

STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

IN RE: :  
 :  
 :  
 APPLICATION OF SPRINT NEXTEL : DOCKET NO. 334  
 CORPORATION FOR A CERTIFICATE OF :  
 ENVIRONMENTAL COMPATIBILITY AND :  
 PUBLIC NEED FOR THE CONSTRUCTION, :  
 MAINTENANCE AND OPERATION OF A :  
 TELECOMMUNICATIONS FACILITY AT 186 :  
 BLACK ROCK TURNPIKE, REDDING, :  
 CONNECTICUT : JULY 24, 2007

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

On July 10, 2007, the Connecticut Siting Council (“Council”) issued Pre-Hearing Interrogatories to Cellco Partnership d/b/a Verizon Wireless (“Cellco”) relating to the above-captioned docket. Below are Cellco’s responses.

Question No. 1

What are Cellco Partnership d/b/a Verizon Wireless’ (Cellco) licensed frequencies in Fairfield County?

Response

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

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, watts 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

<u>Alpha Sector – 110 Ft.</u>	<u>Beta Sector – 110 Ft.</u>	<u>Gamma Sector – 110 Ft.</u>
Antenna Type: Antel LPA-80080/6CF	Antenna Type: Antel LPA-80080/6CF	Antenna Type: Antel LPA-80080/6CF
Frequency: 869-880 MHz	Frequency: 869-880 MHz	Frequency: 869-880 MHz
No. Channels: 9	No. Channels: 9	No. Channels: 9
ERP/Channel: 200 W Max	ERP/Channel: 200 W Max	ERP/Channel: 200 W Max

<u>Alpha Sector – 110 Ft.</u>	<u>Beta Sector – 110 Ft.</u>	<u>Gamma Sector – 110 Ft.</u>
Antenna Type: Antel LPA-185080/12CF_2	Antenna Type: Antel LPA-185080/12CF_2	Antenna Type: Antel LPA-185080/12CF_2
Frequency: 1970-1975 MHz	Frequency: 1970-1975 MHz	Frequency: 1970-1975 MHz
No. Channels: 3	No. Channels: 3	No. Channels: 3
ERP/Channel: 485 W Max	ERP/Channel: 485 W Max	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 of the proposed tower?

Response

Cellco's signal strength in the area around the proposed facility ranges from - 85 dBm to - 105 dBm.

Question No. 5

Does Cellco have a coverage gap on Route 58? If so, what is the size of this gap?

Response

Cellco currently experiences a 9.5 mile gap at cellular frequencies and a 10.6 mile gap at PCS frequencies along Route 58.

Question No. 6

What would be the distance on Route 58 that Cellco's antennas would cover?

Response

Cellco's antennas would cover 2.96 miles of Route 58 at cellular frequencies and 1.81 miles of Route 58 at PCS frequencies. Cellco will require additional sites in the future to cover the remaining gaps in coverage along Route 58 identified above.

Question No. 7

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

Response

Cellco's antenna would cover 10.4 square miles at cellular frequencies and 3.2 square miles at PCS frequencies.

Question No. 8

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

The proposed facility would hand-off calls to two adjacent cell sites:

1. Cellco's Easton North site, which is located approximately 1.81 miles to the East. Cellco's antennas are mounted at the 165-foot level on an existing 190-foot monopole tower at 197 North Street, Easton, Connecticut.
2. Cellco's Redding site, which is located approximately 1.95 miles to the East. Cellco's antennas are mounted at the 90-foot level on an existing 120-foot lattice tower at 80 Lonetown Road, Redding, Connecticut.

Question No. 9

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

Response

Coverage plots showing existing coverage at the cellular and PCS frequencies are included at Attachment 1. Coverage plots showing proposed coverage at cellular and PCS frequencies at the 110-foot level are included in Attachment 2.

Question No. 10

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

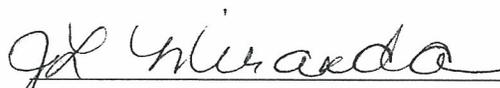
Response

Cellco plans to install (12) panel-type antennas (six cellular and six PCS) on the proposed facility. However, Cellco would also be willing to install low profile platform or T-arm antennas at this site.

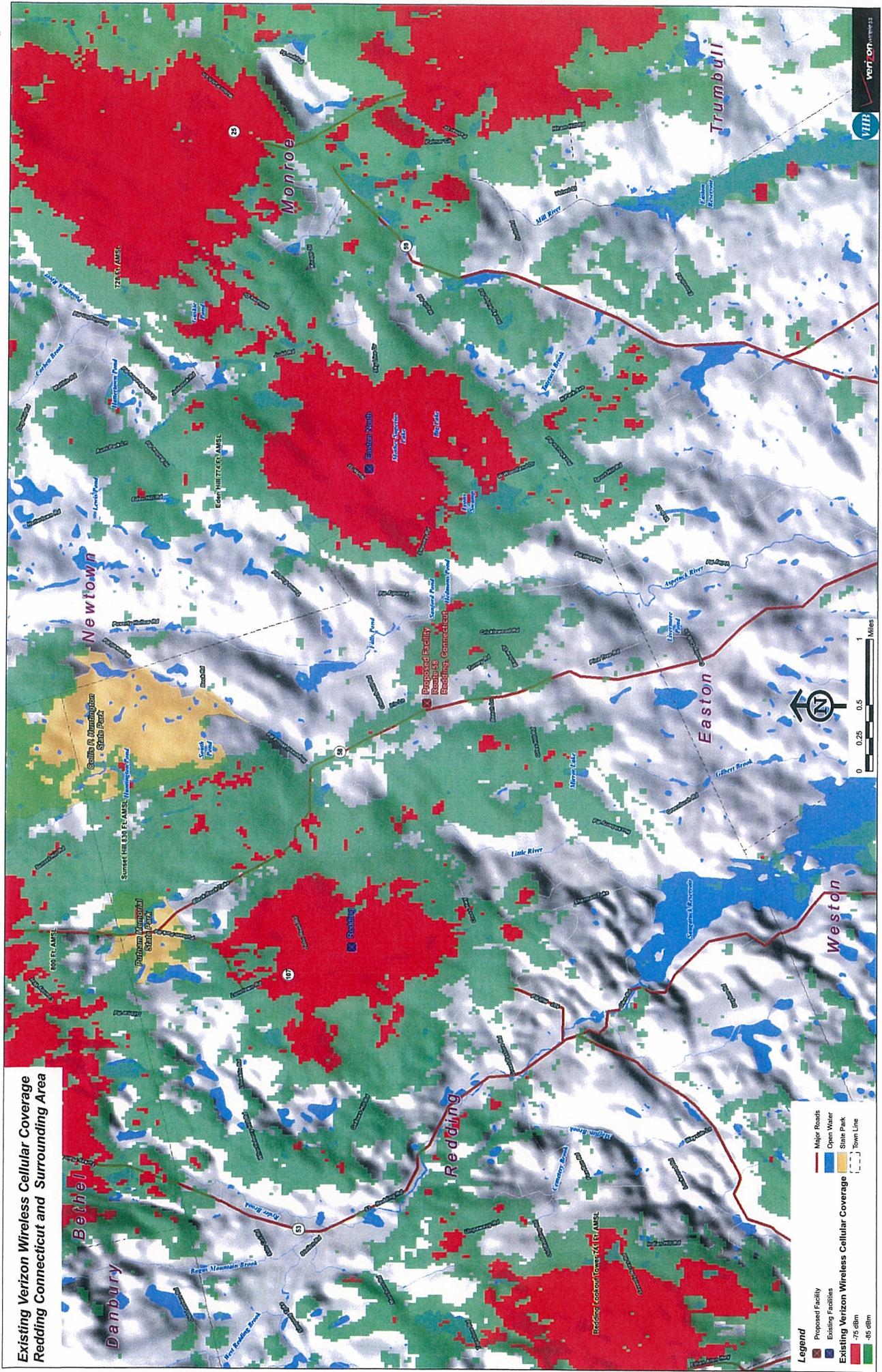
CERTIFICATE OF SERVICE

I hereby certify that on the 24<sup>th</sup> day of July 2007, a copy of the foregoing was sent,  
postage prepaid, to:

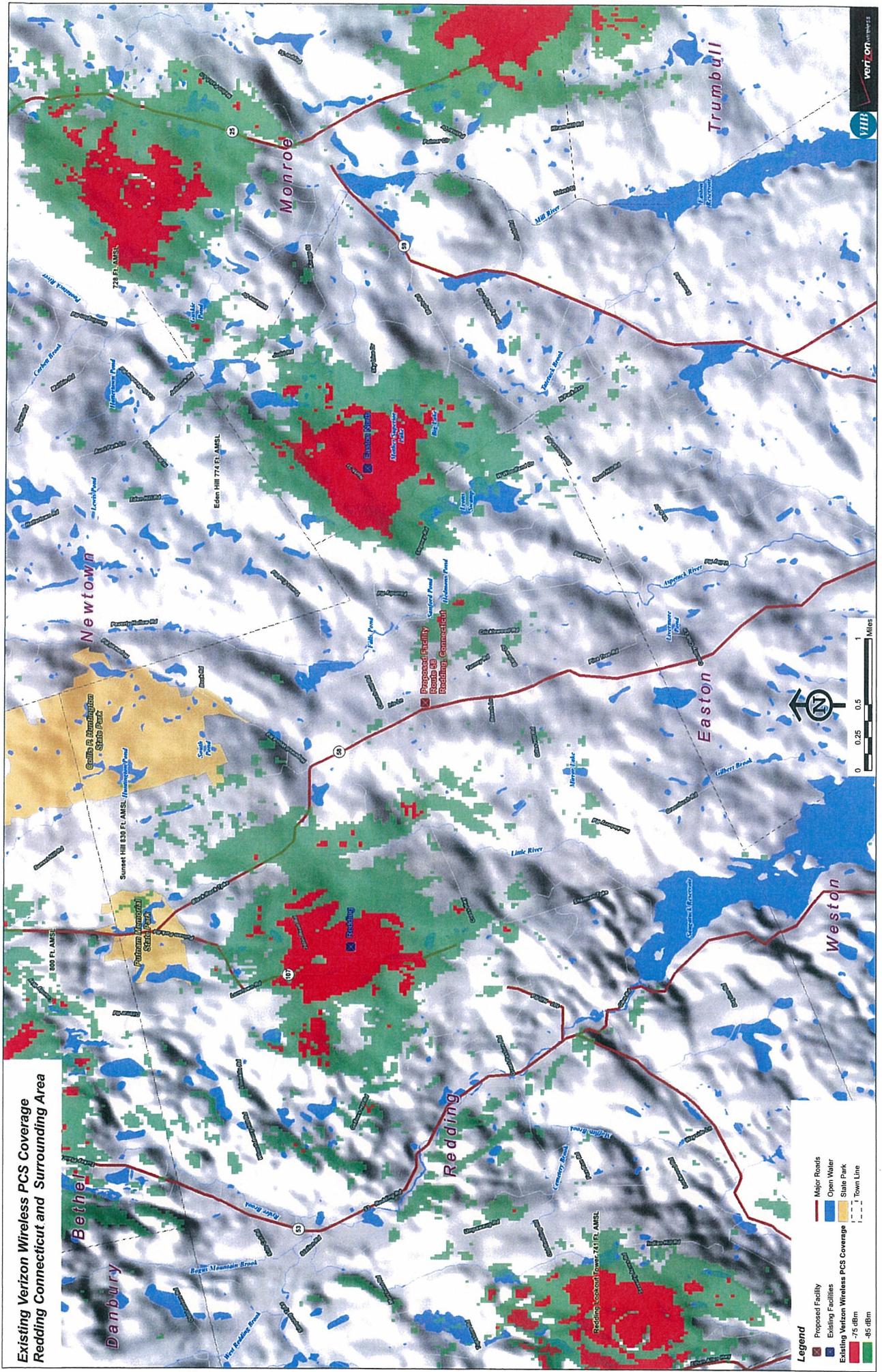
**Sprint/Nextel Corporation**  
c/o Thomas J. Regan, Esq.  
Brown Rudnick Berlack Israels LLP  
City Place 1  
185 Asylum Street  
Hartford, CT 06103

  
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Joey Lee Miranda

**Existing Verizon Wireless Cellular Coverage  
 Redding Connecticut and Surrounding Area**

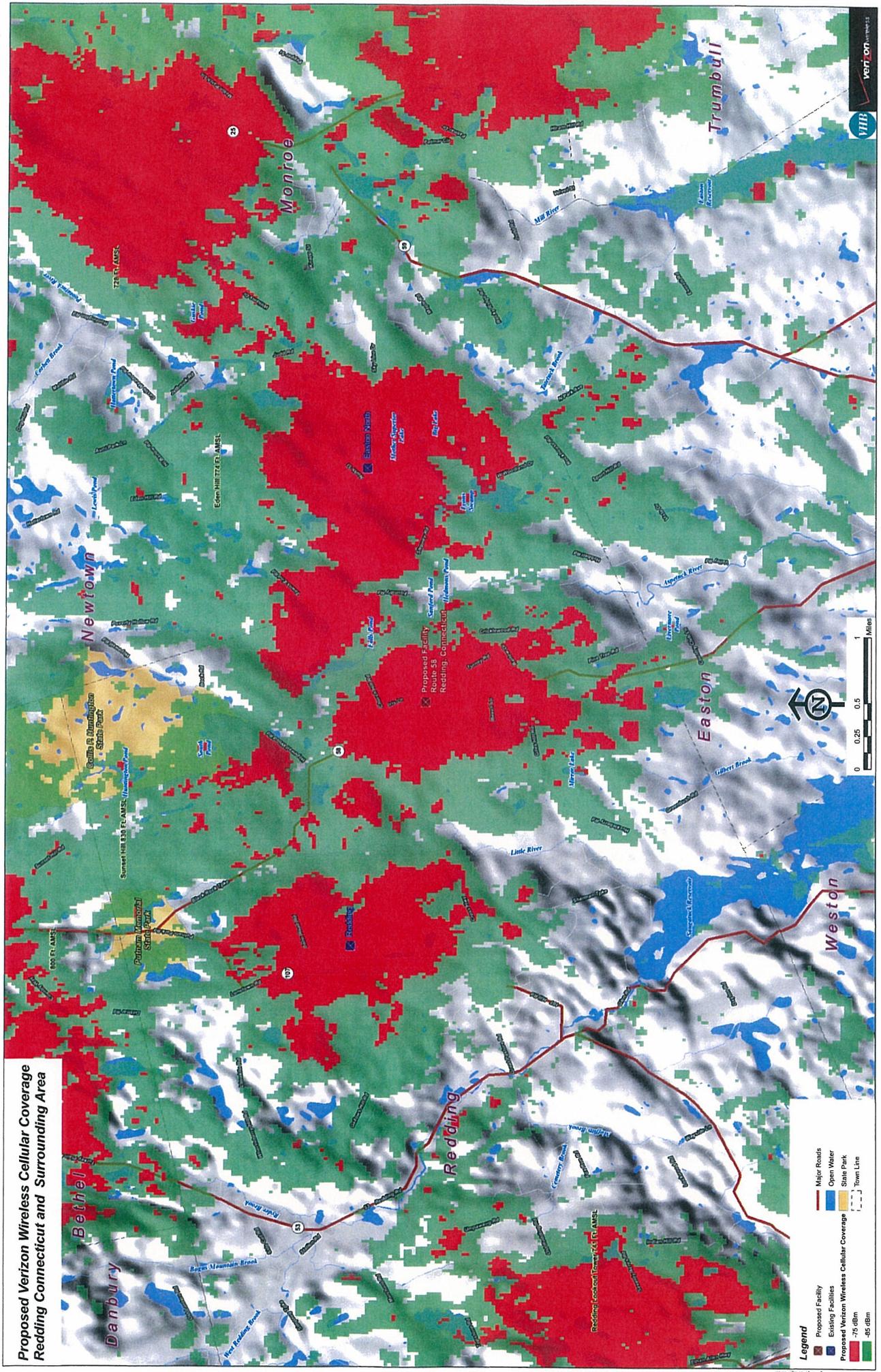


**Existing Verizon Wireless PCS Coverage  
Redding Connecticut and Surrounding Area**



- Legend**
- Major Roads
  - Open Water
  - State Park
  - Town Line
  - Proposed Facility
  - Existing Facilities
  - Existing Verizon Wireless PCS Coverage
  - 75 dBm
  - 85 dBm

**Proposed Verizon Wireless Cellular Coverage  
Redding Connecticut and Surrounding Area**

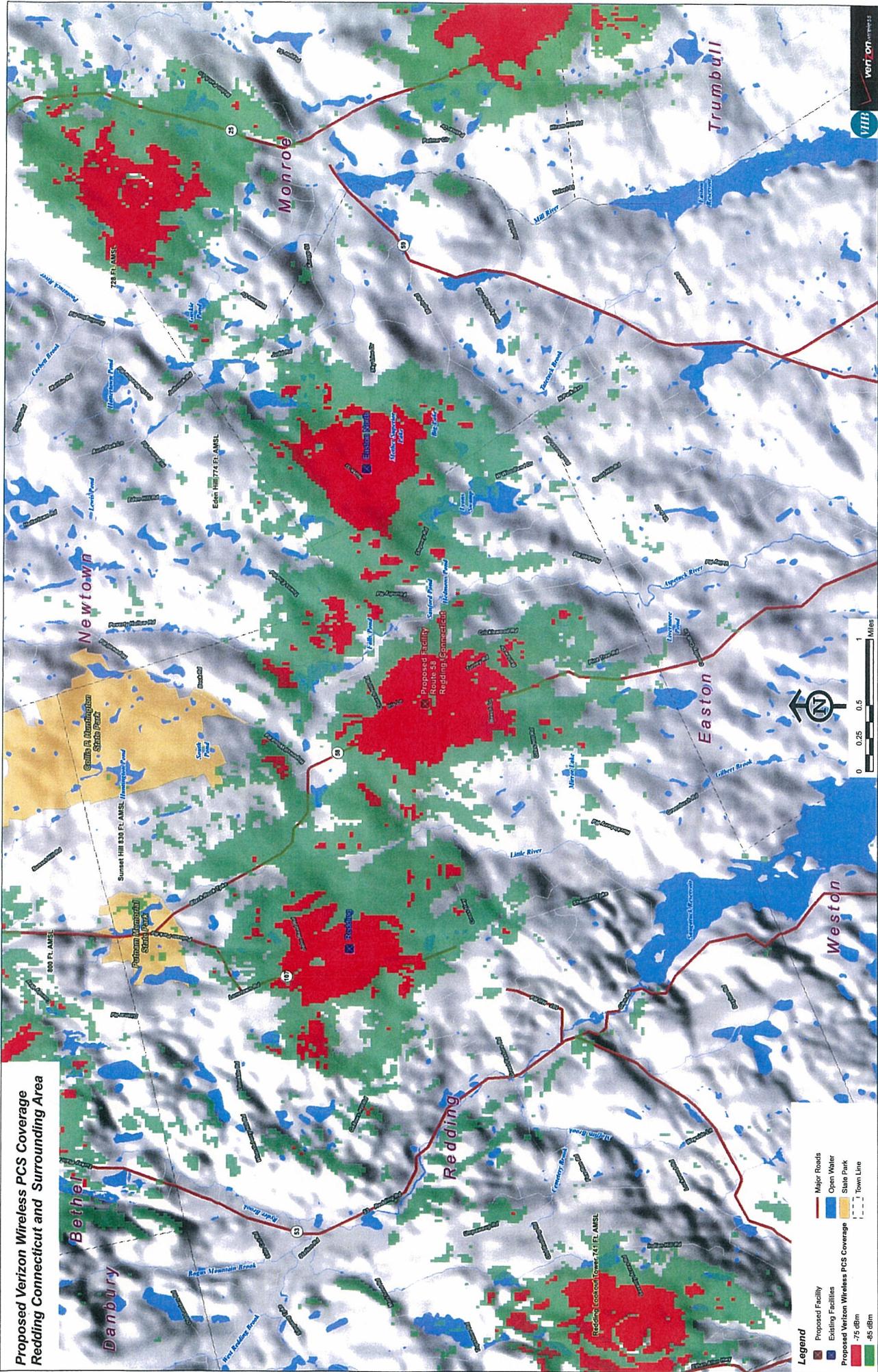


**Legend**

- Major Roads
- Open Water
- State Park
- Town Line
- Proposed Facility
- Existing Facilities
- Proposed Verizon Wireless Cellular Coverage
- 75 dBm
- 65 dBm

0 0.25 0.5 1 Miles

**Proposed Verizon Wireless PCS Coverage  
 Redding Connecticut and Surrounding Area**



**Legend**

- Proposed Facility
- Existing Facilities
- Proposed Verizon Wireless PCS Coverage
- 75 dBm
- 85 dBm
- Major Roads
- Open Water
- State Park
- Town Line

