

STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

IN RE: :  
 :  
MCF COMMUNICATIONS bg, INC. AND : DOCKET NO. 344  
OMNIPOINT COMMUNICATIONS, INC. :  
APPLICATION FOR A CERTIFICATE OF :  
ENVIRONMENTAL COMPATIBILITY AND :  
PUBLIC NEED FOR THE CONSTRUCTION, :  
MAINTENANCE AND OPERATION OF A :  
TELECOMMUNICATIONS FACILITY :  
LOCATED OFF RICH ROAD IN :  
THOMPSON, CONNECTICUT : OCTOBER 3, 2007

RESPONSES OF CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS  
TO CONNECTICUT SITING COUNCIL PRE-HEARING INTERROGATORIES

Question No. 1

What are Cellco's licensed frequencies in Windham County?

Response

Cellco is licensed to operate in the cellular (869-880 MHz) and PCS F Block (1970-1975 MHz) frequency bands in Windham County Connecticut.

Question No. 2

Provide the following information for Cellco antennas that would be installed on this tower: number of channels per sector for each antenna system that would be installed on the proposed tower, ERP per channel for each antenna system, frequency at which each antenna system would operate, and height at which Cellco antennas would be installed.

Response

Cellular Antennas

Alpha Sector – 137 Feet

Antenna Type Antel LPA-80080-6CF-5

No. of Channels: 9

ERP/Channel: 200 W Max

Beta Sector – 137 Feet

Antenna Type Antel LPA-80080-6CF-5

No. of Channels: 9

ERP/Channel: 200 W Max

Gamma Sector – 137 Feet

Antenna Type Antel LPA-80080-6CF-5

No. of Channels: 9

ERP/Channel: 200 W Max

PCS Antennas

Alpha Sector – 137 Feet

Antenna Type Antel LPA-185080-12CF-2

No. of Channels: 3

ERP/Channel: 485 W Max

Beta Sector – 137 Feet

Antenna Type Antel LPA-185080-12CF-2

No. of Channels: 3

ERP/Channel: 485 W Max

Gamma Sector – 137 Feet

Antenna Type Antel LPA-185080-12CF-2

No. of Channels: 3

ERP/Channel: 485 W Max

Question No. 3

What is the signal strength for which Cellco designs its wireless system?

Response

Negative 85 dBm.

Question No. 4

What is Cellco's existing signal strength in the area that would be covered by its antennas on the proposed tower?

Response

Cellco's signal strength in the area surrounding the proposed Thompson North facility ranges from -86 dBm to -111 dBm.

Question No. 5

Define the area Cellco would be seeking to cover by locating antennas on this proposed tower.

Response

Cellco is looking to provide coverage primarily along Interstate 395 between its existing Webster 2 site in Massachusetts and Thompson site in Connecticut, as well as local roads in the northerly portions of the Town of Thompson.

Question No. 6

Does Cellco have a coverage gap on Interstate I-395? If so, what is the size of this gap?

Response

Yes. Cellco currently has a 1.2 mile gap in coverage at cellular frequencies and a 2.3 mile gap in coverage at PCS frequencies along I-395 between its existing sites in Webster 2 and Thompson cell sites.

Question No. 7

What would be the distance on Interstate I-395 that Cellco's antennas would cover?

Response

Cellco's proposed Thompson North cell site would cover an approximately 2.97 mile portion of I-395 at cellular frequencies and a 1.99 mile portion of I-395 at PCS frequencies.

Question No. 8

What is the total area that Cellco's antennas would cover from this site?

Response

Cellco's proposed Thompson North cell site will provide coverage to an overall area of approximately 9.8 square miles at cellular frequencies and 4.4 square miles at PCS frequencies.

Question No. 9

With which existing Cellco facilities would antennas at this location hand off signals? Identify sites by height of structure, height of antennas, type of structure, address, distance, and direction from the proposed site.

Response

Cellco's proposed Thompson North facility would hand-off calls to form adjacent cell sites. They include:

1. Cellco's existing Thompson cell site is located approximately 2.2 miles to the south. Cellco antennas are located at the 237-foot level on the existing 243-foot lattice tower located at 61 Lowell Davis Road in Thompson.
2. Cellco's existing Quinebaug cell site is located approximately 4.95 miles to the west. Cellco antennas are located at the 112-foot level on the existing 125-foot monopole tower at 720 Quinebaug Road.
3. Cellco's Webster 2 cell site is located approximately 3.36 miles to the northeast. Cellco antennas are located at the 130-foot level on the 660-foot guyed-lattice tower at 84 Old Douglas Road, Webster, Massachusetts.
4. Cellco's Webster cell site is located approximately 4.54 miles to the north. Cellco antennas are located at the 175-foot level on the existing lattice tower off Goya Drive, Webster, Massachusetts.

Question No. 10

Provide propagation maps showing Cellco's existing coverage and Cellco's proposed coverage.

Response

Attachment 1 contains the coverage plots requested. Proposed coverage from the Thompson North facility assumes Cellco antennas are mounted at the 137-foot level.

Question No. 11

How many antennas would Cellco install on the proposed tower? How would they be mounted?

Response

Cellco would install a total of 12 antennas (six cellular and six PCS) at this site. The antennas could be mounted on a conventional platform, a low profile platform or on T-arms. Regardless of the mounting configuration Cellco intends to install a total of 12 antennas.

Question No. 12

What is the lowest height at which Cellco's antennas could achieve its coverage objectives at this location?

Response

Cellco needs a minimum antenna height of 137 feet above ground level to satisfy its coverage objectives in the area.

Question No. 13

What would Cellco use for back-up emergency power?

Response

Cell site back-up power is provided by a series of wet-cell batteries installed inside the equipment shelter and a diesel generator installed inside a segregated 10-foot by 20-foot generator room.

Question No. 14

If Cellco plans to use a diesel generator, describe the fuel storage system.

Response

The generator unit maintains its own 275 gallon fuel tank. This tank is double-walled and maintains a leak detection system with alarms monitored remotely by Cellco technicians. In addition, the concrete floor of the generator room is depressed and is capable of maintaining a capacity of 120% of all fluids (fuel, oil and coolant) used in the event of a catastrophic failure of the generator unit. The generator room floor also maintains a leak detection system.

CERTIFICATE OF SERVICE

I hereby certify that on the 3<sup>rd</sup> day of October 2007, a copy of the foregoing was sent,

postage prepaid, to:

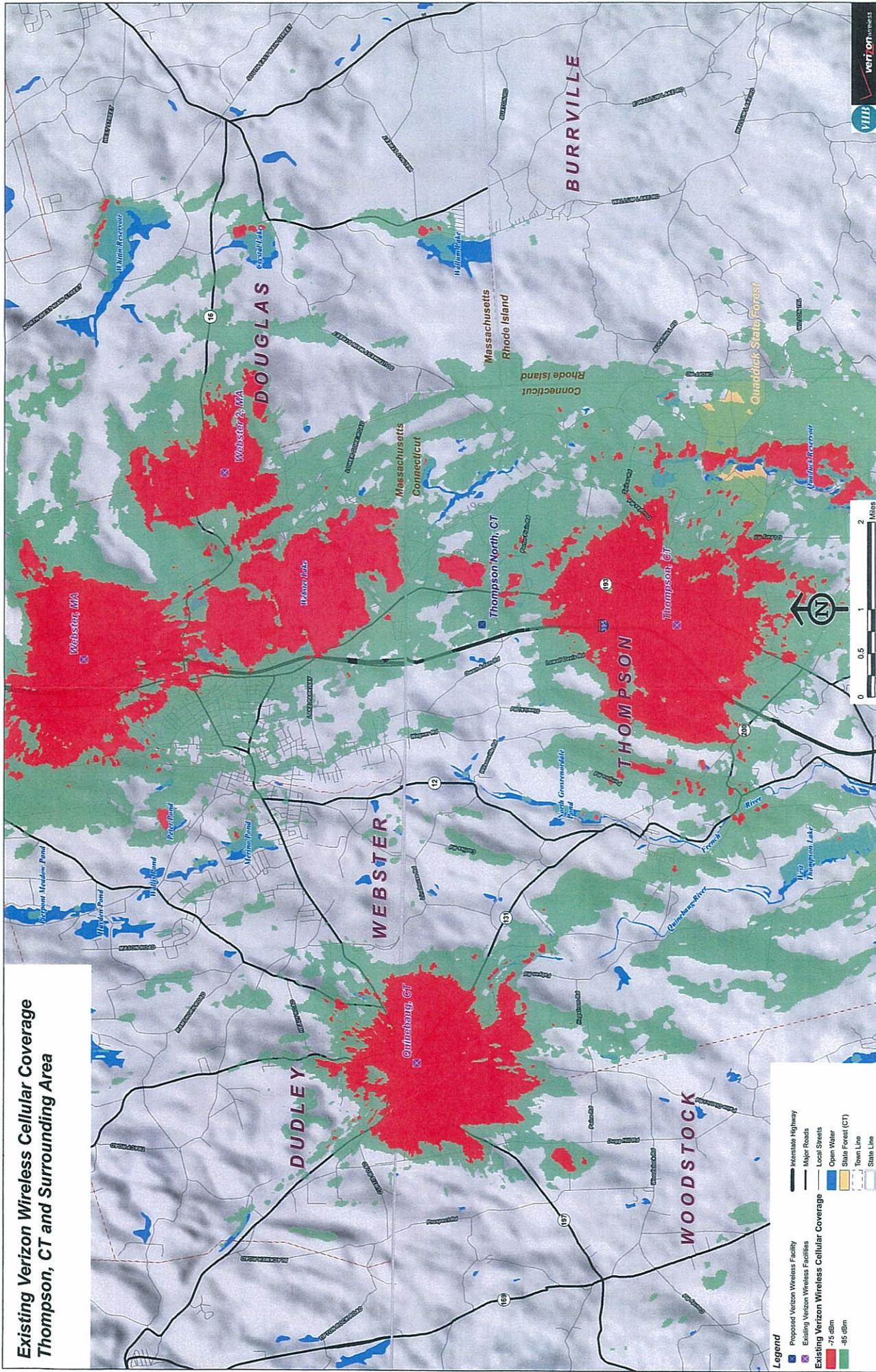
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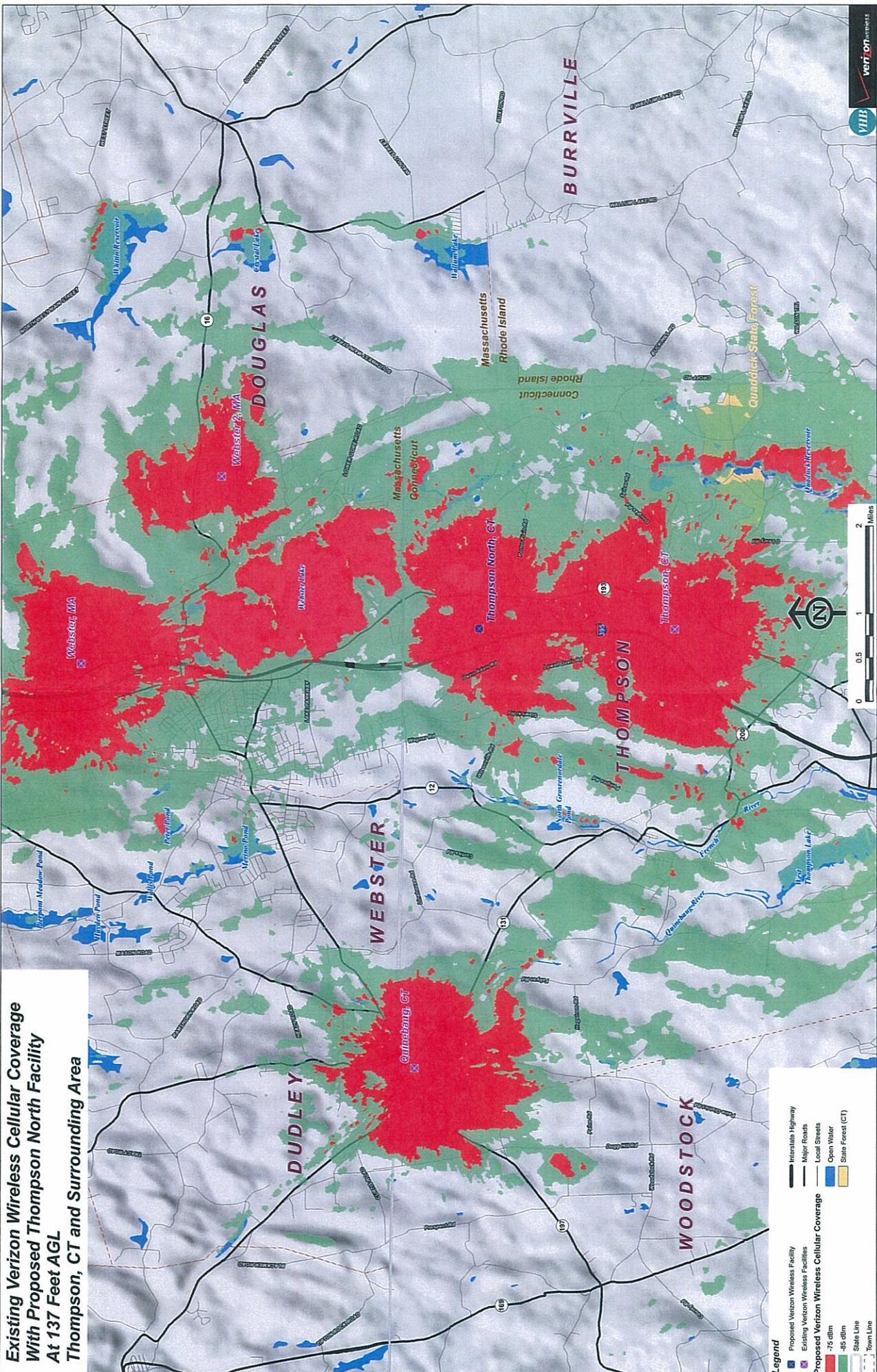


Kenneth C. Baldwin

**Existing Verizon Wireless Cellular Coverage  
Thompson, CT and Surrounding Area**



**Existing Verizon Wireless Cellular Coverage  
With Proposed Thompson North Facility  
At 137 Feet AGL  
Thompson, CT and Surrounding Area**

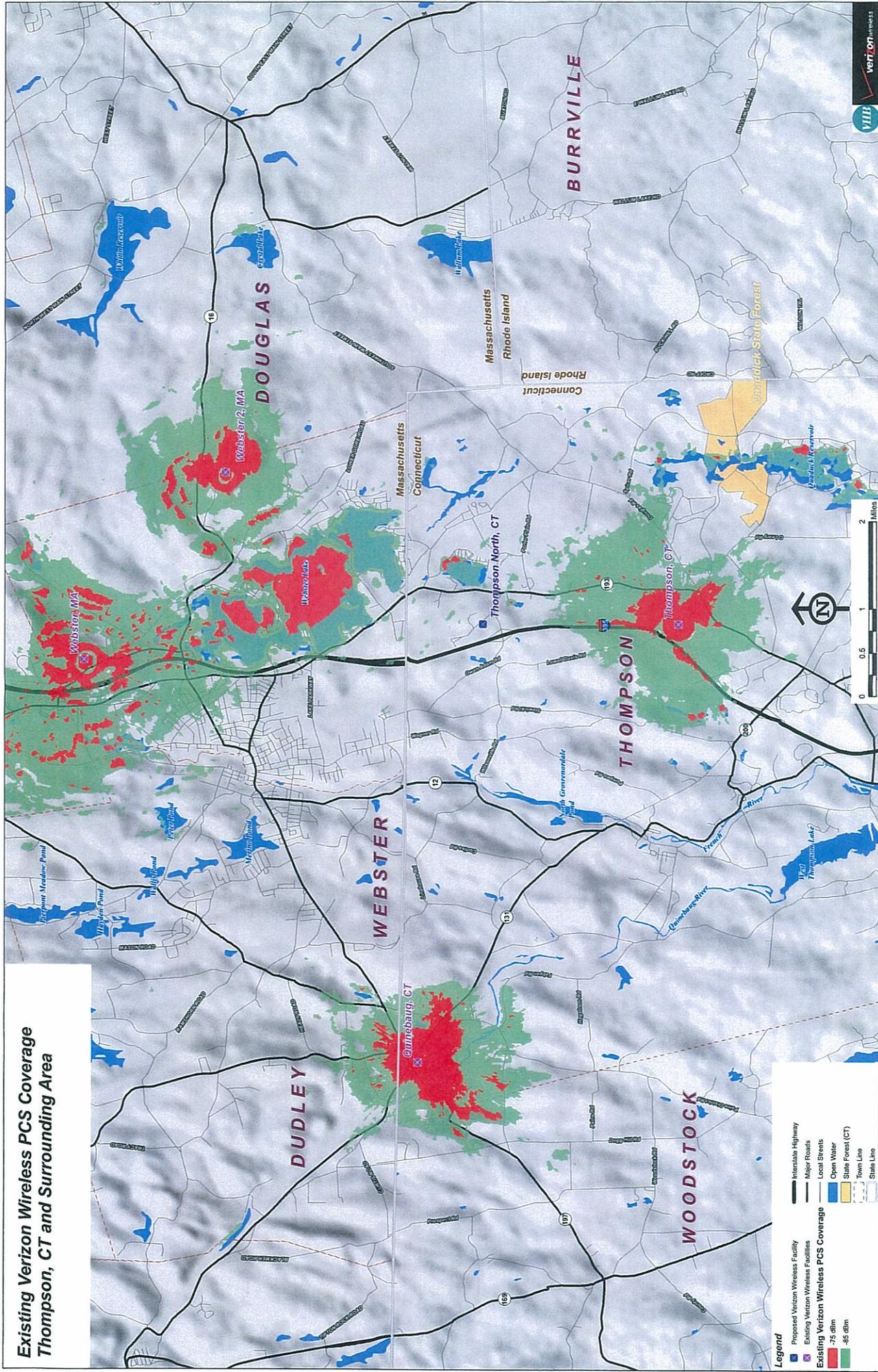


**Legend**

- Proposed Verizon Wireless Facility
- Existing Verizon Wireless Facilities
- Proposed Verizon Wireless Cellular Coverage
  - 75 dBm
  - 85 dBm
- State Line
- Town Line
- Interstate Highway
- Major Roads
- Local Streets
- Open Water
- State Forest (CT)

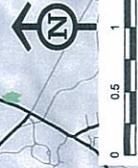


**Existing Verizon Wireless PCS Coverage  
Thompson, CT and Surrounding Area**



**Legend**

- Proposed Verizon Wireless Facility
- Existing Verizon Wireless Facilities
- Existing Verizon Wireless PCS Coverage
  - 75 dBm
  - 85 dBm
- Interstate Highway
- Major Roads
- Local Streets
- Open Water
- State Forest (CT)
- Town Line
- State Line



**Existing Verizon Wireless PCS Coverage  
With Proposed Thompson North Facility  
At 137 Feet AGL  
Thompson, CT and Surrounding Area**

