

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE:

A PETITION OF CELLCO PARTNERSHIP
D/B/A VERIZON WIRELESS FOR A
DECLARATORY RULING ON THE NEED
TO OBTAIN A SITING COUNCIL
CERTIFICATE FOR THE INSTALLATION
OF A WIRELESS TELECOMMUNICATIONS
FACILITY AT 24 TOWNHOUSE ROAD,
DURHAM, CONNECTICUT

PETITION NO. _____

MARCH 2, 2022

PETITION FOR A DECLARATORY RULING:
INSTALLATION HAVING NO
SUBSTANTIAL ADVERSE ENVIRONMENTAL EFFECT

I. Introduction

Pursuant to Sections 16-50j-38 and 16-50j-39 of the Regulations of Connecticut State Agencies (“R.C.S.A.”), Cellco Partnership d/b/a Verizon Wireless (“Cellco”) hereby petitions the Connecticut Siting Council (the “Council”) for a declaratory ruling (“Petition”) that no Certificate of Environmental Compatibility and Public Need (“Certificate”) is required under Section 16-50k(a) of the Connecticut General Statutes (“C.G.S.”) for the installation of a new wireless facility located on the Durham Fairgrounds at 24 Townhouse Road in Durham, Connecticut (the “Property”). The Property is owned by Durham Agricultural Fair Association (the “Owner”).

II. Factual Background

Cellco currently maintains four (4) macro cell sites and two (2) small cell facilities in the Town of Durham including an existing facility at the Property approved by the Council in October of 2014 (Petition No. 1117). These existing Durham facilities as well as existing facilities in Wallingford and Middletown provide reliable wireless service in significant portions

of Durham. Reliable service in and around the Durham Fairgrounds, however, remains challenging, particularly during the annual Durham Fair and other events at the fairgrounds that attract large crowds. During these events, Cellco experiences problems with reliable wireless service as these events place significant stresses on network capacity. To address these issues in the past, Cellco has installed temporary cell sites (Cell on Wheels or COWs) on the Property when the need arises. As the need for these temporary cell sites grows around the State however, Cellco seeks to establish a more permanent solution for the wireless service problems at the Durham Fairgrounds and in the surrounding area. Cellco, therefore, seeks Council approval to install a second permanent wireless facility at the Property. The new facility will provide significant capacity relief and added coverage benefits at the Property and in the immediate area around the Property. See Attachment 1 – Site Vicinity and Site Schematic Maps (Aerial Photograph).

III. Proposed Facility

The proposed facility will consist of nine (9) antennas on a new 38.5-foot wood pole located in the southerly portion of the Property. Cellco will install three (3) Model MT-6407 antennas at the 37-foot level; three (3) Model CBRS Integrated antennas at the 34- foot level; and three (3) Model XGU MB-134 antennas at the 30- foot level. Cellco will also install six (6) Remote Radio Heads (RRHs) behind its antennas. Equipment associated with the antennas will be located on the ground adjacent to the wood pole. The pole and equipment will be surrounded by a chain link security fence and gate. A set of Project Plans showing the proposed improvements is included in Attachment 2. Specifications for Cellco's antennas and RRHs are included on Plan Sheet C-3. The proposed facility will capable of providing 5G wireless services.

III. The Proposed Facility Will Not Have A Substantial Adverse Environmental Effect

The Public Utility Environmental Standards Act (the “Act”), C.G.S. § 16-50g et seq., provides for the orderly and environmentally compatible development of telecommunications facilities in the state to avoid “a significant impact on the environment and ecology of the State of Connecticut.” C.G.S. § 16-50g. To achieve these goals, the Act established the Council, and requires a Certificate of Environmental Compatibility and Public Need for the construction of cellular telecommunication towers “that may, as determined by the council, have a substantial adverse environmental effect”. C.G.S. § 16-50k(a).

1. Physical Environmental Effects

Cellco respectfully submits that the installation of a new facility as described herein will not involve a significant alteration in the physical and environmental characteristics of the Property. All improvements will occur on existing cleared land within the Property. No trees will be removed, and no significant grading is required to complete the installation.

2. Visual Effects

Visual effects of the proposed wireless facility will be limited primarily to those areas within the Property itself. Views of the facility from surrounding properties, particularly those residential properties to the east, will be limited and sporadic due to topography and vegetation in the area. A Photo Documentation & Simulations report (“Visual Assessment”) is included in Attachment 3.

3. FCC Compliance

Radio frequency (“RF”) emissions from the proposed facility will not exceed the maximum permissible exposure limits established by the Federal Communications Commission (“FCC”). Included in Attachment 4 is a worst-case general power density calculation that demonstrates that proposed facility will operate within the FCC safety limits.

4. FAA Notification Not Required

According to a Federal Airways & Airspace Summary Report prepared for the proposed facility, the new wood pole would not constitute an obstruction or hazard to air navigation. Therefore, notification to the FAA is not required. A copy of the Federal Airways & Airspace Report is included in Attachment 5.

B. Notice to the Town, Property Owner and Abutting Landowners

On March 2, 2022 a copy of this Petition was sent to Durham's First Selectwoman, Laura Francis, Robin Newton, Durham's Town Planner/Zoning Enforcement Officer, and Durham Agricultural Fair Association, the Owner of the Property. Copies of the letters sent to First Selectwoman Francis, Ms. Newton, and Durham Agricultural Fair Association are included in Attachment 6.


A copy of this Petition was also sent to the owners of land that abut the Property. A sample abutter's letter and the list of those abutting landowners to whom notice was sent is included in Attachment 7.

IV. Conclusion

Based on the information provided above, Celco respectfully requests that the Council issue a determination, in the form of a declaratory ruling, that the placement and of antennas, and related equipment, as described above, will not have a substantial adverse environmental effect and does not require the issuance of a Certificate of Environmental Compatibility and Public Need pursuant to § 16-50k of the General Statutes.

Respectfully submitted,

CELLCO PARTNERSHIP d/b/a VERIZON
WIRELESS

By 

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

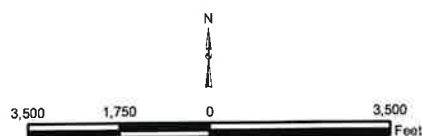
ATTACHMENT 1



Legend

- ✖ Proposed Verizon Wireless Facility
- Surrounding Verizon Wireless Facilities
- Municipal Boundary

Base Map Source: CT ECO 2019 Imagery
Map Scale: 1 inch = 3,500 feet
Map Date: February 2022

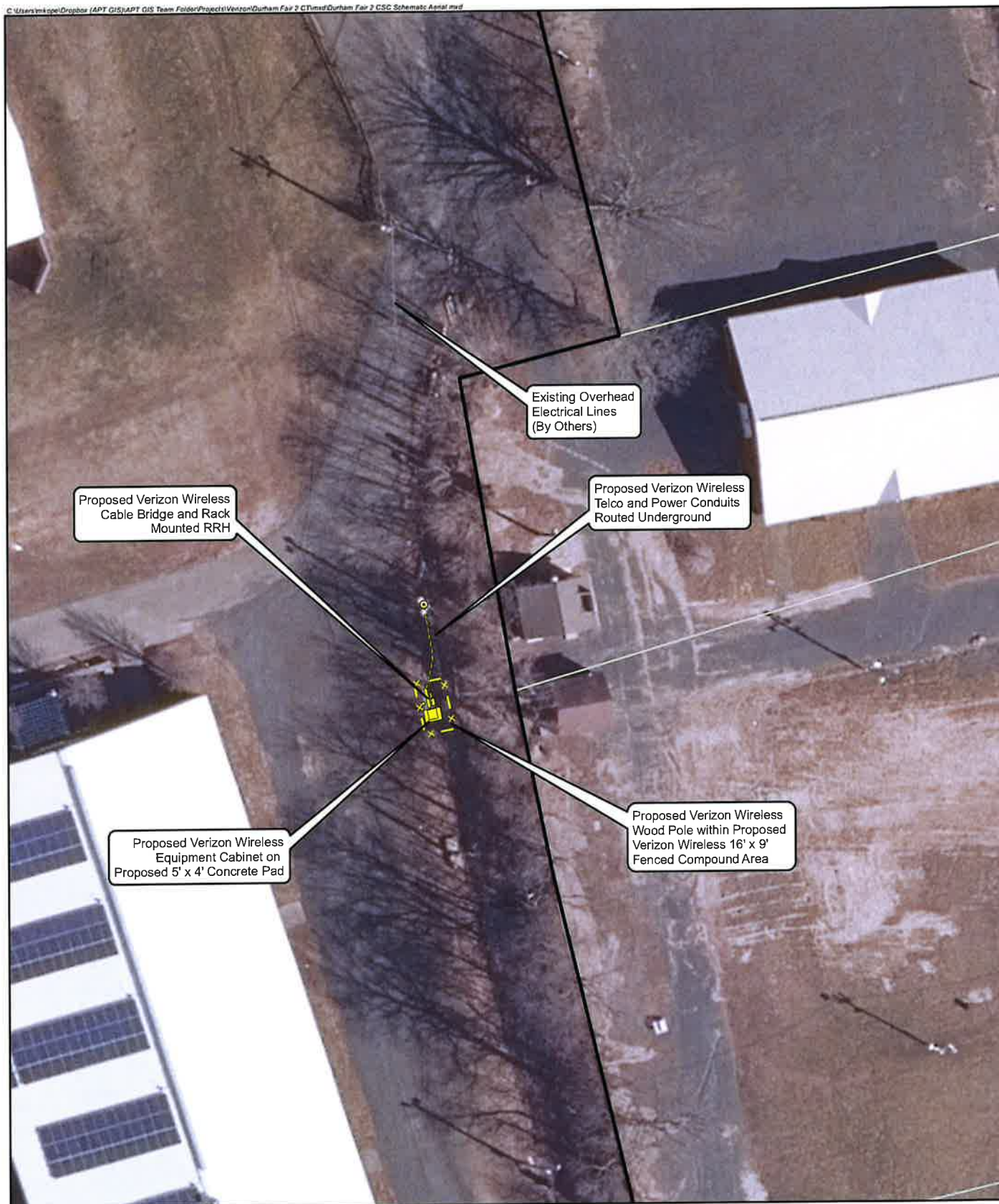


Site Vicinity Map

Proposed Wireless
Telecommunications Facility
Durham Fair 2 CT
Durham Fairgrounds
24 Townhouse Road
Durham, Connecticut

verizon

ALL-POINTS
TECHNOLOGY CORPORATION



Legend

- Proposed Verizon Wireless Compound
- Proposed Verizon Wireless Equipment
- Proposed Verizon Wireless Power and Telco Service
- Existing Utility Pole (By Others)

- Subject Property
- Approximate Parcel Boundary

Site Schematic

Proposed Wireless
Telecommunications Facility
Durham Fair 2 CT
Durham Fairgrounds
24 Townhouse Road
Durham, Connecticut

Map Notes:
Base Map Source: 2019 CT ECO Imagery
Map Scale: 1 inch = 40 feet
Map Date: February 2022



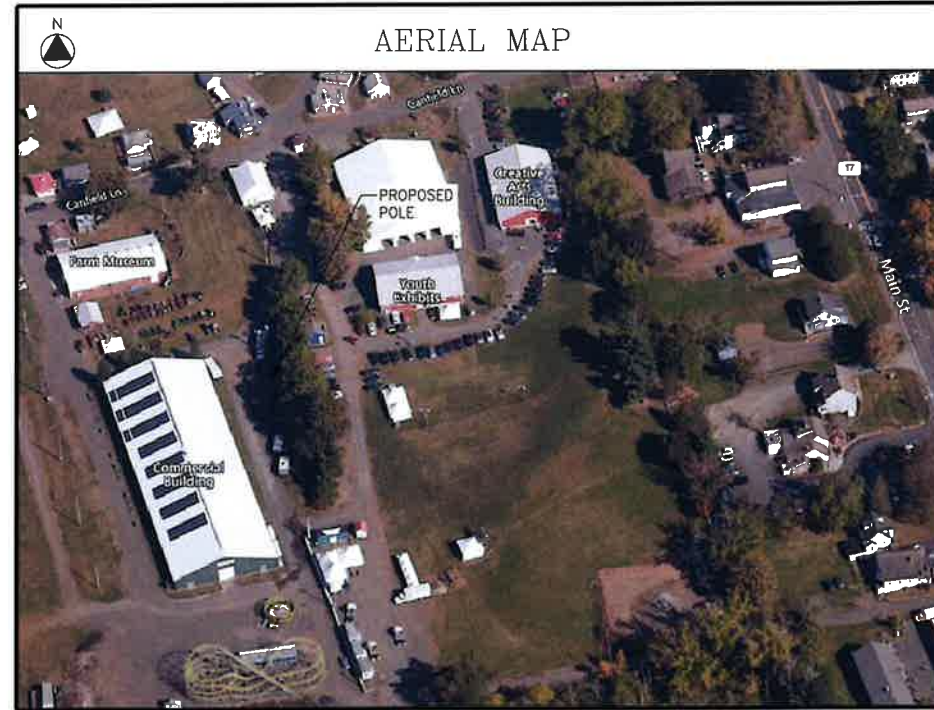
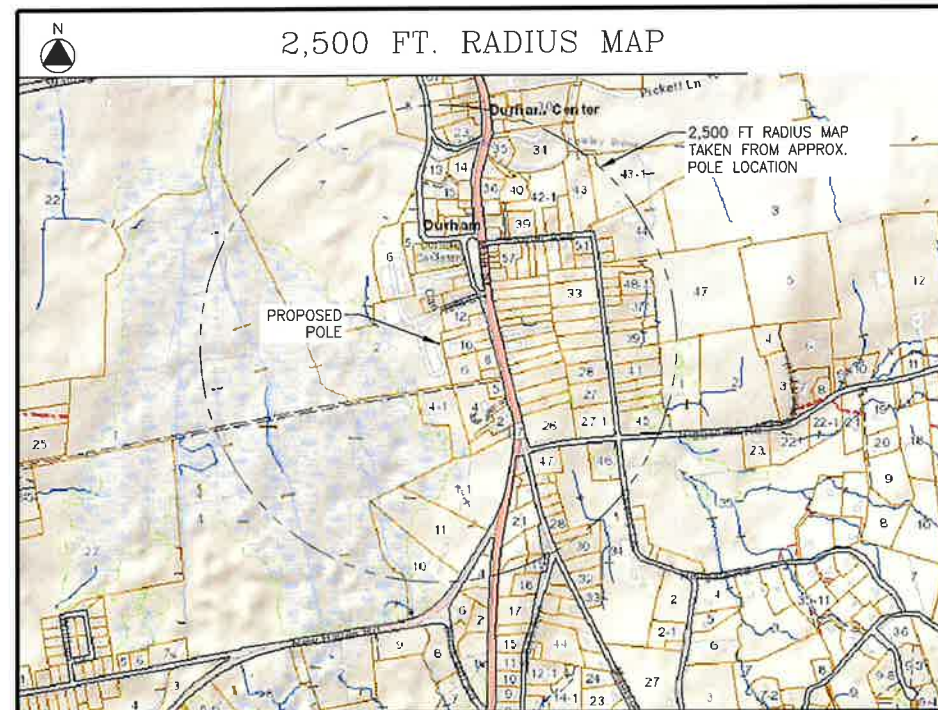
ATTACHMENT 2



WIRELESS COMMUNICATIONS FACILITY

DURHAM FAIR 2 CT

DURHAM FAIRGROUNDS
24 TOWNHOUSE RD.
DURHAM, CT 06422



| PROJECT SUMMARY | |
|-----------------------------------|--|
| SITE NAME: | DURHAM FAIR 2 CT |
| SITE ADDRESS: | 24 TOWNHOUSE RD. DURHAM, CT 06422 |
| PROPERTY OWNER & MAILING ADDRESS: | DURHAM FAIRGROUNDS 24 TOWNHOUSE ROAD DURHAM, CT 06422 |
| COORDINATES/AMSL: | 41° 28' 06.17" N 72° 40' 55.28" W 169.3' AMSL |
| APPLICANT: | CELLCO PARTNERSHIP d.b.a. VERIZON WIRELESS 20 ALEXANDER DR. WALLINGFORD, CT 06492 |
| VERIZON WIRELESS CONTACTS: | MIKE HUMPHREYS - CONSTRUCTION PHIL COTTO - SITE ACQUISITION |
| LEGAL/REGULATORY COUNSEL: | KENNETH C. BALDWIN, ESQ. ROBINSON & COLE, LLP (860) 275-8345 |

| DRAWING SCHEDULE | |
|------------------|-------------------|
| SHEET NO. | SHEET DESCRIPTION |
| T-1 | TITLE SHEET |
| C-1 | SITE LAYOUT |
| C-2 | PLANS & ELEVATION |
| C-3 | DETAILS |
| | |
| | |

| PROJECT DESCRIPTION | |
|---|--|
| - INSTALLATION OF PANEL ANTENNAS ON A NEW WOOD POLE AND EQUIP. LOCATED WITHIN A FENCED COMPOUND AREA AT GRADE | |
| - INSTALLATION OF CABLING FROM EQUIP. CABINETS TO ANTENNAS | |
| - ELECTRICAL & TELEPHONE CONNECTIONS TO EXISTING UTILITY DEMARCATION POINTS | |

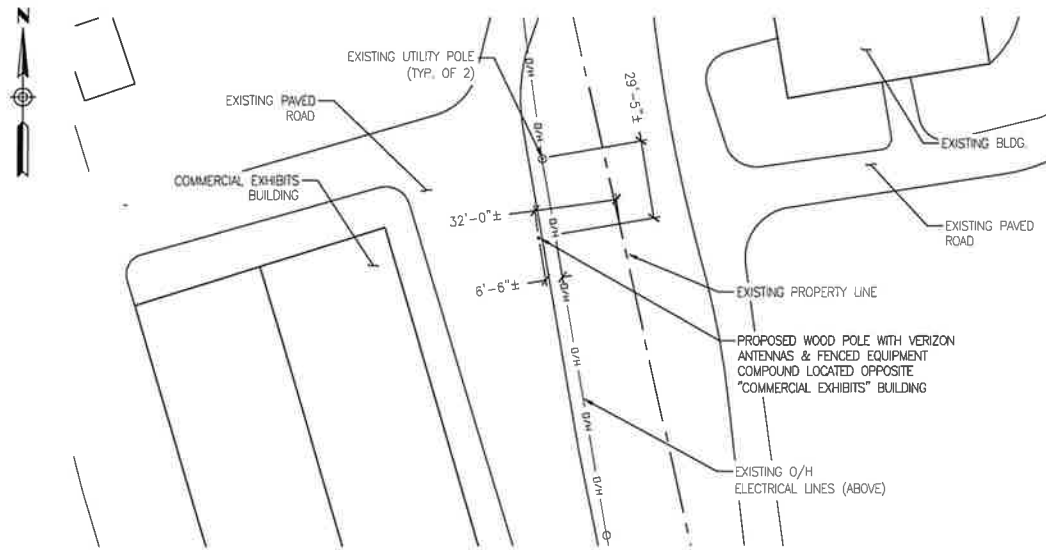
| |
|---|
| Cellco Partnership d/b/a Verizon Wireless verizon WIRELESS COMMUNICATIONS FACILITY 20 ALEXANDER DRIVE WALLINGFORD, CT 06492 |
| On Air Engineering, LLC 88 Foundry Pond Road Cold Spring, NY 10516 onair@optonline.net 201-456-4624 |
| LICENSURE DAVID WEINPAUL, P.E. CT LIC. NO. 22144 |
| NO.: DATE: SUBMISSIONS 0 03.09.21 REVIEW 1 10.15.21 REVISED PER NEW RFDS 2 12.05.21 REVISED PER NEW RFDS 3 02.15.22 CSC FILING SET |
| DRAWN BY: AS CHECKED BY: DW |
| SITE NAME: DURHAM FAIR 2 CT |
| PROJECT DESCRIPTION: NEW BUILD MACRO |
| PROJECT INFORMATION: DURHAM FAIRGROUNDS 24 TOWNHOUSE RD. DURHAM, CT 06422 |
| DRAWING TITLE: TITLE SHEET |
| SHEET NUMBER: T-1 |



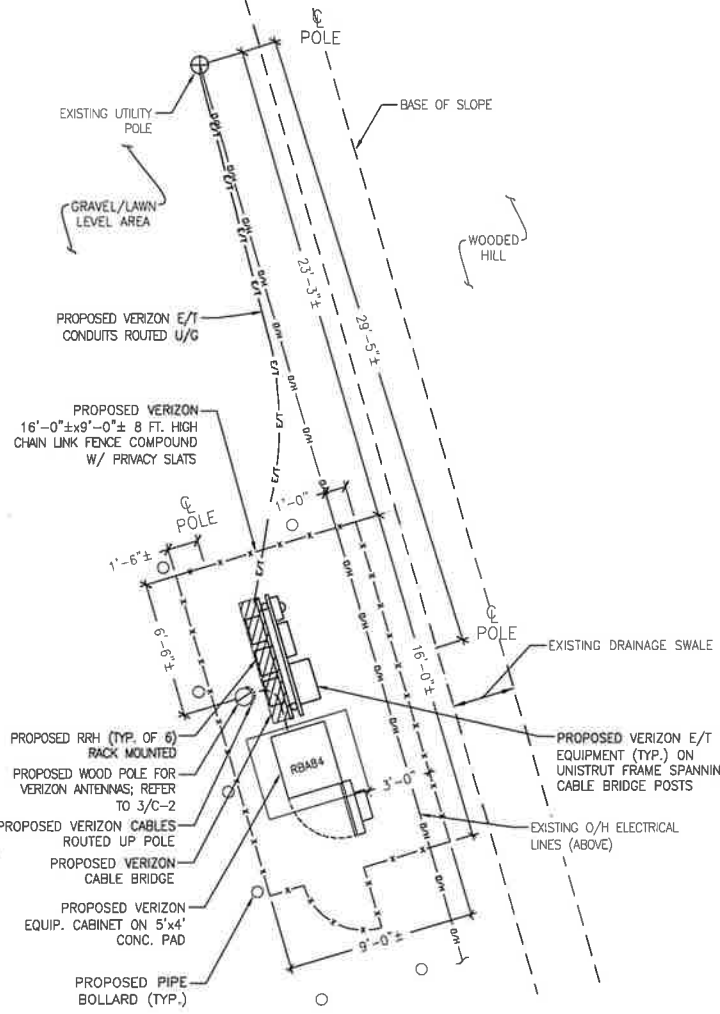
- (1) THE APPLICANT PROPOSES TO INSTALL A WIRELESS TELECOMMUNICATION FACILITY CONSISTING OF A SEVERAL PANEL ANTENNAS ON A NEW WOOD POLE AND OUTDOOR EQUIPMENT ON THE SUBJECT PARCEL. ANY INCREASE IN AMBIENT NOISE LEVELS WILL BE MINIMAL FROM THIS PROPOSED INSTALLATION.
- (2) THE FACILITY SHALL BE CONTINUOUSLY MONITORED FROM A REMOTE SWITCH FACILITY AND VISITED ONLY AS REQUIRED FOR MAINTENANCE PURPOSES.
- (3) THIS SET OF PLANS HAS BEEN PREPARED FOR THE PURPOSES OF CT SITTING COUNCIL REVIEW AND APPROVAL. THIS SET OF PLAN SHALL NOT BE UTILIZED AS CONSTRUCTION DOCUMENTS UNTIL ALL CONDITIONS OF APPROVAL HAVE BEEN SATISFIED.
- (4) SITE LAYOUT FEATURES AND PROPERTY LINE INFORMATION SHOWN ARE COMPILED FROM THE FOLLOWING SOURCES AND SUBJECT TO THE FINDINGS OF COMPLETE TITLE SEARCH AND CURRENT BOUNDARY SURVEY.
 - A. CURRENT TOWN OF DURHAM TAX MAPS
 - B. CURRENT ONLINE AERIAL PHOTOS
- (5) THERE SHALL BE NO CHANGE IN LOT COVERAGE AND/OR IMPROVED LOT COVERAGE AS PART OF THIS APPLICATION.
- (6) NO COMMERCIAL SIGNS ARE PROPOSED AS PART OF THIS APPLICATION.
- (7) VERIZON WIRELESS WILL CONNECT TO EXISTING UTILITIES ON THE PROPERTY OR NEARBY AS DETERMINED BY THE LOCAL UTILITY COMPANIES. EXISTING UNDERGROUND OR OVERHEAD UTILITIES ON THE PROPERTY WILL NOT BE AFFECTED BY THIS APPLICATION.
- (8) THE PROPOSED INSTALLATION WILL NOT DISTURB THE EXISTING PROPERTY GRADING, TOPOGRAPHY OR STORMWATER SYSTEMS.
- (9) VERIZON WIRELESS WILL UTILIZE THE EXISTING ACCESS AND PARKING AREAS AS PART OF THEIR FACILITY ACCESS.
- (10) THE PROPOSED FACILITY IS UNMANNED AND THE PROPOSED USE IS NOT INTENDED FOR PERMANENT EMPLOYEE OCCUPANCY. AS SUCH, POTABLE WATER AND SANITARY SEWERS ARE NOT REQUIRED. NO LIGHTING IS PROPOSED.
- (11) THE PROPOSED FACILITY WILL BE CONTAINED WITHIN FENCING AND AS SUCH, LANDSCAPING IS NOT PROPOSED.

1 SITE LAYOUT
C-1 Scale: 1" = 100'

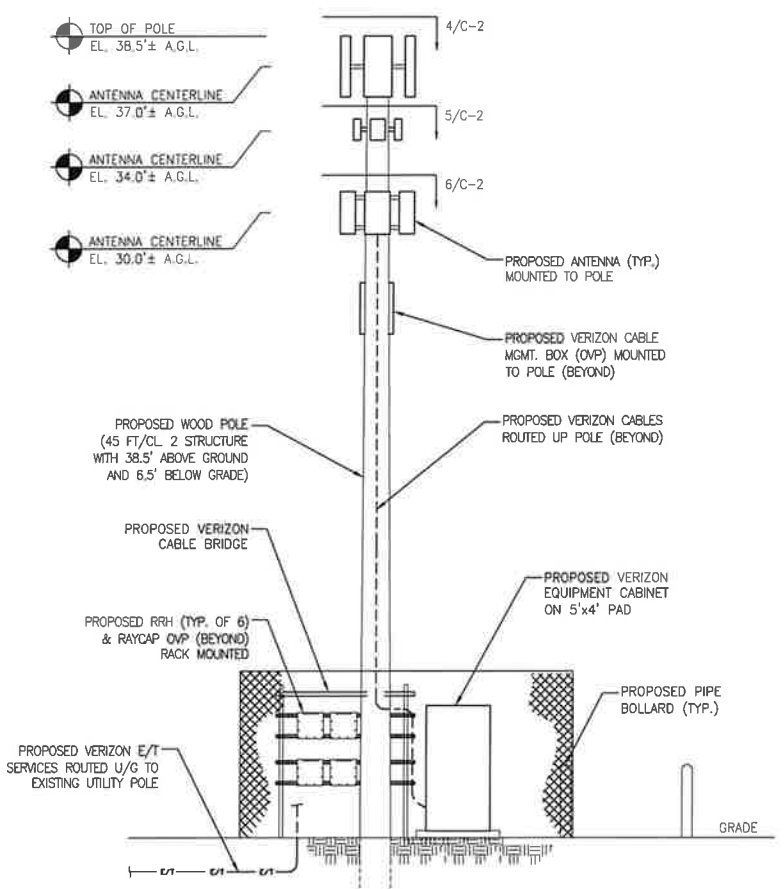
C-1



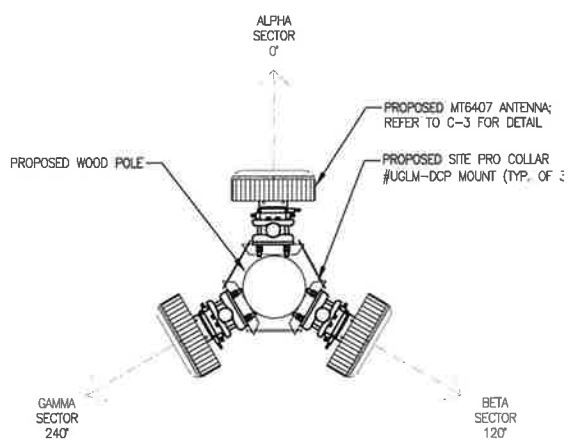
1 ENLARGED SITE LAYOUT
Scale: 1/32" = 1'-0"



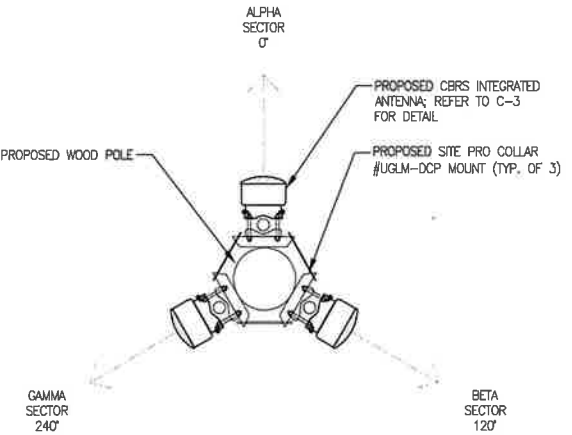
2 EQUIPMENT PLAN
Scale: 1/4" = 1'-0"



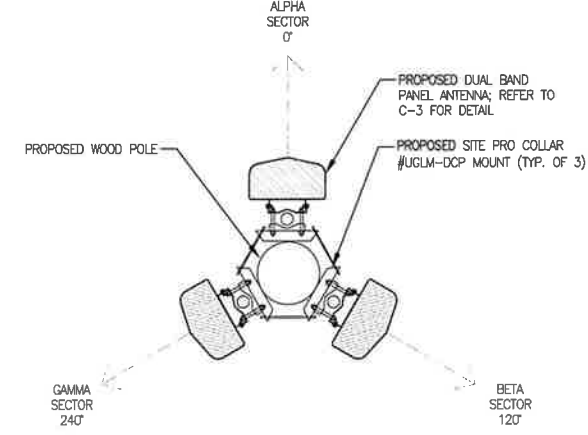
3 WEST ELEVATION
Scale: 1/4" = 1'-0"



4 ANTENNA PLAN - UPPER LEVEL
Scale: 3/4" = 1'-0"



5 ANTENNA PLAN - MID LEVEL
Scale: 3/4" = 1'-0"



6 ANTENNA PLAN - LOWER LEVEL
Scale: 3/4" = 1'-0"

Cellco Partnership
d/b/a Verizon Wireless



WIRELESS COMMUNICATIONS FACILITY
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

On Air Engineering, LLC

88 Foundry Pond Road
Cold Spring, NY 10516
onair@optonline.net
201-456-4624

LICENSURE



DAVID WEINFALL, P.E.
CT LIC. NO. 22144

| NO. | DATE | SUBMISSIONS |
|-----|----------|----------------------|
| 0 | 03.09.21 | REVIEW |
| 1 | 10.15.21 | REVISED PER NEW RFDS |
| 2 | 12.05.21 | REVISED PER NEW RFDS |
| 3 | 02.15.22 | CSC FILING SET |
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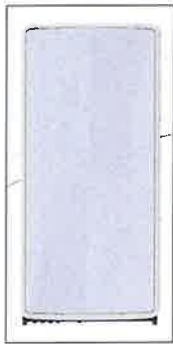
SITE NAME:
DURHAM FAIR 2 CT

PROJECT DESCRIPTION:
NEW BUILD MACRO

PROJECT INFORMATION:
**DURHAM FAIRGROUNDS
24 TOWNHOUSE RD.
DURHAM, CT 06422**

DRAWING TITLE:
PLANS & ELEVATION

SHEET NUMBER:
C-2



| MT6407 ANTENNA SPECIFICATIONS | | | | |
|-------------------------------|--------|-------|----------|--|
| HEIGHT | WIDTH | DEPTH | WEIGHT | |
| 35.12" | 16.06" | 5.5" | 79.4 LBS | |

1 MT6407 INTEGRATED ANTENNA
Scale: N.T.S.



| CBRS INTEGRATED ANTENNA SPECIFICATIONS | | | | |
|--|-------|-------|----------|--|
| HEIGHT | WIDTH | DEPTH | WEIGHT | |
| 12.1" | 8.5" | 4.1" | 18.6 LBS | |

2 CBRS INTEGRATED ANTENNA
Scale: N.T.S.



| XGU-MB-134 ANTENNA SPECIFICATIONS | | | | |
|-----------------------------------|-------|-------|----------|--|
| HEIGHT | WIDTH | DEPTH | WEIGHT | |
| 24.3" | 14.6" | 8.0" | 15.0 LBS | |

3 DUAL BAND PANEL ANTENNA
Scale: N.T.S.



| EQUIPMENT SPECIFICATIONS | | | | | | |
|--------------------------|--------|-------|-------|--------|------------|--|
| MODEL # | HEIGHT | WIDTH | DEPTH | WEIGHT | COLOR | |
| RVZDC-6627-PF-48 | 29.5" | 16.5" | 12.6" | 32 LBS | LIGHT GREY | |

4 CABLE DIST. BOX DETAIL
Scale: N.T.S.



| RRH DIMENSIONS 700/850 (B13/B5) | | | | | |
|---------------------------------|-------|-------|----------|-----------|--|
| HEIGHT | WIDTH | DEPTH | WEIGHT | COLOR | |
| 15" | 15" | 9.0" | 70.3 LBS | OFF-WHITE | |

5 RRH DETAIL - 700/850
Scale: N.T.S.



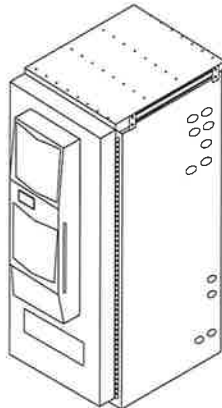
| RRH DIMENSIONS AWS/PCS (B66/B2) | | | | | |
|---------------------------------|-------|-------|----------|-----------|--|
| HEIGHT | WIDTH | DEPTH | WEIGHT | COLOR | |
| 15" | 15" | 10" | 74.7 LBS | OFF-WHITE | |

6 RRH DETAIL - AWS/PCS
Scale: N.T.S.



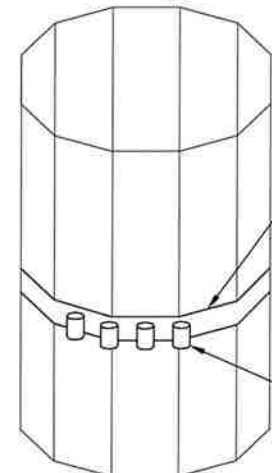
| EQUIPMENT SPECIFICATIONS | | | | | | |
|--------------------------|--------|-------|-------|----------|-------|--|
| MODEL # | HEIGHT | WIDTH | DEPTH | WEIGHT | COLOR | |
| CBC61923T-DS-43 | 6.9" | 7.8" | 4.2" | 11.7 LBS | GREY | |

7 AWS/PCS TRIPLEXER
Scale: N.T.S.

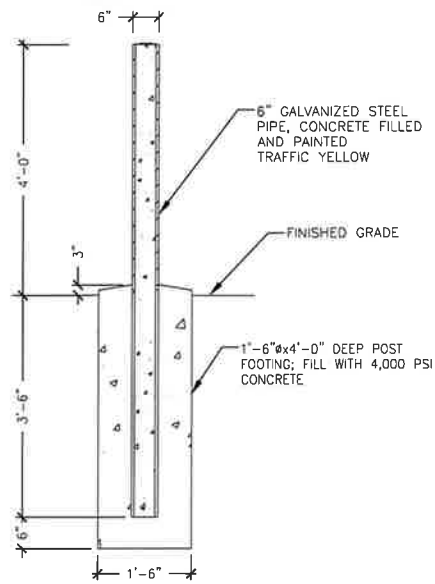


| EQUIPMENT SPECIFICATIONS | | | | | |
|--------------------------|--------|-------|-------|-----------|--|
| MODEL # | HEIGHT | WIDTH | DEPTH | WEIGHT | |
| RBA84 | 85.2" | 32.0" | 35.4" | 1,955 LBS | |

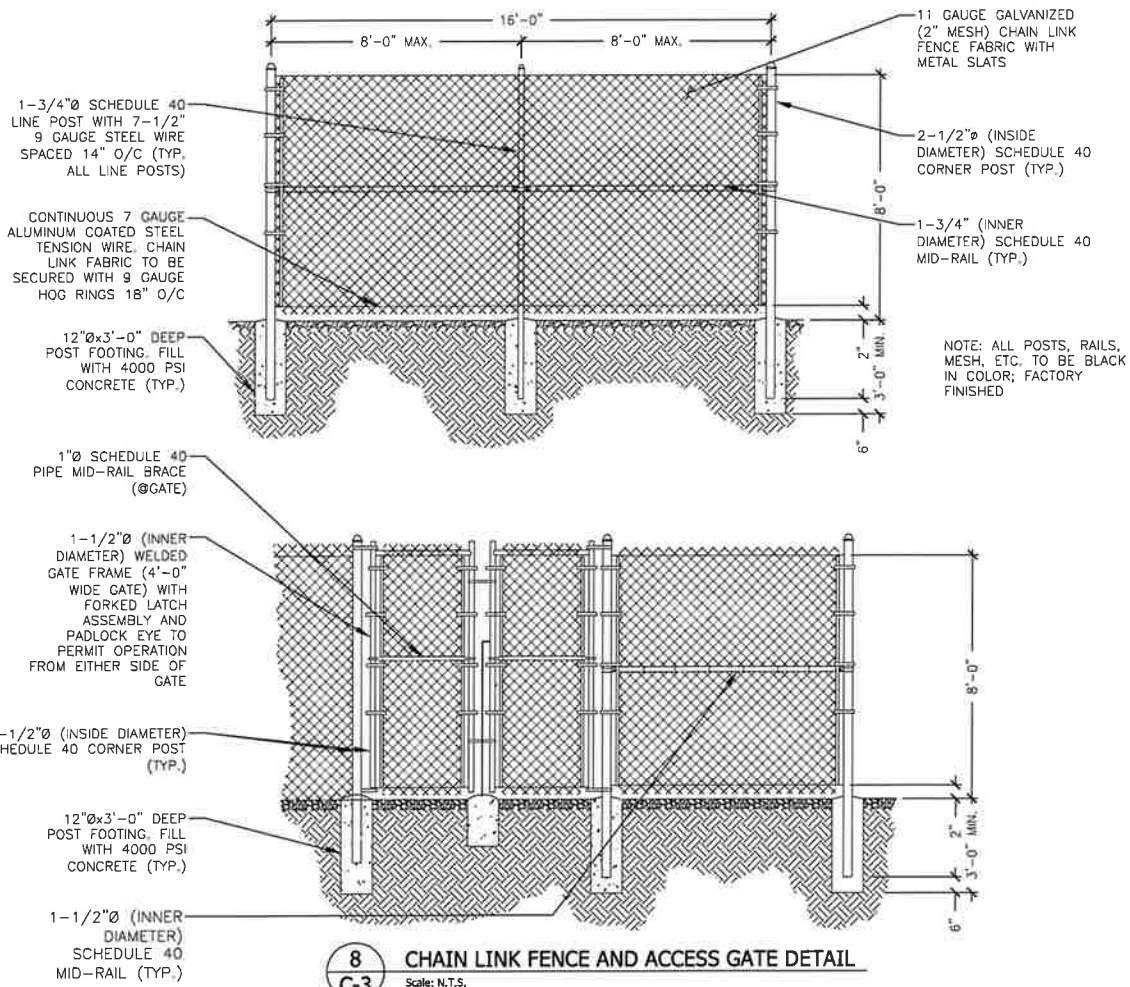
9 RBA84 EQUIPMENT CABINET
Scale: 3/8" = 1'-0"



10 CABLE STRAP DETAIL
Scale: 1-1/2" = 1'-0"



11 PIPE BOLLARD DETAIL
Scale: N.T.S.



8 CHAIN LINK FENCE AND ACCESS GATE DETAIL
Scale: N.T.S.

Cellco Partnership
d/b/a Verizon Wireless



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DRAWN BY:

AS

CHECKED BY:

DW

SITE NAME:

DURHAM FAIR 2 CT

PROJECT DESCRIPTION:

NEW BUILD MACRO

PROJECT INFORMATION:

DURHAM FAIRGROUNDS
24 TOWNHOUSE RD.
DURHAM, CT 06422

DRAWING TITLE:

DETAILS

SHEET NUMBER:

C-3

ATTACHMENT 3

Photographic Documentation & Simulations

DURHAM FAIRGROUNDS
24 TOWNHOUSE ROAD
DURHAM, CT 06422



Prepared in January 2022 by:
All-Points Technology Corporation, P.C.
567 Vauxhall Street Extension – Suite 311
Waterford, CT 06385

Prepared for Verizon Wireless





PHOTO LOG

Legend

- Site
- Visible
- Not Visible



1 inch = 200 feet





PHOTOGRAPHED ON 12/2/2020

EXISTING

| PHOTO | LOCATION | ORIENTATION | DISTANCE TO SITE | VISIBILITY |
|-------|---------------|-------------|------------------|------------|
| 1 | HOST PROPERTY | SOUTHEAST | +/- 346 FEET | VISIBLE |



PROPOSED

| PHOTO | LOCATION | ORIENTATION | DISTANCE TO SITE | VISIBILITY |
|-------|---------------|-------------|------------------|------------|
| 1 | HOST PROPERTY | SOUTHEAST | +/- 346 FEET | VISIBLE |



PHOTOGRAPHED ON 12/2/2020

EXISTING

| PHOTO | LOCATION | ORIENTATION | DISTANCE TO SITE | VISIBILITY |
|-------|---------------|-------------|------------------|------------|
| 2 | HOST PROPERTY | EAST | +/- 297 FEET | VISIBLE |





PROPOSED

| PHOTO | LOCATION | ORIENTATION | DISTANCE TO SITE | VISIBILITY |
|-------|---------------|-------------|------------------|------------|
| 2 | HOST PROPERTY | EAST | +/- 297 FEET | VISIBLE |



PHOTOGRAPHED ON 12/2/2020

EXISTING

| PHOTO | LOCATION | ORIENTATION | DISTANCE TO SITE | VISIBILITY |
|-------|---------------|-------------|------------------|------------|
| 3 | HOST PROPERTY | NORTH | +/- 313 FEET | VISIBLE |





PROPOSED

| PHOTO | LOCATION | ORIENTATION | DISTANCE TO SITE | VISIBILITY |
|-------|---------------|-------------|------------------|------------|
| 3 | HOST PROPERTY | NORTH | +/- 313 FEET | VISIBLE |



PHOTOGRAPHED ON 12/27/2020

EXISTING

| PHOTO | LOCATION | ORIENTATION | DISTANCE TO SITE | VISIBILITY |
|-------|---------------|-------------|------------------|------------|
| 4 | HOST PROPERTY | SOUTHEAST | +/- 75 FEET | VISIBLE |





PROPOSED

| PHOTO | LOCATION | ORIENTATION | DISTANCE TO SITE | VISIBILITY |
|-------|---------------|-------------|------------------|------------|
| 4 | HOST PROPERTY | SOUTHEAST | +/- 75 FEET | VISIBLE |



PHOTOGRAPHED ON 12/2/2020

EXISTING

| PHOTO | LOCATION | ORIENTATION | DISTANCE TO SITE | VISIBILITY |
|-------|-------------|-------------|------------------|-------------|
| 5 | MAIN STREET | NORTHWEST | +/- 0.18 MILE | NOT VISIBLE |





PHOTOGRAPHED ON 12/2/2020

EXISTING

PHOTO

6

LOCATION

MAIN STREET

ORIENTATION

WEST

DISTANCE TO SITE

+/- 0.13 MILE

VISIBILITY

NOT VISIBLE



ALL-POINTS
TECHNOLOGY CORPORATION





PHOTOGRAPHED ON 12/27/2020

EXISTING

| PHOTO | LOCATION | ORIENTATION | DISTANCE TO SITE | VISIBILITY |
|-------|-------------|-------------|------------------|------------|
| 7 | MAIN STREET | WEST | +/- 0.12 MILE | VISIBLE |



PROPOSED

| PHOTO | LOCATION | ORIENTATION | DISTANCE TO SITE | VISIBILITY |
|-------|-------------|-------------|------------------|------------|
| 7 | MAIN STREET | WEST | +/- 0.12 MILE | VISIBLE |



PHOTOGRAPHED ON 12/27/2020

EXISTING

| PHOTO | LOCATION | ORIENTATION | DISTANCE TO SITE | VISIBILITY |
|-------|-------------|-------------|------------------|-------------|
| 8 | MAIN STREET | SOUTHWEST | +/- 0.15 MILE | NOT VISIBLE |

ATTACHMENT 4

Site Name: **DURHAM FAIR 2 CT**
Cumulative Power Density

| Operator | Operating Frequency (MHz) | Number of Trans. | ERP Per Trans. (watts) | Total ERP (watts) | Distance to Target (feet) | Calculated Power Density (mW/cm ²) | Maximum Permissible Exposure* (mW/cm ²) | Fraction of MPE (%) |
|---|------------------------------|------------------|---------------------------|----------------------|------------------------------|---|--|------------------------|
| VZW PCS | 1975 | 4 | 926 | 3706 | 30 | 0.1481 | 1.0000 | 14.81% |
| VZW AWS | 2120 | 4 | 933 | 3731 | 30 | 0.1491 | 1.0000 | 14.91% |
| VZW CBRS | 3560.3 | 4 | 42 | 168 | 34 | 0.0052 | 1.0000 | 0.52% |
| VZW CBAND | 3730.08 | 4 | 6166 | 24664 | 37 | 0.6479 | 1.0000 | 64.79% |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Total Percentage of Maximum Permissible Exposure | | | | | | | | |
| | | | | | | | | 85.03% |

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

**Calculation includes a -10 dB Off Beam Antenna Pattern Adjustment pursuant to Attachments B and C of the Siting Council's November 10, 2015 Memorandum for Exempt Modification filings

MHz = Megahertz

mW/cm² = milliwatts per square centimeter

ERP = Effective Radiated Power

Absolute worst case maximum values used.

ATTACHMENT 5

* Federal Airways & Airspace
*
* Summary Report: New Construction
*
* Antenna Structure
*

Airspace User: Not Identified
File: DURAMFAIR2
Location: Durham, CT
Latitude: 41°-28'-6.17" Longitude:
72°-40'-55.28"
SITE ELEVATION AMSL.....170 ft.
STRUCTURE HEIGHT.....39 ft.
OVERALL HEIGHT AMSL.....209 ft.

NOTICE CRITERIA

FAR 77.9(a): NNR (DNE 200 ft AGL)
FAR 77.9(b): NNR (DNE Notice Slope)
FAR 77.9(c): NNR (Not a Traverse Way)
FAR 77.9: NNR FAR 77.9 IFR Straight-In Notice Criteria
for MMK
FAR 77.9: NNR FAR 77.9 IFR Straight-In Notice Criteria
for SNC
FAR 77.9(d): NNR (Off Airport Construction)

NR = Notice Required
NNR = Notice Not Required
PNR = Possible Notice Required (depends upon actual IFR
procedure)

For new construction review Air Navigation
Facilities at bottom
of this report.

Notice to the FAA is not required at the analyzed location
and height for
slope, height or Straight-In procedures. Please review the
'Air Navigation'
section for notice requirements for offset IFR procedures
and EMI.

OBSTRUCTION STANDARDS

FAR 77.17(a)(1): DNE 499 ft AGL

FAR 77.17(a)(2): DNE - Airport Surface
 FAR 77.19(a): DNE - Horizontal Surface
 FAR 77.19(b): DNE - Conical Surface
 FAR 77.19(c): DNE - Primary Surface
 FAR 77.19(d): DNE - Approach Surface
 FAR 77.19(e): DNE - Approach Transitional Surface
 FAR 77.19(e): DNE - Abeam Transitional Surface

VFR TRAFFIC PATTERN AIRSPACE FOR: MMK: MERIDEN MARKHAM MUNI
 Type: A RD: 42049.74 RE: 98.6

FAR 77.17(a)(1): DNE
 FAR 77.17(a)(2): Does Not Apply.
 VFR Horizontal Surface: DNE
 VFR Conical Surface: DNE
 VFR Primary Surface: DNE
 VFR Approach Surface: DNE
 VFR Transitional Surface: DNE

VFR TRAFFIC PATTERN AIRSPACE FOR: SNC: CHESTER
 Type: A RD: 56277.46 RE: 395

FAR 77.17(a)(1): DNE
 FAR 77.17(a)(2): Does Not Apply.
 VFR Horizontal Surface: DNE
 VFR Conical Surface: DNE
 VFR Primary Surface: DNE
 VFR Approach Surface: DNE
 VFR Transitional Surface: DNE

TERPS DEPARTURE PROCEDURE (FAA Order 8260.3, Volume 4)
 FAR 77.17(a)(3) Departure Surface Criteria (40:1)
 DNE Departure Surface

MINIMUM OBSTACLE CLEARANCE ALTITUDE (MOCA)
 FAR 77.17(a)(4) MOCA Altitude Enroute Criteria
 The Maximum Height Permitted is 1000 ft AMSL

| PRIVATE LANDING FACILITIES | | | |
|----------------------------|--|----------|-------|
| | FACIL | BEARING | RANGE |
| DELTA ARP FAA | IDENT TYP NAME | To FACIL | IN NM |
| ELEVATION IFR | | | |
| ----- | ----- | ----- | ----- |
| 1.19 | CT39 AIR MAPLEWOOD FARM -71 DNE Horizontal Surface. Check Runway Approach Surface. Within 1 NM. No Impact to Private Landing Facility. DNE 200 ft AGL within 3 NM of Airport. | 269.85 | |
| 3.48 | OCT1 HEL BRISTOL-MYERS SQUIBB COMPANY -141 | 286.37 | |

No Impact to Private Landing Facility
Structure 141 ft below heliport.

4.64 CT21 HEL C N FLAGG 300.65
-124

No Impact to Private Landing Facility
Structure 124 ft below heliport.

+152 CT98 HEL MIDDLESEX HOSPITAL 17.3 5.44

No Impact to Private Landing Facility
Structure is beyond notice limit by 28054 feet.

AIR NAVIGATION ELECTRONIC FACILITIES

| GRND | FAC | ST | DIST | DELTA | |
|------------|------|------------|------|--------|--------|
| ANGLE | IDNT | TYPE | AT | FREQ | VECTOR |
| BEAR | | | | | |
| | | | | | |
| | MAD | VOR/DME | R | 110.4 | 182.83 |
| MADISON | | | -.01 | | |
| | HFD | VOR/DME | R | 114.9 | 30.3 |
| HARTFORD | | | -.5 | | |
| | BDR | VOR/DME | R | 108.8 | 227.17 |
| BRIDGEPORT | | | .07 | | |
| | BDL | RADAR | I | | 359.96 |
| INTL | | | -.01 | | |
| | BDL | VORTAC | D | 109.0 | 359.41 |
| BRADLEY | | | .02 | | |
| | GON | VOR/DME | R | 110.8 | 106.43 |
| GROTON | | | .06 | | |
| | ORW | VOR/DME | I | 110.0 | 80.04 |
| NORWICH | | | -.03 | | |
| | CCC | VOR/DME | R | 117.2 | 189.26 |
| CALVERTON | | | .04 | | |
| | QVH | RADAR ARSR | Y | 1326.9 | 180.38 |
| RIVERHEAD | | | -.04 | | |
| | KOKX | RADAR WXL | Y | | 192.78 |
| 0.00 | | | | | |

CFR Title 47, §1.30000-§1.30004

AM STUDY NOT REQUIRED: Structure is not near a FCC
licensed AM station.

Movement Method Proof as specified in §73.151(c) is not
required.

Please review 'AM Station Report' for details.

Nearest AM Station: WMRD @ 11154 meters.

Airspace® Summary Version 21.3.608

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Airways & Airspace®
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04-05-2021
17:34:33

ATTACHMENT 6

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

Also admitted in Massachusetts
and New York

March 2, 2022

Via Certificate of Mailing

Laura Francis, First Selectwoman
Town of Durham
30 Townhouse Road
Durham, CT 06422

Re: **Petition for Declaratory Ruling Filed with the Connecticut Siting Council for
Wireless Telecommunications Facility at Durham Fairground, 42 Townhouse Road,
Durham, Connecticut**

Dear Ms. Francis:

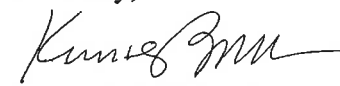
This firm represents Celco Partnership d/b/a Verizon Wireless ("Celco"). Today, Celco filed a Petition for Declaratory Ruling ("Petition") with the Connecticut Siting Council ("Council") seeking approval to install a telecommunications facility at Durham Fairgrounds at 42 Townhouse Road in Durham (the "Property").

The facility will consist of installing a wood utility pole in the southerly portion of the Property. Celco will install antennas at three (3) levels on the pole at centerline heights of 37 feet, 34 feet and 30 feet above ground level. Equipment associated with Celco's antennas will be located on the ground adjacent to the pole within a fenced enclosure.

A copy of the full Petition is attached for your review. Landowners whose parcels are considered to abut the Property were also sent notice of this filing.

Please contact me if you have any questions regarding this proposal.

Sincerely,



Kenneth C. Baldwin

Attachment

24254608-v1

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

Also admitted in Massachusetts
and New York

March 2, 2022

Via Certificate of Mailing

Robin Newton, Town Planner/Zoning Enforcement Officer
Town of Durham
30 Townhouse Road
Durham, CT 06422

Re: **Petition for Declaratory Ruling Filed with the Connecticut Siting Council for
Wireless Telecommunications Facility at Durham Fairground, 42 Townhouse Road,
Durham, Connecticut**

Dear Ms. Newton:

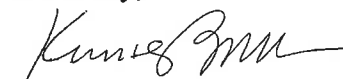
This firm represents Cellco Partnership d/b/a Verizon Wireless ("Cellco"). Today, Cellco filed a Petition for Declaratory Ruling ("Petition") with the Connecticut Siting Council ("Council") seeking approval to install a telecommunications facility at Durham Fairgrounds at 42 Townhouse Road in Durham (the "Property").

The facility will consist of installing a wood utility pole in the southerly portion of the Property. Cellco will install antennas at three (3) levels on the pole at centerline heights of 37 feet, 34 feet and 30 feet above ground level. Equipment associated with Cellco's antennas will be located on the ground adjacent to the pole within a fenced enclosure.

A copy of the full Petition is attached for your review. Landowners whose parcels are considered to abut the Property were also sent notice of this filing along with a copy of the Petition.

Please contact me if you have any questions regarding this proposal.

Sincerely,



Kenneth C. Baldwin

Attachment

24254836-v1

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

Also admitted in Massachusetts
and New York

March 2, 2022

Via Certificate of Mailing

Durham Agricultural Fair Association
P.O. Box 225
Durham, CT 06422-0225

Re: **Petition for Declaratory Ruling Filed with the Connecticut Siting Council for
Wireless Telecommunications Facility at Durham Fairground, 42 Townhouse Road,
Durham, Connecticut**

Dear Sir or Madam:

This firm represents Cellco Partnership d/b/a Verizon Wireless ("Cellco"). Today, Cellco filed a Petition for Declaratory Ruling ("Petition") with the Connecticut Siting Council ("Council") seeking approval to install a telecommunications facility at Durham Fairgrounds at 42 Townhouse Road in Durham (the "Property").

The facility will consist of installing a wood utility pole in the southerly portion of the Property. Cellco will install antennas at three (3) levels on the pole at centerline heights of 37 feet, 34 feet and 30 feet above ground level. Equipment associated with Cellco's antennas will be located on the ground adjacent to the pole within a fenced enclosure.

A copy of the full Petition is attached for your review. Landowners whose parcels are considered to abut the Property were also sent notice of this filing along with a copy of the Petition.

Please contact me if you have any questions regarding this proposal.

Sincerely,



Kenneth C. Baldwin

Attachment

24254842-v1

ATTACHMENT 7

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

Also admitted in Massachusetts
and New York

March 2, 2022

Via Certificate of Mailing

«Name_and_Address»

**Re: Petition for Declaratory Ruling Filed with the Connecticut Siting Council for
Wireless Telecommunications Facility at Durham Fairground, 42 Townhouse Road,
Durham, Connecticut**

Dear «Salutation»:

This firm represents Cellco Partnership d/b/a Verizon Wireless ("Cellco"). Today, Cellco filed a Petition for Declaratory Ruling ("Petition") with the Connecticut Siting Council ("Council") seeking approval to install a telecommunications facility at Durham Fairgrounds at 42 Townhouse Road in Durham (the "Property").

The facility will consist of installing a wood utility pole in the southerly portion of the Property. Cellco will install antennas at three (3) levels on the pole at centerline heights of 37 feet, 34 feet and 30 feet above ground level. Equipment associated with Cellco's antennas will be located on the ground adjacent to the pole within a fenced enclosure. A copy of the full Petition is attached for your review.

This notice is being sent to you because you are listed on the Town Assessor's records as an owner of land that abuts the Property. If you have any questions regarding the Petition, the Council's process for reviewing the Petition or the details of the filing itself, please feel free to contact me at the number listed above. You may also contact the Council directly at 860-827-2935.

Sincerely,



Kenneth C. Baldwin

Attachment

CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS

ABUTTING PROPERTY OWNERS

**24 TOWN HOUSR ROAD
DURHAM, CONNECTICUT**

| | Property Address | Owners and Mailing Address |
|----|----------------------------------|--|
| 1. | 30 Town House Road | Town of Durham P.O. Box 428 Durham, CT 06422-0428 |
| 2. | Maple Avenue | Durham Agricultural Fair Association P.O. Box 225 Durham, CT 06422-0225 |
| 3. | Maple Avenue | Durham Agricultural Fair Association P.O. Box 225 Durham, CT 06422-0225 |
| 4. | Maple Avenue | Town of Durham P.O. Box 428 Durham, CT 06422-0428 |
| 5. | Parmelee Hill Road | State of Connecticut Department of Energy and Environmental Protection 79 Elm Street Hartford, CT 06106 |
| 6. | Main Street | Town of Durham P.O. Box 428 Durham, CT 06422-0428 |
| 7. | 16 Main Street | LAMOS LLC P.O. Box 120111 East Haven, CT 06512 |
| 8. | Main Street | Durham Agricultural Fair Association P.O. Box 225 Durham, CT 06422-0225 |
| 9. | 52 Main Street 62 Main Street | Durham Agricultural Fair Association P.O. Box 225 Durham, CT 06422-0225 |

| | Property Address | Owners and Mailing Address |
|-----|---------------------------------|---|
| 10. | 68 Main Street | Durham Agricultural Fair Association P.O. Box 225 Durham, CT 06422-0225 |
| 11. | 10 Town House Road | Adele and George Eames 10 Town House Road Durham, CT 06422 |
| 12. | 18 Town House Road | Cheryl Salva 18 Town House Road Durham, CT 06422 |
| 13. | Town House Road (Town Green) | Town of Durham P.O. Box 428 Durham, CT 06422-0428 |