



# TOWN OF SOMERS

## WIRELESS TELECOMMUNICATION INFRASTRUCTURE ANALYSIS



# OVERVIEW

Smartphones and smart wireless devices are a fixture of every-day life for millions of people. In 2021, the number of unique mobile internet users globally was 4.32 billion with over 90% using a wireless device to connect.<sup>1</sup> Consumers using these devices expect fast and uninterrupted network connections to the internet, maps, files, videos, news, music, along with the myriad of available applications. For these devices to function optimally a lot of bandwidth is required. To facilitate the device demands, antennas mounted on towers or other elevated infrastructure is necessary.

Functionality is best when the signal transmits directly from the antenna to the consumer's wireless device(s) without obstruction from buildings, trees and/or ridgelines. Macro cell wireless facilities provide the greatest flexibility and coverages for wireless service providers. Without obstructions these facilities can generally cover a two-mile geographic radius in more densely populated areas and about a four-mile radius in suburban and rural areas. Small wireless facilities can be utilized in more populated areas to provide additional services where capacity overloads may be an issue or in areas with viewshed sensitivities. These small wireless facilities typically have approximately a quarter mile service radius.

Coverage gaps result from having facilities with a lot of obstructions, too few antennas within a particular service area or in areas where network capacity overloads occur. Capacity overloads are when the number of wireless subscribers using their devices simultaneously exceeds the performance capability of the wireless facility. Additional antenna infrastructure would be necessary to improve these coverage and/or capacity concerns.

Understanding, evaluating and planning for a well-designed wireless system begins with identifying all existing towers and base stations.

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<sup>1</sup> Statista, October 18, 2022



# WIRELESS INFRASTRUCTURE INVENTORY

The existing wireless facilities in Somers have been assessed, mapped and analyzed in order to estimate the new wireless facilities anticipated in the Town over the next ten years.

The Somers Study Area is defined as the Somers jurisdictional boundary and a one-mile perimeter surrounding the Town. As of January 1, 2023 there are a total of 25 facilities verified within the Somers Study Area. The facilities consist of 19 towers and six base stations. Of these sites two are inquiries.

Within the Somers jurisdictional boundary there are specifically 11 sites consisting of eight towers and three base stations. Eight of the facilities are used for macrocell antennas, one hosts public safety and macro cells and two are classified as other antenna types. Seven of the sites are located on private property, two on public property and two are in public rights-of-way. Six of the facilities are non-concealed and five are concealed. The two sites in the ROW are Sites S4 and S5 match the definition for a small wireless facility, however, the antenna installed on the utility poles are used for meter reading and not for personal wireless services.

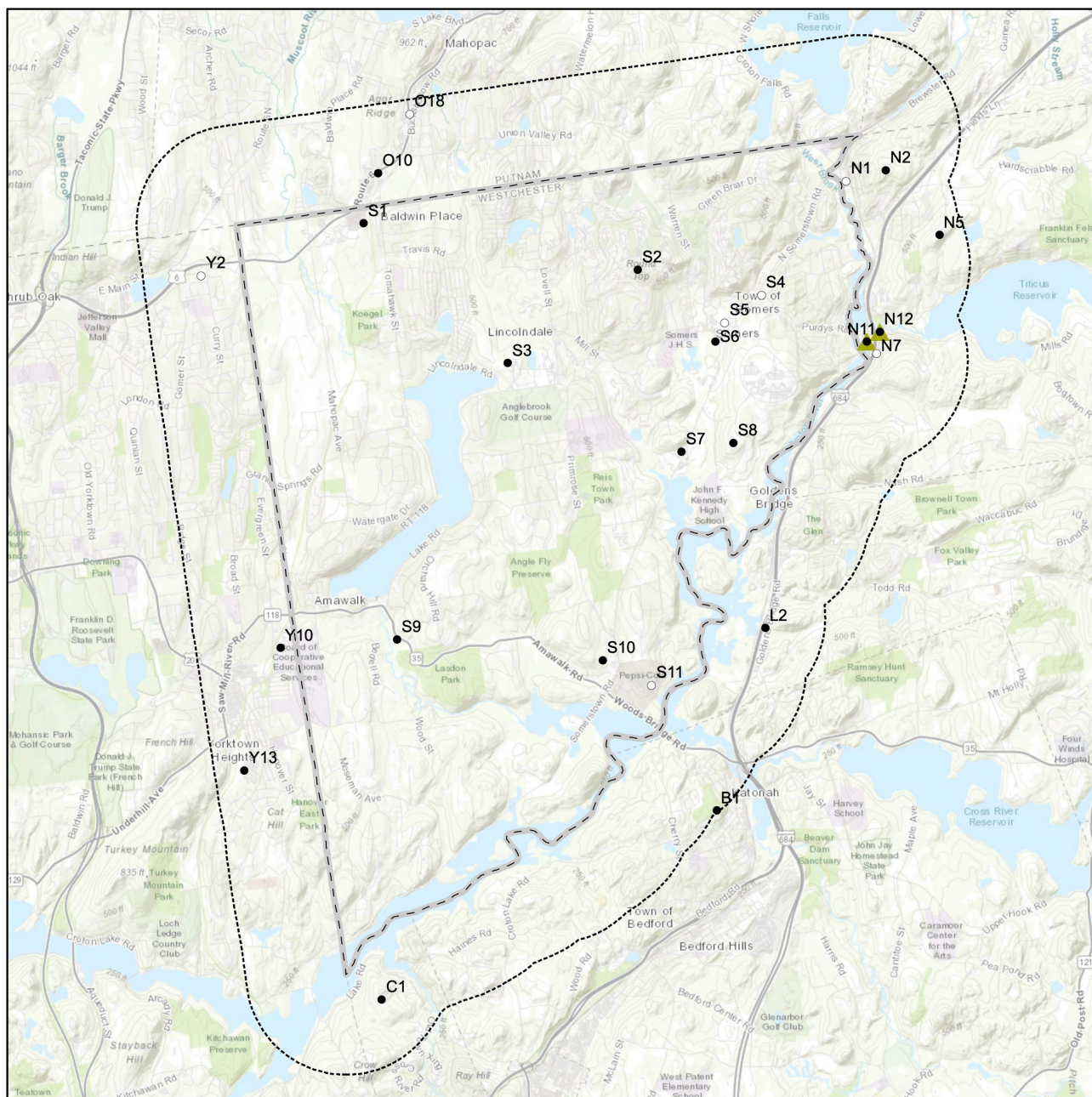
The following *Table S1* summarizes the total number of sites and identifies the inventory by structure type, antenna type, location and design. The inventory of facilities are further depicted on corresponding maps as follows: *Figure S1* Structure Type, *Figure S2* All Antenna Type, *Figure S3* PWSF Antenna Type, *Figure S4* Location and *Figure S5* Design Type.

Greater site detail including facility picture, location map, ownership, providers, type of facility along with any other pertinent individual site information can be found in the Somers Wireless Inventory Catalog in *Appendix H1*.

Somers Study Area		INSIDE JURISDICTION				ONE-MILE PERIMETER			
	TOTAL 25	Existing	Approved Not Built	Proposed Under Review	Inquiry	Existing	Approved Not Built	Proposed Under Review	Inquiry
STRUCTURE TYPE									
Towers	18	8	0	0	0	8	0	0	2
Base Stations	7	3	0	0	0	4	0	0	0
ANTENNA TYPE									
Macro Wireless	19	8	0	0	0	9	0	0	2
Small Wireless	0	0	0	0	0	0	0	0	0
Public Safety/Macro	3	1	0	0	0	2	0	0	0
Public Safety	1	0	0	0	0	1	0	0	0
Other	2	2	0	0	0	0	0	0	0
LOCATION									
Private Property	17	7	0	0	0	9	0	0	1
Public Property	4	2	0	0	0	2	0	0	0
Utility Easement	0	0	0	0	0	0	0	0	0
ROW	4	2	0	0	0	1	0	0	1
DESIGN TYPE									
Concealed	8	5	0	0	0	3	0	0	0
Semi-Concealed	0	0	0	0	0	0	0	0	0
Non-Concealed	15	6	0	0	0	9	0	0	2

Table S1: Inventory by Structure Type





## Northern Westchester County Inventory by: Somers

### Cataloged Structure Type

- Tower (18)
- Base Station (7)
- Approved but Not Yet Built (0)
- Proposed and Under Review (0)
- ▲ Inquiry (2)
- City Boundary
- - - 1 Mile Buffer

Sources: US Census Bureau,  
Cityscape Consultants, Inc, USGS

Map Created by Cityscape  
Consultants, Inc. on

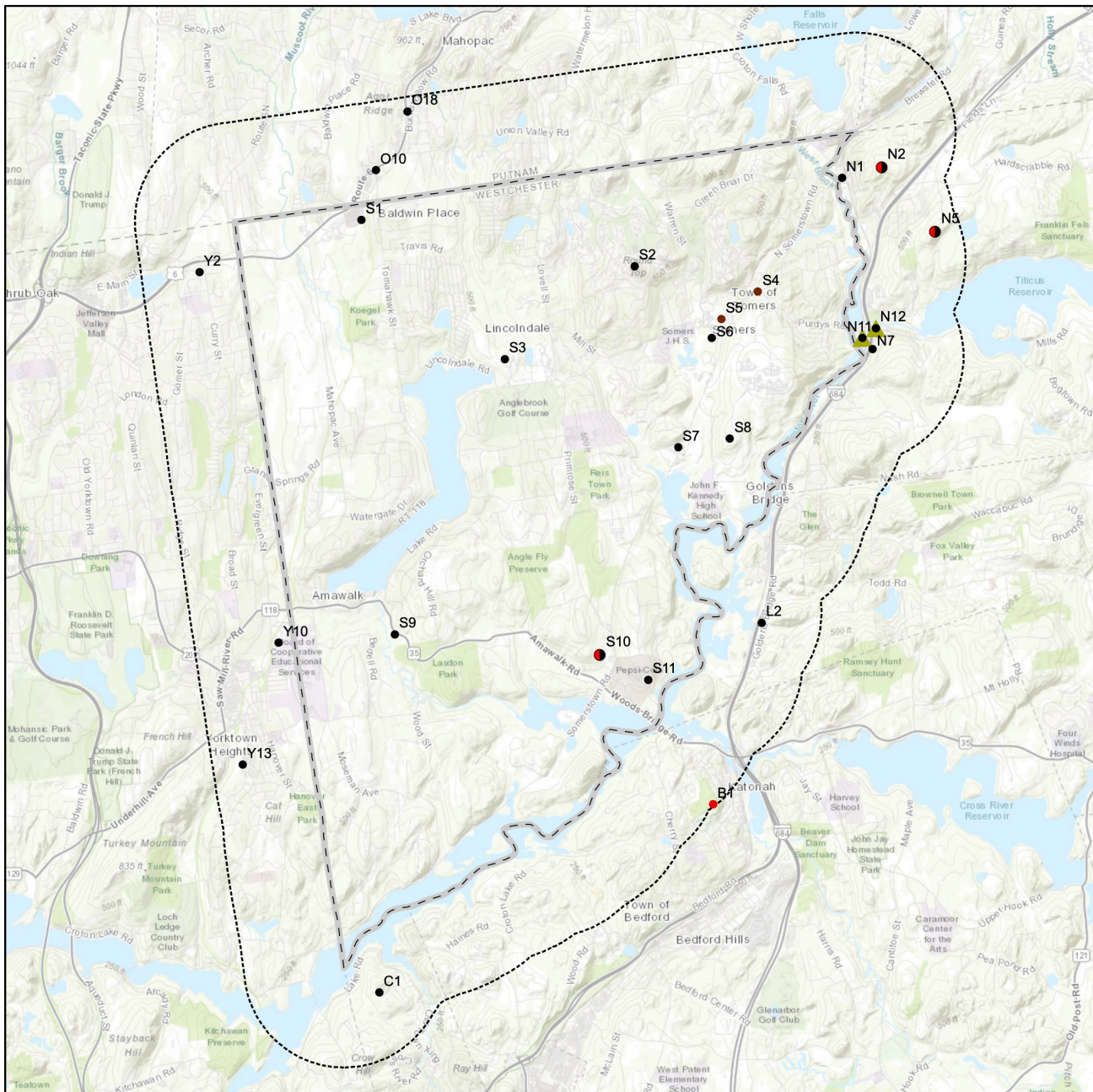
Date: 6/21/2023



0 0.5 1 2 Miles

Figure S1: Map of Existing Inventory by Structure Type





## Northern Westchester County Inventory by: Somers

### Cataloged Antenna Type

- Macrocell Facility (19)
- Small Wireless Facility (0)
- Public Safety (1)
- Macrocell Facility and Public Safety (3)
- Draft Green Field Options (0)
- Other (2)
- Approved but Not Yet Built (0)
- Proposed and Under Review (0)
- ▲ Inquiry (2)
- ▬ City Boundary
- ⋯ 1 Mile Buffer

Sources: US Census Bureau,  
Cityscape Consultants, Inc, USGS

Map Created by Cityscape  
Consultants, Inc. on

Date: 10/8/2022



0 0.5 1 2 Miles

Figure S2: Map of Existing Inventory by All Antenna Type



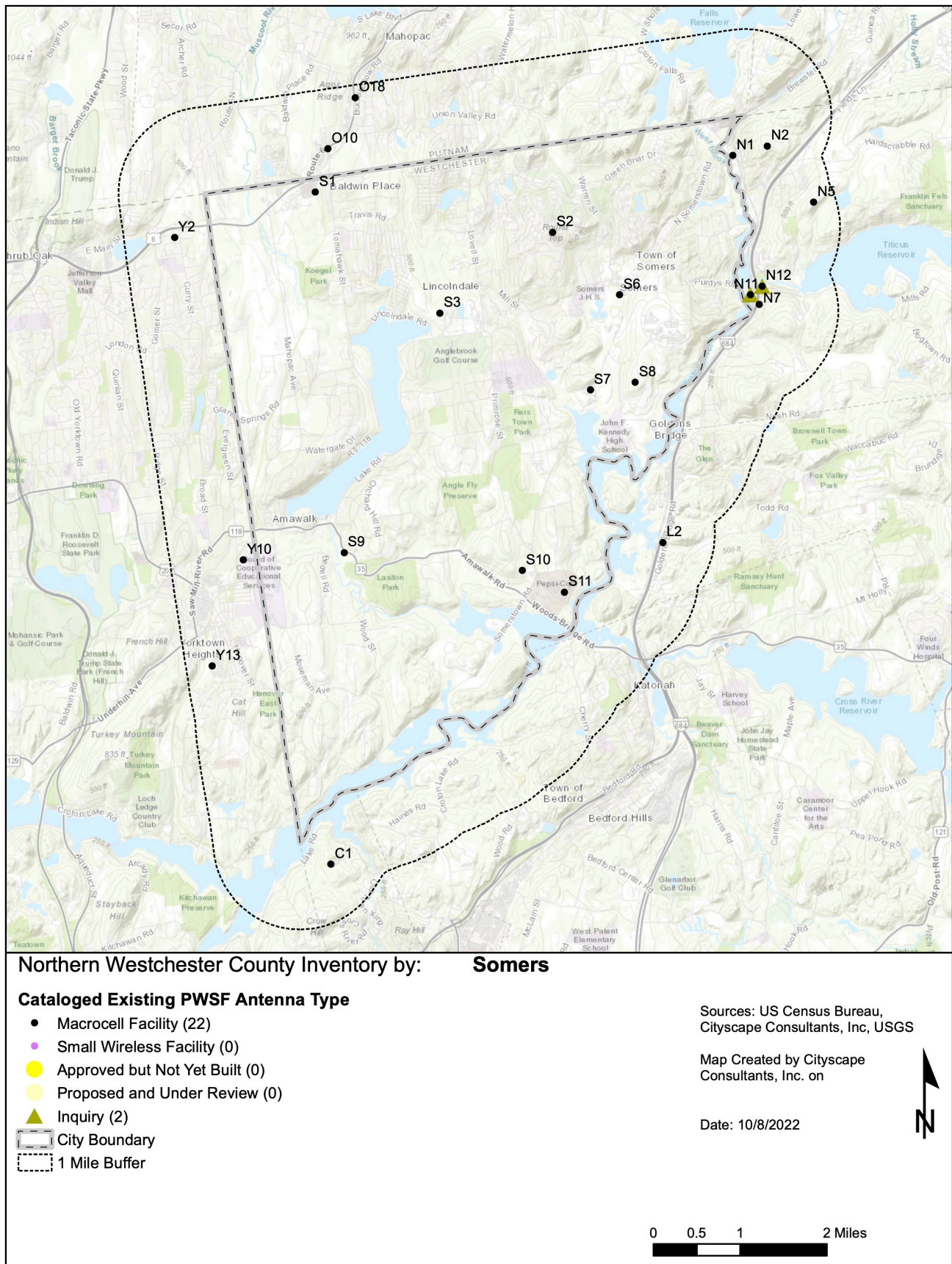


Figure S3: Map of Existing Inventory by PWSF Antenna Type



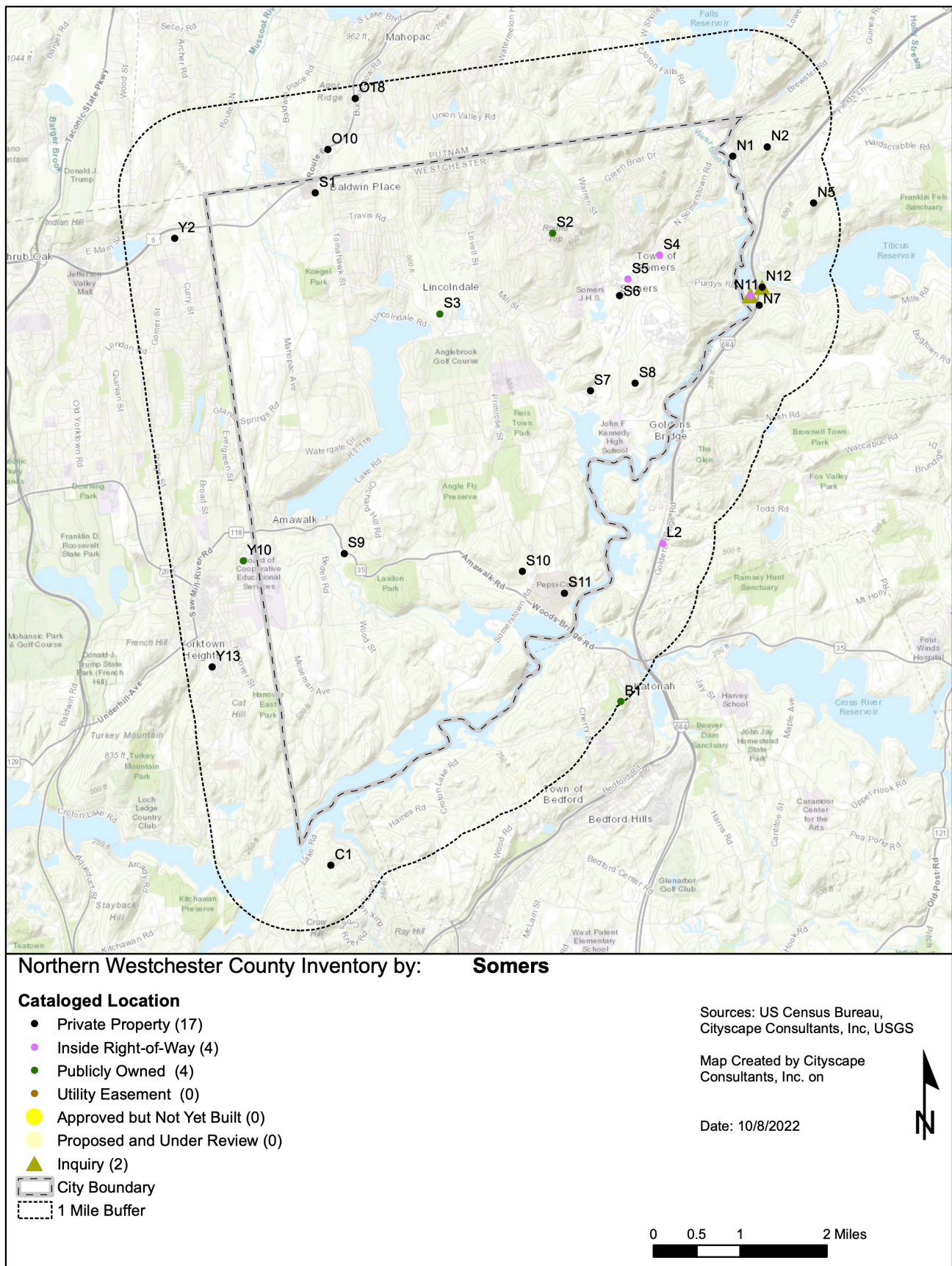


Figure S4: Map of Existing Inventory by Location



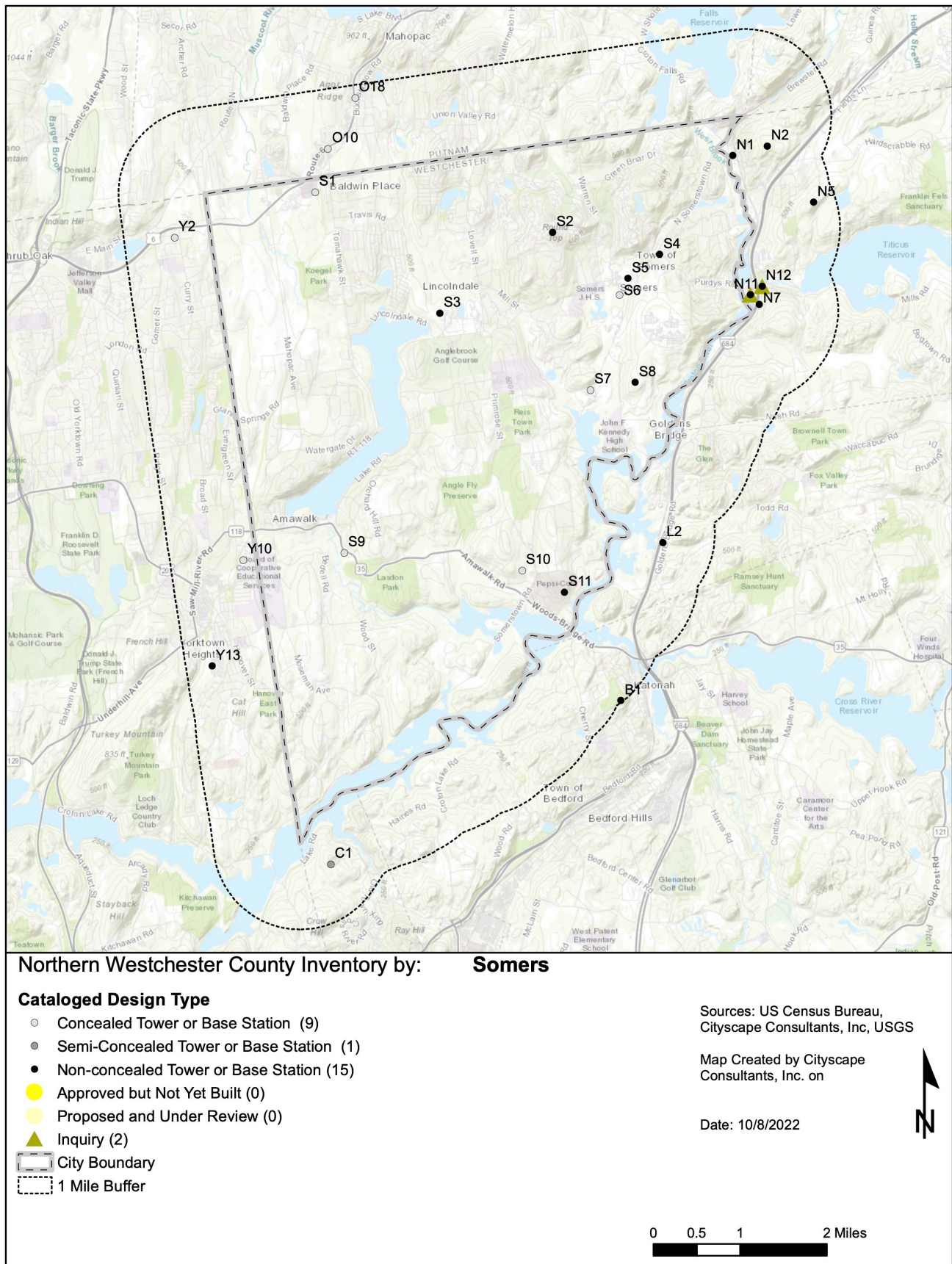


Figure S5: Map of Existing Inventory by Design Type

# PROPAGATION MAPPING AND SIGNAL STRENGTH

Propagation mapping is a tool used to simulate antenna signal strength. Signal strength is a term used to describe the level and operability of a wireless device. The stronger the signal between the elevated antenna and the wireless handset device the more likely the device and all the built-in features will work as expected. As a wireless device approaches the outer edge of the antenna's service area, the signal strength becomes more prone to degradation, particularly as usage in the area increases or environmental conditions worsen.

A reduced signal causes unsatisfactory service, results in slow download or upload speeds and can cause dropped calls. Other factors affecting signal strength are any natural or man-made obstructions such as location of buildings, type of building materials, vegetation, humidity or weather that comes between the antenna and devices. The use of devices indoors or outdoors is also a factor when determining signal strength. Consider this much like a light bulb in a lamp; the further away you are from the lamp, the dimmer the light becomes. Any obstructions in between you and the lamp dims or obscures the light, just like signal strength.

The following propagation map provided in *Figure S6* illustrates simulated predicted coverage from the existing and approved but not built personal wireless service facility (PWSF) sites for wireless service providers operating in the Town. The map is generated using mid-band frequency spectrum 1700-2400 MHz assuming maximum operating power from each of the towers or base stations. This simulated propagation considers a generic antenna model similar to those used by wireless service providers and assumes each provider is located at the highest mounting height on each facility represented.

The gradation of colors from yellow to blue represents the signal strength emanating from each personal wireless service facility. The geographic areas in yellow identify superior outdoor and indoor signal strength, green equates to areas with average in vehicle signal strength and shades of blue symbolize acceptable or poor outdoor signal strength. Areas with no shades show marginal, spotty or no signal. A quick reference of the shades and descriptions are as follows in *Table S2*.



SIGNAL STRENGTH COLOR	dBm	SIGNAL STRENGTH DESCRIPTION
Yellow	> -75	In Building
Green	-95	In Vehicle
Blue	-105	Outdoor
Gray or White		Marginal or No Service

Table S2: Signal Strength Description

This modeling assumption gives an estimation of the wireless coverages in the Town if each service provider was located on each facility. It is noted that not all service providers are on every tower or base station but the goal is to maximize the existing infrastructure already in place to accommodate the others.

As shown in *Figure S6*, most of the existing PWSF sites are adjacent major transportation roadways. Sites S6, S7 and S10 (shown below) are located parallel Highway 100 (Somerstown Road), Site S9 is on the south side of Highway 35 (Amawalk Road) and Site S1 is providing coverage to portions of Route 6. Sites S2 and S3 are providing coverage to land areas around those facilities and contributing as handoff facilities to the Sites S1, S6, S7 and S9.



Site S6

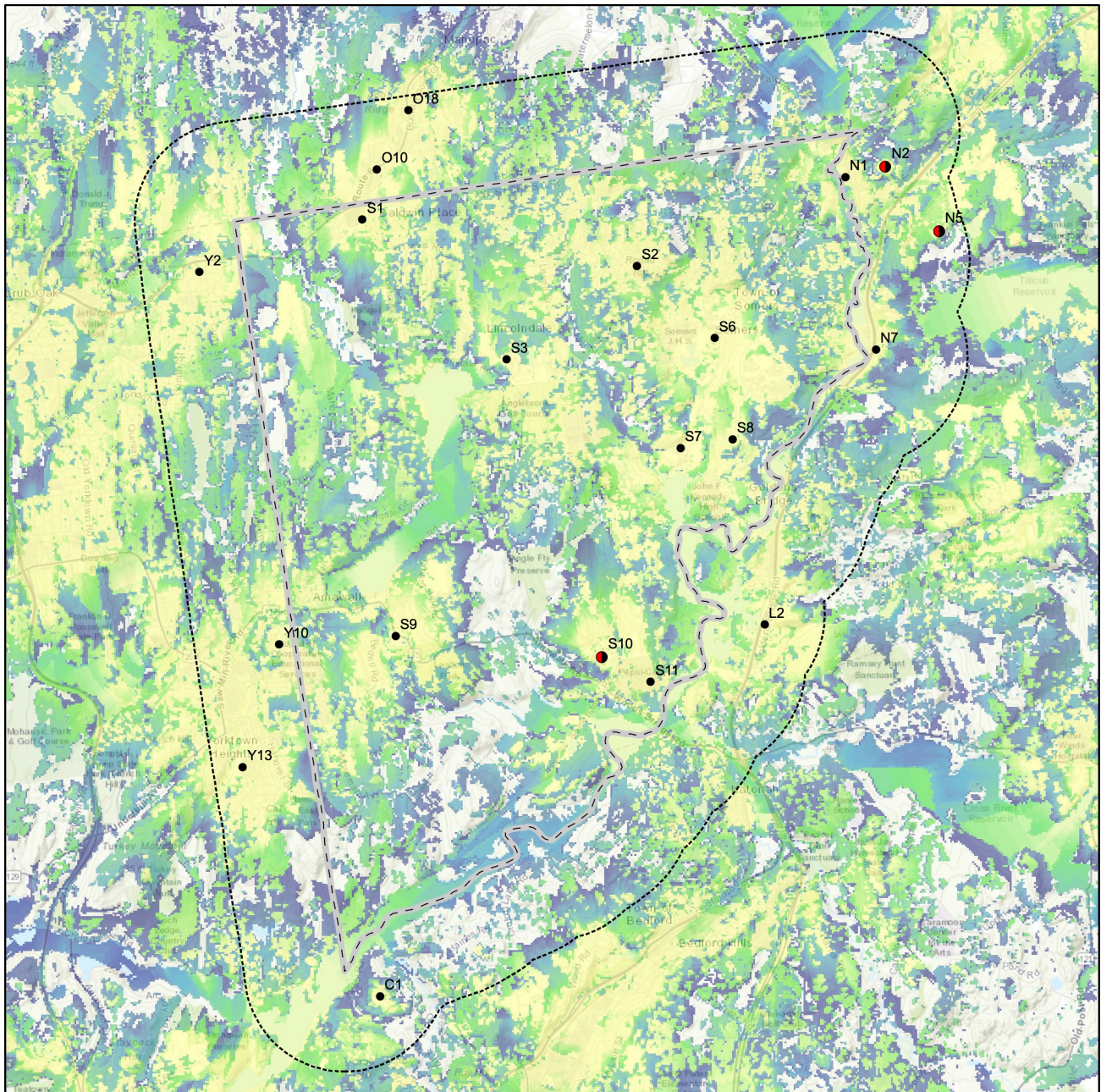


Site S7



Site S10





Northern Westchester County Inventory by: **Somers**

**Cataloged PWSF Antenna Type**

- Macrocell Facility (17)
- Small Wireless Facility (0)
- Public Safety (0)
- Macrocell Facility and Public Safety (3)
- Draft Green Field Options (0)
- Other (0)
- Approved but Not Yet Built (0)
- Proposed and Under Review (0)
- ▲ Inquiry (0)
- ▭ City Boundary
- ▭ 1 Mile Buffer

**Mid-band Frequency PWSF Sites**

Approximate Coverage  
 - Indoor (-75)  
 - In Vehicle (-95)  
 - Outdoor (-105)

Sources: US Census Bureau,  
Cityscape Consultants, Inc, USGS

Map Created by Cityscape  
Consultants, Inc. on

Date: 10/12/2022

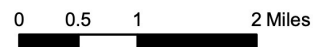


Figure S6: Simulated Coverage Map from PWSF Sites



# POPULATION DENSITY AND LAND CLASSIFICATION

Population density is a variable affecting wireless networks. Wireless service providers want to deploy as close to their subscriber base as possible which is why residential areas, employment centers, recreational facilities and along major highways/thoroughfares are ideal locations for infrastructure. Examining population density is a key component in determining where there is likely to be the greater demand of wireless networks.

*Figure S7* is a map of the Town's population density by US Census Block Group overlay with existing macro wireless facilities. The darkest shades of brown represent US Census Block Groups with over 3,000 people per square mile and are the highest population densities in the Town. The northern portion of Somers has the most people per square mile. These areas have the most potential wireless network consumers, while the southeast part of the Town is rural with 500 and fewer people per square mile the northern portion of Somers has the most people.

*Figure S8* is the Town's Land Classification map also with the existing and approved but not built wireless facilities as an overlay.

When comparing *Figure S6* (propagation map) to *Figure S7* (population density map) and *Figure S8* (land classification map) the notable wireless facility deployment pattern shows all but one existing facility (S2) is either parallel a major transportation corridor or within a commercial land use zone.



Site S1

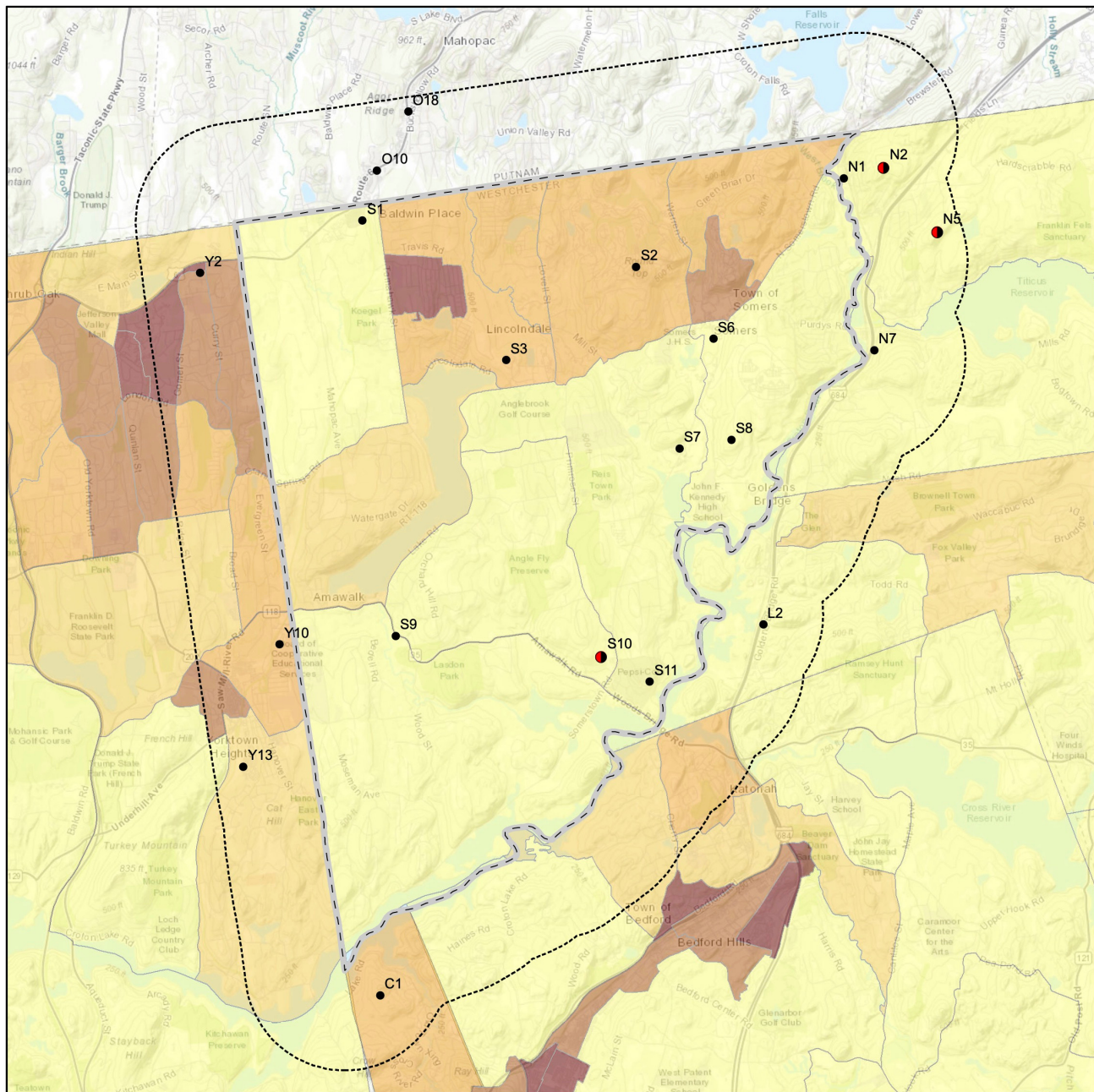


Site S2



Site S9





# Northern Westchester County Inventory by: **Somers**

## **Cataloged PWSF Antenna Type**

- Macrocell Facility (17)
- Small Wireless Facility (0)
- Public Safety (0)
- Macrocell Facility and Public Safety (3)
- Draft Green Field Options (0)
- Other (0)
- Approved but Not Yet Built (0)
- Proposed and Under Review (0)
- ▲ Inquiry (0)
- ▭ City Boundary
- ▭ 1 Mile Buffer

## **People Per Square Mile**

- 0 - 500
- 501 - 1000
- 1001 - 2000
- 2001 - 3000
- 3001 - 10000

Sources: US Census Bureau,  
Cityscape Consultants, Inc, USGS

Map Created by Cityscape  
Consultants, Inc. on

Date: 10/12/2022

0 0.5 1 2 Miles



Figure S7: Population Density with PWSF Overlay



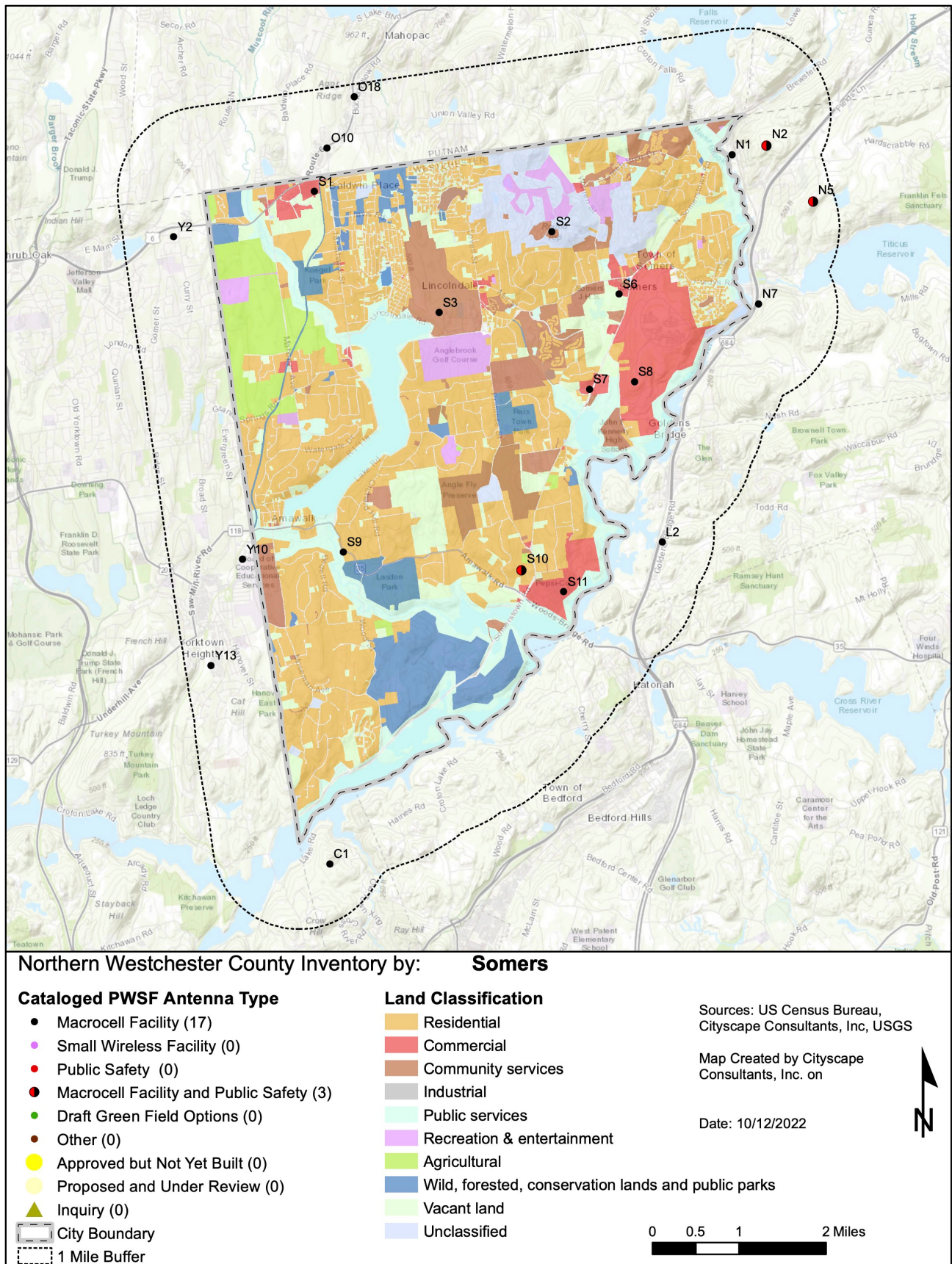


Figure S8: Land Classification Map

# WIRELESS NETWORK DENSIFICATION

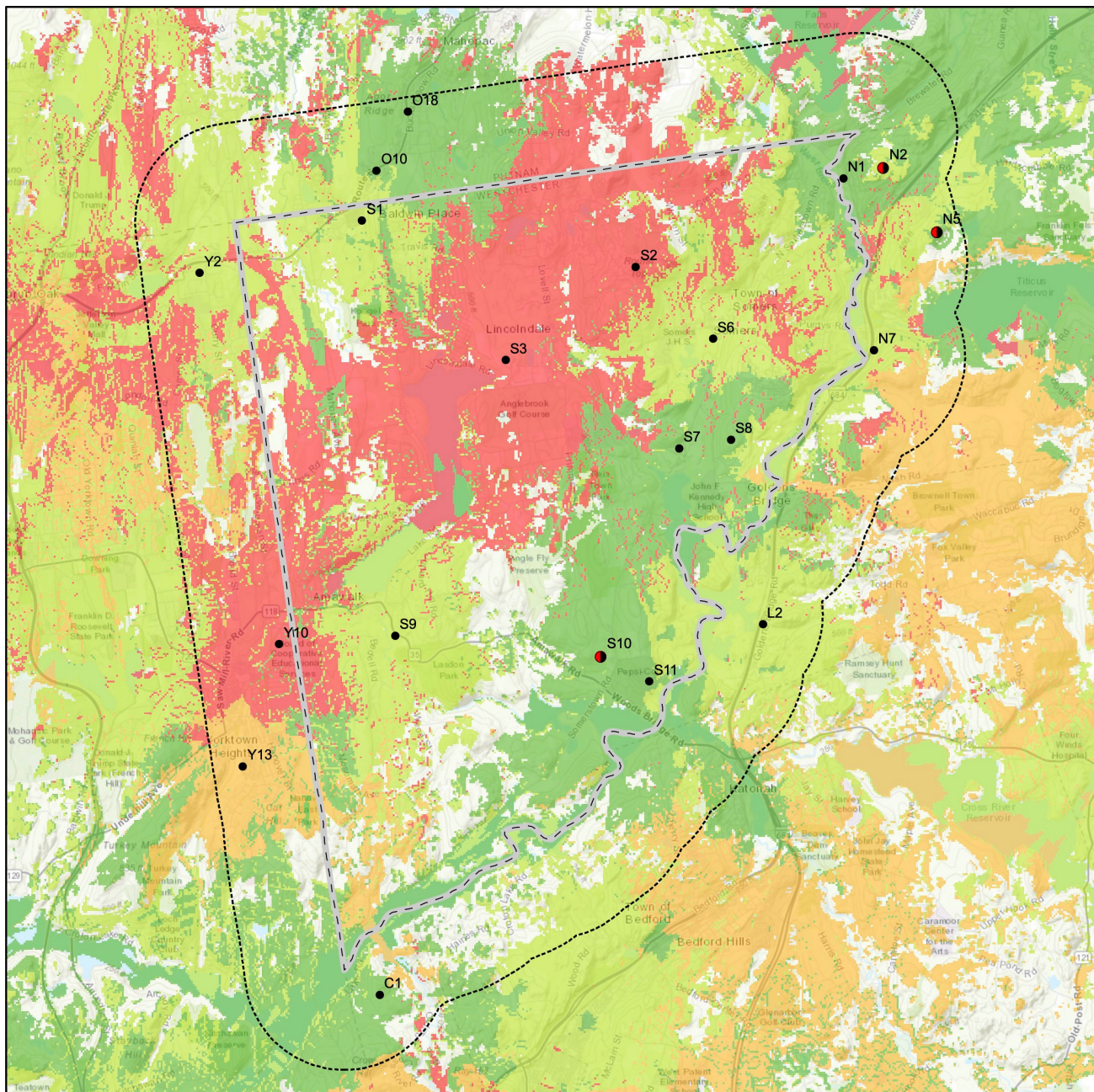
Modern and advancing technologies continue to transform how the wireless industry builds out their networks. Each wireless service provider is in a different stage of fifth generation (5G) deployment and use different technologies and spectrum to compete in the 5G race. In the evolution of wireless communications, some smartphones still use 4G technologies but they are rapidly transitioning to 5G wireless networks. Both platforms incorporate broadband technology enabling all the Smartphone applications like global positioning services (i.e. Google Maps, Waze Navigation); public safety, medical and banking services; weather, educational, music, games, on-line reading and countless other on demand services. These applications require significant amounts of information to be sent and received within the same radio signal boundary. Network densification is often needed within the coverage area to improve network capacity.

Network capacity is the amount of wireless traffic that a service provider's network can handle at any given time within a specific location. Capacity takes into account the amount of bandwidth being used simultaneously by way of voice calls, and data usage. In order to estimate network capacity, consideration and analysis of the distinct characteristics of the community is studied and portrayed.

Network densification means wireless service providers need to add more capacity to their networks to handle all the usage and network speeds subscribers expect. There are several ways to add capacity to a network. One is providers buying more spectrum, two is making spectrum more efficient and third adding more wireless facilities to areas in need. Commercial wireless providers are pursuing all three methodologies to prepare for and meet network speeds and improvements.

The following *Figure S9* theorizes geographic areas needing network coverage and capacity densification over the next ten years. Red and orange shaded areas are vicinities where the existing number of towers and base stations are proportionally insufficient to the number of existing households. Yellow and green shaded areas do not need immediate densification, provided existing PWSFs inside these colorings can accommodate collocations for other service providers. If collocation options are not available at the existing sites in the yellow and green shaded areas, then a new PWSF will be necessary to accommodate additional antennas. Any area void of yellow, green, orange or red colorings represents places in the Town with immediate need of personal wireless service facilities. Although there may be good coverage around Sites S2 and S3, this map indicates that due to the potential for high usage in these areas, there is network capacity concerns. The need of more bandwidth means the need for more facilities around these areas.





# Northern Westchester County Inventory by: **Somers**

## **Cataloged PWSF Antenna Type**

- Macrocell Facility (17)
- Small Wireless Facility (0)
- Public Safety (0)
- Macrocell Facility and Public Safety (3)
- Draft Green Field Options (0)
- Other (0)
- Approved but Not Yet Built (0)
- Proposed and Under Review (0)
- ▲ Inquiry (0)

- City Boundary
- 1 Mile Buffer

## **Number Households**

- 1 - 500 (Acceptable Capacity)
- 501 - 1000
- 1001 - 1500
- 1501 - 3450 (Poor Capacity)

Sources: US Census Bureau, Cityscape Consultants, Inc, USGS

Map Created by Cityscape Consultants, Inc. on

Date: 10/12/2022



0 0.5 1 2 Miles

Figure S9: Heat Map Approximating Network Capacity Areas of Concern



# POTENTIAL SOLUTIONS

Long Term Evolution (LTE) is a 4G wireless communication standard used by commercial wireless service providers offering high-volume data and faster internet speeds with minimal delay or latency. Transitioning to LTE modeling requires a slight change in the propagation model. Residential indoor service tends to require a minimum of -95 dBm RSRP (LTE Reference Signal Received Power) which contains a 5 dB margin added to ensure reliable indoor services. The typical minimum service level for in vehicle is -90 to -105 dBm, which makes for reliable text, call and data sessions, and the minimum usable outdoor LTE coverage level is -115 dBm.

The following figures are representations of simulated LTE coverage assuming all service providers are on each facility since this is the best possible collocation scenario. Each of these figures uses the following RSRP signal level shown in *Table S3*.

SIGNAL STRENGTH COLOR	dBm	SIGNAL STRENGTH DESCRIPTION
Yellow	> -90	In Building
Green	-90 to -105	In Vehicle
Blue	-105 to -115	Outdoor

Table S3: LTE Signal Strength Description



Site S3



Site S8



Site S11



## SOMERS OVERVIEW

The following *Figure S10* provides a closer look at the LTE coverage predictions from all the existing personal wireless facilities in the Somers Study Area. The areas outlined in blue illustrate very poor to non-existent wireless coverage and the areas in greatest need of wireless infrastructure.

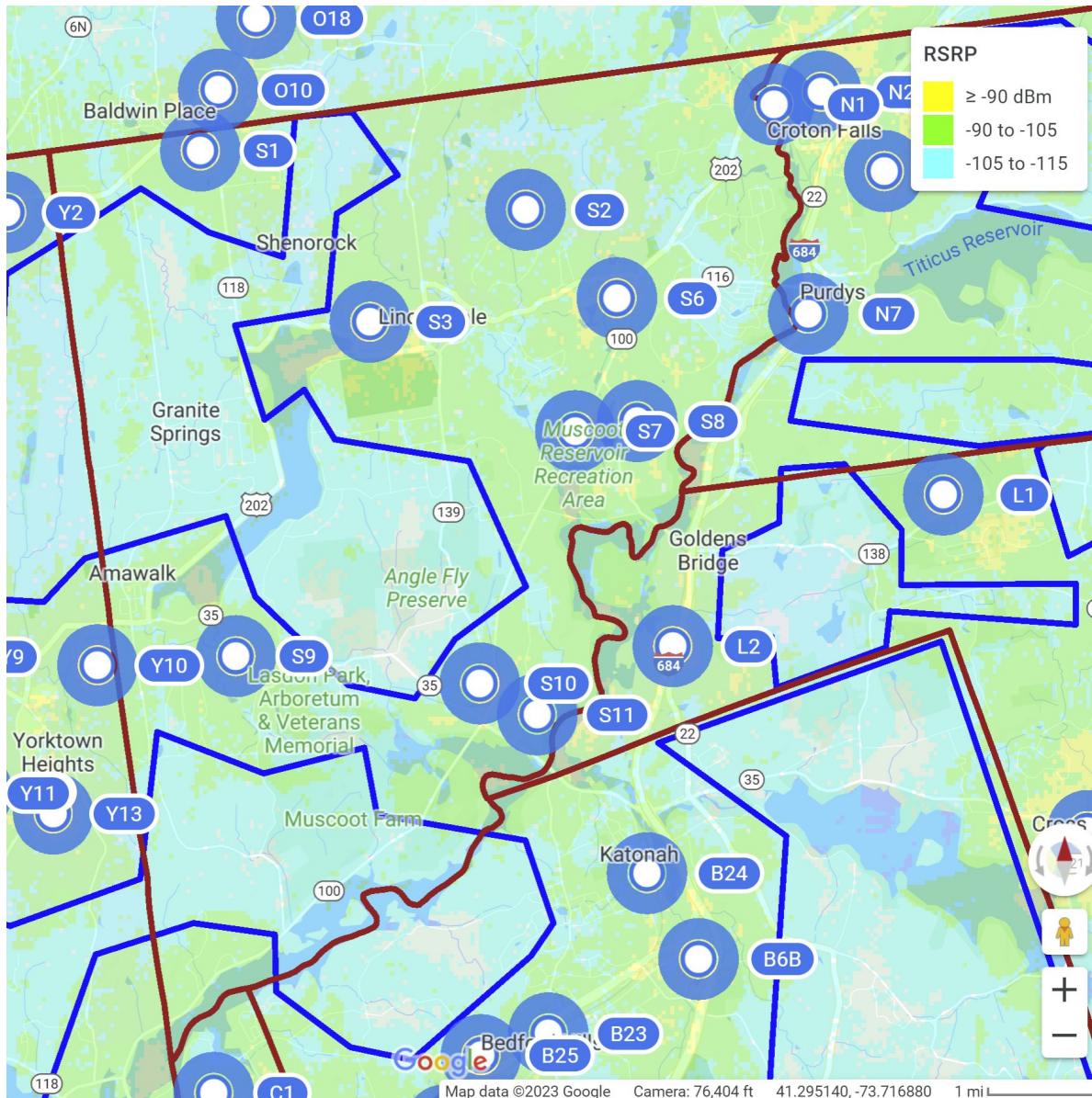


Figure S10: LTE Coverage Predictions Existing or Approved PWSF Sites

The following maps provide an in depth look at specific existing underserved areas and offers potential solutions to fill-in these gaps anticipated over the next ten years for 5G and beyond. Suggested new macro cell towers or base stations are represented as new tower (NT) followed by a number. Small wireless facilities may provide a feasible solution closer to residential areas or those areas with viewshed concerns. Small wireless facilities on New York State Electric and Gas (NYSEG) poles or new poles in the ROW are identified as NP followed by a number.

In order to improve wireless coverage in identified areas of Somers it is anticipated to take six macro cell facilities, either towers or base stations at approximately 100' in height in the vicinities shown on the maps. Also suggested are approximately 16 small cell wireless facilities on 50' utility poles.

Some of the maps have overlapping sites; for example, potential site S-NT1 appears on two of the following maps, in these instances, a proposed site will only be listed in the narrative for the first map and not in subsequent map description narratives.





## NORTHERN SOMERS

The northern portion of the Town is represented in *Figure S11* and shows predicted coverages utilizing existing Sites S1, S2, S3, S6, S7, S8, S9, S10 and S11 and the following six suggested 100' towers in the areas around S-NT1, S-NT2, S-NT3, S-NT5, and S-NT6.

Site S-NT1 and S-NT2 are recommended in the northwest corner of the Town to improve capacity in the more densely populated area of Granite Springs. Potential Site S-NT3 is necessary to provide hand off between existing macro cells Sites S3 and S9 and the suggested Sites S-NT1 and S-NT2.

A macro cell in the vicinity of S-NT5 would significantly improve wireless coverages along Highway 139/Primrose Street, a major north and south connector between Lincolndale and Highway 35/Amawalk Road. A new macro cell is needed around suggested Site S-NT6 to close coverage gaps north of existing Site S2 and to improve capacity in the most densely populated area of Somers.

Additionally, 11 small wireless facilities are suggested on existing NYSEG utility poles or new 50' utility poles in the same vicinity as suggested Sites S-NP2, S-NP3, S-NP4, S-NP5, S-NP6, S-NP7, S-NP8, S-NP9, S-NP10, S-NP11, S-NP16. Adding small wireless facilities on existing Sites S4 and S5 (lighter shaded symbology in Figure 11) would also improve network functionality for the nearby office and commercial area.

Small wireless facility Sites S-NP2, S-NP3, S-NP4 and S-NP5 are suggested in this linear pattern to improve capacity in the highly densified area and to improve signal hand off between existing macro cell Sites S1 and S2. Site S-NP16 is recommended in the Granite Springs area to help with network densification. New small wireless facility Sites S-NP7 and S-NP8 are recommended along Orchard Hill Road. Site S-NP10 is suggested along Primrose Street, Site S-NP9 is shown for consideration along Amawalk Road and potential Site S-NP11 is shown along Pine Bridge Road to improve wireless coverage along that roadway.

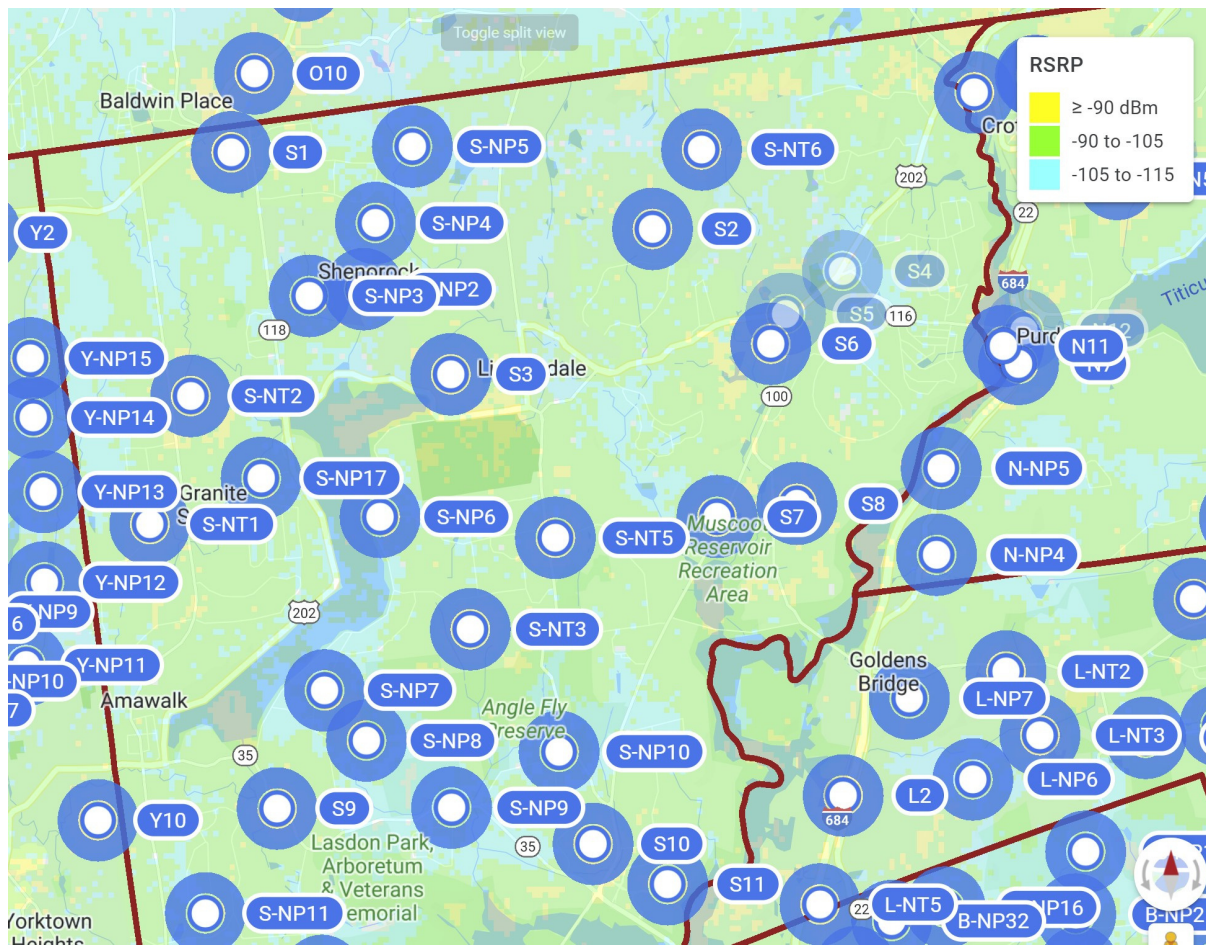


Figure S11: Predicted LTE Coverage Northern Somers



## SOUTHERN SOMERS

*Figure S12* addresses gaps in coverages in the southern portion of Somers that could be addressed by adding around one new 100' macrocell, Site S-NT4 and six small wireless facilities at 50 foot in elevation on existing NYSEG poles or new poles are needed in the same vicinity Sites S-NP1, S-NP11, S-NP12, S-NP14, S-NP14, S-NP15.

If installed the combination of all seven of these suggested wireless facilities would bring coverage to this area of the Town which presently has gaps in network coverage.

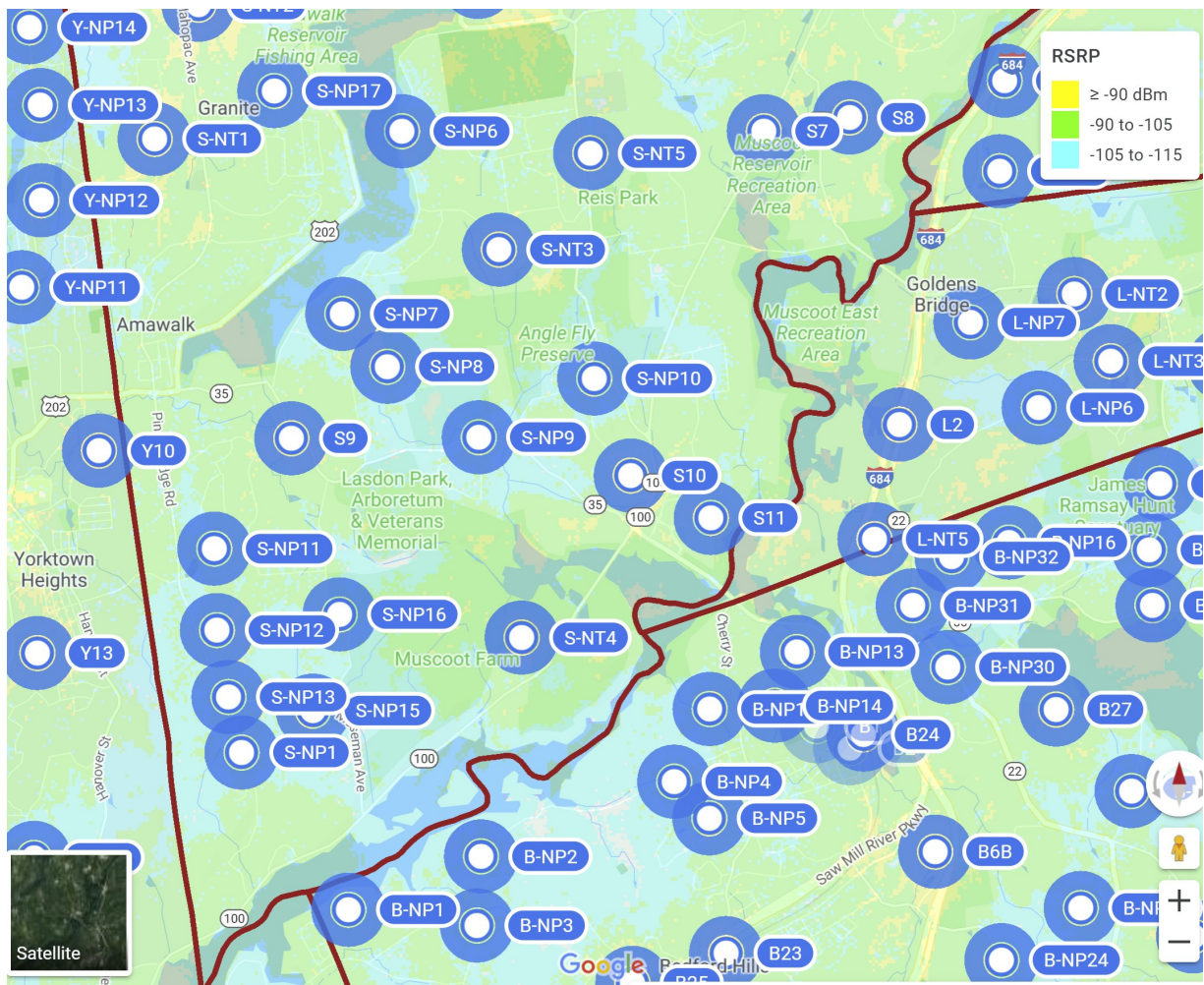


Figure S12: Predicted LTE Coverage Southern Somers

The following *Table S4* provides a summary of all the suggested macro cell fill in sites for the Town.

MACRO CELL SUGGESTED SITES	
SITE NAME	FACILITY HEIGHT (FEET)
S-NT1	100'
S-NT2	100'
S-NT3	100'
S-NT4	100'
S-NT5	100'
S-NT6	100'

Table S4: Suggested Macro Fill-In Sites

The following *Table S5* provides a summary of all the suggested small wireless mounted on existing NYSEG utility pole sites or on new poles in the same vicinity.

SMALL CELL SUGGESTED SITES			
SITE NAME	LATITUDE	LONGITUDE	HEIGHT
S-NP1	41.25493	-73.7559	50'
S-NP2	41.33015	-73.7393	50'
S-NP3	41.32953	-73.7461	50'
S-NP4	41.33624	-73.7378	50'
S-NP5	41.34327	-73.7332	50'
S-NP6	41.30927	-73.7372	50'
S-NP7	41.29330	-73.7442	50'
S-NP8	41.28867	-73.7389	50'
S-NP9	41.28251	-73.7283	50'
S-NP10	41.28764	-73.7149	50'
S-NP11	41.27277	-73.7590	50'
S-NP12	41.26564	-73.7587	50'
S-NP13	41.25979	-73.7574	50'
S-NP14	41.25860	-73.7476	50'
S-NP15	41.26701	-73.7445	50'
S-NP16	41.31278	-73.7521	50'

Table S5: Suggested Small Wireless Fill-In Sites



# COMMUNITY SURVEY AND ZONING

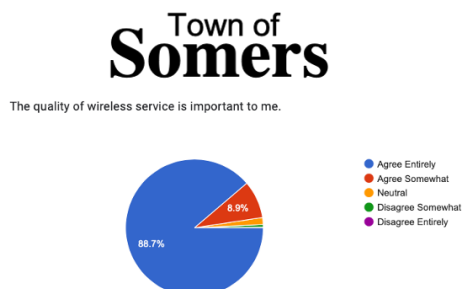
In order to facilitate effective regulations that takes community input into consideration, the Town promoted a Wireless Telecommunications Infrastructure Survey (Survey) to engage the townspeople. The main objective was to solicit information regarding thoughts, concerns and preferences as it relates to wireless infrastructure facilities.

The Survey solicited opinions and experiences regarding the importance of the current state of wireless connectivity and aesthetics of the infrastructure in the Town. The Somers survey opened on September 8, 2021 and closed on October 25, 2021 and during that time 671 people participated in the survey. The responses are very similar to those collected for the larger study area.

Those who participated in poll indicate that wireless connectivity and quality of service is very important but unlike most of the other communities in the study area, respondents in Somers, Mount Kisco and Yorktown indicate coverage at home, work and while traveling around the Town is generally excellent or acceptable. They support the use of public property for future sites and prefer concealed base stations, towers, and small wireless facilities over non-concealed and semi-concealed infrastructure.

The most notable observations from the survey and compared to the entire NWC study area are shown in [Table S5](#) with the entire collection of responses and comments provided in [Appendix H2](#).

Overall, additional macro and small wireless facilities are needed throughout the Town to provide initial coverages in areas where no service is currently available and in other areas where the ratio of subscribers exceeds the number of wireless facilities. Based on survey responses, the community supports and desires additional wireless infrastructure to improve the wireless network.



RESPONSES	Somers	NWC
<b>PARTICIPANTS</b>	671	4002
<b>Average Number of Devices</b>	6	6
<b>Use of Devices</b>		
○ Personal Recreation/Leisure	78.40%	85.84%
○ Employment Related	52.20%	63.33%
<b>Wireless Coverage at Residence</b>		
○ Excellent or Acceptable	56.00%	43.03%
○ Poor or Inconsistent	42.90%	55.91%
<b>Wireless Coverage at Work</b>		
○ Excellent or Acceptable	44.00%	35.37%
○ Poor or Inconsistent	23.40%	32.60%
<b>Wireless Coverage Traveling Around Town</b>		
○ Excellent or Acceptable	51.80%	37.18%
○ Poor or Inconsistent	46.30%	61.88%
<b>Would Rely More on Device if Network was Better</b>		
○ Entirely Agree	56.30%	61.90%
<b>Quality of Wireless Service Is Important to Me</b>		
○ Entirely Agree	88.70%	87.64%
<b>What is Most Important to You</b>		
○ Excellent Connectivity	59.90%	56.24%
○ Good Connectivity and Minimal Visual Impact	36.40%	38.71%
<b>Prefer Taller Tower Supporting Multiple Collocations</b>	52.20%	44.64%
<b>Non-Concealed Tower Preference - Monopole</b>	67.50%	62.09%
<b>Concealed Tower Preference - Flag Pole</b>	72.10%	70.11%
<b>Rooftop Preference - Concealed</b>	76.70%	78.65%
<b>Small Wireless Facility Preference - Concealed</b>	87.50%	89.99%
<b>Locational Preference in Town - Anywhere</b>	60.70%	60.88%
<b>Support Use of Public Property for Revenue and Aesthetics - Yes</b>	59.80%	52.18%

Table S5: Summary of Notable Survey Responses

The Town's Code Article XXIIA. Wireless Telecommunications Facilities promotes collocation as a first priority for new infrastructure, use of public property and designs that have the least-adverse visual effect on the environment and its character of the Town.

The Definitions section should be revised to add standards for small and macro wireless facilities that align with the Code of Federal Regulation. Attention should be given to existing setback and separation requirements to avoid the appearance of potential barriers to entry.





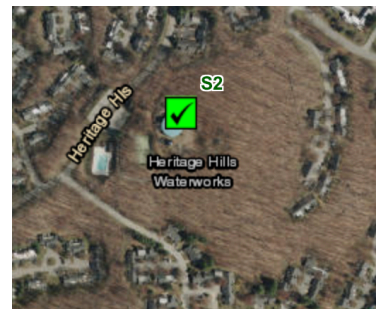
## APPENDIX H1

# WIRELESS INFRASTRUCTURE INVENTORY

Site S1		80 Route 6	Somers
STRUCTURE TYPE:	Tower		
FACILITY TYPE:	Unipole		
ANTENNA TYPE:	Macro Cell		
DESIGN TYPE:	Concealed		
FACILITY OWNER/ID:	Crown Castle International - 825418		
FACILITY SITE NAME:	LMU Somers Com 80 Route 6 - Somers Commons		
SERVICE PROVIDERS:	AT&T, T-Mobile, Verizon		
FCC ASR:			
HEIGHT:	119'		
LOCATION:	Private Property		
LATITUDE/LONGITUDE:	41.3427439 N, -73.755811 W		
PARCEL ID:	4.20-1-11		
ZONING:	CS Community Shopping District		
NOTES:			



Site S2		250 West Hill Drive	Somers
STRUCTURE TYPE:	Tower		
FACILITY TYPE:	Monopole		
ANTENNA TYPE:	Macro Cell		
DESIGN TYPE:	Non-concealed		
FACILITY OWNER/ID:	Crown Castle International - 843200		
FACILITY SITE NAME:	Somers - Heritage Hills Water Tower		
SERVICE PROVIDERS:	AT&T, Verizon		
FCC ASR:			
HEIGHT:	87'		
LOCATION:	Public Property		
LATITUDE/LONGITUDE:	41.335693 N, -73.703191 W		
PARCEL ID:	17.05-2-2		
ZONING:	DRD Designated Residential Development		
NOTES:			



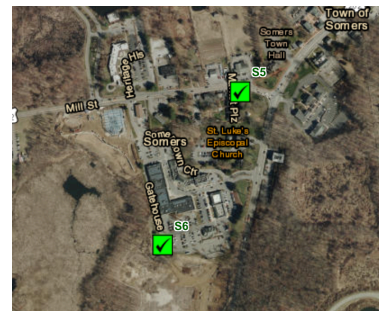


Site S3		Somers
STRUCTURE TYPE:	Tower	 
FACILITY TYPE:	Monopole	
ANTENNA TYPE:	Macro Cell	
DESIGN TYPE:	Non-Concealed	
FACILITY OWNER/ID:	Crown Castle International - 806904	
FACILITY SITE NAME:	NY Whitehall Corners - Lincoln Hall	
SERVICE PROVIDERS:	AT&T, Sprint, T-Mobile, Verizon	
FCC ASR:		
HEIGHT:	100'	
LOCATION:	Public Property	
LATITUDE/LONGITUDE:	41.322322 N, -73.728388 W	
PARCEL ID:	16.15-1-1.1	
ZONING:	R120	
NOTES:		

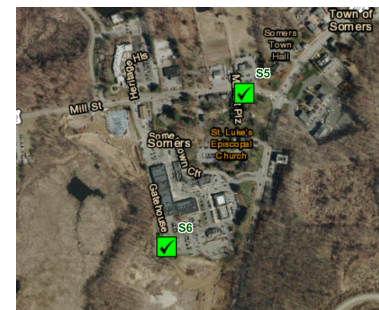
Site S4		Somers
STRUCTURE TYPE:	Base Station	 
FACILITY TYPE:	Utility Pole	
ANTENNA TYPE:	Other	
DESIGN TYPE:	Non-Concealed	
FACILITY OWNER/ID:		
FACILITY SITE NAME:		
SERVICE PROVIDERS:	Unknown	
FCC ASR:		
HEIGHT:	35'	
LOCATION:	Inside Right-of-Way	
LATITUDE/LONGITUDE:	41.331824 N, -73.728388 W	
PARCEL ID:	17.11-2-18	
ZONING:	BHP - Business Historic Preservation District	
NOTES:		

**Site S5****Somers**

<b>STRUCTURE TYPE:</b>	Base Station
<b>FACILITY TYPE:</b>	Utility Pole
<b>ANTENNA TYPE:</b>	Other
<b>DESIGN TYPE:</b>	Non-Concealed
<b>FACILITY OWNER/ID:</b>	
<b>FACILITY SITE NAME:</b>	
<b>SERVICE PROVIDERS:</b>	Unknown
<b>FCC ASR:</b>	
<b>HEIGHT:</b>	35'
<b>LOCATION:</b>	Inside Right-of-Way
<b>LATITUDE/LONGITUDE:</b>	41.327873 N, -73.686572 W
<b>PARCEL ID:</b>	ROW
<b>ZONING:</b>	BHP - Business Historic Preservation Distric
<b>NOTES:</b>	

**Site S6****325 Route 202****Somers**

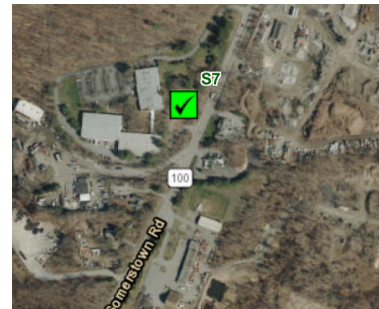
<b>STRUCTURE TYPE:</b>	Tower
<b>FACILITY TYPE:</b>	Unipole
<b>ANTENNA TYPE:</b>	Macro Cell
<b>DESIGN TYPE:</b>	Concealed
<b>FACILITY OWNER/ID:</b>	Crown Castle International - 827082
<b>FACILITY SITE NAME:</b>	Route 202 and 100 Somers - Towne Center
<b>SERVICE PROVIDERS:</b>	T-Mobile
<b>FCC ASR:</b>	
<b>HEIGHT:</b>	103'
<b>LOCATION:</b>	Private Property
<b>LATITUDE/LONGITUDE:</b>	41.325131 N, -73.688419 W
<b>PARCEL ID:</b>	17.15-1-13
<b>ZONING:</b>	NS Neighborhood Shopping District
<b>NOTES:</b>	



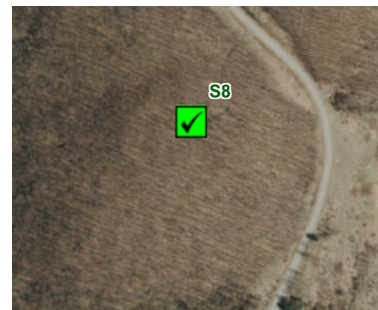


**Site S7****245 Route 100****Somers**

<b>STRUCTURE TYPE:</b>	Tower
<b>FACILITY TYPE:</b>	Unipole
<b>ANTENNA TYPE:</b>	Macro Cell
<b>DESIGN TYPE:</b>	Concealed
<b>FACILITY OWNER/ID:</b>	Crown Castle International - 857113
<b>FACILITY SITE NAME:</b>	Somers-Plumbrook Shade - SAMAJ Investors
<b>SERVICE PROVIDERS:</b>	AT&T
<b>FCC ASR:</b>	
<b>HEIGHT:</b>	100'
<b>LOCATION:</b>	Private Property
<b>LATITUDE/LONGITUDE:</b>	41.309271 N, -73.695143 W
<b>PARCEL ID:</b>	28.10-1-6.1
<b>ZONING:</b>	OLI Office Light Industry District; Groundwater Protection Overlay District
<b>NOTES:</b>	

**Site S8****84 Route 100****Somers**

<b>STRUCTURE TYPE:</b>	Tower
<b>FACILITY TYPE:</b>	Monopole
<b>ANTENNA TYPE:</b>	Macro Cell
<b>DESIGN TYPE:</b>	Non-Concealed
<b>FACILITY OWNER/ID:</b>	Crown Castle International - 806949
<b>FACILITY SITE NAME:</b>	NY Somers 958150 - IBM
<b>SERVICE PROVIDERS:</b>	Sprint, T-Mobile, Verizon
<b>FCC ASR:</b>	
<b>HEIGHT:</b>	104'
<b>LOCATION:</b>	Private Property
<b>LATITUDE/LONGITUDE:</b>	41.310467 N, -73.685155 W
<b>PARCEL ID:</b>	17.19-1-1
<b>ZONING:</b>	OB-100 Office Business 100
<b>NOTES:</b>	



Site S9		2580 Route 35	Somers
STRUCTURE TYPE:	Tower		
FACILITY TYPE:	Monopine		
ANTENNA TYPE:	Macro Cell		
DESIGN TYPE:	Concealed		
FACILITY OWNER/ID:	InSite Towers - NY575		
FACILITY SITE NAME:	Amawalk - Santaroni		
SERVICE PROVIDERS:	AT&T, T-Mobile, Verizon		
FCC ASR:			
HEIGHT:	130'		
LOCATION:	Private Property		
LATITUDE/LONGITUDE:	41.282420 N, -73.750081 W		
PARCEL ID:	37.13-2-3		
ZONING:	R120		
NOTES:			



Site S10		121 Route 100	Somers
STRUCTURE TYPE:	Tower		
FACILITY TYPE:	Monopine		
ANTENNA TYPE:	Macro and Public Safety		
DESIGN TYPE:	Concealed		
FACILITY OWNER/ID:	InSite Towers, LLC- NY576		
FACILITY SITE NAME:	Somers - Amato		
SERVICE PROVIDERS:	AT&T, Sprint, Verizon		
FCC ASR:	1278926		
HEIGHT:	140'		
LOCATION:	Private Property		
LATITUDE/LONGITUDE:	41.2791607 N, -73.710618 W		
PARCEL ID:	38.17-1-5		
ZONING:	R80		
NOTES:	Need to have providers conceal antennas better.		





**Site S11****1 Pepsi Way****Somers**

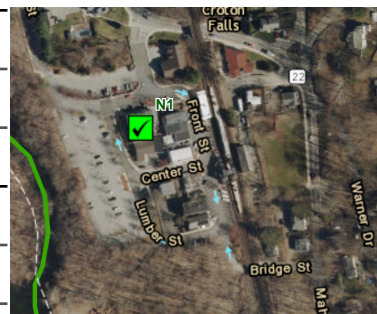
<b>STRUCTURE TYPE:</b>	Base Station
<b>FACILITY TYPE:</b>	Roof
<b>ANTENNA TYPE:</b>	Macro Cell
<b>DESIGN TYPE:</b>	Non-Concealed
<b>FACILITY OWNER/ID:</b>	Pepsi Headquarters - 339472
<b>FACILITY SITE NAME:</b>	Pepsi
<b>SERVICE PROVIDERS:</b>	T-Mobile, Verizon
<b>FCC ASR:</b>	
<b>HEIGHT:</b>	65'
<b>LOCATION:</b>	Private Property
<b>LATITUDE/LONGITUDE:</b>	41.275456 N, -73.701304 W
<b>PARCEL ID:</b>	38.18-1-1
<b>ZONING:</b>	CRO Corporate Research/Office District
<b>NOTES:</b>	

**Site B1****Bedford**

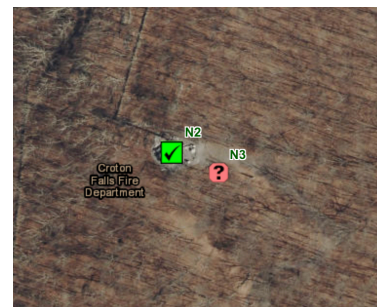
<b>STRUCTURE TYPE:</b>	Tower
<b>FACILITY TYPE:</b>	Lattice
<b>ANTENNA TYPE:</b>	Public Safety
<b>DESIGN TYPE:</b>	Non-Concealed
<b>FACILITY OWNER/ID:</b>	Katonah Fire District
<b>FACILITY SITE NAME:</b>	Wildwood Tower Site - Katonah Memorial Park
<b>SERVICE PROVIDERS:</b>	
<b>FCC ASR:</b>	
<b>HEIGHT:</b>	50'
<b>LOCATION:</b>	Public Property
<b>LATITUDE/LONGITUDE:</b>	41.257236 N, -73.68902 W
<b>PARCEL ID:</b>	04901500010010000000
<b>ZONING:</b>	
<b>NOTES:</b>	Lattice tower painted green and equipment is part of the existing emergency radio service network.



Site N1		4 West Cross Street	North Salem
STRUCTURE TYPE:	Base Station		
FACILITY TYPE:	Roof		
ANTENNA TYPE:	Macro Cell		
DESIGN TYPE:	Non-Concealed		
FACILITY OWNER/ID:	Sprint/Nextel - NY54XC542		
FACILITY SITE NAME:	Fomaby		
SERVICE PROVIDERS:	Sprint		
FCC ASR:			
HEIGHT:	40'		
LOCATION:	Private Property		
LATITUDE/LONGITUDE:	41.348256 N, -73.663007 W		
PARCEL ID:	1.1-1717-5		
ZONING:	GB - General Business		
NOTES:			



Site N2		40 Sun Valley Drive	North Salem
STRUCTURE TYPE:	Tower		
FACILITY TYPE:	Monopole		
ANTENNA TYPE:	Macro and Public Safety		
DESIGN TYPE:	Non-Concealed		
FACILITY OWNER/ID:	Crown Castle International - 806897		
FACILITY SITE NAME:	Sun Valley Drive - CFFD		
SERVICE PROVIDERS:	AT&T, T-Mobile, Verizon, MTA		
FCC ASR:			
HEIGHT:	112'		
LOCATION:	Private Property		
LATITUDE/LONGITUDE:	41.349766 N, -73.655375 W		
PARCEL ID:	1.-1734-68		
ZONING:	R-1 Medium Density Residential		
NOTES:			



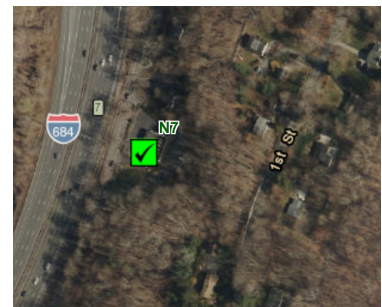


**Site N5****73 Cosby Road****North Salem**

<b>STRUCTURE TYPE:</b>	Tower
<b>FACILITY TYPE:</b>	Guyed
<b>ANTENNA TYPE:</b>	Macro and Public Safety
<b>DESIGN TYPE:</b>	Non-Concealed
<b>FACILITY OWNER/ID:</b>	American Tower Corporation - 277416
<b>FACILITY SITE NAME:</b>	Gjushi NY
<b>SERVICE PROVIDERS:</b>	AT&T, T-Mobile, Verizon, NSVAC
<b>FCC ASR:</b>	
<b>HEIGHT:</b>	155'
<b>LOCATION:</b>	Private Property
<b>LATITUDE/LONGITUDE:</b>	41.340290 N, -73.645171 W
<b>PARCEL ID:</b>	11.-1689-77
<b>ZONING:</b>	R-2 Low Density Residential
<b>NOTES:</b>	

**Site N7****509 Route 22****North Salem**

<b>STRUCTURE TYPE:</b>	Base Station
<b>FACILITY TYPE:</b>	Roof
<b>ANTENNA TYPE:</b>	Macro Cell
<b>DESIGN TYPE:</b>	Non-Concealed
<b>FACILITY OWNER/ID:</b>	Sprint Spectrum LP - NY54XC593
<b>FACILITY SITE NAME:</b>	Carrozza and First Prudys Building, LLC
<b>SERVICE PROVIDERS:</b>	Sprint
<b>FCC ASR:</b>	
<b>HEIGHT:</b>	33'
<b>LOCATION:</b>	Private Property
<b>LATITUDE/LONGITUDE:</b>	41.323280 N, -73.657476 W
<b>PARCEL ID:</b>	28.-1679-20
<b>ZONING:</b>	PO Professional Office District
<b>NOTES:</b>	



## Site N11

North Salem

STRUCTURE TYPE:	Tower
FACILITY TYPE:	Lattice
ANTENNA TYPE:	Macro Cell
DESIGN TYPE:	Non-Concealed
FACILITY OWNER/ID:	MTA
FACILITY SITE NAME:	
SERVICE PROVIDERS:	
FCC ASR:	
HEIGHT:	0'
LOCATION:	Inside Right-of-Way
LATITUDE/LONGITUDE:	41.324923 N, -73.659370 W
PARCEL ID:	
ZONING:	
NOTES:	Inquiry



## Site N12

North Salem

STRUCTURE TYPE:	Tower
FACILITY TYPE:	Monopole
ANTENNA TYPE:	Macro Cell
DESIGN TYPE:	Non-Concealed
FACILITY OWNER/ID:	Crown Castle International
FACILITY SITE NAME:	
SERVICE PROVIDERS:	
FCC ASR:	
HEIGHT:	0'
LOCATION:	Private Property
LATITUDE/LONGITUDE:	41.326354 N, -73.656789 W
PARCEL ID:	
ZONING:	
NOTES:	Inquiry

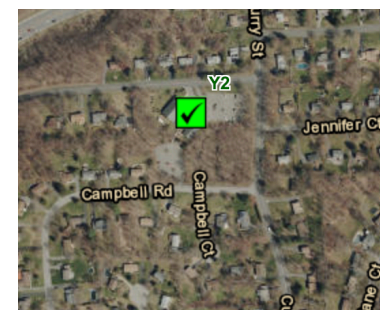




Site L2		204 Rt 22	Lewisboro
STRUCTURE TYPE:	Tower		
FACILITY TYPE:	Monopole		
ANTENNA TYPE:	Macro Cell		
DESIGN TYPE:	Non-Concealed		
FACILITY OWNER/ID:	Crown Castle International, 805003		
FACILITY SITE NAME:	Lewisboro - Goldens Bridge		
SERVICE PROVIDERS:	AT&T, MTA, Sprint, T-Mobile, Verizon		
FCC ASR:			
HEIGHT:	150'		
LOCATION:	Inside Right-of-Way		
LATITUDE/LONGITUDE:	41.283584 N, -73.679342 W		
PARCEL ID:			
ZONING:	R-4A		
NOTES:	NYS State		

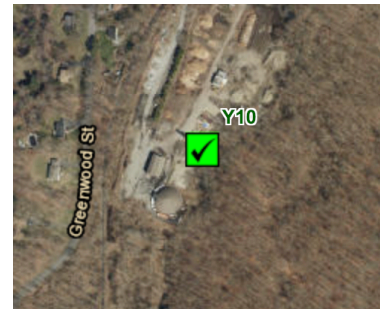


Site Y2		3830 Gomer Street	Yorktown
STRUCTURE TYPE:	Base Station		
FACILITY TYPE:	Steeple		
ANTENNA TYPE:	Macro Cell		
DESIGN TYPE:	Concealed		
FACILITY OWNER/ID:	Verizon		
FACILITY SITE NAME:			
SERVICE PROVIDERS:	Verizon		
FCC ASR:			
HEIGHT:	45'		
LOCATION:	Private Property		
LATITUDE/LONGITUDE:	41.335366 N, -73.787133 W		
PARCEL ID:	6.18-1-1		
ZONING:	R1-20 Single Family Residential		
NOTES:	Estimated height.		

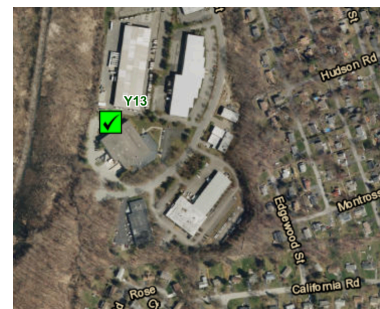


**Site Y10****Greenwood Street****Yorktown**

<b>STRUCTURE TYPE:</b>	Tower
<b>FACILITY TYPE:</b>	Monopine
<b>ANTENNA TYPE:</b>	Macro Cell
<b>DESIGN TYPE:</b>	Concealed
<b>FACILITY OWNER/ID:</b>	SBA - NY41502
<b>FACILITY SITE NAME:</b>	Yorktown Waste Facility
<b>SERVICE PROVIDERS:</b>	Sprint, T-Mobile
<b>FCC ASR:</b>	1265831
<b>HEIGHT:</b>	150'
<b>LOCATION:</b>	Public Property
<b>LATITUDE/LONGITUDE:</b>	41.281337 N, -73.772449 W
<b>PARCEL ID:</b>	37.11-1-52
<b>ZONING:</b>	R1-80 Single Family Residential
<b>NOTES:</b>	

**Site Y13****1401 Front Street****Yorktown**

<b>STRUCTURE TYPE:</b>	Tower
<b>FACILITY TYPE:</b>	Monopole
<b>ANTENNA TYPE:</b>	Macro Cell
<b>DESIGN TYPE:</b>	Non-Concealed
<b>FACILITY OWNER/ID:</b>	American Tower Corporation - 209296
<b>FACILITY SITE NAME:</b>	Yorktown
<b>SERVICE PROVIDERS:</b>	Verizon
<b>FCC ASR:</b>	
<b>HEIGHT:</b>	131'
<b>LOCATION:</b>	Private Property
<b>LATITUDE/LONGITUDE:</b>	41.263633 N, -73.779609 W
<b>PARCEL ID:</b>	48.11-1-52
<b>ZONING:</b>	I-2 Planned Light Industrial
<b>NOTES:</b>	

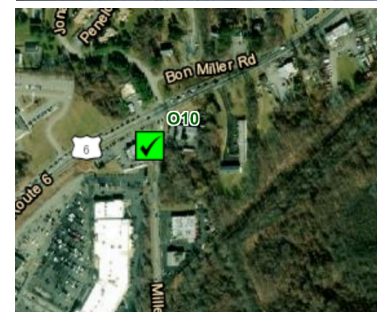


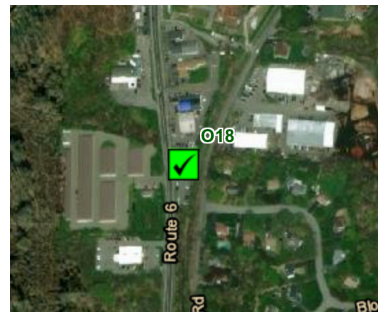


Site C1		Croton Lake Road	New Castle
STRUCTURE TYPE:	Tower		
FACILITY TYPE:	Monopole		
ANTENNA TYPE:	Macro Cell		
DESIGN TYPE:	Non-Concealed		
FACILITY OWNER/ID:	SBA		
FACILITY SITE NAME:	Somers 2		
SERVICE PROVIDERS:	AT&T, Sprint, T-Mobile, Verizon		
FCC ASR:	1271315		
HEIGHT:	154'		
LOCATION:	Private Property		
LATITUDE/LONGITUDE:	41.230258 N, -73.753698 W		
PARCEL ID:	07100500010010000000		
ZONING:			
NOTES:	A monopole tower painted brown and green located outside the Town's jurisdictional boundary.		



Site O10		195 Route 6	Other
STRUCTURE TYPE:	Tower		
FACILITY TYPE:	Flag Pole		
ANTENNA TYPE:	Macro Cell		
DESIGN TYPE:	Concealed		
FACILITY OWNER/ID:	SBA - NY47415		
FACILITY SITE NAME:	Mahopac Diner		
SERVICE PROVIDERS:	Sprint		
FCC ASR:			
HEIGHT:	82'		
LOCATION:	Private Property		
LATITUDE/LONGITUDE:	41.350000 N, -73.752910 W		
PARCEL ID:			
ZONING:			
NOTES:			



**STRUCTURE TYPE:** Tower**FACILITY TYPE:** Roof**ANTENNA TYPE:** Macro Cell**DESIGN TYPE:** Concealed**FACILITY OWNER/ID:****FACILITY SITE NAME:****SERVICE PROVIDERS:** Verizon**FCC ASR:****HEIGHT:** 25'**LOCATION:** Private Property**LATITUDE/LONGITUDE:** 41.358526 N, -73.746784 W**PARCEL ID:****ZONING:****NOTES:**





## APPENDIX H2

# **WIRELESS INFRASTRUCTURE SURVEY RESULTS**

# Wireless Infrastructure Poll

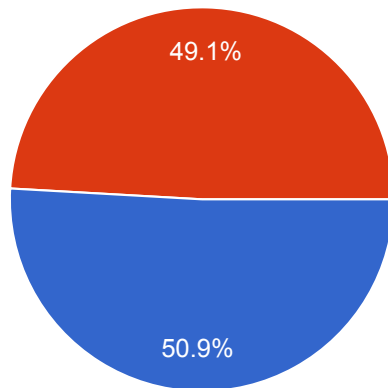
671 responses

[Publish analytics](#)

Thank you for taking the time to complete this poll. Please tell us a little about yourself.

 [Copy](#)

666 responses

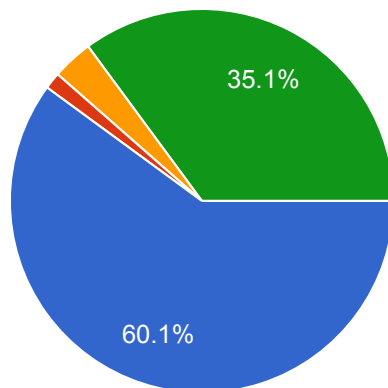


- I am answering these questions on behalf of myself
- I am answering these questions on behalf of my household

Choose which best describes you:

 [Copy](#)

641 responses



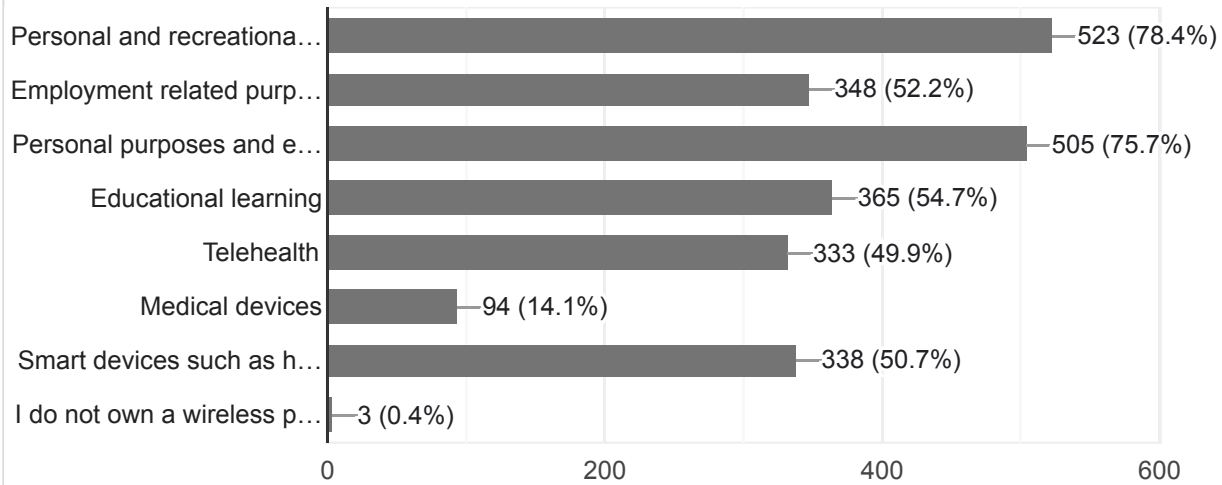
- I live and work in Town year-round
- I live and work in Town seasonally
- I live outside Town but work in the Town
- I live in Town but work outside the Town



## I use personal wireless services for (check all that apply):



667 responses



## Please identify the area where you live by one of the following: Address, Zip Code, Hamlet, Use Area, Lake District, General Area

658 responses

10589

10536

10527

10598

Heritage Hills

10501

10505

10578

10540

Shenorock

Amawalk

10587

Granite Springs

10541

Lake Lincolndale

Lincolndale

Shenorock

Lake Lincolndale

Heritage hills

Lake Purdys

Amawalk

heritage hills

Katonah 10536

Granite Springs

The Willows

10512

Loomis


Stonehouse Rd, Somers

10 Route 116 Somers NY 10589




Purdys


Heritage Hills 10589

 deans bridge area

Dr. Tonys Rd, Katonah 10536

 Quaker Church Rd

Heritage hills


 Lynway Ln., Somers, NY 10589


06810

Heritage hills 10589


Elmer Galloway Rd

Heritage Hills-East Hill

 Fairview Drive, Yorktown Heights 10598

 Heritage Hills

Wilner Rd


 Little Bear Drive (off 118h

shenorock

Lake Purdys 10578

David Rd

 Krystal Drive

 heritage hills

Park lane somers

Deans Bridge Area

Purdys 10578

Baldwin Place

 Mahopac Ave, Granite Springs


Lincolndale Lake

Driftwood Drive, 10589, Somers

Frances Dr 10536

Lovell St, 10540

Krystal Dr, Somers NY

 Dr. Tony's Road

 Amawalk Road Katonah ny 10536 (Amawalk Road is Route 35)

 Mohawk Lane. 10598

10536 south Somers

Baldwin Place

 Equestrian Park Drive 10536 Katonah

10525

Yorktown Heights 10598

Hilltop road Katonah 10536

Horton estates

Heritage Hills Condominium Complex

Lee Road, Somers, NY 10589

Florence Drive, 10541

Lincolndale 10540

10546


 Tulip road, Lake Lincolndale


Valley Dr, 10598


10536 (Somers)

Baldwin place


10599


 Heritage Hills, Somers


 Palma Road 10589

 Valley Drive East, Shenorock

 Hilltop Drive, Yorktown Heights 10598


 Seminary Lane Granite Springs

 Hilltop Drive

10536  Otha drive Katonah ny




 GREENLAWN RD


 Butler Hill Rd Somers, NY 10589

10536 louis drive

amawalk

Wilner/Londonderry

 Benjamin Green, Mahopac, 10541

 heritage hills

Brick Hill Road, Somers, NY

somers, heritage hills

 Fieldstone Dr., 10536 Katonah Town of Somers

 Campbell Drive, Somers NY

10589 greenbriar

Krystal Drive, 10589

Somers

113 more responses are hidden

If you work in Town at a fixed location other than your place of residence then please identify where you work by one of the following: Address, Zip Code, Hamlet, Use Area, Lake District, General Area

180 responses

10589

10536

10598

N/A

NA

Retired

10578

10501

10601

10595

10540

10527

10577

Home

10505

na

Somers Library



Route 202

Somers Middle School

02554

At home

White Plains

Mount pleasant

Primrose area

Somers Central School District

10549

Primrose school Lincolndale

Amawalk

NYC

Heritage Hills

Bronx

Primrose

Somers High School


amawalk

Don't work in town

Residence

10504

Lincolndale firehouse

 RTE 202 Somers NY

Somers 10589



Elephant Hotel

Lincolndale

10706

library

Primrose school

same as residence

Work at home

work at residence

Somers NY

10604

Tarrytown


Mount Kisco

Rt 35, Cross River


Town Hall


Heritage Hills Resident

All over ny


 village sq, Somers, ny

10017

 Route 202

 primrose st

Route 138

 Route 202, Somers 10589

Purdys

10550

Do not work; retired

general area

Not applicable.

Manhattan, NY

10506


Somers

At Home

10589, Somers, Historic District

 Rte. 202

10594

 Mahopac Ave.

Lincoldale

I do not work in town

Route 100

10580

Reis Park

Same as above

☒ Primrose St

Shenorock

I do not work.

☒ Primrose St, Katonah, NY 10536

☒ Village Square, Somers

Town Centre, 10589

☒ Village Sq., Somers 10589

The Willows

☒ Village Square, 10589

☒ Village Square hut

Town Centre 104 Village Square

Houlihan Lawrence, Somers office

Somers Public Library

Route 202, 10589

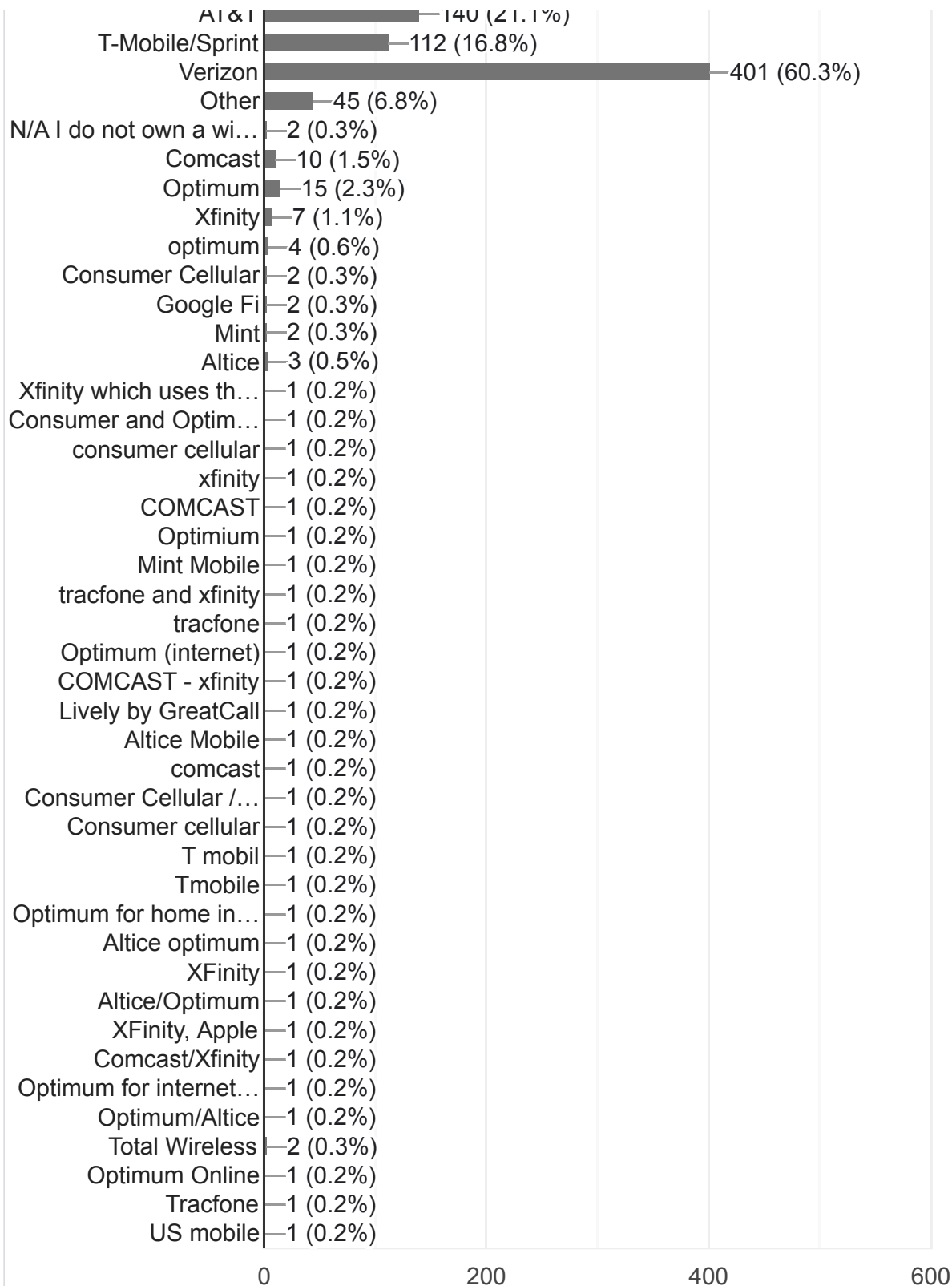
My Wireless Service Provider is (if you have multiple wireless providers then please mark all that apply):

 Copy

665 responses

AT&T 100% 40% 10% 10% 10% 10% 10% 10% 10% 10%





How many wireless devices are used in your household? (Devices would include but not be limited to; wireless phones, laptops, tablets, watches, computers NOT using your home internet provider. Do not include items like garage door openers or smart home items.)

657 responses

4

6

5

3

2

8

10

7

12

9

1

15

11

14

20

13

16

18

One

Six

24

phone

five

15

four

Four

25

5-6

phone, laptop, cell phone

5 or more

2

wireless phone, laptop, printer, tv, tablet

phones, tablets

5 Devices

3 phones (2 verizon and 1 t-mobile)



Five

10+

2 phones

min 9

23

approx 20

one

Seven

6

six

0



2 phones and alarm system



Cell phone

3 wireless phones

21

At least 20

Eleven

5-8

??

bad question!!!

22

Smart phone, I pad

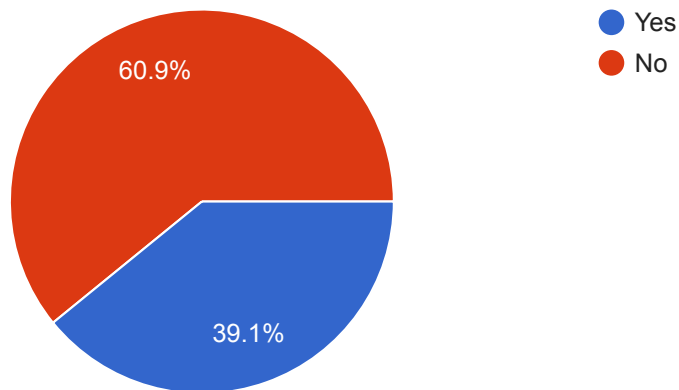
30

32

Do you have a network extender (booster) to enhance your wireless service from your provider?



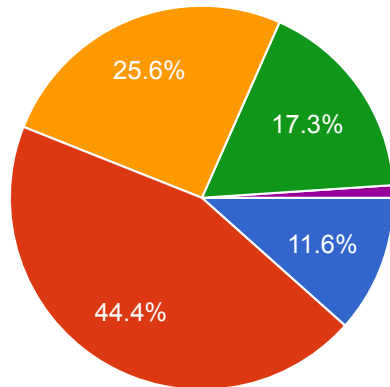
662 responses



## Wireless network coverage where I reside is:



664 responses

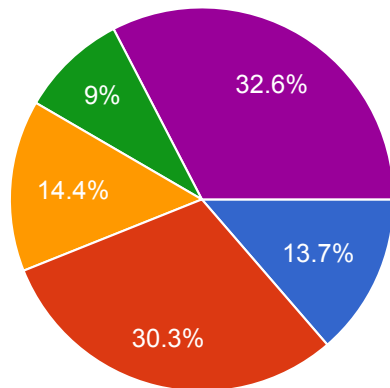


- Excellent (5 bars indoors and service never drops)
- Acceptable (3 bars indoors)
- Poor (1 bar indoors)
- Inconsistent
- N/A

## Wireless Network coverage where I work is:



644 responses

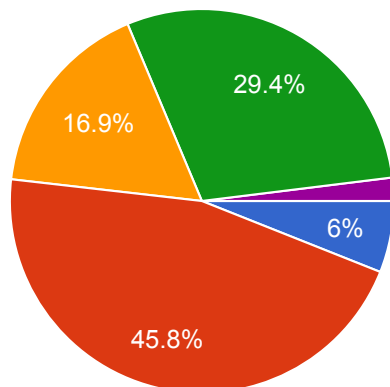


- Excellent (5 bars indoors and service never drops)
- Acceptable (3 bars indoors)
- Poor (1 bar indoors)
- Inconsistent
- N/A

## When I travel in and around the Town my network coverage is:



664 responses



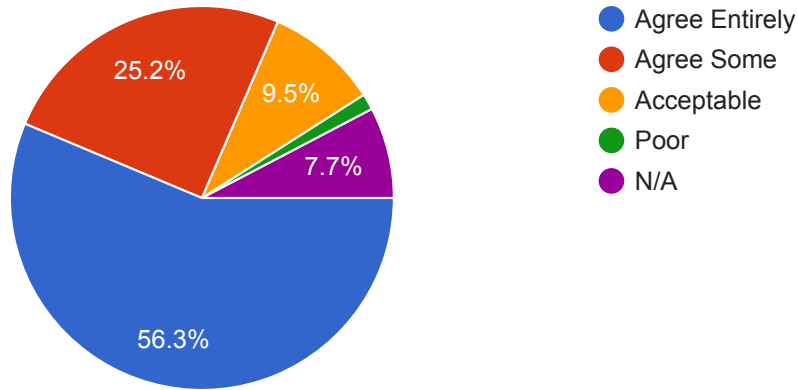
- Excellent (5 bars in vehicle and service never drops)
- Acceptable (3 bars in vehicle)
- Poor (1 bar in vehicle)
- Inconsistent
- N/A



I would rely more on my mobile device(s) if the network service was better.



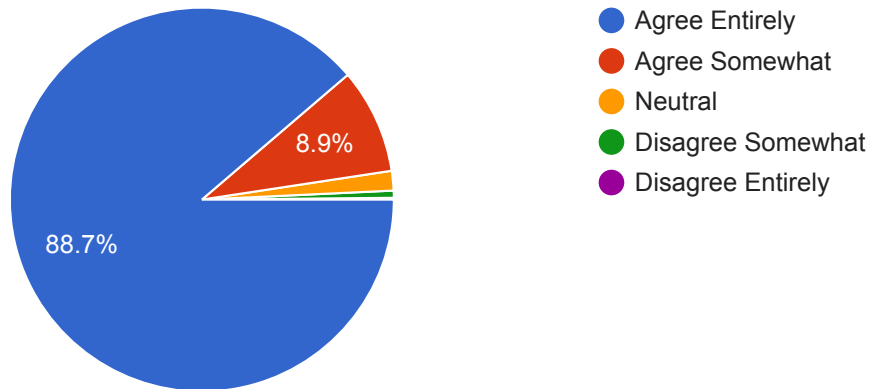
664 responses



The quality of wireless service is important to me.



666 responses



Are there specific areas of Town where your service is poor? If yes, please explain below.

431 responses

No

Reis Park

Lake Purdys

Heritage Hills

Route 35

no

NA

139

My home

Everywhere

Heritage Hills

Near Reis Park

My house

Heritage hills

Near Reiss Park

n/a


Warren Street

Not sure

Near Townhouse, Route 100 from Stone House to Route 35

White Hall Corners

116,

 Cobbling Rock Drive has no Verizon reception

Warren Street by Greenbriar

Route 116 past the entrance to IBM to the train station

Country Hollow Drive has terrible service

Parts of Heritage Hills, Route 100 south to Rte 35, Rte 138, Rte 202 from Rte 100 to Croton Falls

Not just wireless but the monopoly of just optimum is a major problem

Absolutely. We live in Primrose Farms (Adams Farm Rd) and the service is terrible. When we lose power and WiFi, it's nearly impossible to even send a text message. Making a call off of my cell phone in my house is nearly impossible at all times.

By Lasdon

Primrose Street

driving on Rt 35 (near where I live and also where I live). Still have landline for that reason

Warren street

Quaker Church Rd, Loder Rd area, Granite Springs Rd and Route 35 between Rt 118 and Rt 100. No service at all there

Yes , west hill drive and Warren street

My home and my son's home both in 10536 area of Somers

Towne center at Somers

near mahopac ave/rt 6 area

Westridge Drive-Heritage Hills, Lake Road, parts of Route 35

West Hill = Heritage Hills



home and by Reis along 139

South somers

Reis Park. Route 139. Around schools. Van Tassel.

Mahopac Ave Granite Springs Road

Reid park area, 35 between 118 and 10"

Within Heritage Hills, including in my home on east hill

lincolndale

Certain areas of Heritage Hills, parts of route 100

Around my home in Amawalk

Granite Springs

Primrose Farms neighborhood

Moseman, 139 by Angle fly

Low lying areas.

Moseman Avenue

Yes. Always drop calls on Moseman between 100 and Wood and on 35 between Wood and Mekeel

Consistent drop on Primrose near Angle Fly.

near angle fly

Amawalk near on Mahopac Ave, esp around country hollow and water gate

dont know

In Somers chase, near the intersection of 100 and 35

Near my home

Library (at least it was a year ago, maybe its better now)

Angle Fly

Back woods and spots around down .. I varies

Sporadic on all the major routes throughout somers

Don't know

Route 100 and route 35 in somers

Route 100. Route 139

Route 35 heading to Yorktown, by the library

Rte 139

Between middle/intermediate schools and Lovell, sections of warren between 202 and greenbriar

Along route 35

GreenBriar

10536

All along Mahopac Avenue, from rt 6 to rt 35, around the reservoir, and all along RT 35, right through to Katoniah, where it's also not good.

route 35, route 100

Reis Park and surrounding area outside of Somers Library Wifi connection coverage. Angle Fly area.

Primrose Dr (south end connecting 100), CVS parking area

Driftwood service is awful

Somers

Rt 35 Rt 139 Rt 100 Rt 202 Rt116

Dead spots in Heritage Hills and near town center

Road by Reis park going toward Katonah. Heritage hills activity center.

primrose street nearing rt100 we usually lose connection

Route 35 near Lasdon

Route 139 bet Library and Rt 100

We can not get cell service in my home. On my property outside of my home we get from 1 to 3 bars.

We have cut our cord and only have Verizon Fios Broadband. Inside the house we use Wifi calling.

When we lose power we lose Wifi and our ability to make calls.

Store parking lots

I loose it going west on 35 near Katonah Train Station

By reis park angle fly preserve by 7-11

Primrose St/Rt. 139, Rt. 116, Lake Avenue

Route 100 approaching Town Center, my kitchen in my home

Route 35 between Lasdon park and 100

Lake Purdy area

Around 202 towards Yorktown

At home

The junction of 202 & 116, Warren St. & Heritage Hills West Hill Drive, Lake Purdys

Service drops in Areas on rt 35 near cobbling rock rd

Yes, my home and surrounding area on equestrian park drive

Yes from somers HS route 139 to route 100

route 35 near Lasdon Park / various streets around Granite Springs,

Quaker church road. Granite springs road. Route 202 around reservoir

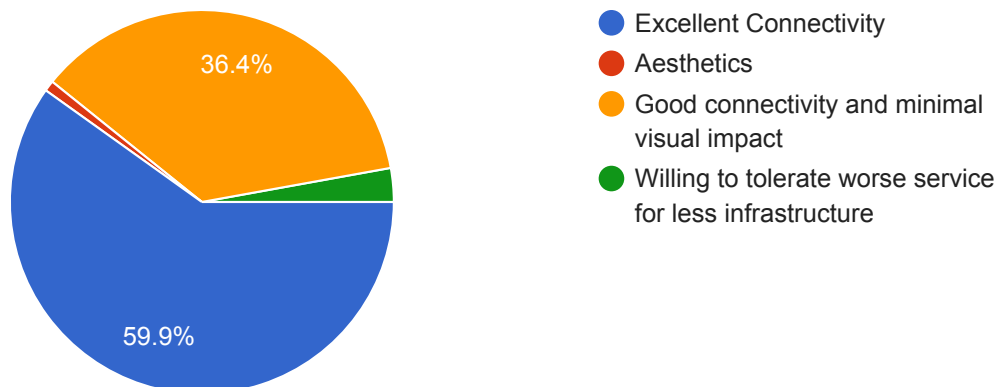
293 more responses are hidden

### Aesthetics and Location

What is most important to you?



668 responses

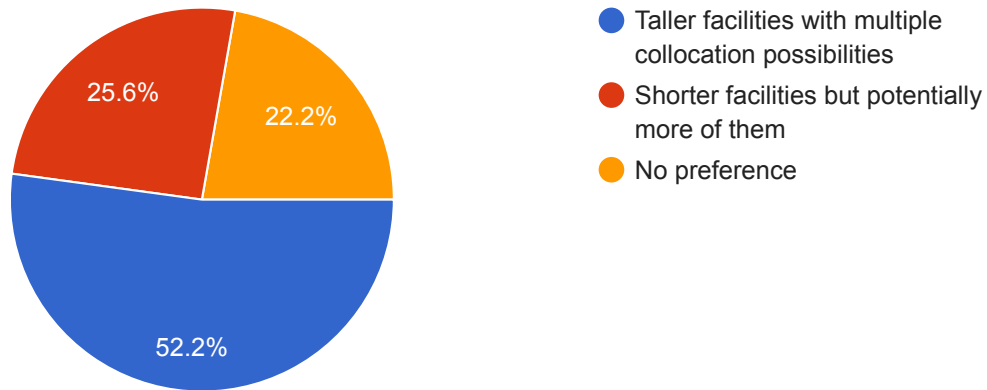




Taller traditional macro towers remain the backbone of the wireless network. Taller towers allow for more collocations but are more visible in the landscape. Building shorter tower are less visible in the landscape but limit collocations so more towers are required. Please choose which you prefer.



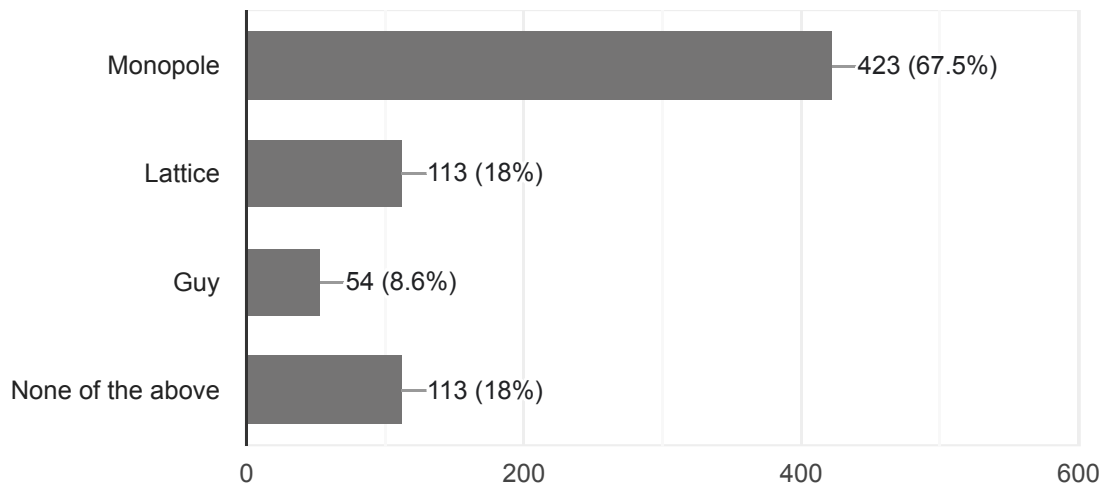
648 responses



Which non-concealed macro tower facility do you prefer? Check all that apply.



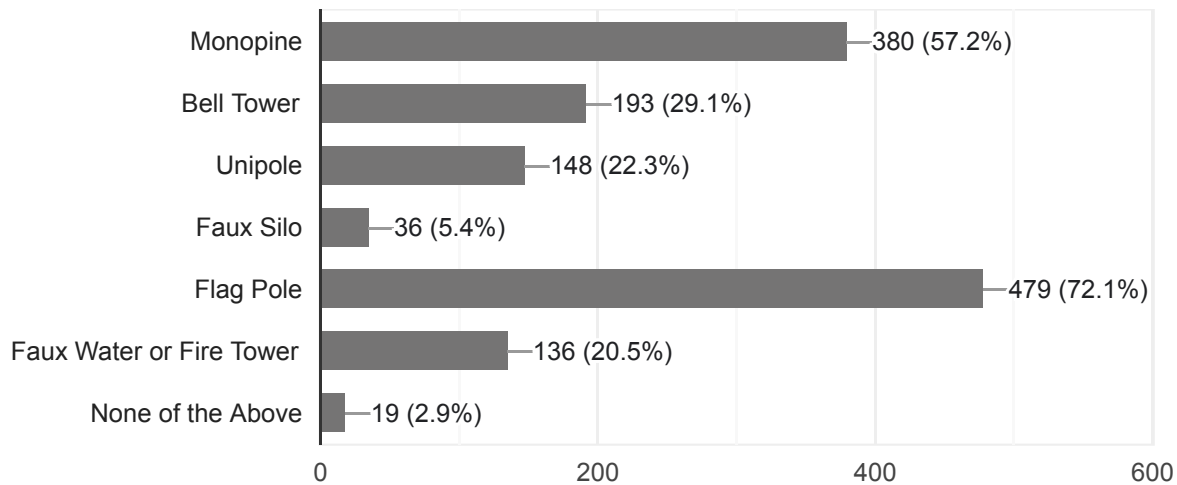
627 responses



Which concealed macro tower do you prefer? Check all that apply.



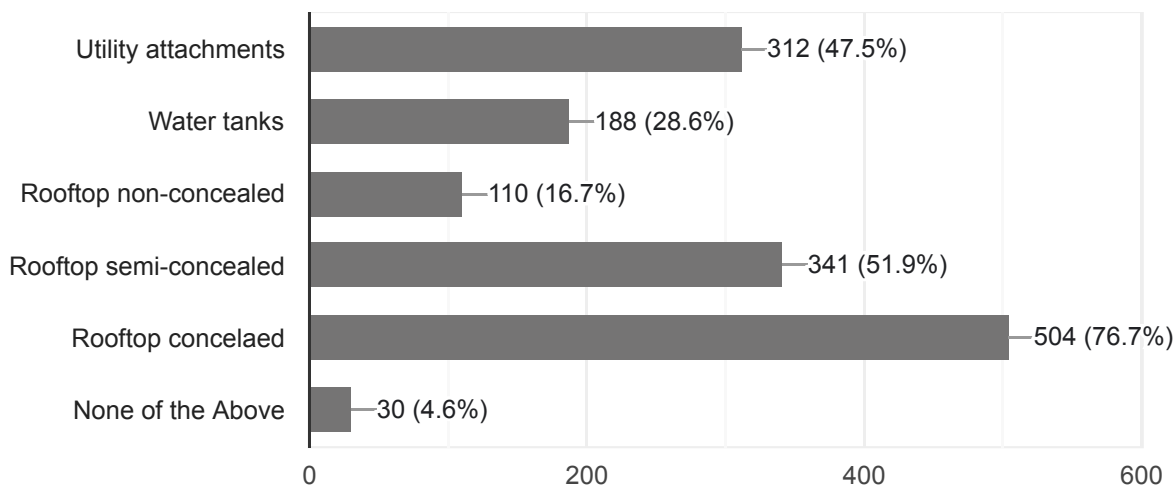
664 responses



A "base station" is any existing structure other than a tower that can accommodate wireless antennas. Examples include rooftops, water tanks, stadium lights, electrical utility poles. Which macro base station do you prefer? Check all that apply.



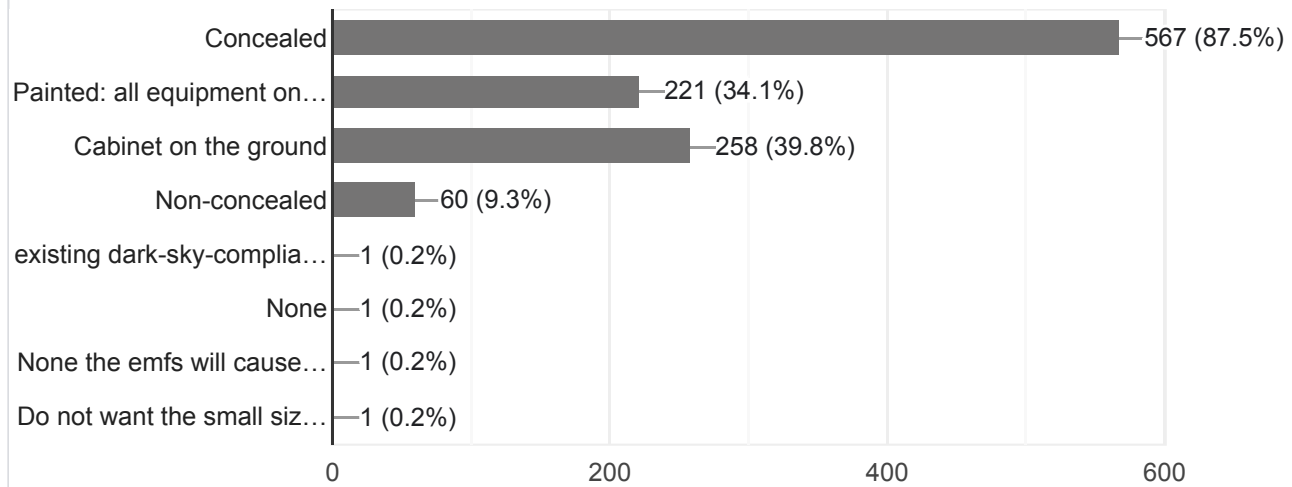
657 responses



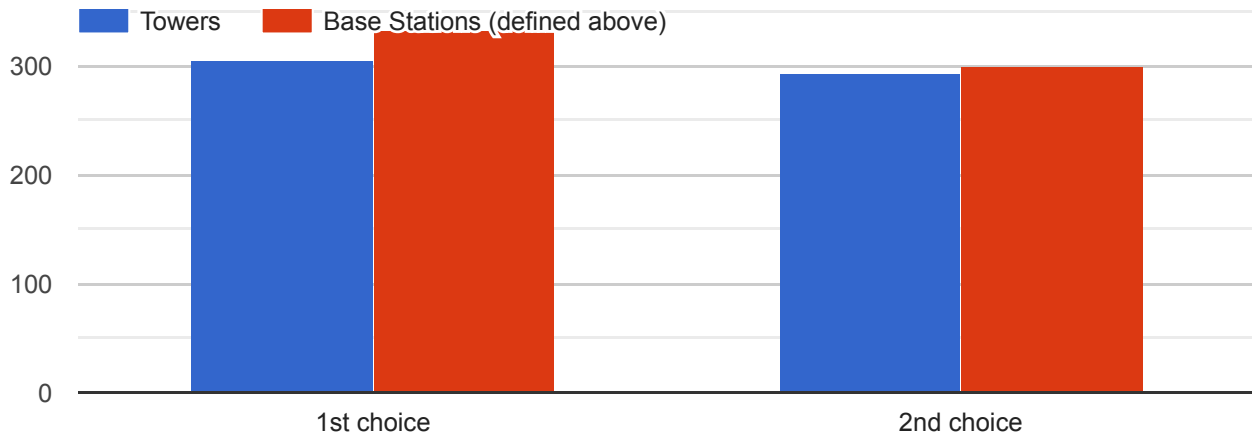
## Which small wireless facilities do you prefer? Check all that apply.



648 responses



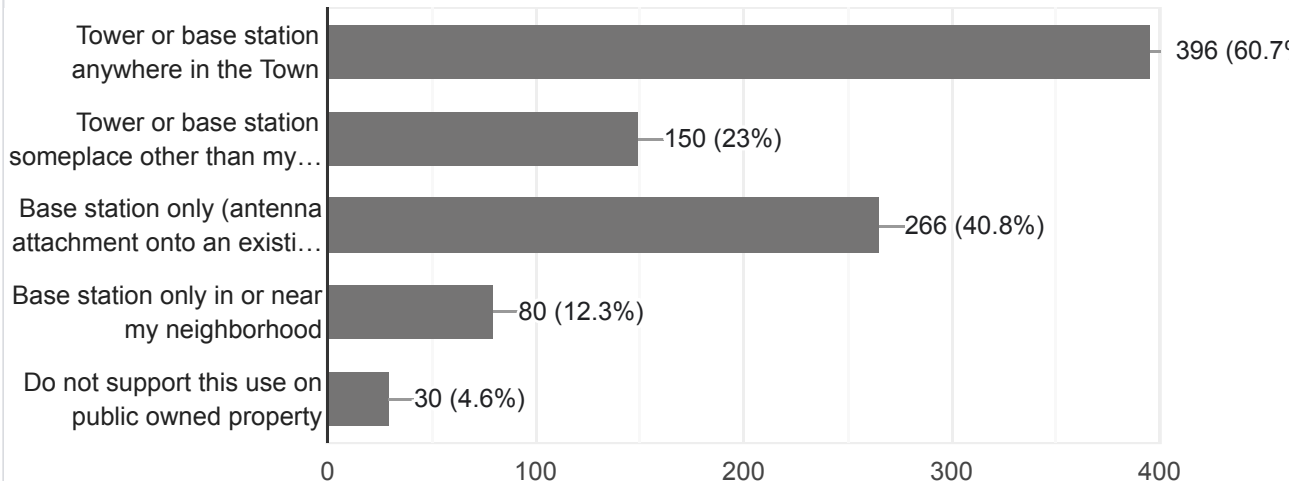
## Which do you prefer?



Town owned, school board or quasi public property (fire, ambulance core etc.) could be used to fill in wireless network coverage and capacity gaps in certain areas. Please check all that you would support.



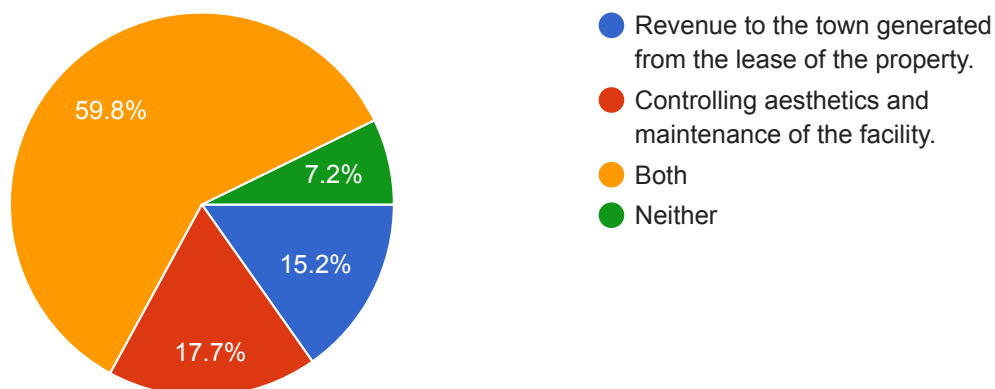
652 responses



If you support using Town owned, school board or quasi public property (fire, ambulance core etc.) property please choose which is more important to you.



650 responses



Name or email address \*email will not be used for anything other than this poll

671 responses







554 more responses are hidden

## Address

490 responses

Heritage Hills

Heritage Hills

A Heritage Hills

Hilltop Road

Hilltop Road

Summit Circle

Loomis Drive

Stonehouse Rd

Country Hollow Drive, Amwalk

E Heritage Hills

Cobbling Rock Drive, Katonah

Heritage Hills

Route 116 Somers NY 10589

10505

☒ Cross Way Purdys

☒ watergate dr

☒ Heritage Hills

☒ Hilltop Drive

☒ Carolyn way

☒ Adams Farm Road, Katonah NY 10536

☒ Jan Ridge Road

☒ Dr. Tonys Road

☒ Golf View Drive

☒ Quaker Church Rd

☒ Heritage Hls

☒ Heritage Hills , Somers NY

☒ Amawalk Rd, Katonah, NY 10536


☒ valley drive west


☒ Lynway Ln., Somers, NY 10589


☒ Heritage Hills


☒ Dunhill Dr


☒ route 202 somers ny 10589


 heritage hills


 Manor Lane


 Summit Circle, Somers

 David Rd. Somers


 Granite Springs Road


 MEadow park road baldwin place 10505


 Heritage Hills unit c

 Heritage Hills


 Fairview Drive, Yorktown Heights, NY 10598


 londonderry lane


 Heritage Hills, Unit C, Somers, NY 10589

 Arden Dr, Amawalk, NY 10501


 Heritage Hills


 Seminary Lane

 Heritage Hills, Somers NY 10589

 Equestrian Park Drive

Wilner Rd, Somers

 Little Bear Drive, Yorktown Hts

 Elizabeth Court, Katonah, NY

- ☒ Moseman Avenue
- ☒ Mekeel St. Kstonah, NY 10536
- ☒ Parkway Drive
- ☒ County Hollow Dr
- ☒ overlook way Purdys ny
- ☒☒ HH
- ☒ Meadow Park Road
- ☒ Noel Court Amawalk NY 10501
- ☒ David Rd
- ☒ valley pond rd katonah 10536
- ☒ Ross Drive
- ☒ Krystal Drive
- ☒☒ heritage hills
- ☒ park lane somers ny 10589
- ☒☒ amawalk road Amawalk NY 10501
- Jean Way, Somers
- ☒☒ Heritage Hills
- ☒ David Rd, Somers, NY 10589
- ☒☒ Heritage Hills



☒ Ross Dr., Shenorock

Jean Way Somers

☒ lakewood drive, katonah

☒ Heritage Hills

☒ Mahopac Ave, Granite Springs

☒ heritage hills, unit B

☒ North Lane

☒ David Rd

☒ Olive Dr. Mahopac NY 10541

Driftwood Dr, Somers, NY

☒ Heritage Hills Somers, NY 10589

☒ Heritage Hills, Somers, NY 10589

☒ Frances Dr. Katonah, NY 10536

☒ Lovell St, Lincolndale












☒ Krystal Dr Somers NY 10589

☒ Heritage Hills

☒ Dr. Tony's Road

☒ Raemont Road, Granite Springs, NY 10527

☒ Amawalk Road Katonah NY 10536

-  Heritage Hills Unit C; Somers NY 10589
-  Londonderry Lane Somers, NY
-  Heritage Hills, Somers, NY 10589
-  Hunter lane somers ny 10589
-  Campbell drive
-  Dr Tony's road katonah
-  Florence dr
-  Mitchell Road
-  Deans Bridge Road
-  Driftwood Drive, Somers
-  Mohawk Lane Yorktown Heights, NY 10598

381 more responses are hidden

## Comments or suggestions

164 responses

NA

Thank you!

No

Bring FIOS in as well as an alternative to Optimum which is horrible

The residents should not have to pay for this

The service around here is terrible and we are expected to rely on our cell phone, but you really

can't. I can't use it in my house - have landline still.

I don't want 5G anywhere near my house though! and prefer it to never come to our town.

Not clear that this whole survey is about CELLULAR wireless especially when asking about devices in your house. Most people do not know the difference between wifi and cellular.

This is way overdue. Nice to see Somers taking a step into the 21st century. Next focus should be a complete revamp of the town's website. It's antiquated!

Bad quality control - typos

Need more competition for services

move quickly to improve service

PLEASE fix cell service. To live in New York and have such terrible service is horrible, especially in case of emergency. We have multiple dead zones and many dropped/incomplete calls.

Would like FIOS as an option.

We decided against Yorktown because Mildred Strang Middle is all but under high power lines and ditto for Stamford's Westover Magnet neighborhood due to the cell tower over its ball fields. Having towers in the back lot of Somers Towne Center, but putting it on the Shenorock water tower with the nearest home 70' away is a zero sum game. I hope this is being done with an eye for making everyone winners.

thank you for survey

I think some of the questions on wireless may be confusing to some people as phones now will connect to your tv providers (Optimum, Verizon, etc) W-Fi or other Wi-Fi connections automatically. So when you are at home or in town, your phone may be connected to just your cell phone provider or both your cell phone provider and tv provider.

Very forward thinking, thanks

Would welcome better coverage and 5G coverage

Get rid of cablevision

Thank you for asking for our input.

glad to see this is being polled and / or instituted

do something about optimum!!!!!!!!!!!!

We have a fair amount of property, and I would consider putting a tower on our land, if there were a revenue component to it.

Thanks for this opportunity to participate.

I am 29 and I am answering this poll to represent a segment of residents that are unlikely to participate

Your questionnaire is confusing and in some cases ridiculous. It shows that you are not doing this for the best interests of our community.

The sooner the better. We already accept astonishingly ugly utility poles strung with endless wires. Adding a few more poles would make little aesthetic difference. No doubt this too will face NIMBY responses, the added value to the entire community should outweigh any perceived inconvenience.

Increased connectivity is a desirable and necessary goal. Generating revenue for the town is a great idea. However, aesthetics are critical. Placement and style are very important. I am absolutely opposed to any unsightly towers marring the landscape of our lovely town.

We need better wireless connections glad to see town has plans for additional towers

Do it ASAP 👍

Wish you would put more effort into internet and cable provider issue. Cablevision is terrible and there is no option for another provider for the residents of Somers. Verizon should be offered to us so there would be some competition and the service would then improve. Cablevision has a monopoly and therefore the service is bad and the COST KEEPS GOING UP.

We need to have more options of wireless providers other than Comcast.

Please address the need for a choice of cable internet providers. Optimum monopoly is not good.



Sometimes we need to willing to give something up for the greater good.

If it will offset costs for future town infrastructure improvements and will be contractually agreed to this, whatever works. Lowering or minimizing tax increases by means of external revenue generators is great to fund future infrastructure upgrades/maintenance.

I would love to have sewers in Lincolndale, please try again and local mail delivery to each individual home on Lincolndale . It has been many years since this was a summer community only.

Need internet services alternate to Optimum

It would be nice to coverage maps

I don't support having any structures in my neighborhood or on school property with children. Prefer them on main roads and away from homes. Shopping centers or land that no one lives on would be preferred. Anywhere away from homes and schools. Anywhere it would not be an eye sore and potentially hurt a homes value.

Thank you for doing this survey!

Primary consideration needs to be sturdiness in worsening weather and ease and cost of maintenance of the facilities. Truck access is required for battery maintenance and replacements.

For us function beats esthetics.

Thank you for asking our opinion!

tracfone uses VERIZON and it works fine

I saw cell phone towers disguised as trees and they really looked great. Put them among existing trees and they are all but invisible.

Concealed in existing steeple/bell tower is preferred, but towers/poles/building attachments that do not greatly exceed surrounding tree height is OK. Ponderosa Pine mimics look ridiculous. Tall uni-poles or flagpoles are not appropriate in residential areas of town.

More Important that Cellular is Internet Services at home - We only have one horrible option that is always inconsistent making it very hard to work from home

This poll should have also included broadband providers and service reliability, Optimum has a monopoly within most of Town. Their service is terrible and totally unreliable. If we were able to create a coverage map for different broadband providers.

We need more/better internet provider options. Optimum is extremely inconsistent. This results in using the hotspot on my phone to utilize internet on my laptop for work or even to watch TV using applications (netflix, Hulu, etc.) which rely on internet/wifi access.

Glad this is being looked into

need sustainability and capacity in times of emergency storms and power outages

What is not mentioned here is the environmental impact which is very important to us. No cutting down trees and disrupting nature. There is enough of that going on with all the building in Somers.

in addition MUST expand options for internet! Optimum is horrible to deal with and service drops often.

The Verizon service in Granite Springs got considerably worse in the last 8 months. With working from home becoming the new normal it is imperative that we get this fixed.

Focus should also be on back up facilities (UPS and generator) at the cell towers/base stations. Generators should be designed to last at a minimum 7 days. Resiliency and redundancy of these cell towers/base stations need to be a high priority. During power outages, landline based services have been knocked offline for days at a time along with the power outage. This situation automatically has all users default to the cellular networks. With the increase bandwidth consumption due to the increased use by the users in this scenario, coupled with lack of cell tower/base station back up power, communications by use of basic cellphone is almost non-existent. The maintenance and routine preventative maintenance of backup facilities has to be part of any MSA with any service provider.

Don't politicize this work- do what is best for the community

Just as the Town has had some success pressing NYSEG for better power reliability, the wireless network carriers (Verizon, ATT) should be pressed to upgrade their infrastructure and add locations to eliminate gaps/weak signal. The Town should make clear that it understands the importance of good connectivity and be flexible and open to additional infrastructure, even if at some aesthetic cost.

I hope you can do something to improve it without us having to pay more to Optimum. OR better yet, find another alternative so we don't have to depend on Optimum. Thank you.

The "town" has not objected to clearing land and building many new housing developments which are considered by many to be aesthetically displeasing. There should not be resistance to providing connectivity to the town either, although some may find the base stations or tower to be less than beautiful.

In order to support these types of facilities, a comprehensive fiber optic network is required for future capacity.

I would like to have the option to have a choice for internet services at my home. Currently the only option is Optimum which I am very unhappy with.

thank you for looking into this for the town.

Get 5G network as well. Cellular service is too expensive to be able to cut optimum out.

Our Verizon wireless service has gotten much worse over the past few years.

None at this time

Service is SO poor at my location; broken streams, can't use my phone at all in my house

Cell service is consistently horrific in Lake Purdys, as is internet access Often impossible to connect or stay connected.

Why are we not discussing the harmful effects of these towers and base stations??? I would like to see greater discussions about safety and health concerns.

This is an important issue.....and even a safety issue if phones needed to be used in an emergency.....like a car accident in a poorly covered area.

Let vendors share existing towers. I am against adding any additional infrastructure in our town.

this is all a big waste of time and money. Every proposal is met with opposition from a handful of people and the boards put up too many roadblocks. The consultants for the town rip off the applicants and delay the process so they can charge more fees. Wirelss is essential and Somers is living in the past.

Get it done

I am opposed to 5G, definitely attached to the base station we already have at Pool 3!

dead zones and gaps corrected: separate from cable tv and transformer poles to expedite repair and maintenance.

Please also consider environmental impacts such as loss of habitat and impacts on migrating birds, bats, and pollinators.

I don't think cell phone wireless is an issue in our town. making sure the power and cable stays on is much more important.

Please do everything in your power to improve connectivity. It's an embarrassment (and it's dangerous) that what we have is so primitive.

If infrastructure is going to be proposed and it is going to be in our Town either way, then capitalizing on it as a revenue stream utilizing Town owned properties makes a lot of sense.

wireless service has definitely gotten better since I first moved up here but getting more speed would be great

Please note that in times of power outages our cell phone signal becomes even worse & we are unable to text, make phone calls or access the internet thru our at&t cell phone service. Fixing this issue is critical.

Go get us some good and reliable service. I support any decision to do this.

Low based and more of them concealed is crucial for a high speed 5G networks

Wireless service is so poor in my neighborhood that it's a safety concern. I could not call 911 from the immediate area outside my home, and service is unreliable in my home. A call to 911 could fail.

Before a final decision is made a final proposal should be available for town residents to review. Question, will there be a vote by the town residents on this matter?

These responses are my personal opinions as a private citizen.



Make it part of any new commercial or private new development authorized via zoning change. No antenna should be placed on schools.

We need more competition in this town other than Optimum and/or let Verizon put in FIOS for the entire town. Prices are much too high for many, especially senior citizens on limited incomes.

Please help improve our cell coverage. It is terrible where we live. Many Verizon staffers tell us there are cell problems in our area. This it taking months to fix with no end in sight

Also need to invite other high speed internet/fiber providers like Verizon here. Optimum is very unreliable and when cable and internet go down, it's not good

Thank you for taking the time and interest in this. When we loose power, even thou we have a generator, there is no cell service or home phone, which is a dangerous situation.

The poor wireless service in the town of Somers has gone on long enough. With Covid and people staying at home to work, with children having to work remotely - well that event has proven how poor the service is and the lack of supporting infrastructure has always been in our town. Now people are waking up to it. Not acceptable in this day and age. Not acceptable all these years my child could not call me from Reis Park. Not acceptable when cars were stuck on Route 35, at night, because of ice, or other events, blocking the road, and no one could call for help. It's always been a true safety issue, now everyone realizes it's much more than that, it's today's way to communicate. Fix the issue, work with the carriers that are even willing to work with the Town of Somers.

A survey on cable and internet provider service quality would also be great!

Improved cell coverage is essential and must be improved asap.

Please do not add towers to our beautiful town.

this poll completely ignored questions regarding the health and safety of this technology

On August 13, The U.S. Court of Appeals for the D.C. Circuit ruled in favor of the Children's Health Defense (CHD) in its landmark case against the Federal Communications Commission (FCC) challenging the FCC's decision not to review its health and safety guidelines regarding 5G and wireless technology. The court ruled that the FCC failed to provide a reasoned explanation for its determination that its current guidelines adequately protect against harmful effects of exposure to radiofrequency radiation and failed to review the extensive evidence –

scientific evidence and evidence of existing sickness – that was filed with the FCC.

ALL TOWERS SHOULD BE AS FAR AWAY FROM PEOPLE AS POSSIBLE. WIRELESS TECHNOLOGY HAS NOT BEEN PROVEN TO BE SAFE. WHEN ARE WE GOING TO FIND A WAY TO STOP RADIATING OUR BODIES INSTEAD OF ADDING MORE HARM. I APPEAL TO THE BOARD TO DO WHATEVER IS POSSIBLE TO KEEP US AS SAFE AS POSSIBLE. TAKE THE TIME TO DO SOME RESEARCH. I AM VERY DISTURBED THAT THIS SURVEY DOES NOT EVEN MENTION THE OPTION OF LESS TOWERS. IT ONLY WANTS TO KNOW HOW UGLY AND HOW MANY WE CAN TOLERATE. SHAMEFUL.

Boosting the Wifi in the Annex Building would be appreciated.

Need stronger connectivity in the Assessor's Building, 335 Route 202, Somers, NY

We also need better lighting on roadways, tree trimming and road re-surfacing in addition to better internet connectivity.

61 more responses are hidden

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