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May 30, 2024

Via Electronic Mail and Hand Delivery

Melanie A. Bachman, Esq.
Executive Director/Staff Attorney
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: **Docket No. 521 – Application of Tarpon Towers III, LLC and Cellco Partnership d/b/a Verizon Wireless for a Certificate of Environmental Compatibility and Public Need for the Construction, Maintenance and Operation of a Wireless Telecommunications Facility at 1021-1041 South Main Street in Cheshire, Connecticut**

Dear Attorney Bachman:

On behalf of Tarpon Towers III, LLC and Cellco Partnership d/b/a Verizon Wireless ("Cellco"), enclosed please find the original and fifteen (15) copies of the Applicant's Responses to Council Interrogatories (Set One) related to Docket No. 521. Electronic copies of these responses have also been sent to the Council today.

If you have any questions or need any additional information, please do not hesitate to contact me.

Sincerely,

Kenneth C. Baldwin

KCB/kia
Enclosure

29728286-v1

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE:	:	
	:	
APPLICATION OF TARPON TOWERS III, LLC AND	:	DOCKET NO. 521
CELLCO PARTNERSHIP D/B/A VERIZON	:	
WIRELESS FOR A CERTIFICATE OF	:	
ENVIRONMENTAL COMPATIBILITY AND PUBLIC	:	
NEED FOR THE CONSTRUCTION, MAINTENANCE	:	
AND OPERATION OF A WIRELESS	:	
TELECOMMUNICATIONS FACILITY AT 1021-1041	:	
SOUTH MAIN STREET, CHESHIRE, CONNECTICUT	:	MAY 30, 2024

RESPONSES OF CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS TO
CONNECTICUT SITING COUNCIL INTERROGATORIES (SET ONE)

On May 14, 2024, the Connecticut Siting Council ("Council") issued Interrogatories to Tarpon Towers III, LLC and Cellco Partnership d/b/a Verizon Wireless ("Cellco"), relating to Docket No. 521. Below are Cellco's responses.

Notice

Question No. 1

Referencing Application Attachment 4, of the letters sent to abutting property owners, how many certified mail receipts were received? If any receipts were not returned, which owners did not receive their notice? Were any additional attempts made to contact those property owners?

Response

Cellco received certified mail receipts from 11 of the 14 abutters listed in Attachment 4 of the Application. Two notice letters (Countryside Shoppes LLC and Town and Country Building LLC) were returned "unclaimed". One notice letter (1008 South Main Street LLC) remains outstanding. On April 10, 2024, additional notice letters were sent, by regular mail, to the three abutting owners identified above.

Question No. 2

Referencing Application p. 17, have the Applicants received any comments since the Application was submitted to the Council? If yes, summarize the comments and how these comments were addressed.

Response

The Applicant has not received any comments on the tower proposal from local officials. One abutting landowners, Enrico Pezzella at 1062 King Road did contact the Applicant's Counsel. Mr. Pezzella asked several questions about the proposed application process and the distance from the tower site to his parcel.

Site Search

Question No. 3

Referencing Application pp. 9, 10 and Attachment 8, identify the approximate center and radius of the site search area.

Response

The center of the Cheshire DT Search Ring is located at 41.476157 -72.905219 with an approximate search area radius of 0.75 miles. The search ring in this instance is more of oval in shape extending north/south with a principle focus along South Main Street (Route 10).

Question No. 4

What are the heights of the existing buildings on the host parcel (supermarket and drive-thru restaurant)? Did Cellco consider a roof top facility?

Response

Both buildings on the subject parcel are single-story structures, between twenty (20) feet and twenty-five (25) feet in height. Cellco has determined that the ninety-foot antenna centerline height is needed to allow it to satisfy its wireless service objectives so a rooftop installation

would not work in this instance.

Question No. 5

Are small cells a feasible alternative to a new tower? Estimate the number of pole-mounted small cells that would be required for reliable service within the proposed service area. Would certain frequencies be limited through the use of small cells? What would be the cost of each small cell for both the use of existing utility poles and new poles specific for small cells. What type of equipment would be attached to each pole?

Response

It may be theoretically and technically possible to install a large number of small cells or Distributed Antenna System nodes in the area that could closely match the coverage footprint of the proposed Cheshire DT Facility (macro cell). Such an approach, however, is not practically nor economically feasible and is not consistent with good RF Engineering practice.

Typically, small cell facilities or DAS nodes involve the installation of a single cannister antenna, an individual radio head and related electrical and fiber optic connections. Small cells would utilize existing infrastructure (i.e., electric distribution poles) along public rights of way in areas where coverage and/or capacity problems exist. These existing utility poles are often encumbered by other equipment (i.e., transformers, street lights and risers) that will limit Cellco's ability to use the pole. Structural limitations of the existing poles could also limit Cellco's ability to deploy all the equipment needed to provide service in all of its operating frequencies. Providing some form of back-up power to small cells or DAS nodes is very difficult and, in many cases, impossible, making the service even more vulnerable to storms. In areas where this existing infrastructure is not available, for example, along private roads or on private and municipal properties, property rights would need to be acquired and new poles would need to be installed. The actual number of small cell facilities that would be needed to provide a

service comparable to that from the proposed Facility is not known but would be significant given the overall size of the area that Cellco is attempting to serve with the proposed facility. Individual small cell would be capable of providing service in some but not all of Cellco's operating frequencies further limiting network capacity in the area around the Cheshire DT Facility. Cellco estimates the cost for each small cell installation to be approximately $70,000 to $75,000.

Question No. 6

Referencing Application Attachment 8 – Site Search Summary, please provide the distance to the sites investigated from the proposed site.

Response

The distances to the sites investigated as referenced in Attachment 8 are as follows:

1. 1021-1041 South Main Street, Cheshire, CT: Subject Property
2. 1263 South Main Street, Cheshire, CT: approximately 0.37-miless
3. 1125 South Main Street, Cheshire, CT: approximately 0.14-miles
4. 1250 and 1216 South Main Street, Cheshire, CT: approximately 0.29-miles
5. 140 Cooke Hill Road, Cheshire, CT: approximately 0.51-miles
6. 525 South Main Street, Cheshire, CT: approximately 0.78-miles
7. 945 South Main Street, Cheshire, CT: approximately 0.13-miles
8. 1011 South Main Street, Cheshire, CT: approximately 0.06-miles

Proposed Site

Question No. 7

Is the project, or any portion of the project, proposed to be undertaken by state departments, institutions or agencies, or to be funded in whole or in part by the state through any contract or grant?

Response

No.

Question No. 8

Pursuant to CGS § 16-50o, submit a copy of the unredacted lease for the proposed site. A Motion for Protective Order may be submitted for any confidential/proprietary information.

Response

Cellco's Motion for Protective Order was filed with the Council on May 29, 2024.

Question No. 9

Referencing Application p. 2 and Attachment 1, what is the distance of the existing utility pole (#3567) located on King Road to the existing utility pole # 5748 located within the host parcel?

Response

The distance from existing utility pole #3567 to existing utility pole #5748 is approximately 170 feet.

Question No. 10

Provide the distance of the proposed tower from the nearest parking space that would remain in use.

Response

The nearest parking space that would remain in use is approximately 34 feet to the east of the proposed tower site.

Question No. 11

Would the parking areas adjacent to the proposed facility still be used for parking during construction? Identify which parking areas would remain in use and which parking areas would be inaccessible.

Response

Approximately 17 existing parking spaces (three (3) existing spaces on either side of the proposed facility to the north and south, and 11 spaces to the east) will be temporarily inaccessible during construction of the facility. The Applicant will work with the property owner prior to construction to determine which parking areas will be required for construction access.

Question No. 12

Referencing Application Attachment 1, Sheet SP-1, what is the distance of the proposed tower from each of the buildings (supermarket and drive-thru restaurant) on the host parcel?

Response

The distances from the proposed tower to the existing supermarket building to the east and drive-thru restaurant in the southeast portion of the Property are approximately 101 feet and approximately 405 feet, respectively.

Question No. 13

Where is the supermarket loading dock located? How would Applicants ensure there would be no interruptions to supermarket operations and accessibility to the supermarket during construction?

Response

The existing supermarket loading docks are located to the northeast of the proposed facility along the west face of the existing supermarket building. The contractor will work with the grocery store operator to ensure that business operations are not interrupted during construction of the facility if the facility is approved by the Council.

Question No. 14

Would the Applicants be required to install additional parking spaces elsewhere on the parcel to mitigate for removing 10 parking spaces? If so, where would they be located?

Response

No, the property owner has not asked the Applicants to replace the parking spacing eliminated by the proposed tower site.

Question No. 15

How would construction impact traffic on the host parcel and the intersection on South Main Street?

Response

The impact of construction traffic on the host parcel is expected to be minimal, as the wireless facility is located to the rear of the businesses in an area not typically accessed by customers in the normal course of business. Construction vehicles will enter the site from South Main Street through the existing site entrance located in the northeast corner of the Property and will exit from the main entrance at the signalized intersection. The contractor will work with the property owner and business tenants to ensure construction traffic does not interfere with normal business operations.

Question No. 16

Referencing Application p. 19, how is the construction cost of the facility recovered for both Tarpon Towers III, LLC (Tarpon) and Cellco Partnership d/b/a Verizon Wireless (Cellco)?

Response

The capital costs for the construction of this facility is recovered by Tarpon through portions of the rent paid by Cellco for the shared use of the site. Tarpon will also seek the collocation of other commercial wireless carriers on the facility to accelerate its recovery of such

capital costs which leads naturally to the aggregation of such carriers at the facility to reduce the proliferation of towers serving the area.

The costs associated with providing Cellco customers with the nation's most reliable wireless service network, including the cost for development of network infrastructure (small cells and macro-cells), are paid for by the individuals, corporations and government entities that purchase Cellco' s wireless service.

Question No. 17

Has the host municipality or any other entity expressed an interest in co-locating emergency services antennas?

Response

No.

Proposed Facility and Associated Equipment

Question No. 18

Would the tower be designed for EIA/TIA-222 structural standards version G, H, or both?

Response

The tower will be designed to the EAI/TIA-222-H structural standards as dictated in the current Connecticut State Building Code.

Question No. 19

What is the maximum wind speed tolerance for the antennas/antenna mounts on the proposed tower?

Response

Based on our review of antenna specifications, the wind speed tolerance for antennas/antenna mounts on the proposed tower is generally listed as 150 miles per hour which

exceeds the ANSI/TIA-222-H design wind speed of 125 miles per hour, specified for the proposed tower.

Question No. 20

Would the tower and foundation be designed to accommodate an increase in tower height?

Response

Tarpon would design the tower to accommodate the installation of an extension to the tower by accounting for such future possibility in the initial design of the tower and the foundation. A bolt circle would be included at the top of the tower to facilitate the ease of attachment of such an extension.

Question No. 21

Referring to Application p. 9 and Attachment 1, what type of antenna mount is being proposed? How many equipment cabinets would Cellco install?

Response

Cellco will mount its antennas on a triangular low-profile antenna platform with handrails at the top of the tower. Cellco will also install one radio equipment cabinet and one battery cabinet on the ground near the base of the tower.

Question No. 22

What is the structural design standard applicable to the proposed platform antenna mounts?

Response

The structural design standards applicable to the proposed antenna mount is ANSI/TIA-222-H "Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures" and TIA-5053 "Mounting System Classification".

Question No. 23

Would any blasting be required to develop the site?

Response

It is not anticipated that blasting will be required. A geotechnical investigation will be performed to evaluate subsurface conditions. If ledge is encountered, chipping is preferred to blasting. In the unlikely event that blasting is required, an appropriate protocol would be followed in accordance with state and municipal regulations.

Question No. 24

Pursuant to CGS §16-50p(a)(3)(G), identify the safety standards and/or codes by which equipment, machinery or technology that would be used or operated at the proposed facility. What structural design codes apply to the tower and antenna mounts?

Response

- 2021 International Building Code (IBC), with the 2022 Connecticut State Building Code amendments.
- 2020 National Electric Code (NFPA 70).
- 2021 International Mechanical Code, with the 2022 Connecticut State Building Code amendments.
- 2022 Connecticut State Fire Safety Code.
- ANSI/TIA-222-H "Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures".
- Occupational Safety and Health Administration (OSHA).

The structural design standards applicable to the proposed antenna mount is ANSI/TIA-222-H "Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures" and TIA-5053 "Mounting System Classification".

Question No. 25

Referring to Application Attachment 1, Sheet 1 of 1, there is a dashed red line and associated note, "18" WEST?," in the northeast corner of the host parcel at the intersection with South Main Street. What is this intended to depict and/or correct?

Response

The callout on the existing survey drawing was a field notation left on the submission by mistake. It was in reference to the survey crew being unable to locate an existing 18" invert on the west side of the existing structure. This has no bearing on the design of the proposed telecommunications facility. Should the Application be approved, that callout will be removed for the D&M submission.

Proposed Wireless Services

Question No. 26

Are all frequencies used to transmit voice and data?

Response

All of Cellco's licensed frequencies (700 MHz, 850 MHz, 1900 MHz, 2100 MHz, 3550 MHz, 5G) are used, however, to transmit both voice and data services. Included in Attachment 1 are "Existing" and "Existing and Proposed" coverage plots for Cellco's 3500 MHz and 5G frequencies, which were not included in the Application.

Question No. 27

Can Cellco's capacity/coverage objectives be met by installing antennas at a lower tower height? Identify the lowest possible antenna height and describe how this height would affect capacity relief within the service area.

Response

Cellco's RF Engineers have determined that the 90-foot level is the lowest antenna height needed to improve wireless service in the area and off-load capacity on the CHESHIRE CT Beta sector antennas.

Question No. 28

Does Cellco have any statistics on dropped calls and/or ineffective attempts in the vicinity of the proposed facility? If so, what do they indicate? Does Cellco have any other indicators of substandard service in this area?

Response

Given the growth and expansion of wireless technology and the increase in the number of "smart" devices used by customers, Cellco's wireless network is more data driven today than ever before. Cellco's reliance on dropped call and/or ineffective attempt data as indicators of system performance is now a thing of the past.

Today, Cellco measures the user experience based on the data speeds (Downlink User Perceived Throughput) delivered to its users and has established a minimum of 5Mbps (Megabits/second) standard for its service to be considered "reliable". To illustrate, Attachment 2 to these responses includes "XLPT graph_700 MHz" and "XLPT graph_850 MHz" which show the data speeds delivered to Cellco's customers for the days (all day) of May 15 through May 18, 2024 for the congested CHESHIRE CT Beta sector 700MHz and 850MHz frequencies. These graphs show that there are a high number of customer connections (red lines) during peak

daytime hours (6AM to 6PM); and the data speeds delivered to the users during that time is under the 5Mbps standard (as low as 0.9Mbps for 700MHz and 3.22Mbps for 850MHz) resulting in the provision of unreliable service. Included in Attachment 3 is a "Distance Histogram" which shows the amount of traffic/customer connections handled by the CHESHIRE CT Beta sector on May 17, 2024 (24hrs) at its 700MHz and 850MHz frequencies. This histogram indicates that more than 50% of the traffic currently on the CHESHIRE CT Beta sector is within two miles of that site, indicating that the proposed Cheshire DT facility is appropriately located (within approximately 1.5 miles east of the CHESHIRE CT facility) to offload the congested CHESHIRE CT Beta sector on its 700MHz and 850MHz frequencies.

Question No. 29

Referring to Application p. 10 and Attachment 6, would the proposed facility interact with all 7 of the existing sites depicted? Explain.

Response

Yes, and as a user moves away from the proposed Cheshire DT facility, the service being provided would be handed over to one of these neighboring sites, providing the more dominant service in those areas.

Question No. 30

Provide the distance of the seven existing sites from the proposed facility.

Response

Site Name	Distance in Miles	Direction
CHESHIRE NE CT	2.47	N
CHESHIRE CT SC1	1.97	N
CHESHIRE EAST CT	1.69	NE
OAKDALE CT	2.53	E
HAMDEN NORTH 2 CT	1.87	S
CHESHIRE CT	1.39	W
CHESHIRE SC02 CT	0.97	N

Question No. 31

Would the proposed site provide adequate service to the coverage area for all frequencies that Cellco would deploy?

Response

Yes, the proposed facility will provide reliable service to the coverage area for the site and the capacity relief needed for the CHESHIRE CT Beta sector antennas.

Question No. 32

Referencing Application p. 7, provide the resultant coverage gaps from the beta sector down-tilt in miles for the proposed frequencies for the nearby portions of Route 10, Route 42, King Road, Sperry Road, and the surrounding local roads, the overall existing coverage footprints in square miles and the proposed coverage mileage and square miles as represented in the example below:

Street Name	700 MHz Coverage Gap	1900 MHz Coverage Gap	2100 MHz Coverage Gap
Route 2	2.5 miles	5 miles	4.5 miles
Route 32	1.0 mile	3 miles	2 miles
Route 87	0.5 mile	2.5 miles	1 mile
Interstate 395	2.5 miles	2.5 miles	2.5 miles
State Road Total	6.5 miles	13 miles	10 miles
Overall Coverage Footprint	49 square miles	6 square miles	7.5 square miles

Response

Due to the higher ground elevation and the height of the antennas on the existing CHESHIRE CT tower, there will not be significant gaps in the network service along Route 10 and its surroundings. Cellco anticipates that even with the anticipated down-tilt (the maximum capable for the existing antennas) a signal strength of -95dBm RSRP would still be available in the area around the proposed Cheshire DT facility, providing reliable "in-vehicle" service. When the proposed Cheshire DT CT facility is put into service, the signal strength in the area would

improve significantly to -85dBm RSRP or better which will drive the User's Equipment to connect to CHESHIRE DT CT instead of CHESHIRE CT due to the stronger signal level in the area and provide the much needed capacity relief Cellco needs.

Emergency Backup Power

Question No. 33

What would be the runtime for Cellco's proposed diesel generator before it would need to be refueled assuming it is running at full load under normal conditions? What is the fuel storage capacity?

Response

Under full load (100% generator capacity), the generator would consume 4.3 gallons of fuel per hour which equates to 53.26 hours of operation (2.25 days) before refueling would be necessary. The 50kW generator's fuel storage capacity is 229 gallons.

Question No. 34

Would the backup generator have containment measures to protect against fluid leakage?

Response

Yes. The 229-gallon belly tank is double-walled and contains leak detection alarms which are monitored remotely 24/7 by Cellco technicians.

Question No. 35

Is natural gas available in the site vicinity? Have the Applicants considered the use of a natural gas-powered backup generator? Please identify the nearest natural gas connection point.

Response

Based on 2015 survey data, natural gas is available in the South Main Street right of way. A natural gas generator has not been considered. Gas line installation from South Main Street

would have a more significant impact on the active customer parking and pedestrian areas on the subject parcel, would need to interact with existing underground utilities on site and would add to the costs incurred to build the Cheshire DT facility.

Question No. 36

Referring to Application p. 9, for how long would the proposed back up battery system provide power to Cellco's equipment if the backup generator failed to start?

Response

The backup battery system is designed to keep the Cellco facility operating for up to eight (8) hours if the generator fails to start.

Question No. 37

Would the proposed backup generator run periodically (exercised) for maintenance purposes? If so, at what frequency and duration? Would this be scheduled for daytime hours?

Response

Yes. Standard operating procedures requires the generator to be exercised once every two weeks, for approximately 20 minutes, during daytime hours. Specific times to exercise the generator could be arranged if the tower site is approved.

Question No. 38

Could the proposed generator be shared by other carriers that may locate at the proposed facility? What effect would a shared generator have on the run time of the generator if at full load?

Response

No, the 50-kW diesel generator would not be large enough to be shared by one or more carriers in addition to Cellco. The 50-kW generator is designed to accommodate Cellco's

backup power needs only. Although difficult without knowing precisely what an additional carrier or carriers might need for backup power, it is certainly conceivable that an appropriately sized generator could be shared by multiple carriers at this site. A larger generator (100-kW or larger) would, very likely, require the installation of a larger, perhaps diesel external, fuel tank, which would impact run times and refueling requirements. Without those details it is difficult to answer this question with any specificity.

Question No. 39

Would the proposed backup generator be managed to comply with Regulations of Connecticut State Agencies Section 22a-174-3b?

Response

Yes.

Public Health and Safety

Question No. 40

Referencing Application Attachment 14, provide the percentage Federal Communications Commission Maximum Permissible Radiofrequency Exposure from the antennas at the following points:

a. The nearest parking area on the host parcel; and
b. The nearest point at each of the buildings on the host parcel.

Response

The nearest parking area on the host parcel is located approximately 34 feet from the base of the tower (5.3% of the FCC Standard). The nearest point of the existing commercial shopping center building on the Property is located approximately 101 feet east of the tower (4.1% of the FCC Standard). The stand alone "Dunkin" building is approximately 405 feet from the tower site (1.6% of the FCC Standard).

Question No. 41

How would the site be secured during construction to ensure public safety?

Response

Cellco and Tarpon would work with its project contractor to secure the premises during construction. Security and safety measures including construction fencing and other barricades would be included to limit and restrict access to all active construction areas. Active construction areas would be secured each night when construction activity is completed for the day. The goal would be to complete all tower and equipment foundation work as quickly as possible to allow for the installation of permanent site security measures referenced below in response no. 42, as soon as possible.

Question No. 42

What measures are proposed for the site to ensure security and deter vandalism? (Including alarms, gates, locks, anti-climb fence design, etc.)

Response

The proposed wireless facility compound will be surrounded by an eight (8) foot tall chain link security fence and gate. The gate will be locked with access limited to the wireless carriers sharing the facility. Cellco's wireless equipment will maintain separate silent intrusion alarms which are monitored remotely. Climbing pegs on the lower portion of the tower will also be removed to deter climbing of the tower.

Question No. 43

Referencing Application p. 5, would the proposed facility support text-to-911 service? Is additional equipment required for this purpose?

Response

Yes.

Question No. 44

Would Cellco's installation comply with the intent of the Warning, Alert and Response Network Act of 2006?

Response

Yes.

Question No. 45

Is the proposed facility located within a Department of Energy and Environmental Protection designated Aquifer Protection Area or within a public water supply watershed area?

Response

The proposed facility is located within the South-Central Connecticut Regional Water Authority's South Cheshire Aquifer Protection Area and Public Water Supply Watershed (PWS ID: CT0930011). An Aquifer Protection Area and Public Water Supply Watershed Protection Program will be implemented to avoid unintentional impacts to public drinking water resources during construction activities. *See* Attachment 4 for additional details.

Question No. 46

Besides the backup power source, what other facility equipment generates noise? Would the noise from this equipment (non-backup power sources) comply with state noise control standards at the property boundaries?

Response

Other than the backup generator, noise from the equipment cabinets will be produced by the equipment cooling fans. The noise from these small cooling fans would comply with state noise control standards at the property boundaries.

Noise from both the battery and equipment cabinets is estimated to be 50 dBA at a distance of three (3) feet from the equipment. The nearest property line to the equipment is

approximately 80 feet to the west. The maximum allowable noise emitted for developed residential districts per the DEEP noise standards is 61dBA during the day and 51 dBA during the night.

Question No. 47

Is lighting required at the facility? If so, for what purpose and what type would be installed?

Response

Timer controlled lighting will be installed near Cellco's equipment to assist technicians if nighttime maintenance visits are necessary. No FAA marking to lighting of the tower is required.

Question No. 48

Referring to Application Attachment 1, could the tower be designed with a yield point to ensure that the tower setback radius remains within the boundaries of the subject property? What would be the cost of installing the yield point?

Response

This tower structure could be designed with a yield point to ensure the tower setback radius remains inside the property line. The added cost of such feature is not specifically identified in the cost of such tower structure.

Environmental Effects and Mitigation Measures

Question No. 49

Would any trees be removed for the utility interconnection? If so, how many?

Response

As shown on drawing SP-1 no trees will need to be removed as part of the proposed facility installation.

Question No. 50

Referencing Application Attachment 12, when would Cellco submit the cultural resource study to the State Historic Preservation Office?

Response

Typically, Cellco makes its submission to the State Historic Preservation Office after the facility is approved by the Council. An earlier submission to the SHPO may be warranted if the preliminary screen uncovers a potential for the proposed facility to impact an historic or cultural resources in the area. In this case, the Preliminary Screen, provided in Attachment 12 of the Application, determined that no historic or cultural resources were identified within 0.5 miles of the Cheshire DT Facility.

Question No. 51

Describe the visibility of the tower from the residences located across King Road to the west and southwest of the facility site.

Response

The visibility of the proposed tower from the residences located along King Road to the west and southwest will be a combination of year-round and seasonal visibility. The stand of trees along the western border of the Property, in conjunction with the relatively low height of the proposed tower (94' AGL) serve to limit visibility, particularly when leaves are on the deciduous trees.

Question No. 52

What, if any, stealth tower design options would be feasible to employ at this site? Please provide costs related to each stealth tower design.

Response

The two (2) main tower design options that could be feasible to mitigate the visibility at this site would be a unipole or a monopine. A unipole design would require a significant increase of the structure height to accommodate multiple antenna locations and antenna centerlines to accommodate all of the antennas needed to allow Cellco to meet its wireless service objectives in the area. Future collocations of other wireless providers would also be limited and the use of the tower by municipal entities might be impossible. This option would increase the visibility of the facility beyond that depicted in Attachment 9 of the Application. A monopine design for the proposed Facility could soften views, particularly from the residential areas generally to the north/south/west, as there are some coniferous trees in the immediate vicinity of the proposed facility. However, the monopine would likely be more conspicuous to areas where the tower would be visible above the tree line. Monopine towers are typically three-times the cost of a traditional monopole tower and would add to the overall project costs accordingly.

Question No. 53

Could the proposed facility be moved to the front of the building to increase the distance to the residences to the west?

Response

Relocating the proposed facility to the front of the commercial building on the Property would be far more disruptive to existing uses on the parcel, impacting active parking areas and traffic flow through the shopping center parking lot. Although closer to residences to the west, the proposed tower location in the rear of the parcel, minimizes disruption to existing uses and operations on the Property. Also, the existing vegetated buffer and stockade fence along the western boundary of the parcel acts as an effective visual screen for the residences along King

Road. *See* Application, Attachment 9, Photo locations 12-15.

Question No. 54

What is the height range of the surrounding tree canopy?

Response

The height of the surrounding tree canopy ranges from approximately 42 feet AGL to 108 feet AGL, with an average height of approximately 70 feet AGL.

Question No. 55

Is the preliminary design of the project at least 50 percent complete? If not, would construction comply with the Connecticut Guidelines for erosion and sedimentation control and Connecticut Stormwater Quality Manual, effective March 30, 2024?

Response

The preliminary design of the project, as provided, is approximately 50% complete. The design will comply with the referenced Connecticut Guidelines for Erosion and Sedimentation Control and the Connecticut Stormwater Quality Manual.

Question No. 56

Submit photographic site documentation with notations linked to the site plans or a detailed aerial image that identifies locations of site-specific and representative site features. The submission should include photographs of the site from public road(s) or publicly accessible area(s) as well as Site-specific locations depicting site features including, but not necessarily limited to, the following locations as applicable:

For each photo, please indicate the photo viewpoint direction and stake or flag the locations of site-specific and representative site features. Site-specific and representative site features include, but are not limited to, as applicable:

a. wetlands, watercourses and vernal pools;
b. forest/forest edge areas;
c. agricultural soil areas;
d. sloping terrain;
e. proposed stormwater control features;
f. nearest residences;
g. Site access and interior access road(s);
h. tower location/compound;
i. clearing limits/property lines;
j. mitigation areas; and
k. any other noteworthy features relative to the Project.

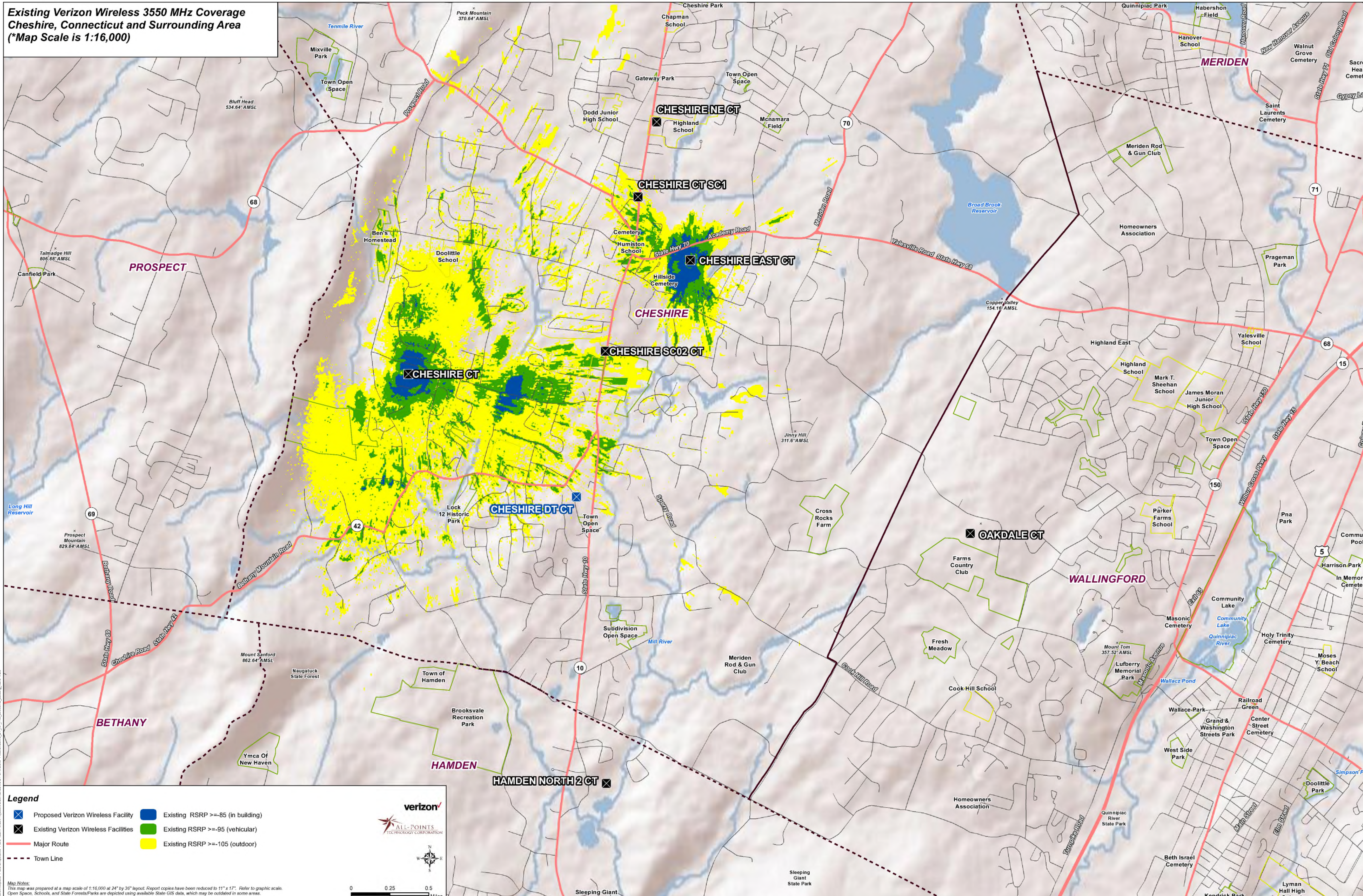
A photolog graphic must accompany the submission, using a site plan or a detailed aerial image, depicting each numbered photograph for reference. For each photo, indicate the photo location number and viewpoint direction, and clearly identify the locations of site specific and representative site features shown (e.g., physical staking/flagging or other means of marking the subject area).

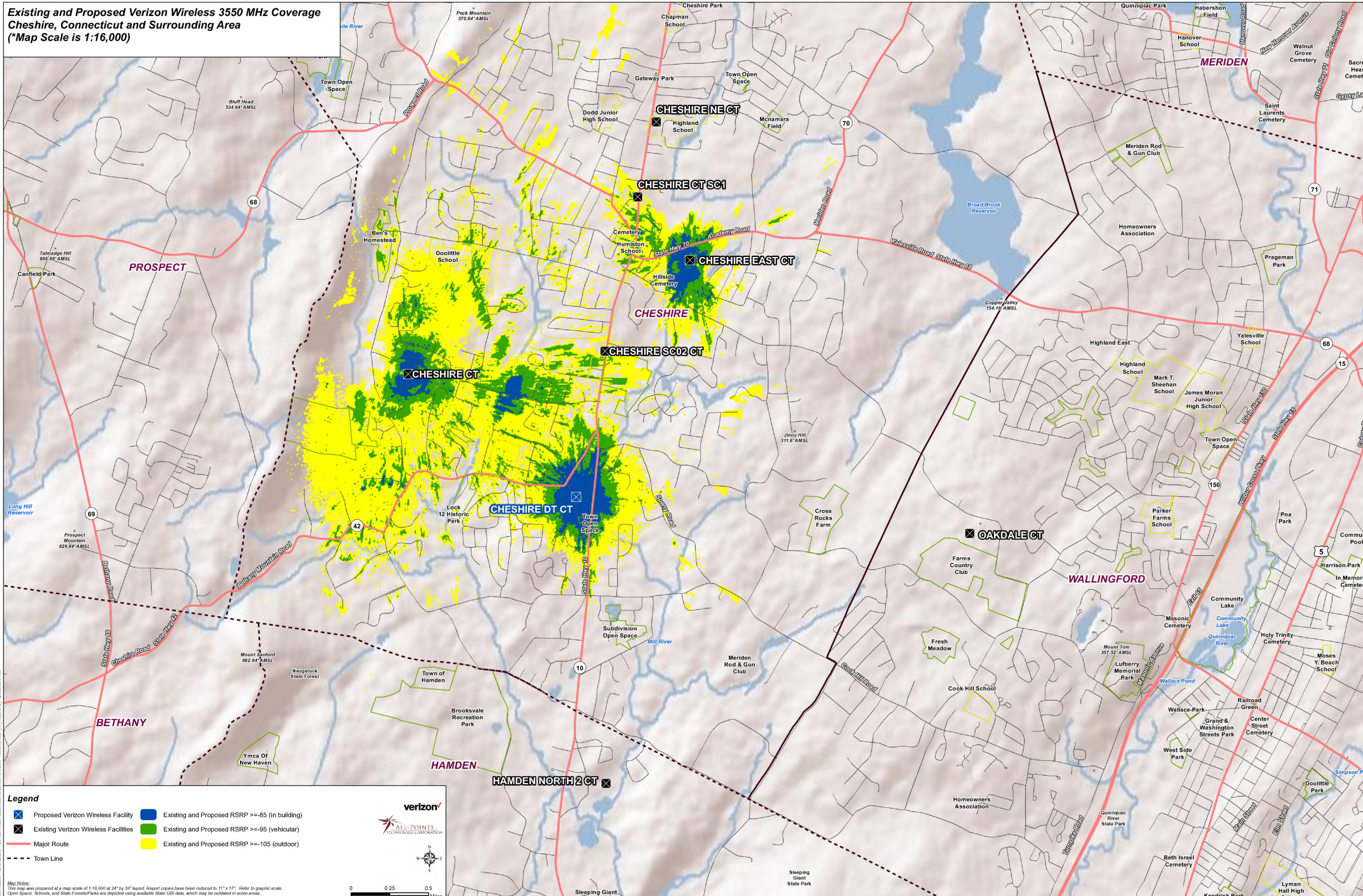
The submission shall be delivered electronically in a legible portable document format (PDF) with a maximum file size of <20MB. If necessary, multiple files may be submitted and clearly marked in terms of sequence.

Response

See Attachment 5 for the Remote Field Review.

ATTACHMENT 1


Existing Verizon Wireless 3550 MHz Coverage
Cheshire, Connecticut and Surrounding Area
(*Map Scale is 1:16,000)
CHESHIRE NE CT
CHESHIRE CT SC1
CHESHIRE EAST CT
CHESHIRE SC02 CT
CHESHIRE CT
CHESHIRE DT CT
OAKDALE CT
HAMDEN NORTH 2 CT
PROSPECT
CHESHIRE
MERIDEN
WALLINGFORD
BETHANY
HAMDEN
Broad Brook Reservoir
Peck Mountain 370.64' AMSL
Bluff Head 534.64' AMSL
Talmadge Hill 806.88' AMSL
Prospect Mountain 829.84' AMSL
Mount Sanford 862.64' AMSL
Jinny Hill 311.6' AMSL
Copper Valley 154.16' AMSL
Mount Tom 357.52' AMSL
Legend
Proposed Verizon Wireless Facility
Existing Verizon Wireless Facilities
Major Route
Town Line
Existing RSRP >=-85 (in building)
Existing RSRP >=-95 (vehicular)
Existing RSRP >=-105 (outdoor)
verizon
ALL-POINTS TECHNOLOGY CORPORATION
Map Notes:
This map was prepared at a map scale of 1:16,000 at 24" by 36" layout. Report copies have been reduced to 11" x 17". Refer to graphic scale.
Open Space, Schools, and State Forests/Parks are depicted using available State GIS data, which may be outdated in some areas.
Base map: ESRI Shaded Relief
0 0.25 0.5 Miles



Existing and Proposed Verizon Wireless 3550 MHz Coverage
Cheshire, Connecticut and Surrounding Area
(*Map Scale is 1:16,000)
CHESHIRE NE CT
CHESHIRE CT SC1
CHESHIRE EAST CT
CHESHIRE SC02 CT
CHESHIRE CT
CHESHIRE DT CT
OAKDALE CT
HAMDEN NORTH 2 CT
PROSPECT
CHESHIRE
MERIDEN
WALLINGFORD
BETHANY
HAMDEN
Peck Mountain
370.64' AMSL
Bluff Head
534.64' AMSL
Talmadge Hill
806.88' AMSL
Prospect
Mountain
829.84' AMSL
Mount Sanford
862.64' AMSL
Jinny Hill
311.6' AMSL
Copper Valley
154.16' AMSL
Mount Tom
357.52' AMSL
Broad Brook
Reservoir
Long Hill
Reservoir
Cheshire Park
Chapman
School
Gateway Park
Town Open
Space
Dodd Junior
High School
Highland
School
Mcnamara
Field
Ben's
Homestead
Doolittle
School
Cemetery
Humiston
School
Hillside
Cemetery
Canfield Park
Lock
12 Historic
Park
Cross
Rocks
Farm
Farms
Country
Club
Fresh
Meadow
Subdivision
Open Space
Mill River
Meriden
Rod & Gun
Club
Town of
Hamden
Brooksvale
Recreation
Park
Naugatuck
State Forest
Ymca Of
New Haven
Cook Hill School
Homeowners
Association
Sleeping
Giant
State Park
Sleeping Giant
Country Club
Quinnipiac Park
Habershon
Field
Hanover
School
Walnut
Grove
Cemetery
Sacred
Heart
Cemetery
Saint
Laurents
Cemetery
Meriden Rod
& Gun Club
Prageman
Park
Yalesville
School
Highland East
Highland
School
Mark T.
Sheehan
School
James Moran
Junior
High School
Parker
Farms
School
Pna
Park
Community
Pool
Harrison Park
In Memoriam
Cemetery
Community
Lake
Masonic
Cemetery
Lufberry
Memorial
Park
Holy Trinity
Cemetery
Moses
Y. Beach
School
Wallace Park
Grand &
Washington
Streets Park
Railroad
Green
Center
Street
Cemetery
West Side
Park
Doolittle
Park
Simpson Pond
Quinnipiac
River
State Park
Beth Israel
Cemetery
Lyman
Hall High
School
Kendrick Park
Prospect Road
Academy Road
State Hwy 70
Meriden Road
Yalesville Road
State Hwy 68
Bethany Mountain Road
Cheshire Road
State Hwy 42
State Hwy 69
Bethany Road
State Hwy 10
Sperry Road
Cook Hill Road
Turnpike Road
Wilbur Cross Pkwy
State Hwy 150
State Hwy 15
Colony Road
Main Street
Elm Street
Hanover Road
New Hanover Avenue
Old Colony Road
Gypsy Lane
Masonic Avenue
68
69
42
10
70
71
150
15
5
Legend
Proposed Verizon Wireless Facility
Existing Verizon Wireless Facilities
Major Route
Town Line
Existing and Proposed RSRP >=-85 (in building)
Existing and Proposed RSRP >=-95 (vehicular)
Existing and Proposed RSRP >=-105 (outdoor)
verizon
ALL-POINTS
TECHNOLOGY CORPORATION
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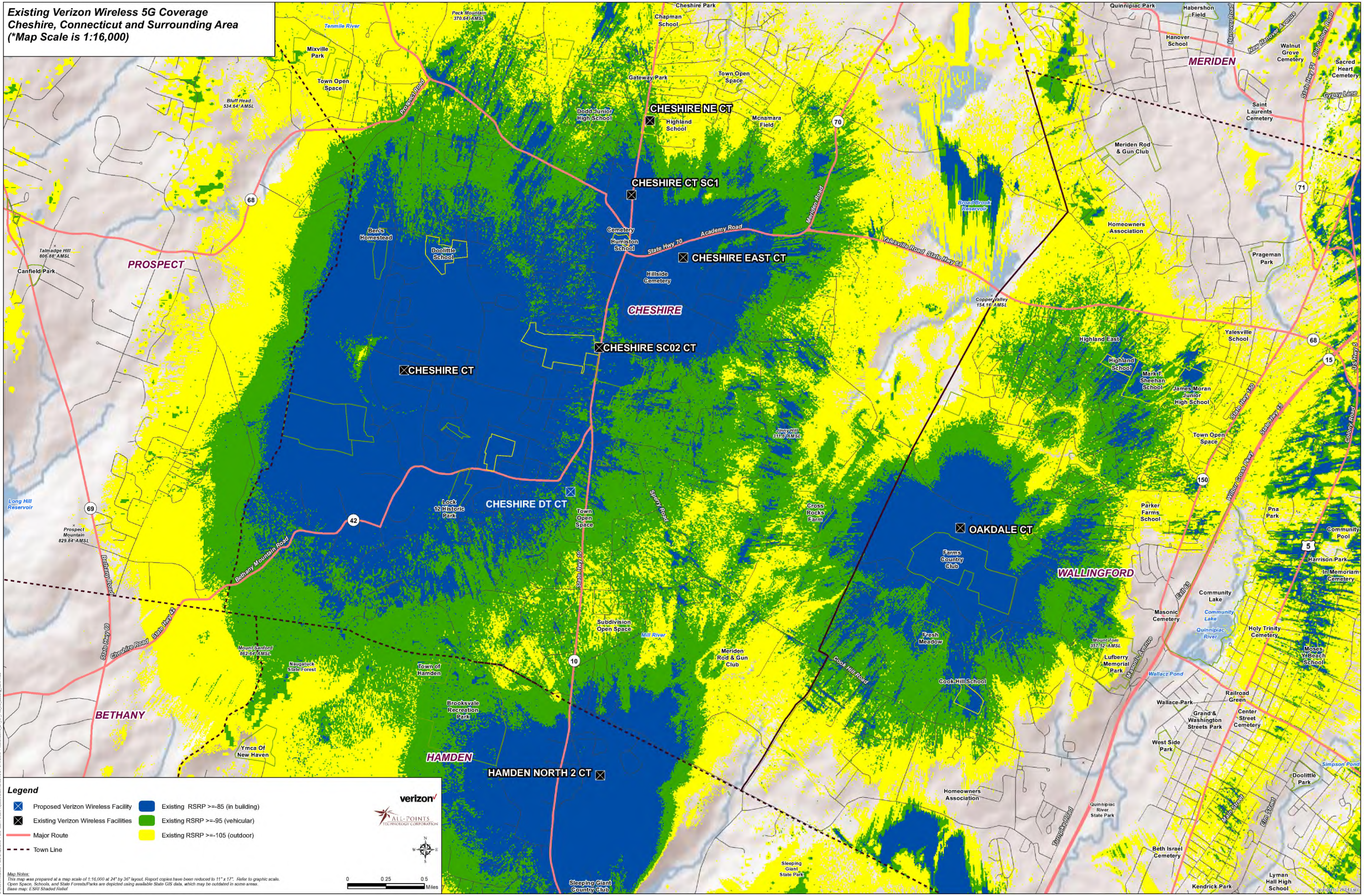
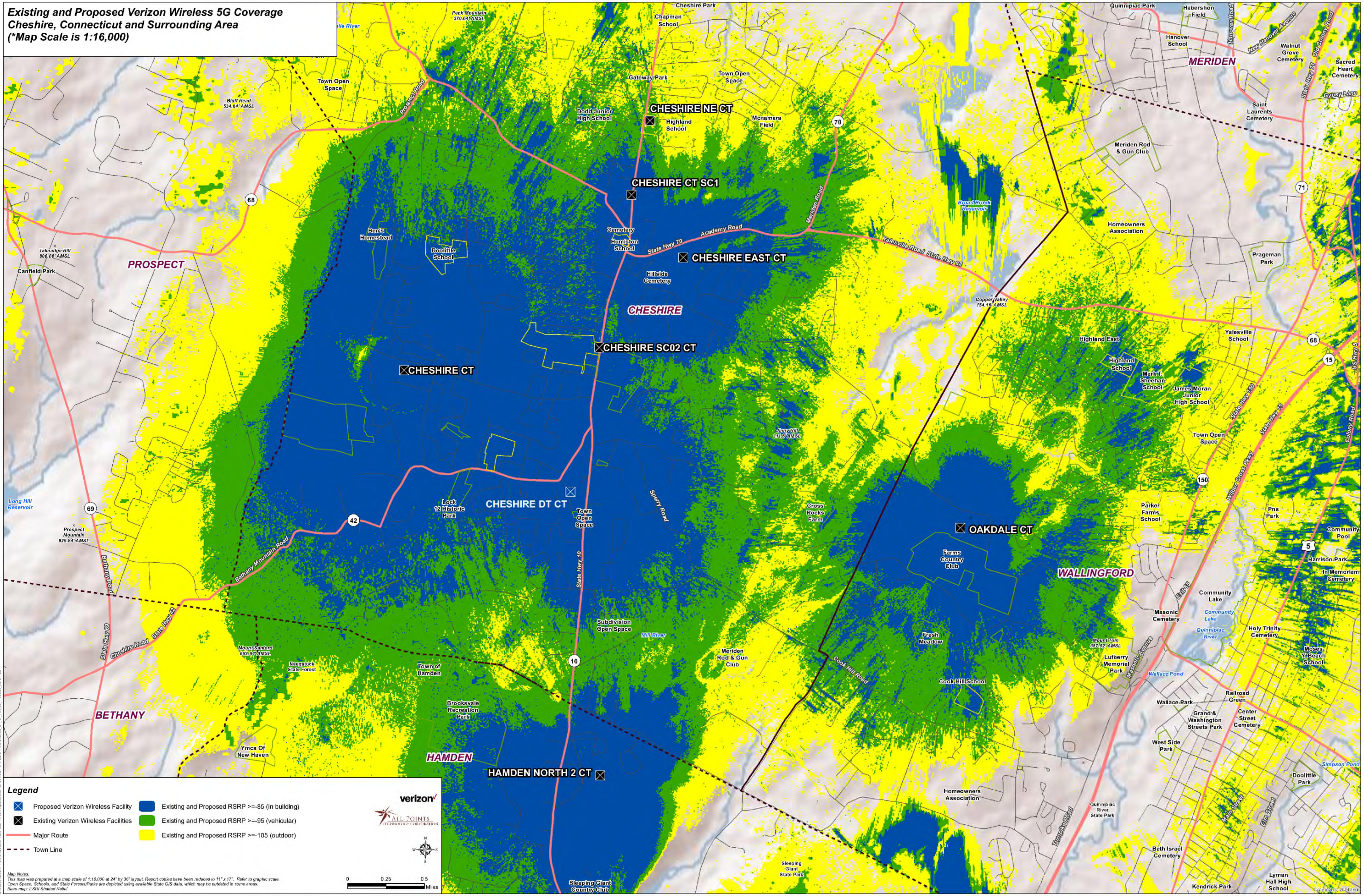
Base map: ESRI Shaded Relief
0
0.25
0.5
Miles

Existing Verizon Wireless 5G Coverage
Cheshire, Connecticut and Surrounding Area
(*Map Scale is 1:16,000)



Existing and Proposed Verizon Wireless 5G Coverage
Cheshire, Connecticut and Surrounding Area
(*Map Scale is 1:16,000)

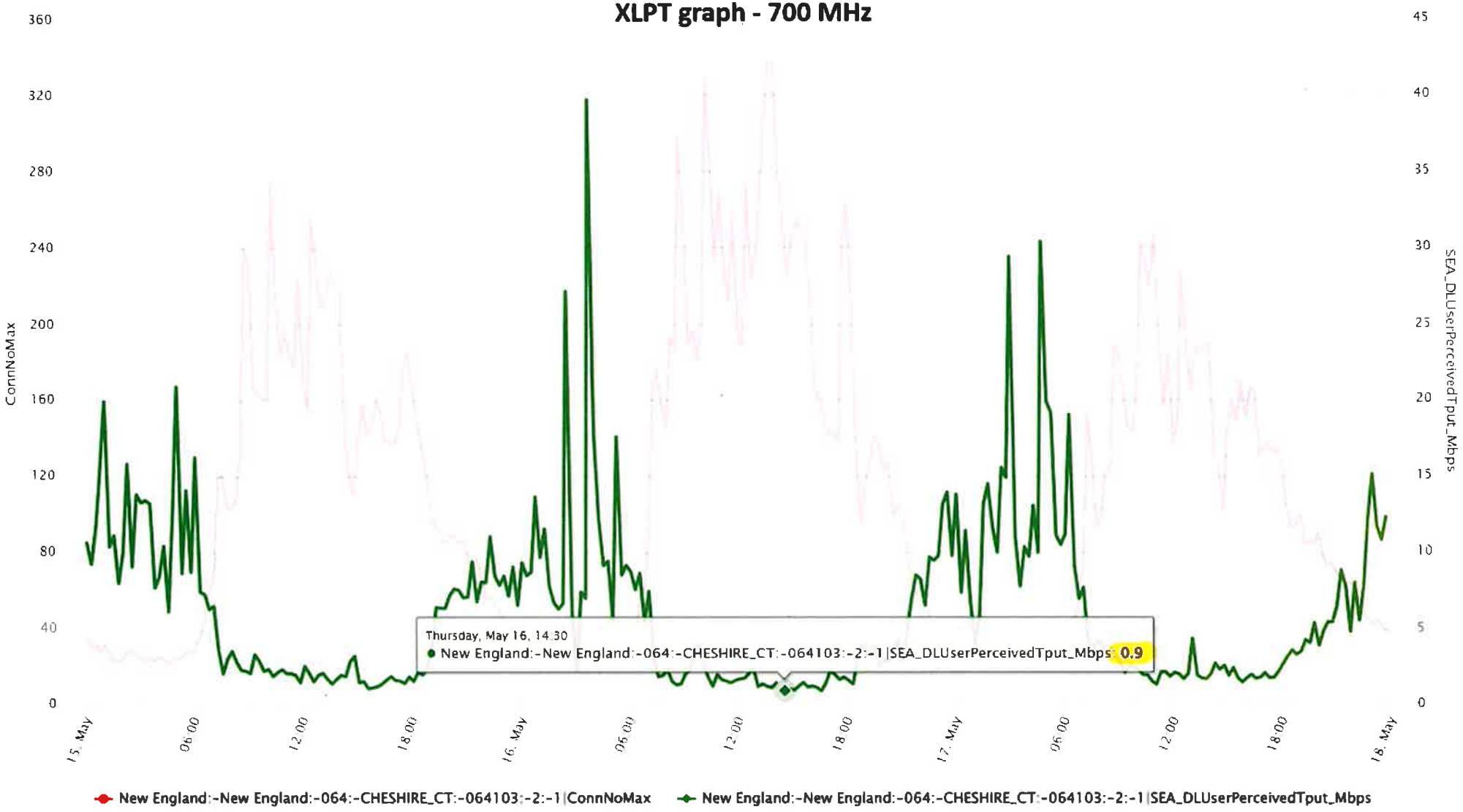


Map Notes:
This map was prepared at a map scale of 1:16,000 at 24" by 36" layout. Report copies have been reduced to 11" x 17". Refer to graphic scale.
Open Space, Schools, and State Forests/Parks are depicted using available State GIS data, which may be outdated in some areas.
Base map: ESRI Shaded Relief

ATTACHMENT 2

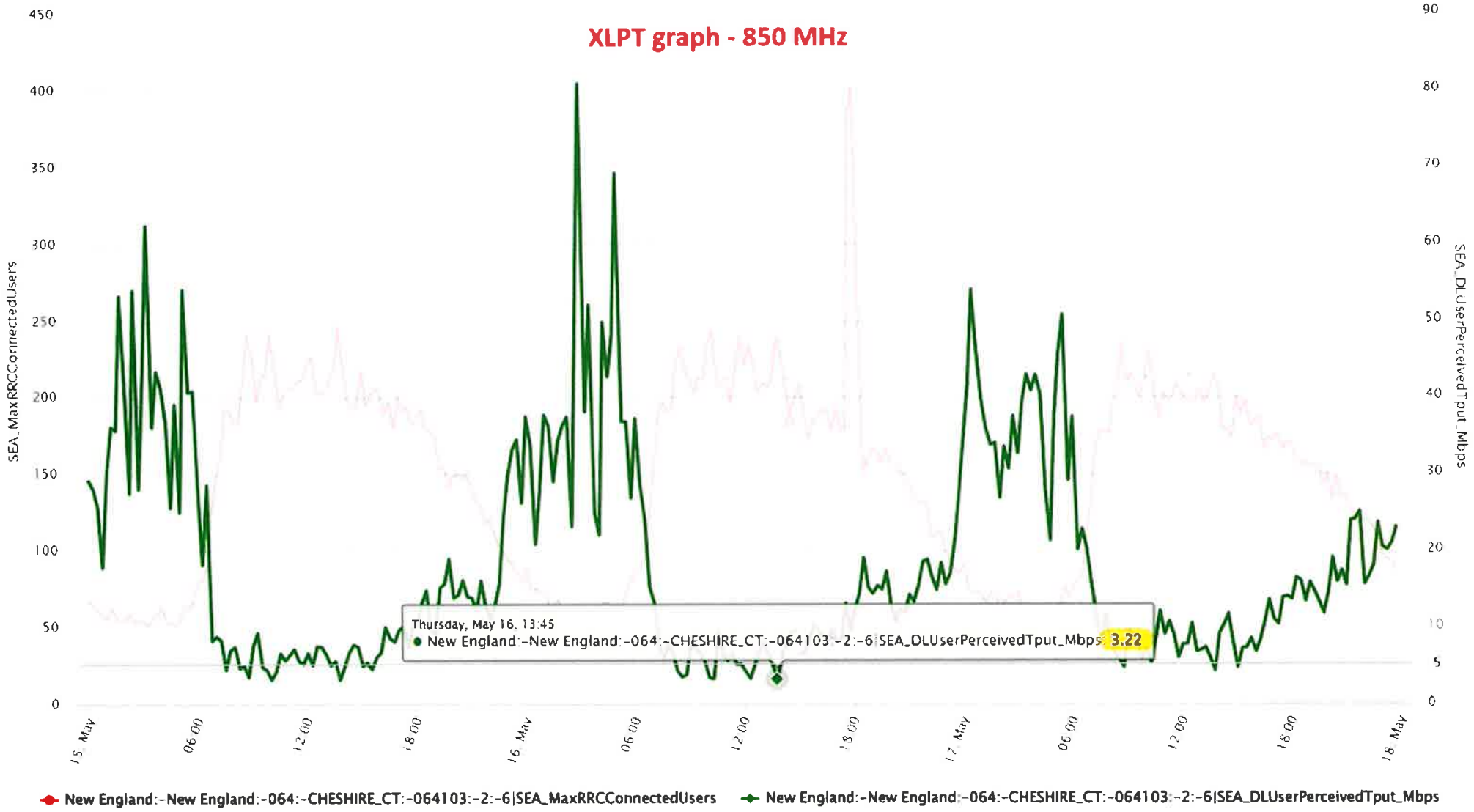
LTE Performance Tools

XLPT graph - 700 MHz



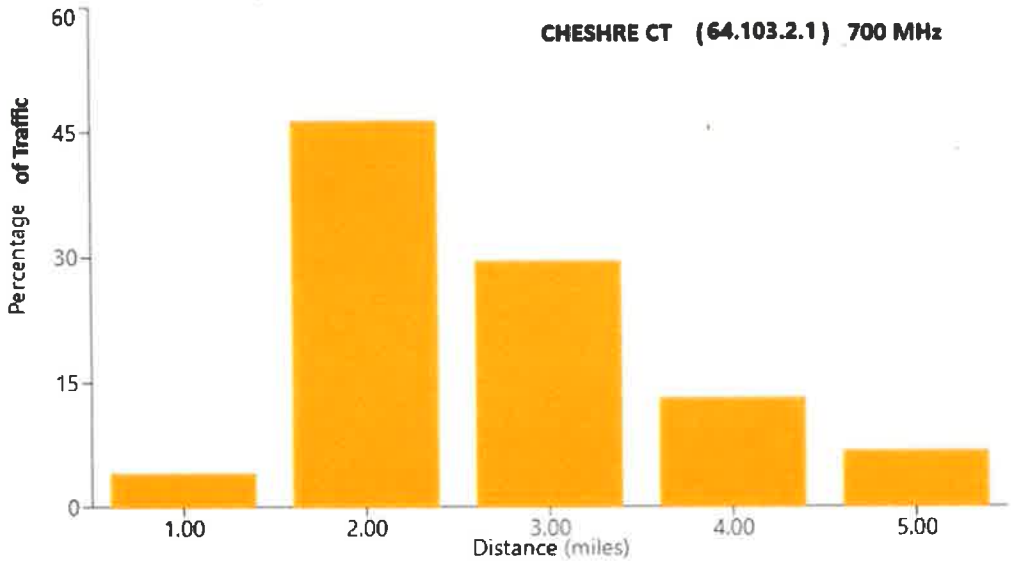
X-axis : Day and Time
Y-axis on the left : number of connections (red/pink-ish graph)
Y-axis on the right : data speeds delivered in Mbps (green graph)

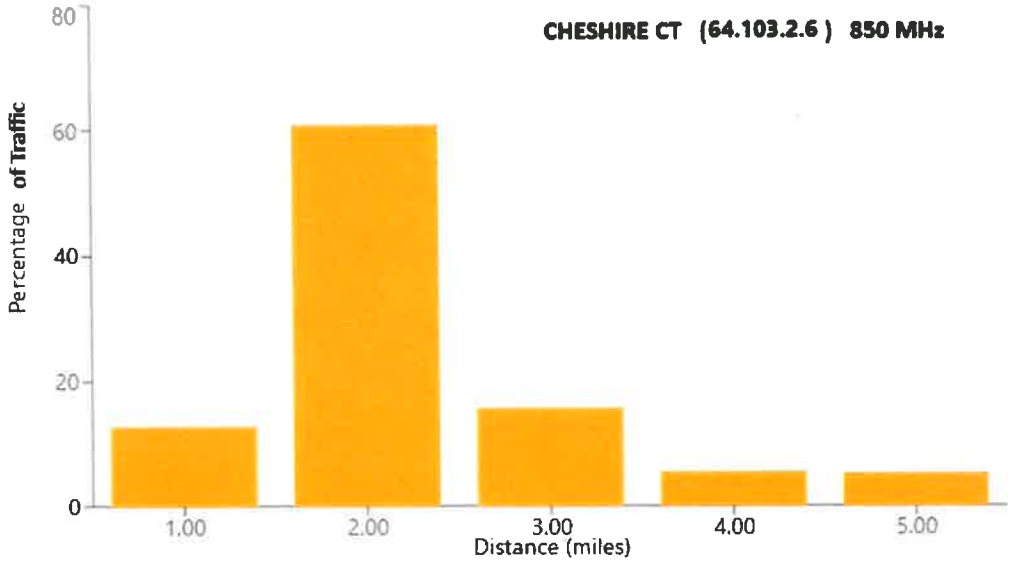
XLPT graph - 850 MHz



X-axis : Day and Time
Y-axis on the left : number of connections (red/pink-ish graph)
Y-axis on the right : data speeds delivered in Mbps (green graph)

ATTACHMENT 3





X-axis : distance in miles from the site
Y-axis : % of traffic handled

ATTACHMENT 4

ENVIRONMENTAL NOTES - RESOURCES PROTECTION PROGRAM

AQUIFER PROTECTION AREA AND PUBLIC WATER SUPPLY WATERSHED

As a result of the project's location within the South Central Connecticut Regional Water Authority's South Cheshire Aquifer Protection Area and Public Water Supply Watershed (PWS ID: CT0930011), the following Best Management Practices ("BMPs") shall be implemented by the Contractor to avoid unintentional impacts to public drinking water resources during construction activities.

The Aquifer Protection Area protection measures included herein satisfy typical BMPs recommended by the Drinking Water Section of the Connecticut Department of Public Health.

It is of the utmost importance that the Contractor complies with the requirement for the installation of protective measures and the education of its employees and subcontractors performing work on the project site. All-Points Technology Corporation, P.C. ("APT") will serve as the Environmental Monitor for this project to ensure that these protection measures are implemented properly and will provide an education session on the project's location within public water supply resources prior to the start of construction activities. The Contractor shall contact Dean Gustafson, Senior Wetland Scientist at APT, at least 5 business days prior to the pre-construction meeting. Mr. Gustafson can be reached by phone at (860) 552-2033 or via email at dgustafson@allpointstech.com.

The South Central Connecticut Regional Water Authority will be contacted at least 3 business days prior to the pre-construction meeting with an invitation to attend the pre-construction meeting. South Central Connecticut Regional Water Authority personnel will also be allowed to periodically inspect this project during construction to ensure that public water supply resources are being adequately protected.

This resources protection program consists of several components including: education of all contractors and sub-contractors prior to initiation of work on the site; installation of erosion controls; petroleum materials storage and spill prevention; herbicide, pesticide, and salt restrictions; and, reporting.

1. **Contractor Education:**

    a. Prior to work on site and initial deployment/mobilization of equipment and materials, the Contractor shall attend an educational session at the pre-construction meeting with APT. This orientation and educational session will consist of information such as, but not limited to, the need to follow the public water supply protection measures.

    b. The Contractor will be provided with phone (24 hour contact) and email for South Central Connecticut Regional Water Authority personnel to immediately report any releases of sediment, fuel or hazardous materials.

    c. The Contractor will be provided with cell phone and email contacts for APT personnel to immediately report any releases from the project during construction.

d. APT will also post Caution Signs throughout the project site for the duration of the construction project providing notice of the environmentally sensitive nature of the work area.

2. Erosion and Sedimentation Controls/Isolation Barriers

a. Plastic netting used in a variety of erosion control products (i.e., erosion control blankets, fiber rolls [wattles], reinforced silt fence) has been found to entangle wildlife, including reptiles, amphibians, birds and small mammals. No permanent erosion control products or reinforced silt fence will be used on the project. Temporary erosion control products that will be exposed at the ground surface and represent a potential for wildlife entanglement will use either erosion control blankets and fiber rolls composed of processed fibers mechanically bound together to form a continuous matrix (netless) or netting composed of planar woven natural biodegradable fiber to avoid/minimize wildlife entanglement.

b. Installation of erosion and sedimentation controls, required for erosion control compliance and creation of a barrier to possible migrating/dispersing wildlife, shall be performed by the Contractor if any soil disturbance occurs or heavy machinery is anticipated to be used on slopes. The Environmental Monitor will inspect the work zone area prior to and following erosion control barrier installation.

c. The Contractor is responsible for daily inspections of the sedimentation and erosion controls for tears or breeches and accumulation levels of sediment, particularly following storm events that generate a discharge, as defined by and in accordance with applicable local, state and federal regulations. The Contractor shall notify the APT Environmental Monitor within 24 hours of any breeches of the sedimentation and erosion controls and any sediment releases beyond the perimeter controls. The APT Environmental Monitor will provide periodic inspections of the sedimentation and erosion controls throughout the duration of construction activities only as it pertains to their function to protect the town-designated aquifer protection zone. Such inspections will generally occur once per month. The frequency of monitoring may increase depending upon site conditions, level of construction activities in proximity to sensitive receptors, or at the request of regulatory agencies. If the Environmental Monitor is notified by the Contractor of a sediment release, an inspection will be scheduled specifically to investigate and evaluate possible impacts to resources.

d. Third party monitoring of sedimentation and erosion controls will be performed by other parties, as necessary, under applicable local, state and/or federal regulations and permit conditions.

e. The extent of the erosion controls will be as shown on the site plans. The Contractor shall have additional erosion control materials should field conditions warrant extending the fencing as directed by the Environmental Monitor.

f. All silt fencing and other erosion control devices shall be removed within 30 days of completion of work and permanent stabilization of site soils. If fiber rolls/wattles, straw bales, or other natural material erosion control products are used, such devices will not be left in place to biodegrade and

shall be promptly removed after soils are stable so as not to create a barrier to wildlife movement. Seed from seeding of soils should not spread over fiber rolls/wattles as it makes them harder to remove once soils are stabilized by vegetation.

3. Petroleum Materials Storage and Spill Prevention

a. Certain precautions are necessary to store petroleum materials, refuel and contain and properly clean up any inadvertent fuel or petroleum (i.e., oil, hydraulic fluid, etc.) spill due to the project's location within public water supply resources.

b. A spill containment kit consisting of a sufficient supply of absorbent pads and absorbent material will be maintained by the Contractor at the construction site throughout the duration of the project. In addition, a waste drum will be kept on site to contain any used absorbent pads/material for proper and timely disposal off site in accordance with applicable local, state and federal laws.

c. Servicing of machinery shall not be performed on the project site and shall only be completed outside of public water supply resources. If on-site servicing of machinery is required, it shall occur over secondary containment measures.

d. At a minimum, the following petroleum and hazardous materials storage and refueling restrictions and spill response procedures will be adhered to by the Contractor.

i. Petroleum and Hazardous Materials Storage and Refueling
   1. Refueling of vehicles or machinery shall take place on an impervious pad with secondary containment designed to contain fuels.
   2. Fuel and other hazardous materials shall not be stored within the Aquifer Protection Area, which encompasses the entire subject property, during non-working hours.
   3. Any fuel or hazardous materials that must be kept on site during working hours shall be stored on an impervious surface utilizing secondary containment.

ii. Initial Spill Response Procedures
   1. Stop operations and shut off equipment.
   2. Remove any sources of spark or flame.
   3. Contain the source of the spill.
   4. Determine the approximate volume of the spill.
   5. Identify the location of natural flow paths to prevent the release of the spill to catch basins, watercourses, or other sensitive receptors.
   6. Ensure that fellow workers are notified of the spill.

iii. Spill Clean Up & Containment
   1. Obtain spill response materials from the on-site spill response kit. Place absorbent materials directly on the release area.
   2. Limit the spread of the spill by placing absorbent materials

around the perimeter of the spill.
3. Isolate and eliminate the spill source.
4. Contact the South Central Connecticut Regional Water Authority along with appropriate local, state and/or federal agencies, as necessary.
5. Contact a disposal company to properly dispose of contaminated materials.

iv. Reporting
1. Complete an incident report.
2. Submit a completed incident report to local, state and federal agencies, as necessary, including the South Central Connecticut Regional Water Authority and the Connecticut Siting Council.

4. Herbicide, Pesticide, and Salt Restrictions

a. The use of herbicides and pesticides at the facility shall be avoided when possible. In the event herbicides and/or pesticides are required at the Facility, their use will be used in accordance with current Integrated Pest Management ("IPM") principles.

b. Maintenance of the facility during the winter months shall minimize the application of chloride-based deicers salt with use of more environmentally friendly non-chloride alternatives.

5. Reporting

a. Compliance Monitoring Reports (brief narrative and applicable photos) documenting each APT inspection will be submitted by APT to the permitee for compliance verification. Any observations of corrective actions will be included in the reports.

b. Following completion of the construction project, APT will provide a final compliance monitoring report to the permitee documenting implementation of the public water supply resources protection program and monitoring observations. The permitee shall provide a copy of the final compliance monitoring report to the South Central Connecticut Regional Water Authority and Connecticut Siting Council for compliance verification.

ATTACHMENT 5

REMOTE FIELD REVIEW

ALL-POINTS TECHNOLOGY CORPORATION

CT SITING COUNCIL DOCKET NO. 521
RESPONSE TO INTERROGATORY 56
CHESHIRE DT CT
1021-1041 SOUTH MAIN STREET
CHESHIRE, CT

PREPARED FOR:
verizon
TARPON TOWERS

PREPARED BY:
ALL-POINTS TECHNOLOGY CORPORATION, P.C.
567 Vauxhall Street Extension – Suite 311
Waterford, CT 06385

PHOTO LOG

Photo Location
Photo Marker
Subject Property
Approximate Parcel Boundary
Proposed Verizon Wireless Lease Area
Proposed Verizon Wireless Equipment Compound
Proposed Verizon Wireless Equipment
Proposed Verizon Wireless Utility Easement
Proposed Verizon Wireless Overhead Utilities
Proposed Verizon Wireless Conduit
Existing Utility Pole (By Others)

N
150 75 0 150 Feet
1 inch = 150 feet

ALL-POINTS TECHNOLOGY CORPORATION

Proposed Wireless
Telecommunications Facility
Cheshire DT CT
1021-1041 South Main Street
Cheshire, Connecticut

PHOTOGRAPHED ON 5/17/2024

PHOTO	DESCRIPTION
1	**SOUTH MAIN STREET LOOKING NORTHWEST**

ALL-POINTS TECHNOLOGY CORPORATION

TARPON TOWERS

verizon

PHOTOGRAPHED ON 5/17/2024

PHOTO	DESCRIPTION
2	**SOUTH MAIN STREET LOOKING WEST**

ALL-POINTS TECHNOLOGY CORPORATION | TARPON TOWERS | verizon

PHOTOGRAPHED ON 5/17/2024

PHOTO	DESCRIPTION
3	**SOUTH MAIN STREET LOOKING SOUTHWEST**

ALL-POINTS TECHNOLOGY CORPORATION | TARPON TOWERS | verizon

PHOTOGRAPHED ON 5/17/2024

PHOTO	DESCRIPTION
4	**COMPOUND ACCESS ROUTE LOOKING WEST**

ALL-POINTS TECHNOLOGY CORPORATION | TARPON TOWERS | verizon

PHOTOGRAPHED ON 5/17/2024

PHOTO	DESCRIPTION
5A	**COMPOUND ACCESS ROUTE LOOKING WEST**

ALL-POINTS TECHNOLOGY CORPORATION | TARPON TOWERS | verizon

PHOTO	DESCRIPTION
5B	COMPOUND ACCESS ROUTE LOOKING EAST

PHOTO	DESCRIPTION
6A	COMPOUND ACCESS ROUTE LOOKING WEST

PHOTOGRAPHED ON 5/17/2024

PHOTO	DESCRIPTION
6B	**COMPOUND ACCESS ROUTE LOOKING EAST**

ALL-POINTS TECHNOLOGY CORPORATION | TARPON TOWERS | verizon

PHOTOGRAPHED ON 5/17/2024

PHOTO	DESCRIPTION
7A	**COMPOUND ACCESS ROUTE LOOKING SOUTHWEST**

ALL-POINTS TECHNOLOGY CORPORATION | TARPON TOWERS | verizon

PHOTOGRAPHED ON 5/17/2024

PHOTO	DESCRIPTION
7B	**COMPOUND ACCESS ROUTE LOOKING EAST**

ALL-POINTS TECHNOLOGY CORPORATION | TARPON TOWERS | verizon

PHOTO	DESCRIPTION
8A	**LOOKING NORTHWEST**

ALL-POINTS TECHNOLOGY CORPORATION
TARPON TOWERS
verizon

PHOTOGRAPHED ON 5/17/2024

PHOTO	DESCRIPTION
8B	LOOKING SOUTHWEST TOWARDS COMPOUND

ALL-POINTS TECHNOLOGY CORPORATION | TARPON TOWERS | verizon

PHOTO	DESCRIPTION
9	**LOOKING SOUTH TOWARDS COMPOUND**

ALL-POINTS TECHNOLOGY CORPORATION | TARPON TOWERS | verizon

PHOTO	DESCRIPTION
10A	LOOKING SOUTHWEST TOWARDS COMPOUND

ALL-POINTS TECHNOLOGY CORPORATION | TARPON TOWERS | verizon

PHOTO	DESCRIPTION
10B	**LOOKING NORTH**

ALL-POINTS TECHNOLOGY CORPORATION | TARPON TOWERS | verizon

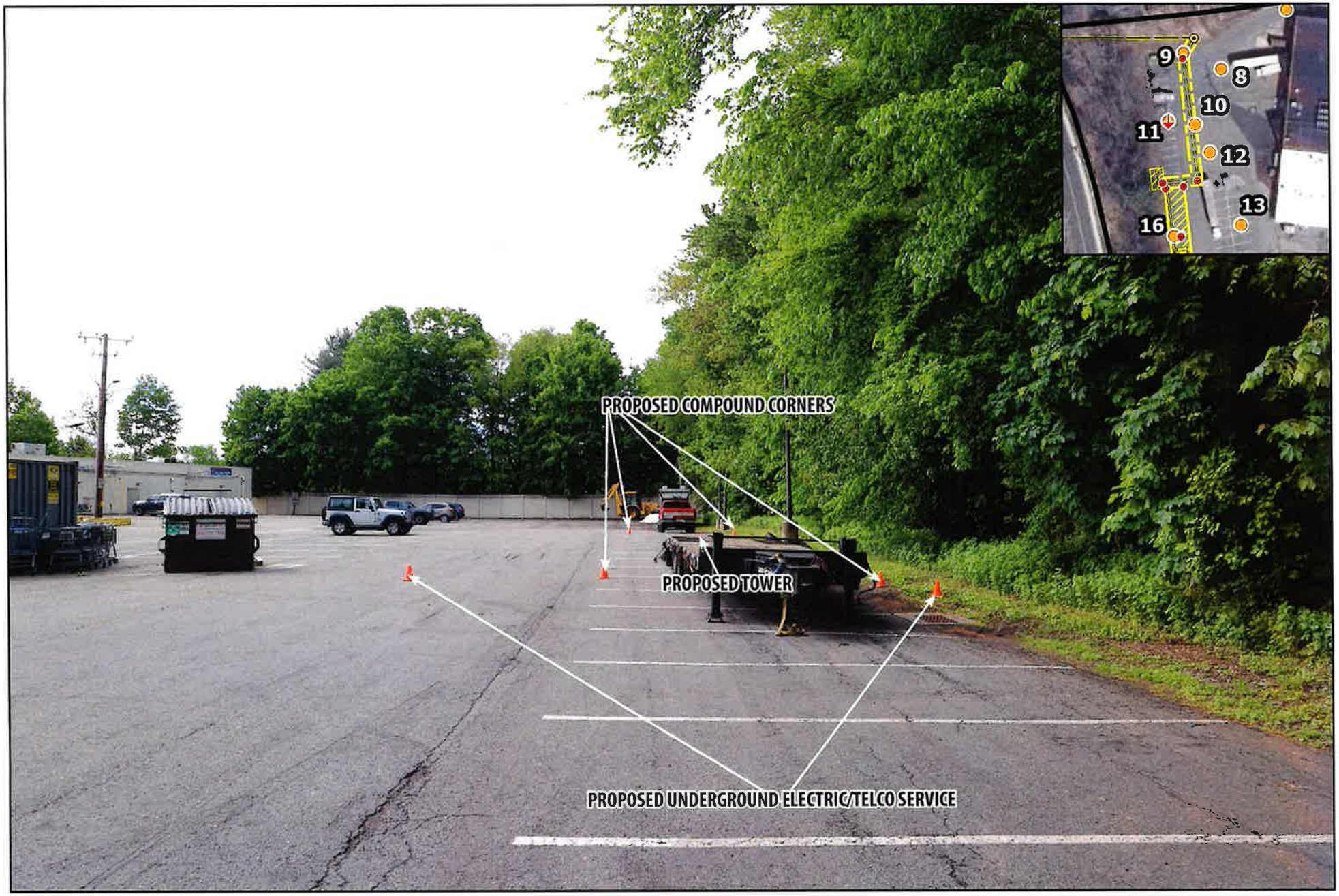


PHOTO	DESCRIPTION
11	**LOOKING SOUTH TOWARDS COMPOUND**

ALL-POINTS TECHNOLOGY CORPORATION | TARPON TOWERS | verizon

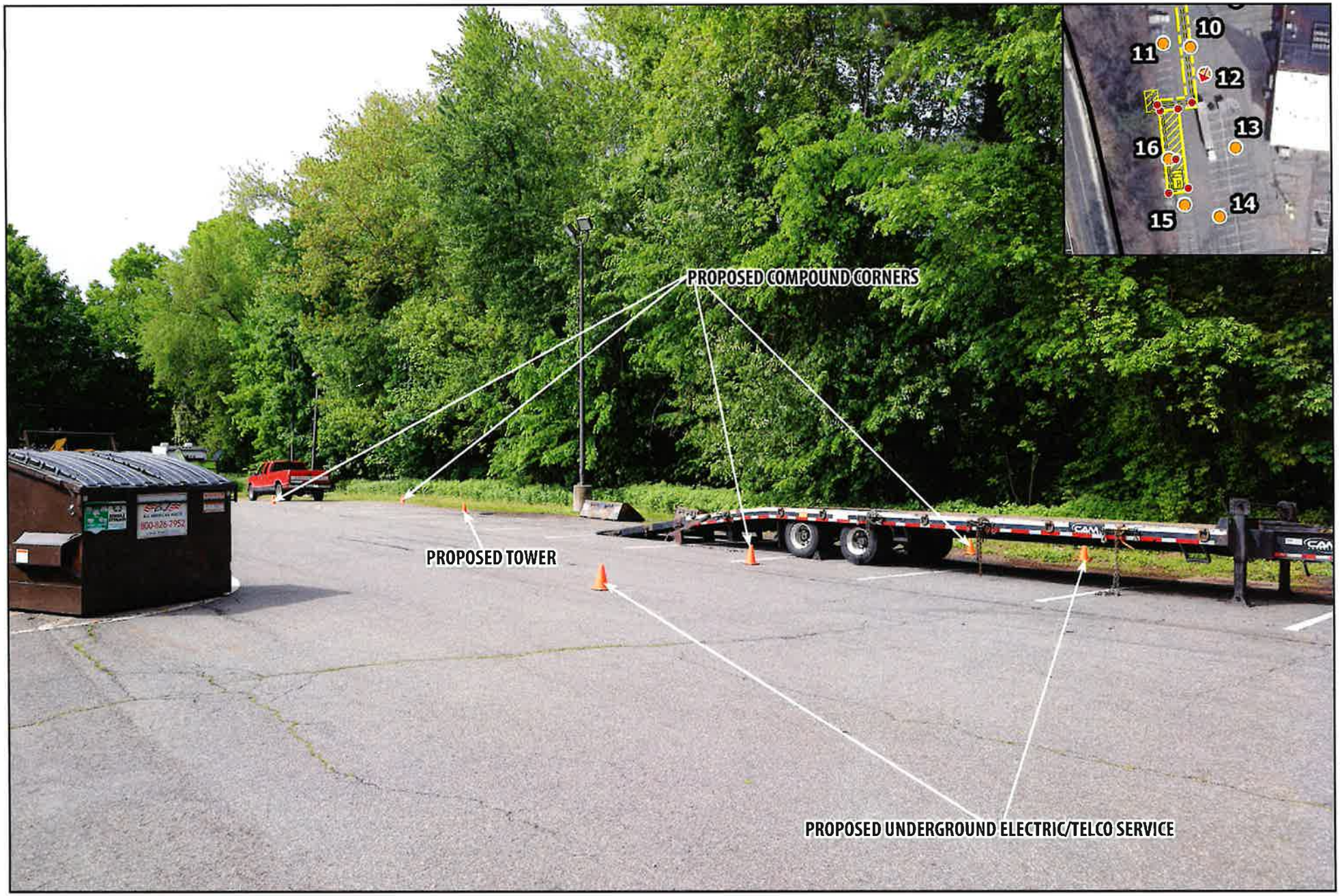
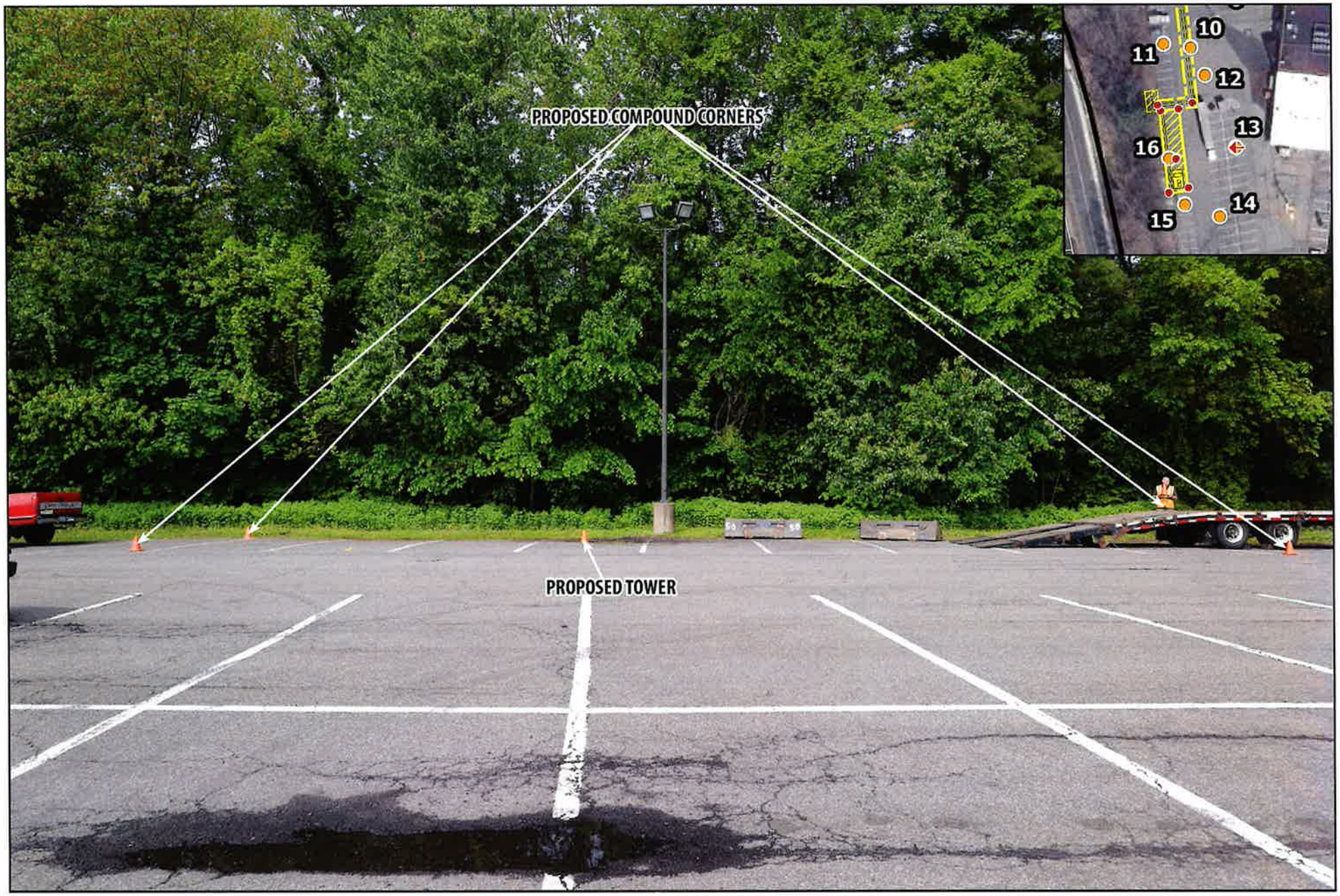


PHOTO	DESCRIPTION
12	**LOOKING SOUTHWEST TOWARDS COMPOUND**

ALL-POINTS TECHNOLOGY CORPORATION | TARPON TOWERS | verizon



PHOTOGRAPHED ON 5/17/2024

PHOTO	DESCRIPTION
13	**LOOKING WEST TOWARDS COMPOUND**

ALL-POINTS TECHNOLOGY CORPORATION | TARPON TOWERS | verizon

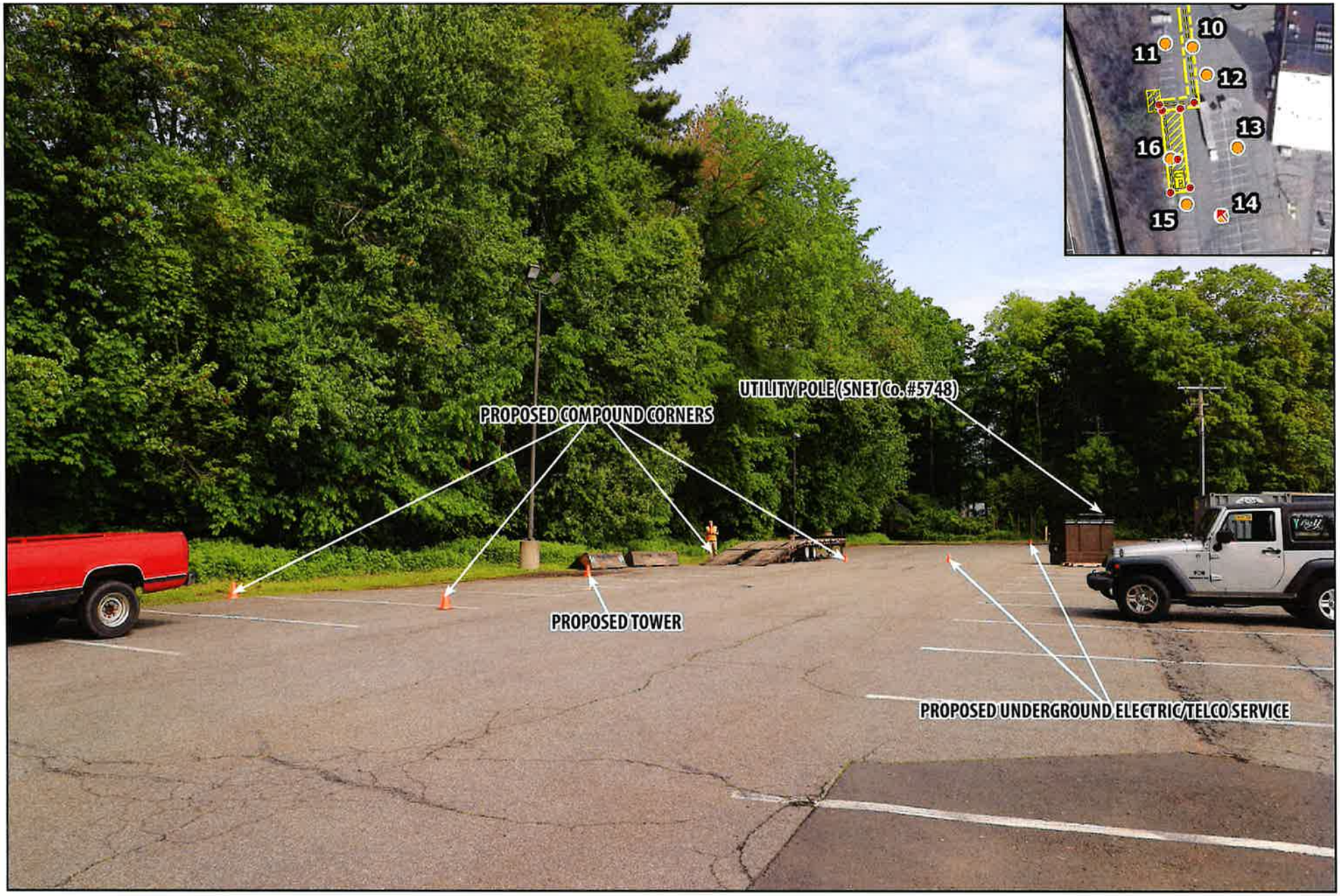


PHOTO	DESCRIPTION
14	**LOOKING NORTHWEST TOWARDS COMPOUND**

ALL-POINTS TECHNOLOGY CORPORATION | TARPON TOWERS | verizon

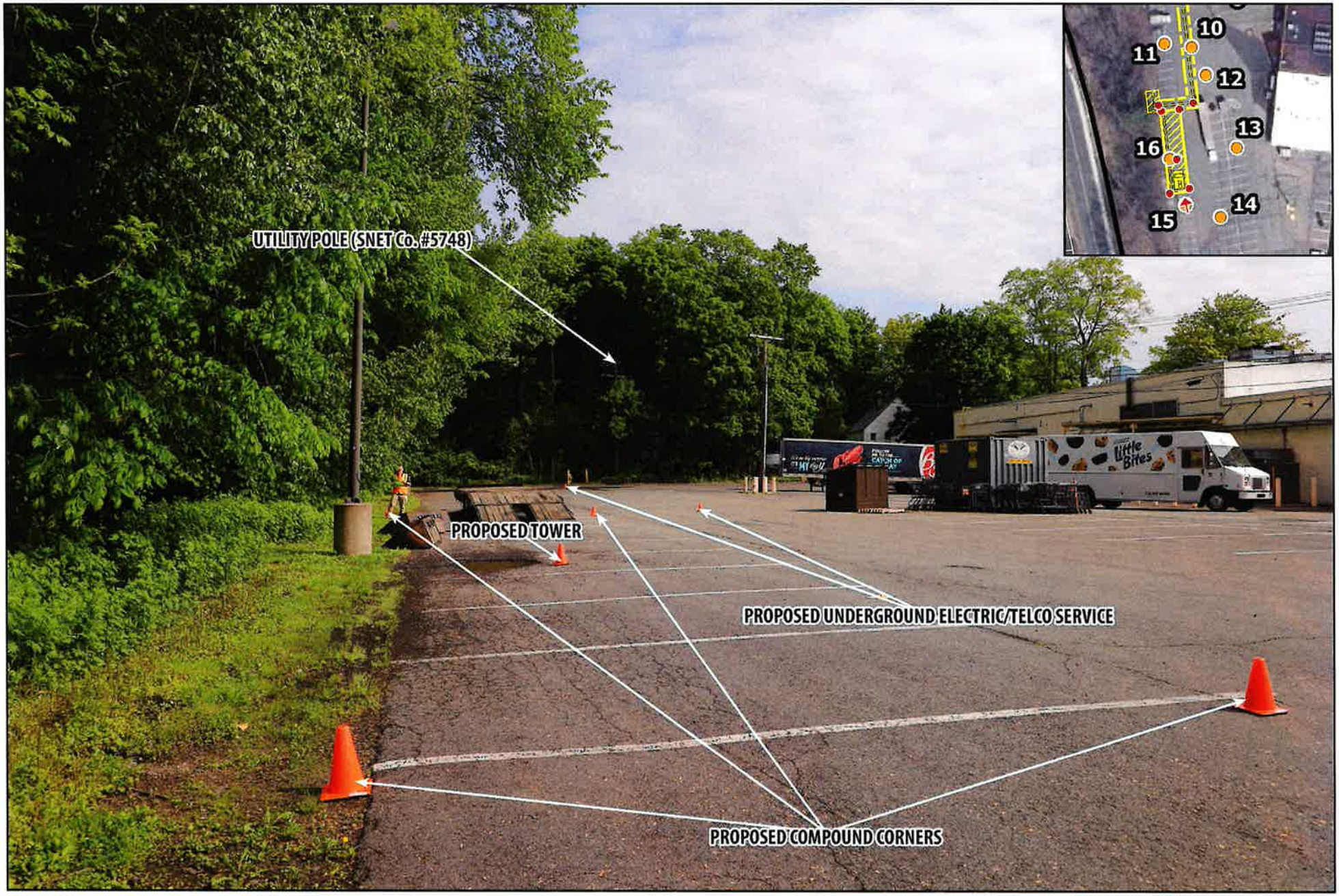
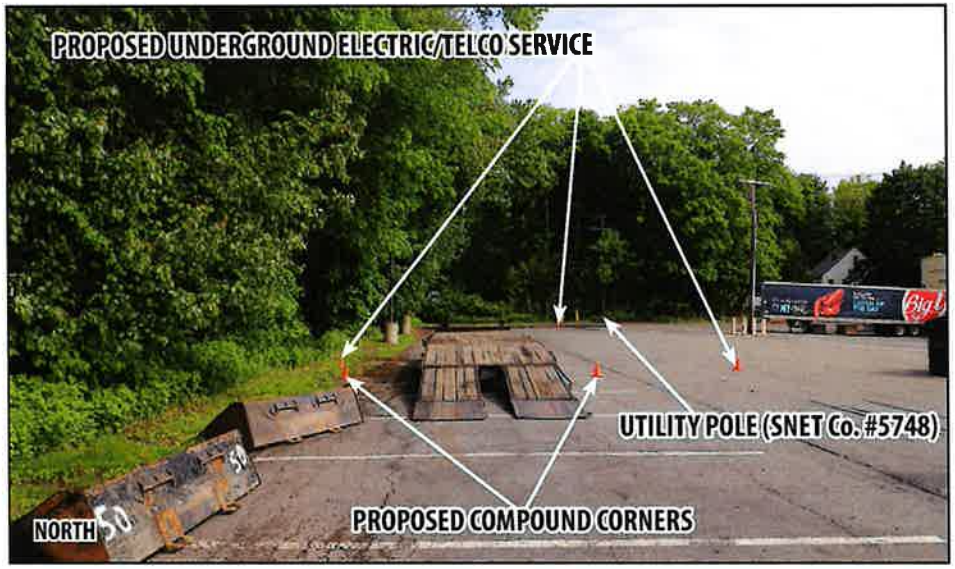


PHOTO	DESCRIPTION
15	**LOOKING NORTH TOWARDS COMPOUND**

ALL-POINTS TECHNOLOGY CORPORATION | TARPON TOWERS | verizon



PHOTOGRAPHED ON 5/17/2024

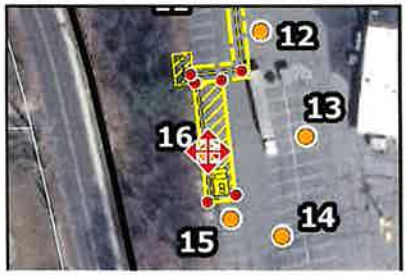


PHOTO	DESCRIPTION
16	**VIEW FROM PROPOSED TOWER - FOUR CARDINAL POINTS**

ALL-POINTS TECHNOLOGY CORPORATION
TARPON TOWERS
verizon