



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

www.ct.gov/csc

August 24, 2012

Steven L. Levine
New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, CT 06067

RE: **EM-CING-038-120816** - New Cingular Wireless PCS, LLC notice of intent to install a temporary cellular telecommunications facility at the 2012 Durham Agricultural Fair, Durham, Connecticut.

Dear Mr. Levine:

The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the following conditions:

- Any deviation from the proposed modification as specified in this notice and supporting materials with Council shall render this acknowledgement invalid;
- Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
- Not less than 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
- The validity of this action shall expire one year from the date of this letter; and
- The applicant may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration;

The proposed modifications including the placement of all necessary equipment and shelters within the tower compound are to be implemented as specified here and in your notice dated August 16, 2012. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding



the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Thank you for your attention and cooperation.

Very truly yours,



Linda Roberts
Executive Director

LR/CDM/cm

c: The Honorable Laura L. Francis, First Selectman, Town of Durham
Geoffrey Colegrove, Town Planner, Town of Durham



EM-CING-038-120816

Cingular Wireless PCS, LLC
Enterprise Drive
Hill, Connecticut 06067-3900
(860) 513-7636
(860) 513-7190

Steven L. Levine
Real Estate Consultant

August 16, 2012

Honorable Robert Stein, Chairman,
and Members of the Council
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051



Re: Proposed New Cingular Wireless PCS, LLC Temporary Cellular Communications Site at the 2012 Durham Agricultural Fair, Durham, CT

Dear Chairman Stein and Members of the Council:

New Cingular Wireless PCS, LLC ("AT&T") intends to install a temporary cellular communications facility for use during the 2012 Durham Agricultural Fair. Please accept this letter as notification to the Connecticut Siting Council ("Council"), pursuant to R.C.S.A Section 16-50j-73, of construction that constitutes an exempt modification under R.C.S.A Section 16-50j-72(d). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter is being sent to the First Selectman of Durham.

The proposed temporary cell site meets the criteria set forth in R.C.S.A Section 16-50j-72(d) for temporary cellular service for events of statewide significance. This site is necessary to provide additional system capacity to accommodate increased communication needs during the Fair.

As in 2010 and 2011, moreover, AT&T plans to operate a Wi-Fi network during the Fair to serve vendors and fairgoers needing Internet access.

The Durham Agricultural Fair will be held at the Durham Fairgrounds on September 27- 30, 2012.

Proposed Temporary Facility

AT&T operates under licenses issued by the Federal Communications Commission ("FCC") to provide cellular and PCS mobile telephone service in Middlesex County, which includes the area to be served by AT&T's proposed temporary installation.

The temporary cell site will be located off Town House Road in Durham on property of the Durham Agricultural Fair Association. (See the attached location map.)

The site will begin operations on or about August 31 to be available during set-up of the Fair, and it will be removed no more than 5 business days after conclusion of the event.

AT&T's temporary cell site will consist of radio equipment installed in a vehicle referred to as a "Cell on Wheels" ("COW"). The COW is 17 feet in length, 8 feet wide, and 12-½ feet in height. A mast will be extended upward from the COW to a height of approximately 48 feet above ground level ("AGL") to support the AT&T antennas as shown on the attached site plan. Two antennas approximately 4 feet in length will be mounted on a boom at the top of the mast, for a total height of 52 feet AGL and an antenna centerline of 50 feet. Electric power will be provided by the Agricultural Fair Association.

Power Density Calculations.

AT&T's temporary cell site will not result in a total radio frequency electromagnetic radiation power density, measured at ground level in this location, at or above State or Federal standards. The following table shows the power density at the site from the proposed temporary cell and Wi-Fi transmissions from the COW.

Company	Centerline Height (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density [†] (mW/cm ²)	Standard Limits (mW/cm ²)	Percent of Limit
AT&T UMIS	50	880 - 894	2	500	0.1438	0.5867	24.51
AT&T UMIS	50	1900 Band	2	500	0.1438	1.0000	14.38
AT&T Wi-Fi	50	5800	3	1.6	0.0007	1.0000	0.07
Total							38.97%

[†] Please note that the standard power density equation provided by the Council in its memo of January 22, 2001 incorporates a ground reflection factor of 2.56 as described in FCC OET Bulletin No. 65.

This "worst-case" power density calculation shows that AT&T's temporary transmissions from the COW will result in a power density corresponding to approximately 39 % of the ANSI/IEEE standard for uncontrolled environments. Therefore, total worst-case density levels from temporary cellular operations at this location would be within the applicable standard limits.

Additionally, AT&T proposes to install a Wi-Fi network consisting of 13 temporary Wi-Fi repeater stations distributed throughout the fairgrounds to serve vendors and other Internet users. (See attachments for repeater locations and a typical Wi-Fi station photograph.) The COW will communicate with the repeaters as described in the prior table over a low-power 5800 MHz link. The repeaters, in turn, will communicate with user devices over even lower-power 2400 MHz transmissions, each repeater station creating its own local RF mini-environment. As demonstrated below, the repeater-to-user RF emissions will be negligible.

Company	Centerline Height (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density [†] (mW/cm ²)	Standard Limits (mW/cm ²)	Percent of Limit
AT&T Wi-Fi	10	2400	3	1	0.0108	1.0000	1.08

For the reasons above, we respectfully request that the Council approve AT&T's proposed temporary cell site and Wi-Fi network for use during the Durham Agricultural Fair pursuant to R.C.S.A. Section 16-50j-72(d).

Respectfully yours,



Steven Levine
Real Estate Consultant

cc: Honorable Laura L. Francis, 1st Selectman, Town of Durham



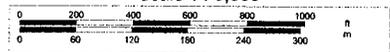
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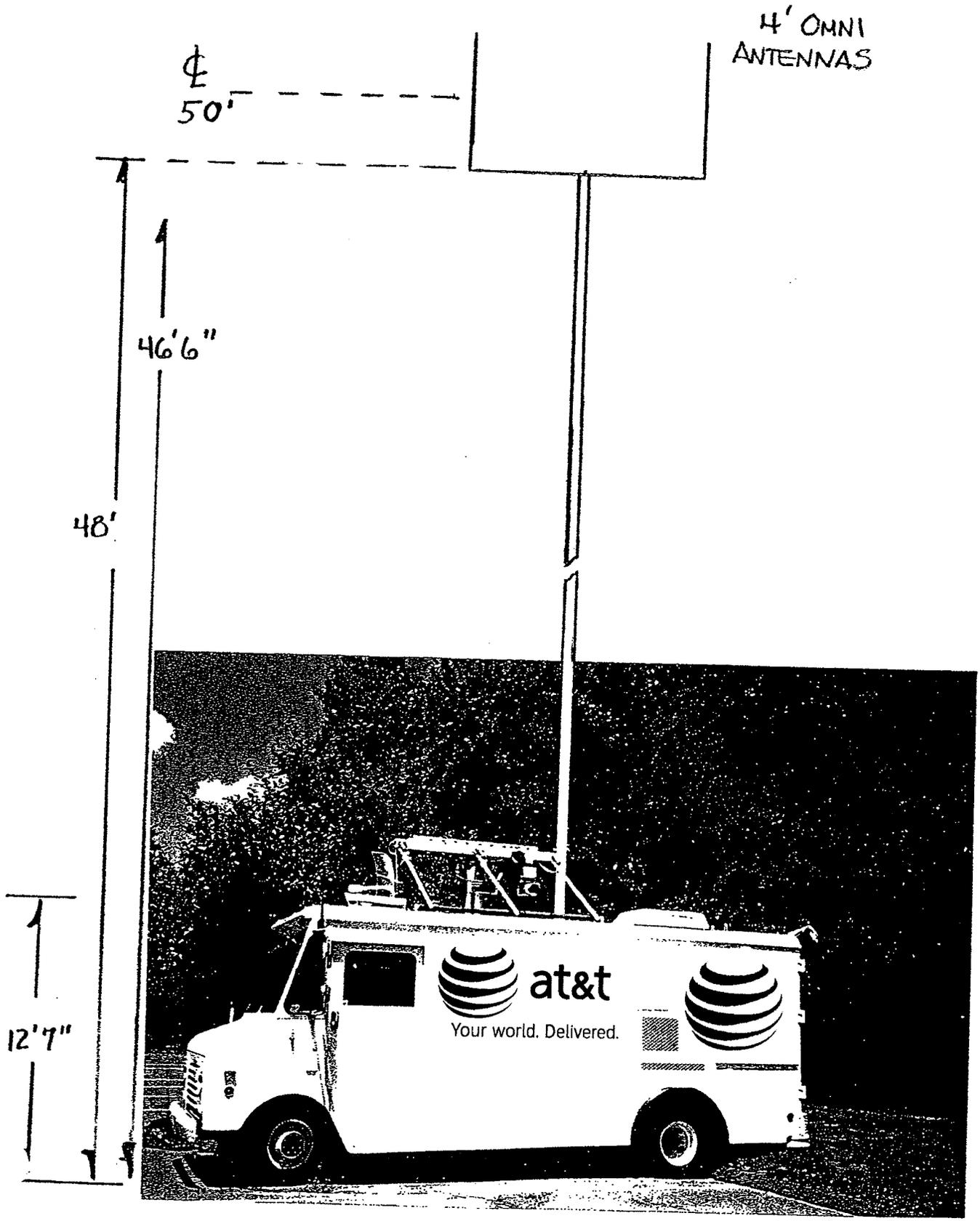
www.delorme.com



Scale 1 : 8,000

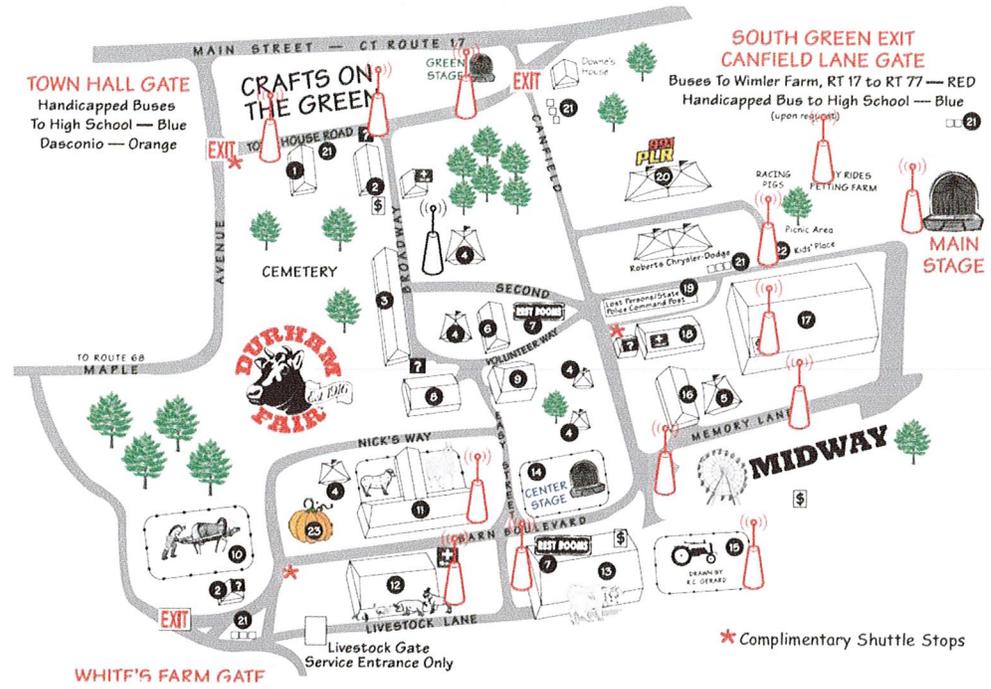


1" = 666.7 ft Data Zoom 14-6

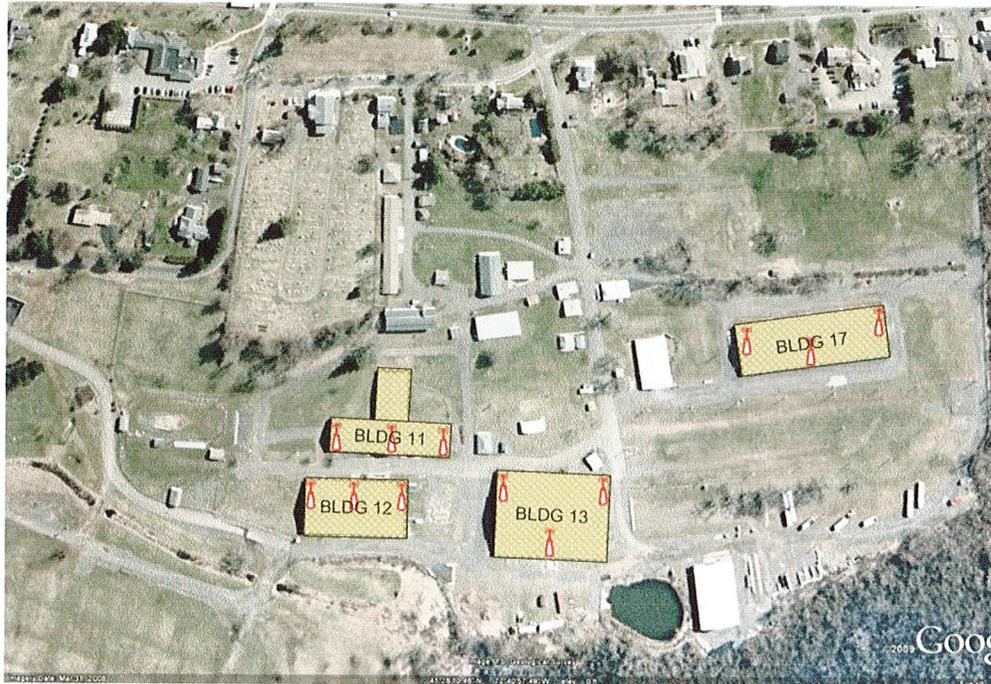


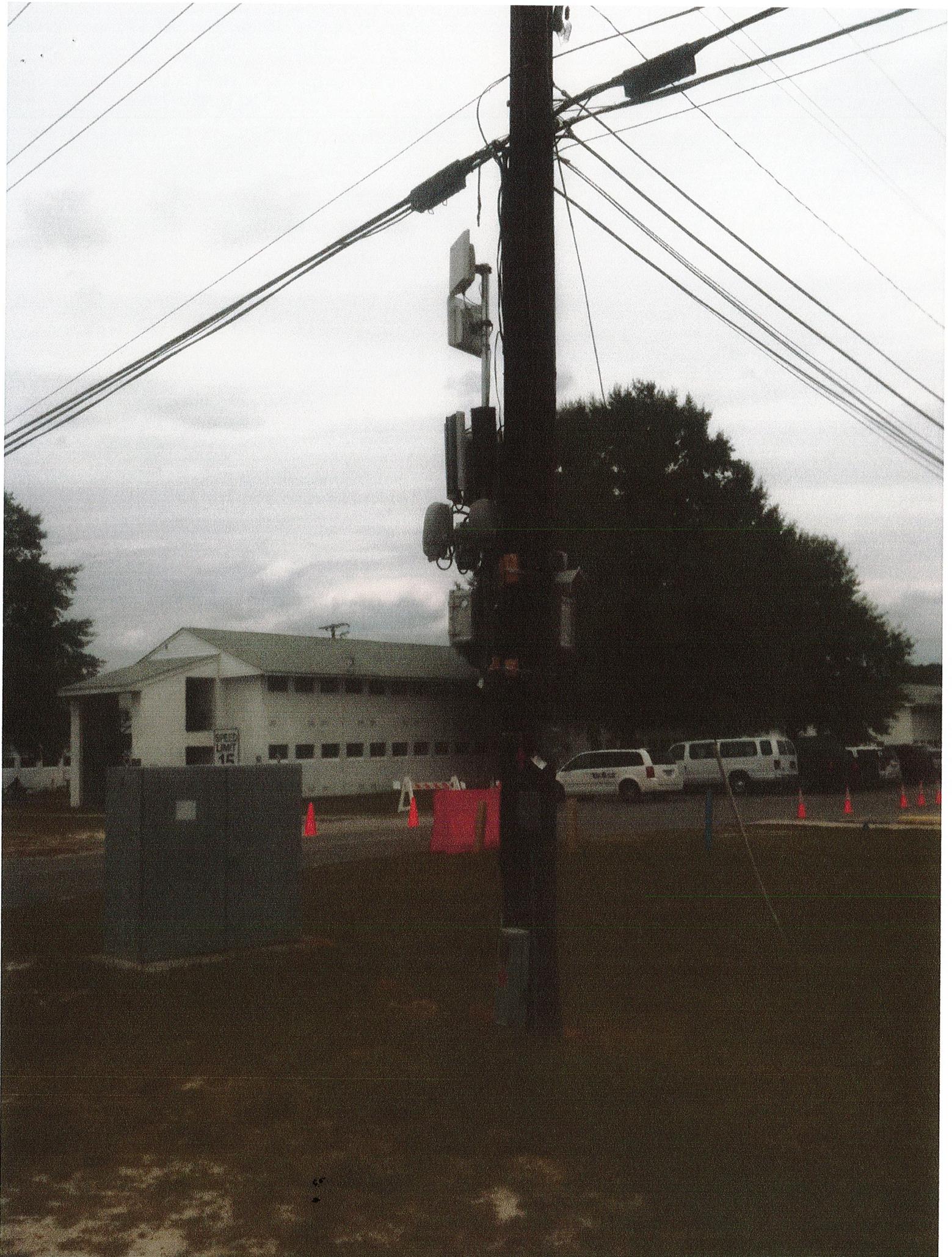
AT&T "COW" (Cell On Wheels)

Cluster location applied to the event's location map



Interior coverage areas







New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7636
Fax: (860) 513-7190

Steven L. Levine
Real Estate Consultant

August 16, 2012

Honorable Laura L. Francis
1st Selectman, Town of Durham
Town Hall, 30 Town House Rd.
Durham, Connecticut 06422

**Re: Proposed New Cingular Wireless PCS, LLC Temporary Cellular Communications Site
at the 2012 Durham Agricultural Fair, Durham, CT**

Dear Ms. Francis:

New Cingular Wireless PCS, LLC ("AT&T") intends to install a temporary cellular and Wi-Fi communications facility for use during the upcoming 2012 Durham Agricultural Fair.

A Notice of Exempt Modification has been filed with the Connecticut Siting Council as required by Regulations of Connecticut State Agencies ("R.C.S.A.") Section 16-50j-73. Please accept this letter as notification to the Town of Durham under Section 16-50j-73 of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(d).

The attached letter fully sets forth the AT&T proposal. However, if you have any questions or require any further information on the plans for the site or the Siting Council's procedures, please contact the undersigned or Ms. Linda Roberts, Executive Director of the Connecticut Siting Council, at (860) 827-2935.

Sincerely,

Steven Levine
Real Estate Consultant

Enclosure