



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

June 19, 2017

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 2017 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 2017 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 and Town Planner 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.

The Durham Agricultural Fair will be held at the Durham Fairgrounds off CT Route 17 on September 21 - 24, 2017.

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 15. The site is scheduled to begin on-air operations on September 7 to be available during set-up of the Fair. Removal will be on or before October 7.

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 59 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 two Kathrein antennas (total of 4) at a centerline height of 39 feet above ground. A CCI panel antenna will be mounted to the taller mast at a centerline height of 59 feet, and a Kathrein antenna will be mounted at 49 feet. Due to a larger number of active transmit channels, 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.

Transmissions	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 LTE	59	700	4	500	0.2559	0.4667	5.48
AT&T LTE	59	1900	8	500	0.5118	1.0000	5.12
AT&T UMS	49	880	1	500	0.0972	0.5867	1.66
Total							12.26%

[†] 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 12.3 % 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 2017 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,



Steven Levine
Real Estate Consultant

cc: Town CEO: Honorable Laura L. Francis, 1st Selectman, Town of Durham
Town Planner: Geoffrey L. Colegrove
Property Owner of Record: Durham Agricultural Fair Association (Daniel Miramant)

Attachments

Email from the Durham Agricultural Fair Association
Authorizing AT&T's Proposed Temporary Telecommunications Facility
During the 2017 Durham Fair

From: Daniel [mailto:dmiramant@aol.com]
Sent: Friday, June 16, 2017 3:26 PM
To: Frank Kelley
Subject: Re: Durham Fair

I approve this message

On Jun 15, 2017, at 7:02 PM, Frank Kelley <Frank.Kelley@SAI-Comm.com> wrote:

Dan, I had the wrong address, Can you send me another email authorizing AT&T to apply for permits for the Durham Fair. Just need the language below in the email.

“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 telecommunications facility located at The Durham Fairgrounds 24 Townhouse Road, Durham, CT ”

Daniel Miramant
President
Durham Agricultural Fair Association

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

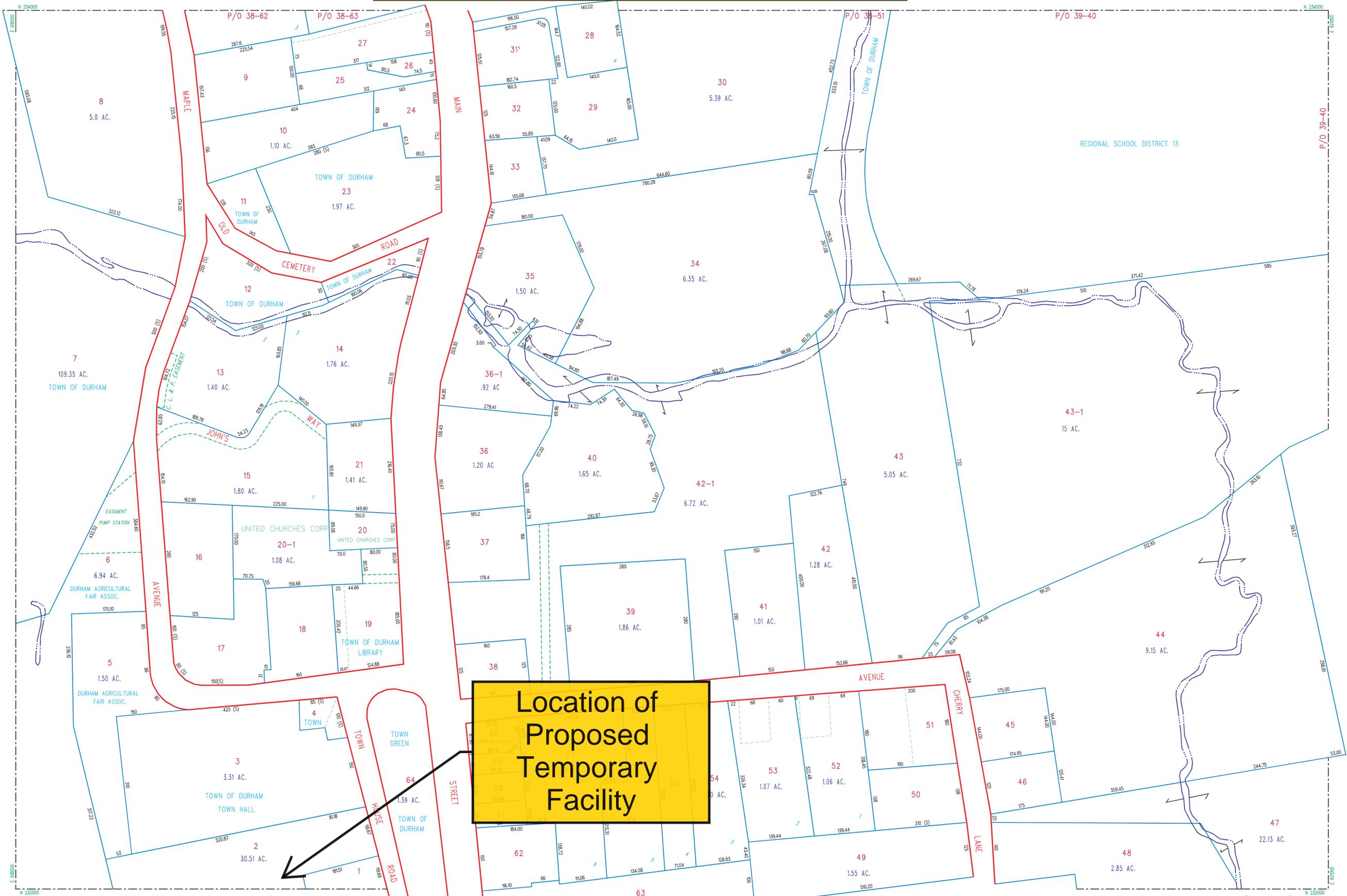
Sales History

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**

LEGEND
 PARCEL NUMBERS 2
 MATCH LINE



DATE OF AERIAL PHOTOGRAPHY	1985
DATE OF COMPLETION	10-1-90
DATE OF REVISIONS	10-1-93 - 10-1-05
	10-1-97 - 10-1-07
	10-1-98
	10-1-99
	10-1-02

For Assessment Purposes
 Not To Be Used For Conveyances

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

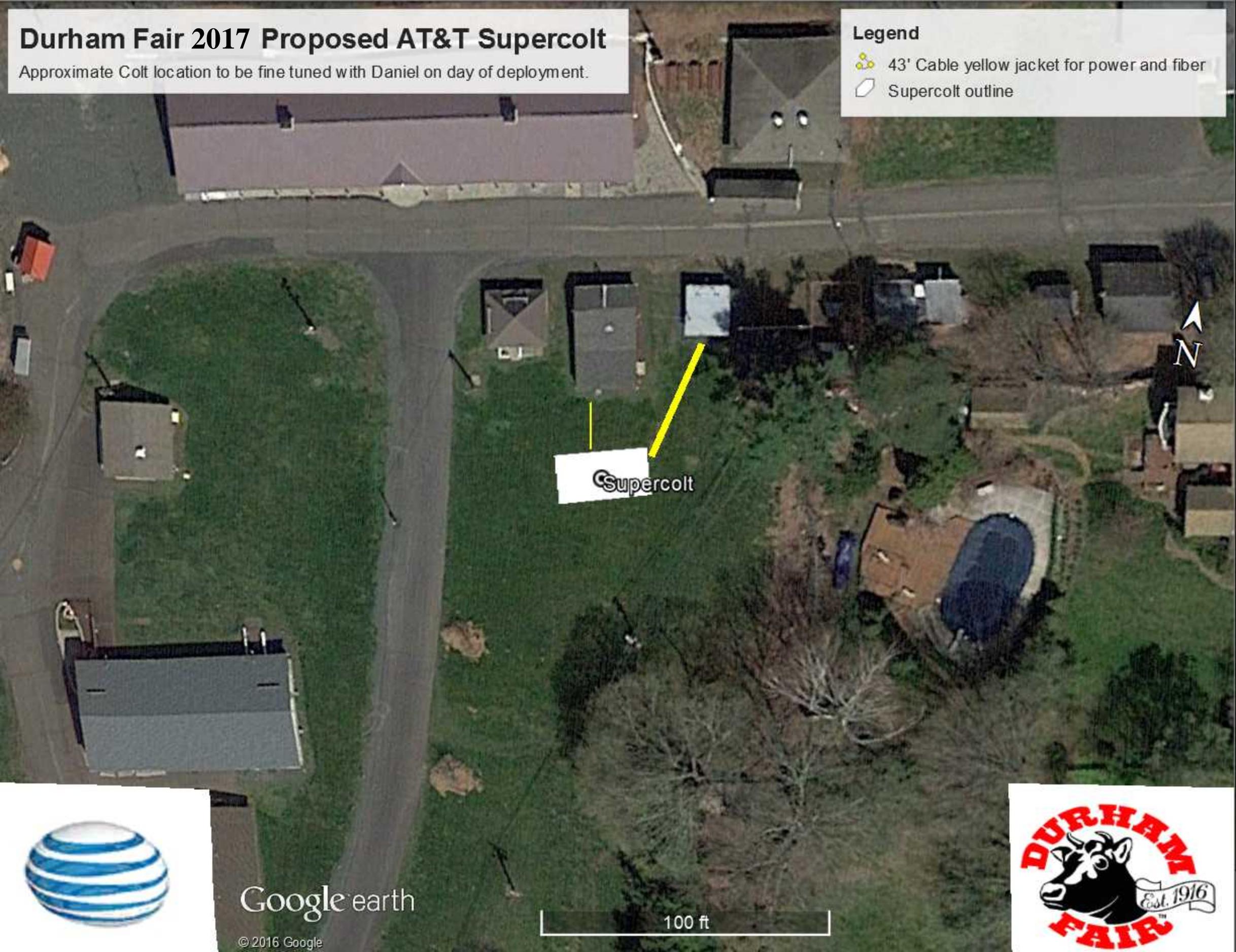
	38	
	MAP NUMBER	
47	48	49
	58	

Durham Fair 2017 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



Supercolt



Google earth

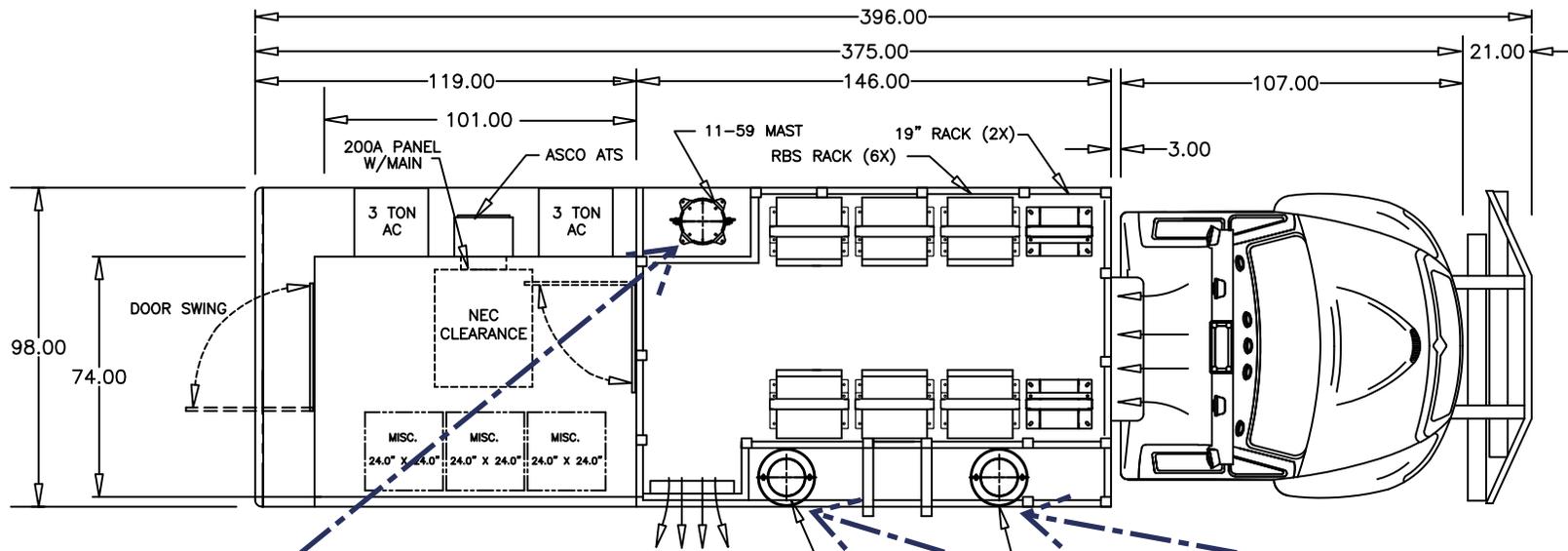
© 2016 Google

100 ft



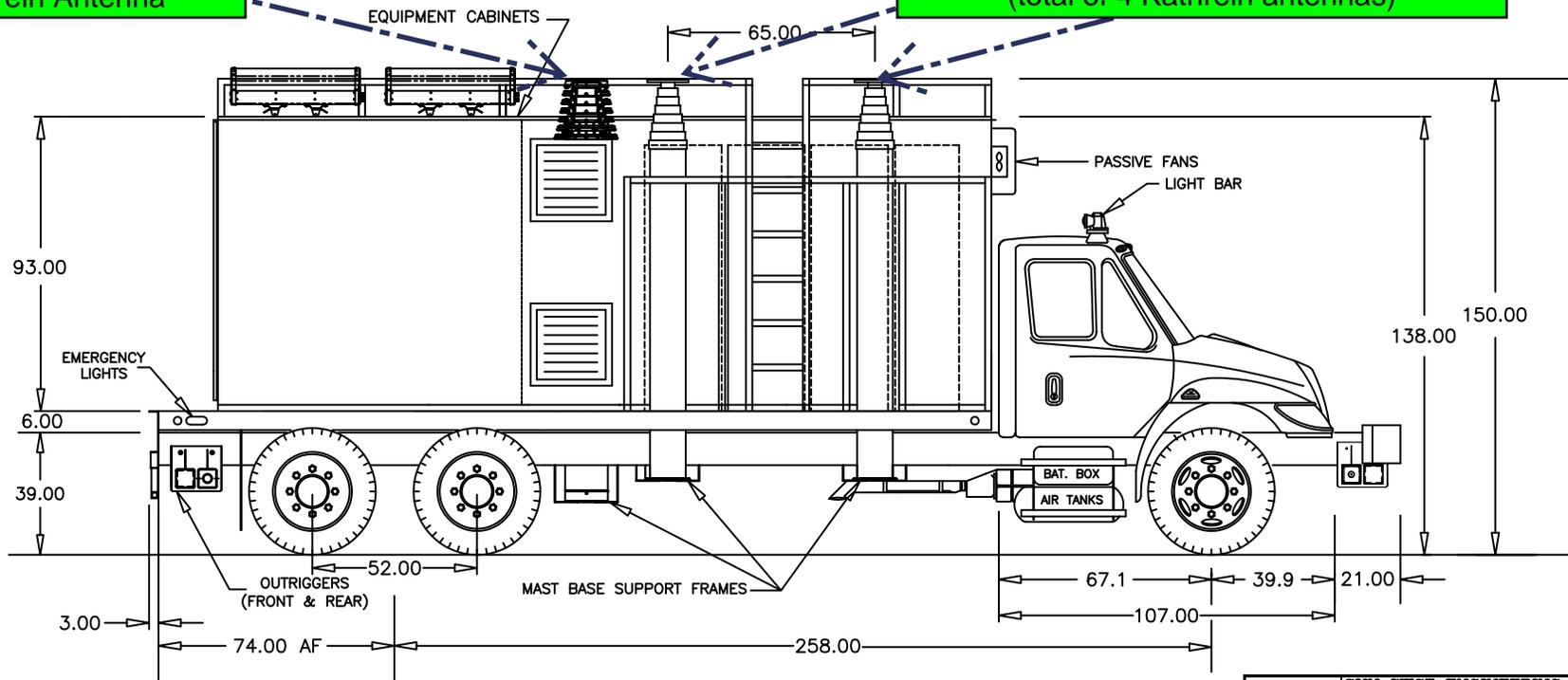


Example of an AT&T COLT
(Masts in Stowed Position)



One 59 ft Mast - 1 CCI Antenna & 1 Kathrein Antenna

Two 38 ft Masts - 2 Kathrein Antennas Each (total of 4 Kathrein antennas)



COLT Specifications

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SUN WEST ENGINEERING, INC. 3802 E BROADWAY, FARGO, ND 58040 (802) 270-0882	
TITLE: INTERNATIONAL (MODEL 4300) TRUCK "COW W/ EQUIPMENT CABINET	
PLOT SCALE: :XXXX=1	SHEET: 1 of 1
DRAWN BY: <i>FCM</i>	DATE DRAWN: 3-3-16
REVISED: 3-18-16	DWG. No. SW-5343R3

Text of Notice Email Sent to Town Officials and Property Owner

Notice of AT&T Temporary Cell Site at the 2017 Durham Agricultural Fair, Durham, CT

AT&T intends to install a temporary cellular communications facility for service during the upcoming 2017 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 email as notification to the Town of Durham and the Durham Agricultural Fair Association under R.C.S.A. Section 16-50j-73 of construction which constitutes an exempt modification pursuant to Section 16-50j-72(d).

The attached 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.

Thank you.

-- Steve Levine, for AT&T