

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

APPLICATION OF CELCO PARTNERSHIP	:	
d/b/a VERIZON WIRELESS FOR A	:	
CERTIFICATE OF ENVIRONMENTAL	:	DOCKET NO. 318
COMPATIBILITY AND PUBLIC NEED FOR	:	
THE CONSTRUCTION, MAINTENANCE	:	
AND OPERATION OF A WIRELESS	:	
TELECOMMUNICATIONS FACILITY AT	:	
1191 TERRYVILLE ROAD IN BRISTOL,	:	
CONNECTICUT	:	SEPTEMBER 21, 2006

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

On September 1, 2006, the Connecticut Siting Council ("Council") issued Pre-Hearing Interrogatories (Set One) to Celco Partnership d/b/a Verizon Wireless ("Celco") relating to the above-captioned Application. Below are Celco's responses.

Question No. 1

Subsequent to Celco's pre-application consultations with local officials, did any official representing Bristol or Plymouth (other than the Bristol City Planner) issue any statement regarding Celco's plans for this site? Did any land use board or municipal council conduct any public hearings or meetings on Celco's plans? Did such boards or councils pass any resolutions or issue any decisions or statements about Celco's plans? If so, provide copies of such documents.

Response

The extent of local contacts with municipal officials in Bristol and Plymouth is described in Celco's 16-50(e) Notification filing submitted to the Council on August 10, 2006. Celco is

not aware of any additional statements, resolutions or decisions of any municipal boards or councils in either the Town of Plymouth or the City of Bristol (written or verbal). To the best of our knowledge, no public meetings or hearings were held on the tower proposal.

Question No. 2

Did Cellco provide the same technical information to Plymouth officials that it did to Bristol officials?

Response

Yes.

Question No. 3

What are the characteristics of this proposal that make it exempt from regulation under Bristol's zoning regulations?

Response

Cellco proposes the construction of a telecommunications "facility" as that term is defined in Section 16-50i(a)(6) of the General Statutes. Such facilities are under the exclusive jurisdiction of the Connecticut Siting Council and are therefore exempt from the Bristol Zoning Regulations pursuant to Section 16-50x(a) of the General Statutes. Also, as discussed on page 15 of the Application, the Bristol Zoning Regulations do not contain specific regulations for wireless telecommunications facilities like the one proposed in this docket.

Question No. 4

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, frequency at which each antenna system would operate.

Response

<u>Alpha Sector – 118 Ft.</u>	<u>Beta Sector – 118 Ft.</u>	<u>Gamma Sector – 118 Ft.</u>
Antenna Type: BXA – 185085/12CF	Antenna Type: BXA – 185063/12CF	Antenna Type: BXA – 185085/12CF
Frequency: 1970-1975 MHz	Frequency: 1970-1975 MHz	Frequency: 1970-1975 MHz
No. Channels:3	No. Channels:3	No. Channels:3
ERP/Channel:200 W Max	ERP/Channel:200 W Max	ERP/Channel:200 W Max
<u>Alpha Sector – 108 Ft.</u>	<u>Beta Sector – 108 Ft.</u>	<u>Gamma Sector – 108 Ft.</u>
Antenna Type: BXA – 80063/8CF	Antenna Type: BXA – 80063/8CF	Antenna Type: BXA – 80063/8CF
Frequency: 869-880,890- 891.5 MHz	Frequency: 869-880,890- 891.5 MHz	Frequency: 869-880,890-891.5 MHz
No. Channels: 8	No. Channels: 8	No. Channels: 8
ERP/Channel: 200 W Max	ERP/Channel: 200 W Max	ERP/Channel: 200 W Max

Question No. 5

At what frequencies is Celco licensed to operate?

Response

In the Bristol/Plymouth area, Celco is licensed to operate in both the cellular (869-880, 890 – 891.5 MHz) and PCS F Block (1970 - 1975 MHz) frequency bands. Celco plans to operate both PCS and cellular antennas at the Bristol West facility. PCS antennas will be located at the 118-foot level and cellular antennas will be located at the 108-foot level, inside the flagpole tower.

Question No. 6

What frequency (or frequencies) is represented on the propagation maps provided after Tab 7 of the application?

Response

The maps behind Tab 7 show coverage at PCS frequencies. Coverage from Cellco's existing Bristol sites at cellular frequencies is depicted on the coverage plot behind Tab 1 of these responses. (This plot does not include coverage from the existing Plymouth facility because Cellco only provides PCS service in Litchfield County, Connecticut.)

Question No. 7

Of the letters sent to abutting property owners, how many certified mail receipts did Cellco receive? If any receipts were not returned, which owners did not receive their notice. Did Cellco make additional attempts to contact those property owners?

Response

Cellco identified twenty-two abutting properties owned by sixteen individuals or entities in its list of Adjacent Property Owners behind Tab 5 of the Application. Cellco received all but three return receipts from its abutters mailing. Of the three letters returned, two were marked "unclaimed" and one was marked "attempted-unknown". The addresses on the returned letters were confirmed with the Bristol tax assessor's office and were resent, regular mail to the addressee.

Question No. 8

Would Cellco's antennas comply with E911 requirements?

Response

Yes.

Question No. 9

What is the total area Cellco's antennas would cover from this site? What is the total area covered if Cellco's antennas were ten feet lower?

Response

Cellco's proposed Bristol West facility will provide coverage to an area of approximately 6.5 square miles at cellular frequencies and 4.95 square miles at PCS frequencies. If Cellco's antennas were mounted ten feet lower than proposed in the Application these coverage footprints would shrink to 6.1 square miles at cellular frequencies and 3.8 square miles at PCS frequencies.

Question No. 10

What is the distance Cellco's antennas at this site would cover on Route 6 at the proposed height? Route 72? What are the respective distances if Cellco's antennas were ten feet lower?

Response

Cellco expects that the Bristol West facility will cover approximately 0.5 miles at cellular frequencies and 1.1 miles at PCS frequencies along Route 6 and 0.8 miles at cellular frequencies and 3.2 miles at PCS frequencies along Route 72. If antenna heights are reduced by ten feet Cellco's coverage along Route 6 would be reliable at cellular frequencies but a 0.1 mile gap in coverage would open up at PCS frequencies. Coverage along Route 72 would be reliable at both cellular and PCS frequencies at the lower heights.

Question No. 11

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

Response

-85 dBm.

Question No. 12

What is the signal strength in those areas Cellco is seeking to cover from this site?

Response

Cellco's signal strength in these areas today varies but is all well below Cellco's design threshold of -85 dBm.

Question No. 13

Did Cellco conduct any drive tests for this site? If so, provide information depicting the results of these tests.

Response

No.

Question No. 14

Could repeaters, microcells, or distributed antenna systems provide coverage in Cellco's target area comparable to that which would be provided by the proposed flagpole tower?

Response

No. The use of repeaters, microcells or distributed antenna system technology is not a practical or feasible means of providing coverage to the large geographic area that Cellco seeks to cover with the proposed Bristol West facility.

Question No. 15

Identify those adjacent sites with which the proposed site would hand off signals.

Response

As depicted on the coverage plots contained behind Tab 7 of the Application, Cellco expects the Bristol West facility to hand off to its existing Plymouth cell site to the west and Bristol West 2 and Bristol cell sites to the east.

Question No. 16

How many trees would be removed to develop this site?

Response

The location of the Bristol West compound will require the removal of three trees.

Question No. 17

Quantify the amounts of cuts and fills that would be required to develop this site.

Response

Cut = 20 cubic yards, Fill = 225 cubic yards, Total Net Fill = 205 cubic yards.

Question No. 18

The Application narrative states the fence around the planned compound would be eight feet high. A detail on the site plan depicts a six-foot high fence. Confirm the planned height of the compound fence.

Response

The height of the fence around the site compound will be eight (8) feet. Attached behind Tab 2 of these responses is a revised Sheet C-4 showing the corrected fence detail.

Question No. 19

Which specification would the proposed tower be built to – Electronic Industries Association Standard EIA/TIA-222-E or F?

Response

The Bristol West tower will be built to the TIA/EIA-222-F-96, the current revision to the Electronic Industries Association Standard.

Question No. 20

When was Celco's search ring for this area first issued? How large was the ring? Where was it centered? Submit a map showing the search ring.

Response

The Bristol West search ring was issued in February 2003. The ring is roughly ½ mile in diameter and was centered around the Pequabuck Golf Club property. See Map behind Tab 3 of these responses.

Question No. 21

Has Celco contacted any other carriers about the possibility of using this site? If so, have any other carriers shown a potential interest in this site? Provide any supporting documentation.

Response

To date, only New Cingular Wireless has expressed any interest in the proposed Bristol West facility. Information regarding the site was sent to Mr. Steve Levine.

Question No. 22

How would utility service be provided to the site?

Response

As depicted on Sheet C-1 behind Tab 1 of the Application, the existing maintenance buildings are served by overhead utility lines extending through the golf club parking area. Celco intends to tap into that existing service and extend utilities from the existing electric manhole shown on Sheet C-1. Final utility access and location will need to be approved by the Connecticut Light and Power Company and will be presented to the Council in the D&M Plan if this cell site is approved.

Question No. 23

Did Celco contact Connecticut's DEP regarding the possibility of endangered or threatened species in the vicinity of this site? If so, provide DEP's response.

Response

Behind Tab 11 of the Application is Celco's NEPA Environmental Screening Checklist, which includes a letter from the United States Fish and Wildlife Service verifying that there are no federally-listed or proposed, threatened or endangered species or critical habitat at the project area.

Celco also reviewed information maintained by the Connecticut Department of Environmental Protection ("CTDEP") Natural Diversity Data Base (including State and Federal Listed Species and Natural Communities maps) to determine if any State endangered, threatened or special concern species are present at the project site. Based on the CTDEP's review criteria this project will not impact any known occurrence of listed species or significant natural communities. If the project is not: within a shaded area; or overlapping a water body that has any shading; or upstream or downstream (by less than ½ mile) from a shaded area, it is assumed that

the project will not impact any known occurrence of listed species or significant natural communities. For those projects where the map review indicates no endangered, threatened or special concern species conflict, the CTDEP does not require the submission of a Natural Diversity Data Base request form and therefore, no written confirmation was obtained or required.

Question No. 24

What is the lowest height at which Cellco's antennas could achieve its coverage objectives from this site? Submit propagation maps showing the coverage at ten feet below this height.

Response

Cellco's cellular and PCS antennas are located at the lowest level needed to achieve its coverage objectives and connect between its existing Bristol and Plymouth cell sites. Dropping the antennas heights by ten feet results in coverage gaps opening up along Route 6. The overall coverage footprint from the site would also shrink by approximately 1.1 square miles. (See coverage plot behind Tab 4 of these responses).

Question No. 25

Would any blasting be required to develop this site?

Response

Until a final geotechnical survey is completed, at the time of D&M Plan approval, Cellco will not know whether blasting will be required to construct the facility. However, based on existing site conditions, we do not anticipate the need for blasting.

Question No. 26

Explain the relocated drainage pipe shown on Drawing C-2 of the proposed facility's site plans.

Response

The existing catch basin serves as drainage collection for the existing maintenance building's roof rainwater . The catch basin presently has an underground drainage pipe extending into the proposed communications compound area. The plans propose the relocation of this underground drainage pipe away from the proposed compound to the west.

Question No. 27

Estimate the number of residences that would have a year-round view of the tower; the number that would have a seasonal view.

Response

Cellco estimates that 12 residences would have a year-round view of the flagpole and approximately 6 residences would have seasonal views.

Question No. 28

View sites 2, 4, 5 and 6 of the Visual Resource Evaluation Report appear to be outside areas shown as having views of the proposed tower and yet the tower is shown to be visible from these sites. Are there other areas that might have views of the tower that are not shown on the viewshed map?

Response

The visibility associated with views 2,4,5 and 6 is localized to the immediate vicinity of the photographic locations. The map does in fact show visibility from these areas. However,

these small areas are obscured by the symbol used to depict the photo locations. The points shown on the map that depict the photographic locations cover an area of several hundred feet based on the scale at which the figure is produced.

Question No. 29

Of the total number of acres from which the tower would be visible, how many of these acres are undeveloped, i.e. golf course property, watershed land, or vacant land?

Response

Of the total number of acres from which the tower would be visible, approximately 52 acres occur on undeveloped land. This includes 18 acres on golf course property; 16 acres over open water; 4 acres on watershed/water company property; and 14 acres on a gravel pit property located approximately 3,000 feet east of the proposed Facility.

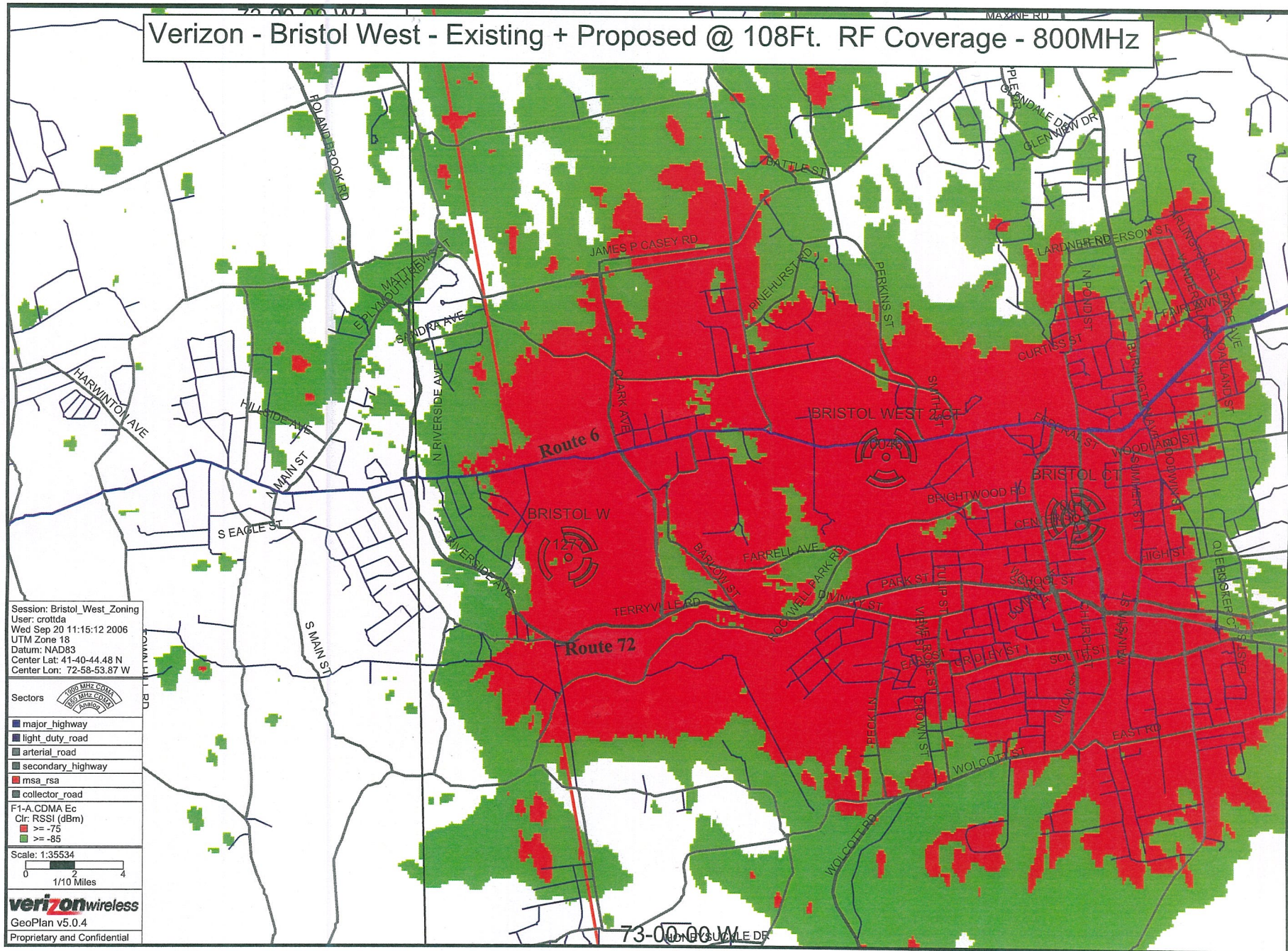
Question No. 30

Does Cellco plan to fly a flag from the proposed flagpole tower?

Response

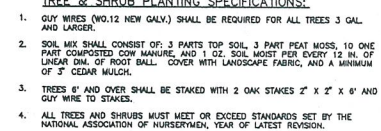
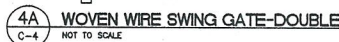
Yes.

Verizon - Bristol West - Existing + Proposed @ 108Ft. RF Coverage - 800MHz





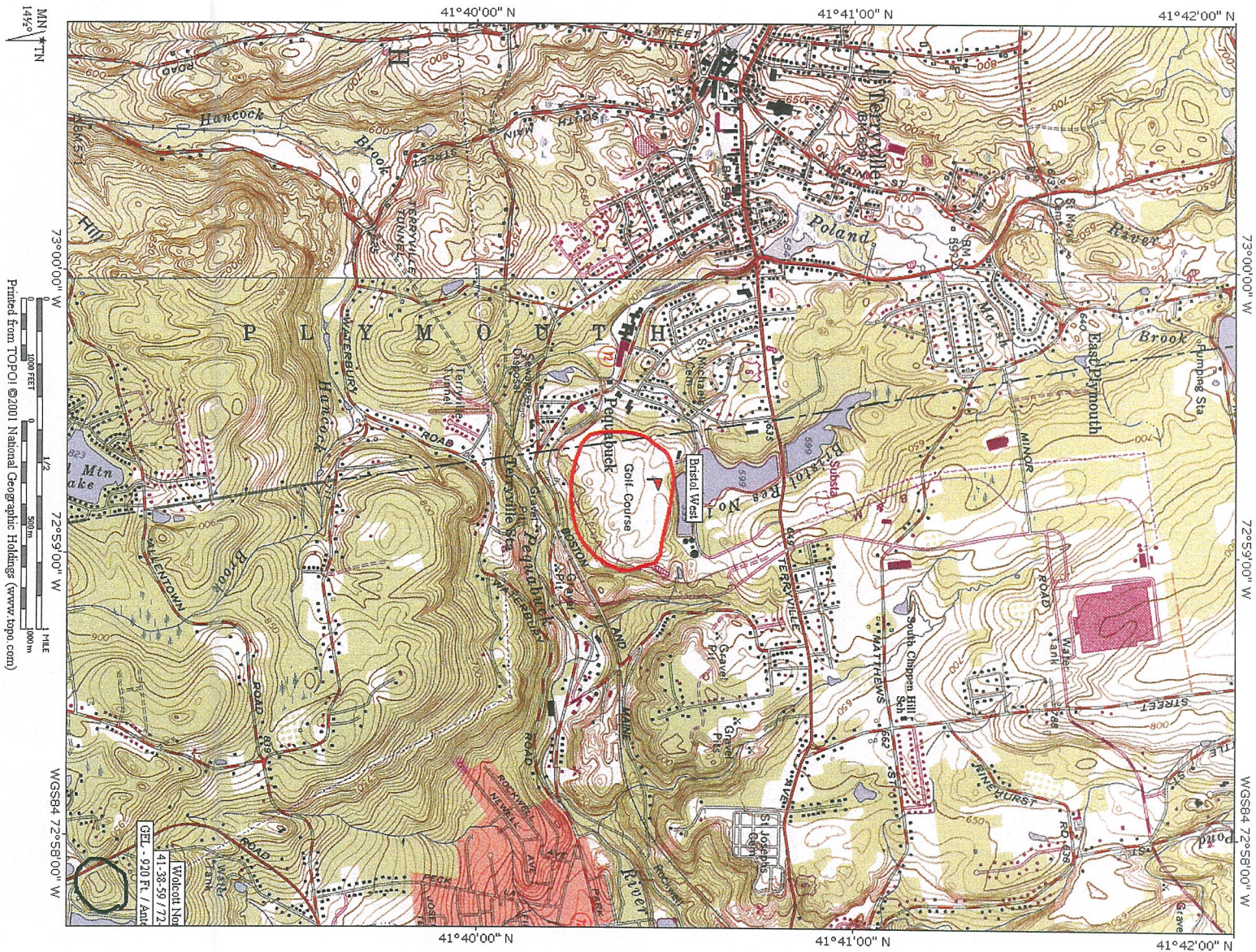
1. GATE POST, CORNER, TERMINAL OR FULL POST 2 1/2" x SCHEDULE 40 FOR GATE WIDTHS UP TO THREE FEET OR 12 FEET FOR DOUBLE SWING GATE PER ASTM-F1083.
2. LINE POST: 2" x SCHEDULE 40 PIPE PER ASTM-F1083.
3. GATE FRAME: 1 1/2" x SCHEDULE 40 PIPE PER ASTM-F1083.
4. TOP RAIL & BRACE RAIL: 1 1/2" x SCHEDULE 40 PIPE PER ASTM-F1083.
5. FABRIC: 12 GA. CORE WIRE SIZE 2" MESH, CONFORMING TO ASTM-A392.
6. THE WIRE: MINIMUM 1/4 GA. GALVANIZED STEEL AT POSTS AND RAILS A SINGLE WRAP OF FABRIC TIE AT AND TENSION WIRE BY HOG RINGS SPACED MAX 24" INTERVALS.
7. TENSION WIRE: 7 GA. GALVANIZED STEEL.
8. BARBED WIRE: DOUBLE STRAND 12-1/2" O.D. TWISTED WIRE TO MATCH W/FABRIC 14 GA., 4 PT. BARBS SPACED ON APPROXIMATELY 4" CENTERS.
9. GATE LATCH: DROP DOWN LOCKABLE FORCE LATCH AND LOCK, KEYPED ALIKE FOR ALL SITES IN A GIVEN WTA.
10. LOCAL ORDINANCE OF BARBED WIRE PERMIT REQUIREMENT SHALL BE COMPLIED WITH IF REQUIRED.
11. HEIGHT = 8' VERTICAL + 1' BARBED WIRE VERTICAL DIMENSION.



C-4

DWG. 6 OF 8

Bristol West



Verizon - Bristol West - Existing + Proposed @ 108 Ft. RF Coverage - 1900MHz

