynewyork/PST045218

² Tree cover calculations are based on areas with 50% or greater tree canopy coverage within 30-meter x 30-meter grid cells as presented in the National Land Cover Database (NLCD) 2011 Percent Tree Canopy dataset. https://viewer.nationalmap.gov/basic/#productSearch

Global Mapper 23.0 GIS software was used to generate viewshed areas based on publicly LiDAR data acquired from the NYS GIS Clearinghouse. A digital surface model (DSM) was created from the LiDAR LAS data points. The DSM captures the natural and built features of the earth's surface. Using Global Mapper's viewshed analysis tool, the proposed Facility location and height were input and a conservative offset of 5' 9" was applied to account for the observer's eye level. The resulting viewshed identifies grid cells with a theoretical line-of-sight to the Facility high point (i.e., 550.5 feet AMSL).

It is noteworthy that untrained reviewers often misinterpret "bare earth" condition viewshed maps to represent wintertime, or leafless condition visibility. In fact, deciduous woodlands provide a substantial visual barrier in all seasons. The land cover viewshed map is substantially representative of both leaf-on and leaf-off seasons. Most importantly, the bare earth condition map is provided only to assist experienced visual analysts identify the maximum potential geographic area within which further investigation is appropriate. Such bare earth viewshed maps are generally not appropriate for public interpretation, and do not represent visibility in leafless conditions.

By themselves, the viewshed maps do not determine how much of the proposed Facility would be visible above intervening landform, structures or vegetation (e.g., 100%, 50%, 10% etc. of total tower height), but rather the geographic area within which <u>some portion</u> of the Facility would theoretically be visible. Their primary purpose is to provide a general understanding of a Facility's potential visibility and identify areas to be visited during field reconnaissance.

Figure A1 identifies areas of potential project visibility at a macro scale within the 2-mile viewshed area. Figure A2 provides a more localized assessment potential visibility within the 1-mile VRA study area. Figure A1 and Figure A2 are provided in Appendix A.

The land cover viewshed overlay illustrates that of the 8,041 acres within the 2-mile viewshed area, a direct view (e.g., not screened or filtered by intervening vegetation) of some portion of the Facility is theoretically possible from approximately 0.10% of such viewshed area. This compares to 0.13% visible area for the 2019 tower proposal.³ The land cover viewshed overlay illustrates that of the 2,010 acres within the 1-mile VRA study area, a direct view of some portion of the Facility is theoretically possible from approximately 0.38% of such viewshed area. This compares to 0.48% visible area for the 2019 tower proposal.

³ A difference is noted between the calculation of viewshed area found in the 2019 visual assessment report and the viewshed area calculations included herein. This difference results from the use of the LIDAR based DSM compared to the slightly less accurate digitized vegetative cover analysis. This minor difference is inconsequential for the purpose of visual analysis. The comparison of viewshed areas for both the 2019 and current tower proposals included herein are both calculated using the more current LIDAR based DSM.

Notwithstanding, the photos herein (refer to Appendix B) confirm that the actual total area from which the Facility can be viewed is significantly less than even the small theoretical percentage within the 2-mile and 1-mile study areas indicated by the land cover viewshed maps.

This assessment finds that there are no large geographic areas where Facility views will occur. Places within the public right-of-way where Facility views are found are isolated locations where narrow view corridors exist through rare small openings in roadside vegetation and between structures. In all cases, affected road segments are short and Facility views will be brief and intermittent through roadside vegetation. Moreover, given the complex visual stimuli encountered by motorists travelling in a moving vehicle, even if the Facility is visible, it is probable that viewer recognition of the Facility would be limited to a fraction of the total available viewing time. As the tendency of motorists is to focus down the road, peripheral views of the Facility will go largely unnoticed by most travelers.

VISUAL RESOURCES

<u>Scenic Resources of Statewide Significance</u> - To avoid subjectivity in assessing potential visual impact, the New York State Department of Environmental Conservation's ("NYSDEC") Program Policy on Assessing and Mitigating Visual Impact (DEP-00-02 [revised 12/13/2019]) ("DEC Visual Policy") provides guidance in the determination of visual significance under the State Environmental Quality Review Act (SEQRA). Aesthetic impact is defined by the DEC Visual Policy as follows:

"Aesthetic impact occurs when there is a detrimental effect on the perceived beauty of a place or structure. Mere visibility of a project should not be a threshold for decision making. Instead a project, by virtue of its visibility, must clearly interfere with or reduce the public's enjoyment or appreciation of the appearance of a significant place or structure."⁴

The DEC Visual Policy defines an "aesthetically significant place" as a place formally designated and visited because of its beauty.⁵ Aesthetically significant places are established by federal or state government pursuant to statutory authority, are a matter of public record and are not arbitrarily or subjectively determined. The DEC Visual Policy contains specific criteria defining places considered to be aesthetic resources of statewide significance. These places are high value sites including state parks, scenic roads, wild, scenic and recreational rivers, state forests, wildlife management areas, scenic areas of statewide significance, Heritage Areas, National

⁴ DEC Visual Policy, p.15. (<u>https://www.dec.ny.gov/docs/permits_ej_operations_pdf/visualpolicydep002.pdf</u>)

⁵ DEC Visual Policy, p.15.

Natural Landmarks, state or federally designated trails, properties or districts listed or eligible for listing on the National Register of Historic Places, among others.

The DEC Policy also does not apply to potentially affected places that are not open to the general public. The DEC Visual Policy states:

"The Visual Policy is intended to address places or locations that have been officially designated for their aesthetic qualities and that are accessible to the public at large as opposed to places that may have individual or private importance only." ⁶

No "inventoried resources" are found within the 1-mile VRA study radius. Both the viewshed analysis and the balloon test demonstrate that the Facility is substantially or fully screened by dense woodland vegetation beyond the immediate Facility area. Therefore, due to vegetation and distance, the Facility will not be readily visible from any scenic resource of statewide or national significance beyond the 1-mile VRA study radius.

<u>Aesthetic Resources of Local Importance</u> - Aesthetic resources of local importance are publicly accessible places generally recognized and enjoyed by community residents and visitors for their unique aesthetic value. Aesthetic resources of local importance are established through local democratic processes and are not arbitrarily or subjectively determined. Such places are most commonly municipal parks, trails, bikeways, and may also include not-for-profit conservation lands and open space preserves.

Places meeting this criterion with the 1-mile VRA study area include:

 <u>Blue Mountain Reservation</u> – The 1,538-acre Blue Mountain Reservation is a county park that features miles of trails for mountain biking, strolling and nature study, and offers challenging hikes to the tops of two large peaks, Mt. Spitzenberg and Blue Mountain. Also located at the park is the Sportsman Center, a recreation facility offering target ranges. The Blue Mountain Reservation is heavily wooded with few opportunities for views beyond the immediate foreground.

No views of the Facility were found from any designated trail inside the park during the balloon test due to the dense local vegetation.

No view of the Facility was found from the summit of Blue Mountain (elev. 680 feet) (refer to photo 8 included in Figure B4 in Appendix B)⁷.

⁶ DEC Visual Policy, p.4.

⁷ Saratoga Associates hiked the trail to the Blue Mountain summit in April 2019 during a balloon visibility test conducted as part of the 2019 tower proposal visual assessment. Due to dense forest vegetation no visibility of the balloon was identified at that time. In consultation with Town consultant HDR it was agreed that photos

The only Facility view found within the Blue Mountain Reservation was along a park utility road where it intersects with the Montrose Station Road cul-de-sac, and from a brief segment of the utility road where the road passes within a cleared natural gas transmission corridor. Such visibility is limited in nature. Accordingly, the Facility will not be readily visible to park visitors. Figures C13-C15 in Appendix C illustrate this view.

- <u>Briarcliff-Peekskill Trailway</u> The Briarcliff-Peekskill Trailway is a 12-mile unpaved walking trail that runs from Ossining to the Blue Mountain Reservation. Based on viewshed analysis, the Facility will not be visible from the Briarcliff-Peekskill Trailway due to the density of the forest vegetation.
- <u>City of Peekskill Parks</u> A portion of the City of Peekskill's Depew Park is located approximately 3/4-mile northwest of the Facility. Based on viewshed analysis, the Facility will not be visible from this recreation facility.

The location of these aesthetic resources of local importance is indicated on Figures A1 and A2.

<u>Other Areas of Local Interest</u> - While not rising to the threshold of national or statewide significance or local importance, other places of local interest have been included in this visual assessment at the request of Town staff to represent potential Facility views from roadways, residential neighborhoods and adjacent or nearby residential properties. Such locations are not representative of any aesthetically significant place as defined under the DEC Visual Policy and are not directly addressed under SEQRA. These places include:

• <u>Residential Areas</u> - Within the ½-mile of the Facility residential development includes single-family parcels fronting, or directly accessed from Montrose Station Road, Maple Avenue and Furnace Wood Road. Other residential development is within planned single-family subdivisions on Galloway Lane and Fairgreen Court.

Between ½- and 1-mile from the Facility residential development is located along, or in planned single-family residential neighborhoods off of Maple Avenue, Lafayette Avenue, Furnace Woods Road and Watch Hill Road including, but not limited to Cortlandt Estates, Hill and Dale Road, Lake View Avenue, Dimond Avenue and Manor Drive.

Dense woodland and well landscaped understory areas commonly limit views from residential properties to the immediate foreground. From most residential properties, views of the Facility will be substantially screened by intervening dense mature woodland vegetation – even during winter leaf-off-season.

taken from the Blue Mountain summit in April 2019 (during leaf-off condition) should be used herein to document existing visual screening from this key observation point.

Facility views along Montrose Station Road will be substantially limited to the vicinity of the cul-de-sac at Blue Sky Stables. Figures C5-C6, C7-C9 and C16-C17 in Appendix C illustrate this view. A very brief, isolated and intermittent glimpse of the upper portion of the Facility is found on Montrose Station Road north of Blue Sky Stables. This view is limited to approximately 100 feet of road frontage on Montrose Station Road. Figures C1-C3 in Appendix C illustrate this view. No other Facility views were discovered on Montrose Station Road.

 <u>Roadways</u> - Approximately 16 miles of public roadways are within the 1-mile VRA study area. Maple Avenue at Montrose Station Road has an AADT of 2,445 vehicles. Furnace Woods Road has an AADT of 1,965 vehicles and Watch Hill Road at Blue Mountain Middle School has an AADT of 3,367 vehicles.

Views of the Facility from these public roads will be substantially or fully screened by dense roadside vegetation from virtually all public roadways within the 1-mile VRA study area.

A discrete project view is found on Furnace Wood Road near the intersection with Galloway Lane. This view through an opening in roadside vegetation is limited to approximately 200 feet of road frontage. No other Facility views were discovered on Furnace Wood Road. Figure C10-C12 in Appendix C illustrates this view.

STUDY AREA RECONNAISSANCE

A balloon visibility test was conducted on July 23, 2022, to allow the general public and local decision-makers an opportunity to observe the location and potential visibility of the Project.

The methodology for the balloon test was developed in consultation with Town of Cortlandt Director of Planning and Town consultant HDR. Key observation points to be visited during the balloon test were discussed and agreed to in advance by Homeland Towers and HDR. Homeland Towers identified 28 locations to be visited during the balloon test. HDR agreed with these locations and requested four additional locations also be visited. These locations are identified in Table 1 below.

One 4-foot± diameter red balloon was raised to the approximately top elevation of the proposed tower. The balloon was raised at approximately 9:00am and remained aloft until 1:25pm. The weather was clear and winds were calm for the duration of the balloon test.

Town of Cortlandt consultant HDR attended the balloon test and was in communication with Saratoga Associates throughout the test to confirm all key observation points were visited and photographed. While the balloon was in the air, an experienced visual analyst (Matthew Allen, RLA) visited each predetermined location and took a photograph from the nearest publicly accessible vantage point in the vicinity of the subject location. For each photographed view, the visual analyst took care to select a photo position where the balloon was most exposed. Photos were also taken from other locations where balloon was not visible to balance the photo record and document visual conditions representative of the surrounding area.

Photographs were taken using a Canon EOS 6D Mark II digital single lens reflex ("DSLR") 26mega pixel camera with a lens setting of 50mm to simulate normal human eyesight relative to scale. The precise coordinate of each photo location was recorded in the field using a handheld global positioning system (GPS) unit. The Canon EOS D6 Mark II also has a built in GPS sensor which imbeds photo coordinates in the photo file meta data.

Photographs taken during the field reconnaissance are provided in Appendix B in the order listed below (photographs 1–35 a/k/a Figures B1-B18). Simulations of the proposed Facility are included as Appendix C and those simulations are indicated in the last column below (Figures C1-C17).

Photographs taken from visual resources during the July 23, 2022 balloon test are provided as in Appendix B. Photographs were taken from the following places:

Map ID/ Picture # (Appendix B)	Table 1 – Key Ob	Direction to Tower	Distance to Tower (feet)	Theoretical View Indicated by Land Cover Viewshed - (See Figure A2)	Balloon Visible*	Photo/ Simulation Provided as
1	Montrose Station Road near #32 and #36	W	430	NO	**NO	
2	Montrose Station Road near #34	W	800	YES	NO	
3	Montrose Station Road near #5	SSW	1,390	NO	NO	
4	Montrose Station Road near #20	SSW	1,090	YES	YES	Figure C1-3
5	Montrose Station Road near #26 and #39	S	500	YES	YES	Figure C4-6
6	Montrose Station Road near #49 and #57	SSE	410	YES	YES	Figure C7-9
7	Blue Summit Reservation Utility Road	ESE	1,260	NO	NO	
8	Blue Mountain Reservation – Blue Mountain Summit	ESE	1,870	NO	NO	
9	Montrose Station Road at Maple Avenue	SSW	2,070	NO	NO	
10	Maple Avenue near #2117	SSW	1,610	YES	**NO	
11	Maple Avenue near #2139	SW	1,570	NO	NO	
12	Maple Avenue near Furnace Woods Road	WSW	2,020	YES	NO	
13	Fairgreen Court at Maple Avenue	WSW	2,450	NO	NO	
14	Furnace Woods Road near Galloway Lane	W	2,120	YES	YES	Figure C10-12
15	Veronica Court near #10	NW	2,710	NO	NO	
16	Veronica Court at Furnace Woods Road	WNW	3,170	NO	NO	
17	Fairgreen Court at cul-de-sac	WSW	2,820	YES	NO	
18	Hill and Dale Road at Maple Avenue	W	3,890	NO	NO	
19	Rosalind Rd at Cross Road	W	6,850	YES	NO	
20	Croton Avenue near #200	WSW	9,020	NO	NO	
21	Dickerson Road at Hilltop Drive	WNW	7,910	NO	NO	
22	Furnace Dock Road near #343	NW	6,790	NO	NO	
23	Charles Cook Park	NNW	8,720	NO	NO	
24	Watch Hill Road near Furnace Woods Elem. School	SSE	4,750	YES	NO	
25	Montrose Station Road at Washington Street	ENE	6,900	NO	NO	
26	Lafayette Avenue near Damian Way	S	3,430	YES	NO	
27	Greenlawn Road at Robbie Road	W	5,420	NO	NO	
28	Chapel Hill Drive	SSE	5,570	NO	NO	
29	1969 Crompond Rd. (NY Pres. Hudson Valley Hospital)	S	8,040	NO	NO	
30	Blue Mountain Reservation – Utility Road at Gas ROW	ENE	1,510	YES	YES	Figure C13-15
31	Montrose Station Road	S	440	YES	YES	Figure C16-17
32	Main St at Dayton La (near Beecher-McFadden Estate)	S	9,650	YES	NO	
33	Villa Loretto NR Site	SSE	7,370	NO	NO	
34	Maple Avenue at Mount Florence NR Historic District	SSE	5,940	NO	NO	
35	Underhill La (Mount Florence NR Historic District)	SSE	4,680	YES	NO	

Terminology

* "Balloon Visible" differs from "Theoretical View Indicated by Land Cover Viewshed" due to the use of LIDAR data which underestimates tree height in viewshed calculation.

** The balloon was not visible from this location during the July 23, 2022 balloon visibility test which was conducted during summer leaf-on conditions. However, a balloon flown on May 4, 2019 representing the 2019 tower proposal was partially visible through deciduous branching during winter leaf-off-season. The currently proposed tower may be partially visible through deciduous branches during winter leaf-off season.

PHOTO SIMULATIONS

To illustrate how the Facility will appear photo simulations were prepared from five (5) affected photo locations. Photo simulations were developed by superimposing a rendering of a threedimensional computer model of the proposed Facility into the base photograph taken from each corresponding visual receptor and adjusting to ensure the model reflects the appropriate size and exact location of the tower. The three-dimensional computer model was developed using *3D Studio Max Design*[®] software (3D Studio Max).

Simulated perspectives (camera views) were matched to the corresponding base photograph for each simulated view by replicating the precise coordinates of the field camera position (as recorded by handheld GPS) and the focal length of the camera lens used (e.g. 50mm). Precisely matching these parameters assures scale accuracy between the base photograph and the subsequent simulated view. The camera's elevation (Z) value is derived from digital elevation model (DEM) data plus the camera's height above ground level. The camera's target position was set to match the bearing of the corresponding existing condition photograph as recorded in the field. With the existing conditions photograph displayed as a "viewport background," and the viewport properties set to match the photograph's pixel dimensions, minor camera adjustments were made (horizontal and vertical positioning, and camera roll) to align the horizon in the background photograph with the corresponding features of the 3D model.

To verify the camera alignment, elements visible within the photograph (e.g., balloon, existing buildings, utility poles, topography, etc.) were identified and digitized from digital orthophotos as needed. Each element was assigned a Z value based on DEM data and then imported to 3D Studio Max. A 3D terrain model was also created (using DEM data) to replicate the existing local topography. The digitized elements were then aligned with corresponding elements in the photograph by adjusting the camera target. If necessary, slight camera adjustments were made for accurate alignment.

A daylight system was created matching the exact date and time of each baseline photograph to assure proper shading and shadowing of modeled elements.

Once the camera alignment was verified, a to-scale 3D model of the proposed 140-foot-tall monopole style telecommunications tower was merged into the model space. The 3D model of Facility was constructed in sufficient detail to accurately convey visual character and reveal impacts. The scale, alignment, elevations and location of the visible elements of the proposed tower are true to the conceptual design. Post production editing (i.e., airbrush out portion of tower that falls below or behind foreground topography and vegetation) was completed using Adobe Photoshop software. The methodology accurately represents the location, height and visual character of the proposed tower. Photo simulations are provided in Appendix C.

SUMMARY AND CONCLUSIONS

The Facility involves the construction of a 140-foot-tall galvanized steel monopole telecommunications tower designed to support to support collocation.

The study area is characterized by a rolling, steeply sloped and heavily wooded landscape with broad tracts of mature second growth deciduous forest that effectively block or screen views of the Facility from most locations.

An application for a telecommunications tower on this same property was made by Verizon Wireless in 2019 ("2019 tower proposal"). The 2019 tower proposal was similar to the current tower design with minor differences. A visual assessment report (dated August 27, 2019) was prepared by Saratoga Associates for the 2019 tower proposal. The findings of the 2019 visual analysis are substantially the same as findings of this visual assessment report. However, given the currently proposed tower has a top elevation approximately 35 feet lower that the 2019 tower proposal, visual analysis demonstrates that the Facility as currently proposed results in small reduction in affected area on the viewshed map and a decrease in visible top of tower elevation as compared to the 2019 tower proposal.

This assessment demonstrates that there are no large geographic areas where Facility views will occur. Places where Facility views are found are isolated locations where narrow view corridors exist through rare small openings in roadside vegetation.

Additionally, as demonstrated above, the Facility will not be visible from any scenic resource of statewide or national significance, including places listed on or eligible for listing on the National Register of Historic Places.

Based on the location of the Facility, it is clear that project visibility is not of a size or extent that it would constitute an unacceptable magnitude.

When considered within the framework of the DEC Visual Policy's definition of "significant adverse visual impact", it is clear the Facility will not cause a diminishment of the public enjoyment and appreciation of any scenic or historic resource, or one that impairs the character or quality of such a place. As such, the proposed Facility will not result in any adverse visual impact to the area.

Submitted by:

Matthew W. Allen, RLA



APPENDIX A

Viewshed Maps





APPENDIX B

Photographs





hoto Location	Distance to Site	Visibility
Montrose Station Road near #34	800 ft	Not Visible

Visual Resource Assessment CORTLANDT 2 (NY-079)



Wireless Telecommunications Facility 52 Montrose Station Road Town of Cortlandt, Westchester Coutny, NY







4 Montrose Station Road near #20

Visible

1,090 ft

PHOTO LOG

Figure B2



Visual Resource Assessment CORTLANDT 2 (NY-079) Wireless Telecommunications Facility 52 Montrose Station Road Town of Cortlandt, Westchester Coutny, NY





Existing View
Photo Location

6 Montrose Station Road near #49 and #57

Distance to Site 410 ft

Visible

Figure B3

PHOTO LOG

HOMELAND TOWERS

Visual Resource Assessment CORTLANDT 2 (NY-079) ess Telecommunications Facility

Visibility

SARATOGA ASSOCIATES





PHOTO LOG

Figure B4



CORTLANDT 2 (NY-079) Wireless Telecommunications Facility 52 Montrose Station Road

Visual Resource Assessment

Town of Cortlandt, Westchester Coutny, NY





Photo	Location	Distance to Sit
9	Montrose Station Road at Maple Avenue	2,070 ft



Visibility Not Visible Distance to Site Photo | Location 1,610 ft Maple Avenue near #2117 10

Figure B5

Not Visible



CORTLANDT 2 (NY-079) Wireless Telecommunications Facility 52 Montrose Station Road

Visual Resource Assessment

Town of Cortlandt, Westchester Coutny, NY



PHOTO LOG



SARATOGA ASSOCIATES



Visual Resource Assessment CORTLANDT 2 (NY-079) Wireless Telecommunications Facility 52 Montrose Station Road Town of Cortlandt, Westchester Coutny, NY



EXISTING			
Photo	Location	Distance to Site	Visibility
13	Fairgreen Court at Maple Avenue	2,450 ft	Not Visible



14 Furnace Woods Road near Galloway Lane

2,120 ft Visible

PHOTO LOG

Figure B7



Visual Resource Assessment CORTLANDT 2 (NY-079) Wireless Telecommunications Facility 52 Montrose Station Road

52 Montrose Station Road Town of Cortlandt, Westchester Coutny, NY






Existing View		
Photo Location	Distance to Site	Visibility
16 Veronica Court at Furnace Woods Road	3,170 ft	Not Visible
PHOTO LOG		Figure B8
	Visual	Resource Assessment







Photo	Location	Distance to Site	Visibility
17	Fairgreen Court at cul-de-sac	2,820 ft	Not Visible



Hill and Dale Road at Maple Avenue 18

PHOTO LOG

Visual Resource Assessment CORTLANDT 2 (NY-079)

Figure B9



Wireless Telecommunications Facility 52 Montrose Station Road Town of Cortlandt, Westchester Coutny, NY





 Existing View
 Distance to Site
 Visibility

 Photo
 Location
 Distance to Site
 Visibility

 20
 Croton Avenue near #200
 9,020 ft
 Not Visible

Figure B10

PHOTO LOG







Photo	Location	Distance to Site	Visibility
21	Dickerson Road at Hilltop Drive	7,910 ft	Not Visible



Existing View			
Photo Location		Distance to Site	Visibility
22 Furnace Dock Road near #343		6,790 ft	Not Visible
PHOTO LOG		94 	Figure B11
	10		Resource Assessment TLANDT 2 (NY-079)
SARATOGA ASSOCIATES	HOMELAND TOWERS	52	nunications Facility Montrose Station Road Westchester Coutny, NY



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March	-				Sec. Mar
Balloon n	ict visible behind trees in this area	La mart	ALL AND	No.	
				370	
			-		
			and the second		
Existing View					
Photo Location			I Die	tance to Site	1 Visibility

Photo	Location	Distance to Site	Visibility
24	Watch Hill Road near Furnace Woods Elementary School	4,750ft	Not Visible

Figure B12

HOMELAND TOWERS

CORTLANDT 2 (NY-079) Wireless Telecommunications Facility 52 Montrose Station Road Town of Cortlandt, Westchester Coutny, NY

Visual Resource Assessment



PHOTO LOG



Photo Location 25 Montrose Station Road at Washington Street

6,900 ft

Visibility Not Visible



26 Layfayette Avenue near Damian Way Distance to Site 3,430 ft

Not Visible

Figure B13

PHOTO LOG







noto Location	Distance to Site	Visibility
Greenlawn Road at Robie Road	5,420 ft	Not Visible
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and the second and the second s	State and the State	The T
	A CONTRACTOR OF	The factor
Belloon not visible behind trees in this cree		and the second
		1 de la
		Cas
isting View		
isting View to Location Chapel Hill Drive	Distance to Site 5,570 ft	Visibility Not Visible









Blue Mountain Reservation - Utility Road at Gas ROW 30

1,510 ft

Figure B15

PHOTO LOG







Photo	Location	Distance to Site	Visibility
31	Montrose Station Road	440 ft	Visible



Photo	Location	Distance to Site	Visibility
32	Main Street at Dayton Lane (near Beecher-McFadden Estate - NR Site)	9,650 ft	Not Visible

Figure B16

PHOTO LOG



Visual Resource Assessment CORTLANDT 2 (NY-079) ess Telecommunications Facility

Wireless Telecommunications Facility 52 Montrose Station Road Town of Cortlandt, Westchester Coutny, NY





Figure B17



CORTLANDT 2 (NY-079) Wireless Telecommunications Facility 52 Montrose Station Road Town of Cortlandt, Westchester Coutny, NY

Visual Resource Assessment





PHOTO LOG

Figure B18





APPENDIX C

Photo Simulations

















SARATOGA ASSOCIATES

This photogroph was token using a 50mm normal angle lens. To appear at the correct scole this page is interded to be viewed approximately 18 inches from the reader's eye when pinted on 11*x17* paper.

Distance to Tower;

41" 15' 15.9240" N 73" 53' 46.5360" W 500 Feet





SARATOGA ASSOCIATES



FOWFRS





SARATOGA ASSOCIATES

VERS











TOWERS HOMELAND T



















Exhibit 2



SCHERER DESIGN GROUP, LLC

Colleen Connolly, PE Partner/CEO Steven Krug, PE Partner/COO

August 10, 2022

Chris Kehoe, AICP Director, Department of Planning & Community Development Town of Cortland 1 Heady Street Cortland Manor, New York 10567

Re: Homeland Towers/Verizon Wireless
 Application for Site Plan and Special Use Permit
 52 Montrose Station Road – New Tower Site
 Review Memo #1 (Inventory and Completeness)

The Review Memo #1 (Inventory and Completeness), prepared by HDR dated 07/07/2022, has been reviewed. Revised drawings dated 08/10/22, submitted simultaneously herewith, and the following information are offered as a response.

Structural/Project Design

The proposed Tower, all attachments, and the Tower's foundation will be designed to meet the ANSI/TIA-222-H "Structural Standard for Antenna Supporting Structures, Antennas and Small Wind Turbine Support Structures" and all county, state, and federal structural requirements for loading, including wind and ice loads. The tower will be designed to support additional co-locators. Moreover, same will be designed to meet all applicable provision of the Town Code Chapter 277, to the extent necessary.

Specifically, the proposed telecommunications tower will be maintained in a safe manner and in compliance with all conditions of the special use permit, without exception, unless specifically granted relief by the Board in writing, as well as all applicable and permissible local codes, ordinances, and regulations, including any and all applicable county, state and federal laws, rules, and regulations.

Any descriptions of geotechnical borings to assess subsurface conditions and inform the foundation design will be provided by tower manufacturer and completed once site plan approval is granted. Additionally, the potential construction methods (dewatering; type(s) of foundation construction options; possibility of rock blasting; grading for equipment slabs and access road improvements; material handling) will be confirmed by the contractor for the project once the site plan has been approved and the tower information and foundation design confirmed.

100 Corporate Drive, Suite 202 • Lebanon, NJ 08833 Ph: 908.323.2513 • Fax: 908.323.2525

Notwithstanding, the proposed monopole will be built and installed as per manufacturer's specifications. Monopole specifications, cut sheet, structural element details, typical welded sections, diameter, taper, and other information will be provided and submitted during the building permit process after site plan approval.

An access road and parking will be provided to assure adequate emergency and service access. Maximum use of existing roads, whether public or private, shall be made to the extent not commercially or physically impracticable. Road construction shall at all times minimize ground disturbance and vegetation-cutting. Road grades shall closely follow natural contours to assure minimal visual disturbance and reduce soil erosion potential. Usual requirements regarding weight and carrying capacity for emergency vehicles should apply to access roads.

Comparison between Prior Design and Current Design

The Verizon application was first reviewed in 2019 by the Planning Board. The information in the table below is provided to better understand the re-design that is now proposed vs. the initial proposal.

ltem	Initial Application	Current Homeland/ Verizon Application
Letter of Authoriza- tion	Provided	Update Includes Homeland Towers
Latitude/Longitude	41°16'09.00", -73°53'48.00"	41°16'11.15", -73°53'48.26" (±150' Northwest of Location from Initial Application)
Property Survey Pro- vided?	Provided in response to comments	Survey attached to revised drawings dated 8/10/2022 submitted simultaneously herewith
Setback dis- tances/property lines and area variance	See separate table below	See separate table below
Ground Elevation, Compound (ft amsl)	435' +/-	410'-6" +/-
Ground elevation, Tower (ft amsl)	445' +/-	410'-6 +/-
Proposed Tower Type	Lattice	Monopole
Tower Height (ft agl)	±140' (±145' for lightning rod)	±140' (±145' for lightning rod)

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Ground-based equip- ment compound (size, s.f.)	±1,425 SF	±929 SF
SEQRA EAF Submit- ted	Yes	Yes - Noted edits made to prior version
SHPO Determination	Yes, see SEQRA Submission	Update pending
Referrals (municipali- ties and county)	Adjacent municipalities and County	Town confirmed project refer- rals sent are compliant.
Tree Survey	Yes (12/20/2019)	See Z-12 of revised drawings dated 8/10/2022 submitted simultaneously herewith
# Trees to be re- moved	35	19
Existing utilities in- cluded on drawings	Yes	Yes
Visual Impact Analy- sis (Balloon test)	May 4, 2019 balloon test and August 2019 Visual Resource Evaluation test from Saratoga Associates	July 23, 2022 balloon test and August 2022 Visual Resource Evaluation Saratoga Associ- ates submitted simultane- ously herewith
Photosimulations and viewshed maps provided	Included in the August 2019 Visual Resource Evaluation test from Saratoga Associates	Included in the August 2022 Visual Resource Evaluation Sa- ratoga Associates submitted simultaneously herewith
Viewshed Analysis - net area of visibility	Included in the August 2019 Visual Resource Evaluation test from Saratoga Associates	Included in the August 2022 Visual Resource Evaluation Sa- ratoga Associates submitted simultaneously herewith
Requested Waivers (Chapter 277)	Min. Side Yard	Minimum side yard setback now met, no variance required

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Setback distances/property lines and area variance needs

(Section 307-17)		Initial Application	Current Homeland/ Verizon Application	
	Re- quired	Existing	Proposed	Proposed
Min. Lot Area	40,000 SF	261,664 SF	No Change	No Change
Min. Lot Width	150'	552'	No Change	No Change
Max. Height	2-1/2 Sto- ries/35'	1-1/2 Stories/ ±20'	±9' (Equipment Canopy)	±9' (Equipment Can- opy)
Min. Front Yard	50'	±25' *	±221'	±189'-7"
Min. Side Yard	30'	±65'	±7'-0" **	±62'-3"
Min. Rear Yard	30'	±148'	±66	±181
Max. Building Coverage	65% Of F.A.R.	±3%	±3.07%	±3.35
Min. Landscape Cover- age	60%	±72%	±69%	±69
* = Ex	-			
**				

Should you have any questions regarding any of the above information, please call me at 908-323-2513 or via email at cconnolly@schererdesigngroup.com.

Regards,

Colleen Connolly, P.E. NY PE#087018

100 Corporate Drive, Suite 202 • Lebanon, NJ 08833 Ph: 908.323.2513 • Fax: 908.323.2525

Exhibit 3


August 19, 2022

C Squared Systems, LLC ("C Squared"), a firm specializing in radio-frequency engineering and wireless communication networks, submits this supplemental report in connection with the application made by Homeland Towers, LLC and New York SMSA Limited Partnership d/b/a Verizon Wireless ("Verizon Wireless") for the proposed public utility wireless telecommunication facility ("Facility") at 52 Montrose Station Road, Cortlandt, New York ("Site"). This report was prepared in response to comments from HDR Engineering, Inc. dated 7/7/22. Kindly see our responses below.

Town Consultant Comment: The applicant and its RF Engineer should confirm that the Tables of Existing and Proposed Verizon cell sites and the low-band and high-band Verizon coverage maps submitted prior are inclusive of all current existing and approved sites in the search area. The table listing these sites within the report should be updated if necessary, and any updates to the current existing / proposed Verizon cell sites should be added to the coverage maps. If there are no updates required, the RF Engineer shall describe how the information in the 2019 and 2021 reports was confirmed to be representative of Verizon's current network conditions in the area.

Response: The table of existing and proposed sites has been updated and attached hereto as <u>Exhibit A</u>. Verizon has confirmed that to the extent any modifications have been made to the surrounding sites since C Squared's previous report for this Facility, dated August 12, 2021, same did not impact the coverage footprint from those sites. Attached hereto as <u>Exhibit B</u> are maps depicting: (i) the existing coverage from the surrounding sites ("Existing 750 MHZ LTE Coverage") and, (ii) existing and proposed coverage, with the Facility included ("Existing & Proposed 750 MHZ LTE Coverage"). The Existing 750 MHZ LTE Coverage map shows the existing significant gap in coverage in the vicinity of the Facility, and identifies the existing facilities surrounding the gap. The Existing & Proposed 750 MHZ LTE Coverage map shows the coverage from the proposed coverage will fill the existing significant gap in coverage from the existing coverage from the surrounding sites, illustrating how the proposed coverage will fill the existing significant gap in coverage from the existing significant gap in coverage from the existing significant gap in coverage and connect to the existing coverage from the existing sites. Please note, as detailed herein, the existing and proposed coverage has not changed since C Squared's report dated August 12, 2021. Therefore, the coverage maps attached hereto as <u>Exhibit B</u> identify the same

significant gap and proposed coverage as those previously submitted with C Squared's August 12, 2021 report. Such maps have merely been updated to include some existing site locations and identifiers.

Town Consultant Comment: The Verizon frequencies should be confirmed and listed to reflect what is currently proposed. 5G services, if proposed, should be noted. Renewed or updated FCC licenses for all proposed Verizon operation frequencies - if different than earlier submittals - should be submitted for the file. Specification and model numbers for all proposed Verizon antennas, RRH units, and other tower-mounted equipment should be updated from prior filings, if necessary to reflect the current proposal.

<u>Response</u>: Verizon Wireless has added CBRS and C Band frequencies to the site since the previous submission. These frequencies do not expand the coverage footprint of the site and therefore do not alter the coverage justification or the coverage maps. Verizon Wireless applicable FCC licenses are attached hereto as <u>Exhibit C.</u>

Town Consultant Comment: HDR understands that the need for the tower site (and Verizon service) is predominately based on coverage, based on a review of the C-Squared report. It is requested that the applicant confirm if increased capacity/densification for Verizon's local area network is also an objective. If so, capacity charts for surrounding cell sites should be provided.

<u>Response</u>: As previously stated, the need for the site is driven by coverage. <u>Exhibit B</u>, attached hereto, details the existing significant gap in coverage in the vicinity of the Site and shows how the proposed facility will provide coverage to that existing significant gap.

<u>Town Consultant Comment:</u> Verizon should update the longer-range (2-3 year) communications facilities plan for the Town, if any new contemplated sites within the Town or 2 miles from the site proposed at 52 Montrose Station Road have been identified since the prior RF justification submittals. Verizon should also inform the Planning Board of its conceptual plans to roll-out 5G operations in the Town.

<u>Response</u>: Verizon Wireless has no new sites that are currently contemplated in the area detailed above in the timeframe noted above.

2

Conclusion

As detailed herein and in our previous reports, C Squared has demonstrated that Verizon Wireless has a significant gap in coverage in the Town of Cortlandt and the proposed Facility at the Site (52 Montrose Station Road) will remedy that significant gap in coverage. Moreover, there is no feasible alternative to the proposed Facility at the Site which would remedy the significant gap in coverage. Therefore, it is respectfully submitted that the proposed Facility at the 52 Montrose Station Road site should be approved forthwith.

Qualifications and Statement of Certification

I am a Radio Frequency Engineer for C Squared Systems, LLC, which has been retained by Verizon Wireless. I have extensive experience in the design and testing of Verizon Wireless' communication facilities as part of its federally licensed network in New York. For example, I have participated in the design and performance of the Verizon Wireless' network in New York, participated in engineering efforts to provide a quality system build-out, evaluated zoning provisions applicable to wireless communication facilities in various communities, testified before local zoning boards in zoning hearings, prepared search areas for new installations, participated in drive tests and reviewed drive test results, participated in site visits, prepared RF designs for proposed installations, reviewed plans and prepared RF packages for zoning hearings, tested and evaluated new sites, and located and corrected system performance problem areas.

I have been involved in Verizon Wireless' design of the proposed wireless communication facility at the above site. I have personally visited the area, reviewed coverage data for the proposed installation, and reviewed RF coverage information for Verizon Wireless' existing sites. I certify to the best of my knowledge that the statements in this report are true and accurate.

Martof Fand

Martin J. Lavin Senior RF Engineer Date: August 19, 2022



	Resume of:	Martin I. Lavin	65 Dartmouth Drive, Auburn, NH
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603-644-2820

SUMMARY: Over thirty years of experience in the RF and wireless communications industry.

EXPERIENCE:

C Squared Systems, LLC Senior RF Engineer

- Zoning Hearing Expert Testimony
- Advanced Wireless Services RF System Design
- Wireless Broadband Access Systems Engineering
- Drive Test Services
- Intermodulation Studies
- RF Exposure Studies

U.S. Cellular, Bedford, NH Senior RF Engineer

- West Virginia / Maryland / Pennsylvania CDMA System Design and Optimization
- CDMA Capacity Planning and New Site Builds
- Subject Matter Expert for E-911, Public Safety Interference Issues, Collocation, and Technology Transitions

Independent Wireless One (Sprint Network Affiliate), Londonderry, NH 2000-2002 Senior RF Engineer

- CDMA System Buildout in New Hampshire and Vermont
- · Organized Field Office
- RF System Design and Site Selection Point of Contact with Site Acquisition and Construction
- Capacity Planning
- System Performance

2008-Present

Nextel, Reston, VA

Senior Manager – Technology Development

- New Feature Development for the Motorola iDEN system
- Corporate RF Engineering Standards
- Evaluation of international and domestic spectrum acquisition opportunities

USI, Chantilly, VA

Program Manager

- Software development projects in Europe and U.S., including budget and schedule responsibility.
- · Direct client contact for requirements gathering and proposal writing.

LCC International, McLean, VA

Manager of Engineering

- Domestic and International Cellular & PCS System Design and Buildout
- Nationwide GSM Network Buildouts of Australia and New Zealand
- FCC PCS Pioneer's Preference
- Strategic Planning for LCC Initial Public Offering
- Responsible for RF Design and Site Selection for Los Angeles MTA
- Wrote network equipment RFP for two PCS MTAs
- Software Product Manager for CellCAD, ANET, and MetroNET
- Managed Drive Test Services, including all Timesheet and Expense Approval

Carl T. Jones Corporation / SAIC, Springfield, VA EMC/EMI Engineer

- Test and Measurement consulting for FCC compliance
- Broadcast (AM-FM-TV) consulting

EDUCATION: University of New Hampshire – Whittemore School of Business and Economics Master of Business Administration

Rensselaer Polytechnic Institute

Bachelor of Science, Electrical Engineering

1999-2000

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1999

1991-1998

EXHIBIT A

Existing & Proposed Sites

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Site	Address	City	Latitude	Longitude
Buchanan	Con Ed Tower	Cortlandt	41.2609	-73.9629
Crugers	138 Albany Post Road	Montrose	41.2408	-73.9313
Peekskill 3	901 Main St	Peekskill	41.2914	-73.9217
Crompond	3800 Crompond Rd	Yorktown	41.2923	-73.8496
Peekskill	Winchester Ave.	Peekskill	41.3016	-73.8955
Dickerson Mountain	260 Croton Avenue	Cortlandt	41.2773	-73.8623
Furnace Woods	51 Scenic Drive	Cortlandt	41.2286	-73.9019
East Cortlandt Manor	1033 Oregon Road	Cortlandt	41.3135	-73.8951
Roe Park	3105 East Main Street	Cortlandt	41.3078	-73.8714
Roa Hook	1 Bay view Drive	Peekskill	41.2983	-73.9461
M ohegan Lake	Woodland Ave	Yorktown	41.3220	-73.8449
Buchanan 2	300 Railroad Avenue	Peekskill	41.2740	-73.9379
Mount Airy	1065 Quaker Ridge Road	Cortlandt	41.2160	-73.8601
Albany Post Road SC	2143 Albany Post Road	Cortlandt	41.2528	-73.9315
Cortlandt (Proposed Site)	52 Montrose Station Road	Cortlandt	41.2694	-73.8966
Croton on Hudson 2	1 Van Wyck Street	Croton on Hudson	41.2082	-73.8878

EXHIBIT B





EXHIBIT C

	Wireless Telecomm RADIO STATION		reau	
MUNICATIONS				
LICENSEE: CELLCO PAI	RTNERSHIP			
CELLCO PARTNERSHIP			Call Sig WQGB26	
5055 NORTH POINT PKW ALPHARETTA, GA 30022	Y, NP2NÉ NETWORK EN	GINEERING		Radio Service VS (1710-1755 MHz and 2110-2155 MHz)
C Registration Number (FRN)	: 0003290673			1
Grant Date 01-11-2022	Effective Date 01-11-2022	Expirati 11-29-		Print Date 01-12-2022
Market Number CMA001	Chan	nel Block A	S	ub-Market Designator 0
		et Name NJ/Nassau-Suffolk		
1st Build-out Date	2nd Build-out Date	3rd Build-	out Date	4th Build-out Date

Conditions:

2006.

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Coordination Procedures in the 1710-1755 MHz Band, Public Notice, FCC 06-50, WTB Docket No. 02-353, rel. April 20,

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at http://wireless.fcc.gov/uls/index.htm?job=home and select "License Search". Follow the instructions on how to search for license information.

Call Sign: WQGB263

File Number: 0009783847

Print Date: 01-12-2022

The license is subject to compliance with the provisions of the January 12, 2001 Agreement between Deutsche Telekom AG, VoiceStream Wireless Corporation, VoiceStream Wireless Holding Corporation and the Department of Justice (DOJ) and the Federal Bureau of Investigation (FBI), which addresses national security, law enforcement, and public safety issues of the FBI and the DOJ regarding the authority granted by this license. Nothing in the Agreement is intended to limit any obligation imposed by Federal lawor regulation including, but not limited to, 47 U.S.C. Section 222(a) and (c)(1) and the FCC's implementing regulations. The Agreement is published at VoiceStream-DT Order, IB Docket No. 00-187, FCC 01-142, 16 FCC Rcd 9779, 9853 (2001).

Call Sign: WQGB263

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File Number: 0009783847

Print Date: 01-12-2022



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RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

CELLCO PARTNERSHIP 5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING ALPHARETTA, GA 30022 FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
12-21-2021	12-21-2021	11-29-2036	12-21-2021
Market Number	Chann	el Block	Sub-Market Designator
BEA010		3	15
	Market New York-No. N		
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

This authorization is conditioned upon the licensee, prior to initiating operations from any base or fixed station, making reasonable efforts to coordinate frequency usage with known co-channel and adjacent channel incumbent federal users operating in the 1710-1755 MHz band whose facilities could be affected by the proposed operations. See, e.g., FCC and NTIA Coordination Procedures in the 1710-1755 MHz Band, Public Notice, FCC 06-50, WTB Docket No. 02-353, rel. April 20, 2006.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the license any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at http://wireless.fcc.gov/uls/index.htm?job=home and select "License Search". Follow the instructions on how to search for license information.

Call Sign: WQGA906

File Number: 0009773259

Print Date: 12-21-2021



REFERENCE COPY

This is not an official FCC license. It is a record of public information contained in the FCC's licensing database on the date that this reference copy was generated. In cases where FCC rules require the presentation, posting, or display of an FCC license, this document may not be used in place of an official FCC ticense.



Federal Communications Commission Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY CELLCO PARTNERSHIP 5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING ALPHARETTA, GA 30022	Call Sign KNLH264	File Number 0007716974
		Service Broadband

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date	
06-02-2017	06-02-2017	06-27-2027	06-06-2017	
Market Number	China	nel Block	Sub-Market Designator	
BTA321		F	()	
	Marke New Yo			
st Build-out Date 06-27-2002	2nd Build-out Date	3rd Build-out Date	4th Build-out Date	

Walvers/Conditions:

This authorization is subject to the condition that, in the event that systems using the same frequencies as granted herein are authorized in an adjacent foreign territory (Canada/United States), future coordination of any base station transmitters within 72 km (45 miles) of the United States/Canada border shall be required to eliminate any harmful interference to operations in the adjacent foreign territory and to ensure continuance of equal access to the frequencies by both countries.

This authorization is conditioned upon the full and timely payment of all monies due pursuant to Sections 1.2110 and 24.716 of the Commission's Rules and the terms of the Commission's installment plan as set forth in the Note and Security Agreement executed by the licensee. Failure to comply with this condition will result in the automatic cancellation of this authorization.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at http://wireless.fcc.gov/uls/index.htm?job=home and select "License Search". Follow the instructions on how to search for license information.

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Call Sign: KNLH264

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File Number: 0007716974

Print Date: 06-06-2017

License renewal granted on a conditional basis, subject to the outcome of FCC proceeding WT Docket No. 10-112 (see FCC 10-86, paras. 113 and 126).

FCC 601-MB April 2009

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Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY CELLCO PARTNERSHIP 5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING ALPHARETTA, GA 30022	Call Sign File Number WQBT539 0007490681	
	Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date	
12-06-2016	12-06-2016	01-03-2027	12-07-2016	
Market Number	Chan	nel Block	Sub-Market Designate	
BTA321		C	4	
		ork, NY		
1st Build-out Date 12-07-2003	2nd Build-out Date	3rd Build-out Date	4th Build-out Date	

Waivers/Conditions:

This authorization is subject to the condition that, in the event that systems using the same frequencies as granted herein are authorized in an adjacent foreign territory (Canada/United States), future coordination of any base station transmitters within 72 km (45 miles) of the United States/Canada border shall be required to eliminate any harmful interference to operations in the adjacent foreign territory and to ensure continuance of equal access to the frequencies by both countries.

This authorization is conditioned upon the full and timely payment of all monies due pursuant to Sections 1.2110 and 24.711 of the Commission's Rules and the terms of the Commission's installment plan as set forth in the Note and Security Agreement executed by the licensee. Failure to comply with this condition will result in the automatic cancellation of this authorization.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at http://wireless.fcc.gov/uls/index.htm?job=home and select "License Search". Follow the instructions on how to search for license information.

Call Sign: WQBT539

File Number: 0007490681

Print Date: 12-07-2016

License renewal granted on a conditional basis, subject to the outcome of FCC proceeding WT Docket No. 10-112 (see FCC 10-86, paras, 113 and 126).

Pursuant to Order DA 03-617 (rel. March 3, 2003), the designated entity holding period for this license is extended by 703 days, or until the licensee meets its five-year construction requirement, whichever is sooner.





RADIO STATION AUTHORIZATION

LICENSEE: AIRTOUCH CELLULAR

ATTN: REGULATORY AIRTOUCH CELLULAR 5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING ALPHARETTA, GA 30022

FCC Registration Number (FRN): 0006146468

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Grant Date 12-02-2016	Effective Date 12-02-2016	Expiration Date 01-03-2027	Print Date 12-03-2016
Market Number BTA321	Cba	Channel Block Sub-Marke	
	New	tet Name York, NY	
1st Build-out Date 12-07-2003	2nd Build-out Date 01-03-2007	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

This authorization is subject to the condition that, in the event that systems using the same frequencies as granted herein are authorized in an adjacent foreign territory (Canada/United States), future coordination of any base station transmitters within 72 km (45 miles) of the United States/Canada border shall be required to eliminate any harmful interference to operations in the adjacent foreign territory and to ensure continuance of equal access to the frequencies by both countries.

Grant of the request to update licensee name is conditioned on it not reflecting an assignment or transfer of control (see Rule 1.948); if an assignment or transfer occurred without proper notification or FCC approval, the grant is void and the station is licensed under the prior name.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the license any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at http://wireless.fcc.gov/uls/index.htm?job=home and select "License Search". Follow the instructions on how to search for license information.

FCC 601-MB April 2009 Licensee Name: AIRTOUCH CELLULAR

Call Sign: KNLF644

: X

File Number: 0007490664

Print Date: 12-03-2016

License renewal granted on a conditional basis, subject to the outcome of FCC proceeding WT Docket No. 10-112 (see FCC 10-86, paras. 113 and 126).

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RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY CELLCO PARTNERSHIP 5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING ALPHARETTA, GA 30022
 Call Sign WQJQ689
 File Number 0008587211

 Radio Service

 WU - 700 MHz Upper Band (Block C)

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date	
09-11-2019	09-11-2019	06-13-2029	09-13-2019	
Market Number	Cha	nnel Block	Sub-Market Designate	
REA001		C	0	
		tet Name rtheast		
lst Build-out Date 06-13-2013	2nd Build-out Date 06-13-2019	3rd Build-out Date	4th Build-out Date	

Waivers/Conditions:

If the facilities authorized herein are used to provide broadcast operations, whether exclusively or in combination with other services, the licensee must seek renewal of the license either within eight years from the commencement of the broadcast service or within the term of the license had the broadcast service not been provided, whichever period is shorter in length. See 47 CFR §27.13(b).

License renewal granted on a conditional basis, subject to the outcome of FCC proceeding WT Docket No. 10-112 (see FCC 10-86, paras. 113 and 126).

This authorization is conditioned upon compliance with section 27.16 of the Commission's rules

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at http://wireless.fcc.gov/uls/index.htm?job=home and select "License Search". Follow the instructions on how to search for license information.

Call Sign: WQJQ689

File Number: 0008587211

Print Date: 09-13-2019

700 MHz Relicensed Area Information:



FCC 601-MB October 2017



RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY	Call Sign WRNE581	File Number
CELLCO PARTNERSHIP 5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING ALPHARETTA, GA 30022		Service Hz Service

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
07-23-2021	07-23-2021	07-23-2036	
Market Number		nel Block	Sub-Market Designator
PEA001		A1	0
		t Name ork, NY	
1st Build-out Date 07-23-2029	2nd Build-out Date 07-23-2033	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

Operation for this combination license grants both interim and final rights for this PEA and is not impacted by the relocation process pursuant to 47 CFR ? 27.1412(g).

License is conditioned on compliance with all applicable FCC rules and regulations, including licensee making payments required by 47 C.F.R. §§ 27.1401- 27.1424 as described in FCC 20-22. See FCC 20-22, paras. 178-331.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

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Call Sign: WRNE581

File Number:

Print Date:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
		2		
		No.		
		G.		
		· Part		
			A	



RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY	Call Sign WRNE582	File Number
CELLCO PARTNERSHIP 5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING ALPHARETTA, GA 30022		Service Hz Service

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
07-23-2021	07-23-2021	07-23-2036	
Market Number	Chan	nel Block	Sub-Market Designator
PEA001		A2	0
		et Name fork, NY	
1st Build-out Date 07-23-2029	2nd Build-out Date 07-23-2033	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

Operation for this combination license grants both interim and final rights for this PEA and is not impacted by the relocation process pursuant to 47 CFR ? 27.1412(g).

License is conditioned on compliance with all applicable FCC rules and regulations, including licensee making payments required by 47 C.F.R. §§ 27.1401- 27.1424 as described in FCC 20-22. See FCC 20-22, paras. 178-331.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

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Call Sign: WRNE582

File Number:

Print Date:



UNITED STATE	
PEDER L. CONSULTIONS	
AFATUNICATIONS	

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP 632

15

ATTN: REGULATORY	Call Sign WRNE583	File Number
CELLCO PARTNERSHIP 5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING ALPHARETTA, GA 30022	Radio PM - 3.7 G	Service Hz Service

FCC Registration Number (FRN): 0003290673

Grant Date 07-23-2021	Effective Date 07-23-2021	Expiration Date 07-23-2036	Print Date
Market Number PEA001		nel Block A3	Sub-Market Designator 0
	Marke New Ye	and the second se	
1st Build-out Date 07-23-2029	2nd Build-out Date 07-23-2033	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

Operation for this combination license grants both interim and final rights for this PEA and is not impacted by the relocation process pursuant to 47 CFR ? 27.1412(g).

License is conditioned on compliance with all applicable FCC rules and regulations, including licensee making payments required by 47 C.F.R. §§ 27.1401- 27.1424 as described in FCC 20-22. See FCC 20-22, paras. 178-331.

Conditions:

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Call Sign: WRNE583

File Number:

Print Date:





RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY	Call Sign WRNE584	File Number
CELLCO PARTNERSHIP 5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING ALPHARETTA, GA 30022	Radio S PM - 3.7 G	Service Hz Service

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
07-23-2021	07-23-2021	07-23-2036	
Market Number		nel Block	Sub-Market Designator
PEA001		A4	0
		t Name ork, NY	
1st Build-out Date 07-23-2029	2nd Build-out Date 07-23-2033	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

This interim license, in conjunction with one or more final licenses, collectively provides authorization during the full 15-year license term. Operation under this final license may begin on the earlier of (1) 12/5/2025 or (2) the date that thecertification for accelerated relocation for this PEA is validated by the FCC pursuant to 47 CFR ? 27.1412(g). Assignment application(s) and transfers of control filed for this interim license must be done in conjunction with any linked final license.

License is conditioned on compliance with all applicable FCC rules and regulations, including licensee making payments required by 47 C.F.R. §§ 27.1401- 27.1424 as described in FCC 20-22. See FCC 20-22, paras. 178-331.

Conditions:

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Call Sign: WRNE584

à

File Number:

Print Date:



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	CELLCO PARTNERSHIP
5055 NORT	ULATORY IRTNERSHIP H POINT PKWY, NP2NE NETV TA, GA 30022

nmunications Commission elecommunications Bureau

ATION AUTHORIZATION

Call Sign WRNE585 **Radio Service VORK ENGINEERING**

File Number PM - 3.7 GHz Service

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
07-23-2021	07-23-2021	07-23-2036	
Market Number		nel Block	Sub-Market Designator
PEA001		A5	0
		t Name ork, NY	
1st Build-out Date 07-23-2029	2nd Build-out Date 07-23-2033	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

This interim license, in conjunction with one or more final licenses, collectively provides authorization during the full 15-year license term. Operation under this final license may begin on the earlier of (1) 12/5/2025 or (2) the date that thecertification for accelerated relocation for this PEA is validated by the FCC pursuant to 47 CFR ? 27.1412(g). Assignment application(s) and transfers of control filed for this interim license must be done in conjunction with any linked final license.

License is conditioned on compliance with all applicable FCC rules and regulations, including licensee making payments required by 47 C.F.R. §§ 27.1401- 27.1424 as described in FCC 20-22. See FCC 20-22, paras. 178-331.

Conditions:

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Call Sign: WRNE585

File Number:

Print Date:





RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY CELLCO PARTNERSHIP 5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING ALPHARETTA, GA 30022

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
07-23-2021	07-23-2021	07-23-2036	
Market Number		el Block	Sub-Market Designator
PEA001		31	0
	Markej New Yo	and the second se	
1st Build-out Date 07-23-20292nd Build-out Date 07-23-20333rd Build-out Date			4th Build-out Date

Waivers/Conditions:

This interim license, in conjunction with one or more final licenses, collectively provides authorization during the full 15-year license term. Operation under this final license may begin on the earlier of (1) 12/5/2025 or (2) the date that the certification for accelerated relocation for this PEA is validated by the FCC pursuant to 47 CFR ? 27.1412(g). Assignment application(s) and transfers of control filed for this interim license must be done in conjunction with any linked final license.

License is conditioned on compliance with all applicable FCC rules and regulations, including licensee making payments required by 47 C.F.R. §§ 27.1401- 27.1424 as described in FCC 20-22. See FCC 20-22, paras, 178-331.

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File Number

Call Sign: WRNE586

File Number:

Print Date:




Federal Communications Commission Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY CELLCO PARTNERSHIP 5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING ALPHARETTA, GA 30022	Call Sign WRNE587	File Number
	Radio Service PM - 3.7 GHz Service	

FCC Registration Number (FRN): 0003290673

Grant Date 07-23-2021	Effective Date 07-23-2021	Expiration Date 07-23-2036	Print Date
Market Number PEA001		Channel Block B2	
	Market New Yo	the second se	
1st Build-out Date 07-23-2029	2nd Build-out Date 07-23-2033	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

This interim license, in conjunction with one or more final licenses, collectively provides authorization during the full 15-year license term. Operation under this final license may begin on the earlier of (1) 12/5/2025 or (2) the date that thecertification for accelerated relocation for this PEA is validated by the FCC pursuant to 47 CFR ? 27.1412(g). Assignment application(s) and transfers of control filed for this interim license must be done in conjunction with any linked final license.

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRNE587

File Number:

Print Date:

700 MHz Relicensed Area Information:





Federal Communications Commission Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY	Call Sign WRNE588	File Number
CELLCO PARTNERSHIP 5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING ALPHARETTA, GA 30022	Radio Service PM - 3.7 GHz Service	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
07-23-2021	07-23-2021	07-23-2036	
Market Number		el Block	Sub-Market Designator
PEA001		33	0
	Market New Yo		
1st Build-out Date 07-23-2029	2nd Build-out Date 07-23-2033	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

This interim license, in conjunction with one or more final licenses, collectively provides authorization during the full 15-year license term. Operation under this final license may begin on the earlier of (1) 12/5/2025 or (2) the date that thecertification for accelerated relocation for this PEA is validated by the FCC pursuant to 47 CFR ? 27.1412(g). Assignment application(s) and transfers of control filed for this interim license must be done in conjunction with any linked final license.

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRNE588

File Number:

Print Date:

700 MHz Relicensed Area Information:





Federal Communications Commission Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: VERIZON WIRELESS NETWORK PROCUREMENT LP

ATTN: REGULATORY VERIZON WIRELESS NETWORK PROCUREMENT LP 5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING ALPHARETTA, GA 30022

Call SignFile NumberWRLD7490009223228			
Radio Service PL - 3.5 GHz Band Priority Access			
License			

FCC Registration Number (FRN): 0029515327

Channe Market WESTCHES Build-out Date	Name	Sub-Market Designator 0 4th Build-out Date
WESTCHES	STER, NY	4th Build-out Date
Build-out Date	3rd Build-out Date	4th Build-out Date

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

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Licensee Name: VERIZON WIRELESS NETWORK

Call Sign: WRLD749

File Number: 0009223228

Print Date: 03-17-2021

700 MHz Relicensed Area Information:





Federal Communications Commission Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: VERIZON WIRELESS NETWORK PROCUREMENT LP

ATTN: REGULATORY VERIZON WIRELESS NETWORK PROCUREMENT LP 5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING ALPHARETTA, GA 30022

Call Sign WRLD750	File Number 0009223228	
	Service	
PL - 3.5 GHz Band Priority Access		
Lice	ense	

FCC Registration Number (FRN): 0029515327

Grant Date 03-12-2021	Effective Date 03-12-2021	Expiration Date 03-12-2031	Print Date 03-17-2021
Market Number D36119	Chan	nel Block	Sub-Market Designator 0
		et Name ESTER, NY	
1st Build-out Date 03-12-2031	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
ers/Conditions: E		\bigcirc	
		0	di.
		1000	

Conditions:

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Licensee Name: VERIZON WIRELESS NETWORK

Call Sign: WRLD750

-

File Number: 0009223228

Print Date: 03-17-2021

700 MHz Relicensed Area Information:





Federal Communications Commission Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: VERIZON WIRELESS NETWORK PROCUREMENT LP

ATTN: REGULATORY VERIZON WIRELESS NETWORK PROCUREMENT LP 5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING ALPHARETTA, GA 30022

Call Sign File Number		
WRLD751 0009223228		
Radio Service		
PL - 3.5 GHz Band Priority Access		
License		

FCC Registration Number (FRN): 0029515327

Grant Date 03-12-2021	Effective Date 03-12-2021	Expiration Date 03-12-2031	Print Date 03-17-2021
Market Number D36119	Chann	iel Block	Sub-Market Designator 0
	Market WESTCHE		
1st Build-out Date 03-12-2031	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
ers/Conditions: E		\bigcirc	

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at http://wireless.fcc.gov/uls/index.htm?job=home and select "License Search". Follow the instructions on how to search for license information.

Licensee Name: VERIZON WIRELESS NETWORK

Call Sign: WRLD751

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File Number: 0009223228

Print Date: 03-17-2021

700 MHz Relicensed Area Information:





Federal Communications Commission Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: VERIZON WIRELESS NETWORK PROCUREMENT LP

ATTN: REGULATORY VERIZON WIRELESS NETWORK PROCUREMENT LP 5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING ALPHARETTA, GA 30022 Call Sign
WRLD752File Number
0009223228Radio ServicePL - 3.5 GHz Band Priority Access
License

FCC Registration Number (FRN): 0029515327

Grant Date 03-12-2021	Effective Date 03-12-2021	Expiration Date 03-12-2031	Print Date 03-17-2021	
Market Number D36119	Chan	nel Block	Sub-Market Designator 0	
	1	t Name STER, NY		
1st Build-out Date 03-12-2031	2nd Build-out Date 3rd Build-out Date 4th Build-out I			
ers/Conditions: E		0		

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

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Licensee Name: VERIZON WIRELESS NETWORK

Call Sign: WRLD752

File Number: 0009223228

Print Date: 03-17-2021

700 MHz Relicensed Area Information:



Exhibit 4

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-



Pinnacle Telecom Group

ANTENNA SITE FCC RF Compliance Assessment and Report

prepared for Homeland Towers New York SMSA Limited Partnership d/b/a Verizon Wireless

> "Cortlandt" Site 52 Montrose Station Road Cortlandt, NY

> > July 19, 2022

14 Ridgedale Avenue - Suite 260 • Cedar Knolls, NJ 07927 • 973-451-1630

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Introduction and Summary	3
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Compliance Conclusion	14

Certification

Appendix A. Background on the FCC MPE Limit

INTRODUCTION AND SUMMARY

At the request of Homeland Towers and New York SMSA Limited Partnership d/b/a Verizon Wireless ("Verizon Wireless"), Pinnacle Telecom Group has performed an independent assessment of radiofrequency (RF) levels and related FCC compliance for the proposed installation of a wireless base station antenna operation on a new monopole to be erected at 52 Montrose Station Road in Cortlandt, NY. Verizon Wireless refers to the site as "Cortlandt", and the proposed operation involves directional panel antennas to facilitate wireless service provision in the 700 MHz, 850 MHz, 1900 MHz, 2100 MHz, 3500 MHz and 3700 MHz frequency bands licensed to Verizon Wireless by the FCC. At this time, mmWave frequencies, frequencies on the order of 28 and 39 GHz, are not proposed at this location.

The FCC requires wireless antenna operators to perform an assessment of potential human exposure to radiofrequency (RF) fields emanating from all the transmitting antennas at a site whenever antenna operations are added or modified, and to ensure compliance with the Maximum Permissible Exposure (MPE) limit in the FCC regulations. In this case, the compliance assessment will include the RF effects of a hypothetical collocation of three wireless carriers' antennas. Note that FCC regulations require any future antenna collocators to assess and assure continuing compliance based on the cumulative effects of all then-proposed and then-existing antennas at the site.

This report describes a mathematical analysis of RF levels resulting around the site in areas of unrestricted public access, that is, at street level around the site. The compliance analysis employs a standard FCC formula for calculating the effects of the antennas in a very conservative manner, in order to overstate the RF levels and to ensure "safe-side" conclusions regarding compliance with the FCC limit for safe continuous exposure of the general public.

The results of a compliance assessment can be described in layman's terms by expressing the calculated RF levels as simple percentages of the FCC MPE limit. If the normalized reference for that limit is 100 percent, then calculated RF levels higher than 100 percent indicate the MPE limit is exceeded and there is a need to

mitigate the potential exposure. On the other hand, calculated RF levels consistently below 100 percent serve as a clear and sufficient demonstration of compliance with the MPE limit. We can (and will) also describe the overall worst-case result via the "plain-English" equivalent "times-below-the-limit" factor.

The results of the FCC RF compliance assessment in this case are as follows:

- At street level around the site, the conservatively calculated maximum RF level from the combination of antenna operations is 4.4298 percent of the FCC MPE limit. In other words, even with the significant degree of conservatism in the calculations, the worst-case calculated RF level is still more than 20 times below the FCC limit for safe, continuous exposure to the RF emissions from antennas.
- The results of the calculations provide a clear demonstration that the RF levels from the combination of antenna operations at the site satisfy the applicable criteria for controlling potential human exposure to RF fields, and the RF levels will be in clear compliance with the FCC regulations and limit concerning RF safety. Moreover, because of the conservative methodology and incorporated assumptions, RF levels actually caused by the antennas will be even less significant than the calculation results here indicate.

The remainder of this report provides the following:

- relevant technical data on the proposed Verizon Wireless antenna operations at the site, as well as on the other proposed antenna operations;
- descriptions of the applicable FCC mathematical models for assessing MPE compliance, and application of the relevant technical data to those models; and
- the results of the analysis, and the compliance conclusion for the site.

In addition, Appendix A provides background on the FCC MPE limit, along with a list of FCC references on compliance.

NOTE ON NON-INTERFERENCE

In connection with the RF emissions from the proposed antenna operation, we note that Verizon Wireless has been granted by the FCC exclusive geographic rights to its channel frequencies, and is further subject to strict FCC technical standards on parameters such as maximum power and out-of-band emissions, as well as regulations related to non-interference. Therefore, we can provide a clear assurance that the proposed antenna operation will not interfere with public safety communications, or the usual and customary reception of radio, television, or other communications services enjoyed by the nearby residential and non-residential properties, or other existing telecommunications devices. At the same time, however, we would be professionally remiss in omitting a reference to a July 2003 FCC decision – a "Memorandum Opinion and Order" in "WT Docket No. 02-100" that related to interference. That FCC Order concluded that any local ordinance requiring a certification of non-interference related to a wireless antenna siting application represents "impermissible regulation" of RF interference, an area under exclusive FCC jurisdiction and federally-preempted from local regulation.

ANTENNA AND TRANSMISSION DATA

The table that follows provides the key compliance-related data for the proposed Verizon Wireless operations.

General Data	
Frequency Bands	700 MHz, 850 MHz, 1900 MHz, 2100 MHz, 3500 MHz and 3700 MHz
Service Coverage Type	Sectorized
Antenna Type	Directional Panel
Antenna Centerline Height AGL	137 ft.
Antenna Line Loss	0 dB (conservatively ignored)
700 MHz Antenna Data	
Antenna Model (Max. Gain)	Commscope NHH-65B-R2B (14.9 dBi)
Antenna would (wax. Jain)	
RF Channels per Sector	Four 40 watts channels
2	
RF Channels per Sector	

1900 MHz Antenna Data						
Antenna Model (Max. Gain)	Commscope NHH-65B-R2B (17.9 dBi)					
RF Channels per Sector	Four 40 watts channels					
2100 MHz Antenna Data						
Antenna Model (Max. Gain)	Commscope NHH-65B-R2B (18.4 dBi)					
RF Channels per Sector	Four 40 watts channels					
3500 MHz Antenna Data						
Antenna Model (Max. Gain)	Samsung XXDWMM-12.5-65-8T-C BRS (12.7 dBi)					
RF Channels per Sector	Four 5-watt channels					
3700 MHz Antenna Data						
Antenna Model (Max. Gain)	Samsung MT6407-77A (25.5 dBi)					
RF Channels per Sector	Two 50-watt channels					

The antenna vertical-plane radiation pattern is used in the calculations of RF levels at street level around a site. Figure 1 that follows shows the vertical-plane pattern of the proposed antenna model in 700 MHZ band.

In this type of antenna pattern diagram, the antenna is effectively pointed at the three o'clock position (the horizon) and the pattern at different angles is described using decibel units. Note that the use of a decibel scale to describe the relative pattern at different angles actually serves to significantly understate the actual focusing effects of the antenna. Where the antenna pattern reads 20 dB the relative RF energy emitted at the corresponding downward angle is 1/100th of the maximum that occurs in the main beam (at 0 degrees); at 30 dB, the energy is only 1/1000th of the maximum.

Note that the automatic pattern-scaling feature of our internal software may skew side-by-side visual comparisons of different antenna models, or even different parties' depictions of the same antenna model.



Figure 1. Commscope NHH-65B-R2B – 700 MHz Vertical-plane Pattern

As noted at the outset, the assessment will include the RF effects of a hypothetical collocation of three wireless carriers' antennas and we will conservatively assume operation with maximum channel capacity and at maximum transmitter power per channel to be used in each of its FCC-licensed frequency bands.

AT&T is licensed to operate in the 700, 850, 1900, 2100 and 2300 MHz frequency bands. In the 700 MHz band, AT&T uses 370 watts of input power per sector. In the 850 MHz band, AT&T uses 160 watts of input power per sector. In the 1900 MHz band, AT&T uses 160 watts of input power per sector. In the 2100 MHz band, AT&T uses 160 watts of input power per sector. Lastly, in the 2300 MHz band, AT&T uses 100 watts of input power per sector.

DISH Wireless is licensed to operate in 600 MHz, 700 MHz, 1900 MHz and 2100 MHz frequency bands. In the 600 MHz band, DISH uses four 30-watt channels per sector. In the 700 MHz band, DISH uses four 40-watt channels per sector. In the 1900 MHz band, DISH uses four 40-watt channels per sector. Lastly, in the 2100 MHz band, DISH uses four 40-watt channels per sector.

T-Mobile is licensed to operate in the 600 MHz, 700 MHz, 1900 MHz and 2100 MHz frequency bands. In the 600 MHz band, T-Mobile uses four 40-watt channels per sector. In the 700 MHz band, T-Mobile uses one 40-watt channel per sector. In the 1900 MHz band, T-Mobile uses one 40-watt channel and four 30-watt channels per sector. Lastly, in the 2100 MHz band, T-Mobile uses one 40-watt channel and four 30-watt channel and two 60-watt channels per sector.

Compliance Analysis

FCC Office of Engineering and Technology Bulletin 65 ("OET Bulletin 65") provides guidelines for mathematical models to calculate the RF levels at various points around transmitting antennas.

At street-level around an antenna site (in what is called the "far field" of the antennas), the RF levels are directly proportional to the total antenna input power and the relative antenna gain in the downward direction of interest – and the levels are otherwise inversely proportional to the square of the straight-line distance to the antenna.

Conservative calculations also assume the potential RF exposure is enhanced by reflection of the RF energy from the intervening ground. Our calculations will assume a 100% "perfect", mirror-like reflection, which is the absolute worst-case scenario.

The formula for street-level RF compliance calculations for any given wireless antenna operation is as follows:

MPE% = (100 * TxPower * 10 $^{(Gmax-Vdisc/10)}$ * 4) / (MPE * 4π * R^2) where

MPE%	=	RF level, expressed as a percentage of the MPE limit applicable to continuous exposure of the general public
100	=	factor to convert the raw result to a percentage
TxPower	=	maximum net power into antenna sector, in milliwatts, a function of the number of channels per sector, the transmitter power per channel, and line loss

10 ^(Gmax-Vdisc/10)	=	numeric equivalent of the relative antenna gain in the downward direction of interest, referenced to any applied antenna mechanical downtilt; data on the antenna vertical-plane pattern is taken from manufacturer specifications
4	=	factor to account for a 100-percent-efficient energy reflection from the ground, and the squared relationship between RF field strength and power density $(2^2 = 4)$
MPE	=	FCC general population MPE limit
R	=	straight-line distance from the RF source to the point of interest, centimeters

The street-level MPE% calculations are performed out to a distance of 500 feet from the facility to points 6.5 feet (approximately two meters, the FCC-recommended standing height) off the ground, as illustrated in the Figure 2, below.



Figure 2. MPE% Calculation Geometry

It is popularly understood that the farther away one is from an antenna, the lower the RF level – which is generally but not universally correct. The results of MPE% calculations fairly close to the site will reflect the variations in the vertical-plane antenna pattern as well as the variation in straight-line distance to the antennas.

Therefore, RF levels may actually increase slightly with increasing distance within the range of zero to 500 feet from the site. As the distance approaches 500 feet and beyond, though, the antenna pattern factor becomes less significant, the RF levels become primarily distance-controlled and, as a result, the RF levels generally decrease with increasing distance. In any case, the RF levels more than 500 feet from a wireless antenna site are well understood to be sufficiently low to be comfortably in compliance.

FCC compliance for a collocated antenna site is assessed in the following manner. At each distance point along the ground, an MPE% calculation is made for each antenna operation (including each frequency band), and the sum of the individual MPE% contributions at each point is compared to 100 percent, the normalized reference for compliance with the MPE limit. We refer to the sum of the individual MPE% contributions as "total MPE%", and any calculated total MPE% result exceeding 100 percent is, by definition, higher than the FCC limit and represents non-compliance and a need to mitigate the potential exposure. If all results are consistently below 100 percent, on the other hand, that set of results serves as a clear and sufficient demonstration of compliance with the MPE limit.

Note that according to the FCC, when directional antennas (e.g., panels or dishes) are involved, the compliance assessments are based on the RF effect of a single (facing) sector or antenna, as the RF effects of directional antennas facing generally away from the point of interest are insignificant.

The following conservative methodology and assumptions are incorporated into the MPE% calculations on a general basis:

- 1. The antennas are assumed to be operating continuously at maximum power and maximum channel capacity.
- 2. The power-attenuation effects of shadowing or other obstructions to the line-of-sight path from the antenna to the point of interest are ignored.
- The calculations intentionally minimize the distance factor (R) by assuming a 6'6" human and performing the calculations from the bottom (rather than the centerline) of each operator's lowest-mounted antenna, as applicable.

- 4. The calculations also conservatively take into account, when applicable, the different technical characteristics and related RF effects of the use of multiple antennas for transmission in the same frequency band.
- 5. The RF exposure at ground level is assumed to be 100-percent enhanced (increased) via a "perfect" field reflection from the intervening ground.

The net result of these assumptions is to significantly overstate the calculated RF exposure levels relative to the levels that will actually occur – and the purpose of this conservatism is to allow very "safe-side" conclusions about compliance.

The tables that follow provide the results of the MPE% calculations for each antenna operation, with the maximum (worst-case) overall result highlighted in bold in the last column of the last table.

Subtotal MPE%	0.5044	0.4798	0.2856	0.4382	0.4694	0.6757	0.9596	0.9052	0.7432	0.6722	1.0535	1.2294	1.3530	1.2260	0.8955	0.6256	0.3626	0.4307	0.6418	1.0099	1.5442	1.6010	1.9686	2.7318	2.7860	2.5715
Verizon Wireless 3700 MHz MPE%	0.4020	0.3749	0.1133	0.1657	0.1919	0.0269	0.1360	0.4429	0.4264	0.3758	0.5922	0.6798	0.6382	0.5130	0.2386	0.0995	0.0174	0.1426	0.3896	0.7563	1.2262	1.1220	1.5238	2.0761	1.9181	1.7647
Verizon Wireless 3500 MHz MPE%	0.0003	0.0021	0.0034	0.0024	0.0003	0.0046	0.0115	0.0180	0.0169	0.0080	0.0025	0.0002	0.0037	0.0107	0.0213	0.0256	0.0309	0.0412	0.0448	0.0478	0.0435	0.0447	0.0461	0.0465	0.0430	0.0427
Verizon Wireless 2100 MHz MPE%	0.0080	0.0174	0.0510	0.0741	0.0045	0.0194	0.1719	0.2525	0.0100	0.0109	0.0342	0.0700	0.0461	0.0580	0.0874	0.0693	0.0426	0.0441	0.0401	0.0226	0.0066	0.0134	0.0123	0.0388	0.0586	0.0543
Verizon Wireless 1900 MHz MPE%	0.0007	0.0001	0.0097	0.0277	0.0358	0.4673	0.5324	0.0152	0.0341	0.0116	0.0586	0.0121	0.0509	0.0695	0.0524	0.0327	0.0307	0.0284	0.0161	0.0026	0.0031	0.0185	0.0170	0.0325	0.0305	0.0283
Verizon Wireless 850 MHz MPE%	0.0883	0.0846	0.0845	0.0270	0.0110	0.0516	0.0870	0.1564	0.1812	0.0825	0.0249	0.0421	0.1269	0.1457	0.1737	0.1572	0.1001	0.0558	0.0197	0.0019	0.0083	0.0448	0.0411	0.1028	0.1887	0.1748
Verizon Wireless 700 MHz MPE%	0.0052	0.0006	0.0236	0.1413	0.2259	0.1059	0.0208	0.0202	0.0745	0.1832	0.3412	0.4251	0.4872	0.4291	0.3221	0.2414	0.1409	0.1186	0.1316	0.1787	0.2564	0.3576	0.3283	0.4350	0.5471	0.5068
Ground Distance (ft)	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500

Ground Distance (ft)	Subtotal MPE%	AT&T MPE%	DISH Wireless MPE%	T-Mobile MPE%	Total MPE%
0	0.5044	0.0952	0.0095	0.0263	0.6354
20	0.4798	0.1223	0.0440	0.0414	0.6875
40	0.2856	0.2518	0.0495	0.1014	0.6883
60	0.4382	0.4629	0.1462	0.0836	1.1309
80	0,4694	0.5418	0.3138	0.3956	1.7206
100	0.6757	0.3397	0.6633	0.6903	2.3690
120	0.9596	0.2360	1.2347	0.3227	2.7530
140	0.9052	0.6093	0.4087	0.1153	2.0385
160	0.7432	0.8701	0.1816	0.1070	1.9019
180	0.6722	0.9829	0.1335	0.1234	1.9120
200	1.0535	0.8598	0.3641	0.1332	2.4106
220	1.2294	0.7083	0.2550	0.1049	2.2976
240	1.3530	0.5829	0.1867	0.1075	2.2301
260	1.2260	0.4072	0.2225	0.1214	1.9771
280	0.8955	0.2682	0.1961	0.1197	1.4795
300	0.6256	0.1336	0.1364	0.1165	1.0121
320	0.3626	0.1861	0.1584	0.1253	0.8324
340	0.4307	0.3112	0.1416	0.1426	1.0261
360	0.6418	0.4881	0.2340	0.1439	1.5078
380	1.0099	0.6786	0.3205	0.1509	2.1599
400	1.5442	0.6169	0.3985	0.1184	2.6780
420	1.6010	0.7803	0.3634	0.0687	2.8134
440	1.9686	0.9365	0.4609	0.0501	3.4161
460	2.7318	0.8610	0.6333	0.0274	4.2535
480	2.7860	1.0286	0.5837	0.0315	4.4298
500	2.5715	0.9516	0.5397	0.0292	4.0920

As indicated, even with the significant degree of conservatism built into the calculations, the maximum calculated RF level is 4.4298 percent of the FCC general population MPE limit – well below the 100-percent reference for compliance.

A graph of the overall street-level calculation results, provided on the next page, provides a clearer *visual* illustration of the relative insignificance of the calculated RF levels. The line representing the overall calculation results barely rises above the graph's baseline, and shows an obviously clear, consistent margin to the FCC MPE limit.



Compliance Conclusion

According to the FCC, the FCC MPE limit has been constructed in such a manner that continuous human exposure to RF emissions up to and including 100 percent of the MPE limit is acceptable and safe.

As described, the analysis in this case shows that the maximum calculated RF level from the combination proposed operations at the site, is 4.4298 percent of the FCC MPE limit. In other words, the worst-case calculated RF level from the antenna operations is more than 20 times below the limit established as safe for continuous human exposure to the RF emissions from antennas.

The results of the calculations provide a clear demonstration of compliance with the FCC MPE limit. Moreover, because of the conservative calculation methodology and operational assumptions we applied in the analysis, RF levels actually caused by the antennas will be even less significant than the calculation results here indicate.

CERTIFICATION

The undersigned verify as follows:

- 1. We have read and are familiar with the FCC regulations concerning RF safety and the control of human exposure to RF fields (47 CFR 1.1301 *et seq*).
- 2. To the best of our knowledge, the statements and information disclosed in this report are true, complete and accurate.
- 3. The analysis of site RF compliance provided herein is consistent with the applicable FCC regulations, additional guidelines issued by the FCC, and industry practice.
- 4. The results of the assessment indicate that the subject antenna operations were in full compliance with the FCC regulations concerning the control of potential RF exposure on the date tested.

Daniel J Collins Chief Technical Offic NE Peter M. ond Principal PML Consulting Engil New York License No. 0

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Date

Appendix A. Background on the FCC MPE Limit

FCC Rules and Regulations

As directed by the Telecommunications Act of 1996, the FCC has established limits for maximum continuous human exposure to RF fields.

The FCC maximum permissible exposure (MPE) limits represent the consensus of federal agencies and independent experts responsible for RF safety matters. Those agencies include the National Council on Radiation Protection and Measurements (NCRP), the Occupational Safety and Health Administration (OSHA), the National Institute for Occupational Safety and Health (NIOSH), the American National Standards Institute (ANSI), the Environmental Protection Agency (EPA), and the Food and Drug Administration (FDA). In formulating its guidelines, the FCC also considered input from the public and technical community – notably the Institute of Electrical and Electronics Engineers (IEEE).

The FCC's RF exposure guidelines are incorporated in Section 1.301 *et seq* of its Rules and Regulations (47 CFR 1.1301-1.1310). Those guidelines specify MPE limits for both occupational and general population exposure.

The specified continuous exposure MPE limits are based on known variation of human body susceptibility in different frequency ranges, and a Specific Absorption Rate (SAR) of 4 watts per kilogram, which is universally considered to accurately represent human capacity to dissipate incident RF energy (in the form of heat). The occupational MPE guidelines incorporate a safety factor of 10 or greater with respect to RF levels known to represent a health hazard, and an additional safety factor of five is applied to the MPE limits for general population exposure. Thus, the general population MPE limit has a built-in safety factor of more than 50. The limits were constructed to appropriately protect humans of both sexes and all ages and sizes and under all conditions – and continuous exposure at levels equal to or below the applicable MPE limits is considered to result in no adverse health effects or even health risk.

The reason for *two* tiers of MPE limits is based on an understanding and assumption that members of the general public are unlikely to have had appropriate RF safety training and may not be aware of the exposures they receive; occupational exposure in controlled environments, on the other hand, is assumed to involve individuals who have had such training, are aware of the exposures, and know how to maintain a safe personal work environment.

The FCC's RF exposure limits are expressed in two equivalent forms, using alternative units of field strength (expressed in volts per meter, or V/m), and power density (expressed in milliwatts per square centimeter, or mW/cm²). The table on the next page lists the FCC limits for both occupational and general population exposures, using the mW/cm² reference, for the different radio frequency ranges.

Frequency Range (F) (MHz)	Occupational Exposure (mW/cm²)	General Public Exposure (mW/cm²)
0.3 - 1.34	100	100
1.34 - 3.0	100	180 / F²
3.0 - 30	900 / F ²	180 / F²
30 - 300	1.0	0.2
300 - 1,500	F / 300	F / 1500
1,500 - 100,000	5.0	1.0

The diagram below provides a graphical illustration of both the FCC's occupational and general population MPE limits.



Because the FCC's MPE limits are frequency-shaped, the exact MPE limits applicable to the instant situation depend on the frequency range used by the systems of interest.

The most appropriate method of determining RF compliance is to calculate the RF power density attributable to a particular system and compare that to the MPE limit applicable to the operating frequency in question. The result is usually expressed as a percentage of the MPE limit.

For potential exposure from multiple systems, the respective percentages of the

MPE limits are added, and the total percentage compared to 100 (percent of the limit). If the result is less than 100, the total exposure is in compliance; if it is more than 100, exposure mitigation measures are necessary to achieve compliance.

Note that the FCC "categorically excludes" certain types of antenna facilities from the routine requirement to specifically (i.e., mathematically) demonstrate compliance with the MPE limit. Among those types of facilities are cellular antennas mounted on any type of tower, when the bottoms of the antennas are more than 10 meters (c. 32.8 feet) above ground. The basis for the categorical exclusion, according to the FCC, is the understanding that because of the low power and the directionality of the antennas, such facilities – individually and collectively – are well understood to have no significant effect on the human environment. As a result, the FCC automatically deems such facilities to be in compliance.

In addition, FCC Rules and Regulations Section 1.1307(b)(3) describes a provision known in the industry as "the 5% rule". It describes that when a specific location – like a spot on a rooftop – is subject to an overall exposure level exceeding the applicable MPE limit, operators with antennas whose MPE% contributions at the point of interest are less than 5% are exempted from the obligation otherwise shared by all operators to bring the site into compliance, and those antennas are automatically deemed by the FCC to satisfy the rooftop compliance requirement.

FCC References on Compliance

47 CFR, FCC Rules and Regulations, Part 1 (Practice and Procedure), Section 1.1310 (Radiofrequency radiation exposure limits).

FCC Second Memorandum Opinion and Order and Notice of Proposed Rulemaking (FCC 97-303), *In the Matter of Procedures for Reviewing Requests for Relief From State and Local Regulations Pursuant to Section 332(c)(7)(B)(v) of the Communications Act of 1934 (WT Docket 97-192), Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation (ET Docket 93-62), and Petition for Rulemaking of the Cellular Telecommunications Industry Association Concerning Amendment of the Commission's Rules to Preempt State and Local Regulation of Commercial Mobile Radio Service Transmitting Facilities,* released August 25, 1997.

FCC First Memorandum Opinion and Order, ET Docket 93-62, *In the Matter of Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation*, released December 24, 1996.

FCC Report and Order, ET Docket 93-62, *In the Matter of Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation*, released August 1, 1996.

FCC Office of Engineering and Technology (OET) Bulletin 65, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields", Edition 97-01, August 1997.



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Mox. Height	2-1/2 Stories/35'	1-1/2 Stories/±20'	±9' (Equipment Conopy)		sc	HERER DESIGN	GROUP	Į.
Min. Front Yord	50'	±25' *	±189'-7"					
Min, Side Yard	30'	±65'	±62'-3"			1		
	30'	±148'	±181'					
Min. Rear Yord		±3%	±3.35%			100 Cocearate Drive	Suite 202	
Mox. Building Coverage	65% OF F.A.R					Debanon, T. L	88,03	
Min. Landscape Coverage	60%	±72%	±69%			Ph 998-821 250 Day	108.323.2636 1000.0017	
WIRELESS ORDINANCE						SZ SA	a Kelst	5
	REQUIRED	EXISTING	PROPOSED		1	10 1A	111)
(CHAPTER 277)		N/A	±345'				₩.1€	1
Neorest Residential Structure			±196'		1	1 MANA	MUMBER	
Nearest Habitable Structure	N/A	N/A			1			
Proposed Utilities	Installed	N/A	installed Underground			VIOLATION OF THE LA	NEER ANY PERSON.	
	140'/				U	NITS RETING UNDER THE OVE	ACT OF A UCENS	ED
Mox. Tower Height Tower Setback From	3 Corriers 1/2 The Height	N/A	± 140°		1	NI SUPERING UIDER THEOR END LER TO ALER THIS D SIGNATULE AMONG AND AND A	/	L
Property Line	Of The Tower (70')	N/A	±84'-3"	-	_	APPLICA	NT:	
	• = EXISTING NO	N-CONFORMITY						
BULK REQUIREMENTS								
E: NTS 22x34 SCALE	E: NTS							
PLAN AND PROPERTY LINE DATA S	HOWN WAS DERIVED FRO	M THE WESTCHESTER CO	UNTY GIS (LAST			HOMELAND	TOWERS	
ISED OCTOBED 2015) FYISTING CO	NDITIONS SURVEY BY CO	PPENS LAND SURVEYING (DATED 11/14/19},					
D MEASUREMENTS PERFORMED BY	' SCHERER DESIGN GROU	P AND AERIAL PHOTOGRA	PHY.			9 HARMONY ST, DANBURY C		
OVERALL SITE PLAN DOES NOT CO	INSTITUTE A BOUNDARY S	URVET.		11		Drittoortrio	100010	
ED ON FIELD WORK PERFORMED NO	OVEMBER 2019.							
UM (ESTABLISHED WITH GPS) (IZONTAL: NAD83, NEW YORK EAST F	PLANE			-	6	CLIENT COMMENT	S 08/10/22	RR
TICAL: NAVD88 (Geold12a)					Ů	OLICITI OOMMENT	0 001 10720	
ERENCES: 4.1. WESTCHESTER COUNTY GIS N	APPING				5	CLIENT COMMENT	S 07/08/22	RR
4.2. TOWN OF CORTLANDT TAX MA	P 44.07				-			-
4.3, DEED CONTROL NO. 493503018		\ \			4	CLIENT COMMENT	s 03/08/22	RR
4.4. "LAND SURVEY MAP PREPARE & JOANNE MANN-VITOLO BY	D FOR ROBERT A. VITOLO)			4	CEIENT COMMENT	0 00/00/2E	
DATED MARCH 2, 2002.					3	RF UPDATE	08/05/21	YM
ED ON FINDINGS CONTAINED IN ATT SSUED BY BARTECH TITLE AGENCY	INC., DATED OF DECEMBE	R 7, 2016.	3	-	2	ATTORNEY	12/17/20	AL
UNDERGROUND UTILITY SEARCH WA	INCE/LOCATIONS, THE CO	NTRACTOR SHALL COORD	INATE		-	COMMENTS		
H THE UTILITY COMPANIES AND MEE SPECIFICATIONS.	T ALL CURRENT UTILITY	COMPANY REQUIREMENTS		1	NO.	ISSUE OR REVISIO	DN DATE	BY
PROPOSED LISE OF THE DEVELOPM	IENT IS FOR AN UNMANNE	D WIRELESS COMMUNICA	TION			PROJECT	TITLE:	
ILITY, THE FACILITY WILL NOT BE ST ROXIMATELY ONCE PER MONTH. TH	AFFED FULL TIME. IT WILL	BE VISITED FOR MAINTEN	ANCE	-	-			
ROPOSED GRAVEL AREA.						PRELIMIN SITE PL		
ESS TO THE SITE WILL BE VIA A PRO CE THE SITE IS UNMANNED.	POSED DRIVEWAY. TRAF	FIC IMPACTS WILL BE NEG	LIGIBLE			CORTLA	NDT	
ITARY AND WATER FACILITIES ARE I	NOT REQUIRED. ELECTRIC	AND TELEPHONE ARE TH MEXISTING SERVICES.	EONLY			52 MONTROSE S CORTLANDT.		
THES HEAT AND INCOMED, UTLETE						WESTCHESTER		
TER COURSES OR FLOOD PLAINS WI	LL NOT BE AFFECTED BY	ITIG FROF OGAL.					OT (
TER COURSES OR FLOOD PLAINS WI	NOT EXCEED 1 ACRE. A GE	NERAL PERMIT				BLOCK: 1 I ZONE: F		
TER COURSES OR FLOOD PLAINS WI TOTAL SOIL DISTURBANCE SHALL N STORMWATER DISCHARGES FROM L EROSION AND SEDIMENT CONTRO	OT EXCEED 1 ACRE. A GE CONSTRUCTION ACTIVIT	ENERAL PERMIT ES IS NOT REQUIRED.	AREA OF				-40	
TER COURSES OR FLOOD PLAINS WI TOTAL SOIL DISTURBANCE SHALL N STORMWATER DISCHARGES FROM EROSION AND SEDIMENT CONTRO FURBANCE IS LESS THAN 1 ACRE.	NOT EXCEED 1 ACRE. A GE I CONSTRUCTION ACTIVIT L PERMIT IS NOT REQUIRE	ENERAL PERMIT ES IS NOT REQUIRED. ED SINCE THE PROPOSED			sc	ZONE: F	-40	/20
TER COURSES OR FLOOD PLAINS WI TOTAL SOIL DISTURBANCE SHALL N STORMWATER DISCHARGES FROM LEROSION AND SEDIMENT CONTRO TURBANCE IS LESS THAN 1 ACRE.	NOT EXCEED 1 ACRE. A GE I CONSTRUCTION ACTIVIT L PERMIT IS NOT REQUIRE	ENERAL PERMIT ES IS NOT REQUIRED. ED SINCE THE PROPOSED				ZONE: F SDG PROJECT # ALE: AS NOTED	-40 4: 16VZN071 DATE: 08/31	
TER COURSES OR FLOOD PLAINS WI TOTAL SOIL DISTURBANCE SHALL N STORMWATER DISCHARGES FROM LEROSION AND SEDIMENT CONTRO FURBANCE IS LESS THAN 1 ACRE. OPOSED FACILITY WILL BE MONITOR VER LIGHTING IS NOT PROPOSED.	NOT EXCEED 1 ACRE. A GE I CONSTRUCTION ACTIVIT L PERMIT IS NOT REQUIRE ED 24 HOURS A DAY, 7 DA	ENERAL PERMIT ES IS NOT REQUIRED. ED SINCE THE PROPOSED YS A WEEK FROM A REMO		-		ZONE: F SDG PROJECT # ALE: AS NOTED DRAWN BY: JM	-40 #: 16VZN071 DATE: 08/31, CHECKED BY	
TER COURSES OR FLOOD PLAINS WI TOTAL SOIL DISTURBANCE SHALL N STORMWATER DISCHARGES FROM L EROSION AND SEDIMENT CONTRO FURBANCE IS LESS THAN 1 ACRE. OPOSED FACILITY WILL BE MONITOR VER LIGHTING IS NOT PROPOSED. ISH DISPOSAL IS NOT REQUIRED IN G CONTRACTOR SHALL ABIDE BY ALL	OT EXCEED 1 ACRE. A GE CONSTRUCTION ACTIVIT L PERMIT IS NOT REQUIRE ED 24 HOURS A DAY, 7 DA CONNECTION WITH THE P	ENERAL PERMIT ES IS NOT REQUIRED. ED SINCE THE PROPOSED YS A WEEK FROM A REMO ROPOSED INSTALLATION.		-		ZONE: F SDG PROJECT # ALE: AS NOTED	-40 #: 16VZN071 DATE: 08/31, CHECKED BY	
FER COURSES OR FLOOD PLAINS WI	NOT EXCEED 1 ACRE. A GE I CONSTRUCTION ACTIVIT L PERMIT IS NOT REQUIRE ED 24 HOURS A DAY, 7 DA CONNECTION WITH THE P , CURRENT LOCAL, STATE	ENERAL PERMIT ES IS NOT REQUIRED. ED SINCE THE PROPOSED YS A WEEK FROM A REMO ROPOSED INSTALLATION. , AND NATIONAL CODES ITTACHED SHALL BE CONFI	TE LOCATION. RMED TO	-	C	ZONE: F SDG PROJECT # ALE: AS NOTED DRAWN BY: JM	-40 =: 16VZN071 DATE: 08/31: CHECKED BY TITLE:	: SK
TER COURSES OR FLOOD PLAINS WI TOTAL SOIL DISTURBANCE SHALL N STORMWATER DISCHARGES FROM L EROSION AND SEDIMENT CONTRO TURBANCE IS LESS THAN 1 ACRE. DPOSED FACILITY WILL BE MONITOR VER LIGHTING IS NOT PROPOSED. ASH DISPOSAL IS NOT REQUIRED IN G CONTRACTOR SHALL ABIDE BY ALL TARE APPLICABLE. TOWER WITH ALL PROPOSED EQUI ET OR EXCEED THE REQUIREMENTS V YORK AND TIA-222-H.	NOT EXCEED 1 ACRE. A GE I CONSTRUCTION ACTIVIT L PERMIT IS NOT REQUIRE ED 24 HOURS A DAY, 7 DA CONNECTION WITH THE P , CURRENT LOCAL, STATE	ENERAL PERMIT ES IS NOT REQUIRED. ED SINCE THE PROPOSED YS A WEEK FROM A REMO ROPOSED INSTALLATION. , AND NATIONAL CODES ITTACHED SHALL BE CONFI	TE LOCATION. RMED TO		C	ZONE: F SDG PROJECT # ALE: AS NOTED DRAWN BY: JM DRAWING	-40 =: 16VZN071 DATE: 08/31: CHECKED BY TITLE:	: SK ES
TER COURSES OR FLOOD PLAINS WI TOTAL SOIL DISTURBANCE SHALL N STORMWATER DISCHARGES FROM L EROSION AND SEDIMENT CONTRO TURBANCE IS LESS THAN 1 ACRE. PROSED FACILITY WILL BE MONITOR VER LIGHTING IS NOT PROPOSED. ISH DISPOSAL IS NOT REQUIRED IN G CONTRACTOR SHALL ABIDE BY ALL TARE APPLICABLE.	NOT EXCEED 1 ACRE. A GE I CONSTRUCTION ACTIVIT L PERMIT IS NOT REQUIRE ED 24 HOURS A DAY, 7 DA CONNECTION WITH THE P , CURRENT LOCAL, STATE	ENERAL PERMIT ES IS NOT REQUIRED. ED SINCE THE PROPOSED YS A WEEK FROM A REMO ROPOSED INSTALLATION. , AND NATIONAL CODES ITTACHED SHALL BE CONFI	TE LOCATION. RMED TO		C	ZONE: F SDG PROJECT # ALE: AS NOTED DRAWN BY: JM DRAWING SITE PLANS AND SI	-40 I: 16VZN071 DATE: 08/31: CHECKED BY TITLE: TE PLAN NOT	: SK ES

Wooded Area		NANCE DISTRICT	R_40				
Extents Of Setbocks		N 307-17)	REQUIRED	EXISTING	PROPOSED		
Existing Residence		Lot Area	40.000 SF	261,664 SF	No Change		
Existing Fire Hydront -		ot Width	150'	552'	No Chonge		
Existing Barn	Mox.	Height	2-1/2 Stories/35'	1-1/2 Stories/±20'	±9' (Equipment Conopy)	SCHERER DESIGN	GROUP
the liter is the state of the s	Min Fr	ront Yard	50°	±25° *	±189'-7"		
PROPOSED UTILITY POLE		ide Yard	30*	±65'	±62'-3"		
Existing Utility Pole		ear Yard	30'	±148'	±181'		
		ing Coverage	65% OF F.A.R	±3%	±3.35%	100 eoporate pr	ive Solte 202
		ape Coverage	60%	±72%	±69%	Ph 598.823,25030	A 908-323-2635
50'-0" Front Yard						T when Schererdes	gngkop.bom
PROPOSED UTILITIES TO BE	WIRELESS OR				PROPOSED	0 0 10 10	(*) 1*D
TRENCHED ALONG		ER 277)	REQUIRED	EXISTING N/A	±345'	× 1 × 1	
Shed		entiol Structure	N/A	N/A	±196'	1 CHILLING	LONGAL SA
Wooded Area			Installed	N/A	Installed	C Y PROFESSIONAL	BUSHNEER OF KIS
Existing	Propose	d Utilities	Underground	N/A	Underground	UNITED RETING UNDER THE	LAW KER ANY RERSON.
DRIVEWAY	Mox. Tax	rer Height	140 [°] / 3 Corriers	N/A	±140°	END LEP TO A TER THIS SIGNATURE AND SEAL NO.	HOCHNERS ORIGINAL.
~Wooded Area~		bock From ty Line	1/2 The Height Of The Tower (70')	N/A	±84'-3"	APPLI	Other
30 yalt in the second			• = EXISTING NO	N-CONFORMITY			
PROPOSED COMPOUND AREA							
SEE 1/24 FOR DETAILED LAYOUT		UIREMENTS					
Reor	11x17 SCALE: NTS	22x34 SCALE: N	ns				
Nord Sourd	DEVISED OCTORED 201	5), EXISTING COND PERFORMED BY SC	ITIONS SURVEY BY CO CHERER DESIGN GROL	OM THE WESTCHESTER CO PPENS LAND SURVEYING (IP AND AERIAL PHOTOGRA SURVEY.	DATED 11/14/19),	HOMELANI 9 HARMONY S DANBURY	F, 2ND FLOOR
	2. BASED ON FIELD WORK	PERFORMED NOVE	EMBER 2019.				
OVERALL SITE PLAN 0 100' 200'	3. DATUM (ESTABLISHED V	VITH GPS)					
1"= 200'-0" 22x34 SCALE: 1" = 100'-0"	HORIZONTAL: NAD83, NI VERTICAL: NAVD88 (Geo	EW YORK EAST PLA	NE			6 CLIENT COMME	NTS 08/10/22 RR
	4.2. TOWN OF COF 4.3. DEED CONTRO 4.4. "LAND SURVE	Y MAP PREPARED		0		5 CLIENT COMME 4 CLIENT COMME	NTS 03/08/22 RR
PROPOSED 56' RADIUS MONOPOLE COLLAPSE ZONE			NEYS SEARCH REPOR	T, SEARCH NO. SSBT-1548	3	3 RF UPDATE	08/05/21 YM
in the second seco	6. AN UNDERGROUND UT	LITY SEARCH WAS I	NOT PERFORMED ON T		INATE	2 ATTORNEY COMMENTS	
	AND SPECIFICATIONS.					PROJEC	
	EAOU ITY THE EAOU ITY	MALE NOT DE CTAE	CED FUEL TIME IT WILL	ED WIRELESS COMMUNICA BE VISITED FOR MAINTEN PARK NEAR THE COMPOUN	ANCE	PROJEC	
	A PROPOSED GRAVEL A	AREA.		FIC IMPACTS WILL BE NEG		SITE	
	SINCE THE SITE IS UNM	ANNED.				CORTL	
	UTILITIES THAT ARE RE	QUIRED. UTILITIES	WILL BE PROVIDED FR			52 MONTROSE CORTLAND WESTCHEST	F, NY 10567
	10. WATER COURSES OR F 11. THE TOTAL SOIL DISTUR					BLOCK:	
	FOR STORMWATER DIS	CHARGES FROM CO	DNSTRUCTION ACTIVIT	IES IS NOT REQUIRED.		ZONE	
	12. SOIL EROSION AND SEE DISTURBANCE IS LESS	THAN 1 ACRE.				SDG PROJEC	F #: 16VZN071
	13. PROPOSED FACILITY W		24 HOURS A DAY, 7 DA	YS A WEEK FROM A REMO	TE LOCATION.	SCALE: AS NOTED	DATE: 08/31/20
ALE SIDE INTO	14. TOWER LIGHTING IS NO					DRAWN BY: JM	CHECKED BY: SK
the second	15. TRASH DISPOSAL IS NO 17. THE CONTRACTOR SHA	LL ABIDE BY ALL CI				DRAWIN	G TITLE:
	THAT ARE APPLICABLE.			TTACHED SHALL BE CONFI DING CODE, 2020, AS ADOF	RMED TO TED BY	SITE PLANS AND	SITE PLAN NOTES
	NEW YORK AND TIA-222	-н.				DRAWING NO.:	PAGE NO.:
DETAILED SITE PLAN 0 16' 32'	4 SITE PLAN	NOTES					
DETAILED STEEFLAN 0 10 02 1/32"= 1'-0" 22x34 SCALE: 1/16" = 1'-0" 1/32" 1/32"	11x17 SCALE: NTS	22x34 SCALE:	NTS			Z3	3 of 13





)" +/- AGL F PROPOSED ING ROD " +/- AGL ANTENNAS/ MONOPOLE +/- AGL ANTENNAS +/- AGL ANTENNAS +/- AGL ITER +/- AGL ARRIER TOP OF ANTENNAS +/- AGL ARRIER RAD CENTER		NY PPHEN	ive, Sui	te 202				
HL KOINT		HOMELANE 9 HARMONY ST DANBURY	ото					
	6	CLIENT COMME	NTS	08/10/22	RR			
	5	CLIENT COMME	NTS	07/08/22	RR			
	4	CLIENT COMME	NTS	03/08/22	RR			
	3	RF UPDATE		08/05/21	YM			
	2	ATTORNEY COMMENTS		12/17/20	AL			
HIGH CHAIN	NO.	ISSUE OR REVIS	SION	DATE	BY			
NITH PRIVACY SLATS		PROJEC	τ τιτι	LE:				
osed verizon Anopy		PRELIMINARY SITE PLAN						
PROPOSED VERIZON GPS CES ATTACHED TO								
POSED ICE CANOPY		CORTLANDT 52 MONTROSE STATION RD CORTLANDT, NY 10567 WESTCHESTER COUNTY						
9'-0" +/- AGL TOP OF ICE CANOPY		BLOCK: ZONE:						
		SDG PROJEC	Т #: 16	VZN071				
	so	CALE: AS NOTED	DA	TE: 08/31/2	20			
		DRAWN BY: JM	CHE	CKED BY:	SK			
		DRAWIN	G TITI	_E:				
		ELEVA	TIONS	6				
10' 20'		DRAWING NO.:		PAGE NO.:				
10' 20'	- 1			5 of 13				



145'-0" +/- AGL TOP OF PROPOSED LIGHTNING ROD 140'-0" +/- AGL TOP OF ANTENNAS/ TOP OF MONOPOLE _138'-6" +/- AGL TOP OF ANTENNAS _137'-6" +/- AGL TOP OF ANTENNAS _137'-0" +/- AGL TOP OF ANTENNAS _137'-0" +/- AGL TUTURE CARRIER TOP OF ANTENNAS _27'-0" +/- AGL _UTURE CARRIER RAD CENTER		River 22,20 Di Source and Source		R & UZA	
+/- AGL BREAK POINT		HOMELANI 9 HARMONY S DANBURY	T, 2N(FLOOR	
	6	CLIENT COMME	NTS	08/10/22	RR
	5	CLIENT COMME	NTS	07/08/22	RR
	4	CLIENT COMME	NTS	03/08/22	RR
	3	RF UPDATE		08/05/21	YM
	2	ATTORNEY		12/17/20	AL
	NO.	COMMENTS		DATE	BY
		PROJEC	_		
	┢	PRELIM	IINAF	RY	
	\vdash	SITE I			-
		52 MONTROSE CORTLAND WESTCHEST	T, NY	10567	
		BLOCK: ZONE			
AGL - AMSL	-	SDG PROJEC	T #: 10	6VZN071	_
- AMDL	sc	ALE: AS NOTED	DA	ATE: 08/31/2	20
	C	DRAWN BY: JM	СН	ECKED BY:	sĸ
		DRAWIN	G TIT	LE:	
		ELEVA	TION	S	
10' 20'	1	DRAWING NO .:		PAGE NO.:	
		Z6	_	6 of 13	







24x36 SCALE: NTS

11x17 SCALE: NTS

SCHERER DESIGN GROUP						
100 Contrate Time, Suite 202 FLebarron WJ 08635 Hoge 252557 For 006-3858525 Hoge 252577 For 006-38585 Hoge 252577 For 006-38585 Hoge 252577 For 006-38585 Hoge 252577 For 006-38585 Hoge 252577 Hoge 2525777 Hoge 252577 Hoge 2525777 Hoge 2525777 Hoge 2525777 Hoge 2525777 Hoge 2525777 Hoge 2525777 Hoge 25257777 Hoge 25257777 Hoge 25257777 Hoge 25257777 Hoge 252577777 Hoge 252577777 Hoge 252577777 Hoge 2525777777 Hoge 25257777777777777777777777777777777777						
HOMELAND TOWERS 9 HARMONY ST, 2ND FLOOR DANBURY CT, 06810						
6	CLIENT COMME	08/10/22	RR			
5	CLIENT COMME	07/08/22	RR			
4	CLIENT COMME	NTS	03/08/22	RR		
3	RF UPDATE		YM			
2	ATTORNEY COMMENTS		12/17/20	AL		
NO.	ISSUE OR REVIS	SION DATE				
	PROJEC	т тіт	LE:			
	PRELIM SITE I					
	CORTL	ANDT				
52 MONTROSE STATION RD CORTLANDT, NY 10567 WESTCHESTER COUNTY						
BLOCK: 1 LOT: 4 ZONE: R-40						
SDG PROJECT #: 16VZN071						
SCALE: AS NOTED DATE: 08/31/20						
	DRAWN BY: JM		CKED BY:	SK		
_	DRAWIN	g titi	_E:			
GENERATOR SPECIFICATIONS						
DRAWING NO.: PAGE NO.:						
Z9 9 of 13						

		0	Co-Owner	Owner Address 2	Owner City	Owner Zip	10	
	b. Street Name	Owner	co-Owner	32 MONTROSE STATION RD	CORTLANDT MANOR, NY			
32	MONTROSE STATION RD			540 NORTH STATE, SUITE 7	BRIARCLIFF MANOR, NY			Cash
2091	MAPLEAVE	S4K MAPLE AVE LLC			CORTLANDT MANOR, NY			
5	MONTROSE STATION RD			5 MONTROSE STATION RD			SCHERER DESIGN	GROUP
2094	MAPLEAVE	ARTOPE WESTLEY	MONTAGUE CLARA M	2094 MAPLE AVE	CORTLANDT MANOR, NY			
141	FURNACE WOODS RD	CONGREGATION YESHIVATH	OHR HAMEIR	PO BOX 2130	PEEKSKILL, NY	10566		
24	MONTROSE STATION RD	SEIFERHELD REGINA P	C/O RENO	10 SEDGEWICK RD	POUGHKEEPSIE, NY	12603	100 Correcting Drive	Suite 202
0	MONTROSE STATION RD	TOWN OF CORTLANDT		1 HEADY STREET	CORTLANDT MANOR, NY		behanon, W.J.	18833
52	MONTROSE STATION RD	BEZO ENTERPRISES LLC		34 DEARBORN AVENUE	RYE, NY	10580	Wyw.schererdesign	approximition -
310	LAFAYETTE AVE	TRACEY STEVEN J & KATE M		310 LAFAYETTE AVE	CORTLANDT MANOR, NY		LAN SV	· EX Ja
170	FURNACE WOODS RD	SARI JORGE G INGA		170 FURNACE WOODS RD	CORTLANDT MANOR, NY		1 day to	AN IN
2158	MAPLE AVE	COSTABLE HANNAH L/E	COSTABLE JOHN & SEPHEN & PAUL	2158 MAPLE AVE	CORTLANDT MANOR, NY		Follow	CURCELY
2127	MAPLEAVE	FONTANA JOSEPH C & LORRAINE F		2127 MAPLE AVE	CORTLANDT MANOR, NY	-	WY PROPESSION	
0	MAPLEAVE	PERRY ALAN W		2091 MAPLE AVE	CORTLANDT MANOR, NY	10567	UN COLATION OF THE DI	W FOR AN PERSON
2124	MAPLEAVE	SCHMIDT NANCY		2124 MAPLE AVE	CORTLANDT MANOR, NY	10567	SIGNAL PANE SIGNAL	THE PS ORIGINAL.
0	MAPLEAVE	TURNER KIM	KUCNY TOMAS	2137 MAPLE AVE	CORTLANDT MANOR, NY	10567	ABBILIE	ANT
16	MONTROSE STATION RD			540 NORTH STATE RD. SUITE 7	BRIARCLIFF MANOR, NY	10510		
10		PICCIANO PAZ T LIVING TRUST		PO BOX 92	VERPLANCK, NY	10596	10	100
0	MAPLE AVE	TOWN OF CORTLANDT		1 HEADY STREET	CORTLANDT MANOR, NY	10567		and the second se
	MONTROSE STATION RD			27 FLAX POND WOODS RD.	SETAUKET, NY	11733		
30 0		TOWN OF CORTLANDT		1 HEADY STREET	•	10567	HOMELAND	TOWERS
	MAPLEAVE			2177 MAPLE AVE	CORTLANDT MANOR, NY	10567	9 HARMONY ST, DANBURY C	
2177	MAPLEAVE	PALKA RICHARD & MICHELE	ΚUCNY TOMAS	2137 MAPLE AVE	CORTLANDT MANOR, NY	-	DANBURY C	1,06810
2137	MAPLEAVE		REDA PATRICIA	2119 MAPLE AVE	CORTLANDT MANOR, NY	-		
2119	MAPLEAVE	PERRYALAN		148 MARTINE AVE RM 720	WHITE PLAINS, NY	10607	6 CLIENT COMMEN	TS 08/10/22 RF
181	WATCH HILL RD	COUNTY OF WESTCHESTER	BLUE MT RES	39 MONTROSE STATION RD	CORTLANDT MANOR, NY		6 CLIENT COMMEN	15 00/10/22 Kr
39		ERRICO MICHAEL & STEPHANIE				10567	5 CLIENT COMMEN	TS 07/08/22 RF
2100	MAPLEAVE	ALBERTS SANDRA L		2100 MAPLE AVE	VERPLANCK, NY	10596		
33		PICCIANO PAZ LIVING TRUST		216 8TH ST	CORTLANDT MANOR, NY	-	4 CLIENT COMMEN	TS 03/08/22 RF
2170	MAPLEAVE	WHALEN SEAN C	NATHANSON ARIEL B	2170 MAPLE AVE		r l	3 RF UPDATE	08/05/21 YM
57	MONTROSE STATION RD		NOYA-MULLER VANESSA	57 MONTROSE STATION RD	CORTLANDT MANOR, NY	-	ATTORNEY	
26	MONTROSE STATION RD	FEIN JONATHAN L	& KARDOS THERESA E	26 MONTROSE STATION RD	CORTLANDT MANOR, NY	-	2 COMMENTS	12/17/20 AI
174	FURNACE WOODS RD	GARMAJO DARWIN L		174 FURNACE WOODS RD	CORTLANDT MANOR, NY		NO. ISSUE OR REVISIO	ON DATE B
б	MAPLEAVE	TOWN OF CORTLANDT		1 HEADY ST	CORTLANDT MANOR, NY	-		
28	MONTROSE STATION RD	TOWN OF CORTLANDT		1 HEADY ST	CORTLANDT MANOR, NY	-	PROJECT	TITLE:
20	MONTROSE STATION RD	HANLEY JOHN & LINDA		20 MONTROSE STATION RD	CORTLANDT MANOR, NY	_	PRELIMIN	
2146	MAPLE AVE	TATLIAN EDWARD		2146 MAPLE AVE	CORTLANDT MANOR, NY		SITE PL	
9	MONTROSE STATION RD	KEMPSKI MICHAEL	PUSEY-KEMPSKI DAWN	9 MONTROSE STATION RD	CORTLANDT MANOR, NY	-	CORTLA	
2139	MAPLE AVE	MAHONEY SHARRON		2139 MAPLE AVE	CORTLANDT MANOR, NY	-	52 MONTROSE S CORTLANDT,	STATION RD
2117	MAPLEAVE	S4K MAPLE AVE LLC		540 NORTH STATE RD. SUITE 7	BRIARCLIFF MANOR, NY	10510	WESTCHESTE	R COUNTY
165	FURNACE WOODS RD	PICCIANO ENTERPRISES LLC		216 8TH ST	VERPLANCK, NY	10596	BLOCK: 1	LOT: 4
34	MONTROSE STATION RD	GARCIA CRISTIAN O	SALCE-GARCIA BRENDA	34 MONTROSE STATION RD	CORTLANDT MANOR, NY	-	ZONE: F	<-4U
2154	MAPLEAVE	MILLER PATRICIA	KOZIOL BRIAN	2154 MAPLE AVE	CORTLANDT MANOR, NY	-	SDG PROJECT	#: 16VZN071
35		PICCIANO PAZ LIVING TRUST		216 8TH ST	VERPLANCK, NY	10596	SCALE: AS NOTED	DATE: 08/31/20
1	MONTROSE STATION RD			1 MONTROSE STATION RD	CORTLANDT MANOR, NY	10567		CHECKED BY: SK
2169	MAPLEAVE	GHIGLIAZZA PAULA		2169 MAPLE AVE	CORTLANDT MANOR, NY	10567		
7		FUERST ROBERT & LINDA		7 MONTROSE STATION RD	CORTLANDT MANOR, NY		DRAWING	TITLE:
2123		PERRY CHARLES W & MARION L L/E	PERRYALAN	2123 MAPLE AVE	CORTLANDT MANOR, NY			
0		COUNTY OF WESTCHESTER		148 MARTINE AVE RM 720	WHITE PLAINS, NY	10607	PROPERTY OW	NERS LIST
0 49		BOYLE FAMILY IRREV TRUST	DUBRISINGH M /BOYLE D TRUSTEE		CORTLANDT MANOR, NY	10567		
PROPERTY OV							DRAWING NO.:	PAGE NO.:
							Z10	10 of 13

1 11x17 SCALE:

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		APPLICANT HOMELAND TOWERS 9 HARMONY ST, 2ND FLOOR DABBURY CT, 06810					
	6	CLIENT COMME	NTS	08/10/22	RR		
	5	CLIENT COMME	NTS	07/08/22	RR		
	4	CLIENT COMME	NTS	03/08/22	RR		
	3	RF UPDATE		08/05/21	YM		
: Solid Light Lines Represent Existing Trees To Remain	2	ATTORNEY		12/17/20	AL		
DASHED DARK LINES REPRESENT EXISTING TREES TO BE REMOVED				DATE	BY		
REPRESENTS SUGAR MAPLE	NO.				01		
REPRESENTS NORTHERN RED. OAK	PROJECT TITLE: PRELIMINARY SITE PLAN						
REPRESENTS RED MAPLE							
REPRESENTS CHESTNUT OAK	CORTLANDT						
REPRESENTS PIGNUT HICKORY	52 MONTROSE STATION RD CORTLANDT, NY 10567						
REPRESENTS SHAGBARK HICKORY REPRESENTS AMERICAN ELM		WESTCHESTER COUNTY					
REPRESENTS AMERICAN ELM REPRESENTS WHITE ASH		BLOCK: 1 LOT: 4 ZONE: R-40					
REPRESENTS WHITE OAK		SDG PROJEC	T #: 16	VZN071			
REPRESENTS EASTERN RED CEDAR	SCALE: AS NOTED DATE: 08/31/20			20			
REPRESENTS EASTERN POPLAR	DRAWN BY: JM CHECKED BY: SK				SK		
REPRESENTS COMMON SASSAFRAS REPRESENTS SWEET BIRCH	DRAWING TITLE:						
REPRESENTS CANADIAN HEMLOCK		PRELIMINARY TREE					
REPRESENTS PIN OAK	REMOVAL PLAN						
		DRAWING NO.:		PAGE NO.:			
		Z12		12 of 13			



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			50		F)			
(OLD)	PROPOSED (NEW)	l so	HERER DESIGN	V GR	OUP	/		
ange	No Change	11						
nge	No Change							
pment y)	±9' (Equipment Conopy)	100,000 Fate Stree Suite 202						
1'	±189'-7"		CLEDAROT D	Ogran	and the second			
**	±62'-3"	PH 908 222013 Pax 908/9232525						
	±181'		10/2000	8 B	1/2/*			
7%	±3.35%							
x	103%		follo		Malt	X		
(OLD)	PROPOSED		IT I S MEN AUON OF THE	LAWFO	R ANY PERSON			
1	±345'	ι	IT I CONTRESS	DIRECT	LICENS			
	±196'		SIGNATURE AND SER OOF	ENGEN	ESS ORIGINAL	-		
d	Instolled		APPLIC					
und •	Underground ±140'							
• ••	±84'-3"							
			100	E81				
			HOMELAND TOWERS					
			9 HARMONY ST, 2ND FLOOR					
		-	DANBURY	СТ, 0	6810			
	PROPOSED 56'	6	CLIENT COMME	NTS	08/10/22	RR		
$\langle $	COLLAPSE ZONE	5	CLIENT COMME	NTS	07/08/22	RR		
			CLIENT COMME		03/08/22	RR		
```	N. Andrewski († 1997) Nederlânski († 1997)	3	RF UPDATE ATTORNEY		08/05/21	YM AL		
0	-li	2			DATE	BY		
1220		NO ISSUE OR REVISION DATE BY PROJECT TITLE:						
			PRELIMINARY					
			CORTLANDT					
			52 MONTROSE STATION RD CORTLANDT, NY 10567 WESTCHESTER COUNTY					
			BLOCK: 1 LOT: 4 ZONE: R-40					
A A A A A A A A A A A A A A A A A A A			SDG PROJECT #: 16VZN071					
P.C.			SCALE: AS NOTED DATE: 08/31/20					
LISI COMPONING TOHER			DRAWN BY: JM CHECKED BY: SK					
			OLD AND NEW SITE					
	X	PLAN ZONING COMPARISON						
16'	32'	DRAWING NO.: PAGE NO.:   Z13 13 of 13						