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April 25, 2008

TO: Parties and Intervenors

FROM: S. Derek Phelps, Executive Director

RE: **DOCKET NO. 354** - Cellco Partnership d/b/a Verizon Wireless application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a telecommunications facility located off of Old Baird Road, Watertown, Connecticut.



As stated at the hearing in Watertown on February 26, 2008, after the Council issues its draft findings of fact, parties and intervenors may identify errors or inconsistencies between the Council's draft findings of fact and the record; however, no new information, evidence, argument, or reply briefs will be considered by the Council.

Parties and Intervenors may file written comments with the Connecticut Siting Council on the Draft Findings of Fact issued on this docket by May 2, 2008.

SDP/cm

Enclosure

<p>DOCKET NO. 354 - Cellco Partnership d/b/a Verizon Wireless application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a telecommunications facility at one of two locations off of Old Baird Road in Watertown, Connecticut.</p>	<p>} Connecticut } Siting } Council</p>
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April 7, 2008

DRAFT

Findings of Fact

Introduction

1. Pursuant to Chapter 277a, Sections 16-50g et seq. of the Connecticut General Statutes (CGS), as amended, and Section 16-50j-1 et seq. of the Regulations of Connecticut State Agencies (RCSA), Cellco Partnership d/b/a Verizon Wireless (Cellco) applied to the Connecticut Siting Council (Council) on November 20, 2007 for the construction, operation, and maintenance of a telecommunications facility at one of two locations off of Old Baird Road in the Town of Watertown, Connecticut. (Cellco 1, p. 1)
2. Cellco is a Delaware Partnership with an administrative office located at 99 East River Drive, East Hartford, Connecticut. Cellco is licensed by the Federal Communications Commission (FCC) to operate a wireless telecommunications system in Connecticut. The operation of wireless telecommunications systems and related activities are Cellco's sole business in Connecticut. (Cellco 1, p. 4)
3. The party in this proceeding is the applicant. (Transcript, February 26, 2008, 4:00 p.m. [Tr. 1], p. 5)
4. Cellco's proposed facility would provide coverage along Route 6 and local roads in the westerly portion of Watertown and portions of northeastern Woodbury. (Cellco 1, pp. 1-2)
5. Pursuant to CGS § 16-50m, the Council, after giving due notice thereof, held a public hearing on February 26, 2008, beginning at 4:00 p.m. and continuing at 7:00 p.m. in the auditorium of Watertown High School, 324 French Street, Watertown, Connecticut. (Tr. 1, p. 2 ff.)
6. The Council and its staff conducted an inspection of the proposed sites on February 26, 2008, beginning at 3:00 p.m. The applicant flew balloons from 7:15 a.m. until 5:00 p.m. at the proposed sites to simulate the heights of the proposed towers. A red balloon was flown at the location designated as Site A, and a black balloon was flown at the location designated as Site B. Winds were calm, but visibility was limited due to overcast skies. (Tr. 1, p. 15)
7. Pursuant to CGS § 16-50(b), Cellco published notice of its intent to submit this application on November 15 and 16, 2007 in the Waterbury Republican-American. (Cellco 1, p. 6; Republican-American Affidavit of Publication, dated November 19, 2007)

8. In accordance with CGS § 16-507(b), Cellco sent notices of its intent to file an application with the Council to each person appearing of record as owner of property abutting the properties on which each site is located. (Cellco 1, p. 6; Attachment 6)
9. Cellco received return receipts from all but three abutting property owners. Cellco sent notices by regular mail to each of these three owners. (Cellco 4, Response 6)
10. Pursuant to CGS § 16-507 (b), Cellco provided notice to all federal, state and local officials and agencies listed therein. (Cellco 1, p. 5; Attachment 4)
11. Cellco posted signs at both of the properties on which its alternative sites were proposed on February 8, 2008. The signs measured four feet by six feet and included information about Cellco's pending application. The sign for Site B was moved to a more visible location on February 21. (Tr. 1, pp. 15-16)

State Agency Comment

12. Pursuant to CGS § 16-507, the Council solicited comments on Cellco's application from the following state departments and agencies: Department of Environmental Protection, Department of Public Health, Council on Environmental Quality, Department of Public Utility Control, Office of Policy and Management, Department of Economic and Community Development, and the Department of Transportation. The Council's letters requesting comments were sent on January 23, 2008. (CSC Hearing Package dated January 23, 2008)
13. The Connecticut Department of Public Health's (DPH) Drinking Water Section responded to the Council's solicitation with no comments. (DPH Memorandum dated February 7, 2008)
14. The Connecticut Department of Transportation (ConnDOT) responded to the Council's solicitation with no comments. (ConnDOT Letter dated February 19, 2008)
15. Other than DPH and ConnDOT, no other state agency responded to the Council's solicitation. (Record)

Municipal Consultation

16. Cellco representatives met with Watertown Town Manager Charles Frigon and Public Works Director Roy Cavanaugh to begin the sixty day municipal consultation process on May 24, 2007. Messrs. Frigon and Cavanaugh were given copies of technical information summarizing Cellco's plans to establish a new telecommunications facility in Watertown. (Cellco 1, p. 19)
17. During the May 24, 2007 meeting, Cellco became aware of the Town of Watertown's plans to develop a new highway department garage on town property to the north of the Site B location. Cellco shifted the location of Site B approximately 100 feet to the south to avoid potential conflicts with the town's plans. (Cellco 1, p. 19)

18. Because Site B is within 2,500 feet of the Watertown/Woodbury town line, Cellco provided copies of its technical information to the Woodbury First Selectman Richard Crane. (Cellco 1, pp. 19-20)
19. The Town of Watertown prefers Cellco's proposed Site B because it would be better suited for the town's long-range plans to extend Old Baird Road as a two-way, paved connector between Route 6 and Hamilton Avenue and the municipal property on which Site B is located. (Tr. 1, p. 7)
20. The Town of Watertown is in the process of upgrading its communications system and would be interested in placing antennas on the proposed tower. (Tr. 1, p. 9)

Public Need for Service

21. In its Report and Order issued May 4, 1981 in FCC Docket No. 79-318, the FCC recognized the public need for technical improvement, wide-area coverage, high quality service and a degree of competition in mobile telephone service. (Cellco 1, p. 6)
22. The federal Telecommunications Act of 1996 (Act), a federal law passed by the United States Congress, recognized a nationwide public need for high-quality wireless telecommunication services. The Act also promoted competition among wireless service providers, sought to reduce regulation in order to foster lower prices for consumers, and encouraged the rapid deployment of new telecommunications technologies. (Cellco 1, pp. 6-7)
23. Cellco's proposed facility off of Old Baird Road would be part of its expanding wireless telecommunications network envisioned by the Act. (Cellco 1, p. 6)
24. Cellco holds a license issued by the FCC to provide Personal Communications Service (PCS) in Litchfield County. (Cellco 1, p. 8; Attachment 7)
25. Cellco's proposed Watertown facility would not enlarge its FCC-authorized service area. (Cellco 1, p. 8)
26. In issuing cellular licenses, the federal government has preempted the determination of public need for cellular service by the states, and has established design standards to ensure technical integrity and nationwide compatibility among all systems. (Council Administrative Notice, Telecommunications Act of 1996)
27. The Telecommunications Act of 1996 prohibits local and state bodies from discriminating among providers of functionally equivalent services. (Council Administrative Notice, Telecommunications Act of 1996)

28. The Telecommunications Act of 1996 prohibits any state or local entity from regulating telecommunications towers on the basis of the environmental effects of radio frequency emissions to the extent that such towers and equipment comply with FCC's regulations concerning such emissions. This Act also blocks the Council from prohibiting or acting with the effect of prohibiting the provision of personal wireless service. (Council Administrative Notice, Telecommunications Act of 1996)
29. In an effort to ensure the benefits of wireless technologies to all Americans, Congress enacted the Wireless Communications and Public Safety Act of 1999 (the 911 Act). The purpose of this legislation was to promote public safety through the deployment of a seamless, nationwide emergency communications infrastructure that includes wireless communications services. (Council Administrative Notice, Wireless Communications and Public Safety Act of 1999)
30. Cellco's antennas at this location would comply with the requirements of the 911 Act. (Cellco 4, Response 2)
31. Cellco maintains that there is no equally effective technological alternative that could provide the same service as the facility being proposed. (Cellco 1, p. 10)
32. In response to queries sent by Cellco to each of the other wireless carriers licensed to operate in the area that would be served by the proposed facility, T-Mobile indicated that it had a need for a facility in this area but did not have a budget for a cell site at the time. (Cellco 4, Response 15)

Site Selection

33. The search ring for this site was established in August, 2003. The ring was approximately three-quarters mile in diameter and was centered on a hill approximately 1,500 feet north of Route 6. (Cellco 4, Response 14, Tab 2)
34. Cellco has antennas mounted on three existing communications facilities located within four miles of its proposed site in Watertown. These facilities, however, cannot resolve Cellco's coverage problems along Route 6 in Watertown and Woodbury. The existing facilities are listed below:

Facility Owner	Facility Type	Location	Cellco's Antenna Ht.
Sprint	Monopole - 160'	1440 North Main Street, Woodbury	150'
Town of Watertown	Water Tank	Georgetown Drive, Watertown	110'
Town of Watertown	Water Tank	Buckingham Street, Watertown	125'

(Cellco 1, pp. 10-11; Attachment 10)

35. After beginning its site search, Cellco became aware of an option agreement between AT&T Wireless and the Town of Watertown for use of town property in the general vicinity of Cellco's currently proposed sites. AT&T did not pursue development of its optioned property and its lease agreement with the town expired. (Cellco 1, Attachment 10, p. 2)
36. In 2005, Cellco approached the town about leasing property for a cell site. The town agreed to the use of its property and began lease negotiations with Cellco. The town and Cellco entered into a lease agreement in April 2007 for the Site A property. (Cellco 1, Attachment 10, p. 2)
37. Cellco asked the town if it would consider leasing additional property for an alternate site. The town agreed to lease a parcel adjacent to its existing Animal Shelter and Solid Waste Transfer Station. This second lease parcel is Cellco's Site B. (Cellco 1, Attachment 10, p. 2)

Site Description

Site A

38. Cellco's Site A would be located on a .24 acre parcel on the east side of Old Baird Road approximately 1,500 feet northwest of Hamilton Avenue and Old Baird Road. The parcel is owned by the Town of Watertown. (Cellco 1, Attachment 1, pp. 1-2)(See Figure 1)
39. The Site A parcel is zoned R-70 and is surrounded by large tracts of undeveloped and wooded land to the north, low density residential areas to the east, agricultural uses to the west, and municipal uses (Highway Department facility, Solid Waste Transfer Station, and Animal Shelter) to the south. (Cellco 1, p. 17)
40. Cellco's proposed facility is located in the southwesterly portion of the town-owned parcel. On this parcel, Cellco would lease a 10,409 square foot area that would measure approximately 100 feet by 100 feet. (Cellco 1, p. 2; Attachment 1)
41. Cellco would erect a 150-foot steel monopole tower inside an irregularly-shaped equipment compound that would measure approximately 35 feet by 89 feet and would comprise 3,382 square feet. The compound would be enclosed by an eight-foot high chain link fence topped by three strands of barbed wire. (Cellco 1, p. 2; Attachment 1) (See Figure 3)
42. Cellco would use a 12-foot by 30-foot shelter to house its radio equipment and a propane-fueled generator for back-up power. (Cellco 1, p. 2; Attachment 1)
43. Cellco's compound would include a 1,000 gallon propane fuel storage tank. (Cellco 1, p. 12)
44. The proposed tower would be located at 41° 35' 38.17" N latitude and 73° 08' 27.67" W longitude. Its elevation at ground level would be approximately 774 feet above mean sea level (amsl). (Cellco 1, Attachment 1)

45. Cellco's tower would be designed in accordance with the specifications of the Electronic Industries Association Standard EIA/TIA-222-F "Structural Standards for Steel Antenna Towers and Antenna Support Structures." (Cellco 1, Attachment 1, p. 6)
46. Cellco would install twelve panel antennas on a low profile platform at a centerline height of 150 feet above ground level (agl). The tops of the antennas would extend to 153 feet AGL. (Cellco 1, p. 2)
47. The tower would be designed to accommodate three additional wireless carriers and emergency services antennas of the Town of Watertown. (Cellco 4, Response 3)
48. Development of Site A would require 20 cubic yards of fill. No cut would be required. (Cellco 4, Response 12)
49. Vehicular access to the site would extend from Old Baird Road approximately 20 feet over a new gravel driveway. (Cellco 1, p. 2)
50. Utilities would be extended above ground approximately 50 feet to the facility from an existing CL&P utility pole (#G4929). (Cellco 1, Attachment 1, Drawing SC-1; Cellco 4, Response 25)
51. Blasting may be necessary for the construction of Site A due to large rock outcroppings at this location. (Tr. 1, p. 19)
52. The setback radius of the tower proposed for Site A would extend approximately 120 feet beyond the property's front boundary and approximately 65 feet beyond the property's rear boundary. (Cellco 4, Response 26; Tr. 1, p. 19)
53. Cellco could have the tower designed with a yield point to effectively reduce the potential size of the setback radius. (Tr. 1, p. 19)
54. There is one residence within 1,000 feet of Site A. (Cellco 1, p. 14)
55. The nearest residence to Site A is 830 feet to the east at 480 Hamilton Avenue and is owned by Sandra and Robert Samojedny. (Cellco 4, Response 21)
56. The estimated cost of the facility, including antennas and radio equipment, is:

Cell site radio equipment	\$450,000
Tower, coax, and antennas costs	50,000
Power systems costs	40,000
Equipment building costs	50,000
<u>Miscellaneous costs</u>	<u>33,000</u>
Total	\$623,000

(Cellco 1, p. 21)

Site B

57. Cellco's Site B would be located in the southwesterly portion of an undeveloped 13.7 acre parcel on the west side of Old Baird Road approximately 1,200 feet northwest of the intersection of Hamilton Avenue and Old Baird Road. The parcel is owned by the Town of Watertown. (Cellco 1, p. i; Attachment 2, pp. 1-2)(See Figure 1)
58. The Site B parcel is zoned R-70 and is surrounded by large tracts of undeveloped and wooded land to the north, low density residential areas to the east, agricultural uses to the west, and municipal uses (Highway Department facility, Solid Waste Transfer Station, and Animal Shelter) to the south. The town is planning to construct a new Highway Department garage to the north and west of Site B's location. (Cellco 1, p. 17)
59. Cellco would lease a 10,000 square foot area measuring 100 feet by 100 feet. (Cellco 1, p. 3; Attachment 2)
60. Within this area, Cellco would erect a 160-foot steel monopole tower inside an equipment compound measuring 60 feet by 50 feet. The compound would be enclosed by an eight-foot high chain link fence topped by three strands of barbed wire. (Cellco 1, p. 3; Attachment 2) (See Figure 4)
61. Cellco would use a 12-foot by 30-foot shelter to house its radio equipment and a propane-fueled generator for back-up power. (Cellco 1, p. 3; Attachment 2)
62. Cellco's compound would include a 1,000 gallon propane fuel storage tank. (Cellco 1, p. 12)
63. Cellco would use propane to fuel its generator at this location in order to be able to distinguish between its fuel source and the town's fuel source in the event of an unintended release. (Cellco 4, Response 20)
64. The proposed tower would be located at 41° 35' 37.06" N latitude and 73° 08' 35.31" W longitude. Its elevation at ground level would be approximately 759 feet amsl. (Cellco 1, Attachment 2)
65. Cellco's tower would be designed in accordance with the specifications of the Electronic Industries Association Standard EIA/TIA-222-F "Structural Standards for Steel Antenna Towers and Antenna Support Structures." (Cellco 1, Attachment 2, p. 6)
66. Cellco would install twelve panel antennas on a low profile platform at a centerline height of 160 feet AGL. The tops of the antennas would extend to 163 feet AGL. (Cellco 1, p. 3)
67. The tower would be designed to accommodate three additional wireless carriers and emergency services antennas of the Town of Watertown. (Cellco 4, Response 3)
68. Development of Site B would require 5.2 cubic yards of fill and 8.3 cubic yards of cut. (Cellco 4, Response 12)

69. Vehicular access to the site would extend from Old Baird Road, through an adjacent town-owned parcel, along an existing paved driveway servicing the town's highway department facility, solid waste transfer station, and animal shelter for a distance of approximately 460 feet, then along a new gravel driveway for an additional distance of approximately 235 feet. (Cellco 1, p. 3)
70. Utilities would be extended underground approximately 250 feet to the facility from an existing CL&P utility pole (#3272). (Cellco 1, Attachment 2, Drawing SC-1)
71. No blasting is expected to be needed at Site B. (Tr. 1, pp. 18-19)
72. The setback radius of the proposed tower at Site B would be completely within the town property. (Cellco 1, Attachment 2, Drawing AB-1)
73. There are no residences within 1,000 feet of Site B. (Cellco 1, p. 14)
74. The nearest residence is located approximately 1,100 feet to the southeast at 32 Old Baird Road and is owned by Richard and Elizabeth Noble. (Cellco 4, Response 21)
75. The estimated cost of the facility, including antennas and radio equipment, is:

Cell site radio equipment	\$450,000
Tower, coax, and antennas costs	50,000
Power systems costs	40,000
Equipment building costs	50,000
<u>Miscellaneous costs</u>	<u>35,000</u>
Total	\$625,000

(Cellco 1, p. 22)

Environmental Considerations

Site A

76. Cellco's proposed facility at Site A would have no effect on historic, architectural, or archaeological resources listed on or eligible for the National Register of Historic Places. (Cellco 1, Attachment 12 – Letter from State Historic Preservation Office)
77. Cellco's proposed facility at Site A would not impact any known occurrence of species listed on the Connecticut Department of Environmental Protection's (DEP) Natural Diversity Data Base or significant natural communities. (Cellco 1, Attachment 12 – Letter from EBI Consulting)
78. Development of Site A would require the removal of 34 trees with a diameter of six inches or greater at breast height. (Cellco 4, Response 11)
79. The closest wetland to Site A is approximately 110 feet to the southwest. (Tr. 1, p. 20)

80. Cellco would establish appropriate soil erosion and sedimentation control measures in accordance with the *Connecticut Guidelines for Soil Erosion and Sediment* and maintain them throughout the facility's construction period. (Cellco 1, p. 19)
81. Cellco would have to obtain a permit from DEP's Bureau of Air Management for its propane-fueled generator. (Cellco 1, p. 21)
82. An air-space analysis conducted by Cellco indicated that, according to FAA standards, its proposed tower at Site A would not constitute an obstruction or hazard to air navigation and would not require obstruction marking or lighting. (Cellco 1, p. 20; Attachment 14)
83. The maximum power density from the radio frequency emissions of Cellco's proposed antennas would be 2.46% of the standard for Maximum Permissible Exposure, as adopted by the FCC, at the base of the proposed tower. This calculation was based on a methodology prescribed by the FCC Office of Engineering and Technology Bulletin No. 65E, Edition 97-01 (August 1997) that assumes all antennas would be pointed at the base of the tower and all channels would be operating simultaneously. (Cellco 1, pp. 15-16)

Site B

84. Cellco's proposed facility at Site B would have no effect on historic, architectural, or archaeological resources listed on or eligible for the National Register of Historic Places. (Cellco 1, Attachment 12 – Letter from State Historic Preservation Office)
85. Cellco's proposed facility at Site B would not impact any known occurrence of species listed on the DEP Natural Diversity Data Base or significant natural communities.. (Cellco 1, Attachment 12 – Letter from EBI Consulting)
86. Development of Site B would require the removal of 24 trees with a diameter of six inches or greater at breast height. (Cellco 4, Response 11)
87. The closest wetland to Site B is approximately 150 feet to the northwest. (Cellco 1, p. 18; Attachment 13)
88. Cellco would establish appropriate soil erosion and sedimentation control measures in accordance with the *Connecticut Guidelines for Soil Erosion and Sediment* and maintain them throughout the facility's construction period. (Cellco 1, p. 19)
89. Cellco would have to obtain a permit from DEP's Bureau of Air Management for its propane-fueled generator. (Cellco 1, p. 21)
90. An air-space analysis conducted by Cellco indicated that, according to FAA standards, its proposed tower at Site B would not constitute an obstruction or hazard to air navigation and would not require obstruction marking or lighting. (Cellco 1, p. 20; Attachment 14)

91. The maximum power density from the radio frequency emissions of Cellco's proposed antennas would be 2.16% of the standard for Maximum Permissible Exposure, as adopted by the FCC, at the base of the proposed tower. This calculation was based on a methodology prescribed by the FCC Office of Engineering and Technology Bulletin No. 65E, Edition 97-01 (August 1997) that assumes all antennas would be pointed at the base of the tower and all channels would be operating simultaneously. (Cellco 1, pp. 15-16)

Visibility

Site A

92. Cellco's proposed Site A would be visible above the tree canopy on a year-round basis from approximately 116 acres in the surrounding vicinity. The main areas of visibility occur to the south and southwest of the site over the southern half of Lake Winnemaug, Winnemaug Lake Road, and adjacent agricultural fields where ground elevations exceed 750 feet amsl. Site A would also be visible from portions of Farmdale Road to the southeast and Westgate Road to the northeast. (Cellco 1, Attachment 11, p. 5) (See Figure 8)
93. Site A would be seasonally visible from approximately 48 additional acres, most of which would occur on the host property and its immediate vicinity. (Cellco 1, Attachment 11, p. 5)
94. Approximately 16 residences would have year-round views of the proposed tower at Site A. (Cellco 1, Attachment 11, p. 5)
95. Approximately 10 additional residences would have seasonal views of the proposed tower at Site A. (Cellco 1, Attachment 11, p. 5)
96. The land use in those areas with year-round and seasonal views of Site A is primarily residential. (Tr. 1, p. 17)

97. The visibility of Site A from different vantage points in the surrounding vicinity is summarized in the following table. The locations of the vantage points listed are identified by their corresponding number in the Visual Resource Evaluation Report contained in Attachment 11 of Cellco's application. (See Figure 8)

<u>Location</u>	<u>Site Visible</u>	<u>Approx. Portion of (150') Tower Visible (ft.)</u>	<u>Approx. Distance and Direction to Tower</u>
1 – 509 Lake Winnemauug Road	Yes	Upper 50'	6,100 feet; N
2 – Lake Winnemauug Road, east of Sperry Road	Yes	Upper 40'	6,300 feet; NW
3 – Lake Winnemauug Road at Northgate Road	No	n/a	5,900 feet, NW
4 – Lake Winnemauug Road, looking northwest	Yes	Upper 30'	6,200 feet; NW
5 – Lake Winnemauug Road at Marc Drive	No	n/a	6,100 feet, N
6 – 42 West Meadows Road	No	n/a	6,600 feet, N
7 – 569 Lake Winnemauug Road	No	n/a	6,300 feet, N
8 – 90 Farmdale Road	Yes	Upper 40'	4,300 feet, NE
9 – Hamilton Avenue at Old Baird Road	No	n/a	1,200 feet, NW
10 – 166 Westgate Road	Yes	Upper 20'	5,300 feet, S

(Cellco 1, Attachment 11 – Photographic Simulations)

Site B

98. Cellco's proposed Site B would be visible above the tree canopy on a year-round basis from approximately 107 acres in the surrounding vicinity. The main areas of visibility occur to the south and southwest of the site over the southern half of Lake Winnemauug, Winnemauug Lake Road, and adjacent agricultural fields where ground elevations exceed 750 feet amsl. Site B would also be visible from select portions of Winnemauug Lake Road and West Meadows Road to the east and along Hamilton Avenue near Old Baird Road to the southeast. (Cellco 1, Attachment 11, p. 5) (See Figure 8)

99. Site B would be seasonally visible from approximately 39 additional acres, most of which would occur on the host property and its immediate vicinity. (Cellco 1, Attachment 11, p. 5)

100. Approximately 18 residences would have year-round views of the proposed tower at Site B. (Cellco 1, Attachment 11, p. 5)

101. Approximately eight additional residences would have seasonal views of the proposed tower at Site B. (Cellco 1, Attachment 11, p. 5)

102. The visibility of Site B from different vantage points in the surrounding vicinity is summarized in the following table. The locations of the vantage points listed are identified by their corresponding number in the Visual Resource Evaluation Report contained in Attachment 11 of Cellco's application. (See Figure 8)

<u>Location</u>	<u>Site Visible</u>	<u>Approx. Portion of (160°) Tower Visible (ft.)</u>	<u>Approx. Distance and Direction to Tower</u>
1 – 509 Lake Winnemaug Road	Yes	Upper 40'	6,200 feet; N
2 – Lake Winnemaug Road, east of Sperry Road	No	n/a	6,500 feet; NW
3 – Lake Winnemaug Road at Northgate Road	Yes	Upper 10'	6,400 feet, NW
4 – Lake Winnemaug Road, looking northwest	Yes	Upper 20'	6,500 feet; NW
5 – Lake Winnemaug Road at Marc Drive	Yes	Upper 10'	6,200 feet, N
6 – 42 West Meadows Road	Yes	Upper 40'	6,500 feet, N
7 – 569 Lake Winnemaug Road	Yes	Upper 40'	6,200 feet, N
8 – 90 Farmdale Road	No	n/a	3,900 feet, NE
9 – Hamilton Avenue at Old Baird Road	Yes	Upper 50'	1,000 feet, NW
10 – 166 Westgate Road	No	n/a	5,500 feet, S

(Cellco 1, Attachment 11 – Photographic Simulations)

103. The land use in those areas with year-round and seasonal views of Site B is primarily residential. (Tr. 1, p. 17)

Existing and Proposed Wireless Coverage

104. Cellco is licensed by the FCC to provide PCS services in Litchfield County. (Cellco 1, p. 8)

105. In Litchfield County, Cellco is licensed to operate in the PCS F Block (1970-1975 MHz) and the PCS C3 Block (1975-1980 MHz). (Cellco 4, Response 1)

106. Cellco's design signal coverage threshold is -85 dBm for in-vehicle coverage and -75 dBm for in-building coverage. (Cellco 4, Response 7)

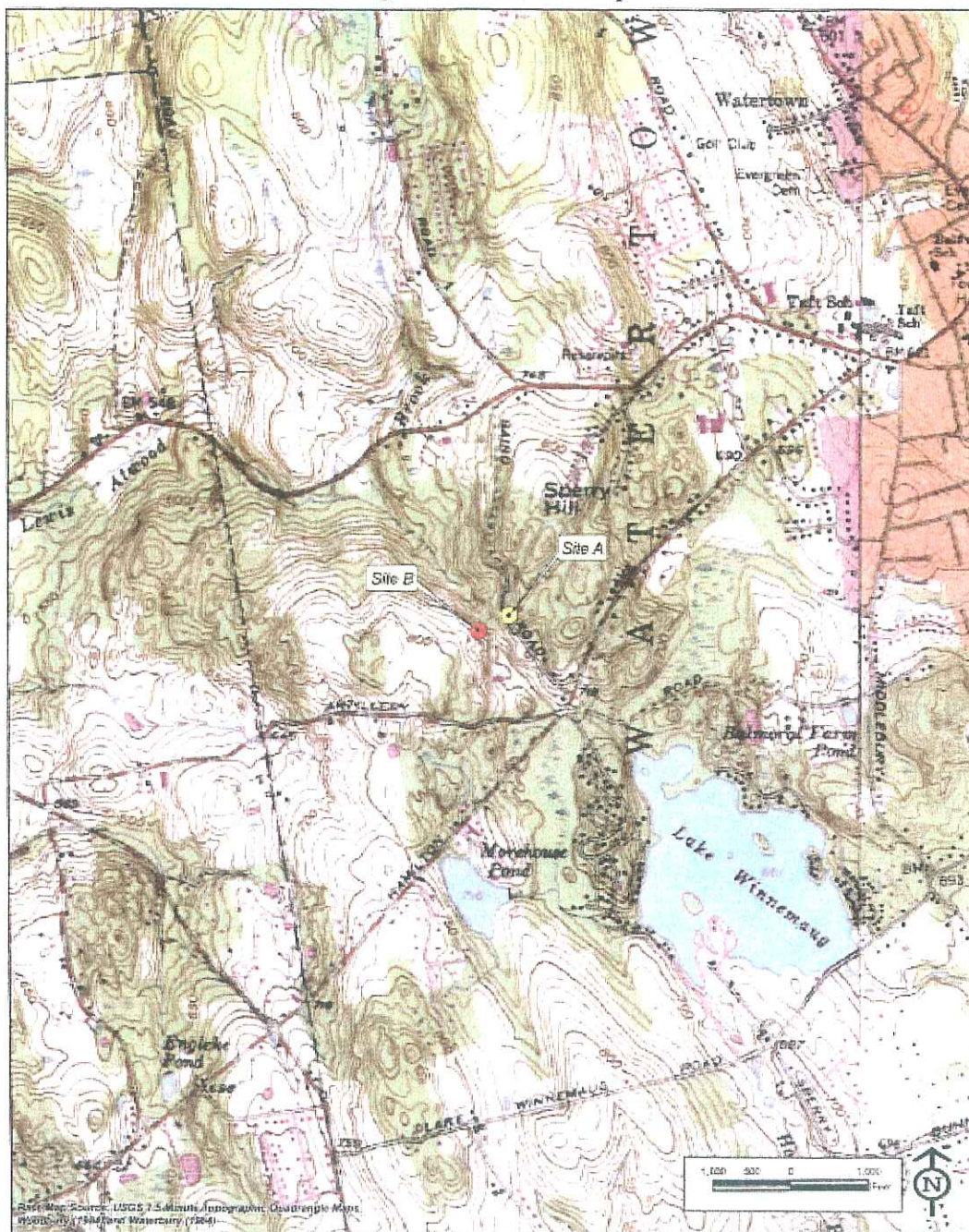
107. Cellco's existing signal strength in the area that would be covered by the proposed facility ranges from -86 dBm to -107 dBm. Signal strength is determined through the use of Cellco's propagation modeling tool and is confirmed using baseline drive data. (Cellco 4, Response 8)

108. The existing coverage gap on Route 6 that Cellco is seeking to fill is approximately 2.2 miles. Cellco could effectively cover this gap from either Site A or Site B. (Cellco 4, Response 10) (See Figures 5, 6, 7)

109. Cellco would be able to provide coverage for a 2.42 mile portion of Route 6 from Site A. (Cellco 1, p. 10)

110. Cellco would be able to provide coverage for a 2.45 mile portion of Route 6 from Site B. (Cellco 1, p. 10)
111. Cellco would be able to cover an overall area of 11.6 square miles from Site A. (Cellco 1, p. 10)
112. Cellco would be able to cover an overall area of 11.9 square miles from Site B. (Cellco 1, p. 10)
113. Cellco's antennas at this site would hand off signals with adjacent sites identified as Woodbury North located at 1440 Main Street in Woodbury, 1.4 miles to the west; Watertown Central located at 1092 Buckingham Street in Watertown, 2.9 miles to the northeast; and Watertown South located on Georgetown Drive in Watertown, 2.9 miles to the southeast. (Cellco 4, Response 3; Tr. 1, p. 18)
114. The lowest heights at which Cellco could achieve its coverage objectives are 150 feet above ground level at Site A and 160 feet above ground level at Site B. (Cellco 4, Response 5)
115. Cellco is looking at a site near the intersection of Routes 63 and 73, approximately 1,000 feet to the southeast of the proposed sites, where it could locate antennas on an existing rooftop to cover this area that would remain uncovered should the proposed site be approved. (Tr. 1, pp. 24-25)

Figure 1: Location Map



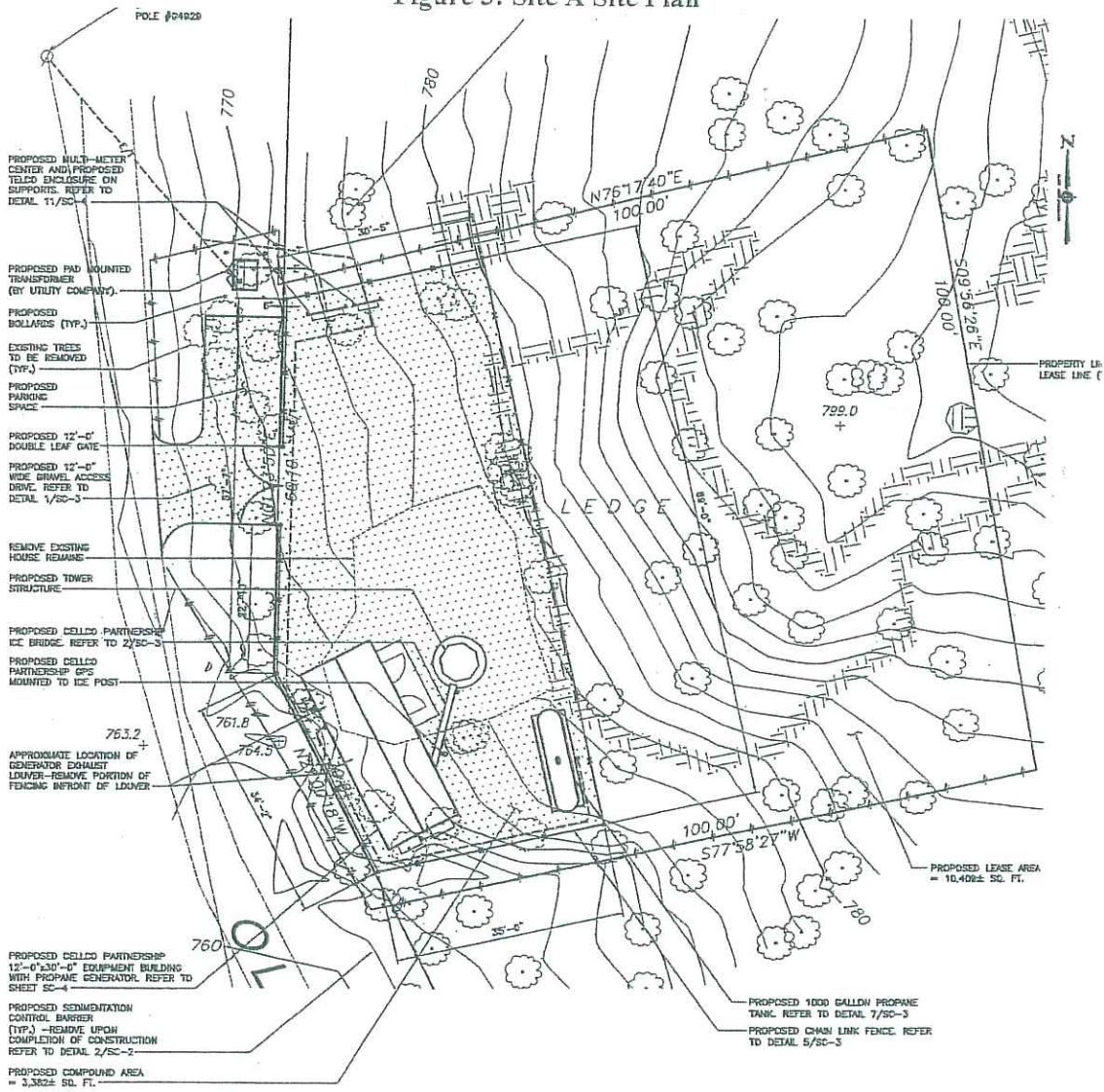
(Cellco 1, p. ii)

Figure 2: Aerial Photograph of Site Locations



(Cellco 1, p. iii)

Figure 3: Site A Site Plan

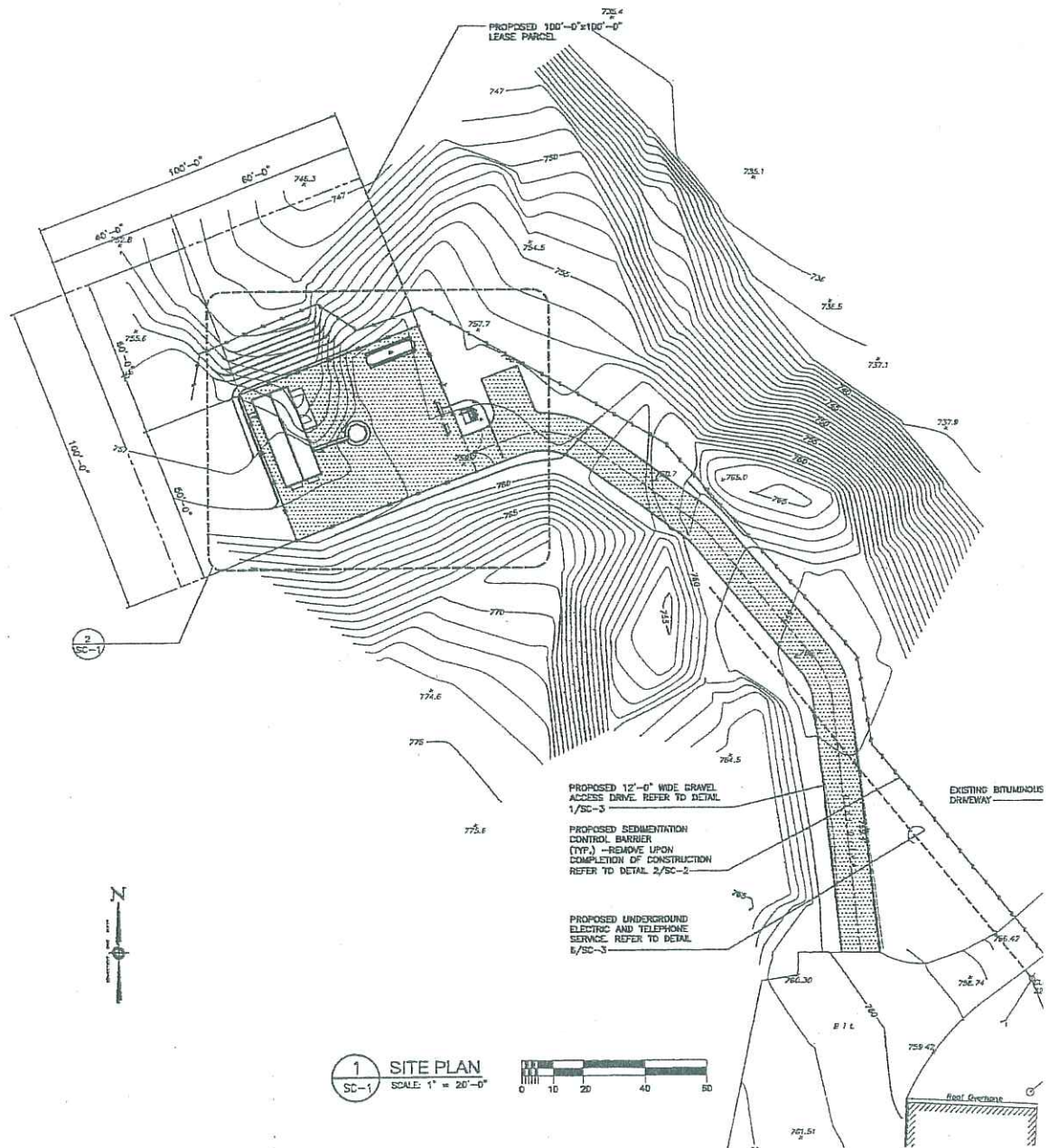


2 COMPOUND PLAN
 SC-1 SCALE: 1" = 10'-0"



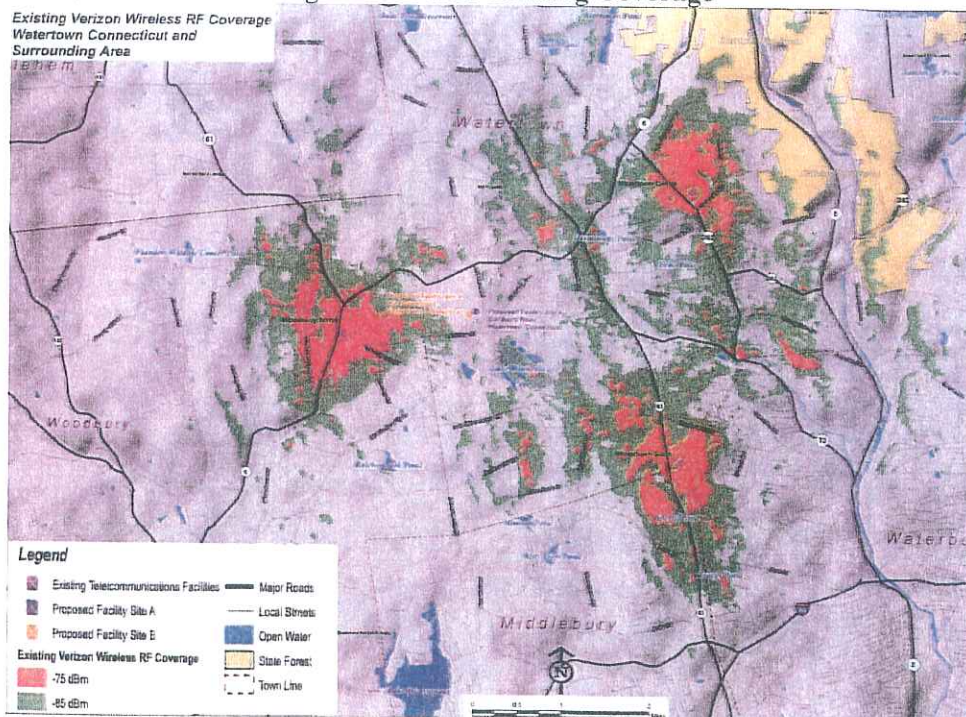
(Celco 1, Attachment 1, Drawing SC-1)

Figure 4: Site B Site Plan



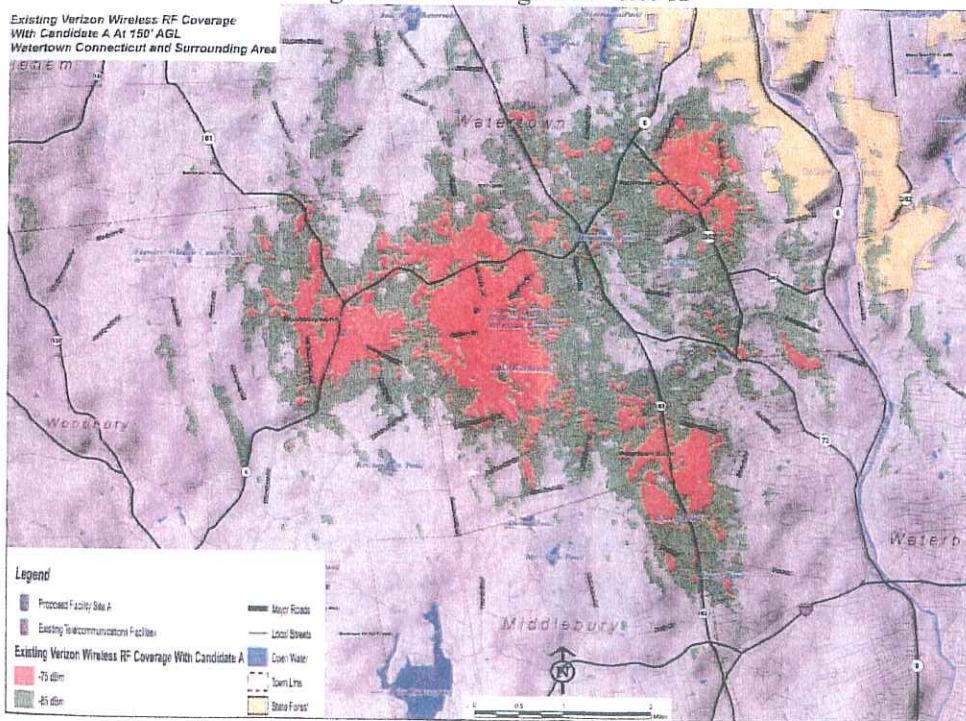
(Cellco 1, Attachment 2, Drawing SC-1)

Figure 5: Cellco Existing Coverage



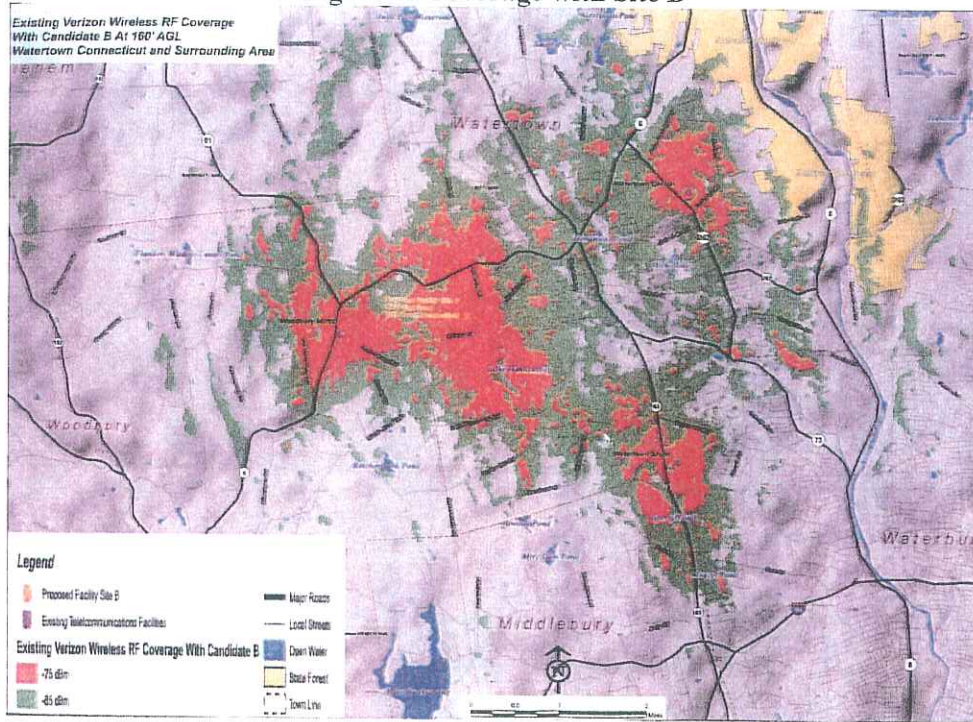
(Cellco 1, Attachment 8)

Figure 6: Coverage with Site A



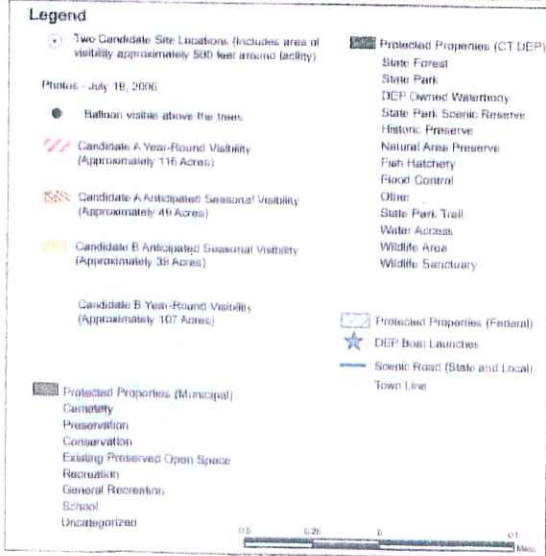
(Cellco 1, Attachment 8)

Figure 7: Coverage with Site B



(Cellco 1, Attachment 8)

Figure 8: Visibility Map



(Cellco 1, Attachment 11)