

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE: :
 :
APPLICATION OF SBA TOWERS II, LLC FOR : DOCKET NO. 379
A CERTIFICATE OF ENVIRONMENTAL :
COMPATIBILITY AND PUBLIC NEED FOR :
THE CONSTRUCTION, MAINTENANCE AND :
OPERATION OF A TELECOMMUNICATIONS :
FACILITY AT 12 BURR ROAD, :
BLOOMFIELD, CONNECTICUT : MAY 19, 2009

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

On April 28, 2009, the Connecticut Siting Council (“Council”) issued Pre-Hearing Interrogatories to the Applicant, Cellco Partnership d/b/a Verizon Wireless (“Cellco”), relating to the above-captioned docket. Cellco has been granted intervenor status in this docket and expects to install antennas on the proposed tower, if approved, at the 117 foot level. For the purposes of this filing the proposed facility is referred to as Cellco’s “Bloomfield 2” cell site. Below are Cellco’s responses to the Council’s interrogatories.

Question No. 1

What are Verizon’s licensed operating frequencies in this part of the state?

Response

Cellco is licensed to operate in the cellular (850 MHz), personal communications service (“PCS”) (1900 MHz) and 700 MHz frequency bands throughout the State of Connecticut.

Question No. 2

What is the design signal strength for Verizon's system for in-vehicle coverage? For in-building coverage?

Response

Cellco's minimum coverage thresholds are -75 dBm for reliable in-building service and -85 dBm for reliable in-vehicle service.

Question No. 3

What is the existing signal strength in the area Verizon would serve from this proposed site?

Response

Cellco's existing signal strength in this area ranges from -86 dBm to -110 dBm at cellular frequencies; and from -86 dBm to -112 dBm at PCS frequencies. Cellco is not currently providing 700 MHz frequency service anywhere in Connecticut.

Question No. 4

What would be the total area Verizon could cover from the proposed site?

Response

Cellco's coverage footprint from the proposed cell site would be approximately 6.1 square miles at cellular frequencies and 4.6 square miles at PCS frequencies.

Question No. 5

What is the length of Verizon's coverage gap on Route 185 in the vicinity of the proposed facility?

Response

Cellco currently experiences a 1.27 mile gap at cellular frequencies and a 4.83 mile gap at

PCS frequencies along Route 185 in the vicinity of the proposed Bloomfield cell site.

Question No. 6

What is the distance Verizon could cover on State Route 185 from the proposed site?

Response

From the proposed Bloomfield cell site Cellco would provide coverage to a 3.7 mile portion of Route 185 at cellular frequencies and a 3.4 mile portion of Route 185 at PCS frequencies.

Question No. 7

Provide propagation maps, at the frequencies currently being used by Verizon, showing Verizon's existing wireless coverage in the vicinity of the proposed site, what its coverage(s) would be from the proposed site, and what would be the combined coverages of its existing sites and the proposed site.

Response

Attachment 1 includes plots showing coverage from Cellco's existing Bloomfield 3, University of Hartford, Bloomfield Blue Hills, Cottage Grove, West Hartford N, Talcott Mountain, Talcott 2, Tarriffville, Simsbury, West Hartford 3, Hartford NW, and Windsor S cell sites; stand alone coverage plots from the proposed Bloomfield 2 facility and composite plots showing coverage from Cellco's existing and proposed cell sites in the Bloomfield area.

Question No. 8

Identify, by address, sites with which Verizon's antennas at the proposed site would hand off signals – include type and height of structure and height of Verizon's antennas on structure and distance and direction from the proposed tower.

Response

The proposed Bloomfield 2 facility would interact with 6 of Cellco's adjacent cells sites.

1. Cellco's existing Bloomfield 3 cell site consists of antennas at the 109-foot level on the 140-foot monopole tower located at 785 Park Avenue in Bloomfield. This cell site is approximately 1.75 miles to the northeast of the proposed Bloomfield 2 facility.
2. Cellco's existing University of Hartford cell site consists of antennas at the 57-foot level on the roof of Auerbach Hall at the University of Hartford located at 200 Bloomfield Avenue in Hartford. This cell site is approximately 3.01 miles to the southeast of the proposed Bloomfield 2 facility.
3. Cellco's existing West Hartford N cell site consists of antennas at the 73-foot level on the roof of the building located at 345 Main Street in West Hartford. This cell site is approximately 2.43 miles to the south of the proposed Bloomfield 2 facility.
4. Cellco's existing Talcott Mountain cell site consists of antennas at the 55-foot level on the 60-foot lattice tower located at 2 Talcott Mountain Road in Bloomfield. This cell site is approximately 1.85 miles to the west of the proposed Bloomfield 2 facility.
5. Cellco's existing Simsbury cell site consists of antennas at the 140-foot level on the 150-foot lattice tower located at 1 Grist Mill Road in Simsbury. This cell site is approximately 4.25 miles to the northwest of the proposed Bloomfield 2 facility.
6. Cellco's existing Tariffville cell site consists of antennas at the 150-foot level on the 180-foot lattice tower located at 8 Hoskins Road in Bloomfield. This cell site is approximately 5.18 miles to the North of the proposed Bloomfield 2 facility.

Question No. 9

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

Response

PCS Antennas

Alpha Sector – 117 ft.

Antenna Type: LPA –
185063/12CF

Frequency: Tx: 1970-1990
MHz; Rx: 1890-1910 MHz

No. Channels: 3

ERP/Channel: 526.32 W Max

Beta Sector – 117 ft.

Antenna Type: LPA –
185063/12CF

Frequency: Tx: 1970-1990
MHz; Rx: 1890-1910 MHz

No. Channels: 3

ERP/Channel: 526.32 W Max

Gamma Sector – 117 ft.

Antenna Type: LPA –
185063/12CF

Frequency: Tx: 1970-1990
MHz; Rx: 1890-1910 MHz

No. Channels: 3

ERP/Channel: 526.32 W Max

Cellular Antennas

Alpha Sector – 117 ft.

Antenna Type: LPA-
80063/6CF

Frequency: Tx: 869-880,890-
891.5 MHz; Rx: 824-835,
845-846.5 MHz

No. Channels: 9

ERP/Channel: 425.77 W Max

Beta Sector – 117 ft.

Antenna Type: LPA-
80063/6CF

Frequency: Tx: 869-880,890-
891.5 MHz; Rx: 824-835,
845-846.5 MHz

No. Channels: 9

ERP/Channel: 425.77 W Max

Gamma Sector – 117 ft.

Antenna Type: LPA-
80063/6CF

Frequency: Tx: 869-880,890-
891.5 MHz; Rx: 824-835, 845-
846.5 MHz

No. Channels: 9

ERP/Channel: 425.77 W Max

700 MHz Antennas

Alpha Sector – 117 ft.

Antenna Type: BXA–
70063/6CF (1)

Frequency: Tx:746 – 757
MHz; Rx: 776-787 MHz

No. Channels: 1

ERP/Channel: 867.46 W Max

Beta Sector – 117 ft.

Antenna Type: BXA–
70063/6CF (1)

Frequency: Tx:746 – 757
MHz; Rx: 776-787 MHz

No. Channels: 1

ERP/Channel: 867.46 W Max

Gamma Sector – 117 ft.

Antenna Type: BXA–
70063/6CF (1)

Frequency: Tx:746 – 757
MHz; Rx: 776-787 MHz

No. Channels: 1

ERP/Channel: 867.46 W Max

Question No. 10

What is the minimum height at which Verizon could achieve its coverage objectives from the proposed site?

Response

The minimum height at which Cellco could achieve its coverage objectives from this site is 117' as proposed.

Question No. 11

Provide a propagation map showing what Verizon's coverages would be at 10 feet below its antennas' proposed heights at the proposed site.

Response

A composite coverage plot showing Cellco's coverage at the Bloomfield site at 107 feet is included in Attachment 2.

Question No. 12

What is the approximate cost of the antennas and related equipment that Verizon would install at the proposed facility?

Response

The total estimated cost for Cellco's equipment is approximately \$650,000.

Question No. 13

What is the size of the equipment shelter Verizon would use at this site?

Response

Cellco would install its standard 12' x 30' shelter at the proposed Bloomfield facility.

Question No. 14

What would Verizon use for back up power at this site?

Response

Cellco's back up power system relies first on a battery back-up system, then on its back-up generator. The battery system and back-up generator are located inside Cellco's equipment shelter. The generator will be maintained in a separate 10' x 12' generator room. The batteries are located in the main equipment area of the shelter.

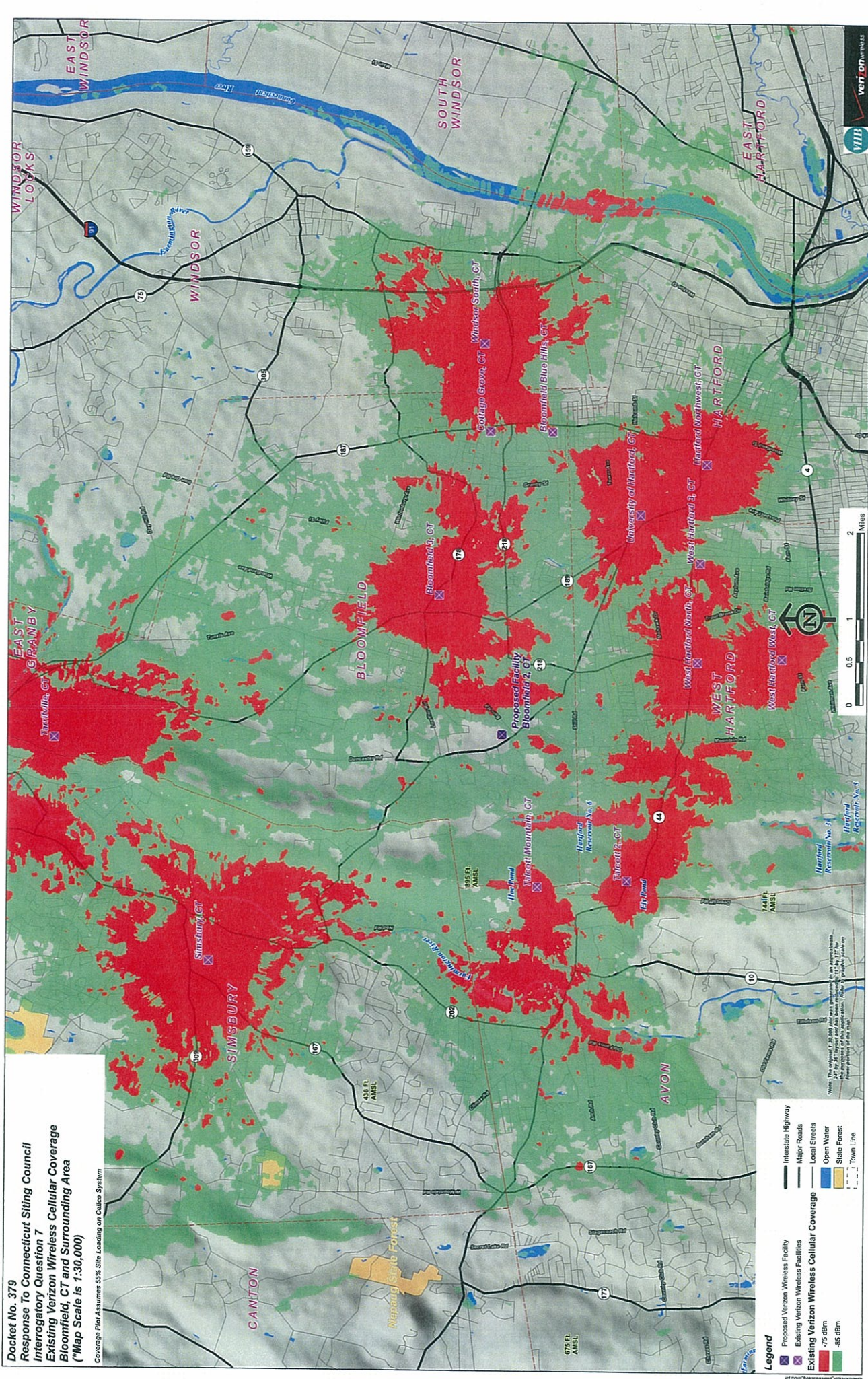
CERTIFICATE OF SERVICE

I hereby certify that on the 19th day of May, 2009, a copy of the foregoing was sent,
postage prepaid, to:

Carrie Larson, Esq.
Pullman & Comley, LLC
90 State House Square
Hartford, CT 06103-3702


Kenneth C. Baldwin

ATTACHMENT 1



Docket No. 379
Response To Connecticut Siting Council
Interrogatory Question 7
Existing Verizon Wireless Cellular Coverage
Bloomfield, CT and Surrounding Area
 (*Map Scale is 1:30,000)

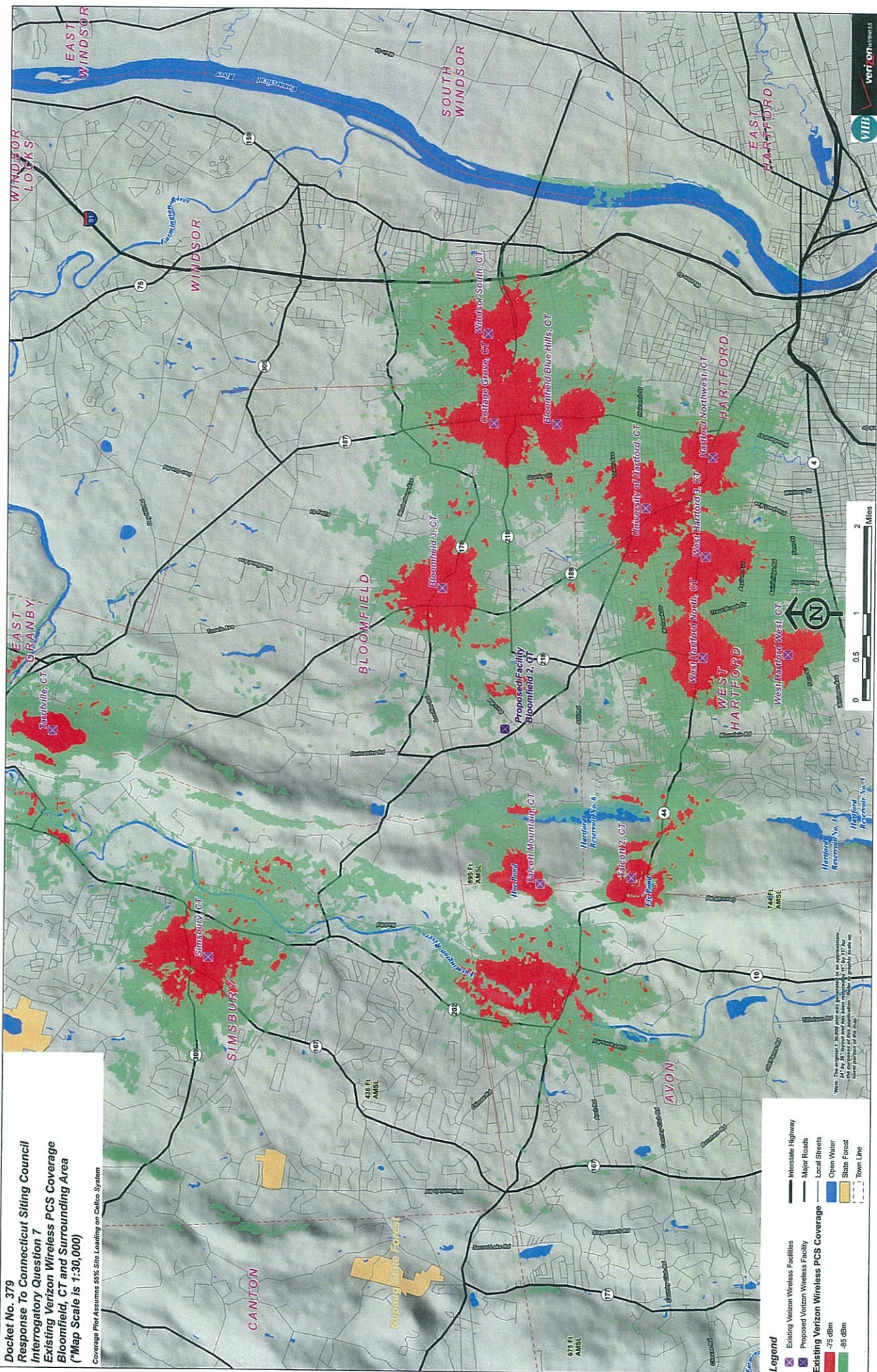
Coverage Plot Assumes 55% Site Loading on Celico System

- Legend**
- Proposed Verizon Wireless Facility
 - Existing Verizon Wireless Facility
 - Existing Verizon Wireless Coverage
 - Existing Verizon Wireless Cellular Coverage
 - 25 dBm
 - 45 dBm
 - Interstate Highway
 - Major Roads
 - Local Streets
 - Open Water
 - State Forest
 - Town Line

*Note: The original 1:30,000 scale map was prepared by an independent third party. The map scale is 1:30,000. The map scale is 1:30,000. The map scale is 1:30,000.



verizon.com



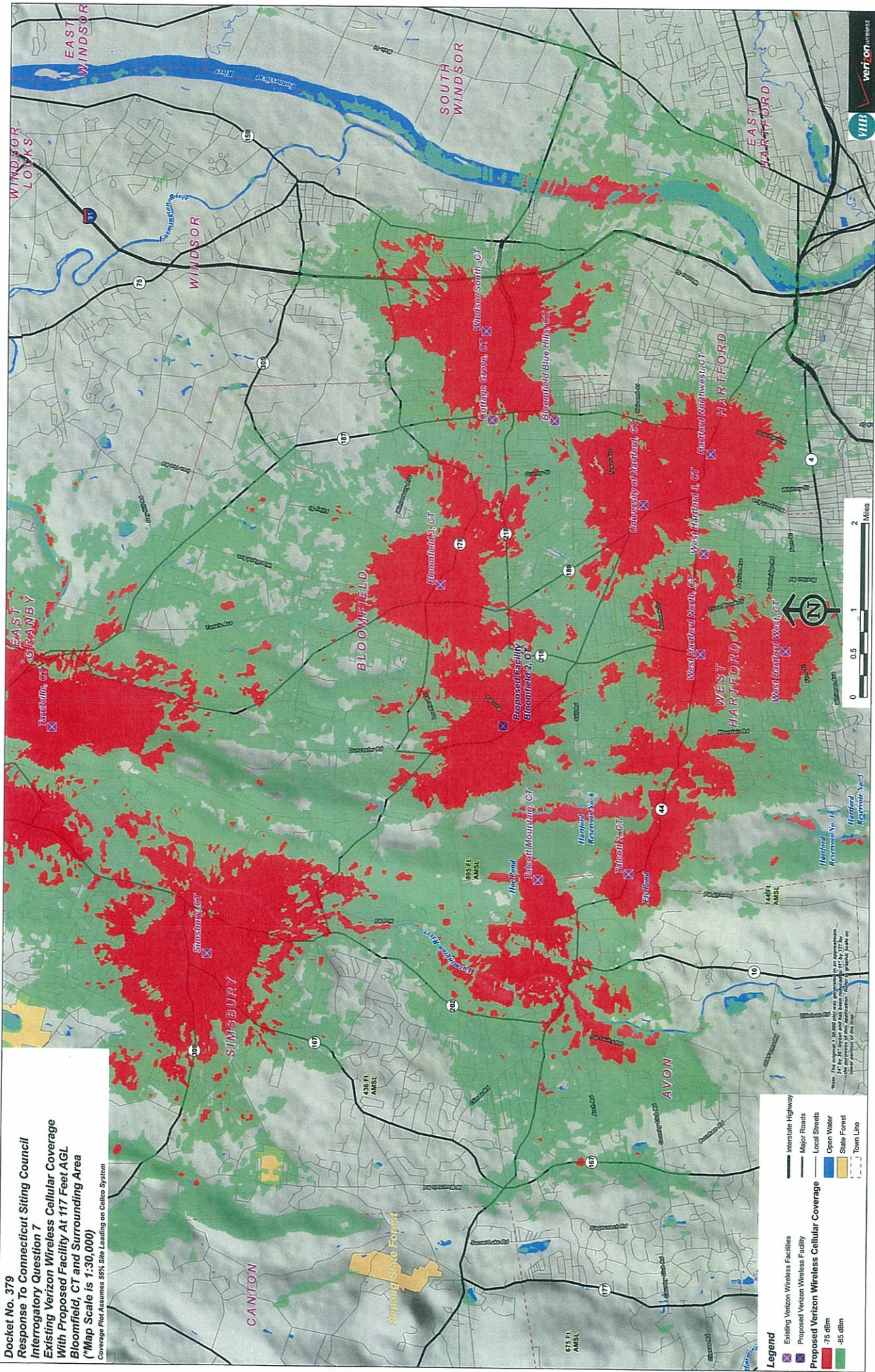
Docket No. 379
 Response To Connecticut Siting Council
 Interrogatory Question 7
 Existing Verizon Wireless PCS Coverage
 Bloomfield, CT and Surrounding Area
 (*Map Scale is 1:30,000)

Coverage Plot Assumes 55% Site Loading on Colco System

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

Note: The original 1:30,000 map was prepared to an approximate 1:30,000 scale. The 1:30,000 map was prepared to an approximate 1:30,000 scale. The 1:30,000 map was prepared to an approximate 1:30,000 scale.





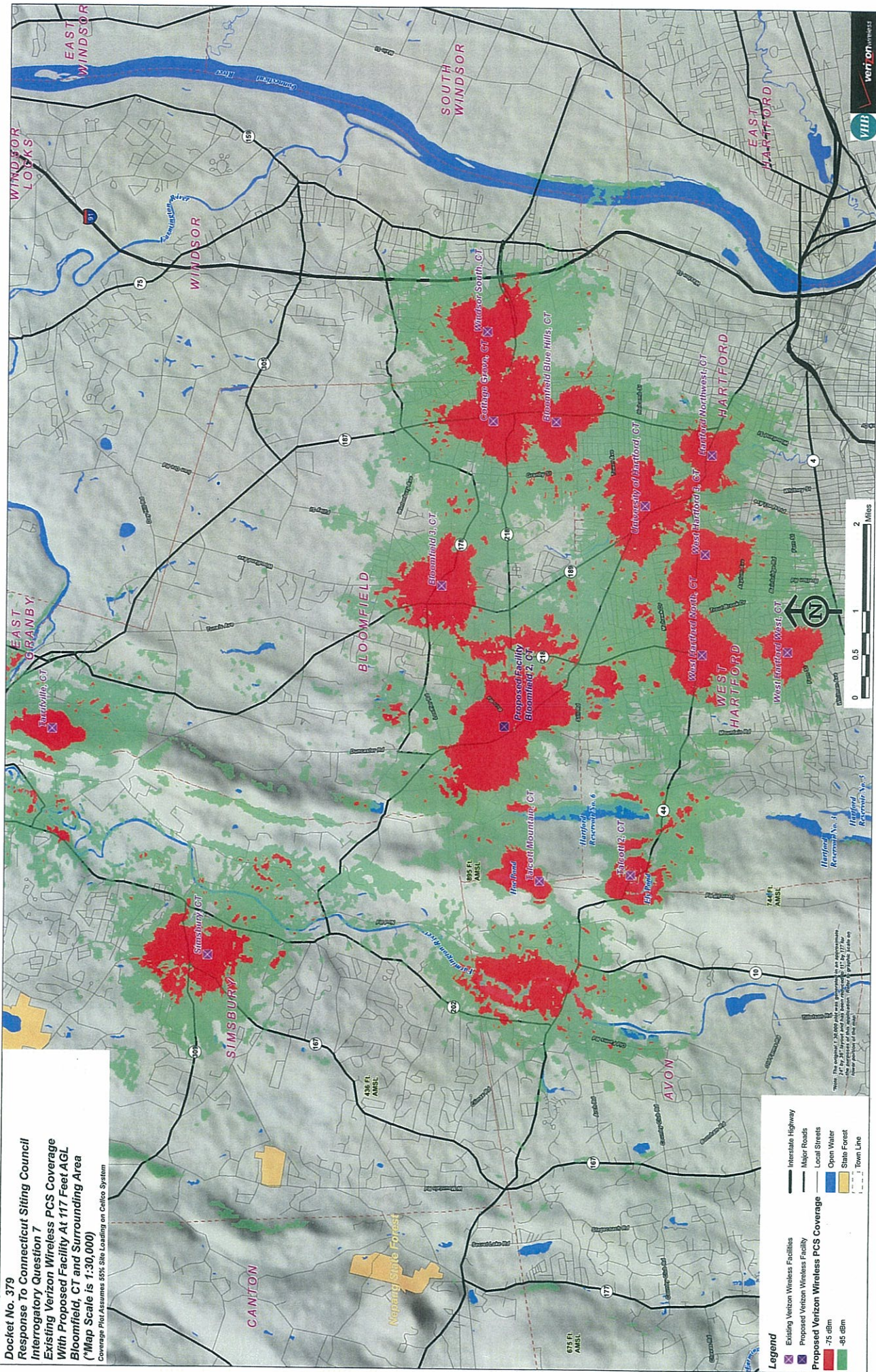
Docket No. 379
 Response To Connecticut Siting Council
 Interrogatory Question 7
 Existing Verizon Wireless Cellular Coverage
 With Proposed Facility At 117 Feet AGL
 Bloomfield, CT and Surrounding Area
 (Map Scale is 1:30,000)

Coverage Plot Assumes 55% Site Loading on Cellular System

- Legend**
- Existing Verizon Wireless Facilities
 - Proposed Verizon Wireless Facility
 - Proposed Verizon Wireless Cellular Coverage
 - 75 dBm
 - 45 dBm
 - Interstate Highway
 - Major Roads
 - Local Streets
 - Open Water
 - State Forest
 - Town Line

Note: The original 1:30,000 scale map was prepared on an approximately 1:25,000 scale. The map was then scaled to 1:30,000 for the purpose of this map. All distances are in feet unless otherwise noted.



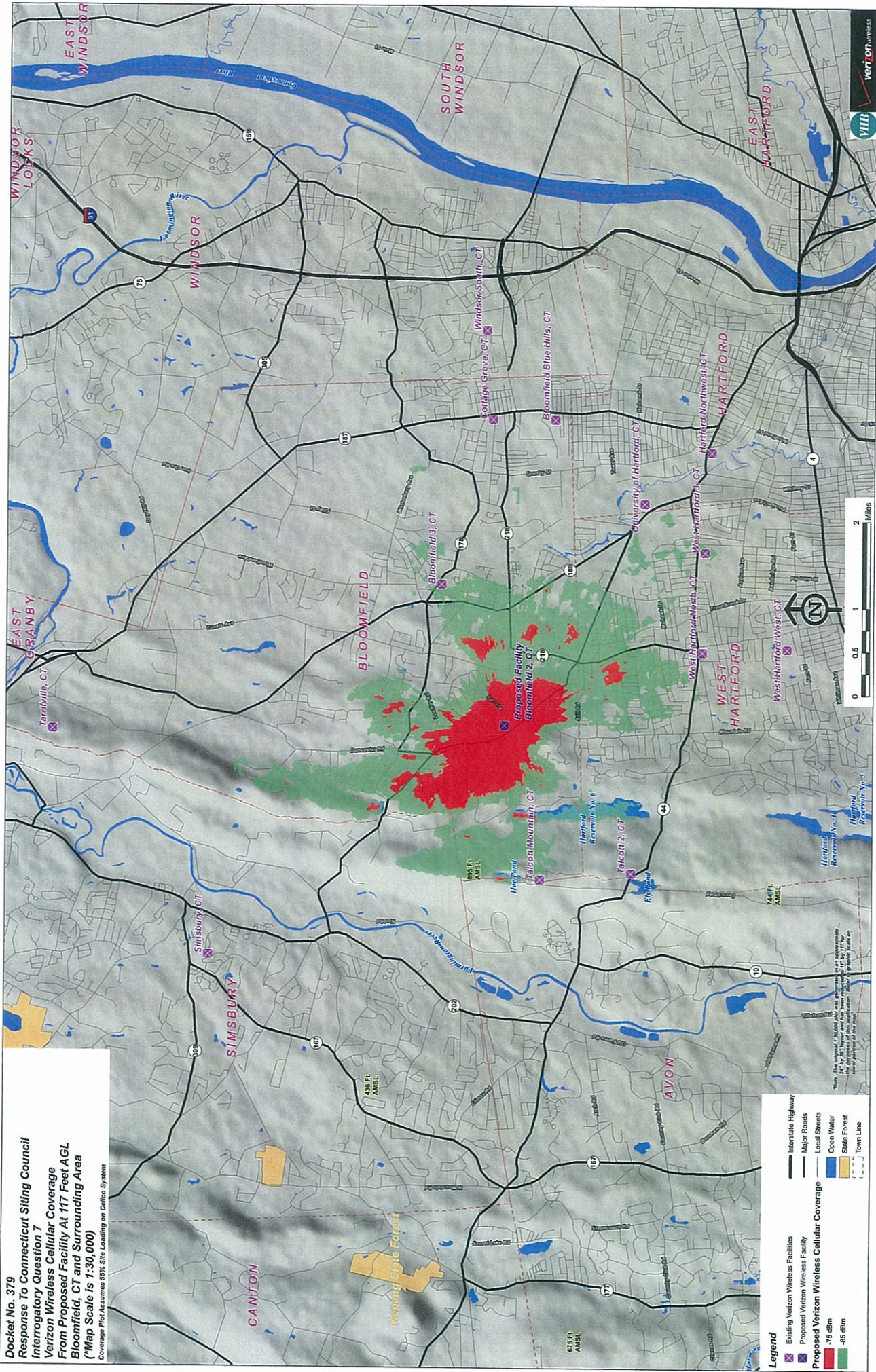


Docket No. 379
Response To Connecticut Siting Council
Interrogatory Question 7
Existing Verizon Wireless PCS Coverage
With Proposed Facility At 117 Feet AGL
Bloomfield, CT and Surrounding Area
(*Map Scale is 1:30,000)
 Coverage Plot Assumes 50% Site Loading on Cellular System

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

Note: The original 1,300,000 AMSL was interpreted as an approximation. The 117 feet AGL and this lower elevation were used to determine the near-facility of the site.



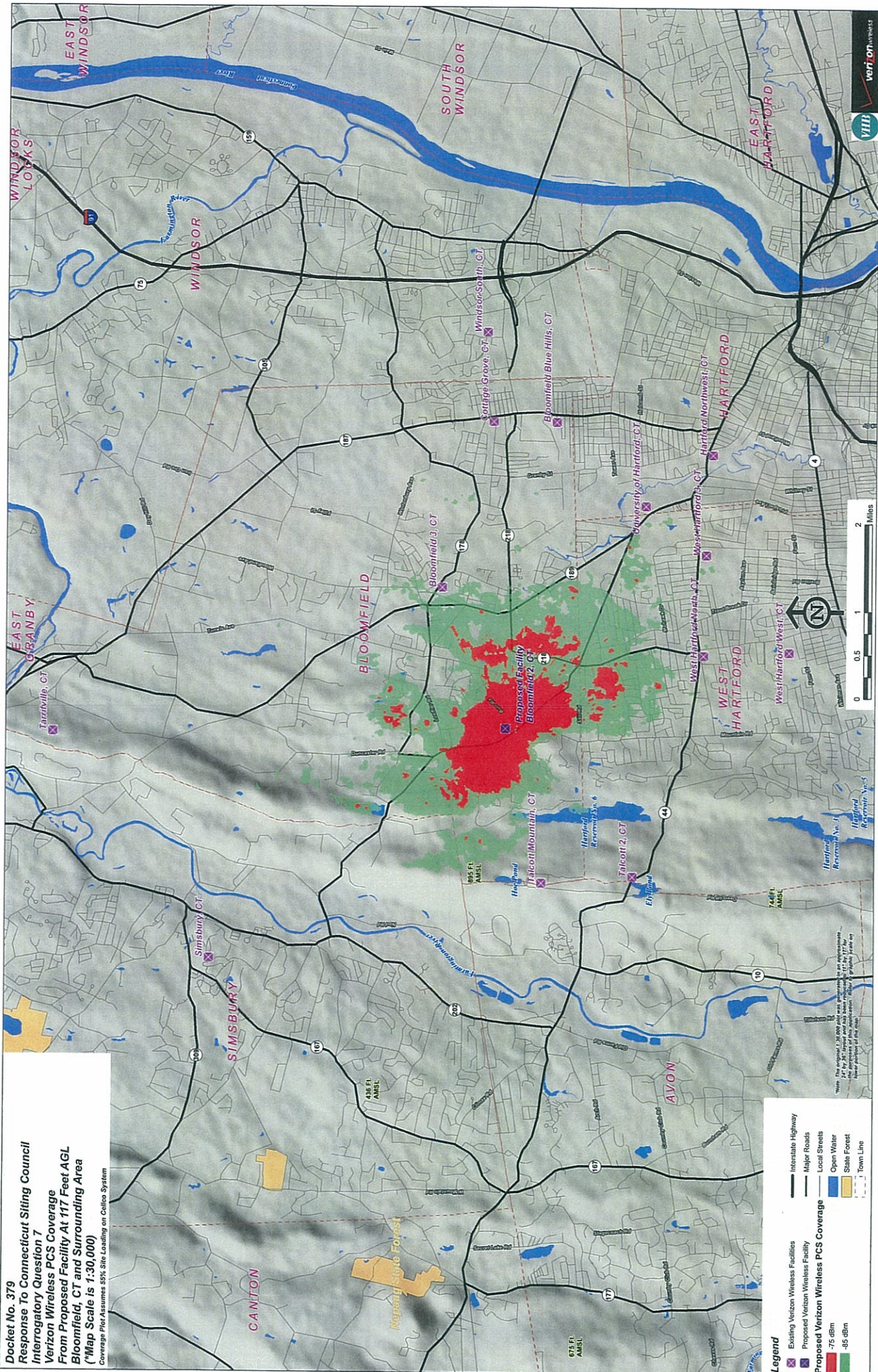


Docket No. 379
 Response To Connecticut Siting Council
 Interrogatory Question 7
 Verizon Wireless Cellular Coverage
 From Proposed Facility At 117 Feet AGL
 Bloomfield, CT and Surrounding Area
 (*Map Scale is 1:30,000)
 Coverage Plot Assumes 55% Site Loading on Celco System

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

Note: The original 1,300,000 plot was generated as an approximation. All plot data is for informational purposes only. The plot is not a legal document and should not be used for any legal purposes.





Docket No. 379
 Response To Connecticut Siting Council
 Interrogatory Question 7
 Verizon Wireless PCS Coverage
 From Proposed Facility At 117 Feet AGL
 Bloomfield, CT and Surrounding Area
 (*Map Scale is 1:30,000)
 Coverage Plot Assumes 50% Site Loading on Cellular System

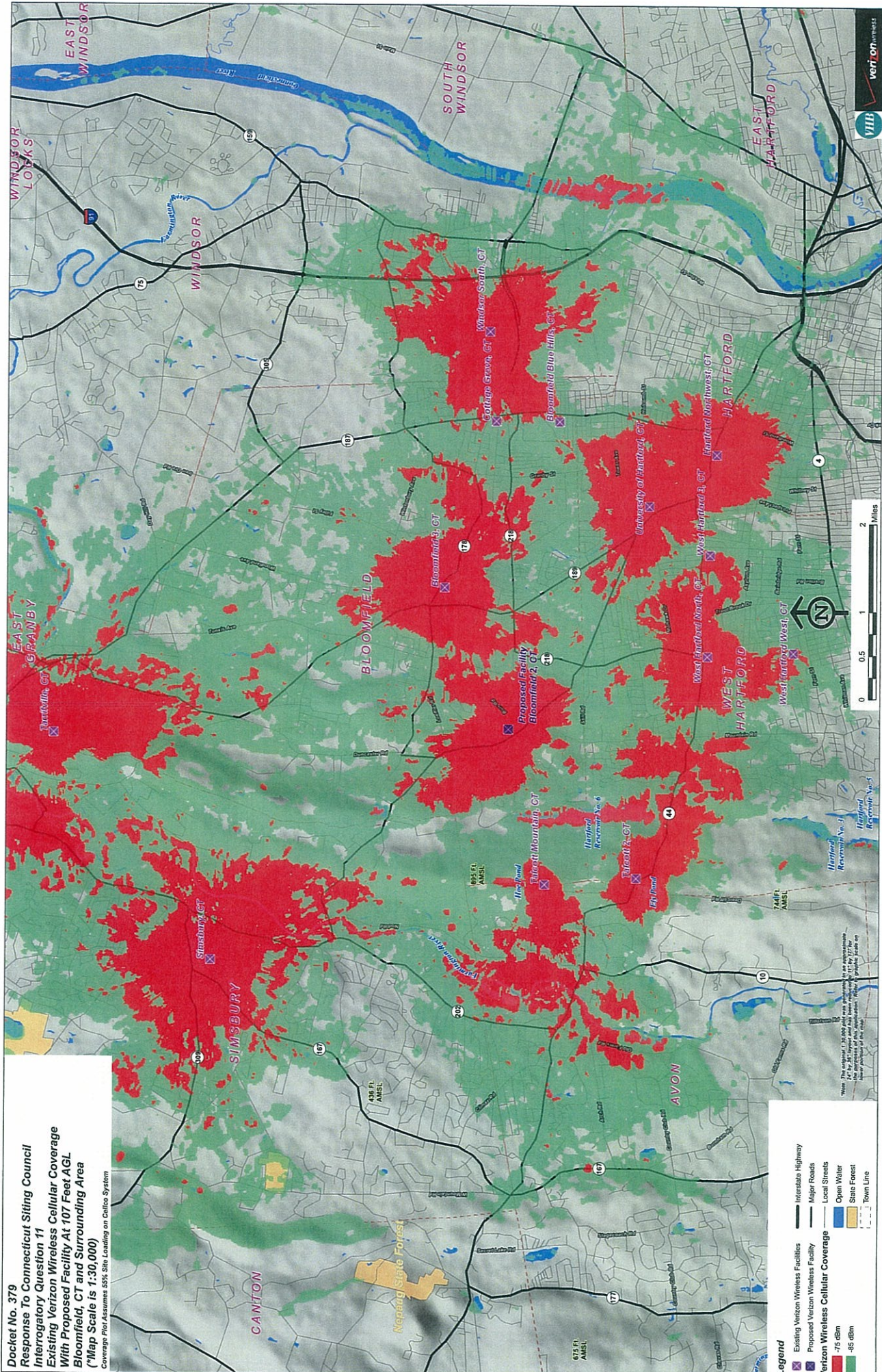
- Legend**
- Existing Verizon Wireless Facilities
 - Proposed Verizon Wireless Facility
 - Proposed Verizon Wireless PCS Coverage
 - 75 dBm
 - 85 dBm
 - Interstate Highway
 - Major Roads
 - Local Streets
 - Open Water
 - State Forest
 - Town Line

Note: The original 1:30,000 scale was determined to be appropriate for the 24 by 36" format and this scale was used for the 11 by 17" map. Minor portions of the map were omitted for space.



ATTACHMENT 2

Docket No. 379
 Response To Connecticut Siting Council
 Interrogatory Question 11
 Existing Verizon Wireless Cellular Coverage
 With Proposed Facility At 107 Feet AGL
 Bloomfield, CT and Surrounding Area
 ("Map Scale is 1:30,000")
 Coverage Plot Assumes 59% Site Loading on Cellular System



Legend

- Interstate Highway
- Major Roads
- Local Streets
- Open Water
- State Forest
- Town Line

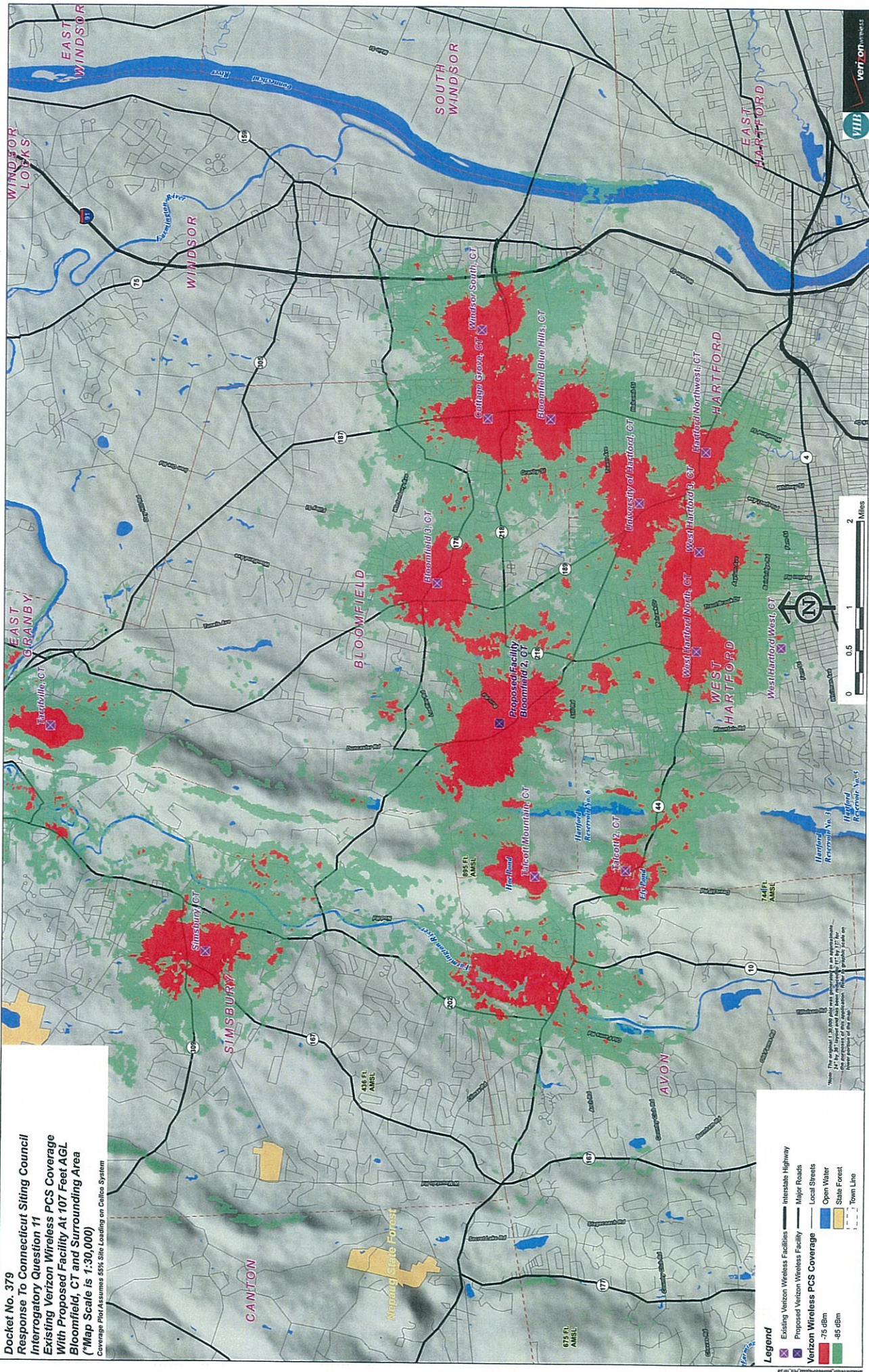
Verizon Wireless Cellular Coverage

- 75 dBm
- 85 dBm

Existing Verizon Wireless Facilities

- Existing Verizon Wireless Facility
- Proposed Verizon Wireless Facility

Note: The original 1:30,000 plot was prepared on an appropriate scale for the purpose of this document. Refer to the scale bar on the back of this map.



Docket No. 379
 Response To Connecticut Siting Council
 Interrogatory Question 11
 Existing Verizon Wireless PCS Coverage
 With Proposed Facility At 107 Feet AGL
 Bloomfield, CT and Surrounding Area
 (*Map Scale is 1:30,000)

Coverage Plot Assumes 55% Site Loading on Cellular System

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

*Note: The original 1:30,000 plot was generated by an approved software application. The accuracy of this application is not guaranteed. Refer to the applicable Federal Register notice for more information.

