



**Centek Engineering, Inc.**  
3-2 North Branford Road  
Branford, Connecticut 06405  
Phone: (203) 488-0580  
Fax: (203) 488-8587

**Steven L. Levine**  
Real Estate Consultant

July 25, 2016

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 2016 Durham Agricultural Fair, Durham, CT**

Dear Chairman Stein and Members of the Council:

Centek Engineering, Inc. is pleased to submit this Notice of Exempt Modification on behalf of New Cingular Wireless PCS, LLC ("AT&T").

AT&T intends to install a temporary cellular communications facility for service during the 2016 Durham Agricultural Fair. Please accept this Notice 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, copies of this Notice of Exempt Modification are being sent to the First Selectman of Durham and to the Durham Agricultural Fair Association, which owns the fairgrounds property.

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.

**Proposed Temporary Facility**

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. Unlike 2010 - 2015, AT&T does not plan to operate a Wi-Fi network during the Fair.

The Durham Agricultural Fair will be held at the Durham Fairgrounds off CT Route 17 on September 22 - 25, 2016.

The temporary cell site will be located off Town House Road in Durham on property owned by the Durham Agricultural Fair Association. (See the attached Assessor's card and location maps.) Coordinates for the location are N41 - 28 - 12.5, W72 - 40 - 54. An email from the president of

the Agricultural Fair Association authorizing AT&T's use the property for the temporary cell site is attached. Electric power will be provided by the Agricultural Fair Association.

AT&T's equipment will be deployed to the fairgrounds on or about August 22. The site will begin on-air operations on or about September 8 to be available during set-up of the Fair, and it will operate for less than three weeks. Removal is scheduled within five days after the Fair concludes.

AT&T's temporary cell site will consist of radio equipment installed in a trailer-mounted unit referred to as a "Cell on Light Truck" ("COLT"). (See the attached drawings and photo.) The COLT is 33 feet in length overall, 8 feet in width, and 12½ feet in height. The COLT carries three integrated pneumatic telescoping antenna masts, two of which can be extended to a height of 38 ft above ground, while the third can be extended to a height of 65 ft above ground. Guy lines will stabilize and support the antenna masts when extended. The proposed temporary cell site will not increase noise level by six decibels or more.

The two shorter masts will each be fitted with a single Kathrein antenna (total of 2) at centerline heights of 39 feet. A CCI panel antenna will be mounted to the taller mast at a centerline height of 59 feet above ground. Due to a larger number of active transmit channels, the CCI antenna atop the taller mast will serve the "worst case" sector in terms of RF emissions (see below).

**Power Density Calculations**

AT&T's temporary cell site will not result in a total radio frequency electromagnetic radiation power density, measured at six feet above ground level at the COLT location, at or above State or Federal standards. The following table shows the worst-case power density calculation with 10 dB reduction at the site from the proposed temporary cellular transmissions from the COLT.

<b>Transmissions</b>	<b>Centerline Height (feet)</b>	<b>Frequency (MHz)</b>	<b>Number of Channels</b>	<b>Power Per Channel (Watts)</b>	<b>Power Density<sup>†</sup> (mW/cm<sup>2</sup>)</b>	<b>Standard Limits (mW/cm<sup>2</sup>)</b>	<b>Percent of Limit</b>
AT&T LTE	59	700	4	500	0.2559	0.4667	5.48
AT&T LTE	59	1900	8	500	0.5118	1.0000	5.12
<b>Total</b>							<b>10.60%</b>

<sup>†</sup> 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 COLT will result in a power density corresponding to approximately 10.6 % of the ANSI/IEEE standard for uncontrolled environments. Therefore, total worst-case density levels from temporary cellular operations at the COLT location would be within the applicable standard limits.

**Conclusion**

For the reasons above, we respectfully request that the Council acknowledge AT&T's Notice of

Exempt Modification for the temporary cell site to be operated during the 2016 Durham Agricultural Fair pursuant to R.C.S.A. Section 16-50j-72(d).

Please call me at 860-830-0380 should you have any questions concerning this Notice. Thank you for your consideration in this matter.

Respectfully yours,

A handwritten signature in black ink, appearing to read 'S. Levine', written in a cursive style.

Steven Levine  
Real Estate Consultant

cc: Town CEO: Honorable Laura L. Francis, 1<sup>st</sup> Selectman, Town of Durham  
Property Owner of Record: Daniel Miramant, Durham Agricultural Fair Association

Attachments

## Durham, CT : Commercial Property Record Card

Parcel ID	Card	Routing No	Location	Zoning	State Class	Acres
D0079000	4	48 02+58 13	24 TOWN HOUSE RD	MR/FR	950 - n/a	30.510
Living Units						
1						

Owner Information  
Durham Agricultural Fair Assoc

Property Picture



Deed Information  
Book/Page: 69/431  
Deed Date: 1965/12/09

Building Information  
Building No: 2  
Year Built: 1930  
No of Units: 1  
Structure Type: Food Stand  
Grade: D  
Identical Units: 1

Valuation  
Land: \$1,918,000  
Building: \$2,460,600  
Total: \$4,378,600  
Net Assessment: \$3,065,020

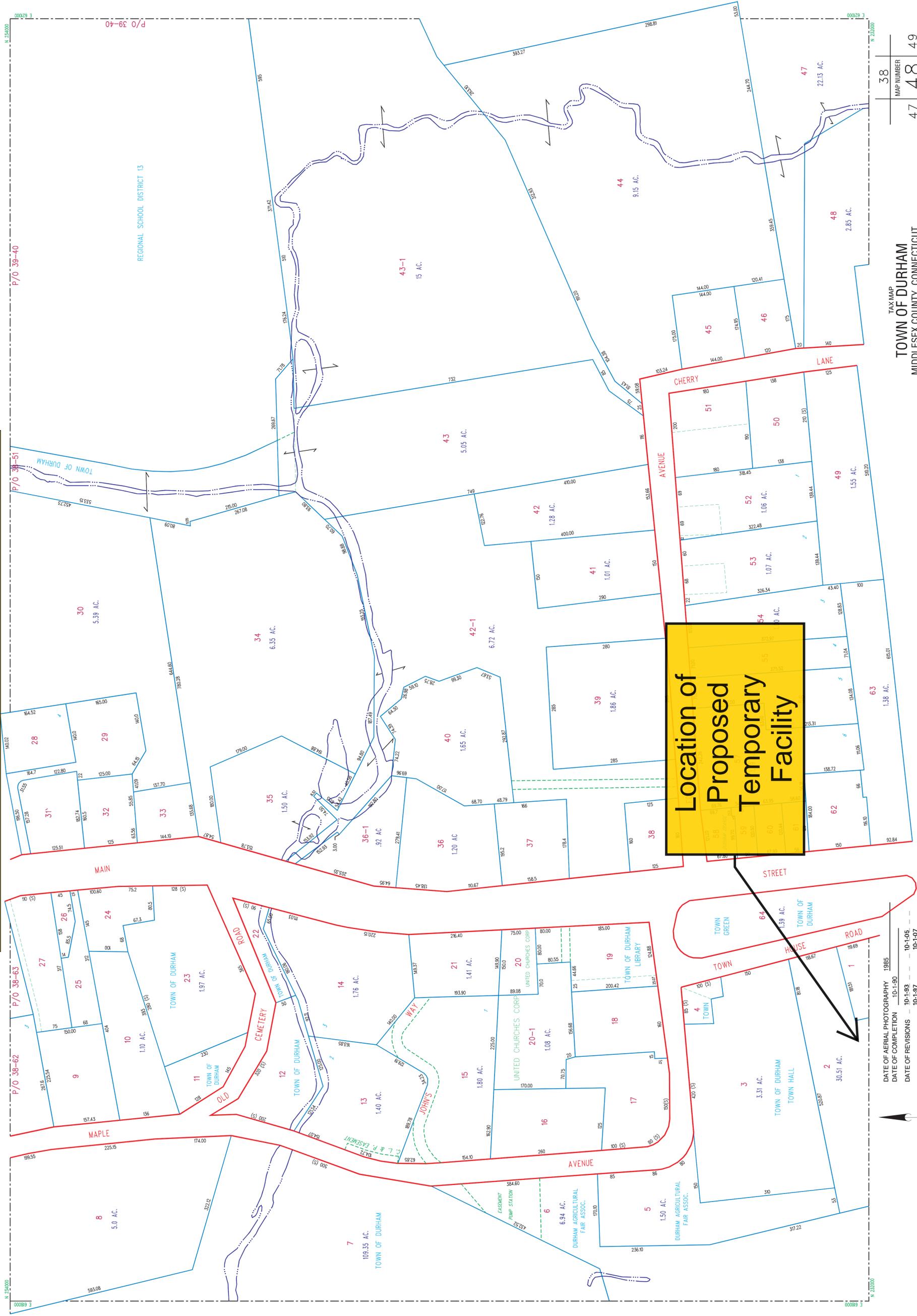
Sales History

Book/Page	Date	Price	Type	Validity
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Out Building Information

Structure Code	Width	Lgth/SqFt	Year	RCNLD
Utility Frame	6	12	1990	\$490
Utility Frame	10	12	1930	\$820
Utility Frame	12	13	1930	\$1,060
Utility Frame	10	12	2002	\$990

# Town of Durham Assessor's Map



**Location of Proposed Temporary Facility**

38	MAP NUMBER
47	48
	49
	58

TAX MAP  
**TOWN OF DURHAM**  
 MIDDLESEX COUNTY, CONNECTICUT  
 PREPARED BY  
 JAMES W. SEWALL COMPANY, OLD TOWN, MAINE  
 SCALE: 1 INCH = 100 FEET

DATE OF AERIAL PHOTOGRAPHY	1985
DATE OF COMPLETION	10-1-90
DATE OF REVISIONS	10-1-93
	10-1-97
	10-1-98
	10-1-99
	10-1-02



**LEGEND**  
 PARCEL NUMBERS ..... 2  
 MATCHLINE .....

For Assessment Purposes  
 Not To Be Used For Conveyances

# Durham Fair 2016 Proposed AT&T Supercolt

Approximate Colt location to be fine tuned with Daniel on day of deployment.

## Legend



- 43' Cable yellow jacket for power and fiber
- Supercolt outline



Google earth

© 2016 Google

100 ft



## Frank Kelley

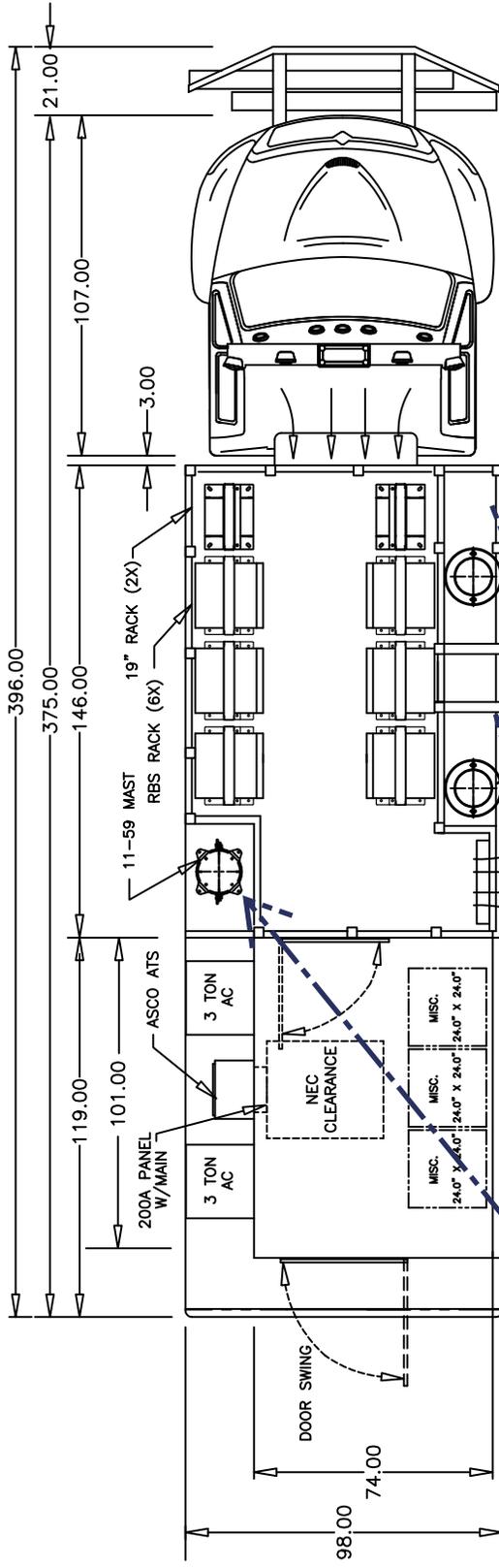
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**From:** Daniel Miramant <dmiramant@aol.com>  
**Sent:** Friday, July 22, 2016 5:31 AM  
**To:** Frank Kelley  
**Subject:** Permit Authorization

This email authorizes AT&T Wireless and/or its authorized agent to file for all necessary federal, state or local permits and approvals for the proposed temporary wireless telecommunication facility at the Durham Fair for the Durham Fair Cell Service. Any costs shall be borne by AT&T.

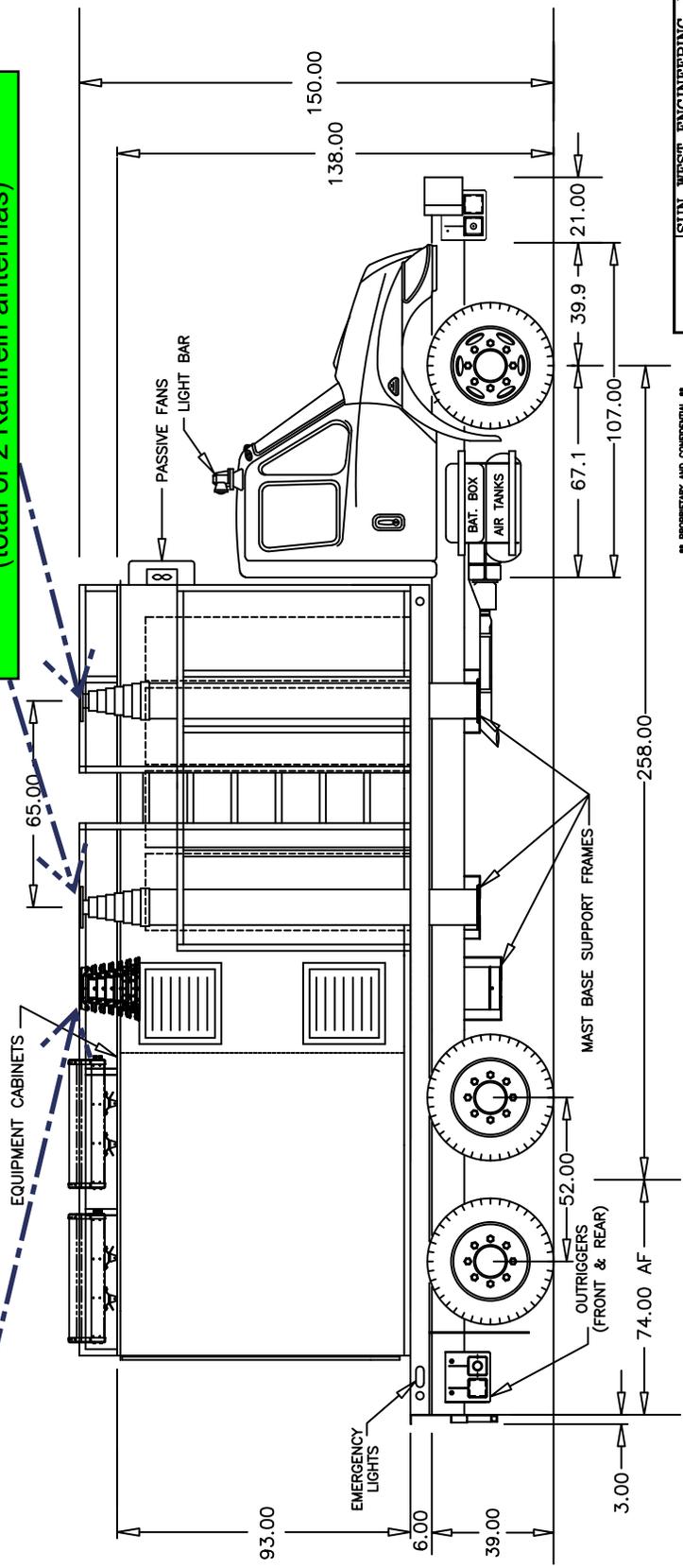
Daniel Miramant  
President  
Durham Agricultural Fair Association  
860-559-2421

Durham Agricultural Fair Association  
Authorization for AT&T to Use the Property



One 59 ft Mast - 1 CCI Antenna

Two 38 ft Masts - 1 Kathrein Antenna Each (total of 2 Kathrein antennas)



COLT Specifications

ALL PROPRIETARY AND CONFIDENTIAL AS SHOWN ON THIS DRAWING ARE THE PROPERTY OF SUN WEST ENGINEERING, INC. THIS DRAWING IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT PERMISSION FROM SUN WEST ENGINEERING, INC. INFORMATION HEREIN IS THE SOLE AND EXCLUSIVE PROPERTY OF SUN WEST ENGINEERING, INC. AND IS NOT TO BE DISCLOSED OR USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF SUN WEST ENGINEERING, INC. ANY DUPLICATION, DISCLOSURE, OR USE OF ANY PORTION OF THIS DOCUMENT REQUIRES THE PRIOR WRITTEN PERMISSION OF SUN WEST ENGINEERING, INC. VIOLATIONS OF THESE TERMS SHALL BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

<b>SUN WEST ENGINEERING, INC.</b>	
5800 E. BROADWAY, FREDERICK, CO. 80040 (800) 877-5065	
TITLE: INTERNATIONAL (MODEL 4300) TRUCK "COW W/ EQUIPMENT CABINET"	
PLOT SCALE: 3000:1	SHEET: 1 of 1
DRAWN BY: JZZ/JM	DATE DRAWN: 3-3-16
REVISED: 3-18-16	DWG. No. SW-5343R3



Example of an AT&T COLT  
(Masts in Stowed Position)



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Real Estate Consultant

July 25, 2016

Honorable Laura L. Francis  
1<sup>st</sup> 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 2016 Durham Agricultural Fair, Durham, CT**

Dear Ms. Francis:

Centek Engineering, Inc. is pleased to submit the enclosed Notice on behalf of New Cingular Wireless PCS, LLC ("AT&T").

AT&T intends to install a temporary cellular communications facility for service during the upcoming 2016 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 enclosed Notice 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 at 860-830-0380 or Ms. Melanie Bachman, Acting Executive Director, Connecticut Siting Council at (860) 827-2935.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Levine".

Steven Levine  
Real Estate Consultant

Enclosure



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July 25, 2016

Daniel Miramant, President  
Durham Agricultural Fair Association  
PO Box 225  
Durham, Connecticut 06422

**Re: Proposed New Cingular Wireless PCS, LLC Temporary Cellular Communications Site  
at the 2016 Durham Agricultural Fair, Durham, CT**

Dear Mr. Miramant:

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