



**QC Development**  
PO Box 916  
Storrs, CT 06268  
860-670-9068  
Mark.Roberts@QCDevelopment.net

July 12, 2018

Melanie A. Bachman  
Executive Director  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

**Notice of Exempt Modification – New Cingular Wireless PCS, LLC (AT&T)  
Durham Fairgrounds, Durham, CT  
N 41-28-12.5  
W 72-40-54**

Dear Ms. Bachman:

AT&T intends to install a temporary cellular communications facility for service during the 2018 Durham Agricultural Fair. Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies § 16-50j-73, of construction that constitutes an exempt modification under R.C.S.A. § 16-50j-72(d). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to The Honorable Laura L. Francis, First Selectman of the Town of Durham, as elected official to the Durham Town Planner and to the Durham Agricultural Fair Association, which owns the 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. The proposed temporary facility would be installed on property owned by the Durham Agricultural Fair Association.

**Proposed Temporary Facility**

The proposed temporary cell site meets the criteria set forth in R.C.S.A § 16-50j-72(d) for temporary cellular service for events of statewide significance. The 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 27th – 30th, 2018.

The temporary cell site will be located off Town House Road in Durham on property owned by the Durham Agricultural Fair Association. An e-mail from the President of the Agricultural Fair Association authorizing AT&T’s use of the property for this purpose is attached. Electric power will be provided by the Agricultural Fair Association.

AT&T’s equipment will be deployed to the Fairgrounds on or around August 15th. The site will begin on-air operations on or around September 7<sup>h</sup> and be removed on or around October 15<sup>th</sup>.

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). The COLT is 33 feet long, 8 feet wide and 12 ½ feet high. The COLT carries three integrated pneumatic masts, two of which can be extended to a height of 38 ft above ground level, while the third can be extended to a height of 59 ft above ground level. Guy lines will stabilize and support the antenna masts when extended. The proposed temporary cell site will not increase noise levels 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 level. 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 represent the “worst case” sector in terms of RF emission (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 calculations with 10dB reduction at the temporary COLT site.

<b>Transmissions</b>	<b># of Channels</b>	<b>ERP/Ch (W)</b>	<b>Antenna Centerline Height (ft)</b>	<b>Power Density (mW/cm<sup>2</sup>)</b>	<b>Freq. Band (MHz<sup>**</sup>)</b>	<b>Limit S (mW/cm<sup>2</sup>)</b>	<b>%MPE</b>
AT&T LTE	4	500	59	0.2559	700	0.4667	5.48%
AT&T LTE	8	500	59	0.5118	1900	1.0000	5.12%
AT&T UMTS	1	500	49	0.0972	880	0.5867	1.66%
<b>Site Total</b>							<b>12.26%</b>

\*\* 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 power density calculation shows that AT&T’s temporary transmissions for the COLT installation will result in a power density corresponding to approximately 12.3% of the ANSI/IEEE

standard for uncontrolled environments. Therefore, total worst-case power density levels adjacent to the COLT would be within applicable standard limits.

**Conclusion**

For the foregoing reasons, AT&T respectfully requests that the Council acknowledge AT&T's Notice of Exempt Modification for the temporary cell site to be operated during the 2018 Durham Agricultural Fair pursuant to R.C.S.A. § 16-50j-72(d).

Please feel free to call me at (860) 670-9068 with any questions regarding this Notice. Thank you for your consideration in this matter.

Sincerely,

A handwritten signature in blue ink, consisting of several loops and a long horizontal stroke extending to the right.

Mark Roberts  
QC Development  
Consultant for AT&T

Attachments

cc: The Honorable Laura L. Francis – Elected Official  
Geoffrey L. Colegrove – Durham Town Planner  
Durham Agricultural Fair Association – Property Owner

**From:** Daniel Miramant [<mailto:dmiramant@aol.com>]  
**Sent:** Monday, July 02, 2018 4:09 PM  
**To:** Frank Kelley  
**Subject:** Re: CT2301 - DURHAM FAIR COW - OWNER LOA

**“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  
860-559-2421**

## 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

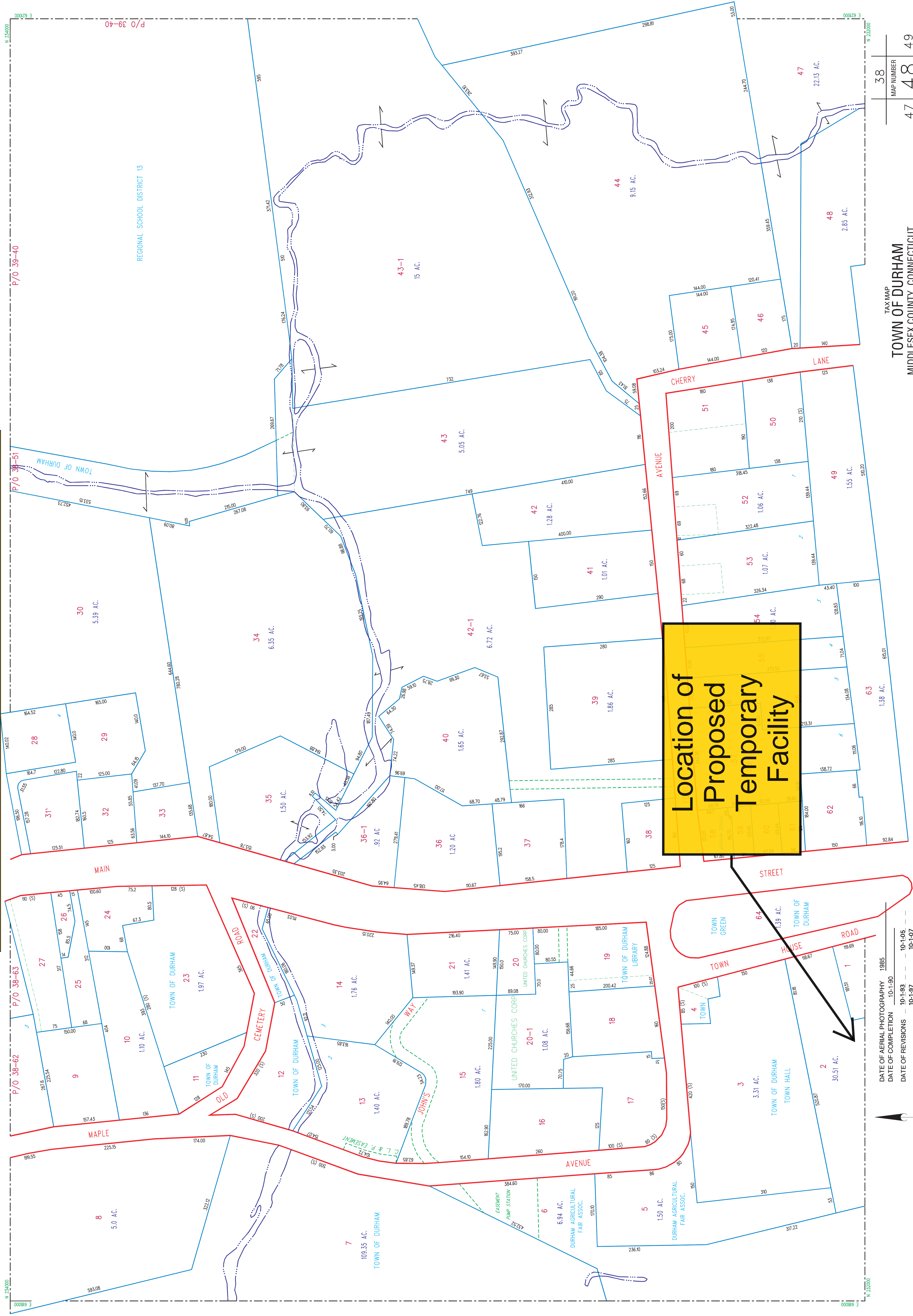
Sales History

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



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

**Location of  
 Proposed  
 Temporary  
 Facility**

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 2017 Proposed AT&T Supercolt

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

## Legend



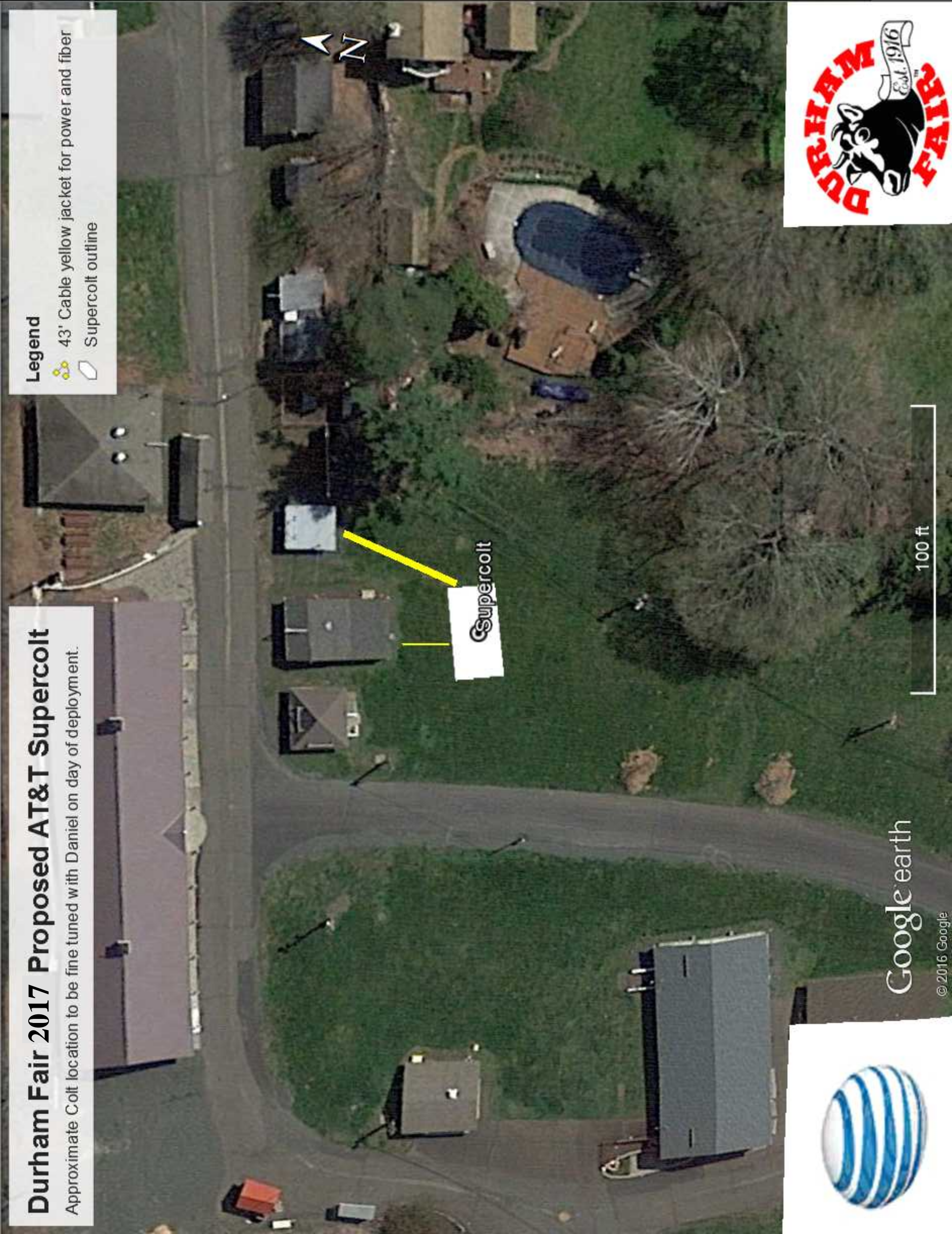
- 43' Cable yellow jacket for power and fiber
- Supercolt outline



Google earth

© 2016 Google

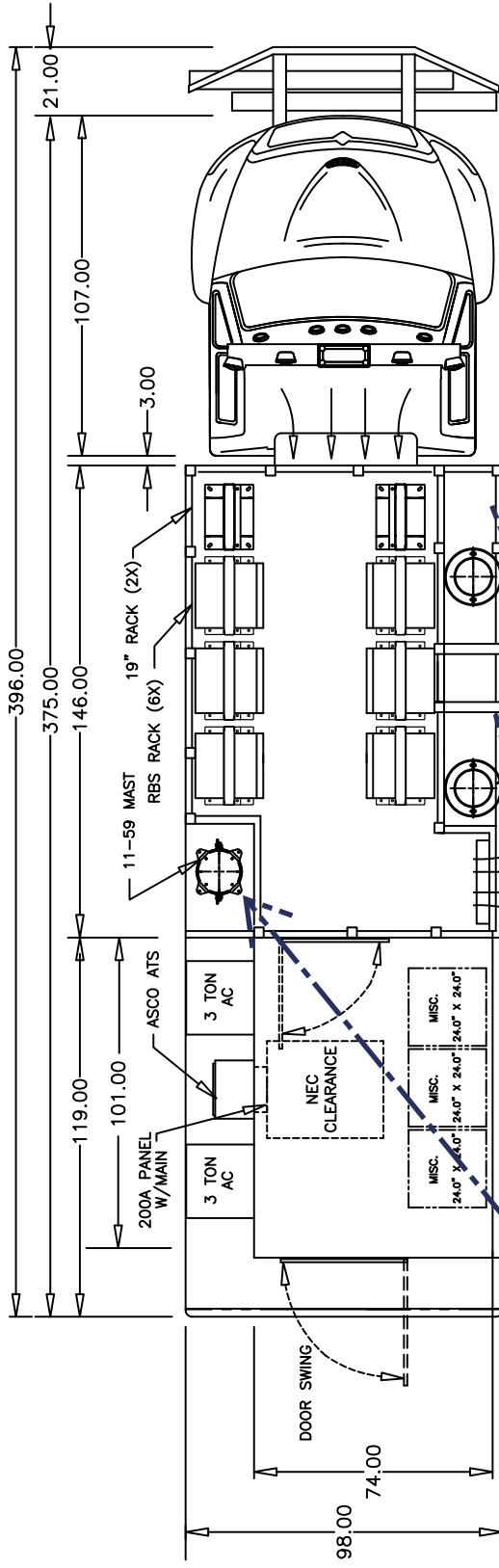
100 ft





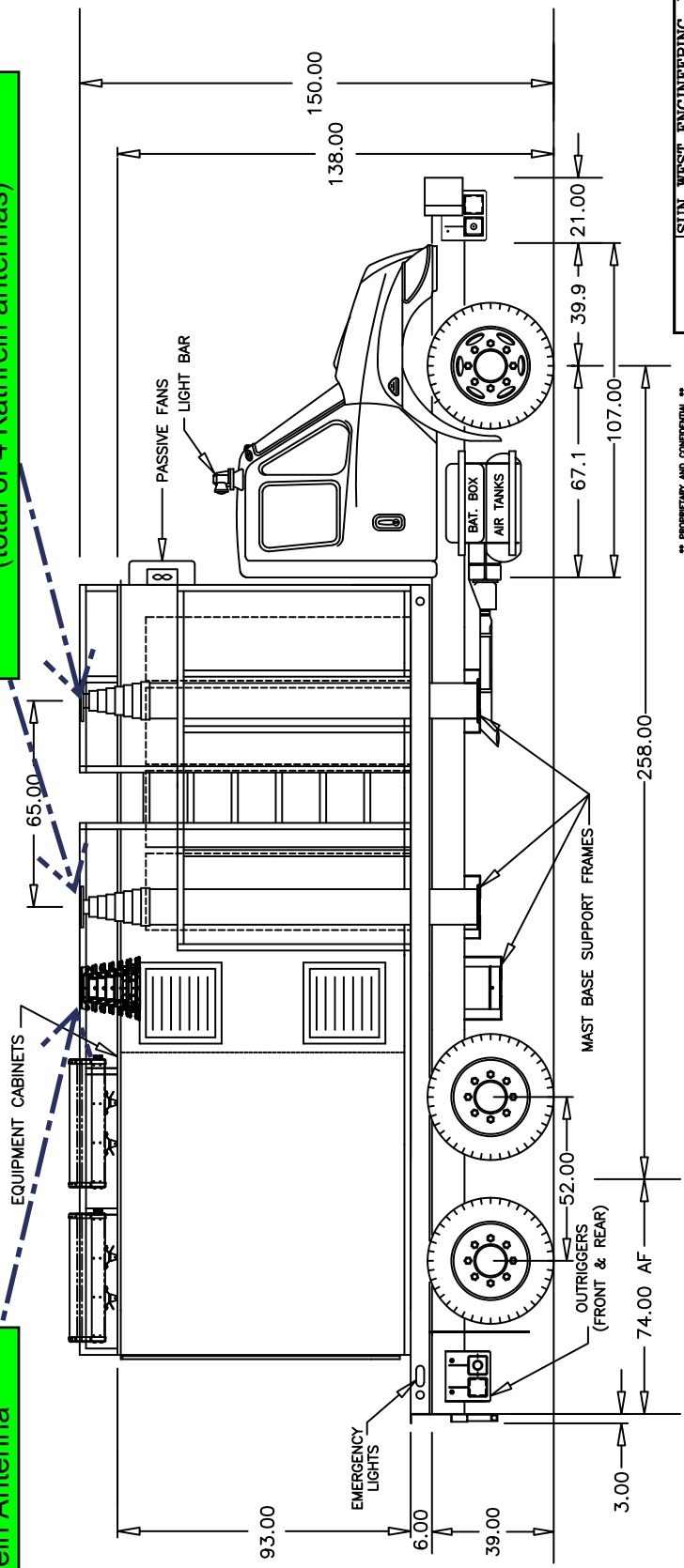
Example of an AT&T COLT  
(Masts in Stowed Position)





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


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



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<b>SUN WEST ENGINEERING, INC.</b> 500 E. BROADWAY, FREDERICK, MD 20640 (410) 871-5005	
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

COLT Specifications




**UNITED STATES  
POSTAL SERVICE®**

**Click-N-Ship®**

**P**

usps.com  
**US POSTAGE** 9405 8036 9930 0663 9792 31 0067 0000 0030 6422  
 Flat Rate Env  
 07/12/2018



Mailed from 05602 062S0000001301

**PRIORITY MAIL 2-DAY™**

Expected Delivery Date: 07/14/18

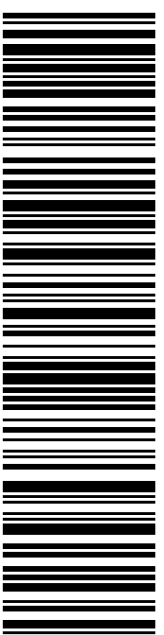
MARK J ROBERTS  
 QC DEVELOPMENT  
 PO BOX 916  
 STORRS CT 06268-0916

**0006**

**R003**

SHIP TO: LAURA L FRANCIS  
 TOWN OF DURHAM  
 30 TOWN HOUSE RD  
 DURHAM CT 06422-2118

**USPS TRACKING #**



**9405 8036 9930 0663 9792 31**

Electronic Rate Approved #038555749



Cut on dotted line.

### Instructions

1. Each Click-N-Ship® label is unique. Labels are to be used as printed and used only once. DO NOT PHOTO COPY OR ALTER LABEL.
2. Place your label so it does not wrap around the edge of the package.
3. Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, DO NOT TAPE OVER BARCODE. Be sure all edges are secure.
4. To mail your package with PC Postage®, you may schedule a Package Pickup online, hand to your letter carrier, take to a Post Office™, or drop in a USPS collection box.
5. Mail your package on the "Ship Date" you selected when creating this label.

### Click-N-Ship® Label Record

**USPS TRACKING # / Insurance Number:  
9405 8036 9930 0663 9792 31**

Trans. #:	439292634	Priority Mail® Postage:	<b>\$6.70</b>
Print Date:	07/12/2018	Insurance Fee	<b>\$0.00</b>
Ship Date:	07/12/2018	Total	<b>\$6.70</b>
Expected Delivery Date:	07/14/2018		
Insured Value:	\$50.00		


**From:** MARK J ROBERTS  
 QC DEVELOPMENT  
 PO BOX 916  
 STORRS CT 06268-0916

**To:** LAURA L FRANCIS  
 TOWN OF DURHAM  
 30 TOWN HOUSE RD  
 DURHAM CT 06422-2118

\* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.



Thank you for shipping with the United States Postal Service!  
 Check the status of your shipment on the USPS Tracking® page at usps.com




**UNITED STATES  
POSTAL SERVICE®**

**Click-N-Ship®**

**P**

usps.com 9405 8036 9930 0663 9792 48 0067 0000 0030 6422  
**US POSTAGE**  
 Flat Rate Envoy



07/12/2018 Mailed from 05602 062S00000001301

**PRIORITY MAIL 2-DAY™**

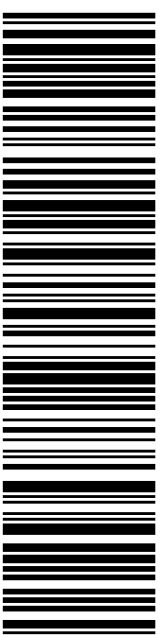
Expected Delivery Date: 07/14/18

MARK J ROBERTS  
 QC DEVELOPMENT  
 PO BOX 916  
 STORRS CT 06268-0916

**0006**

SHIP TO: DANIEL MIRAMANT  
 DURHAM AGRICULTURAL FAIR ASSOCIATION  
 24 TOWN HOUSE RD  
 PO BOX 225  
 DURHAM CT 06422-2118

**USPS TRACKING #**



**9405 8036 9930 0663 9792 48**

Electronic Rate Approved #038555749



Cut on dotted line.

### Instructions

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### Click-N-Ship® Label Record

**USPS TRACKING # / Insurance Number:  
 9405 8036 9930 0663 9792 48**

Trans. #:	439292634	Priority Mail® Postage:	<b>\$6.70</b>
Print Date:	07/12/2018	Insurance Fee	<b>\$0.00</b>
Ship Date:	07/12/2018	Total	<b>\$6.70</b>
Expected Delivery Date:	07/14/2018		
Insured Value:	\$50.00		

**From:** MARK J ROBERTS  
 QC DEVELOPMENT  
 PO BOX 916  
 STORRS CT 06268-0916

**To:** DANIEL MIRAMANT  
 DURHAM AGRICULTURAL FAIR ASSOCIATION  
 24 TOWN HOUSE RD  
 PO BOX 225  
 DURHAM CT 06422-2118

\* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.



Thank you for shipping with the United States Postal Service!  
 Check the status of your shipment on the USPS Tracking® page at usps.com