CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS

Connecticut Siting Council

APPLICATION OF CELLCO PARTNERSHIP
D/B/A VERIZON WIRELESS

TOWN OF CORNWALL

CORNWALL FACILITY

DOCKET NO. _____

MAY 6, 2010

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EXECUTIVE SUMMARY

Cellco Partnership d/b/a Verizon Wireless ("Cellco") proposes to construct a telecommunications tower and related facility (the "Cornwall Facility") on an approximately 41-acre parcel owned by Ralph Gulliver, Jr. at 16 Bell Road Extension in Cornwall, Connecticut (the "Property"). The Cornwall Facility will provide coverage and capacity relief along portions of Routes 7 and 4, as well as local roads in southwest Cornwall.

Cellco proposes the construction of a 110-foot telecommunications tower at the Property. Cellco will install fifteen (15) panel-type antennas, with their centerline at the 110-foot level on the tower. The top of Cellco's antennas will extend above the top of the tower to an overall height of approximately 113 feet. Cellco would also install a 12' x 24' shelter located near the base of the tower to house its radio equipment and a back-up generator. The tower and equipment shelter will be located within a 34' x 70' fenced compound. Vehicular access to the Cornwall Facility would extend from Bell Road Extension along an existing driveway a distance of approximately 1,675 feet then over a new gravel driveway extension an additional distance of 545 feet. Utilities will extend from existing service on the landlord's property to the southeast of the tower site.

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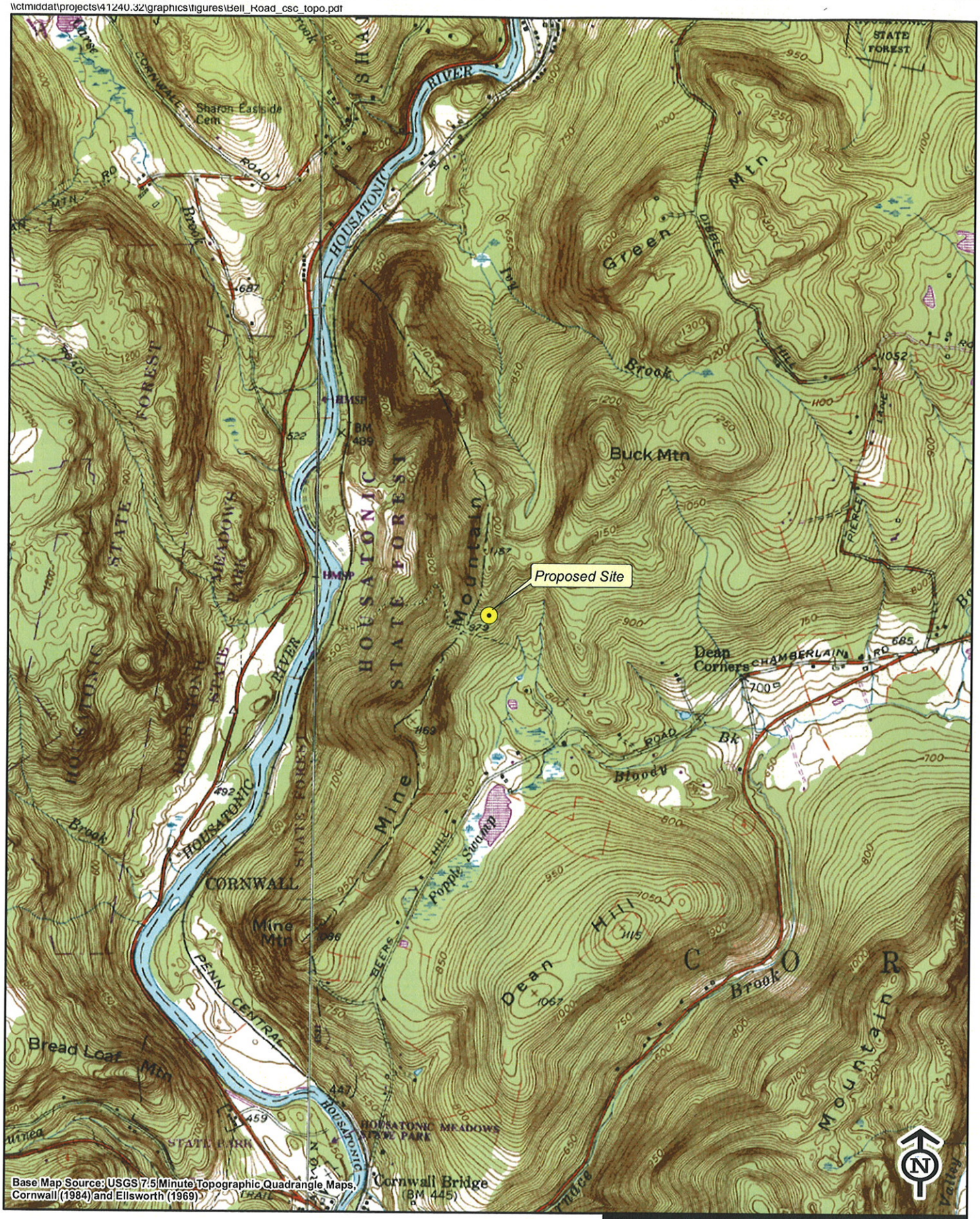

2,000 1,000 0 2,000 Feet

Quadrangle Location

Vanasse Hangen Brustlin, Inc.

USGS Topographic Map
Proposed Verizon Wireless
Telecommunications Facility
Cornwall
16 Bell Road Extension
Cornwall,Connecticut

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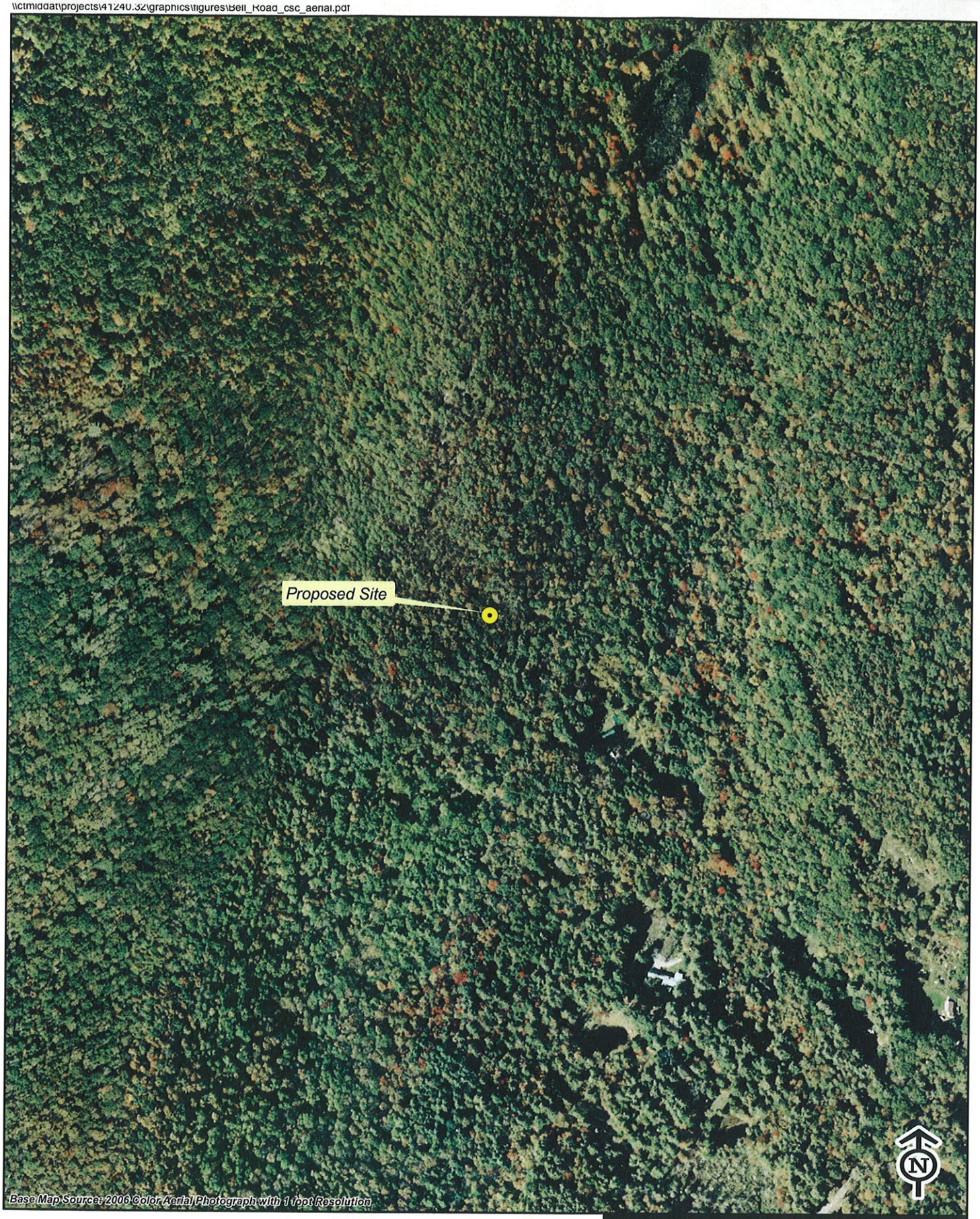

400 200 0 400
Feet

Quadrangle Location

Vanasse Hangen Brustlin, Inc.

Aerial Photograph
Proposed Verizon Wireless
Telecommunications Facility
Cornwall
16 Bell Road Extension
Cornwall, Connecticut

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE:	:	
	:	
APPLICATION OF CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED FOR THE CONSTRUCTION, MAINTENANCE AND OPERATION OF A WIRELESS TELECOMMUNICATIONS FACILITY AT 16 BELL ROAD EXTENSION, CORNWALL, CONNECTICUT	:	**DOCKET NO. ____**
	:	**MAY 6, 2010**

APPLICATION FOR CERTIFICATE OF
ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED

I. INTRODUCTION

A. Authority and Purpose

This Application and the accompanying attachments (collectively, the "Application") is submitted by Cellco Partnership d/b/a Verizon Wireless ("Cellco" or the "Applicant"), pursuant to Chapter 277a, Sections 16-50g et seq. of the Connecticut General Statutes ("C.G.S."), as amended, and Sections 16-50j-1 et seq. of the Regulations of Connecticut State Agencies ("R.C.S.A."), as amended. The Application requests that the Connecticut Siting Council ("Council") issue a Certificate of Environmental Compatibility and Public Need ("Certificate") for the construction, maintenance, and operation of a wireless telecommunications facility, in the Town of Cornwall (the " Town"), Connecticut (the "Cornwall Facility"). The proposed Cornwall Facility would provide wireless telecommunications coverage and capacity relief along portions

of Route 7 and Route 4, as well as local roads in the Towns of Cornwall and Sharon, Connecticut. The Cornwall Facility will also provide coverage to significant portions of the Housatonic State Forest. Cellco currently experiences significant coverage gaps at cellular and PCS frequencies between its existing Cornwall 2, Sharon North, Mohawk Mountain, Sharon 2 and Goshen cell sites. Cellco's Cornwall 2 cell site consists of antennas at the 163-foot level of a 195-foot tower at 7 Surdan Mountain Road in Sharon, Connecticut, approximately 2.2 miles northwest of the Cornwall Facility. Cellco's Sharon North cell site consists of antennas at the 130-foot level of a 130-foot tower at 477 Route 7 in Sharon, Connecticut, approximately 4.5 miles north of the Cornwall Facility. Cellco's Mohawk Mountain cell site consists of antennas at the 65-foot and 57-foot levels on a 79-foot tower off Toomey Road in Cornwall, Connecticut, approximately 4 miles southeast of the Cornwall Facility. Cellco's Sharon 2 cell site consists of antennas at the 106-foot level of a 110-foot tower at 70 Herb Road in Sharon, Connecticut, approximately 5.1 miles southwest of the proposed Cornwall Facility. Cellco's Goshen cell site consists of antennas at the 150-foot level on the 150-foot tower off North Road in Goshen, Connecticut. The proposed Cornwall Facility will provide reliable wireless service to a 1.97 mile portion of Route 7, a 2.46 mile portion of Route 4 and an overall area of 10.05 square miles at cellular frequencies (850 MHz); a 1.83 mile portion of Route 7, a 0.93 mile portion of Route 4 and an overall area of 2.99 square miles at PCS frequencies (1900 MHz); and a 2.13 mile portion of Route 7, a 2.56 mile portion of Route 4 and an overall area of 12.06 square miles at LTE frequencies (700 MHz).

The Cornwall Facility would be located in the westerly portion of a heavily-wooded, 41 acre parcel at 16 Bell Road Extension in Cornwall (the "Property"). The Property is located in the Town's R-5 Residential zone district.

If this application is approved by the Council, Cellco will construct a 110-foot self-supporting monopole telecommunications tower at the Property.[1] Cellco would install fifteen (15) panel-type antennas (six (6) cellular antennas; six (6) PCS antennas; and three (3) LTE antennas) with their centerline at the 110-foot level. The tops of Cellco's antennas would extend above the top of the tower to an overall height of 113 feet above ground level. Equipment associated with Cellco's antennas would be located in a 12' x 24' shelter installed near the base of the tower within a 34' x 70' fenced compound. Vehicular access to the Cornwall Facility would extend from Bell Road Extension over an existing driveway a distance of approximately 1,675 feet then over a new gravel driveway an additional distance of approximately 545 feet to the cell site. Utilities will extend underground from existing service on the Property.[2]

Both the tower and leased area would be designed to accommodate additional carriers as well as municipal emergency services antennas and equipment. As of the date of this filing neither the Town nor any other wireless carrier has committed to share the proposed tower.

Cellco's equipment shelter would house radio and related equipment, including (a) receiving, transmitting, switching, processing and performance monitoring equipment; and (b) automatic heating and cooling equipment. A diesel-fueled back-up generator would also be

[1] During its review of the Cornwall tower proposal with the Town, Cellco considered installing a 117-foot tall "monopine" tree tower at this site. Following the completion of a detailed visual impact analysis, it was determined that a stealth tower design in this case did not offer any significant benefits or reduce visual impacts of the structure.

[2] Final utility location is subject to review and approval of the Connecticut Light and Power Company.

installed in a segregated generator room within the shelter for use during power outages and periodically for maintenance purposes.

The tower and equipment shelter would be enclosed by an 8-foot high security fence and gate. Cellco's equipment building would be equipped with a silent intrusion and systems alarm and will be monitored on a 24-hour basis to receive and to respond to incoming alarms or other technical problems. The equipment building would remain unstaffed, except as required for maintenance. Once the cell site is operational, maintenance personnel will visit the site on a monthly basis. More frequent visits may be required if there are problems with the cell site equipment.

In accordance with Paragraph I(F) of the Council's "Application Guide" for Community Antenna Television and Telecommunication Towers, a copy of the Application Guide is included as Attachment 1. The Application Guide contains references to the specific pages of this Application and the attachments where the information required under Section VI of the Application Guide may be found.

Included in this Application as Attachment 2 is a factual summary and project plans for the proposed Cornwall Facility. This summary, along with the other attachments submitted as part of this Application, contains all of the site-specific information required by statute and the regulations of the Council.

B. The Applicant

Cellco is a Delaware Partnership with an administrative office located at 99 East River Drive, East Hartford, CT, 06108. Cellco is licensed by the Federal Communications Commission ("FCC") to operate a wireless telecommunications system in the State of Connecticut within the

meaning of C.G.S. Section 16-50i(a)(6). Operation of the wireless telecommunications systems and related activities are Cellco's sole business in the State of Connecticut.

Cellco has extensive national experience in the development, construction and operation of wireless telecommunications systems and the provision of wireless telecommunications service to the public.

Correspondence and/or communications regarding this Application may be addressed to:

Sandy Carter, Regulatory Manager
Verizon Wireless
99 East River Drive
East Hartford, Connecticut 06108

A copy of all such correspondence or communications should also be sent to the applicant's attorneys:

Robinson & Cole LLP
280 Trumbull Street
Hartford, Connecticut 06103-3597
(860) 275-8200
Attention: Kenneth C. Baldwin, Esq.

C. Application Fee

The estimated total construction cost for the Cornwall Facility would be less than $5,000,000. Therefore, pursuant to Section 16-50v-1a(b) of the Regulations of Connecticut State Agencies, an application fee of $1,250 accompanies this Application in the form of a check payable to the Council.

II. SERVICE AND NOTICE REQUIRED BY C.G.S. SECTION 16-50l(b)

Copies of this Application have been sent by certified mail, return receipt requested, to municipal, regional, state and federal officials, pursuant to C.G.S. Section 16-50*l*(b). A certificate

of service, along with a list of the parties served with a copy of the Application, is included as Attachment 3.

Notice of Cellco's intent to submit this Application was published on May 3 and May 4, 2010, by Cellco in the *Waterbury Republican-American* pursuant to C.G.S. Section 16-50*l*(b). A copy of the published legal notice is included as Attachment 4. A copy of the publisher's affidavit or certificate of publication will be submitted to the Council as soon as it is available.

Attachment 5 contains a certification that notices were sent to each person appearing of record as an owner of property that may be considered to abut the Property in accordance with C.G.S. Section 16-50*l*(b), as well as a list of the property owners to whom such notice was sent and a sample notice letter.

III. REQUIRED INFORMATION: PROPOSED WIRELESS FACILITY

The purpose of this section is to provide an overview and general description of the wireless facility proposed to be installed at the Property.

A. General Information

Prior to the 1980's, mobile telephone service was characterized by insufficient frequency availability, inefficient use of available frequencies and poor quality of service. These limitations generally resulted in problems of congestion, blocking of transmissions, interference, lack of coverage and relatively high cost. Consequently, the FCC, in its Report and Order released May 4, 1981 in FCC Docket No. 79-318, recognized the public need for technical improvement, wide-area coverage, high quality service and a degree of competition in mobile telephone service.

More recently, the federal Telecommunications Act of 1996 (the "Act") emphasized and expanded on these aspects of the FCC's 1981 decision. Among other things, the Act recognized an

important nationwide public need for high-quality wireless telecommunication services of all varieties. The Act also expressly promotes competition and seeks to reduce regulation in all aspects of the telecommunications industry in order to foster lower prices for consumers and to encourage the rapid deployment of new telecommunications technologies.

Cellco's proposed Cornwall Facility would be part of the expanding wireless telecommunications network envisioned by the Act and has been developed to help meet these nationwide goals. In particular, Cellco's system has been designed, and the cell sites proposed in this Application have been selected, so as to maximize the geographical coverage and quality of service while minimizing the total number of cell sites required.

Because the FCC and the United States Congress have determined that there is a pressing public need for high-quality wireless telecommunications service nationwide, the federal government has preempted the determination of public need by states and municipalities, including the Council, with respect to public need for the service to be provided by the proposed facility. In addition, the FCC has promulgated regulations containing technical standards for wireless systems, including design standards, in order to ensure the technical integrity of each system and nationwide compatibility among all systems. State and local regulation of these matters is likewise preempted. The FCC has also exercised its jurisdiction over and preempted state and local regulation with respect to radio frequency interference issues by establishing regulations in this area as well.

Pursuant to FCC authorizations, Cellco has constructed and currently operates a wireless system throughout Connecticut. This system, together with Cellco's system throughout its east coast and nationwide markets, has been designed and constructed to operate as one integrated,

contiguous system, consistent with Cellco's business policy of developing compatibility and continuity of service on a regional and national basis.

Recognizing the public safety benefits that enhanced wireless telecommunications networks can provide, the United States, Congress also enacted the Wireless Communications and Public Safety Act of 1999 to promote and enhance public safety by making 911 the universal emergency assistance number, furthering the deployment of wireless 911 capabilities and further encouraging the construction and operation of seamless, ubiquitous and reliable wireless networks. In 2004, Congress enacted the Enhanced 911 Act for the specific purpose of enhancing and promoting Homeland Security, public safety and citizen activated emergency response capabilities. These goals and other related responsibilities imposed on wireless service providers can only be satisfied if Cellco maintains a ubiquitous and reliable wireless network.

Included as Attachment 6 is a copy of the FCC's authorization issued to Cellco for its wireless service in Litchfield County, Connecticut. The FCC's rules permit a licensee to modify its system, including the addition of new cell sites, without prior approval by the FCC, as long as the licensee's authorized service area is not enlarged. The Cornwall Facility would not enlarge Cellco's authorized service area.

B. Public Need and System Design

1. Public Need

As noted above, the Act has pre-empted any state or local determination of public need for wireless services. In Litchfield County, Cellco holds FCC Licenses to provide cellular, PCS and LTE wireless services. Pursuant to its FCC Licenses, Cellco has developed and continues to develop a network of cell sites to serve the demand for wireless service in the area. Cellco's

network currently provides some limited coverage in Cornwall and the surrounding Towns from its existing Sharon North, Cornwall 2, Sharon 2, Mohawk Mountain and Goshen cell sites. Coverage from these existing facilities, alone and together with the coverage from the proposed Cornwall Facility are included as Attachment 7.[3]

2. System Design and Equipment

a. System Design

Cellco's wireless system in general and the proposed Cornwall Facility, in particular, have been designed and developed to allow Cellco to achieve and to maintain high quality, reliable wireless service without interruption from dropped calls and interference.

The system design provides for frequency reuse and hand-off, is capable of orderly expansion and is compatible with other wireless systems. The resulting quality of service compares favorably with the quality of service provided by conventional wireline telephone service. The wireless system is designed to assure a true cellular configuration of base transmitters and receivers in order to cover the proposed service area effectively while providing the highest quality of service possible. Cell site transmissions are carefully tailored to the FCC's technical standards with respect to coverage and interference and to minimize the amount of power that is radiated.

Mobile telephone switching offices ("MTSOs") in Windsor and Wallingford are interconnected and operate Cellco's wireless systems in Connecticut as a single network, offering the subscriber uninterrupted use of the system while traveling throughout the State. This network is further interconnected with the local exchange company ("LEC") and inter-lata (long distance) carriers network.

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[3] Coverage at LTE frequencies is depicted on a "stand alone" coverage plot at the proposed Cornwall Facility. LTE coverage is not currently deployed at any of Cellco's existing cell sites in the Cornwall area.

Cellco has designed its wireless system in conformity with applicable standards and constraints for wireless systems. Cellco's system is also designed to minimize the need for additional cell sites in the absence of additional demand or unforeseen circumstances.

b. Cellular System Equipment

The key elements of the cellular system are the two MTSOs located in Windsor and Wallingford and the various connector cell sites around the state. Cellco's CDMA wireless networks are deployed on two platforms: the earlier AUTOPLEX system, using Series II base stations, and the newer FLEXENT CDMA system, using smaller, more compact modular base stations. Because the Series II base stations are no longer manufactured, the newer CDMA systems, using smaller, more compact modular base stations are used for all current installations.

The major electronic components of each cell site are radio frequency transmission and receiving equipment and cell site controller equipment. Cellco's cellular system uses Lucent Flexent® Modular Cell 4.0B cell site equipment to provide complete cell site control and performance monitoring. This equipment is capable of expanding in modules to meet system growth needs. The cell site equipment primarily provides for: message control on the calling channel; call setup and supervision; radio frequency equipment control; internal diagnostics; response to remote and local test commands; data from the mobile or portable unit in both directions and on all channels; scan receiver control; transmission of power control commands; rescanning of all timing; and commands and voice channel assignment. Additional information with respect to the Lucent Flexent® Modular Cell 4.0B equipment is contained in Attachment 8.

3. Technological Alternatives

Cellco submits that there are no equally effective technological alternatives to the proposal contained herein. In fact, Cellco's wireless system represents state-of-the-art technology offering high-quality service. Cellco is aware of no viable and currently available alternatives to its system design for carriers licensed by the FCC.

C. Site Selection and Tower Sharing

1. Cell Site Selection

Cellco's goal in selecting cell sites such as the one proposed here is to locate its facility in such a manner as to allow it to build and to operate a high-quality wireless system with the least environmental impact. Cellco has determined that the proposed Cornwall Facility will satisfy this goal and is necessary to resolve existing coverage problems and to provide high-quality reliable service along portions of Route 7 and Route 4, as well as local roads in the area.

The methodology of cell site selection for Cellco's wireless system generally limits the search for possible locations to specific locations on the overall grid for the area. A list of existing towers or other non-tower structures considered is included in Attachment 9. Cellco currently shares each of the existing towers in the area including those sites identified on the coverage maps. (See Attachment 7). These existing tower sites cannot satisfy Cellco's coverage objectives for the Cornwall search area. Cellco also regularly investigates the use of existing, non-tower structures in an area, when available, as an alternative to building a new tower. No existing non-tower structures of suitable height exist in the Cornwall area. The site search summary, together with the site information contained in Attachment 2, support Cellco's position that the site selected represents the most feasible alternative of the sites investigated.

2. Tower Sharing

Cellco will design its Cornwall Facility and compound area so that it could be shared by a minimum of four wireless carriers and the Town, if a need exists. This type of tower sharing arrangement would reduce, if not eliminate, the need for these other carriers or municipal entities to develop a separate tower in this same area in the future. As of the date of this filing, no other carrier has expressed any interest in the Cornwall Facility.

D. Cell Site Information

1. Site Facilities

At the Cornwall Facility, Cellco would construct a 110-foot tall tower and install fifteen (15) panel-type directional antennas with their centerline height at 110 feet. The tops of Cellco's antennas will extend approximately three feet above the top of the tower. Cellco would also install a 12' x 24' single-story shelter near the base of the tower to house Cellco's receiving, transmitting, switching, processing and performance monitoring equipment and the required heating and cooling equipment. A diesel-fueled generator would be installed within a segregated room in Cellco's equipment shelter for use during power outages and periodically for maintenance purposes. The tower and equipment shelter would be surrounded by an 8-foot high security fence and gate. (See Attachment 2).

The equipment shelter would be equipped with silent intrusion and systems alarms. Cellco personnel will be available on a 24-hour basis to receive and to respond to incoming alarms. The equipment building will remain unstaffed, except as required for periodic maintenance purposes.

2. Overall Costs and Benefits

Aside from the limited visual impacts discussed further below, Cellco believes that there are no significant costs attendant to the construction, maintenance, and operation of the proposed cell

site. In fact, the public will benefit substantially from its increased ability to receive high-quality, reliable wireless service in Cornwall.[4] The Cornwall Facility would be a part of a communications system that addresses the public need identified by the FCC and the United States Congress for high-quality, competitive mobile and portable wireless service. Moreover, the proposed cell site would be part of a system designed to limit the need for additional cell sites in the future.

The overall costs to Cellco for development of the proposed cell site are set forth in Section III.E. of the Application.

3. Environmental Compatibility

Pursuant to Section 16-50p of the General Statutes, in its review of the Application, the Council is required to find and to determine, among other things, the nature of the probable environmental impact, including a specification of every significant adverse effect of the Cornwall Facility, whether alone or cumulatively with other effects, on, and conflicting with the policies of the state concerning the natural environment, ecological balance, public health and safety, scenic, historic and recreational values, forests and parks, air and water purity and fish and wildlife.

a. Primary Facility Impact is Visual

The wireless system of which the proposed Cornwall Facility would be a part has been designed to meet the public need for high-quality, reliable wireless service while minimizing any potential adverse environmental impact. In part because there are few, if any other adverse impacts,

[4] Businesses across the State have become more dependent on wireless telecommunication services. The public safety benefits of wireless telephone service are illustrated by the Connecticut State Police enhanced 911 ("E-911") emergency calling system. The E-911 emergency calling system is available statewide to all wireless telephone users. Numerous other emergency service organizations have turned to wireless telephone service for use during natural disasters and severe storms when wireline service is interrupted or unavailable. As a deterrent to crime, the general public will further benefit from the Cellular Telecommunications Industry Association's donation of cellular phones to "Neighborhood Watch" groups nationwide.

the primary impact of facilities such as this is visual. This visual impact will vary from location to location around a tower, depending upon factors such as vegetation, topography, the distance of nearby properties from the tower and the location of buildings and roadways in a "sight line" toward the tower. Similarly, visual impact of a tower facility can be further reduced through the proper use of alternative tower structures; so-called "stealth installations." Where appropriate, telecommunications towers camouflaged as trees, can help to further reduce visual impacts associated with these structures. Attachment 10 contains a detailed Visual Resource Evaluation Report, prepared by VHB, Inc. (the "VHB Report") that assesses the visual impact of the proposed tower and includes photosimulations of the tower at this site for the Council's consideration. According to the VHB Report, areas where the tower would be visible above the tree canopy comprise approximately fourteen (14) acres or less than one-half of one percent of the 8,042 acre study area. The areas of year-round visibility associated with the Cornwall Facility is generally limited to the area in the immediate vicinity of the Cornwall Facility. Other areas of year-round visibility exist, but most are more than 1.5 to 2.0 miles from the tower. Areas where seasonal views are anticipated comprise of approximately thirteen (13) additional acres and are generally limited to the host property or in the immediate vicinity of the Cornwall Facility.

There is only one residence within 1,000 feet of the Cornwall Facility. That residence is owned by Cellco's landlord and is located on the Property approximately 500 feet to the southeast. The closest off-site residence is located approximately 1,300 feet to the southeast.

Weather permitting, Cellco will raise a balloon with a diameter of at least three (3) feet at the proposed cell site on the day of the Council's hearing on this Application, or at a time otherwise specified by the Council.

b. Environmental Reviews and Agency Comments

Section 16-50j of the General Statutes requires the Council to consult with and to solicit comments on the Application from the Commissioners of the Departments of Environmental Protection, Public Health, Public Utility Control, Economic Development, and Transportation, the Council on Environmental Quality, and the Office of Policy and Management, Energy Division. In addition to the Council's solicitation of comments, Cellco, as a part of its National Environmental Policy Act ("NEPA") Checklist, solicits comments on the proposed facility from the U.S. Department of the Interior, Fish and Wildlife Service ("USFWS"), Environmental and Geographic Information Center of the Connecticut Department of Environmental Protection ("DEP") and the Connecticut Historical Commission, State Historic Preservation Officer ("SHPO"). Information on the USFWS and DEP reviews regarding impacts on known populations of Federal or State Endangered, Threatened or Special Concern Species occurring at the proposed site are included in Attachment 11. According to the USFWS letter dated January 4, 2010 and a confirming memorandum from Dean Gustafson at VHB, Inc. dated April 1, 2010, no federally-listed or proposed, threatened or endangered species or critical habitat are known to occur in Cornwall, Connecticut (Litchfield County). The development of the Cornwall Facility, therefore, will not have an adverse effect to any federally listed, endangered or threatened species.

In an June 11, 2009 letter, the DEP also confirmed that there are no known extant populations of Federal or State Endangered, Threatened or Special Concern species that occur at the Property. A copy of the USFWS information and Mr. Gustafson's April 1, 2010 memorandum and the DEP's June 11, 2009 letter are included as a part of Attachment 11.

Also included in Attachment 11 is a letter from the SHPO confirming that the Cornwall Facility will have no effect on historic, architectural or archeological resources listed on or eligible for the National Register of Historic Places.

This review by federal and state agencies furnishes ample expert opinion on the potential environmental impacts from the Cornwall Facility, in the context of the criteria which the Council must consider.

c. Non-Ionizing Radio Frequency Radiation

The FCC has adopted a standard for exposure to Radio Frequency ("RF") emissions from telecommunications facilities like the one proposed in this Application. To ensure compliance with the applicable standards, Cellco has performed maximum power density calculations for the proposed cell site according to the methodology prescribed by the FCC Office of Engineering and Technology Bulletin No. 65E, Edition 97-01 (August 1997) ("OET Bulletin 65"). The calculation is a conservative, worst-case approximation for RF power density levels at the closest accessible point to the antennas, in this case the base of the tower, and with all antennas transmitting simultaneously on all channels at full power. The calculations indicate that the maximum power density level for Cellco's cellular, PCS and LTE antennas would be 35.11% of the Standard at the Cornwall Facility.

d. Other Environmental Issues

No sanitary facilities are required for the Cornwall Facility. The operations at the Cornwall Facility will not cause any significant air, water, noise or other environmental impacts, or hazard to human health.

Based on agency comments received and field investigations by Cellco's project team, Cellco submits that the proposed facility will have no significant adverse effect on scenic, natural,

historic or recreational features, and that none of the potential effects from the Cornwall Facility alone or cumulatively with other effects is sufficient reason to deny this Application.

4. Consistency with Local Land Use Controls

The Council Application Guide for Community Antenna Television and Telecommunication Facilities, as amended on February 16, 2007, requires the inclusion of a narrative summary of the project's consistency with the Town's Plan of Development and Zoning Regulations, as well as a description of planned and existing uses of the site location and surrounding properties.

a. Planned and Existing Land Uses

The proposed Cornwall Facility would be located in the westerly portion of an approximately 41-acre parcel owned by Ralph Gulliver, Jr. The Property is zoned R-5 Residential and used for residential purposes. The only residence of the Property is located approximately 500 feet to the southeast of the tower compound. The Property is surrounded by portions of the Housatonic State Forest to the west, and large lot residential parcels to the north, east and south.

b. Town Plan of Conservation and Development

The Town of Cornwall Plan of Conservation & Development (the "Plan") effective date December 18, 1998, does not identify telecommunications towers as a land use consistent or inconsistent with the general planning and conservation policies of the Town of Cornwall. Copies of the Plan were filed as a Bulk File Exhibit on May 6, 2010.

c. Zoning Regulations

According to the Cornwall Zoning Map, the Property is located in the R-5 Residential (5-acres) zone district. Pursuant to Section 3.3 of the Cornwall Zoning Regulations (the

"Regulations"), antennas, towers and wireless communications facilities are permitted in any residential zone subject to the approval of a Special Permit by the Cornwall Planning and Zoning Commission.

Section 8.24.04.1.2 of the Regulations identifies the Town's preferred locations for free-standing towers as areas "where the existing topography, vegetation, buildings, or other structures provide the greatest amount of screening and have the least long range visual affect." Additional preferences include, Town-owned land, area "off ridgelines" and in low population density areas. As discussed in more detail in the Visual Impact Assessment included behind Attachment 10 of the Application, the proposed cell site satisfies the requirements and qualifies as a preferred location.

The zoning regulations also identify certain areas of "special concern" in Cornwall and include the Cornwall Plains, the West Cornwall area, the Cornwall Bridge, the Housatonic River overlay zone (inner and outer corridor), existing protective open space properties and areas ranked high for protection in accordance with Section 1 of the Town Plan. Due to its location in a heavily-wooded area, its height and the intervening landscape, Cellco respectfully submits that the proposed Cornwall Facility will not be visible from these areas of "special concern".

The proposed Cornwall cell site also satisfies the vegetated buffer requirements set forth in Section 8.24.04.2.2, of the Regulations which requires a minimum 50-foot vegetated buffer around the proposed facility. Existing vegetation may be included in this determination. Many, if not all other aspects included in Section 8.24 of the Regulations require the submission of information already included in the Siting Council application package.

d. Inland Wetlands and Watercourses Regulations

The Inland Wetlands and Watercourses Regulations of the Town of Cornwall (the "IWW Regulations") define Regulated Activity as any operation within, or use of, a wetland or watercourse or deposition of material or any obstruction, construction, alteration or pollution, of such wetlands or watercourses.

Dean Gustafson, Professional Soil Scientist with VHB, Inc., conducted a field investigation and completed a Wetlands Delineation Report and Wetland Impact Analysis for development of the Cornwall Facility. Mr. Gustafson identified two wetland areas (Wetlands 1 and 2) on or adjacent to the Property, proximate to the existing gravel driveway Cellco intends to use for access to the Cornwall Facility. An existing culvert conveys flows from Wetland 2 to Wetland 1. This portion of the driveway is currently used by the property owner. Proposed improvements to the existing gravel driveway proximate to the existing wetlands include widening the driveway to twelve (12) feet, stabilizing the road base with gravel and the replacement of the existing 24" metal culvert with a new 24" reinforced concrete pipe. The temporary and permanent wetland impacts associated with these improvements will not result in any adverse impacts to the wetland functions and values. (See Wetland Delineation Sketch included in Attachment 12.)

In accordance with the Connecticut Soil Erosion Control Guidelines, as established by the Council for Soil and Water Conservation, adequate and appropriate soil erosion and sedimentation control measures will be established and maintained throughout the cell site construction period. In addition, Cellco will employ appropriate construction management

practices to ensure that no pollutants would be discharged to any nearby watercourse or wetland areas or to area groundwater during the construction process.

According to the Federal Emergency Management Agency Flood Insurance Rate Map ("FIRM"), Community Panel Number 0900450014A (Map Revised: August 16, 1988), the Facility would be located in Flood Zone X, an area of minimal flooding above the 500 year flood level. A copy of the FIRM is also included in Attachment 12.

5. Local Input

Section 16-50*l*(e) of the Connecticut General Statutes, as amended, requires local input on matters before the Council. In the Fall of 2008, Cellco representatives contacted and then met with First Selectman Gordon Ridgway, members of the Board of Selectmen and members of the general public to discuss, generally, Cellco's plans to expand its wireless network in Cornwall. This initial discussion focused on Cellco's existing sites in and around Cornwall, its plan to modify its Mohawk Mountain facility and its plans to develop a tower site on property at 78 Popple Swamp Road. Due to concerns raised about the proposed cell site location, Cellco was asked to investigate alternative cell site locations. On July 21, 2009, Cellco representatives again met with First Selectman Ridgway, members of the Board of Selectmen and invited members of the general public to commence the 60-day municipal consultation process, prior to the filing of this Council application. At that time, Cellco presented municipal officials with two alternative cell site locations that it planned to include in a Council application; one at 78 Popple Swamp Road and one at 16 Bell Road Extension. Mr. Ridgway asked that Cellco host a public information meeting/hearing and present, to members of the public, details of the proposed telecommunications facility application. The public information meeting was held on August 20, 2009, and was

attended by elected officials and members of the public, including adjacent property owners. Notice of the public information meeting was published in the *Waterbury Republican-American*. Personal notice was sent to the owners of property whose land abuts one of the two alternative sites under consideration at that time. The public information meeting was attended by approximately 30 residents, property owners and public officials.

Following the public information meeting and the completion of additional site engineering for each of the proposed cell site locations, Cellco decided to withdraw the 78 Popple Swamp Road from further consideration due to the significance of the environmental effects of a facility at this location. Mr. Ridgway was notified of Cellco's intent to withdraw the Popple Swamp Road site from further consideration in November of 2009.

6. Consultations With State and Federal Officials

Attachment 11 and Section III.D. of the Application describe Cellco's consultations with state and federal officials regarding Cellco's proposed Cornwall Facility.

a. Federal Communications Commission

The FCC did not review this particular proposal. As discussed above, FCC approval is not required where the authorized service area is not enlarged.

b. Federal Aviation Administration

As it does with all of its tower applications, Cellco conducted the appropriate air-space analysis for the proposed Cornwall Facility to determine if the proposed tower would constitute an obstruction or hazard to air navigation. Cellco's analysis has confirmed, pursuant to FAA standards and guidelines, that the proposed tower would not constitute an obstruction or hazard to air navigation and therefore no obstruction marking or lighting would be required. A copy of the Federal Airways & Airspace Summary Report is included in Attachment 13.

c. United States Fish and Wildlife Service

According to the USFWS, there are no federally-listed, threatened or endangered species that are known to occur in Cornwall, Connecticut. (See VHB Memorandum dated April 1, 2010, included in Attachment 11).

d. Connecticut Department of Environmental Protection

(1) Environmental and Geographic Information Center

As discussed above, the DEP determined that there are no extant populations of Federal or State Endangered, Threatened or Special Concern Species that occur at the Property. (See DEP correspondence dated June 11, 2009, included in Attachment 11).

(2) Bureau of Air Management

Pursuant to R.C.S.A. § 22a-174-3, the on-site emergency back-up generator proposed as a part of this Application will require the issuance of a permit from the DEP Bureau of Air Management. As proposed, this emergency generator will be run only during the interruption of utility service to the cell site and periodically as required for maintenance purposes. Cellco will obtain the necessary permit prior to installing the generator at the Cornwall Facility.

e. Connecticut State Historic Preservation Officer

As discussed above, Attachment 11 also includes the SHPO's determination that the proposed Cornwall Facility will have no effect on historic, architectural or archaeological resources listed on or eligible for the National Register of Historic Places.

E. Estimated Cost and Schedule

1. Overall Estimated Costs

The total estimated cost of construction of the proposed facility is $995,000. This estimate includes:

(1)	Cell site radio equipment of approximately	$450,000
(2)	Tower, coax and antenna costs of approximately	150,000
(3)	Power systems costs of approximately	40,000
(4)	Equipment building costs of approximately	50,000
(5)	Miscellaneous costs (including site preparation and installation) of approximately	305,000

2. Overall Scheduling

Site preparation and engineering would commence following Council approval of Cellco's Development and Maintenance ("D&M") Plan and are expected to be completed within two to four weeks. Due to the delivery schedules of the manufacturers, installation of the building and installation of the tower are expected to take an additional two weeks. Equipment installation is expected to take an additional two weeks after installation of the building and installation of the tower. Cell site integration and system testing is expected to require two weeks after equipment installation.

IV. CONCLUSION

Based on the facts contained in this Application, Cellco submits that the establishment of the Cornwall Facility, at the Property will not have any substantial adverse environmental effects. A public need exists for high quality reliable wireless service in the Cornwall area and throughout upper Litchfield County, as determined by the FCC and the United States Congress, and a competitive framework for providing such service has been established by the FCC and the Telecommunications Act of 1996. Cellco submits that the public need far outweighs any potential environmental effects resulting from the construction of the Cornwall Facility.

WHEREFORE, Cellco respectfully requests that the Council grant this Application for a Certificate of Environmental Compatibility and Public Need for the proposed Cornwall Facility.

Respectfully submitted,

CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS

By: _____

Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, Connecticut 06103-3597
(860) 275-8200
Attorneys for the Applicant

APPLICATION GUIDE[1]

App. pp. i-iii	(A)	An Executive Summary on the first page of the application with the address, proposed height, and type of tower being proposed. A map showing the location of the proposed site should accompany the description;
App. pp. 1-3	(B)	A brief description of the proposed facility, including the proposed locations and heights of each of the various proposed sites of the facility, including all candidates referred to in the application;
App. pp. 1-3	(C)	A statement of the purpose for which the application is made;
App. p. 1	(D)	A statement describing the statutory authority for such application;
App. p. 4	(E)	The exact legal name of each person seeking the authorization or relief and the address or principal place of business of each such person. If any applicant is a corporation, trust association, or other organized group, it shall also give the state under the laws of which it was created or organized;
App. p. 4	(F)	The name, title, address and telephone number of the attorney or other person to whom correspondence or communications in regard to the application are to be addressed. Notice, orders, and other papers may be served upon the person so named, and such service shall be deemed to be service upon the applicant;
App. pp. 8-9 Attachments 2 and 7	(G)	A statement of the need for the proposed facility with as much specific information as is practicable to demonstrate the need, including a description of the proposed system and how the proposed facility would eliminate or alleviate any existing deficiency or limitation;
App. pp. 12-13	(H)	A statement of the benefits expected from the proposed facility with as much specific information as is practicable;

[1] This Application Guide is copied directly from the "Connecticut Siting Council Application Guide," Section VI, as amended February 16, 2007. References to the Regulations of Connecticut State Agencies ("RCSA") contained in the Guide have been omitted.

App. pp. 1-3, 12
Attachment 2

(I) A description of the proposed facility at the named sites including:

(1) Height of the tower and its associated antennas including a maximum "not to exceed height" for the facility, which may be higher than the height proposed by the Applicant;
(2) Access roads and utility services;
(3) Special design features;
(4) Type, size, and number of transmitters and receivers, as well as the signal frequency and conservative worst-case and estimated operational level approximation of electro magnetic radio frequency power density levels (facility using FCC Office of Engineering and Technology Bulletin 65, August 1997) at the base of the tower base, site compound boundary where persons are likely to be exposed to maximum power densities from the facility;
(5) A map showing any fixed facilities with which the proposed facility would interact;
(6) The coverage signal strength, and integration of the proposed facility with any adjacent fixed facility, to be accompanied by multi-colored propagation maps of red, green and yellow (exact colors may differ depending on computer modeling used, but a legend is required to explain each color used) showing interfaces with any adjacent service areas, including a map scale and north arrows; and
(7) For cellular systems, a forecast of when maximum capacity would be reached for the proposed facility and for facilities that would be integrated with the proposed facility.

Attachment 2

(J) A description of the named sites, including:

(1) The most recent U.S.G.S. topographic quadrangle map (scale 1 inch = 2,000 feet) marked to show the site of the facility and any significant changes within a one-mile radius of the site;

(2) A map (scale not less than 1 inch = 200 feet) of the lot or tract on which the facility is proposed to be located showing the acreage and dimensions of such site, the name and location of adjoining public roads or the nearest public road, and the names of abutting owners and the portions of their lands abutting the site;

(3) A site plan (scale not less than 1 inch = 40 feet) showing the proposed facility, set back radius, existing and proposed contour elevations, 100-year flood zones, waterways, wetlands, and all associated equipment and structures on the site;

(4) Where relevant, a terrain profile showing the proposed facility and access road with existing and proposed grades; and

(5) The most recent aerial photograph (scale not less than 1 inch = 1,000 feet) showing the proposed site, access roads, and all abutting properties.

Attachment 2

(K) A statement explaining mitigation measures for the proposed facility including:

(1) Construction techniques designed specifically to minimize adverse effects on natural areas and sensitive areas;

(2) Special design features made specifically to avoid or minimize adverse effects on natural areas and sensitive areas;

(3) Establishment of vegetation proposed near residential, recreation, and scenic areas; and

(4) Methods for preservation of vegetation for wildlife habitat and screening.

App. pp. 1-3 and 17
Attachment 9

(L) A description of the existing and planned land uses of the named sites and surrounding areas;

App. pp. 13-16 Attachments 10 and 11	(M)	A description of the scenic, natural, historic, and recreational characteristics of the names sites and surrounding areas including officially designated nearby hiking trails and scenic roads;
Attachment 10	(N)	Sight line graphs to the named sites from visually impacted areas such as residential developments, recreational areas and historic sites;
Attachment 9	(O)	A list describing the type and height of all existing and proposed towers and facilities within a four mile radius within the site search area, or within any other area from which use of the proposed towers might be feasible from a location standpoint for purposes of the application;
App. p. 12	(P)	A description of efforts to share existing towers, or consolidate telecommunications antennas of public and private services onto the proposed facility including efforts to offer tower space, where feasible, at no charge for space for municipal antennas;
App. p. 11 Attachment 12	(Q)	A description of technological alternatives and a statement containing justification for the proposed facility;
N/A	(R)	A description of rejected sites with a U.S.G.S. topographic quadrangle map (scale 1 inch = 2,000 feet) marked to show the location of rejected sites;
Attachment 2	(S)	A detailed description and justification for the site(s) selected, including a description of siting criteria and the narrowing process by which other possible sites were considered and eliminated including, but not limited to, environmental effects, cost differential, coverage lost or gained, potential interference with other facilities, and signal loss due to geographic features compared to the proposed site(s);
App. p. 16	(T)	A statement describing hazards to human health, if any, with such supporting data and references to regulatory standards;
App. pp. 22-23	(U)	A statement of estimated costs for site acquisition, construction, and equipment for a facility at the various proposed sites of the facility, including all candidates referred to in the application;

App. p. 23	(V)	A schedule showing the proposed program of site acquisition, construction, completion, operation and relocation or removal of existing facilities for the named sites;
App. p. 14	(W)	A statement indicating that, weather permitting, the applicant will raise a balloon with a diameter of at least three feet, at the sites of the various proposed sites of the facility, including all candidates referred to in the application, on the day of the Council's first hearing session on the application or at a time otherwise specified by the Council. For the convenience of the public, this event shall be publicly noticed at least 30 days prior to the hearing on the application as scheduled by the Council;
App. pp. 13-20 Attachments 3 and 9 Bulk File Exhibits	(X)	Such information as any department or agency of the State exercising environmental controls may, by regulation, require including: (1) A listing of any federal, state, regional, district, and municipal agencies, including but not limited to the Federal Aviation Administration; Federal Communications Commission; State Historic Preservation Officer; State Department of Environmental Protection; and local conservation, inland wetland, and planning and zoning commissions with which reviews were conducted concerning the facility, including a copy of any agency position or decision with respect to the facility; and (2) The most recent conservation, inland wetland, zoning, and plan of development documents of the municipality, including a description of the zoning classification of the site and surrounding areas, and a narrative summary of the consistency of the project with the Town's regulations and plans.
Attachment 2 (Project Plans)	(Y)	Description of proposed site clearing for access road and compound including type of vegetation scheduled for removal and quantity of trees greater than six inches diameter at breast height and involvement with wetlands;
N/A	(Z)	Such information as the applicant may consider relevant.

CORNWALL

16 Bell Road Extension
Cornwall, Connecticut

Description of Proposed Cell Site

Cellco Partnership d/b/a Verizon Wireless
99 East River Drive
East Hartford, CT 06108

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U.S.G.S. TOPOGRAPHIC MAP 2

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FACILITIES AND EQUIPMENT SPECIFICATION 6

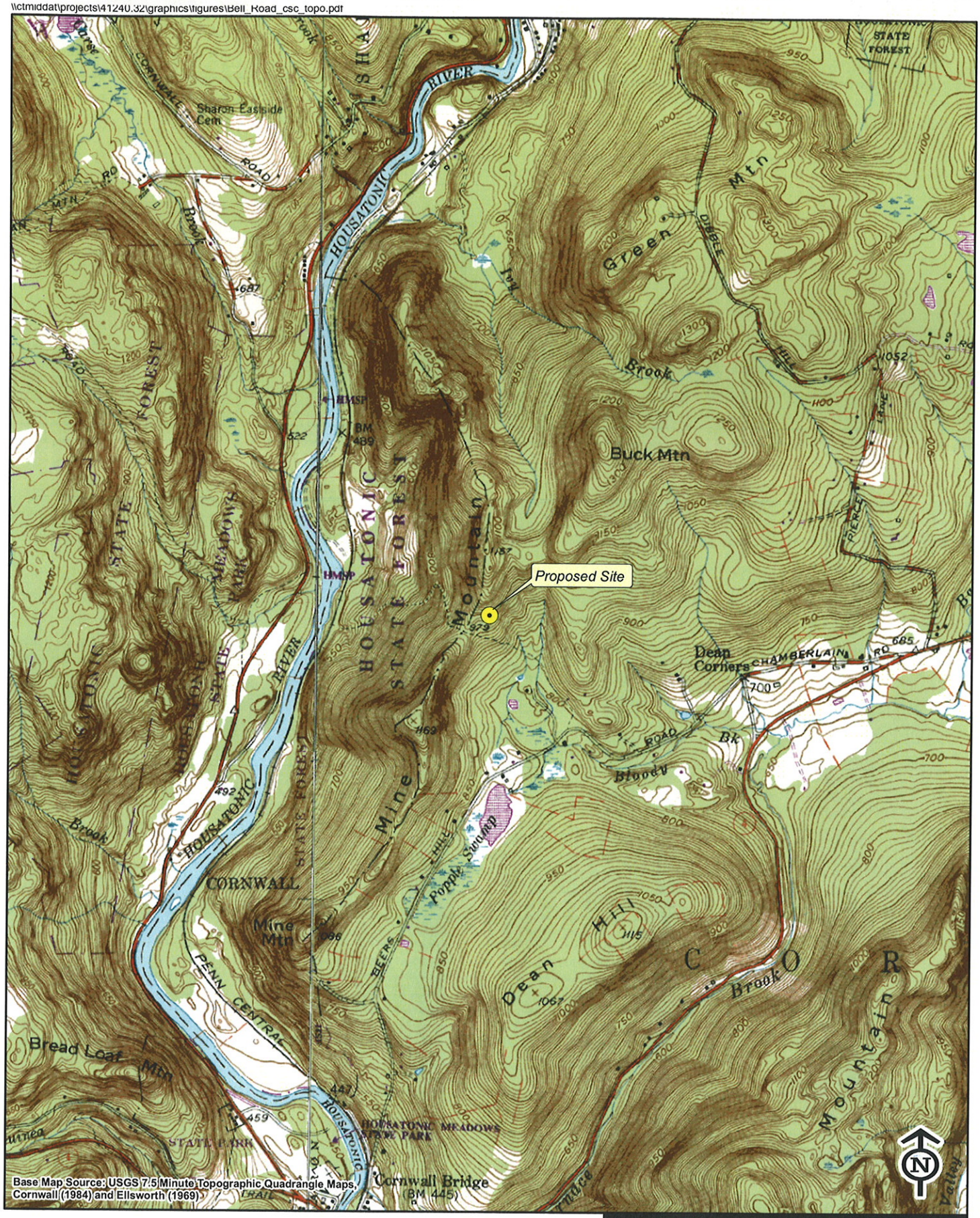
ENVIRONMENTAL ASSESSMENT STATEMENT 7

SITE NAME: CORNWALL – 16 Bell Road Extension, Cornwall, CT

GENERAL CELL SITE DESCRIPTION

The proposed cell site would be located in the westerly portion of an approximately 41 acre parcel at 16 Bell Road Extension ("Property"). The Property is owned by Ralph Gulliver, Jr. The facility would consist of a 110-foot telecommunications tower and a 12' x 24' equipment shelter to house its radio equipment and a back-up generator, within a 34' x 70' fenced compound (the "Cornwall Facility"). Cellco antennas would be mounted at the top of the tower with their centerline at the 110-foot level. The tops of Cellco's antennas would extend above the top of the tower. Vehicular access to the site would extend from Bell Road over an existing gravel driveway a distance of approximately 1,675 feet then over a new gravel driveway an additional distance of approximately 545 feet to the cell site. Utility service would extend underground from existing service on the Property to the cell site.

\\ctmiddat\projects\41240.32\graphics\figures\Bell_Road_csc_topo.pdf



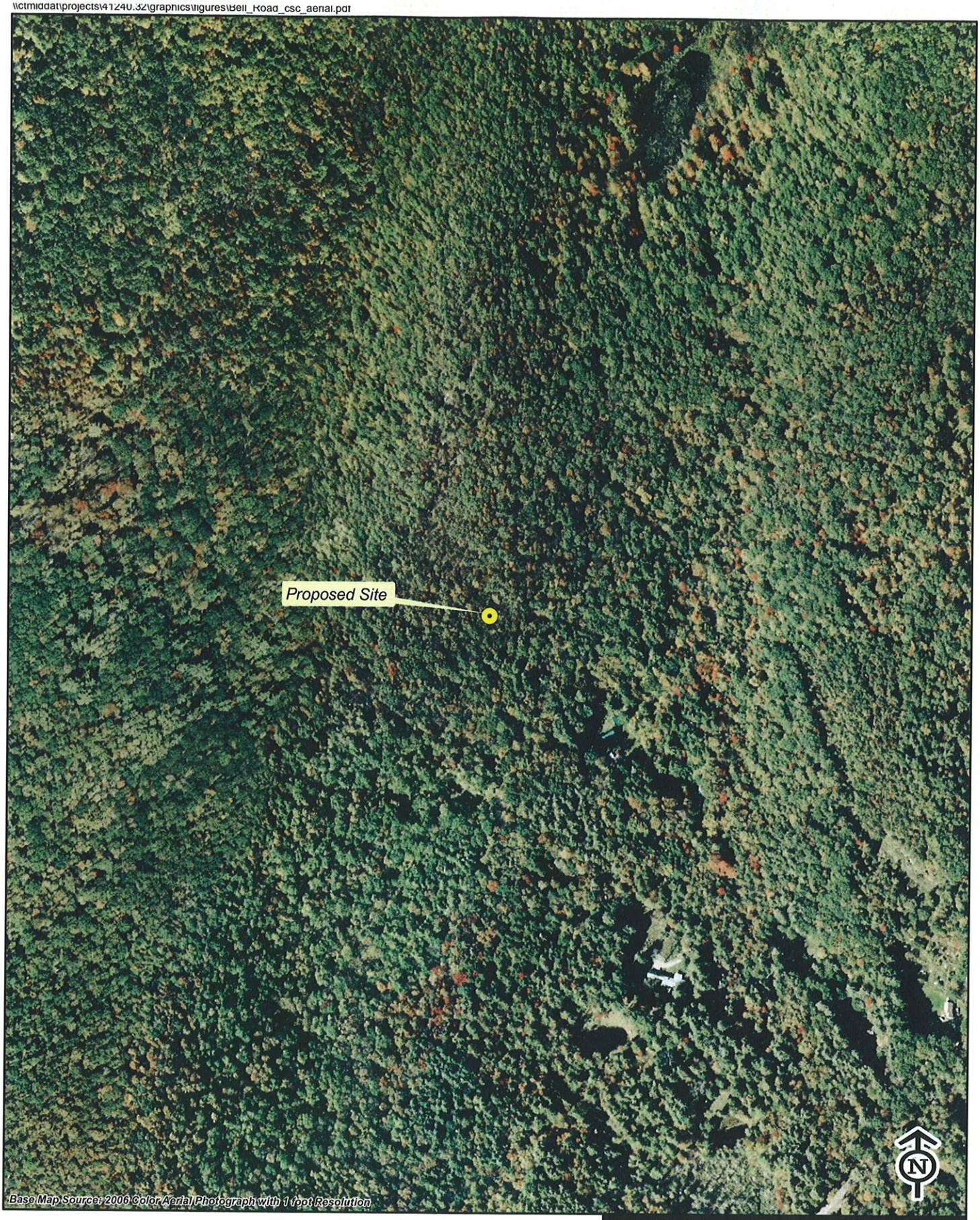
Vanasse Hangen Brustlin, Inc.

2,000 1,000 0 2,000 Feet

Quadrangle Location

USGS Topographic Map
Proposed Verizon Wireless
Telecommunications Facility
Cornwall
16 Bell Road Extension
Cornwall,Connecticut

\\ctmiddat\projects\41240.32\graphics\figures\Bell_Road_csc_aerial.pdf



400 200 0 400
Feet

Vanasse Hangen Brustlin, Inc.

Aerial Photograph
Proposed Verizon Wireless
Telecommunications Facility
Cornwall
16 Bell Road Extension
Cornwall, Connecticut

Quadrangle Location

SITE EVALUATION REPORT

SITE NAME: CORNWALL – 16 Bell Road Extension, Cornwall, CT

I. LOCATION

A. COORDINATES: 41°-50'-44.8" N 73°-21'-51.5" W

B. GROUND ELEVATION: Approximately 999.8± feet AMSL

C. USGS MAP: Cornwall, CT

D. SITE ADDRESS: 16 Bell Road Extension, Cornwall, CT

E. ZONING WITHIN 1/4 MILE OF SITE: Land within 1/4 mile of the cell site is in the R-5 Residential zone district.

II. DESCRIPTION

A. SITE SIZE: 100' x 100' Leased Area

B. LESSOR'S PARCEL: Approximately 41 acres

C. TOWER TYPE/HEIGHT: 110' Monopole Tower

D. SITE TOPOGRAPHY AND SURFACE: Topography on the Property slopes up from east to west. Clearing and grading of the leased area, site compound and westerly (new) portion of the access driveway will be required.

E. SURROUNDING TERRAIN, VEGETATION, WETLANDS, OR WATER: The tower is located in the westerly portion of a 41 acre heavily-wooded parcel. No wetland areas exist within or near the site compound or along the new portion of the access driveway. A portion of the existing access driveway runs between two wetlands approximately 620 feet southeast of the cell site.

F. LAND USE WITHIN 1/4 MILE OF SITE: The Cornwall Facility is located on a 41 acre parcel. A residence exists in the central portion of the Property to the southwest of the tower site. The balance of the parcel is heavily-wooded and undeveloped. The Property is surrounded by vacant wooded land, low density residential land uses along Bell Road and Popple Swamp Road, and the Housatonic State Forest to the west. (See Aerial Photograph at p. ii).

III. FACILITIES

A. POWER COMPANY: Connecticut Light and Power

B. POWER PROXIMITY TO SITE: Approximately 1,620 feet to the southeast of the cell site.

C. TELEPHONE COMPANY: AT&T

D. PHONE SERVICE PROXIMITY: Same as power

E. VEHICLE ACCESS TO SITE: Vehicle access to the site would extend from Bell Road over an existing gravel driveway a distance of approximately 1,675 feet, then over a new gravel driveway extension an additional 545 feet to the cell site.

F. CLEARING AND FILL REQUIRED: Clearing and grading will be required for construction of the tower, site compound and new portion of the access drive. Detailed construction plans would be developed after approval by the Siting Council.

IV. LEGAL

A. PURCHASE [ ] LEASE [X]

B. OWNER: Ralph Gulliver, Jr.

C. ADDRESS: 16 Bell Read Extension, Cornwall, CT 06754

D. DEED ON FILE AT: Town of Cornwall, CT Land Records

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FACILITIES AND EQUIPMENT SPECIFICATION
(NEW TOWER & EQUIPMENT BUILDING)

SITE NAME: CORNWALL – 16 Bell Road Extension, Cornwall, CT

I. TOWER SPECIFICATIONS:

A. MANUFACTURER: To be determined

B. TYPE: Self-supporting monopole

C. TOWER HEIGHT: 110'

D. TOWER DIMENSIONS: Approx. 48" base

Approx. 30" top

II. TOWER LOADING:

A. CELLCO EQUIPMENT:

1. Antennas (15)
Six (6) Model LPA-80080/6CF_5 Cellular
Six (6) Model LPA-185080/12_4 PCS antennas
Three (3) Model BXA 80080/6_4CF LTE antennas
Antenna Centerline 110' AGL

2. GPS Antenna: Mounted on the top of the equipment shelter

3. Transmission Lines:
a. MFG/Model: Andrews LDF5-50A
b. Size: 1 5/8"

III. ENGINEERING ANALYSIS AND CERTIFICATION:

The towers will be designed in accordance with Electronic Industries Association Standard EIA/TIA-222-F "Structural Standards for Steel Antenna Towers and Antenna Support Structures." The foundation designs would be based on soil conditions at the site. Details for the towers and foundation designs will be provided as a part of the final D&M Plan.

ENVIRONMENTAL ASSESSMENT STATEMENT

SITE NAME: CORNWALL – 16 Bell Road Extension, Cornwall, CT

I. PHYSICAL IMPACT

A. WATER FLOW AND QUALITY

No water flow and/or water quality changes are anticipated as a result of the construction or operation of the facility. There are no lakes, ponds, rivers, streams, wetlands or other regulated bodies of water located in the area to be used for the access drive, tower or equipment shelter. The equipment used will not discharge any pollutants to area surface or groundwater systems.

B. AIR QUALITY

Under ordinary operating conditions, the equipment that would be used at the site would emit no air pollutants of any kind. For limited periods during power outages and periodically for maintenance purposes, minor levels of emissions from the on-site generator would result.

Pursuant to R.C.S.A. § 22a-174-3, the on-site emergency back-up generator proposed as a part of this application would require the issuance of a Connecticut Department of Environmental Protection Air Bureau permit for potential emissions. Cellco would obtain this permit prior to installing the generator at the approved cell site.

C. LAND

Clearing and grading of the tower compound and new portion of the access drive will be required. The remaining portion of the Property would remain unchanged by the construction and operation of the cell site.

D. NOISE

The equipment to be in operation at the site after construction would emit no noise of any kind, except for operation of the installed heating, air conditioning and ventilation systems and occasional operation of a back-up generator which would be run during power failures and periodically for maintenance purposes. Some noise is anticipated during cell site construction, which is expected to take approximately four to six weeks.

E. POWER DENSITY

The worst-case calculation of power density for Cellco's cellular, PCS and LTE antennas at the Cornwall Facility would be 35.11% of the Standard.

F. VISIBILITY

See Visual Resource Evaluation Report included as Attachment 10.

Cellco Partnership

d.b.a. verizon wireless

WIRELESS COMMUNICATIONS FACILITY

CORNWALL, CT
16 BELL ROAD EXTENSION
CORNWALL, CT 06754

SITE DIRECTIONS

FROM: 99 EAST RIVER DRIVE, EAST HARTFORD, CONNECTICUT **TO:** 16 BELL ROAD EXTENSION, CORNWALL, CONNECTICUT

1.Start out going Southeast toward E RIVER DR.	1.3 MI.
2.Turn Left to stay on E RIVER DR.	0.1 MI.
3.Turn Left onto US-44/CONNECTICUT BLVD	0.1 MI.
4.Take ramp Left for I-84 WEST	1.3 MI.
5.At Exit 48, take ramp Right for SPRING ST toward ASYLUM ST	0.1 MI.
6.Turn Right onto GARDEN ST	0.6 MI.
7.Site access is on right at golf cart crossing.	12.6 MI.
8.Turn Left onto US-44/ALBANY AVE	0.1 MI.
9.Bear Left onto US-202 SOUTH	10.9 MI.
10.Bear Right onto SR-4/E ELM ST	11.9 MI.
11.Turn Left to stay on SR-4/CEMETERY HILL RD	1.6 MI.
12.Bear Right onto POPPLE SWAMP RD	1.2 MI.
13.Turn Right onto BELL RD	0.2 MI.
14.Turn Left onto BELL ROAD EXT	

GENERAL NOTES

1. PROPOSED ANTENNA LOCATIONS AND HEIGHTS PROVIDED BY CELLCO PARTNERSHIP.

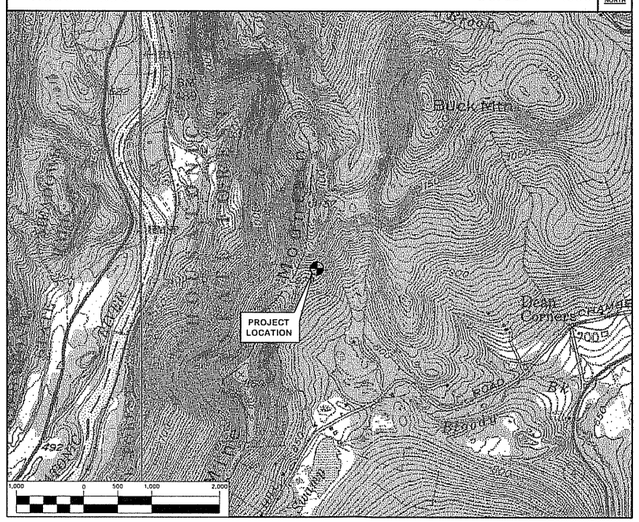
SITE INFORMATION

THE SCOPE OF WORK SHALL INCLUDE:

1. THE CONSTRUCTION OF A 34'x70' FENCED WIRELESS COMMUNICATIONS COMPOUND WITHIN A 100'x100' LEASE AREA.
2. A TOTAL OF FIFTEEN (15) DIRECTIONAL PANEL ANTENNAS ARE PROPOSED TO BE MOUNTED AT A CENTERLINE ELEVATION OF 110'-0"± AGL ON A 110' PROPOSED STEEL MONOPOLE TOWER LOCATED WITHIN THE PROPOSED COMPOUND.
3. A 12'x24' PREFABRICATED EQUIPMENT SHELTER WITH A DIESEL FUELED EMERGENCY POWER GENERATOR IS PROPOSED TO BE LOCATED WITHIN THE FENCED COMPOUND.
4. TOTAL ACCESS DRIVE LENGTH IS 2,220'±. APPROXIMATELY 1,675' OF EXISTING ACCESS DRIVE AND DIRT PATH WILL BE UTILIZED FOR SITE ACCESS.
5. POWER AND TELCO UTILITIES SHALL BE ROUTED UNDERGROUND FROM EXISTING RESPECTIVE DEMARCS TO THE PROPOSED UTILITY BACKBOARD LOCATED ADJACENT TO THE PROPOSED FENCED COMPOUND. UTILITIES WILL BE ROUTED FROM UTILITY BACKBOARD TO THE PROPOSED NOMINAL 12'x30' WIRELESS EQUIPMENT SHELTER LOCATED WITHIN THE COMPOUND. FINAL DEMARC LOCATION AND UTILITY ROUTING TO PROPOSED BACKBOARD WILL BE VERIFIED/DETERMINED BY LOCAL UTILITY COMPANIES.
6. FINAL DESIGN FOR TOWER AND ANTENNA MOUNTS SHALL BE INCLUDED IN THE D&M PLANS.
7. THE PROPOSED WIRELESS FACILITY INSTALLATION WILL BE DESIGNED IN ACCORDANCE WITH THE 2003 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2009 CONNECTICUT SUPPLEMENT.
8. THERE WILL NOT BE ANY LIGHTING UNLESS REQUIRED BY THE FCC OR THE FAA.
9. THERE WILL NOT BE ANY SIGNS OR ADVERTISING ON THE ANTENNAS OR EQUIPMENT.
10. FOR ADDITIONAL NOTES AND DETAILS REFER TO THE ACCOMPANYING DRAWINGS.

VICINITY MAP

SCALE: 1" = 1000' NORTH



PROJECT SUMMARY

SITE NAME:	CORNWALL, CT
SITE ADDRESS:	16 BELL ROAD EXTENSION CORNWALL, CT 06754
PROPERTY OWNER:	RALPH GULLIVER JR. LONG MOUNTAIN ROAD NEW MILFORD, CT 06776
LESSEE/TENANT:	CELLCO PARTNERSHIP d.b.a. VERIZON WIRELESS 99 EAST RIVER DRIVE EAST HARTFORD, CT 06108
CONTACT PERSON:	SANDY CARTER CELLCO PARTNERSHIP (860) 803-8219
ENGINEER:	CENTEK ENGINEERING, INC. 63-2 NORTH BRANFORD ROAD BRANFORD, CT 06405
TOWER COORDINATES:	LATITUDE 41°-50'-44.815" LONGITUDE 73°-21'-51.476" GROUND ELEVATION: 999.8'± A.M.S.L. (PROPOSED) COORDINATES AND GROUND ELEVATION REFERENCED FROM FAA 2-C CERTIFICATION PREPARED BY MARTINEZ-COUCH & ASSOCIATES, LLC., DATED MAY 13, 2009, REVISED MARCH 29, 2010.

SHEET INDEX

SHT. NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	B
C-1	ABUTTERS MAP	B
C-1A	PARTIAL SITE PLAN/GRADING PLAN	B
C-2	COMPOUND PLAN AND ELEVATION	B
C-3	SITE DETAILS AND NOTES	B
C-4	SITE DETAILS	B
C-5	SITE DETAILS AND SHELTER ELEVATIONS	B
C-6	SHELTER FOUNDATION PLAN, DETAILS AND NOTES	B

DESIGNED BY:	CFC
DRAWN BY:	TSP
CHK'D BY:	DMD

REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
A	02/24/10	DMD	CFC	ISSUED FOR CSC - CLIENT REVIEW
B	03/29/10	DMD	CFC	ISSUED FOR CSC - CLIENT REVIEW

Professional Engineer Seal

Cellco Partnership d.b.a. Verizon wireless

CENTEK engineering
Centered on Solutions
(203) 488-0580
(203) 488-8587 Fax
63-2 North Branford Road
Branford, CT 06405
www.CentekEng.com

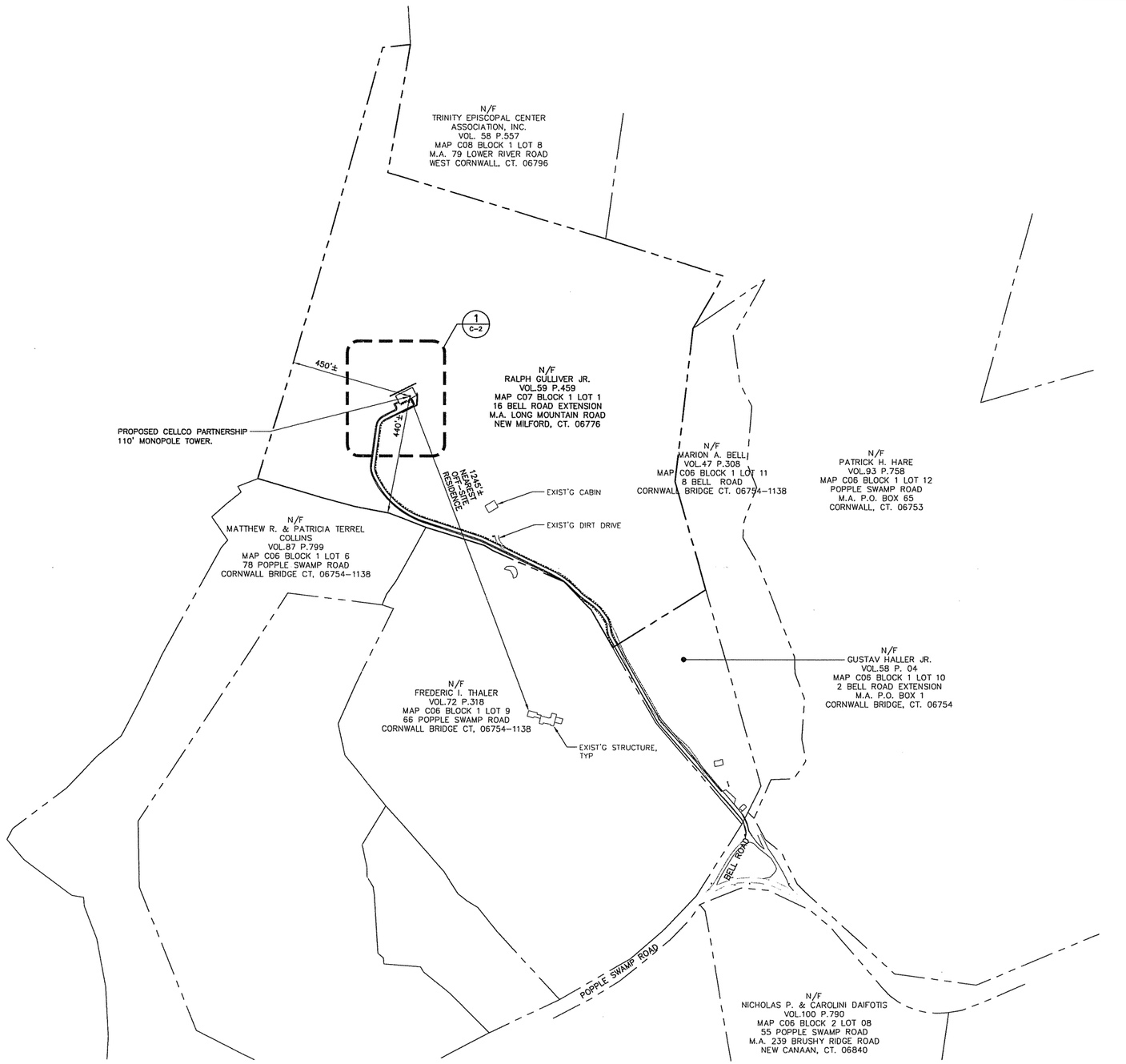
Cellco Partnership d/b/a Verizon Wireless
WIRELESS COMMUNICATIONS FACILITY
CORNWALL, CT
16 BELL ROAD EXTENSION
CORNWALL, CT 06754

DATE:	03/29/10
SCALE:	AS NOTED
JOB NO.	08168

TITLE SHEET

T-1

Sheet No. 1 of 8



1 / C-1 **SITE LOCATION PLAN/ABUTTERS MAP**
SCALE: 1" = 200'

DESIGNED BY:	CFC
DRAWN BY:	TSP
CHK'D BY:	DMD

BY	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
CFC	04/29/10	DMD	CFC	ISSUED FOR CSC – CLIENT REVIEW
CFC	03/30/10	DMD	CFC	ISSUED FOR CSC – CLIENT REVIEW
CFC	2/1/10	DMD	CFC	ISSUED FOR CSC – CLIENT REVIEW
CFC	1/27/10	DMD	CFC	ISSUED FOR CSC – CLIENT REVIEW
CFC	1/8/10	DMD	CFC	ISSUED FOR CSC – CLIENT REVIEW

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WIRELESS COMMUNICATIONS FACILITY
CORNWALL, CT
16 BELL ROAD EXTENSION
CORNWALL, CT 06754

DATE:	03/29/10
SCALE:	AS NOTED
JOB NO.	08168

ABUTTERS MAP

C-1

Sheet No. 2 of 8

PROPOSED 2H:1V MAXIMUM SLOPE. CONSTRUCT SLOPE WITH NORTH AMERICAN GREEN SC150 EROSION BLANKET OR MODIFIED RIP RAP. (1 C-3)

PROPOSED TOWER LOCATION:
LATITUDE: 41°50'44.815"
LONGITUDE: -73°21'51.476"

PROPOSED CELLCO PARTNERSHIP PRE-ENGINEERED RETAINING WALL, TYP.

PROPOSED GRAVEL SURFACE PARKING AREA. SEE DETAIL (6 C-3)

1245'± NEAREST RESIDENCE

LIMIT OF REINFORCED GRAVEL DRIVE

DEMOLISH EXISTING STONE WALL AS NECESSARY TO ACCOMMODATE PROPOSED FEATURES.

PROPOSED 2H:1V MAXIMUM CUT EARTH SLOPE. CONSTRUCT EARTH SLOPE WITH NORTH AMERICAN GREEN SC150 EROSION BLANKET OR MODIFIED RIP RAP.

ARMOR SLOPE WITH MODIFIED RIP RAP ONLY (3 C-3)

REINFORCED GRAVEL ACCESS DRIVE (20% SLOPE) (5 C-3)

PROPOSED TREE TO BE REMOVED (TYPICAL OF 77 TOTAL)

PROPOSED 12 FT. (WIDE) REINFORCED GRAVEL ACCESS DRIVEWAY AND 1.5 FT. SHOULDERS ON BOTH SIDES WITH A CROSS SLOPE OF MAXIMUM 2% TO PITCH TO THE SOUTHERLY SIDE. SEE DETAIL FOR BITUMINOUS CONCRETE DRIVEWAY SECTION. (5 C-3)

PROPOSED 1 FT. (DEEP) SWALE WITH 2H:1V MAXIMUM SIDE SLOPES. CONSTRUCT SWALE WITH NORTH AMERICAN GREEN SC250 EROSION BLANKET OR MODIFIED RIP RAP. INSTALL 2 FT. (THICK) X 1 FT. (HIGH) STONE CHECK DAMS EVERY 6 FT. OF VERTICAL DROP ALONG THE SWALE. CHECK DAMS NOT SHOWN FOR CLARITY. (7 C-3)

DEMOLISH EXISTING STONE WALL AS NECESSARY TO ACCOMMODATE PROPOSED FEATURES.

PROPOSED 10 LF LONG RIP RAP SPLASH PAD/ ENERGY DISSIPATER. SEE DETAIL. (4 C-3)

PROPOSED SILTATION FENCE/ HAYBALES/ SILTATION FENCE "SANDWICH" (TYPICAL). SEE DETAIL. (8 C-3)

PROPOSED 12 FT. (WIDE) GRAVEL SURFACE DRIVEWAY WITH 2% CROSS SLOPE TO PITCH TO THE SOUTHERLY SIDE. SEE DETAIL FOR GRAVEL DRIVEWAY SURFACE SECTION. (6 C-3)

PROPOSED 2H:1V MAXIMUM EARTH SLOPE. ARMOR EARTH SLOPE WITH MODIFIED RIP RAP. SEE DETAIL. (3 C-3)

PROPOSED DRIVEWAY: 22% SLOPE

PROPOSED 230± LF. METAL BEAM GUIDE RAIL. SEE DETAIL. (1 C-5)

PROPOSED SILTATION FENCE (TYPICAL). SEE DETAIL (9 C-3)

PROPOSED DRIVEWAY: 10% SLOPE

LIMIT OF REINFORCED GRAVEL DRIVE

PROPOSED 20' WIDE ACCESS DRIVE EASEMENT

300± SQ.FT. WETLAND AREA TO BE FILLED PERMANENTLY.

PROPOSED 400± SQ.FT. WETLAND AREA TO BE TEMPORARILY DISTURBED DURING CONSTRUCTION ACTIVITY.

MATCH LINE

1 C-1A PARTIAL SITE MAP

SCALE: 1" = 40'

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

ESTIMATED TREE REMOVAL SUMMARY

TREES PROPOSED TO BE REMOVED IN LOCATION ALONG PROPOSED CELLCO PARTNERSHIP 20' WIDE ACCESS EASEMENT	= 60
TREES PROPOSED TO BE REMOVED WITHIN AND AROUND THE PROPOSED CELLCO PARTNERSHIP LEASE AREA	= 17
TOTAL TREES PROPOSED TO BE REMOVED	= 77

SYMBOLS LEGEND

- PROPERTY LINE
- EASEMENT LINE (EXISTING)
- EASEMENT LINE (PROPOSED)
- DRIVE (EXISTING)
- ACCESS DRIVE (PROPOSED)
- LEASE LINE (PROPOSED)
- 650 CONTOUR LINE
- 650 GRADING LINE
- UTILITY POLE
- EXISTING DECIDUOUS TREE
- EXISTING CONIFEROUS TREE
- IRON PIPE
- CONC MON
- EXISTING DICIDUOUS TREE TO BE REMOVED
- EXISTING CONIFEROUS TREE TO BE REMOVED
- SILT FENCE-EROSION & SEDIMENTATION CONTROL
- STONE WALL
- GRADE TO DRAIN DIRECTIONAL

INV=816.37'

400± SQ.FT. WETLAND AREA TO BE TEMPORARILY DISTURBED DURING CONSTRUCTION ACTIVITY.

PROPOSED 20' WIDE ACCESS DRIVE EASEMENT

INV=809.75'

REPLACE EXISTING 8 INCH METAL PIPE WITH 22 LF.– 8 INCH DUCTILE IRON PIPE. MAINTAIN EXISTING PIPE ELEVATIONS AND SLOPE. PROVIDE MINIMUM 12 INCH COVER OVER THE PIPE. INSTALL MODIFIED RIP RAP SLASH PAD AT PIPE OUTLET (NOT SHOWN FOR CLARITY).. (3 C-5)

811.5'

TEL. & CATV BOX

EXISTING 25' ACCESS EASEMENT

CONSTRUCT 12 FT. (WIDE) GRAVEL DRIVEWAY TO MAINTAIN WITHIN THE EXISTING ACCESS EASEMENT.

HOUSE

CL&P 5667

GARAGE

ELEC. MH

GRAVEL DRIVE

CL&P 6130

PROPOSED 50 LF. (LONG) x 12 FT. (WIDE) CONSTRUCTION ENTRANCE/ ANTI-TRACKING PAD. NOT SHOWN FOR CLARITY. SEE DETAIL. (8 C-4)

INV.=813.97'

REPLACE EXISTING 24 INCH C.M.P PIPE WITH 28 LF.– 24 INCH RCP CLASS V PIPE. MAINTAIN EXISTING PIPE ELEVATIONS AND SLOPE. PROVIDE MINIMUM 12 INCH COVER OVER THE PIPE. INSTALL MODIFIED RIP RAP SLASH PAD AT PIPE OUTLET (NOT SHOWN FOR CLARITY). (2 C-5)

1,000± SQ. FT. WETLAND AREA TO BE PERMANENTLY FILLED.

INV.=808.69'

PROTECT EXISTING TELEPHONE AND CATV BOX AND EXISTING ELECTRIC MANHOLE TO REMAIN. SITE DEVELOPER TO HAVE ALL UNDERGROUND UTILITIES MARKED OUT PRIOR TO ANY WORK. RELOCATE UTILITY STRUCTURES AS NECESSARY TO CONSTRUCT PROPOSED FEATURES. MAINTAIN MINIMUM 2 FT. SEPARATION DISTANCE FROM THE DRIVEWAY TO THE UTILITY STRUCTURE.

BELL ROAD

POPPLE SWAMP ROAD

SNET 1962

SNET 1963

15" RCP

MATCH LINE

SURVEY NOTES

THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20-300B-1 THRU 20-300B-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES – "MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ENDORSED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPT. 26, 1996. THE TOPOGRAPHIC SURVEY PORTION OF THIS PLAN CONFORMS TO A VERTICAL ACCURACY OF CLASS T-2 AND IS INTENDED TO BE USED TO DEPICT A PROPOSED TELECOMMUNICATION SITE.

THE PROPERTY/BOUNDARY LINES DEPICTED HEREON ARE COMPILED FROM OTHER MAPS, DEEDS AND LIMITED FIELD SURVEY. THESE LINES ARE NOT TO BE CONSTRUED AS A BOUNDARY OPINION AND ARE SUBJECT TO CHANGE AS AN ACCURATE FIELD SURVEY MAY DISCLOSE. PROPERTY MAY BE SUBJECT TO ENCUMBRANCES, EASEMENTS, RIGHTS OF WAY AS A TITLE SEARCH REPORT MAY DISCLOSE.

VERTICAL DATUM IS BASED ON NGVD 29.

COORDINATES REFER TO NAD 83.

PARCEL OWNER OF RECORD: RALPH GULLIVER JR.
16 BELL ROAD EXTENSION
M.A. LONG MOUNTAIN ROAD
NEW MILFORD, CT. 06776

SURVEY NOTES (CONTINUED)

REFERENCE IS MADE TO THE FOLLOWING MAPS

1) PROPERTY OF ESTATE OF CORA D. SANDMEYER, POPPLE SWAMP ROAD, CORNWALL, CONNECTICUT, SCALE 1"=100', DATED MAY 21,1976, PREPARED BY HOWARD STEARNS, MAP #267.

2) MAP PREPARED FOR MATTHEW R. COLLINS, POPPLE SWAMP ROAD, CORNWALL, CONNECTICUT, SCALE 1"=100', DATED OCTOBER 28, 1983, PREPARED BY HOWARD STEARNS ,MAP #395.

3) PROPERTY OF JULIA M. D. RUMSEY, POPPLE SWAMP ROAD, CORNWALL, CONNECTICUT, SCALE 1"=100', DATED OCTOBER 10, 1972, PREPARED BY HOWARD STEARNS, MAP#196.

4) MAP SHOWING PORTION OF PROPERTY OF RALPH J. GULLIVER JR., GUSTAV HALLER JR., & CHARLES SWANSON, POPPLE SWAMP ROAD, CORNWALL, CONNECTICUT, SCALE 1"=50', DATED JUNE 1978, PREPARED BY PETER A. LAMB.

5) COMPILATION PLAN PREPARED FOR PATRICK H. HARE ET AL, POPPLE SWAMP ROAD, CORNWALL, CONNECTICUT, SCALE 1"=100', DATED APRIL 2002, BY RICHARD J. ADAMS.

6) MAP SHOWING PROPERTY OF HOWARD A. BRAULT & MARIE A. BRAULT IN THE TOWN OF CORNWALL, CONN., SCALE 1"=100', DATED DEC. 19, 1953, BY CHARLES H. WILFORD.

PARCEL AREA = 41± ACRES.

PARCEL IS IN THE R-5 ZONING DISTRICT.

PARCEL ID: MAP C07 BLOCK 1 LOT 1 CORNWALL ASSESSOR'S MAP.

PARCEL IS IN ZONE X ON THE FLOOD INSURANCE RATE MAP, CORNWALL CONNECTICUT, LITCHFIELD COUNTY, PANEL 14 OF 30, COMMUNITY PANEL NUMBER 090045 0014 A, EFFECTIVE DATE AUGUST 16, 1988, BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.

TO MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON

THIS MAP IS NOT VALID WITHOUT A LIVE SIGNATURE AND SEAL

A. RAFAEL MARTINEZ LLS #18833 — DATE 4/27/10

DESIGNED BY:	CFC
DRAWN BY:	TSP
CHK'D BY:	DMD

REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
A	04/27/10	DMD	CFC	ISSUED FOR CSC
B	03/30/10	DMD	CFC	ISSUED FOR CSC – CLIENT REVIEW

STATE OF CONNECTICUT — A. RAFAEL MARTINEZ — LICENSED PROFESSIONAL ENGINEER

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WIRELESS COMMUNICATIONS FACILITY
CORNWALL, CT

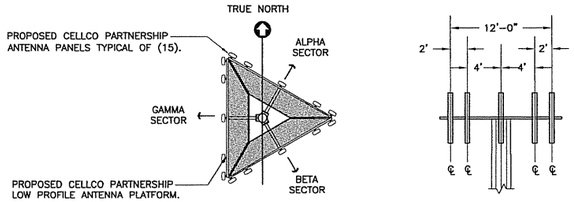
16 BELL ROAD EXTENSION
CORNWALL, CT 06754

DATE:	03/29/10
SCALE:	AS NOTED
JOB NO.	08168

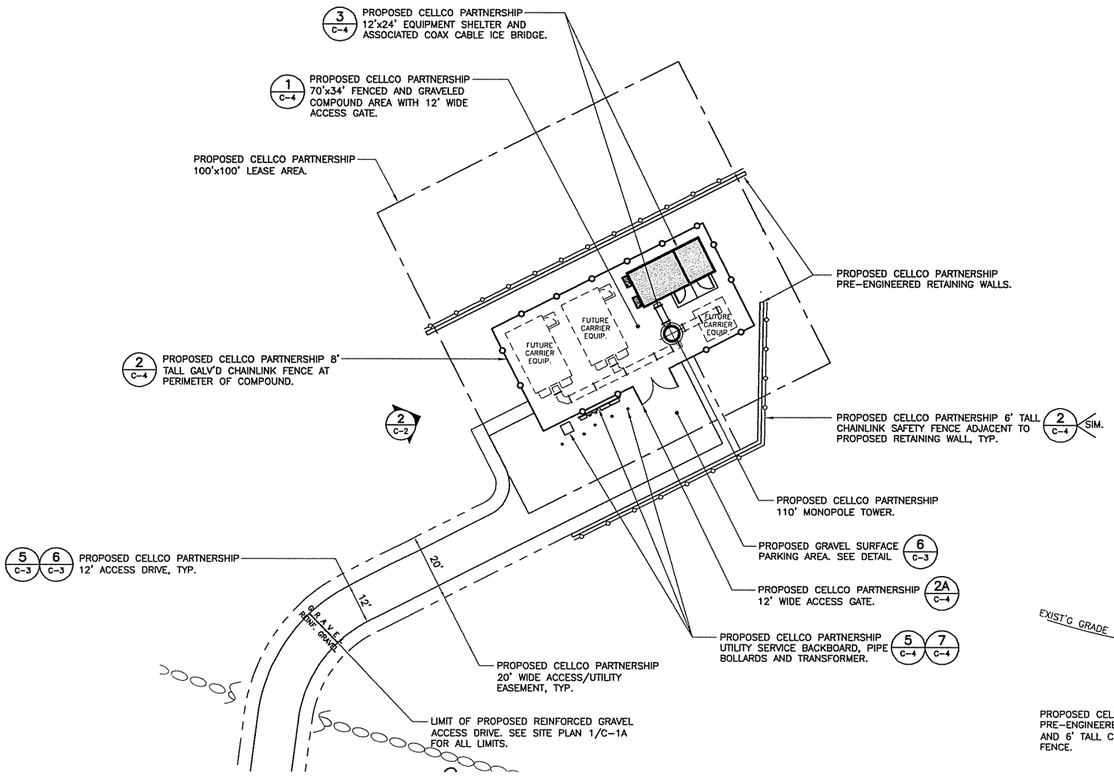
PARTIAL SITE PLAN/GRADING PLAN

C-1A

Sheet No. 3 of 8



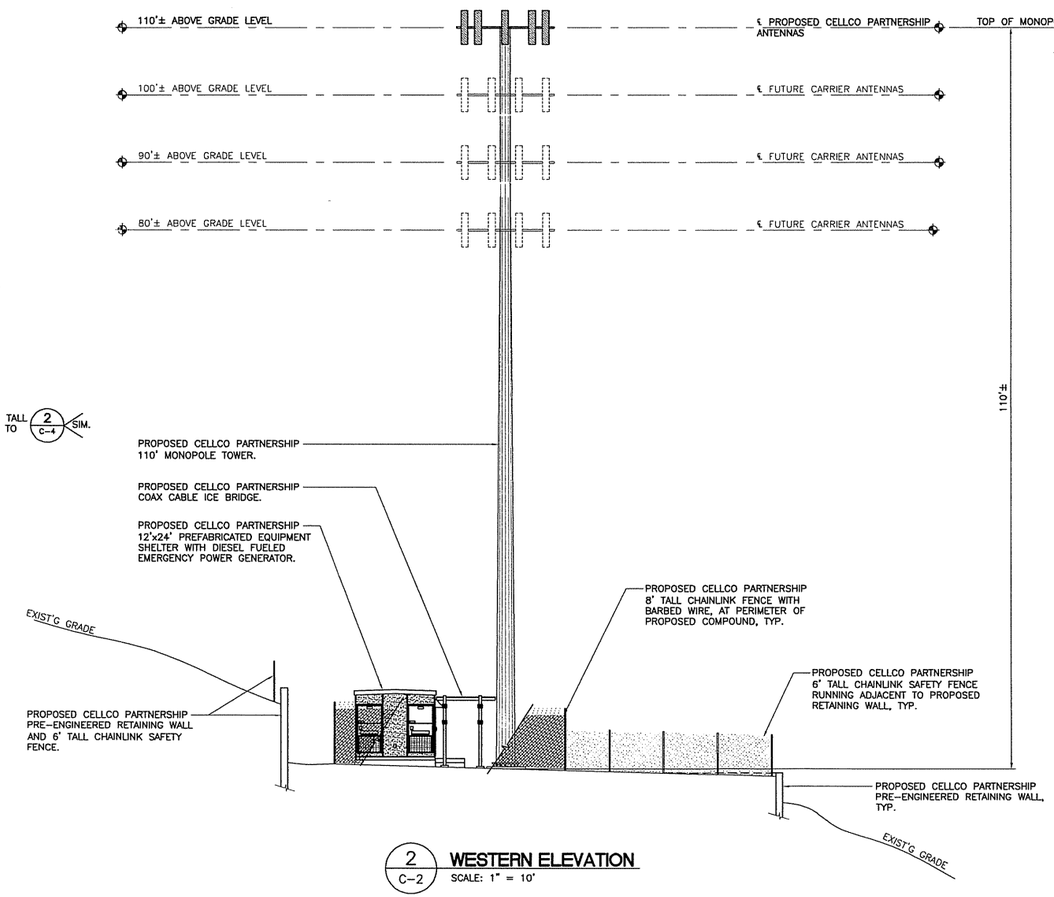
3 / C-2 **ANTENNA MOUNTING CONFIGURATION**
NOT TO SCALE



1 / C-2 **PARTIAL SITE PLAN** SCALE: 1" = 20'- 0"

TRUE NORTH

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.



2 / C-2 **WESTERN ELEVATION** SCALE: 1" = 10'

GRAPHIC SCALE
10 0 5 10 20 40
(IN FEET)
1 inch = 10 ft.

DESIGNED BY:	CFC		
DRAWN BY:	TSP		
CHK'D BY:	DMD		

REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
A	03/27/10	DMD	CFC	ISSUED FOR CSC
B	03/30/10	DMD	CFC	ISSUED FOR CSC - CLIENT REVIEW

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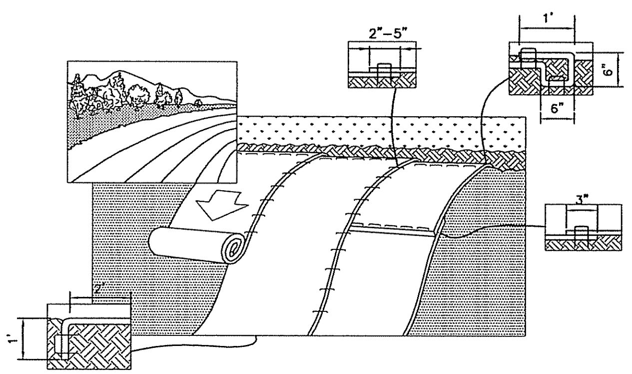
CORNWALL, CT 06754

DATE:	03/29/10
SCALE:	AS NOTED
JOB NO.	08168

COMPOUND PLAN AND ELEVATION

C-2
Sheet No. 4 of 8



SLOPE APPLICATIONS:

A. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.

NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.

B. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP BY 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLE/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.

C. ROLL THE BLANKET DOWN OR HORIZONTALLY ACROSS THE SLOPE. BLANKET WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL ROLLED EROSION CONTROL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM[TM], STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.

D. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY A 2"–5" OVERLAP DEPENDING ON BLANKET TYPE.

E. CONSECUTIVE ROLLED EROSION CONTROL BLANKET SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.

* IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKET.

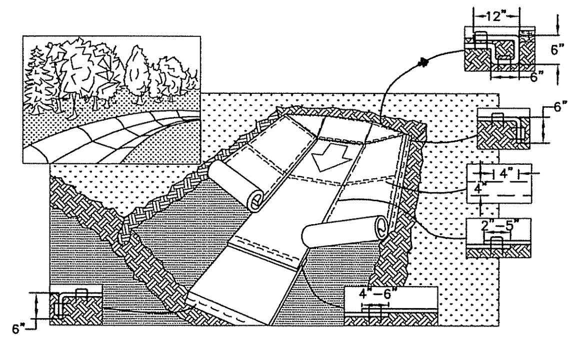
F. THE EDGE OF THE BLANKET IS TO EXTEND A MINIMUM 24 INCHES BEYOND THE TOE OF THE SLOPE AND ANCHORED BY PLACING THE STAPLES/STAKES IN A 12 INCH DEEP x 6 INCH WIDE ANCHOR TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12 INCH APART IN THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING (STONE OR SOIL MAY BE USED AS BACKFILL).

G. REFER TO MANUFACTURERS STAPLE GUIDE FOR CORRECT STAPLE PATTERN. MINIMUM 4 SPIKES PER ONE SQ. FT.

THE CONTRACTOR SHALL MAINTAIN THE BLANKET UNTIL ALL WORK ON THE CONTRACT HAS BEEN COMPLETED AND ACCEPTED. MAINTENANCE SHALL CONSIST OF THE REPAIR OF AREAS WHERE DAMAGED BY ANY CAUSE. ALL DAMAGED AREAS SHALL BE REPAIRED TO RE-ESTABLISH THE CONDITIONS AND GRADE OF THE SOIL PRIOR TO APPLICATION OF THE COVERING AND SHALL BE REFERTILIZED, RESEEDED, AND REMULCHED AS DIRECTED.

1 / C-3 — **TYPICAL EROSION MAT INSTALLATION ON SLOPE**

NOT TO SCALE



CHANNEL APPLICATIONS:

A. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.

B. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" DEEP BY 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLE/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.

C. ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM[TM], STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.

D. PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4"–6" OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER TO SECURE BLANKETS.

E. FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP BY 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

F. ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 2"– 5" AND STAPLED TO ENSURE PROPER SEAM ALIGNMENT. PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH[TM] ON THE BLANKET BEING OVERLAPPED.

G. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP BY 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

H. REFER TO MANUFACTURERS STAPLE GUIDE FOR CORRECT STAPLE PATTERN. MINIMUM 4 SPIKES PER ONE SQ. FT. THE CONTRACTOR SHALL MAINTAIN THE BLANKET UNTIL ALL WORK ON THE CONTRACT HAS BEEN COMPLETED AND ACCEPTED. MAINTENANCE SHALL CONSIST OF THE REPAIR OF AREAS WHERE DAMAGED BY ANY CAUSE. ALL DAMAGED AREAS SHALL BE REPAIRED TO REESTABLISH THE CONDITIONS AND GRADE OF THE SOIL PRIOR TO APPLICATION OF THE COVERING AND SHALL BE REFERTILIZED, RESEEDED, AND REMULCHED AS DIRECTED.

2 / C-3 — **TYPICAL EROSION MAT INSTALLATION IN CHANNEL**

NOT TO SCALE

GENERAL CONSTRUCTION SEQUENCE

THIS IS A GENERAL CONSTRUCTION SEQUENCE OUTLINE SOME ITEMS OF WHICH MAY NOT APPLY TO PARTICULAR SITES.

1. CUT AND STUMP AREAS OF PROPOSED CONSTRUCTION.
2. INSTALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES AS REQUIRED.
3. REMOVE AND STOCKPILE TOPSOIL. STOCKPILE SHALL BE SEEDED TO PREVENT EROSION.
4. CONSTRUCT CLOSED DRAINAGE SYSTEM. PRECEPT CULVERT INLETS AND CATCH BASINS WITH SEDIMENTATION BARRIERS.
5. CONSTRUCT ROADWAYS AND PERFORM SITE GRADING, PLACING HAY BALES AND SILTATION FENCES AS REQUIRED TO CONTROL SOIL EROSION.
6. INSTALL UNDERGROUND UTILITIES.
7. BEGIN TEMPORARY AND PERMANENT SEEDING AND MULCHING. ALL CUT AND FILL SLOPES SHALL BE SEEDED OR MULCHED IMMEDIATELY AFTER THEIR CONSTRUCTION. NO AREA SHALL BE LEFT UNSTABILIZED FOR A TIME PERIOD OF MORE THAN 30 DAYS.
8. DAILY, OR AS REQUIRED, CONSTRUCT, INSPECT, AND IF NECESSARY, RECONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, SILT FENCES AND SEDIMENT TRAPS INCLUDING MULCHING AND SEEDING.
9. BEGIN EXCAVATION FOR AND CONSTRUCTION OF TOWERS AND PLATFORMS.
10. FINISH PAVING ALL ROADWAYS, DRIVES, AND PARKING AREAS.
11. COMPLETE PERMANENT SEEDING AND LANDSCAPING.
12. NO FLOW SHALL BE DIVERTED TO ANY WETLANDS UNTIL A HEALTHY STAND OF GRASS HAS BEEN ESTABLISHED IN REGARDED AREAS.
13. AFTER GRASS HAS BEEN FULLY GERMINATED IN ALL SEEDED AREAS, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES.

CONSTRUCTION SPECIFICATIONS - SILT FENCE

1) THE GEOTEXTILE FABRIC SHALL MEET THE DESIGN CRITERIA FOR SILT FENCES.

2) THE FABRIC SHALL BE EMBEDDED A MINIMUM OF 8 INCHES INTO THE GROUND AND THE SOIL COMPACTED OVER THE EMBEDDED FABRIC.

3) WOVEN WIRE FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES OR STAPLES.

4) FILTER CLOTH SHALL BE FASTENED SECURELY TO THE WOVEN WIRE FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP, MID-SECTION AND BOTTOM.

5) WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED.

6) FENCE POSTS SHALL BE A MINIMUM OF 36 INCHES LONG AND DRIVEN A MINIMUM OF 16 INCHES INTO THE GROUND. WOOD POSTS SHALL BE OF SOUND QUALITY HARDWOOD AND SHALL HAVE A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES.

7) MAINTENANCE SHALL BE PERFORMED AS NEEDED TO PREVENT BUILD UP IN THE SILT FENCE DUE TO DEPOSITION OF SEDIMENT.

SOIL EROSION AND SEDIMENT CONTROL SEQUENCE

A. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES, SUCH AS CONSTRUCTION ENTRANCE / ANTI TRACKING PAD, SILTATION FENCE, AND SILTATION FENCE / HAY BALE SHALL BE IN PLACE PRIOR TO ANY GRADING ACTIVITY, INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES. MEASURES SHALL BE LEFT IN PLACE AND MAINTAINED UNTIL CONSTRUCTION IS COMPLETED AND/OR AREA IS STABILIZED.

B. THE ENTRANCE TO THE PROJECT SITE IS TO BE PROTECTED BY STONE ANTI TRACKING PAD OF ASTM C-33, SIZE NO. 2 OR 3, OR D.O.T. 2" CRUSHED GRAVEL. THE STONE ANTI TRACKING PAD IS TO BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION PERIOD.

C. LAND DISTURBANCE WILL BE KEPT TO A MINIMUM AND RESTABILIZATIONS WILL BE SCHEDULED AS SOON AS PRACTICAL.

D. ALL SOIL EROSION AND SEDIMENT CONTROL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CONNECTICUT GUIDELINES FOR EROSION AND SEDIMENT CONTROL INCLUDING THE LATEST DATE FROM THE COUNCIL ON SOIL AND WATER CONSERVATION.

E. ANY ADDITIONAL EROSION/SEDIMENTATION CONTROL DEEMED NECESSARY BY TOWN STAFF DURING CONSTRUCTION, SHALL BE INSTALLED BY THE DEVELOPER. IN ADDITION, THE DEVELOPER SHALL BE RESPONSIBLE FOR THE REPAIR/REPLACEMENT/MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL ALL DISTURBED AREAS ARE STABILIZED TO THE SATISFACTION OF THE TOWN STAFF.

F. IN ALL AREAS, REMOVAL OF TREES, BUSHES AND OTHER VEGETATION AS WELL AS DISTURBANCE OF THE SOIL IS TO BE KEPT TO AN ABSOLUTE MINIMUM WHILE ALLOWING PROPER DEVELOPMENT OF THE SITE. DURING CONSTRUCTION, EXPOSE AS SMALL AN AREA OF SOIL AS POSSIBLE FOR AS SHORT A TIME AS POSSIBLE.

G. SILTATION FENCE SHALL BE PLACED AS INDICATED BEFORE A CUT SLOPE HAS BEEN CREATED. SEDIMENT DEPOSITS SHOULD BE PERIODICALLY REMOVED FROM THE UPSTREAM SIDES OF SILTATION FENCE. THIS MATERIAL IS TO BE SPREAD AND STABILIZED IN AREAS NOT SUBJECT TO EROSION, OR TO BE USED IN AREAS WHICH ARE NOT TO BE PAVED OR BUILT ON. SILTATION FENCE IS TO BE REPLACED AS NECESSARY TO PROVIDE PROPER FILTERING ACTION. THE FENCE IS TO REMAIN IN PLACE AND BE MAINTAINED TO INSURE EFFICIENT SILTATION CONTROL UNTIL ALL AREAS ABOVE THE EROSION CHECKS ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED.

H. SWALE DISCHARGE AREA WILL BE PROTECTED WITH RIP RAP SPLASH PAD/ ENERGY DISSIPATER.

I. ALL FILL AREAS SHALL BE COMPACTED SUFFICIENTLY FOR THEIR INTENDED PURPOSE AND AS REQUIRED TO REDUCE SLIPPING, EROSION OR EXCESS SATURATION.

J. THE SOIL SHALL NOT BE PLACED WHILE IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBGRADE IS EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING OR PROPOSED SODDING OR SEEDING.

K. AFTER CONSTRUCTION IS COMPLETE AND GROUND IS STABLE, REMOVE SILTS IN THE RIP RAP ENERGY DISSIPATERS. REMOVE OTHER EROSION AND SEDIMENT DEVICES.

RIP RAP SLOPES

SUBGRADE PREPARATION

PREPARE THE SUBGRADE FOR RIP RAP, BEDDING, FILTER OR GEOTEXTILE TO THE REQUIRED LINES AND GRADES. COMPACT ANY FILL REQUIRED IN THE SUBGRADE IN 12-INCHES LIFTS TO 95% OF STANDARD PROCTOR DENSITY. REMOVE BRUSH, TREES, STUMPS, AND OTHER OBJECTIONABLE MATERIAL.

FILTER BLANKET OR BEDDING

IMMEDIATELY AFTER SLOPE PREPARATION, INSTALL THE FILTER OR BEDDING MATERIALS. SPREAD THE FILTER OR BEDDING MATERIALS IN A UNIFORM LAYER TO THE SPECIFIED DEPTH.

STONE PLACEMENT

IMMEDIATELY AFTER PLACEMENT OF THE FILTER BLANKET, BEDDING, PLACE THE RIP RAP TO ITS FULL COURSE THICKNESS IN ONE OPERATION SO THAT IT PRODUCES A DENSE WELL GRADED MASS OF STONE WITH A MINIMUM OF VOIDS. THE DESIRED DISTRIBUTION OF STONES THROUGHOUT THE MASS MAY BE OBTAINED BY SELECTIVE LOADING AT THE QUARRY, CONTROLLED DUMPING OF SUCCESSIVE LOADS DURING THE FINAL PLACING, OR BY A COMBINATION OF THESE METHODS. DO NOT PLACE RIP RAP IN LAYERS OR USE CHUTES OR SIMILAR METHODS TO DUMP THE RIP RAP WHICH ARE LIKELY TO CAUSE SEGREGATION OF THE VARIOUS STONES.

TAKE CARE NOT TO DISLODGE THE UNDERLYING MATERIAL WHEN PLACING THE STONES. WHEN PLACING RIP RAP ON A FILTER FABRIC TAKE CARE NOT TO DAMAGE THE FABRIC. IF DAMAGE OCCURS, REMOVE AND REPLACE THE DAMAGED SHEET. FOR LARGE STONE, 12 INCHES OR GREATER, USE A 6 INCH LAYER OF FILTER OR BEDDING MATERIAL TO PREVENT DAMAGE TO THE MATERIAL FROM PUNCTURE.

ENSURE THE FINISHED SLOPE IS FREE OF POCKETS OF SMALL STONES OR CLUSTERS OF LARGE STONES. HAND PLACING MAY BE NECESSARY TO ACHIEVE THE REQUIRED GRADES AND A GOOD DISTRIBUTION OF STONE SIZES. ENSURE THE FINAL THICKNESS OF THE RIP RAP BLANKET IS WITHIN PLUS OR MINUS 0.25 OF THE SPECIFIED THICKNESS.

MAINTENANCE

INSPECTED PERIODICALLY TO DETERMINE IF HIGH FLOWS HAVE CAUSED SCOUR BENEATH THE RIP RAP OR FILTER BLANKET MATERIALS. REMOVE TREES THAT DEVELOP IN THE PROTECTED SLOPES.

MATERIALS TO BE MAINTAINED ON SITE FOR IMMEDIATE USE

100 LF. SILT FENCE ON POST;
SLEDGE HAMMER;
3 SHOVELS;
5 SILT BAGS;
10 TONS OF RIP RAP;
500 SQ.FT. OF EROSION MAT / BLANKET WITH STAPLES;
DIGITAL CAMERA;
REPORT BOOK.

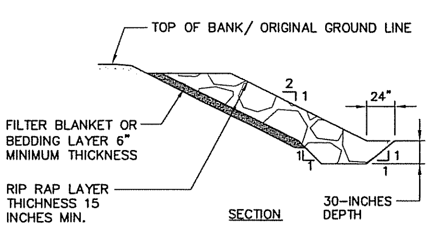
MAINTENANCE - SILT FENCE

1) SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.

2) IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.

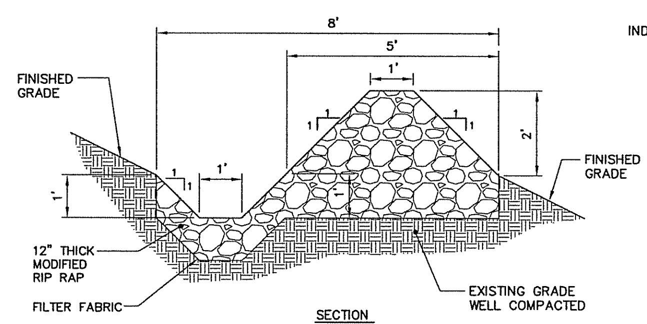
3) SEDIMENT SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACHED APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.

4) SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.



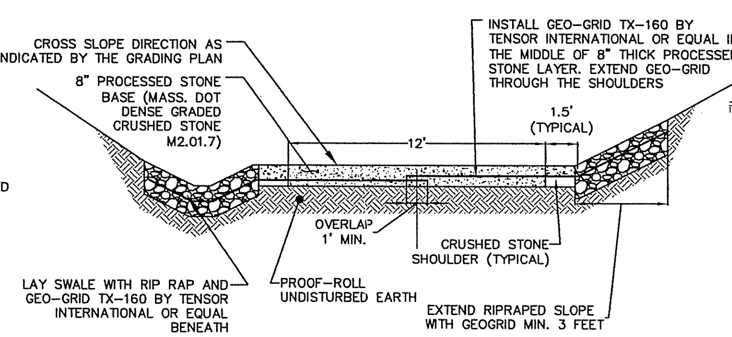
3 / C-3 — **RIP RAP SLOPE**

NOT TO SCALE



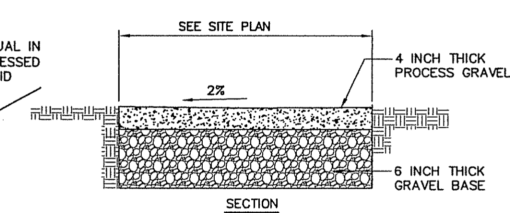
4 / C-3 — **RIP RAP SPLASH PAD/ENERGY DISSIPATOR**

NOT TO SCALE



5 / C-3 — **REINFORCED PROCESSED STOEN ACCESS DRIVEWAY**

NOT TO SCALE

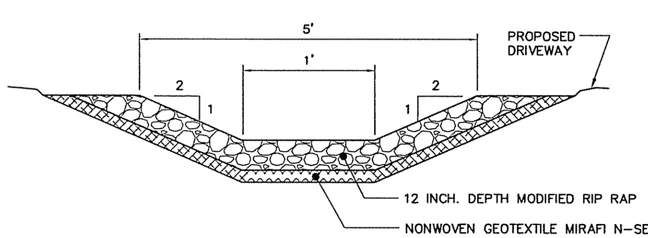


6 / C-3 — **GRAVEL SURFACE PARKING AREA AND ACCESS DRIVE**

NOT TO SCALE

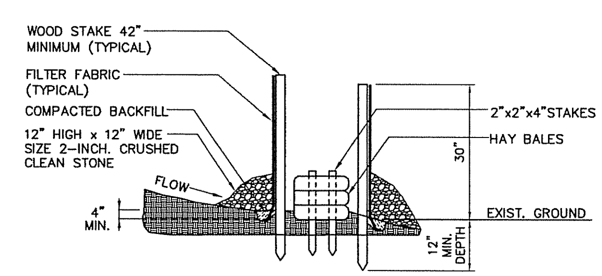
MODIFIED RIP RAP SIZES

STONE SIZE	% OF MASS
10" AND OVER	0
6" TO 10"	30–50
4" TO 6"	30–50
2" TO 4"	20–30
1" TO 2"	10–20
LEES THAN 1"	0–10



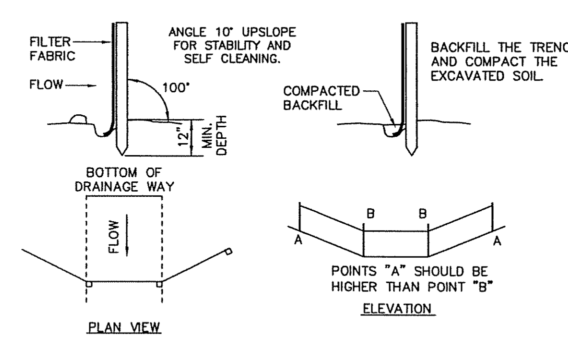
7 / C-3 — **12-INCH DEEP DRAINAGE SWALE**

NOT TO SCALE (TYPICAL)



8 / C-3 — **SILTATION FENCE/HAY BALE SILTATION FENCE 'SANDWICH' EROSION CONTROL**

NOT TO SCALE



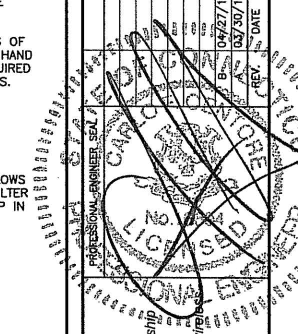
SOURCE: U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, STORRS, CONNECTICUT

9 / C-3 — **PLACEMENT AND CONSTRUCTION OF SILTATION FENCE**

NOT TO SCALE

DESIGNED BY:	CFC
DRAWN BY:	TSP
CHK'D BY:	DMD

REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
	03/30/10	DMD	CFC	ISSUED FOR CSC
	04/27/10	DMD	CFC	ISSUED FOR CSC – CLIENT REVIEW



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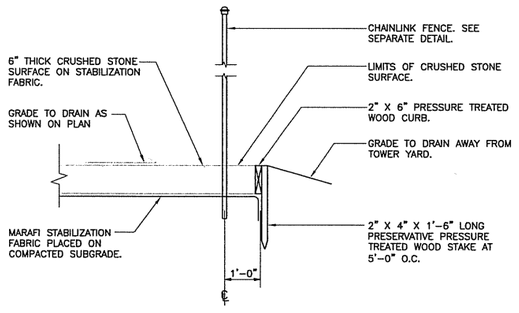
JOB NO.	08168

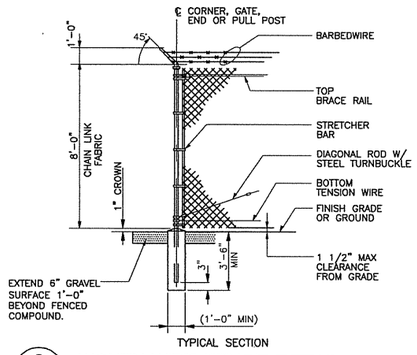
SITE DETAILS AND NOTES

C-3

Sheet No. 5 of 8



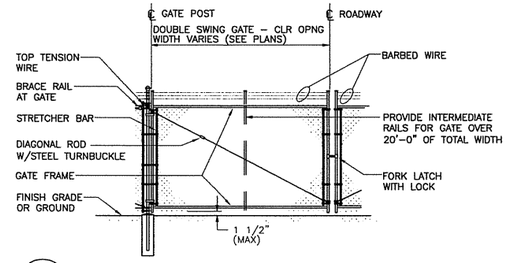
1 C-4 **COMPOUND SURFACING DETAIL**
NOT TO SCALE



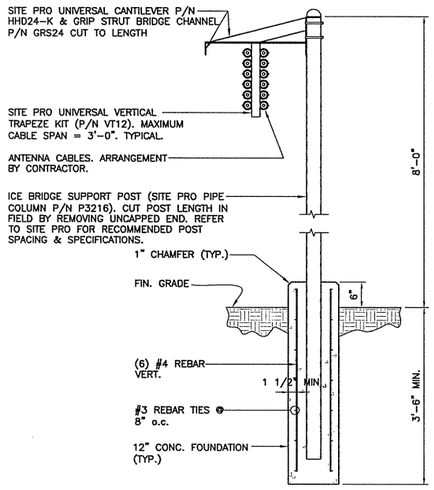
2 C-4 **WOVEN WIRE FENCE DETAIL**
NOT TO SCALE

WOVEN WIRE FENCE NOTES

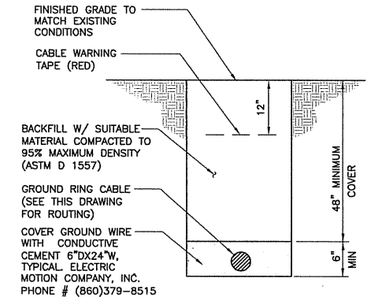
1. GATE POST, CORNER, TERMINAL OR PULL POST 2 1/2" ø SCHEDULE 40 FOR GATE WIDTHS UP THRU 6 FEET OR 12 FEET FOR DOUBLE SWING GATE PER ASTM-F1083.
2. LINE POST: 2" ø SCHEDULE 40 PIPE PER ASTM-F1083.
3. GATE FRAME: 1 1/2" ø SCHEDULE 40 PIPE PER ASTM-F1083.
4. TOP RAIL & BRACE RAIL: 1 1/2" ø SCHEDULE 40 PIPE PER ASTM-F1083.
5. FABRIC: 12 GA. CORE WIRE SIZE 2" MESH, CONFORMING TO ASTM-A392.
6. TIE WIRE: MINIMUM 11 GA. GALVANIZED STEEL AT POSTS AND RAILS A SINGLE WRAP OF FABRIC TIE AND AT 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 5" CENTERS.
9. GATE LATCH: DROP DOWN LOCKABLE FORK LATCH AND LOCK, KEYED ALIKE FOR ALL SITES IN A GIVEN MTA.
10. LOCAL ORDINANCE OF BARBED WIRE PERMIT REQUIREMENT SHALL BE COMPLIED WITH IF REQUIRED.
11. COMPOUND FENCE HEIGHT = 8' VERTICAL + 1' BARBED WIRE VERTICAL DIMENSION.
12. SAFETY FENCE HEIGHT = 6' VERTICAL DIMENSION (NO BARBED WIRE REQUIRED).



2A C-4 **WOVEN WIRE SWING GATE-DOUBLE**
NOT TO SCALE

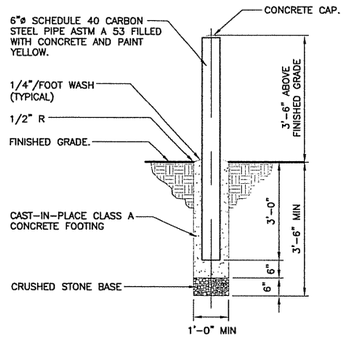


3 C-4 **ICE BRIDGE DETAIL**
NOT TO SCALE

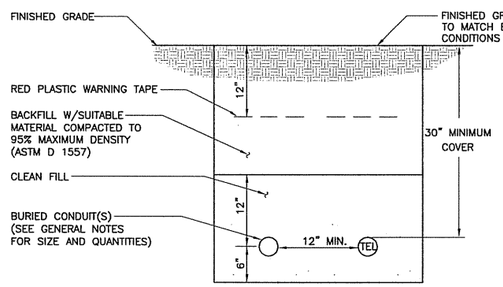


NOTES:
1. BACK FILL SHALL NOT CONTAIN ASHES, CINDERS, SHELLS, FROZEN MATERIAL, LOOSE DEBRIS OR STONES LARGER THAN 2" IN MAXIMUM DIMENSION.
2. WHERE EXISTING UTILITIES ARE LIKELY TO BE ENCOUNTERED, CONTRACTOR SHALL HAND DIG AND PROTECT EXISTING UTILITIES.

4 C-4 **TYPICAL BURIAL GROUND CABLE DETAIL**
NOT TO SCALE

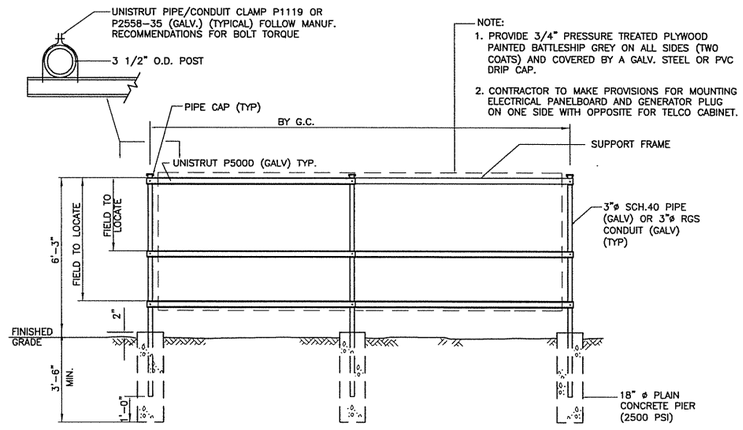


5 C-4 **BOLLARD DETAIL**
NOT TO SCALE



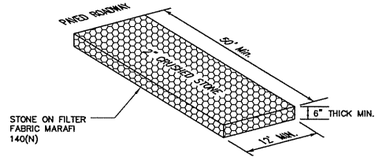
NOTES:
1. THE CLEAN FILL SHALL PASS THROUGH A 3/8" MESH SCREEN AND SHALL NOT CONTAIN SHARP STONES. OTHER BACKFILL SHALL NOT CONTAIN ASHES, CINDERS, SHELLS, FROZEN MATERIAL, LOOSE DEBRIS OR STONES LARGER THAN 2" IN MAXIMUM DIMENSION.
2. WHERE EXISTING UTILITIES ARE LIKELY TO BE ENCOUNTERED, CONTRACTOR SHALL HAND DIG AND PROTECT EXISTING UTILITIES.

6 C-4 **TYPICAL ELECTRICAL/TEL TRENCH DETAIL**
NOT TO SCALE



NOTE:
1. PROVIDE 3/4" PRESSURE TREATED PLYWOOD PAINTED BATTLESHIP GREY ON ALL SIDES (TWO COATS) AND COVERED BY A GALV. STEEL OR PVC DRIP CAP.
2. CONTRACTOR TO MAKE PROVISIONS FOR MOUNTING ELECTRICAL PANELBOARD AND GENERATOR PLUG ON ONE SIDE WITH OPPOSITE FOR TELCO CABINET.

7 C-4 **UTILITY SUPPORT FRAME (TYP)**
NOT TO SCALE



8 C-4 **CONSTRUCTION ENTRANCE ANTI-TRACKING PAD**
NOT TO SCALE

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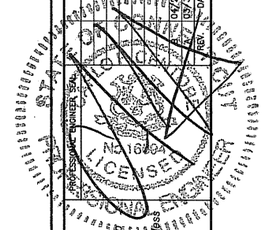
CHK'D BY:	DMD

REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
1	04/27/10	DMD	CFC	ISSUED FOR CSC – CLIENT REVIEW
2	05/30/10	DMD	CFC	ISSUED FOR CSC – CLIENT REVIEW



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CORNWALL, CT 06754

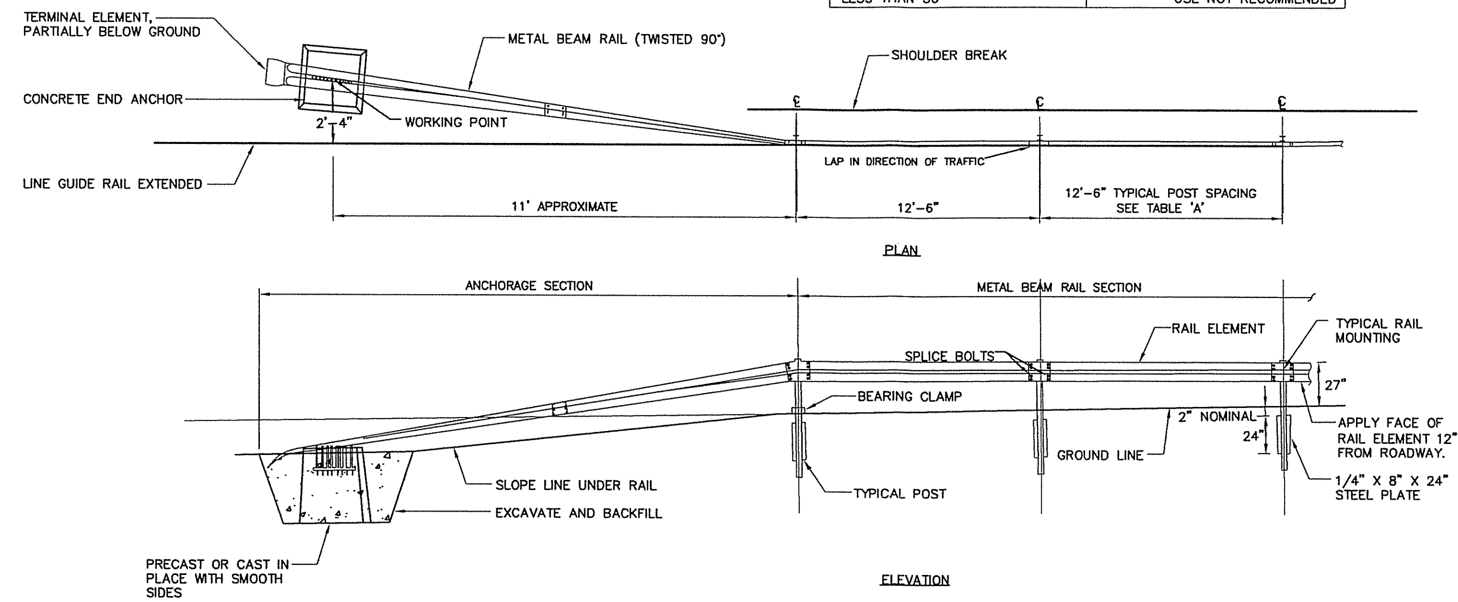
DATE:	03/29/10
SCALE:	AS NOTED
JOB NO.	08168

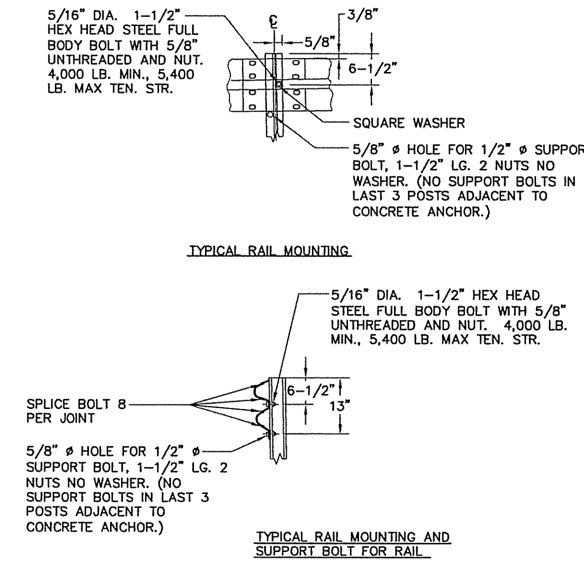
SITE DETAILS

C-4

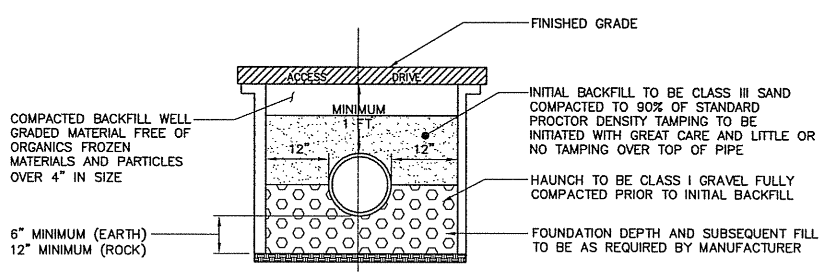
Sheet No. 5 of 8

TABLE 'A'	
CURVATURE (DEGREE OR RADIUS)	POST SPACING
LESS THAN 26'(220 RAD. OR MORE)	12'-6"
219' TO 111'	6'-3"
110' TO 76'	4'-2"
75' TO 50'	3'-1/2"
LESS THAN 50'	USE NOT RECOMMENDED

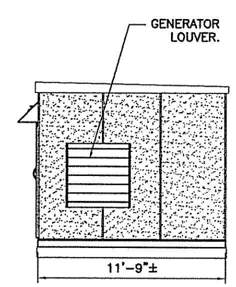




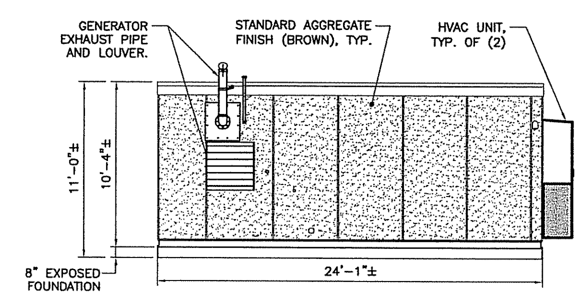
1 C-5 METAL BEAM RAIL
NOT TO SCALE



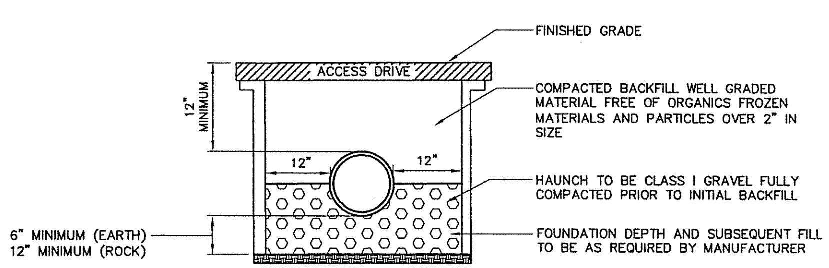
2 C-5 RCP PIPE BEDDING
NOT TO SCALE



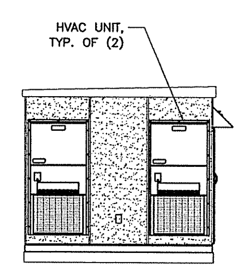
4 C-3 EASTERN SHELTER ELEVATION
SCALE: 3/16" = 1'-0"



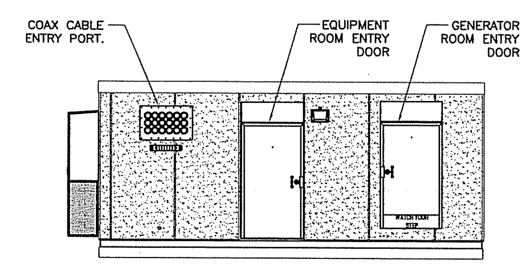
5 C-3 NORTHERN SHELTER ELEVATION
SCALE: 3/16" = 1'-0"



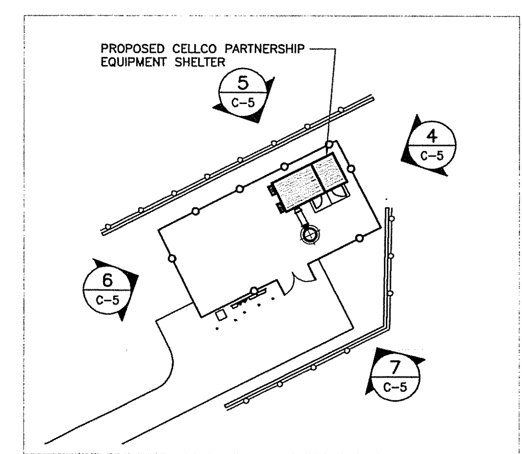
3 C-5 DUCTILE IRON PIPE BEDDING
NOT TO SCALE



6 C-3 WESTERN SHELTER ELEVATION
SCALE: 3/16" = 1'-0"



7 C-3 SOUTHERN SHELTER ELEVATION
SCALE: 3/16" = 1'-0"



SHELTER ELEVATION KEY PLAN
NOT TO SCALE

TRUE NORTH

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REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
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B	04/27/10	DMD	CFC	ISSUED FOR CSC

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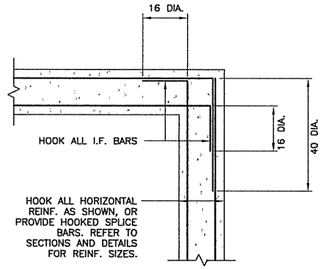
DATE:	03/29/10
SCALE:	AS NOTED
JOB NO.	08168

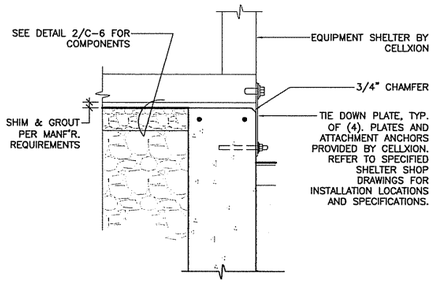
SITE DETAILS AND SHELTER ELEVATIONS

C-5

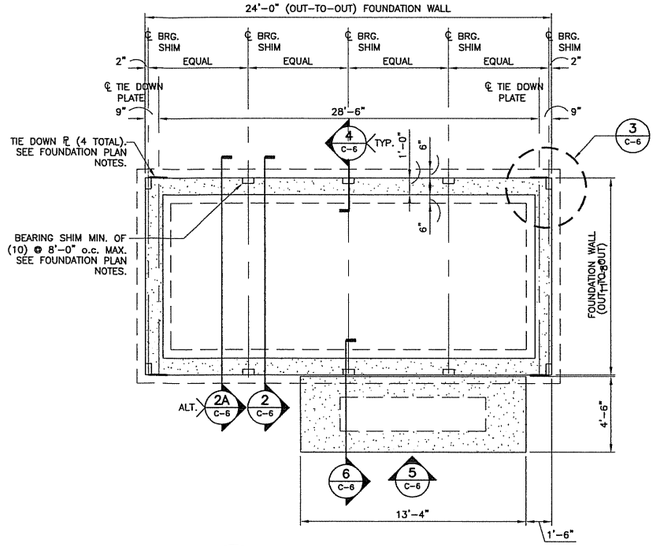
Sheet No. 7 of 8



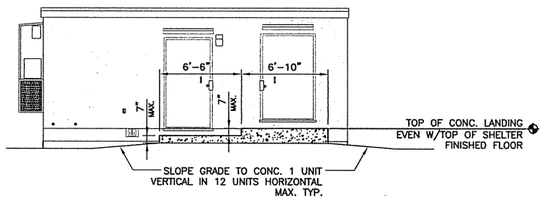
3 / C-6 **PLAN DETAIL**
NOT TO SCALE



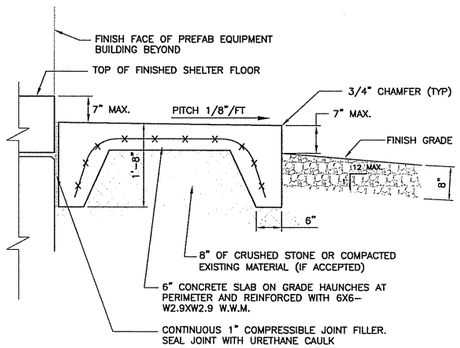
4 / C-6 **BUILDING TIE DOWN**
SCALE: 1"=1'-0"



1 / C-6 **FOUNDATION PLAN**
SCALE: 1/4"=1'-0"
APPROXIMATE NORTH

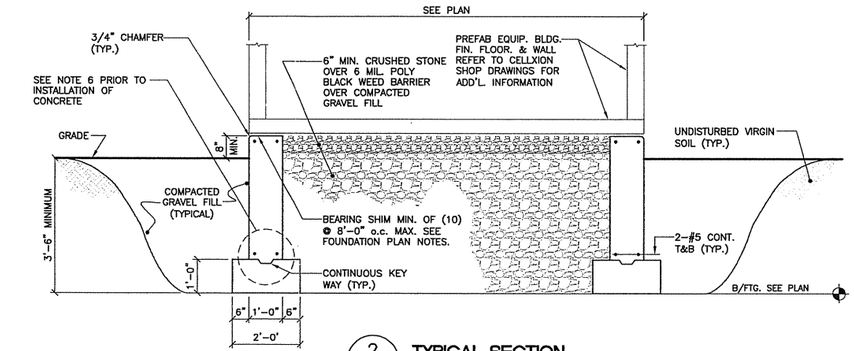


5 / C-6 **ENTRY STOOP DETAIL - ELEVATION**
SCALE: 3/16"=1'-0"

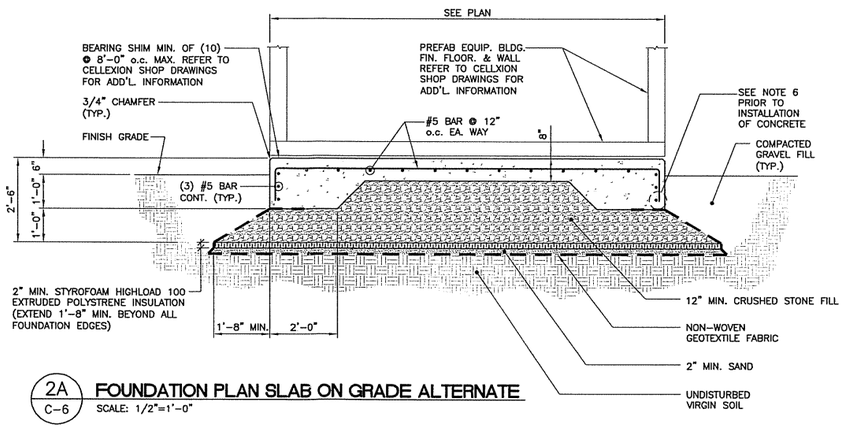


6 / C-6 **ENTRY STOOP DETAIL - SECTION**
SCALE: 3/16"=1'-0"

EQUIPMENT SHELTER BY CELLXION. VERIFY ALL SHELTER DIMENSIONS, EQUIPMENT DIMENSIONS, EQUIPMENT LOCATIONS AND UTILITY OPENINGS WITH BUILDING SHOP DRAWINGS PRIOR TO COMMENCEMENT OF WORK.



2 / C-6 **TYPICAL SECTION**
SCALE: 1/2"=1'-0"



2A / C-6 **FOUNDATION PLAN SLAB ON GRADE ALTERNATE**
SCALE: 1/2"=1'-0"

FOUNDATION NOTES:

1. IF ANY FIELD CONDITIONS EXIST WHICH PRECLUDE COMPLIANCE WITH THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY AFFECTED WORK.
2. DIMENSIONS AND DETAILS SHALL BE CHECKED AGAINST THE PRE MANUFACTURED EQUIPMENT BUILDING SHOP DRAWINGS.
3. THE CONTRACTOR SHALL VERIFY AND COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS, SLEEVES AND ANCHOR BOLTS AS REQUIRED BY ALL TRADES.
4. REFER TO DRAWING T1 FOR ADDITIONAL NOTES AND REQUIREMENTS.

SITE NOTES:

1. THE CONTRACTOR SHALL CALL UTILITIES PRIOR TO THE START OF CONSTRUCTION.
2. ACTIVE EXISTING UTILITIES, WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY, PRIOR TO PROCEEDING, SHOULD ANY UNCOVERED EXISTING UTILITY PRECLUDE COMPLETION OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. ALL RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED OFF SITE AND BE LEGALLY DISPOSED, AT NO ADDITIONAL COST.
4. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE EQUIPMENT AND TOWER AREAS.
5. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
6. THE SUBGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
7. THE AREAS OF THE COMPOUND DISTURBED BY THE WORK SHALL BE RETURNED TO THEIR ORIGINAL CONDITION.
8. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
9. IF ANY FIELD CONDITIONS EXIST WHICH PRECLUDE COMPLIANCE WITH THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL PROCEED WITH AFFECTED WORK AFTER CONFLICT IS SATISFACTORILY RESOLVED.
10. DIMENSIONS AND DETAILS SHALL BE CHECKED AGAINST THE PRE MANUFACTURED EQUIPMENT BUILDING SHOP DRAWINGS.
11. THE CONTRACTOR SHALL VERIFY AND COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS, SLEEVES AND ANCHOR BOLTS AS REQUIRED BY ALL TRADES.

COMPACTED GRAVEL FILL:

1. COMPACTED GRAVEL FILL SHALL BE FURNISHED AND PLACED AS A FOUNDATION FOR STRUCTURES, WHERE SHOWN ON THE CONTRACT DRAWINGS OR DIRECTED BY THE ENGINEER.
2. GRAVEL SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE M.02.02 OF THE CONNECTICUT D.O.T. STANDARD SPECIFICATIONS. ADMIXTURES AND SURFACE PROTECTIVE MATERIALS USED TO PREVENT THE GRAVEL FROM FREEZING MUST MEET THE APPROVAL OF THE ENGINEER. THE LARGEST STONE SIZE SHALL BE 3-1/2 INCHES.
3. SAMPLES OF THE MATERIAL TO BE USED SHALL BE DELIVERED TO THE JOB SITE 5 DAYS PRIOR TO ITS INTENDED USE SO IT MAY BE TESTED FOR APPROVAL.
4. AFTER ALL EXCAVATION HAS BEEN COMPLETED, GRAVEL SHALL BE DEPOSITED IN LAYERS NOT EXCEEDING EIGHT (8) INCHES IN DEPTH OVER THE AREAS. IN EXCEPTIONAL CASES, THE ENGINEER MAY PERMIT THE FIRST LAYER TO BE THICKER THAN EIGHT (8) INCHES. EACH LAYER SHALL BE LEVELED OFF BY SUITABLE EQUIPMENT. THE ENTIRE AREA OF EACH LAYER SHALL BE COMPACTED BY USE OF APPROVED VIBRATORY, PNEUMATIC-TIRED OR TREAD-TYPE COMPACTION EQUIPMENT. COMPACTION SHALL BE CONTINUED UNTIL THE DRY DENSITY OVER THE ENTIRE AREA OF EACH LAYER IS NOT LESS THAN 95 PERCENT OF THE MAXIMUM DRY DENSITY ACHIEVED BY AASHTO T-99 METHOD C. THE MOISTURE CONTENT OF THE GRAVEL SHALL NOT VARY BY MORE THAN 3 %+ FROM ITS OPTIMUM MOISTURE CONTENT. NO SUBSEQUENT LAYER SHALL BE DEPOSITED UNTIL THE SPECIFIED COMPACTION IS ACHIEVED FOR THE PREVIOUS LAYER. IF NECESSARY TO OBTAIN THE REQUIRED COMPACTION, WATER SHALL BE ADDED AND GENTLE PUDDLING PERFORMED IF AUTHORIZED. COMPACTED GRAVEL FILL SHALL BE PREVENTED FROM FREEZING BY USE OF APPROVED ADMIXTURES OR BY USE OF APPROVED PROTECTIVE MATERIALS ON THE SURFACE, OR BOTH.

CONCRETE AND REINFORCING STEEL NOTES:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318.
2. ALL CONCRETE SHALL BE NORMAL WEIGHT, 6% AIR ENTRAINED WITH A MAXIMUM SLUMP OF 4", AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED BARS. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WELDED STEEL WIRE FABRIC. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD UNLESS OTHERWISE INDICATED.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS OTHERWISE NOTED ON THE DRAWINGS:

   CONCRETE CAST AGAINST EARTH.....3 IN.

   CONCRETE EXPOSED TO EARTH OR WEATHER:
   #6 AND LARGER.....2 IN.
   #5 AND SMALLER & WWF.....1 1/2 IN.

   CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
   SLAB AND WALL.....3/4 IN.
   BEAMS AND COLUMNS.....1 1/2 IN.

5. ALL EXPOSED EDGES OF CONCRETE TO RECEIVE A 3/4" CHAMFER IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
6. CONCRETE EQUIPMENT PAD TO RECEIVE A BRUSHED FINISH.
7. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT DURING DRILLING WITHOUT PRIOR REVIEW BY THE ENGINEER.

DESIGNED BY:	CFC
DRAWN BY:	TSP
CHK'D BY:	DMD

DESCRIPTION	CHK'D BY	DRAWN BY	DATE
ISSUED FOR CSC	DMD	DMD	04/27/10
ISSUED FOR CSC - CLIENT REVIEW	CFC	DMD	03/30/10

STATE OF CONNECTICUT — CHRISTOPHER F. CRONIN — 21656 — LICENSED PROFESSIONAL ENGINEER

Cellco Partnership d/b/a Verizon Wireless

CENTEK engineering
Centered on Solutions℠
(203) 488-0580
(203) 488-8587 Fax
63-2 North Branford Road
Branford, CT 06405
www.CentekEng.com

WIRELESS COMMUNICATIONS FACILITY
CORNWALL, CT
16 BELL ROAD EXTENSION
CORNWALL, CT 06754

DATE:	03/29/10
SCALE:	AS NOTED
JOB NO.	08168

SHELTER FOUNDATION PLAN, DETAILS & NOTES

C-6

Sheet No. 8 of 8

CERTIFICATION OF SERVICE

I hereby certify that on this 6th day of May, 2010, copies of the Application and attachments were sent certified mail, return receipt requested, to the following:

STATE OFFICIALS:

The Honorable Richard Blumenthal
Attorney General
Office of the Attorney General
55 Elm Street
Hartford, CT 06106

Peter J. Boynton, Commissioner
Department of Emergency Management and Homeland Security
25 Sigourney Street, 6th Floor
Hartford, CT 06106-5042

Amey Marrella, Commissioner
Connecticut Department of Environmental Protection
79 Elm Street
Hartford, CT 06106

J. Robert Galvin, M.D., M.P.H., M.B.A., Commissioner
Department of Public Health and Addiction Services
410 Capitol Avenue
P.O. Box 340308, MS 13COM
Hartford, CT 06134-0308

Karl J. Wagener, Executive Director
Council on Environmental Quality
79 Elm Street
P.O. Box 5066
Hartford, CT 06106

Kevin M. DelGobbo, Chairman
Department of Public Utility Control
Ten Franklin Square
New Britain, CT 06051

Robert L. Genuario, Secretary
Office of Policy and Management
450 Capitol Avenue
Hartford, CT 06134-1441

Joan McDonald, Commissioner
Department of Economic and Community Development
505 Hudson Street
Hartford, CT 06106

Joseph F. Marie, Commissioner
Department of Transportation
P.O. Box 317546
2800 Berlin Turnpike
Newington, CT 06131-7546

David Bahlman, Division Director
Deputy State Historic Preservation Officer
Connecticut Commission on Culture & Tourism
Historic Preservation and Museum Division
One Constitution Plaza, 2nd Floor
Hartford, CT 06103

CORNWALL TOWN OFFICIALS:

Gordon Ridgway
First Selectman
Town of Cornwall
26 Pine Street
Cornwall, CT 06753

The Honorable Andrew Roraback
Senator
455 Milton Road
Goshen, CT 06756

The Honorable Roberta B. Willis
Representative – 64th District
30 Upland Meadow Road
Lakeville, CT 06039

Vera Dineen
Town Clerk
Town of Cornwall
26 Pine Street
Cornwall, CT 06753

Patrick Hare, Chairman
Planning and Zoning Commission
Town of Cornwall
26 Pine Street
Cornwall, CT 06753

D. Stevenson Hedden, Chairman
Inland Wetlands and Watercourses Agency
Town of Cornwall
26 Pine Street
Cornwall, CT 06753

Karen Nelson
Land Use Clerk/Zoning Enforcement Officer
Town of Cornwall
26 Pine Street
Cornwall, CT 06753

Joanne Wojtusiak, Chairman
Zoning Board of Appeals
Town of Cornwall
26 Pine Street
Cornwall, CT 06753

SHARON TOWN OFFICIALS:

Robert Loucks
First Selectman
Town of Sharon
63 Main Street
Sharon, CT 06069

The Honorable Andrew Roraback
Senator
455 Milton Road
Goshen, CT 06756

The Honorable Roberta B. Willis
Representative – 64th District
30 Upland Meadow Road
Lakeville, CT 06039

Linda R. Amerighi
Town Clerk
Town of Sharon
63 Main Street
Sharon, CT 06069

Barclay Prindle, Chairman
Planning and Zoning Commission
Town of Sharon
63 Main Street
Sharon, CT 06069

Edward Kirby, Chairman
Inland Wetlands and Watercourse Commission
Town of Sharon
63 Main Street
Sharon, CT 06069

Jamie Casey
Zoning Enforcement Officer
Town of Sharon
63 Main Street
Sharon, CT 06069

William Trowbridge, Chairman
Zoning Board of Appeals
Town of Sharon
63 Main Street
Sharon, CT 06069

Northwestern Connecticut Council of Governments
17 Sackett Hill Road
Warren, CT 06754

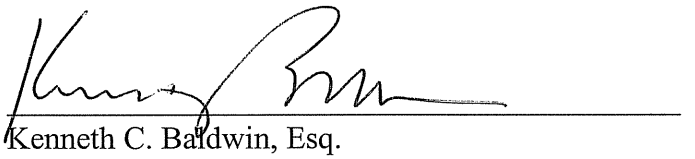
FEDERAL OFFICIALS:

The Honorable Christopher Dodd
United States Senator
448 Russell Senate Office Building
Washington, DC 20510

The Honorable Joseph Lieberman
United States Senator
706 Hart Senate Office Building
Washington, DC 20510

The Honorable Chris Murphy
Representative
412 Cannon HOB
Washington, DC 20515

Federal Communications Commission
445 12th Street SW
Washington, DC 20554



Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103
Telephone: (860) 275-8200
Attorneys for Cellco Partnership d/b/a Verizon Wireless

LEGAL NOTICE

Notice is hereby given, pursuant to Section 16-50*l*(b) of the Connecticut General Statutes and Regulations pertaining thereto, of an Application to be submitted to the Connecticut Siting Council ("Council") on or about May 6, 2010, by Cellco Partnership d/b/a Verizon Wireless ("Cellco" or the "Applicant"). The Application proposes the installation of a wireless telecommunications facility in Cornwall, Connecticut. The installation would consist of a 100' x 100' leased area within a 41 acre parcel located at 16 Bell Road Extension, owned by Ralph Gulliver, Jr. At this site, Cellco proposes to construct a 110-foot tower. Access to the site will extend from Bell Road over an existing gravel driveway a distance of 1,675 feet, then over a new gravel driveway extension an additional distance of 545 feet to the cell site. Cellco will also install a 12' x 24' shelter located near the base of the tower to house its radio equipment and a back-up generator. The location and other features of the proposed facility are subject to change under provisions of Connecticut General Statutes § 16-50g et. seq.

On the day of the Siting Council public hearing on this proposal, Cellco will fly a balloon at the height of the proposed tower described above. Interested parties and residents of the Town of Cornwall are invited to review the Application on or after May 6, 2010, during normal business hours at any of the following offices:

Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Cellco Partnership d/b/a Verizon Wireless
99 East River Drive
East Hartford, CT 06108

Town Clerk
Town of Cornwall
26 Pine Street
Cornwall, CT 06753

Office of the First Selectman
Town of Cornwall
26 Pine Street
Cornwall, CT 06753

Town Clerk
Town of Sharon
63 Main Street
Sharon, CT 06069

Office of the First Selectman
Town of Sharon
63 Main Street
Sharon, CT 06069

or the offices of the undersigned. All inquiries should be addressed to the Connecticut Siting Council or to the undersigned.

CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS

Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103-3597
(860) 275-8200
Its Attorneys

KENNETH C. BALDWIN

280 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

May 3, 2010

Via Certified Mail Return Receipt Requested

«Name_and_Address»

Re: **Cellco Partnership d/b/a Verizon Wireless**
Proposed Telecommunications Facility
Cornwall, Connecticut

Dear «Salutation»:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") will be submitting an application to the Connecticut Siting Council ("Council") on or about May 6, 2010, for approval of the construction of a telecommunications facility in the Town of Cornwall, Connecticut.

The proposed facility location would consist of a new 110-foot telecommunications tower and a 12' x 24' equipment shelter located on a 41 acre parcel at 16 Bell Road Extension. This parcel is owned by Ralph Gulliver, Jr. An on-site backup generator would also be installed inside Cellco's shelter. The tower would be designed to accommodate multiple carriers. Access to the facility would extend directly from Bell Road over an existing driveway a distance of 1,675 feet then over a new driveway extension an additional 545 feet to the cell site.

The location and other features of the proposed facility are subject to change under the provisions of Connecticut General Statutes § 16-50g et seq.

State law provides that owners of record of property which abuts a parcel on which the proposed facility may be located must receive notice of the submission of this application. This notice is directed to you either because you may be an abutting land owner or as a courtesy notice.

If you have any questions concerning the application, please direct them to either the Connecticut Siting Council or me. My address and telephone number are listed above. The Siting Council may be reached at its New Britain, Connecticut office at (860) 827-2935.

Very truly yours,

Kenneth C. Baldwin

ADJACENT PROPERTY OWNERS

SITE NAME: CORNWALL

OWNER NAME: TOWN OF CORNWALL

OWNER ADDRESS: 16 BELL ROAD EXTENSION, CORNWALL, CONNECTICUT 06754

ASSESSOR'S REFERENCE: MAP: C07 BLOCK: 01 LOTS: 01

THE FOLLOWING INFORMATION WAS COLLECTED FROM THE TAX ASSESSOR'S RECORDS AND LAND RECORDS OF CORNWALL TOWN HALL, CORNWALL, CONNECTICUT. THE INFORMATION IS CURRENT AS OF APRIL 28, 2010.

	Map/Blk/Lot	Property Address	Owner Name and Mailing Address
1.	B05/1/1	Popple Swamp Road	State of Connecticut 450 Capitol Avenue Hartford, CT 06134
2.	C08/1/8	Lower River Road	Trinity Episcopal Center Association, Inc. 79 Lower River Road West Cornwall, CT 06796
3.	C06/1/12	Popple Swamp Road	Patrick H. Hare P.O. Box 65 Cornwall, CT 06753
4.	C06/1/11	8 Bell Road	Marion A. Bell 8 Bell Road Cornwall Bridge, CT 06754
5.	C06/1/10	2 Bell Road Extension	Gustav Haller, Jr. P.O. Box 1 Cornwall Bridge, CT 06754
6.	C06/1/9	66 Popple Swamp Road	Frederic I. Thaler 66 Popple Swamp Road Cornwall Bridge, CT 06754
7.	C06/1/6	78 Popple Swamp Road	Matthew R. and Patricia Collins 78 Popple Swamp Road Cornwall Bridge, CT 06754

	Map/Blk/Lot	Property Address	Owner Name and Mailing Address
8.	C06/2/8	55 Popple Swamp Road	Nicholas P. and Caroline Daifotis 239 Brushy Ridge Road New Canaan, CT 06840
9.	C06/1/8	72 Popple Swamp Road	Frank and Marie Trager 72 Popple Swamp Road Cornwall Bridge, CT 06754

CERTIFICATION OF SERVICE

I hereby certify that a copy of the foregoing letter was sent by certified mail, return receipt requested, to each of the parties on the attached lists of abutting landowners.

5-3-10
Date

Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103

Attorneys for CELLCO PARTNERSHIP d/b/a
VERIZON WIRELESS

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
1120 SANCTUARY PKWY #150 - GASA5REG
ALPHARETTA, GA 30004

Call Sign	File Number
WQJQ689	0003382444
Radio Service	
WU - 700 MHz Upper Band (Block C)	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
11-26-2008	11-26-2008	02-17-2019	12-03-2008

Market Number	Channel Block	Sub-Market Designator
REA001	C	0

Market Name
Northeast

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
02-17-2013	02-17-2019		

Waivers/Conditions:

If the facilities authorized herein are used to provide broadcast operations, whether exclusively or in combination with other services, the licensee must seek renewal of the license either within eight years from the commencement of the broadcast service or within the term of the license had the broadcast service not been provided, whichever period is shorter in length. See 47 CFR §27.13(b).

This authorization is conditioned upon compliance with section 27.16 of the Commission's rules.

Conditions:
Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

To view the geographic areas associated with the license, go to the Universal Licensing System (ULS) homepage at http://wireless.fcc.gov/uls and select "License Search". Follow the instructions on how to search for license information.

FCC 601-MB
August 2007

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
1120 SANCTUARY PKWY #150 - GASA5REG
ALPHARETTA, GA 30004

Call Sign	File Number
WQJQ696	0003382435
Radio Service	
WY - 700 MHz Lower Band (Blocks A, B, E)	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
11-26-2008	11-26-2008	02-17-2019	12-03-2008

Market Number	Channel Block	Sub-Market Designator
BEA010	A	0

Market Name
New York-No. New Jer.-Long Isl

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
02-17-2013	02-17-2019		

Waivers/Conditions:

If the facilities authorized herein are used to provide broadcast operations, whether exclusively or in combination with other services, the licensee must seek renewal of the license either within eight years from the commencement of the broadcast service or within the term of the license had the broadcast service not been provided, whichever period is shorter in length. See 47 CFR §27.13(b).

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To view the geographic areas associated with the license, go to the Universal Licensing System (ULS) homepage at http://wireless.fcc.gov/uls and select "License Search". Follow the instructions on how to search for license information.

Federal Communications Commission
Wireless Telecommunications Bureau

Radio Station Authorization (Reference Copy)

This is not an official FCC license. It is a record of public information contained in the FCC's licensing database on the date that this reference copy was generated. In cases where FCC rules require the presentation, posting, or display of an FCC license, this document may not be used in place of an official FCC license.

Licensee: ALLTEL Newco LLC

ATTN Wireless Regulatory Supervisor
ALLTEL Newco LLC
One Allied Drive, B2F2-A
Little Rock, AR 72202

FCC Registration Number (FRN): 0012284394	
Call Sign: KNKN833	**File Number:**
Radio Service: CL - Cellular	
Market Number CMA357	**Channel Block** A
Market Name Connecticut 1 - Litchfield	**Sub-Market Designator** 0

Grant Date	Effective Date	Expiration Date	Five Yr Build-Out Date	Print Date
10/16/2001	11/10/2007	10/01/2011	11/15/1996	12/20/2007

Site Information

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)		Antenna Structure Registration No.
3	41-49-16.6 N	073-17-47.1 W	514.2	26.8		
Address			**City**	**County**	**State**	**Construction Deadline**
Mohawk Mountain			Mohawk	LITCHFIELD	CT	

Antenna: 3 Azimuth (degrees from true north)	0°	45°	90°	135°	180°	225°	270°	315°
Antenna Height AAT (meters)	178.5	113.0	194.5	187.7	230.2	134.2	207.6	219.3

Transmitting ERP (watts)	68.380	124.450	56.870	7.320	0.440	0.240	0.680	10.110
Antenna: 4 Azimuth (degrees from true north)	**0°**	**45°**	**90°**	**135°**	**180°**	**225°**	**270°**	**315°**
Antenna Height AAT (meters)	178.5	113.0	194.5	187.7	230.2	134.2	207.6	219.3
Transmitting ERP (watts)	0.550	1.550	25.400	161.340	278.610	134.200	18.400	1.010

Location	**Latitude**	**Longitude**	**Ground Elevation (meters)**	**Structure Hgt to Tip (meters)**		**Antenna Structure Registration No.**
8	41-44-12.3 N	073-05-49.3 W	223.7	56.3		
Address			**City**	**County**	**State**	**Construction Deadline**
123 Campville Hill Rd (Harwinton site)			Terryville	LITCHFIELD	CT	

Antenna: 1 Azimuth (degrees from true north)	**0°**	**45°**	**90°**	**135°**	**180°**	**225°**	**270°**	**315°**
Antenna Height AAT (meters)	30.0	30.2	68.0	41.4	69.0	30.0	30.0	30.0
Transmitting ERP (watts)	59.560	184.070	146.210	34.270	3.500	0.370	0.660	9.660
Antenna: 2 Azimuth (degrees from true north)	**0°**	**45°**	**90°**	**135°**	**180°**	**225°**	**270°**	**315°**
Antenna Height AAT (meters)	30.0	30.2	68.0	41.4	69.0	30.0	30.0	30.0
Transmitting ERP (watts)	0.380	5.550	41.200	160.320	171.790	50.690	6.530	0.400
Antenna: 3 Azimuth (degrees from true north)	**0°**	**45°**	**90°**	**135°**	**180°**	**225°**	**270°**	**315°**
Antenna Height AAT (meters)	30.0	30.2	68.0	41.4	69.0	30.0	30.0	30.0
Transmitting ERP (watts)	60.950	9.010	0.450	0.360	4.120	33.400	146.200	184.000

Location	**Latitude**	**Longitude**	**Ground Elevation (meters)**	**Structure Hgt to Tip (meters)**	**Antenna Structure Registration No.**

9	41-53-37.7 N	072-59-47.3 W	241.7	45.7	1250429

Address	City	County	State	Construction Deadline
50 Rust Road (Barhamstead Site)	Litchfield	LITCHFIELD	CT	

Antenna: 1 Azimuth (degrees from true north)	**0°**	**45°**	**90°**	**135°**	**180°**	**225°**	**270°**	**315°**
Antenna Height AAT (meters)	30.0	30.0	75.2	134.2	30.0	30.0	30.0	30.0
Transmitting ERP (watts)	153.100	62.370	7.850	0.390	0.300	0.980	12.730	86.000
Antenna: 2 Azimuth (degrees from true north)	**0°**	**45°**	**90°**	**135°**	**180°**	**225°**	**270°**	**315°**
Antenna Height AAT (meters)	30.0	30.0	75.2	134.2	30.0	30.0	30.0	30.0
Transmitting ERP (watts)	0.260	3.500	17.570	22.130	6.380	0.680	0.100	0.100
Antenna: 3 Azimuth (degrees from true north)	**0°**	**45°**	**90°**	**135°**	**180°**	**225°**	**270°**	**315°**
Antenna Height AAT (meters)	30.0	30.0	75.2	134.2	30.0	30.0	30.0	30.0
Transmitting ERP (watts)	1.330	0.280	0.280	4.410	44.150	142.880	108.390	20.650

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
10	41-51-43.3 N	073-23-58.6 W	419.1	60.0	

Address	City	County	State	Construction Deadline
7 Sirdan Mountain Road (Cornwall Site)	Cornwall	LITCHFIELD	CT	

Antenna: 1 Azimuth (degrees from true north)	**0°**	**45°**	**90°**	**135°**	**180°**	**225°**	**270°**	**315°**
Antenna Height AAT (meters)	195.9	156.2	78.9	137.2	168.3	131.8	229.4	196.2
Transmitting ERP (watts)	10.710	6.510	1.140	0.100	0.100	0.100	0.940	5.830

Control Points

None

Waivers/Conditions

This license is conditioned upon compliance with the provisions of Applications of AT&T Wireless Services, Inc. and Cingular Wireless Corporation For Consent to Transfer Control of Licenses and Authorizations, Memorandum Opinion and Order, FCC 04-255 (rel. Oct. 26, 2004).

Spectrum Lease Associated with this License. See Spectrum Leasing Arrangement Letter dated 12/06/2004 and File # 0001918527.

The Spectrum Leasing Arrangement, which became effective upon approval of application file number 0001918527, was terminated on 04/14/2005. See file number 0002135354.

Conditions
Pursuant to Section 309(h) of the Communications Act of 1934, as amended, 47 U.S.C. Section 309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. Section 310(d). This license is subject in terms to the right of use or control conferred by Section 706 of the Communications Act of 1934, as amended. See 47 U.S.C. Section 606.

FCC 601 - C
August 2002

ULS License

PCS Broadband License - KNLH262 - Cellco Partnership

Call Sign	KNLH262	Radio Service	CW - PCS Broadband
Status	Active	Auth Type	Regular

Market

Market	BTA318 - New Haven-Waterbury-Meriden, CT	Channel Block	F
Submarket	0	Associated Frequencies (MHz)	001890.00000000-001895.00000000 001970.00000000-001975.00000000

Dates

Grant	07/23/2007	Expiration	06/27/2017
Effective	07/23/2007	Cancellation	

Buildout Deadlines

1st	06/27/2002	2nd	

Notification Dates

1st	06/10/2002	2nd	

Licensee

FRN	0003290673	Type	Joint Venture

Licensee

Cellco Partnership
1120 Sanctuary Pkwy, #150 GASA5REG
Alpharetta, GA 30004
ATTN Regulatory

P:(770)797-1070
F:(770)797-1036
E:Network.Regulatory@VerizonWireless.com

Contact

Verizon Wireless
Sonya R Dutton
1120 Sanctuary Pkwy, #150 GASA5REG
Alpharetta, GA 30004
ATTN Regulatory

P:(770)797-1070
F:(770)797-1036
E:Network.Regulatory@VerizonWireless.com

Ownership and Qualifications

Radio Service Type Mobile

Regulatory Status Common Carrier Interconnected Yes

Alien Ownership

Is the applicant a foreign government or the representative of any foreign government?	No
Is the applicant an alien or the representative of an alien?	No
Is the applicant a corporation organized under the laws of any foreign government?	No

Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	No
Is the applicant directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof, or by any corporation organized under the laws of a foreign country?	**Yes**
If the answer to the above question is 'Yes', has the applicant received a ruling(s) under Section 310(b)(4) of the Communications Act with respect to the same radio service involved in this application?	

Basic Qualifications
The Applicant answered "No" to each of the Basic Qualification questions.

Tribal Land Bidding Credits
This license did not have tribal land bidding credits.

Demographics

Race

Ethnicity Gender