

Tectonic Engineering
Theresa Ranciato-Viele
63-3 N. Branford Road
Branford, CT 06405
Tranciato@Tectonicengineering.com
203-606-5127

December 21, 2022

Ms. Melanie Bachman, Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

**RE: Notice of Exempt Modification to an existing 81' monopole
located at 60 Commerce Drive, Trumbull, Connecticut**

Latitude: 41.2456 / Longitude: 73.1456

Dear Director Bachman:

This letter and attachments are submitted on behalf of Dish Wireless, LLC ("Dish"). Dish plans to install antennas and related equipment to the tower site at the existing 143' monopole tower facility located at 60 Commerce Drive, Trumbull, Connecticut (See Original Facility Approval attached as Exhibit A) ("Facility"). The property is owned by The Town of Trumbull and the tower is owned by Make-A-Wish Foundation of CT, Inc. (See Trumbull Vision Appraisal information attached hereto as Exhibit B).

Dish proposes to install three (3) 600/1900/2100 MHz JMA – MX08Fr0665-21 antennas and six (6) FUJITSU TA08025 RRUs on the tower at the ninety nine foot (99') centerline AGL. Dish further proposes to install one (1) 1.5" Hybrid Cable. Dish will also install its equipment cabinets on a 5' X 7' platform within its 10' X 15' lease area. The installation is shown on plans completed by Tectonic Engineering, dated December 15, 2022 and attached hereto as Exhibit C.

Dish requests that the Connecticut Siting Council ("Council") find that the proposed shared use of this Facility satisfies the criteria of C.G.S. sec. 16-50aa and accordingly issue an order approving the proposed shared use. This proposed installation constitutes an exempt modification pursuant to R.C.S.A. 16-50j-89. Pursuant to R.C.S.A. 16-50j-73, Dish is providing notice to Vicki A. Tesoro, First Selectperson of the Town of Trumbull, Rob Librandi, Land Use Planner, the property owner, Make-A-Wish Foundation of CT, Inc., and the tower owner, Cellco Partnership d/b/a Verizon Wireless.

Under the Council's regulations, Dish's plans do not constitute a modification subject to the Council's review in that:

Dish will not change the existing 81' height of the Tower as the Dish antennas will be installed at a height of 61'.

The proposed installation will not extend the existing boundaries of the compound as depicted in Exhibit C;

The proposed installation will not increase the noise levels at the facility by six (6) decibels or more, or to levels that exceed local and state criteria; and

The proposed antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard. The attached Exhibit F indicates that the combined site operations will result in a total power density of 3.9721%.

Tower

The Facility consists of an Eighty One (81') foot monopole tower located at 60 Commerce Drive, Trumbull, Connecticut. As indicated above, property is owned by the Make-A-Wish Foundation of CT, Inc., and the tower is owned by Cellco Partnership. The tower currently supports Verizon at the eighty foot (80') centerline AGL. The antenna locations are set forth on Sheet A-2 of the attached drawings in Exhibit C.

A. TECHNICAL FEASIBILITY

The existing monopole has been deemed structurally capable of supporting the proposed Dish loading. The structural and mount analysis is attached hereto as Exhibit D.

B. LEGAL FEASIBILITY

C.G.S. Se. 16-50aa authorizes the Council to issue orders approving the shared use of existing towers such as the above referenced tower. Under the authority granted to the Council, an order of the Council approving the requested shared use would permit Dish to obtain a building permit from the Town of Trumbull to proceed with the proposed installation. Additionally, a Lease Supplement to The Master Lease Agreement is attached as Exhibit E, granting Dish the authority from the tower owner to proceed with this application for shared use.

C. ENVIRONMENTAL FEASIBILITY

The proposed shared use of this Facility would have a minimal environmental impact. The installation of the Dish equipment at the 61' level of the existing tower would have an insignificant visual impact on the area surrounding the tower. The proposed Dish ground equipment would be installed within the

existing Facility compound. The Dish installation would not cause any significant alteration to the physical or environmental characteristics of the existing Facility. Additionally, as evidenced by Exhibit F, the proposed antennas would not increase the radio frequency emissions to a level at or above the Federal Communications Commission safety standards.

D. ECONOMIC FEASIBILITY

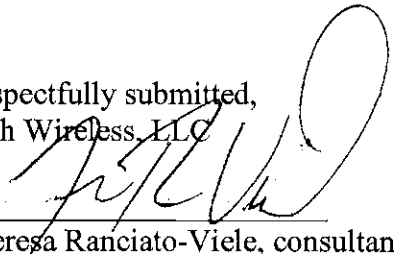
Dish has entered into a Lease Agreement (Exhibit E) with the Facility owner for the proposed colocation. Therefore, this shared use is economically feasible.

E. PUBLIC SAFETY CONCERNS

As set forth above, the tower is structurally capable of supporting the proposed Dish loading. Dish is not aware of any public safety concerns relative to the proposed sharing of the existing tower.

For the reasons set forth herein, the proposed shared use of the existing tower at 60 Commerce Drive, Trumbull, satisfies the criteria stated in C.G.S. sec. 16-50aa, and supports the general goal of preventing the unnecessary proliferation of tower sites in Connecticut. Dish respectfully requests the Council issue an order approving the proposed shared use.

Respectfully submitted,
Dish Wireless, LLC

By: 
Theresa Ranciato-Viele, consultant
63-3 N. Branford Road
Branford, CT 06405

Tranciato@Tectonicengineering.com
203-606-5127

cc: Trumbull First Selectperson, Honorable Vicki A. Tesoro
5866 Main St.
Second Floor
Trumbull, CT 06611

Trumbull Land Use Planner, Rob Librandi
5866 Main St.
Second Floor
Trumbull, CT 06611

Tower Owner: Cellco Partnership
One Verizon Way
Mail Stop 4AW100
Basking Ridge, NJ 07920



PRACTICAL SOLUTIONS. EXCEPTIONAL SERVICE.

Property Owner: Make-A-Wish Foundation of CT, Inc.
56 Commerce Dr.
Trumbull, CT 00011

Exhibit A
Original Facility Approval

DOCKET NO. 446 - Celco Partnership d/b/a Verizon Wireless application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance, and operation of a telecommunications facility located at the Pilot Corporation of America property, Trumbull Tax Assessor Map K/09 Lot 20, 60 Commerce Drive, Trumbull, Connecticut.	} } }	Connecticut Siting Council June 26, 2014
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Decision and Order

Pursuant to Connecticut General Statutes §16-50p and the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, maintenance, and operation of a telecommunications facility, including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate, either alone or cumulatively with other effects, when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application, and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to Celco Partnership d/b/a Verizon Wireless, hereinafter referred to as the Certificate Holder, for a telecommunications facility at the Pilot Corporation of America property, Trumbull Tax Assessor Map K/09 Lot 20, 60 Commerce Drive, Trumbull, Connecticut

Unless otherwise approved by the Council, the facility shall be constructed, operated, and maintained substantially as specified in the Council's record in this matter, and subject to the following conditions:

1. The tower shall be constructed as a monopole, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of the Certificate Holder and other entities, both public and private, but such tower shall not exceed a height of 80 feet above ground level.

2. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be served on the Towns of Trumbull and Stratford for comment, and all parties and intervenors as listed in the service list, and submitted to and approved by the Council prior to the commencement of facility construction and shall include:
 - a) a final site plan(s) of site development to include specifications for the tower, tower foundation, antennas, equipment compound, radio equipment, access road, utility line, emergency backup generator and landscaping;
 - b) construction plans for site clearing, grading, landscaping, water drainage, and erosion and sedimentation controls consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended; and,
 - c) details of the box turtle protection program, as per the Department of Energy and Environmental Protection's recommendation.

3. Prior to the commencement of operation, the Certificate Holder shall provide the Council worst-case modeling of the electromagnetic radio frequency power density of all proposed entities' antennas at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 65, August 1997. The Certificate Holder shall ensure a recalculated report of the electromagnetic radio frequency power density be submitted to the Council if and when circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.

4. Upon the establishment of any new State or Federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.
5. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.
6. Unless otherwise approved by the Council, if the facility authorized herein is not fully constructed with at least one fully operational wireless telecommunications carrier providing wireless service within eighteen months from the date of the mailing of the Council's Findings of Fact, Opinion, and Decision and Order (collectively called "Final Decision"), this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made. The time between the filing and resolution of any appeals of the Council's Final Decision shall not be counted in calculating this deadline. Authority to monitor and modify this schedule, as necessary, is delegated to the Executive Director. The Certificate Holder shall provide written notice to the Executive Director of any schedule changes as soon as is practicable.
7. Any request for extension of the time period referred to in Condition 6 shall be filed with the Council not later than 60 days prior to the expiration date of this Certificate and shall be served on all parties and intervenors, as listed in the service list, and the Towns of Trumbull and Stratford. Any proposed modifications to this Decision and Order shall likewise be so served.
8. If the facility ceases to provide wireless services for a period of one year, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council within 90 days from the one year period of cessation of service. The Certificate Holder may submit a written request to the Council for an extension of the 90 day period not later than 60 days prior to the expiration of the 90 day period.
9. Any nonfunctioning antenna, and associated antenna mounting equipment, on this facility shall be removed within 60 days of the date the antenna ceased to function.
10. In accordance with Section 16-50j-77 of the Regulations of Connecticut State Agencies, the Certificate Holder shall provide the Council with written notice two weeks prior to the commencement of site construction activities. In addition, the Certificate Holder shall provide the Council with written notice of the completion of site construction, and the commencement of site operation.
11. The Certificate Holder shall remit timely payments associated with annual assessments and invoices submitted by the Council for expenses attributable to the facility under Conn. Gen. Stat. §16-50v.
12. This Certificate may be transferred in accordance with Conn. Gen. Stat. §16-50k(b), provided both the Certificate Holder/transferor and the transferee are current with payments to the Council for their respective annual assessments and invoices under Conn. Gen. Stat. §16-50v. In addition, both the Certificate Holder/transferor and the transferee shall provide the Council a written agreement as to the entity responsible for any quarterly assessment charges under Conn. Gen. Stat. §16-50v(b)(2) that may be associated with this facility.

13. The Certificate Holder shall maintain the facility and associated equipment, including but not limited to, the tower, tower foundation, antennas, equipment compound, radio equipment, access road, utility line and landscaping in a reasonable physical and operational condition that is consistent with this Decision and Order and a Development and Management Plan to be approved by the Council.
14. If the Certificate Holder is a wholly-owned subsidiary of a corporation or other entity and is sold/transferred to another corporation or other entity, the Council shall be notified of such sale and/or transfer and of any change in contact information for the individual or representative responsible for management and operations of the Certificate Holder within 30 days of the sale and/or transfer.
15. This Certificate may be surrendered by the Certificate Holder upon written notification and approval by the Council.

We hereby direct that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed in the Service List, dated February 26, 2014, and notice of issuance published in the Connecticut Post.

By this Decision and Order, the Council disposes of the legal rights, duties, and privileges of each party named or admitted to the proceeding in accordance with Section 16-50j-17 of the Regulations of Connecticut State Agencies.

Exhibit B
Property Card

56 COMMERCE DRIVE

Location 56 COMMERCE DRIVE

Mblu K/09 / 00020/ 000/

Acct#

Owner MAKE-A-WISH FOUNDATION
OF CT INC

Assessment \$1,783,390

Appraisal \$2,547,700

PID 8889

Building Count 1

Fire District N

Assessing District

Current Value

Appraisal	
Valuation Year	Total
2021	\$2,547,700

Assessment	
Valuation Year	Total
2021	\$1,783,390

Owner of Record

Owner MAKE-A-WISH FOUNDATION OF CT INC
Co-Owner
Address 56 COMMERCE DR
TRUMBULL, CT 06611-5403

Sale Price \$2,100,000
Book & Page 1787/0291
Sale Date 06/06/2019
Instrument UNKQ

Ownership History

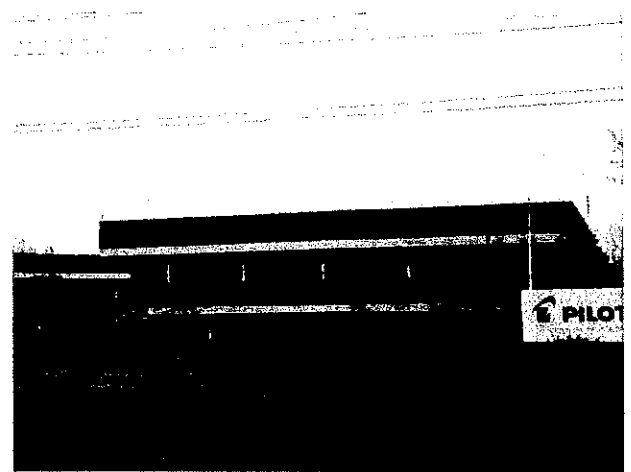
Ownership History				
Owner	Sale Price	Book & Page	Instrument	Sale Date
MAKE-A-WISH FOUNDATION OF CT INC	\$2,100,000	1787/0291	UNKQ	06/06/2019
CITY PARK COMMERCE DRIVE LLC & PILOT CORP OF AMERICA	\$4,450,000	1666/0601	UNKQ	06/25/2014
	\$0	0470/0050		10/13/1982

Building Information

Building 1 : Section 1

Year Built: 1983
Living Area: 16,338
Replacement Cost: \$1,505,812
Building Percent Good: 45
Replacement Cost
Less Depreciation: \$677,600

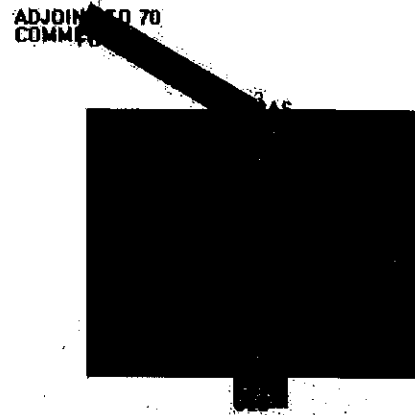
Building Photo



(https://images.vgsi.com/photos2/TrumbullCTPhotos/A00\00\00\11.jpg)

Building Attributes	
Field	Description
STYLE	Office Bldg
Grade	C
Stories:	2 Stories
Occupancy	1
Exterior Wall 1	Brick Veneer
Exterior Wall 2	
Roof Structure	Flat
Roof Cover	Tar & Gravel
Interior Wall 1	Drywall
Interior Wall 2	
Interior Floor 1	Carpet
Interior Floor 2	
Heating Fuel	Gas
Heating Type	Forced Air
AC Type	Central
Bldg Use	Charitable Bldg
1st Floor Use:	
Heat/AC	Heat/AC Pkgs
Frame Type	Fireprf Steel
Baths/Plumbing	Average
Ceiling/Walls	Sus-Ceil & WL
Rooms/Prtns	Average
Wall Height	12
% Conn Wall	

Building Layout



(https://images.vgsi.com/photos2/TrumbullCTPhotos/Sketches/8889_8889)

Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
FUS	Finished Upper Story	6,700	6,700
BAS	First Floor	4,838	4,838
FBL	Fin Bsmt Living Area	4,800	4,800
CAN	Canopy	112	0
SLB	Slab	112	0
		16,562	16,338

Extra Features

Extra Features				Legend
Code	Description	Size	Bldg #	
ELV	Elevator	1 Units		1
SPR	Sprinklers	15938 S.F.		1

Land**Land Use**

Use Code 977
Description Charitable Bldg
Zone IL-3
Neighborhood 545
Alt Land Appr No
Category

Land Line Valuation

Size (Acres) 6.5
Frontage
Depth

Outbuildings

Outbuildings					Legend
Code	Description	Sub Code	Sub Description	Size	Bldg #
PAV1	Paving Asph.			29000 S.F.	1
LT1	Light - 1			9 Units	1
LT2	Light - 2			1 Units	1

Valuation History

Appraisal	
Valuation Year	Total
2020	\$2,479,800
2019	\$2,479,800
2018	\$5,529,900

Assessment	
Valuation Year	Total
2020	\$1,735,860
2019	\$1,735,860
2018	\$3,870,930

Exhibit C
Project Plans



DISH Wireless L.L.C. SITE ID:
NJJER01153A

DISH Wireless L.L.C. SITE ADDRESS:

**60 COMMERCE DRIVE
 TRUMBULL, CT 06611**

CONNECTICUT CODE COMPLIANCE

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

- CODE TITLE
- 2022 CT STATE BUILDING CODE/2021 IBC W/ CT AMENDMENTS
- 2022 CT STATE ELECTRICAL CODE/2020 NEC W/ CT AMENDMENTS
- 2022 CT STATE BUILDING CODE/2020 NEC W/ CT AMENDMENTS

SHEET INDEX

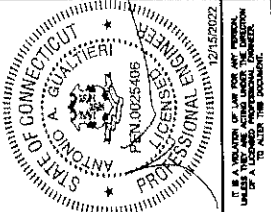
SHEET NO.	SHEET TITLE
T-1	TITLE SHEET
A-1	OVERALL SITE PLAN AND ENLARGED SITE PLAN
A-2	ELEVATOR, ANTENNA LAYOUT AND SCHEDULE
A-3	EQUIPMENT PLATFORM LAYOUT
A-4	EQUIPMENT DETAILS
A-5	EQUIPMENT DETAILS
A-6	EQUIPMENT DETAILS
E-1	ELECTRICAL/WIRER ROUTE PLAN AND NOTES
E-1A	FIBER ROUTING PATH
E-2	ELECTRICAL DETAILS
E-3	ELECTRICAL ONE-LINE, FAULT CALC & PANEL SCHEDULE
E-4	PHC NEUTRAL-TO-GROUND SCHEMATIC
G-1	DRAINAGING PLANS AND NOTES
G-2	DRAINAGING DETAILS
G-3	DRAINAGING DETAILS
RF-1	RF CABLE COLOR CODE
GH-1	LEGEND AND ABBREVIATIONS
GH-2	GENERAL NOTES
GH-3	GENERAL NOTES
GH-4	GENERAL NOTES

SITE INFORMATION

PROPERTY OWNER:	HAUSE-A-WISH FOUNDATION OF CT INC.
ADDRESS:	60 COMMERCE DRIVE TRUMBULL, CT 06611
TOWER TYPE:	MONOPOLE
TOWER CO SITE ID:	28483
TOWER APP NUMBER:	N/A
COUNTY:	FARFIELD COUNTY
LATITUDE (NAD 83):	41° 14' 44.14" N
LONGITUDE (NAD 83):	41.248801° W
ZONING JURISDICTION:	TOWN OF TRUMBULL
ZONING DISTRICT:	E-3
PARCEL NUMBER:	108-20
OCCUPANCY GROUP:	U
CONSTRUCTION TYPE:	I-B
POWER COMPANY:	UNITED ILLUMINATING CO.
TELEPHONE COMPANY:	LEGISPAR

PROJECT DIRECTORY

APPLICANT:	DISH Wireless L.L.C. 5701 SOUTH SANTA FE DRIVE LITTLETON, CO 80120
TOWER OWNER:	KOB WIRELESS 805 LAS OMAS PARKWAY BALDING #1, SUITE 370 AUSTIN, TX 78746
SITE DESIGNER:	TECTONIC ENGINEERING CONSULTANTS, DESIGNERS & LAND SURVEYORS, D.P.C., INC. 1378 ROUTE 300 MERRIDEN, NJ 12890
SITE ACQUISITION:	TECTONIC ENGINEERING CONSULTANTS, DESIGNERS & LAND SURVEYORS, D.P.C., INC. 1378 ROUTE 300 MERRIDEN, NJ 12890 (848) 587-6888
CONSTRUCTION MANAGER:	NAVAL RESEARCH INSTITUTE PARAMANOR@NSA.MIL PARAMANOR@NSA.GOV
RF ENGINEER:	PARAMANOR@NSA.GOV



DRAWN BY: CHECKED BY: APPROVED BY:

RFDS REV #

CONSTRUCTION DOCUMENTS

SUBMITTALS

REV #	DATE	DESCRIPTION
0	10/15/22	ISSUED FOR PERMITS

44E PROJECT NUMBER
 10710.NJJER01153A

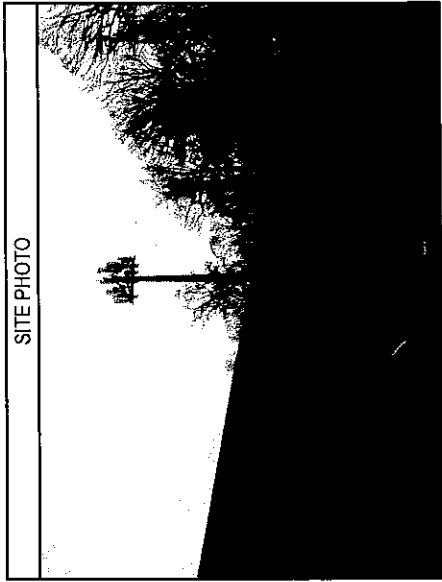
DISH Wireless L.L.C.
 PROJECT INFORMATION
 NJJER01153A

60 COMMERCE DRIVE
 TRUMBULL, CT 06611

SHEET TITLE
 TITLE SHEET

SHEET NUMBER
 T-1

- SCOPE OF WORK**
- THIS IS NOT AN ALL INCLUSIVE LIST. CONTRACTOR SHALL UTILIZE SPECIFIED EQUIPMENT PART OR DRAWER APPROVED EQUIPMENT. CONTRACTOR SHALL VERIFY ALL REQUIRED EQUIPMENT TO PROVIDE A FUNCTIONAL SITE. THE PROJECT GENERALLY CONSISTS OF THE FOLLOWING:
- TOWER SCOPE OF WORK:
 - INSTALL (1) PROPOSED METAL PLATFORM
 - INSTALL (1) PROPOSED ANTENNA PLANT
 - INSTALL (1) PROPOSED JUMPER (S PER SECTION)
 - INSTALL (1) PROPOSED OVER VOLTAGE PROTECTION DEVICE (OVP)
 - INSTALL (1) PROPOSED HYBRID CABLE
 - GROUND SCOPE OF WORK:
 - INSTALL (1) PROPOSED METAL PLATFORM
 - INSTALL (1) PROPOSED PHC CABINET
 - INSTALL (1) PROPOSED POWER CONDUIT
 - INSTALL (1) PROPOSED TELCO CONDUIT
 - INSTALL (1) PROPOSED TELCO-FIBER BOX
 - INSTALL (1) PROPOSED SAFETY SWITCH (IF REQUIRED)
 - INSTALL (1) PROPOSED CERN BOX (IF REQUIRED)
 - INSTALL (1) PROPOSED METER SOCKET
 - INSTALL (1) BIC INVOICE



811

UNDERGROUND SERVICE ALERT (CITY) 811
 (800) 822-4485
 WWW.C811.CT.COM

CALL & EXPLORE YOUR UTILITY INFORMATION PRIOR TO CONSTRUCTION

GENERAL NOTES

THE FACILITY IS UNMANNED AND NOT FOR HUMAN OCCUPATION. A TOWERWALKER WITH SAFETY NETS IS REQUIRED. NO SANITARY SERVICE, POTABLE WATER OR FINISH DISPOSAL IS REQUIRED AND NO COMMERCIAL STORAGE IS PROPOSED.

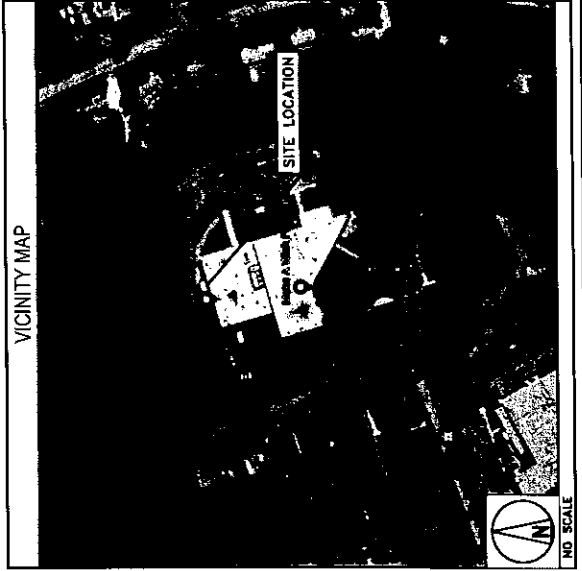
11"x17" PLOT WILL BE HALF SCALE UNLESS OTHERWISE NOTED

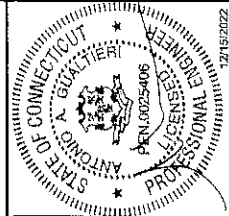
CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE, AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

DIRECTIONS

DIRECTIONS FROM 3. ADE BOULEVARD, ROSELAND, NJ:

TRAVEL WEST ON 3. ADE BOULEVARD FOR APPROXIMATELY 0.5 MILES TO THE FIRST TRAFFIC LIGHT. TURN RIGHT ON 3. ADE BOULEVARD FOR APPROXIMATELY 0.2 MILES TO THE SECOND TRAFFIC LIGHT. TURN LEFT ON 3. ADE BOULEVARD FOR APPROXIMATELY 0.1 MILES TO THE THIRD TRAFFIC LIGHT. TURN RIGHT ON 3. ADE BOULEVARD FOR APPROXIMATELY 0.1 MILES TO THE FOURTH TRAFFIC LIGHT. TURN LEFT ON 3. ADE BOULEVARD FOR APPROXIMATELY 0.1 MILES TO THE FIFTH TRAFFIC LIGHT. TURN RIGHT ON 3. ADE BOULEVARD FOR APPROXIMATELY 0.1 MILES TO THE SIXTH TRAFFIC LIGHT. TURN LEFT ON 3. ADE BOULEVARD FOR APPROXIMATELY 0.1 MILES TO THE SEVENTH TRAFFIC LIGHT. TURN RIGHT ON 3. ADE BOULEVARD FOR APPROXIMATELY 0.1 MILES TO THE EIGHTH TRAFFIC LIGHT. TURN LEFT ON 3. ADE BOULEVARD FOR APPROXIMATELY 0.1 MILES TO THE NINTH TRAFFIC LIGHT. TURN RIGHT ON 3. ADE BOULEVARD FOR APPROXIMATELY 0.1 MILES TO THE TENTH TRAFFIC LIGHT. TURN LEFT ON 3. ADE BOULEVARD FOR APPROXIMATELY 0.1 MILES TO THE ELEVENTH TRAFFIC LIGHT. TURN RIGHT ON 3. ADE BOULEVARD FOR APPROXIMATELY 0.1 MILES TO THE TWELFTH TRAFFIC LIGHT. TURN LEFT ON 3. ADE BOULEVARD FOR APPROXIMATELY 0.1 MILES TO THE THIRTEENTH TRAFFIC LIGHT. TURN RIGHT ON 3. ADE BOULEVARD FOR APPROXIMATELY 0.1 MILES TO THE FOURTEENTH TRAFFIC LIGHT. TURN LEFT ON 3. ADE BOULEVARD FOR APPROXIMATELY 0.1 MILES TO THE FIFTEENTH TRAFFIC LIGHT. TURN RIGHT ON 3. ADE BOULEVARD FOR APPROXIMATELY 0.1 MILES TO THE SIXTEENTH TRAFFIC LIGHT. TURN LEFT ON 3. ADE BOULEVARD FOR APPROXIMATELY 0.1 MILES TO THE SEVENTEENTH TRAFFIC LIGHT. TURN RIGHT ON 3. ADE BOULEVARD FOR APPROXIMATELY 0.1 MILES TO THE EIGHTEENTH TRAFFIC LIGHT. TURN LEFT ON 3. ADE BOULEVARD FOR APPROXIMATELY 0.1 MILES TO THE NINETEENTH TRAFFIC LIGHT. TURN RIGHT ON 3. ADE BOULEVARD FOR APPROXIMATELY 0.1 MILES TO THE TWENTIETH TRAFFIC LIGHT. TURN LEFT ON 3. ADE BOULEVARD FOR APPROXIMATELY 0.1 MILES TO THE TWENTY-FIRST TRAFFIC LIGHT. TURN RIGHT ON 3. ADE BOULEVARD FOR APPROXIMATELY 0.1 MILES TO THE TWENTY-SECOND TRAFFIC LIGHT. TURN LEFT ON 3. ADE BOULEVARD FOR APPROXIMATELY 0.1 MILES TO THE TWENTY-THIRD TRAFFIC LIGHT. TURN RIGHT ON 3. ADE BOULEVARD FOR APPROXIMATELY 0.1 MILES TO THE TWENTY-FOURTH TRAFFIC LIGHT. TURN LEFT ON 3. ADE BOULEVARD FOR APPROXIMATELY 0.1 MILES TO THE TWENTY-FIFTH TRAFFIC LIGHT. TURN RIGHT ON 3. ADE BOULEVARD FOR APPROXIMATELY 0.1 MILES TO THE TWENTY-SIXTH TRAFFIC LIGHT. TURN LEFT ON 3. ADE BOULEVARD FOR APPROXIMATELY 0.1 MILES TO THE TWENTY-SEVENTH TRAFFIC LIGHT. TURN RIGHT ON 3. ADE BOULEVARD FOR APPROXIMATELY 0.1 MILES TO THE TWENTY-EIGHTH TRAFFIC LIGHT. TURN LEFT ON 3. ADE BOULEVARD FOR APPROXIMATELY 0.1 MILES TO THE TWENTY-NINTH TRAFFIC LIGHT. TURN RIGHT ON 3. ADE BOULEVARD FOR APPROXIMATELY 0.1 MILES TO THE THIRTIETH TRAFFIC LIGHT. TURN LEFT ON 3. ADE BOULEVARD FOR APPROXIMATELY 0.1 MILES TO THE THIRTY-FIRST TRAFFIC LIGHT. TURN RIGHT ON 3. ADE BOULEVARD FOR APPROXIMATELY 0.1 MILES TO THE THIRTY-SECOND TRAFFIC LIGHT. TURN LEFT ON 3. 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IT IS A VIOLATION OF LAW FOR ANY PERSON, WITHOUT THE SIGNATURE OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

DRAWN BY: []
CHECKED BY: []
DATE: []

CONSTRUCTION DOCUMENTS

REV	DATE	DESCRIPTION
0	12/13/22	ISSUE FOR PERMITS

AGE PROJECT NUMBER
10770.NJIER01153A

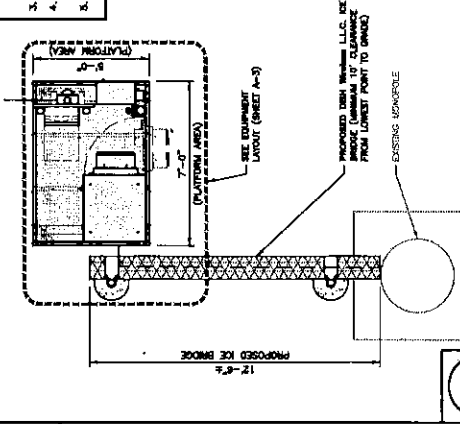
ISS: WIRELESS, LLC
PROJECT INFORMATION
NJIER01153A

60 COMMERCE DRIVE
TRUMBULL, CT 06611

SHEET TITLE
OVERALL AND ENLARGED
SITE PLAN

SHEET NUMBER
A-1

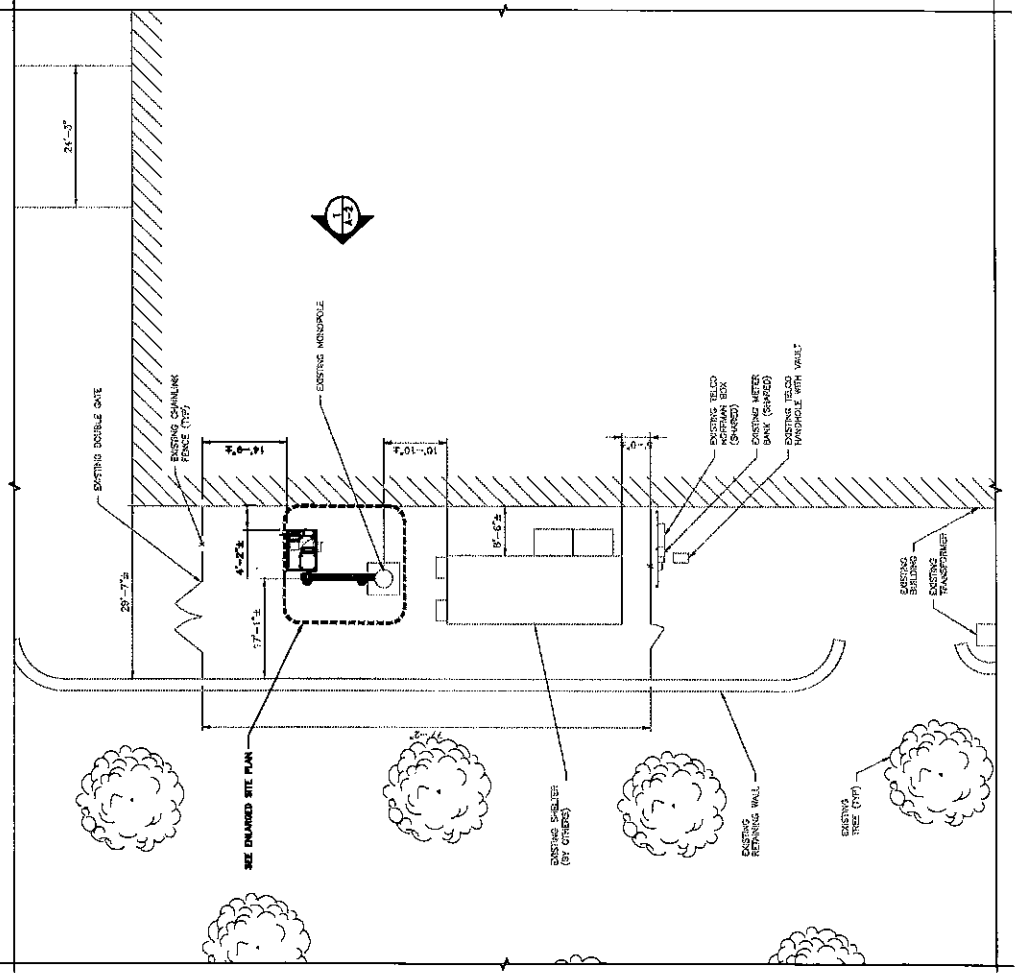
- NOTES**
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
 - CONTRACTOR SHALL MAINTAIN A 10'-0" MINIMUM SEPARATION BETWEEN THE PROPOSED UPS UNIT, TRANSMITTING ANTENNAS AND EXISTING OPS DATE.
 - ANTENNAS AND MOUNTS OMITTED FOR CLARITY.
 - REFER TO STRUCTURAL ANALYSIS REPORT BY SEMANI ENGINEERING SOLUTIONS DATED 12/13/22
 - REFER TO MOUNT ANALYSIS REPORT BY TECTONIC DATED 12/09/22



ENLARGED SITE PLAN



- NOTES**
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
 - ANTENNAS AND MOUNTS OMITTED FOR CLARITY.
 - REFER TO STRUCTURAL ANALYSIS REPORT BY SEMANI ENGINEERING SOLUTIONS DATED 12/13/22
 - REFER TO MOUNT ANALYSIS REPORT BY TECTONIC DATED 12/09/22



OVERALL SITE PLAN

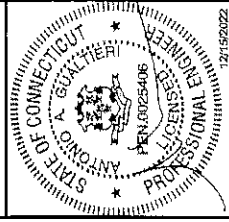


NO SCALE

NOT USED

1

3



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DATE: []

CONSTRUCTION DOCUMENTS

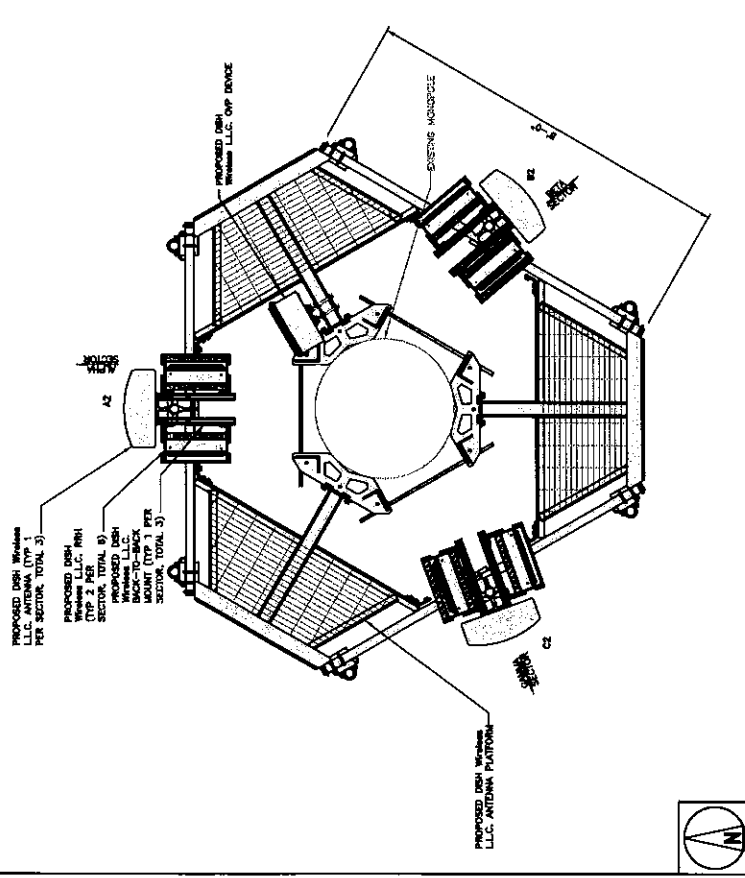
REV	DATE	DESCRIPTION
1	12/15/22	ISSUED FOR PERMITS

PROJECT NUMBER
10710.NJ101153A

PROJECT INFORMATION
DISH WIRELESS LLC
NJ101153A
80 COMMERCE DRIVE
TRUMBULL, CT 06611

SHEET TITLE
ELEVATION, ANTENNA
LAYOUT AND SCHEDULE

SHEET NUMBER
A-2



ANTENNA LAYOUT

SECTOR	POOL	EXISTING OR PROPOSED	ANTENNA MANUFACTURER - MODEL NUMBER	TECH	AZIMUTH	RAD CENTER	TRANSMISSION CABLE FEED LINE TYPE AND LENGTH	MANUFACTURER - MODEL NUMBER	RRH	TECH	POS	MANUFACTURER MODEL	OVP
A1		PROPOSED	JWA - M20P10008-21	50	0°	81'-0"	(1) HIGH-CAPACITY HYBRID CABLE (66' LONG)	FUJITSU - T400025-8004	50	A2	A2	EMC-9181-PP-4E	
A2		PROPOSED	JWA - M20P10008-21	50	0°	81'-0"	SHARED W/ALPHA	FUJITSU - T400025-8004	50	B2	B2	SHARED W/ALPHA	
A3		PROPOSED	JWA - M20P10008-21	50	140°	81'-0"	SHARED W/ALPHA	FUJITSU - T400025-8004	50	B2	B2	SHARED W/ALPHA	
A4		PROPOSED	JWA - M20P10008-21	50	280°	81'-0"	SHARED W/ALPHA	FUJITSU - T400025-8004	50	C2	C2	SHARED W/ALPHA	

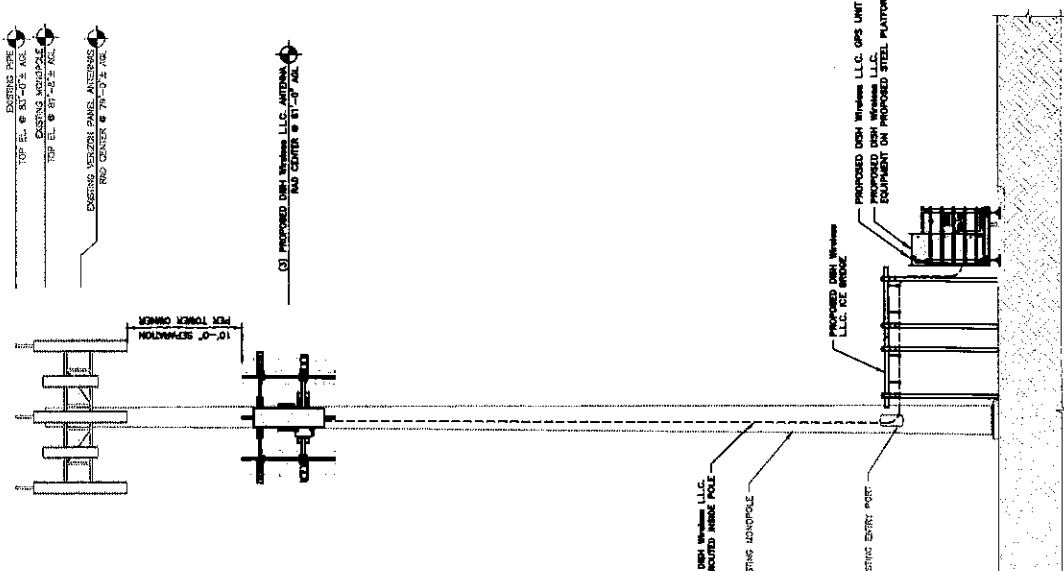
NOTES

- CONTRACTOR TO REFER TO FINAL CONSTRUCTION PERMITS FOR ALL RF DETAILS.
- ANTENNA AND RRH MODELS MAY CHANGE DUE TO EQUIPMENT AVAILABILITY. ALL EQUIPMENT CHANGES MUST BE APPROVED AND REMAIN IN COMPLIANCE WITH THE PROPOSED DESIGN AND STRUCTURAL ANALYSIS.
- AS-BUILTS ARE SUBJECT TO CHANGE AND MUST BE CONFIRMED WITH THE LATEST PERMITS PRIOR TO THE START OF CONSTRUCTION.

ANTENNA SCHEDULE

NOTES

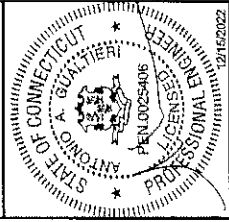
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
- ANTENNA AND RRH DISH SPECIFICATIONS REFER TO ANTENNA SCHEDULE AND TO FINAL CONSTRUCTION PERMITS FOR ALL RF DETAILS.
- REFER TO STRUCTURAL ANALYSIS REPORT BY SHAMAM ENGINEERING SOLUTIONS DATED 12/13/22.
- REFER TO WIND ANALYSIS REPORT BY TECTONIC DATED 12/09/22.



PROPOSED NORTH ELEVATION

NO SCALE

3

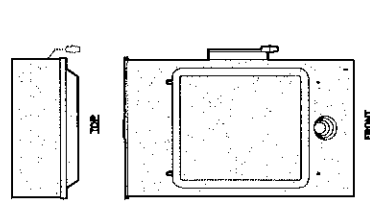


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DRAWN BY: CHECKED BY: APPROVED BY:
DATE: 12/15/2022

CONSTRUCTION DOCUMENTS

REV	DATE	DESCRIPTION
0	12/15/2022	ISSUED FOR PERMITS

AAE PROJECT NUMBER
10770.NJIER01153A
DISH WIRELESS LLC
PROJECT INFORMATION
NJIER01153A
60 COMMERCE DRIVE
TRUMBULL, CT 06611
SHEET TITLE
EQUIPMENT DETAILS
SHEET NUMBER
A-4

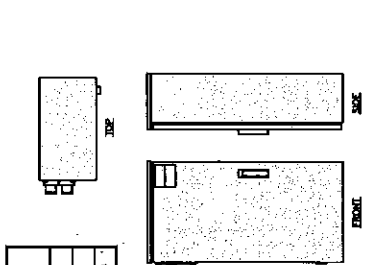


**SQUARE D SAFETY SWITCHES
D224HRB**

ENCLOSURE DIM (WxHxD)	20.25" x 16.0" x 5.50"
ENCLOSURE TYPE	NEHA 3R RAINPROOF
U.L. LISTED	FILE E-2875

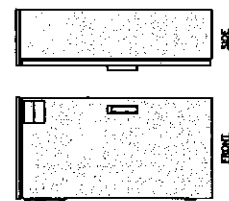


SAFETY SWITCH DETAIL NO SCALE 3

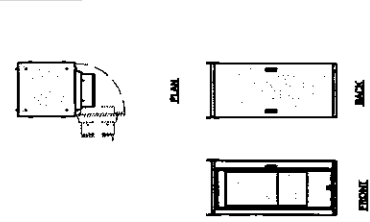


**RAYCAP PFC
RDIAC-2485-P-240-MTS**

ENCLOSURE DIMENSIONS (WxHxD)	38" x 22.85" x 12.285"
WEIGHT	80 lbs
OPERATING AC VOLTAGE	240V/120V 1 PHASE 3W/4W

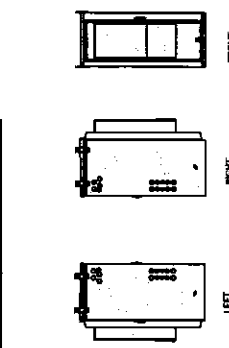


POWER PROTECTION CABINET (PFC) DETAIL NO SCALE 2

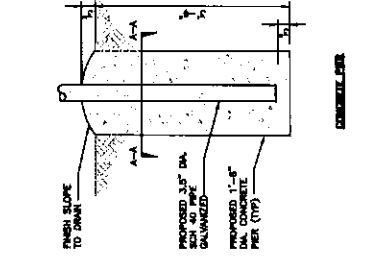
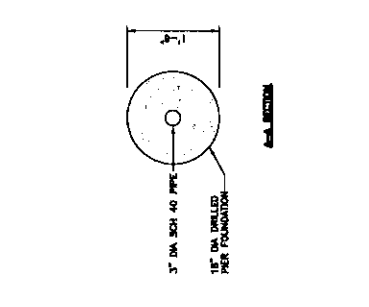


**DELTA ELECTRONICS, INC.
ESD4000-HC804 (HEX)**

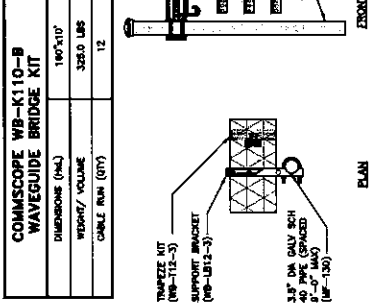
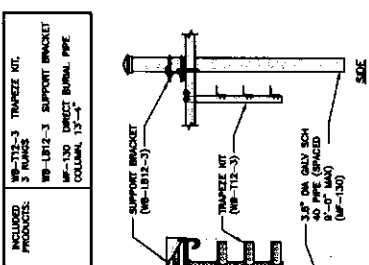
DIMENSIONS (WxHxD)	70" x 36" x 10"
WEIGHT (EMPTY)	420 lbs (approx.)



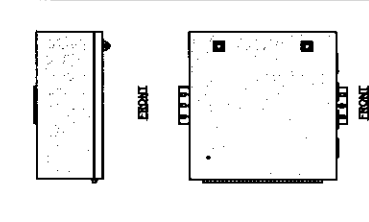
CABINET DETAIL NO SCALE 1



TYPICAL ICE BRIDGE CONCRETE PIER DETAIL NO SCALE 6

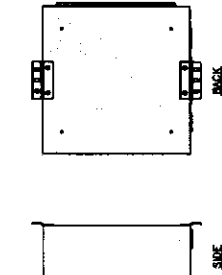


ICE BRIDGE DETAIL NO SCALE 5

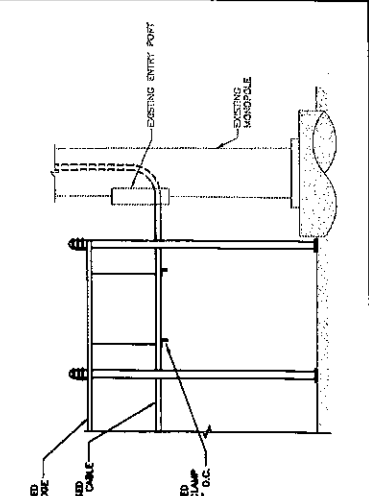
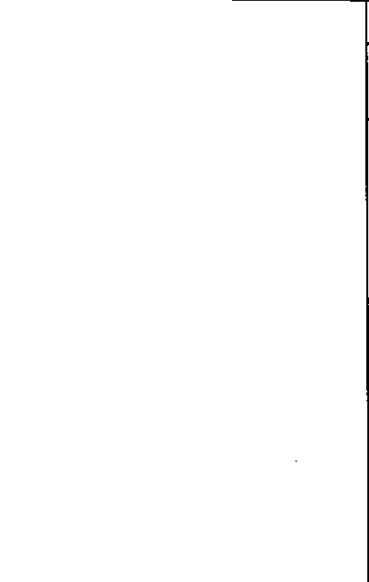
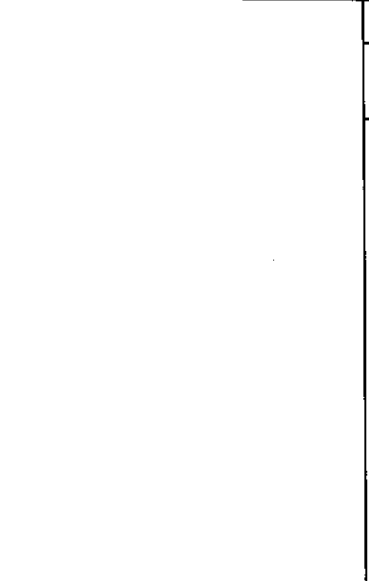


**CHARLES CFT-PF2020D5H1
FIBER TELCO ENCLOSURE**

ENCLOSURE DIMS (WxHxD)	20" x 20" x 40"
ENCLOSURE WEIGHT	20 lbs
MOUNTING	WALL
COMPLIANCE	TYPE 4



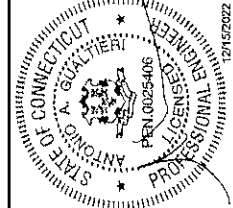
FIBER TELCO ENCLOSURE DETAIL NO SCALE 4



HYBRID CABLE RUN NO SCALE 7

HYBRID CABLE RUN NO SCALE 8

HYBRID CABLE RUN NO SCALE 9



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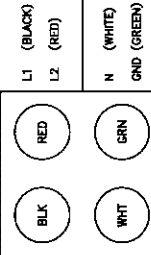
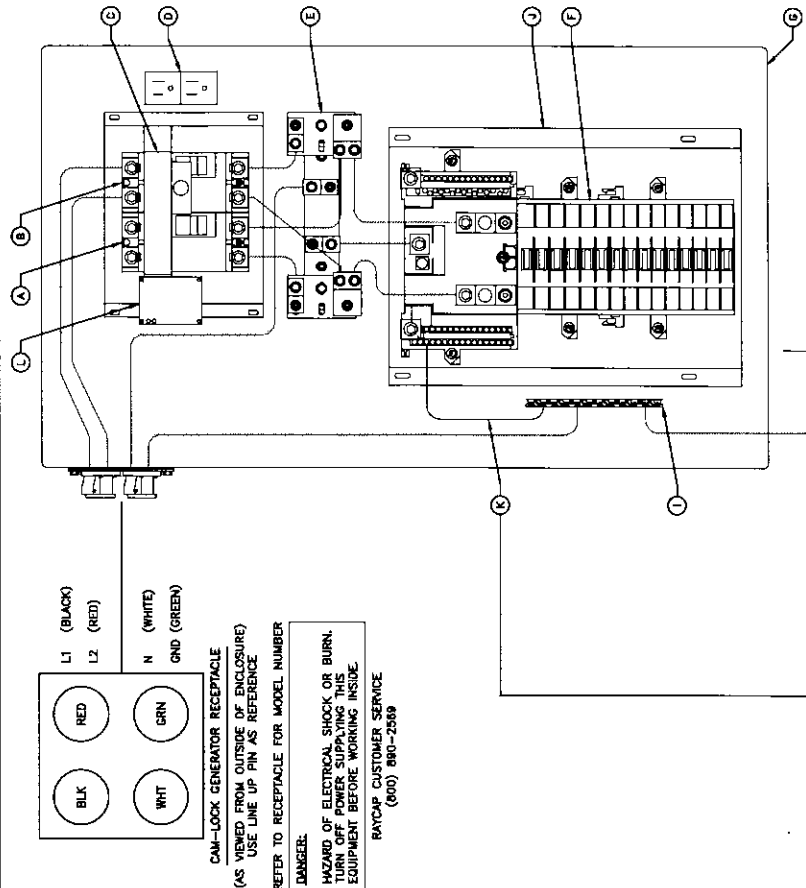
DRAWN BY: CHECKED BY: APPROVED BY: _____
DATE: _____
REVISED REV. #:

CONSTRUCTION DOCUMENTS

REV	DATE	DESCRIPTION	ISSUED FOR
1	10/15/22	ISSUED FOR PERMITS	

PROJECT NUMBER: 10710-NAJERO1153A
PROJECT INFORMATION: 60 COMMERCE DRIVE TRUMBULL, CT 06611

SHEET TITLE: PPC NEUTRAL-TO-GROUND SCHEMATIC
SHEET NUMBER: E-4



CAM-LOCK GENERATOR RECEPTACLE (AS VIEWED FROM OUTSIDE OF ENCLOSURE) USE LINE UP PIN AS REFERENCE.

DANGER:
HAZARD OF ELECTRICAL SHOCK OR BURN. TURN OFF POWER SUPPLYING THIS EQUIPMENT BEFORE WORKING INSIDE.
RAYCAP CUSTOMER SERVICE (800) 980-2569

NEUTRAL-TO-GROUND NOTES:

- WHEN THE PPC IS USED AS THE SERVICE ENTRANCE DEVICE, THE NEUTRAL TO GROUND BOND NEEDS TO BE ESTABLISHED IN THE PPC.
- WHEN THE SERVICE ENTRY DEVICE IS A METAL-METER CENTER (MTC) OR A METAL-CLAMP CENTER (MCC) WITH A "GROUND" ACCOMMODATION, THE NEUTRAL TO GROUND WIRE IN THE PPC IS NOT REQUIRED.
- THE GREEN #8 WIRE PROVIDED WITH THE PPC CABINET AS A SEPARATE UNINSTALLED PART TO BE INSTALLED BY CONTRACTOR IF NEEDED.

NEUTRAL-TO-GROUND, CONSUMER JUMPER:

INSTALLATION INSTRUCTIONS:

- IF REQUIRED, THE N-G BONDING KIT SHOULD BE INSTALLED BY QUALIFIED PERSONNEL.
- ENSURE THE BARS BREAKERS ARE OFF.
- USE THE GREEN #8 WIRE PROVIDED WITH THE PPC.
- INSTALL THE JUMPER AS SHOWN IN THE WIRING DIAGRAM.
- TIGHTEN TERMINALS TO TORQUE VALUE SHOWN IN TORQUE TABLE.
- PLACE THE PROVIDED "SERVICE" LABEL IN THE SPACE BELOW THE BONDING KIT. LOCATE THE LABEL IN THE MAIN CIRCUIT BREAKER IN THE UPPER PORTION OF THE USED SPACE.

- NOTES:**
- HAZARD OF ELECTRICAL SHOCK OR BURN. TURN OFF POWER SUPPLYING THIS EQUIPMENT BEFORE WORKING INSIDE.
 - 100 OR 200 AMP, 240 VOLTS, SINGLE PHASE ALTERNATING CURRENT CIRCUIT ONLY
 - GENERATOR SHORT CIRCUIT RATING: 10,000 / 20,000 AMPS RMS SYMMETRICAL, AMPERES AT 240 VOLTS
 - UTILITY SHORT CIRCUIT RATING: 85,000 AMPS RMS SYMMETRICAL, AMPERES AT 240 VOLTS
 - SUITABLE FOR USE AS SERVICE EQUIPMENT
 - BOUND NEUTRAL WHEN INSTALLED AS SHOWN IN WIRING DIAGRAM
 - RAIN PROOF TYPE 3R
 - USE CU-AL WIRE 60-75 °C
 - EQUIPPED WITH SLIDE BAR MECHANICAL INTERLOCK
 - INTERLOCK PROHIBITS BOTH POWER SOURCES FROM BEING IN THE ON POSITION SIMULTANEOUSLY
 - EQUIPPED WITH SQUARE D BREAKERS OR ALTERNATIVE MANUFACTURER EQUIVALENT
 - WHEN REPLACING LOAD CENTER BREAKERS, USE ONLY SQUARE D (OO TYPE) OF THE SAME RATING OR EQUIVALENT
 - WARNING: MAKE CONTINUITY CHECK WITH OHM METER TO VERIFY CORRECT PHASING AND GROUNDING CONNECTIONS BEFORE POWER UP
 - VERIFY PIN OUT CONFIGURATION OF GENERATOR PRIOR TO USE.
 - RISK OF ELECTRIC SHOCK, BOTH ENDS OF DISCONNECTING MEANS MAY BE ENERGIZED. TEST BEFORE SERVICING
 - THIS SWITCH BOARD MAY CONTAIN A TAP ON THE SERVICE SIDE OF THE MAIN POWER DISCONNECT FOR REMOTE MONITORING OF UTILITY/STANDBY POWER
 - THE NORMAL AC POWER MONITORING CIRCUIT MUST UTILIZE A DISCONNECTING MEANS WITH A SHORT CIRCUIT RATING GREATER THAN THE AVAILABLE INTERRUPTING CURRENT
 - A RED PUSH-TO-TRIP BUTTON PROVIDES A MEANS TO MECHANICALLY TRIP THE CIRCUIT BREAKER. THIS ACTION EXERCISES THE TRIPPING PORTION OF THE MECHANISM AND ALLOWS MAINTENANCE CHECK ON THE BREAKER

- CAUTION:**
- THE OPERATING HANDLE ASSUMES A CENTER POSITION WHEN THE CIRCUIT BREAKER IS TRIPPED
 - THE BREAKER CAN BE RESET BY OPERATING THE HANDLE TO THE EXTREME OFF POSITION AND THEN TO ON
 - SLIDE BAR MECHANICAL INTERLOCK TRANSFERS NORMAL AC POWER TO GENERATOR POWER. THE SLIDE BAR MECHANICAL INTERLOCK PROHIBITS BOTH POWER SOURCES FROM BEING IN THE ON POSITION SIMULTANEOUSLY
 - TO TRANSFER FROM ONE POWER SOURCE TO THE OTHER POWER SOURCE, SWITCH THE BREAKER TO THE OFF POSITION AND THE SWITCH THE OTHER BREAKER TO THE ON POSITION

RATINGS FOR USE AS SERVICE EQUIPMENT	
ELECTRICAL RATING 120/240 VOLTS SINGLE PHASE 50 Hz	
NORMAL AC POWER GENERATOR POWER 10000 20000	

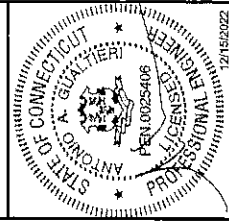
200A UTILITY FEED								
LOAD SIZE CIRCUIT BREAKERS		LINE SIZE MAIN CIRCUIT BREAKER						
MFR.	TYPE	POLES	AMP RATING	TRIP TYPE	TRIP RATING	VOLTS AC	PHASES	
SO-D	OO	2	15-100A	SO-D	OO	200A	240V	2

200A GENERATOR FEED								
LOAD SIZE CIRCUIT BREAKERS		LINE SIZE MAIN CIRCUIT BREAKER						
MFR.	TYPE	POLES	AMP RATING	TRIP TYPE	TRIP RATING	VOLTS AC	PHASES	
SO-D	OO	2	15-100A	SO-D	OO	200A	240V	2

THE SUPPLEMENTARY UTILITY MAIN BREAKER IS SUITABLE FOR USE ON CIRCUIT CAPABLE OF DELIVERING NOT MORE THAN 80,000 RMS SYMMETRICAL AMPS, 240 VOLTS MAXIMUM.

THE SUPPLEMENTARY GENERATOR POWER SOURCE IS SUITABLE FOR USE ON CIRCUIT CAPABLE OF DELIVERING NOT MORE THAN 10,000 RMS SYMMETRICAL AMPS, 240 VOLTS MAXIMUM.

NEUTRAL-TO-GROUND (N-G) BONDING KIT SHOULD BE INSTALLED BY QUALIFIED PERSONNEL. ENSURE THE BARS BREAKERS ARE OFF. USE THE GREEN #8 WIRE PROVIDED WITH THE PPC. INSTALL THE JUMPER AS SHOWN IN THE WIRING DIAGRAM. PLACE THE PROVIDED "SERVICE" LABEL IN THE SPACE BELOW THE BONDING KIT. LOCATE THE LABEL IN THE MAIN CIRCUIT BREAKER IN THE UPPER PORTION OF THE USED SPACE.



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TU JO

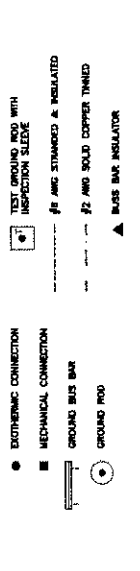
RDS REV #:

CONSTRUCTION DOCUMENTS

REV	DATE	DESCRIPTION
0	12/18/2022	ISSUED FOR PERMITS
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

PROJECT NUMBER: 10710-NJERO1153A
PROJECT INFORMATION: NJERO1153A
60 COMMERCE DRIVE
TRUMBULL, CT 06611

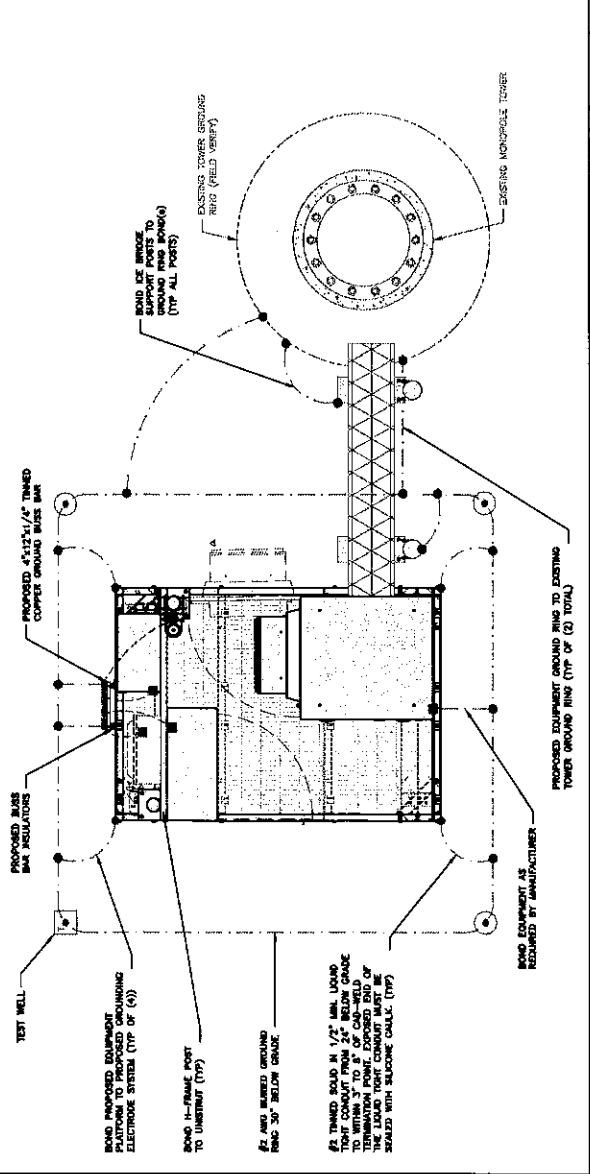
SHEET TITLE: GROUNDING PLANS AND NOTES
SHEET NUMBER: G-1



- GROUNDING IS SHOWN DIMENSIONALLY ONLY.
- CONTRACTOR SHALL GROUND ALL EQUIPMENT AS A COMPLETE SYSTEM. GROUNDING SHALL BE IN COMPLIANCE WITH NEC SECTION 250 AND DISH WIRELESS L.L.C. GROUNDING AND BONDING REQUIREMENTS AND MANUFACTURER'S SPECIFICATIONS.
- ALL GROUND CONDUCTORS SHALL BE COPPER; NO ALUMINUM CONDUCTORS SHALL BE USED.

GROUNDING KEY NOTES

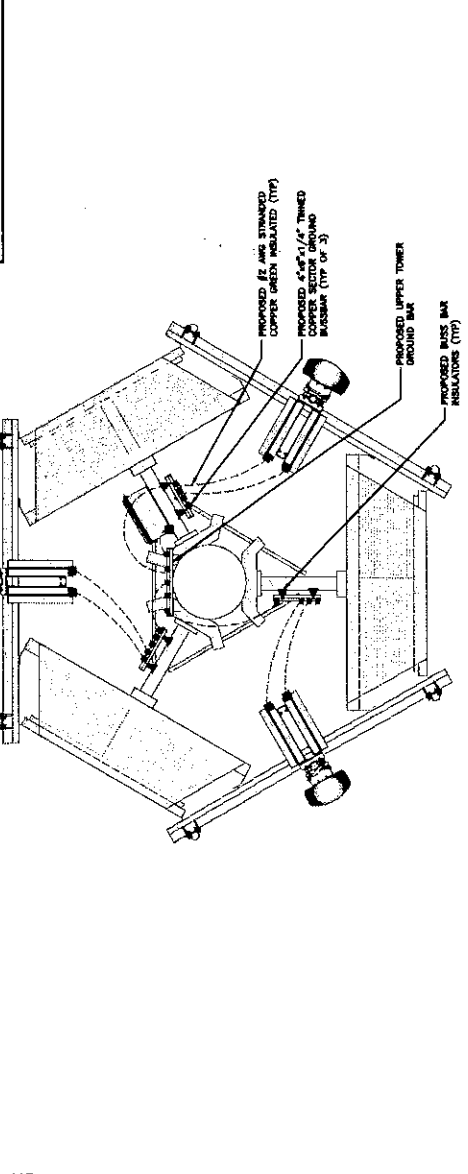
- EXTERIOR GROUND RING, #2 AWG SOLID COPPER, BORED AT A DEPTH OF AT LEAST 30 INCHES BELOW THE FINISH GRADE AND APPROXIMATELY 24 INCHES FROM THE EXTERIOR WALL ON FOOTING.
- INTERIOR GROUND RING, THE GROUND RING SYSTEM SHALL BE INSTALLED AROUND AN ANTENNA TOWER'S LEGS. AT LEAST TWO BONDS SHALL BE MADE BETWEEN THE TOWER AND GROUND SYSTEM AND THE BUILDING RING GROUND SYSTEM USING MINIMUM #2 AWG SOLID COPPER CONDUCTORS.
- WIRELESS EQUIPMENT SHALL BE GROUND TO THE INTERIOR GROUND RING USING #6 AWG STRANDED GREEN INSULATED COPPER CONDUCTORS EXTENDED AROUND THE PERIMETER OF THE EQUIPMENT. ALL CONDUCTORS SHALL BE CONNECTED TO THE INTERIOR GROUND RING WITH A SITE-SPECIFIC GROUNDING PLAN. ALL CONDUCTORS SHALL BE CONNECTED TO THE INTERIOR GROUND RING WITH #6 AWG STRANDED GREEN INSULATED CONDUCTOR.
- BOND TO INTERIOR GROUND RING, #2 AWG SOLID THINNED COPPER WIRE PRIMARY BONDS SHALL BE PROVIDED AT LEAST AT FOUR POINTS ON THE INTERIOR GROUND RING, LOCATED AT THE CORNERS OF THE BUILDING.
- GROUND ROD IN LISTED COPPER CLAD STEEL, MINIMUM 1/2" DIAMETER BY 60" FEET LONG, GROUND ROD SHALL BE INSTALLED WITH INSPECTION SLEEVE. GROUND RODS SHALL BE DRIVEN TO THE DEPTH OF GROUND RING CONDUCTOR.
- CELL REFERENCE GROUND BARS POINT OF GROUND REFERENCE FOR ALL COMMUNICATIONS EQUIPMENT FRAMES. ALL BONDS ARE MADE WITH #2 AWG UNLESS NOTED OTHERWISE. STRANDED GREEN INSULATED COPPER CONDUCTORS. BOND TO GROUND RING WITH (2) #2 SOLID THINNED COPPER CONDUCTORS.
- MATCH BARS GROUND BARS TO THE INTERIOR GROUND RING WITH TWO #2 AWG STRANDED BROWN INSULATED COPPER CONDUCTORS. WHEN A MATCH-PLATE AND A CELL REFERENCE GROUND BAR ARE BOTH PRESENT, THE CELL MUST BE CONNECTED TO THE MATCH-PLATE AND THE EXTERIOR GROUND RING USING (2) #2 AWG STRANDED GREEN INSULATED COPPER CONDUCTORS BARS.
- EXTERIOR CABLE ENTRY POINT GROUND BARS LOCATED AT THE ENTRANCE TO THE CELL SITE BUILDING. BOND TO GROUND RING WITH A #2 AWG SOLID THINNED COPPER CONDUCTORS WITH AN EXOTHERMIC WELD AND INSPECTION SLEEVE.
- TELECOM GROUND BARS TO BOTH CELL REFERENCE GROUND BAR OR EXTERIOR GROUND RING.
- FRAME BONDING THE BONDING POINT FOR TELECOM EQUIPMENT FRAMES SHALL BE THE GROUND BUS THAT IS NOT SEPARATE FROM THE EQUIPMENT'S METAL FRAMEWORK.
- EXTERIOR LIGHT FIXTURES, METAL FRAMES, CABINETS AND INDIVIDUAL METALLIC UNITS LOCATED WITHIN THE AREA OF THE BUILDING SHALL BE BOND TO THE EXTERIOR GROUND RING WITH #2 AWG STRANDED GREEN INSULATED COPPER CONDUCTORS AT AN INTERVAL NOT EXCEEDING 25 FEET. BONDS SHALL BE MADE AT EACH GATE POST AND ACCESS GATE OFFSHORE.
- EXTERIOR LIGHT FIXTURES, METALLIC OBJECTS, EXTERNAL TO OR RELATED TO THE BUILDING, SHALL BE BOND TO THE EXTERIOR GROUND RING USING #2 THINNED SOLID COPPER WIRE.
- EXTERIOR LIGHT FIXTURES, EACH ICE BRIDGE LED SHALL BE BOND TO THE GROUND RING WITH #2 AWG BARE GROUNDING CONDUCTOR. PROVIDE EXOTHERMIC WELDS AT BOTH THE ICE BRIDGE LED AND BARE GROUND RING.
- GROUND ALL POWER SYSTEMS, METAL FRAMES, METAL STRUCTURES, METAL ENCLOSURES, AND METALLIC UNITS TO GROUND SYSTEMS. ALL METALLIC UNITS SHALL BE BOND TO THE GROUND SYSTEM. ALL METALLIC UNITS SHALL BE BOND TO THE GROUND SYSTEM THROUGH THE METALLIC UNITS. ALL METALLIC UNITS SHALL BE BOND TO THE GROUND SYSTEM THROUGH THE METALLIC UNITS. ALL METALLIC UNITS SHALL BE BOND TO THE GROUND SYSTEM THROUGH THE METALLIC UNITS.
- TOWER TOP COLLECTOR BARS ARE TO BE MECHANICALLY BOND TO PROPOSED ANTENNA MOUNT COLLAR. REFER TO DISH WIRELESS L.L.C. GROUNDING NOTES.



NO SCALE

NOTES

- ANTENNAS AND OPS SHOWN ARE GENERIC AND NOT REFERENCING TO A SPECIFIC MANUFACTURER. THE LAYOUT IS FOR REFERENCE ONLY.



NO SCALE

NOTES

- ANTENNAS AND OPS SHOWN ARE GENERIC AND NOT REFERENCING TO A SPECIFIC MANUFACTURER. THE LAYOUT IS FOR REFERENCE ONLY.

TYPICAL ANTENNA GROUNDING PLAN

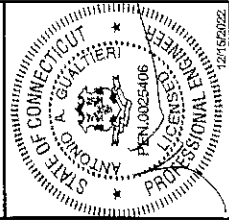
NO SCALE

GROUNDING KEY NOTES

- REFER TO DISH WIRELESS L.L.C. GROUNDING NOTES.

NO SCALE

G-1



IT IS A VIOLATION OF LAW FOR ANY PERSON TO REPRODUCE OR TRANSMIT THIS DOCUMENT IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER.

DRAWN BY: CHECKED BY: APPROVED BY:
TU JAS
RFD'S REV #:

CONSTRUCTION DOCUMENTS

REV	DATE	DESCRIPTION
1		ISSUED FOR PERMITS

AKA PROJECT NUMBER
10710.NJ.JERO1153A

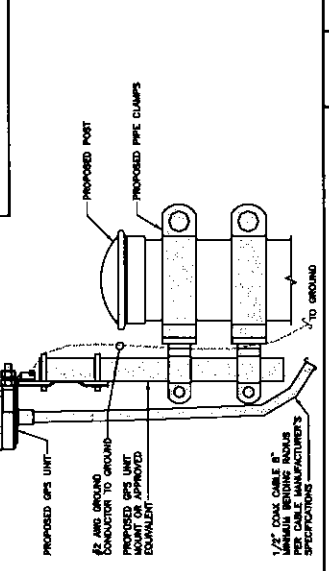
DISH WIRELESS LLC
PROJECT INFORMATION
NJ.JERO1153A

60 COMMERCE DRIVE
TRUMBULL, CT 06611

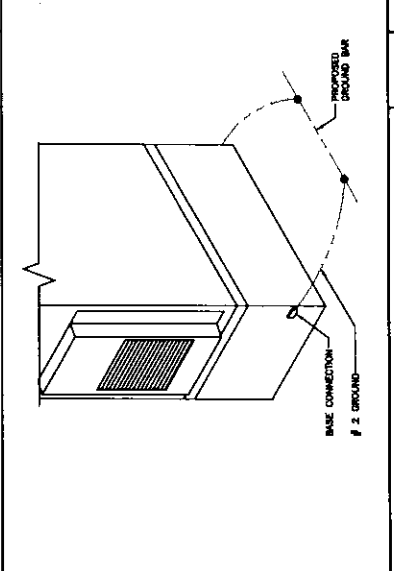
SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER
G-2

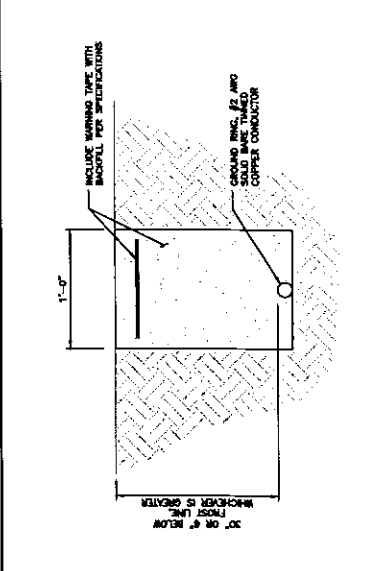
NOTES
CABLE GROUNDING NOT REQUIRED WHEN ANTENNA IS LESS THAN 10' FROM CABINET



TYPICAL GPS UNIT GROUNDING
NO SCALE

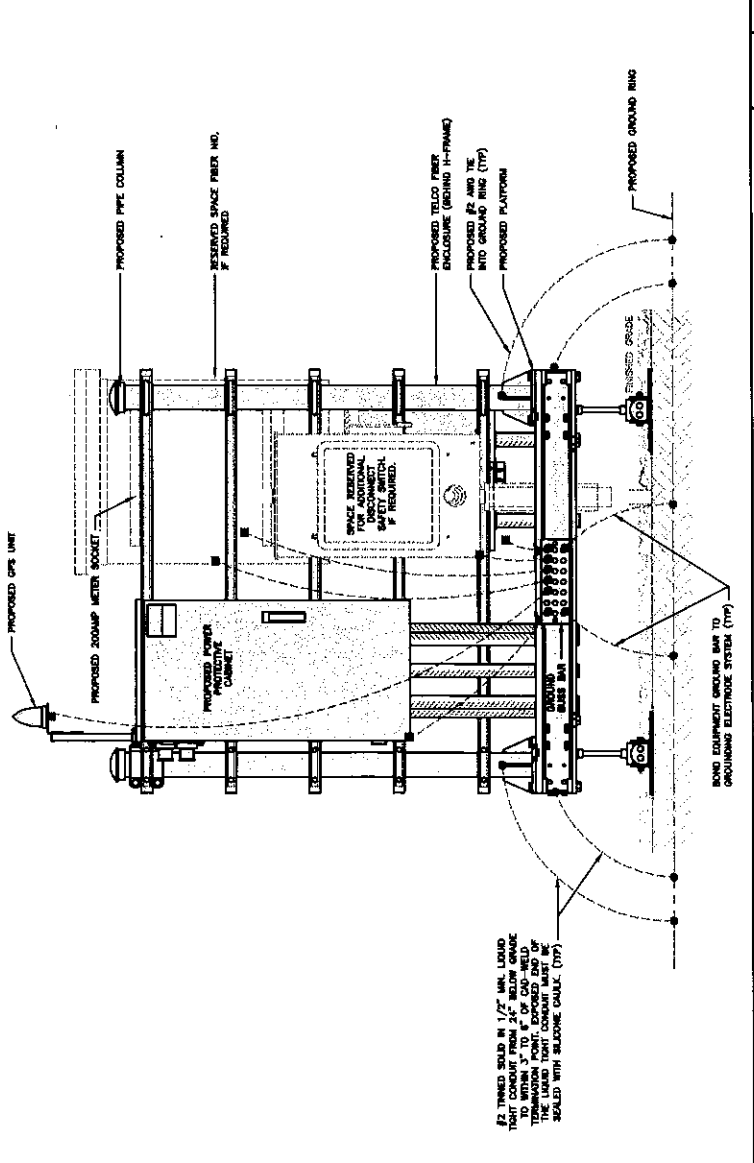


OUTDOOR CABINET GROUNDING
NO SCALE

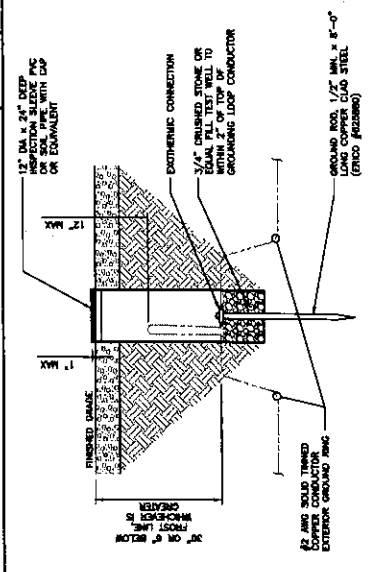


TYPICAL GROUND RING TRENCH
NO SCALE

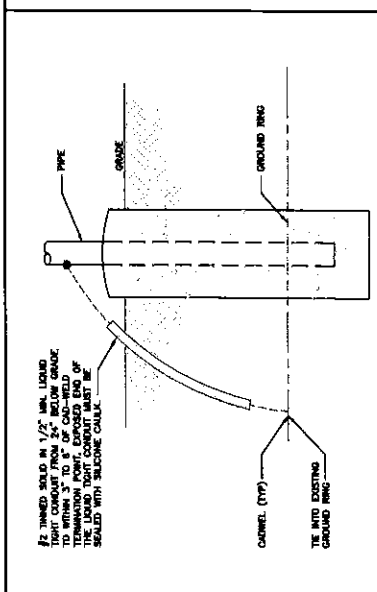
NOTES
EQUIPMENT CABINET OMITTED FOR CLARITY



DETAIL NOT USED
NO SCALE



TYPICAL TEST GROUND ROD WITH INSPECTION SLEEVE
NO SCALE



TRANSITIONING GROUND DETAIL
NO SCALE

#2 TINED SOLD IN 1/2" MIN. LIQUID TIGHT CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CRO-WELD. THE LIQUID TIGHT CONDUIT MUST BE SEALED WITH SILICONE GULK.

#2 TINED SOLD IN 1/2" MIN. LIQUID TIGHT CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CRO-WELD. THE LIQUID TIGHT CONDUIT MUST BE SEALED WITH SILICONE GULK.

REV	DATE	DESCRIPTION	SUBMITTALS
1	12/15/22	ISSUED FOR PERMITS	

INFORMATION

This is an access point to an area with transmitting antennas.

Obey all signs and barriers beyond this point.
Call the DISH Wireless L.L.C. NOC at 1-866-624-6874

Site ID: _____



THIS SIGN IS FOR REFERENCE PURPOSES ONLY

SIGN TYPES	
TYPE	COLOR CODE PURPOSE
INFORMATION	GREEN
NOTICE	BLUE
CAUTION	YELLOW
WARNING	ORANGE/RED

RF SIGNAGE SHALL FOLLOW THE RECOMMENDATIONS OF AN EXISTING EME REPORT, CREATED BY A THIRD PARTY PREVIOUSLY AUTHORIZED BY DISH WIRELESS L.L.C.

INFORMATION SIGN (GREEN) SHALL BE LOCATED ON EXISTING DISH WIRELESS L.L.C. EQUIPMENT.

IF THE INFORMATION SIGN IS A SIGN, IT SHALL BE PLACED ON EXISTING DISH WIRELESS L.L.C. EQUIPMENT WITH A SECURE ATTACH METHOD.

IF THE INFORMATION SIGN IS A SIGN, IT SHALL BE PLACED ON EXISTING DISH WIRELESS L.L.C. EQUIPMENT WITH A SECURE ATTACH METHOD.

IF THE INFORMATION SIGN IS A SIGN, IT SHALL BE PLACED ON EXISTING DISH WIRELESS L.L.C. EQUIPMENT WITH A SECURE ATTACH METHOD.

IF THE INFORMATION SIGN IS A SIGN, IT SHALL BE PLACED ON EXISTING DISH WIRELESS L.L.C. EQUIPMENT WITH A SECURE ATTACH METHOD.

- NOTES:**
- FOR DISH WIRELESS L.L.C. LOGO, SEE DISH WIRELESS L.L.C. DESIGN SPECIFICATIONS (PROVIDED BY DISH WIRELESS L.L.C.)
 - SITE IS TO BE PLACED ON SIGNS USING "LASER ENGRAVING" OR ANY OTHER WEATHER RESISTANT METHOD (DISH WIRELESS L.L.C. APPROVAL REQUIRED)
 - TEXT FOR SIGNS SHALL INDICATE CORRECT SITE NAME AND NUMBER AS PER DISH WIRELESS L.L.C. CONSTRUCTION MANAGER RECOMMENDATIONS.
 - CABINET/SHIELDER MOUNTING APPLICATION REQUIRES ANOTHER PLATE APPLIED TO THE FACE OF THE CABINET WITH WATER PROOF POLYURETHANE ADHESIVE
 - ALL SIGNS WILL BE REQUIRED WITH EITHER STAINLESS STEEL ZIP TIES OR STAINLESS STEEL TECH SCREWS
 - ALL SIGNS TO BE 8.5"X11" AND MADE WITH 0.04" OF ALUMINUM MATERIAL.

NOTICE



Transmitting Antenna(s)
Radio frequency fields beyond this point MAY EXCEED the FCC Occupational exposure limit.

Obey all posted signs and site guidelines for working in radio frequency environments.

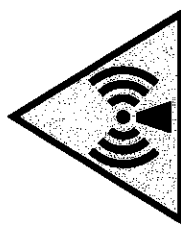
Call the DISH Wireless L.L.C. NOC at 1-866-624-6874 prior to working beyond this point.

Site ID: _____



THIS SIGN IS FOR REFERENCE PURPOSES ONLY

CAUTION



Transmitting Antenna(s)
Radio frequency fields beyond this point MAY EXCEED the FCC Occupational exposure limit.

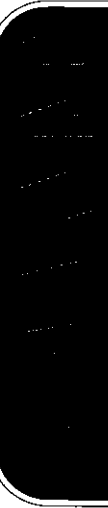
Obey all posted signs and site guidelines for working in radio frequency environments.

Call the DISH Wireless L.L.C. NOC at 1-866-624-6874 prior to working beyond this point.

Site ID: _____



THIS SIGN IS FOR REFERENCE PURPOSES ONLY



Transmitting Antenna(s)
Radio frequency fields beyond this point EXCEED the FCC Occupational exposure limit.

Obey all posted signs and site guidelines for working in radio frequency environments.

Call the DISH Wireless L.L.C. NOC at 1-866-624-6874 prior to working beyond this point.

Site ID: _____



THIS SIGN IS FOR REFERENCE PURPOSES ONLY

Exhibit D
Structural Analysis



Structural Analysis Report

Prepared for:

KGI

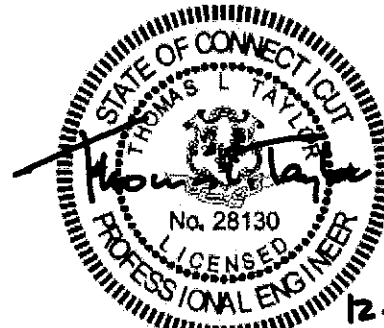
805 Las Cimas Parkway, Building Three, Suite 370
Austin, TX 78746

ATTN: Ms. Jacquie Cossey

Structure : 81 ft Monopole
Site ID : 23393
Proposed Carrier : Dish Wireless
Site Name : Trumbull SE 4
Site Location : 60 Commerce Drive
Trumbull, CT
41.2456, -73.1456
County : Fairfield
Date : December 13, 2022
Max Structure Usage : 44%
Max Foundation Usage : 52%
Result : Pass

Prepared By:
Trevor Kuper, E.I.T.
Structural Engineer

A handwritten signature in black ink, appearing to read 'Trevor Kuper'.



12-13-22

EXP. 01/31/2023
COA: PEC.0001536
EXP. 08/04/2023

Thomas
L. Taylor

Digitally signed
by Thomas L.
Taylor
Date: 2022.12.13
12:29:42 -06'00'



Table of Contents

Introduction -----	1
Supporting Documents -----	1
Analysis -----	1
Conclusion -----	1
Existing and Reserved Equipment-----	2
Equipment to be Removed -----	2
Proposed Equipment -----	2
Structure Usages -----	3
Foundations -----	3
Standard Conditions -----	4
Calculations -----	Attached

Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 81 ft Monopole to reflect the change in loading by Dish Wireless.

Supporting Documents

Tower Drawing	Engineered Endeavors Drawing # 17314-E01-S1, dated October 22, 2014
Foundation Drawing	Centek Job # 14006.163, dated March 31, 2015
Geotechnical Report	Associated Borings Project Name Cell Tower 60 Commerce Dr., dated July 29, 2014
Proposed Loading	KGI/Dish Wireless TLF, dated December 30, 2021

Analysis

The tower was analyzed using TNX tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

Basic Wind Speed	120 mph (3-Second Gust) Vult
Basic Wind Speed w/Ice	47 mph (3-Second Gust) w/ 1.02" radial ice concurrent
Code	ANSI/TIA-222-H / 2021 IBC / 2022 Connecticut State Building Code
Risk Category	II
Exposure Category	C
Topographic Category	1
Crest Height	0 ft
Spectral Response	Ss = 0.12 , S1 = 0.17
Site Class	B - Competent Rock
Ground Elevation	168.03 ft

Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

If you have any questions or require additional information, please contact Semaan Engineering Solutions at 402-289-1888.

Existing and Reserved Equipment

This loading **is** included in the analysis.

Centerline Elevation (ft)		Qty.	Antenna	Mount Type	Coax (in)	Carrier
Mount	Equip.					
80.0	80.0	12	BXA-70080/8CF	(1) 14' Modified Platform w/ Rails	(12) 1 5/8" (4) 1 5/8" Hybrid Cable	Verizon
		12	RRUS A2 Modules			
		12	TMA 10"x7"x2"			
		6	RRH 3JR52709AA 2X60 (AWS 60W)			
		4	OVP Box			
		3	RRH 4X30-4T4R-B13			
		3	RRH 4x30-4T4R-B25			

Equipment to be Removed

This loading **is not** included in the analysis.

Centerline Elevation (ft)		Qty.	Antenna	Mount Type	Coax (in)	Carrier
Mount	Equip.					
No loading considered as to be removed						

Proposed Equipment

This loading **is** included in the analysis.

Centerline Elevation (ft)		Qty.	Antenna	Mount Type	Coax (in)	Carrier
Mount	Equip.					
61.0	61.0	3	MX08FRO665-21	(1) Commscope MC-PK8-DSH Snub Nose Platform w/Rail	(1) Hybrid	Dish Wireless
		3	TA08025-B604			
		3	TA08025-B605			
		1	RDIDC-9181-PF-48			

Install proposed coax inside the pole shaft.

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Shaft	44%	Pass
Anchor Bolts	38%	Pass
Baseplate	32%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Moment (Kips-Ft)	1,062.3	48%
Axial (Kips)	20.2	N/A
Shear (Kips)	16.4	N/A
Reinf. Conc. Fnd. Capacity	N/A	52%

The structure base reactions resulting from this analysis were found to be acceptable through analysis based on geotechnical and foundation information, therefore no modification or reinforcement of the foundation will be required.



Standard Conditions

All engineering services are performed on the basis that the information used is current and correct. This information may consist of, but is not necessary limited, to:

- Information supplied by the client regarding the structure itself, antenna, mounts and feed line loading on the structure and its components, or other relevant information.

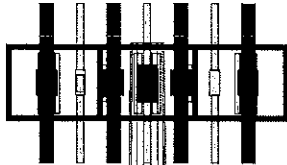
- Information from drawings in the possession of Semaan Engineering Solutions, or generated by field inspections or measurements of the structure.

It is the responsibility of the client to ensure that the information provided to Semaan Engineering Solutions Holdings and used in the performance of our engineering services is correct and complete. In the absence of information to the contrary, we assume that all structures were constructed in accordance with the drawings and specifications and that their capacity has not significantly changed from the "as new" condition.

Unless explicitly agreed by both the client and Semaan Engineering Solutions, all services will be performed in accordance with the current revision of ANSI/TIA -222. The design basic wind speed will be determined based on the minimum basic wind speed as prescribed in ANSI/TIA-222. Although every effort is taken to ensure that the loading considered is adequate to meet the requirements of all applicable regulatory entities, we can provide no assurance to meet any other local and state codes or requirements. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes, the client shall specify the exact requirement.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Semaan Engineering Solutions Holdings is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.

82.0 ft



MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

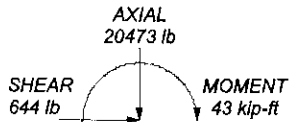
1. Tower is located in Fairfield County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 120 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 47 mph basic wind with 1.02 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. CCISeismic Note: Seismic loads generated by CCISeismic 3.3.6
9. CCISeismic Note: Seismic calculations are in accordance with TIA-222-H-1
10. TOWER RATING: 43.7%

Section									
Length (ft)	42.63								
Number of Sides	18								
Thickness (in)	0.31								
Socket Length (ft)	4.25								
Top Dia (in)	20.72								
Bot Dia (in)	29.99								
Grade	A572-65								
Weight (lb)	3603.0								

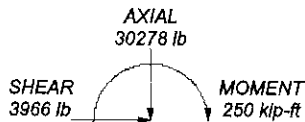
39.4 ft

1.0 ft

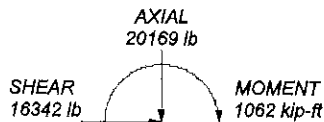
ALL REACTIONS ARE FACTORED



TORQUE 0 kip-ft
SEISMIC



TORQUE 0 kip-ft
47 mph WIND - 1.02 in ICE



TORQUE 0 kip-ft
REACTIONS - 120 mph WIND

Semaan Engineering Solutions, LLC

1047 S. 205th St.
Elkhorn, NE, 68022
Phone: (402)-289-1888
FAX: (402)-289-1861

Job: **23393_Trumbull**

Project: **REV01B**

Client: **KGI**

Drawn by: **TrevorK**

App'd:

Code: **TIA-222-H**

Date: **12/13/22**

Scale: **N**

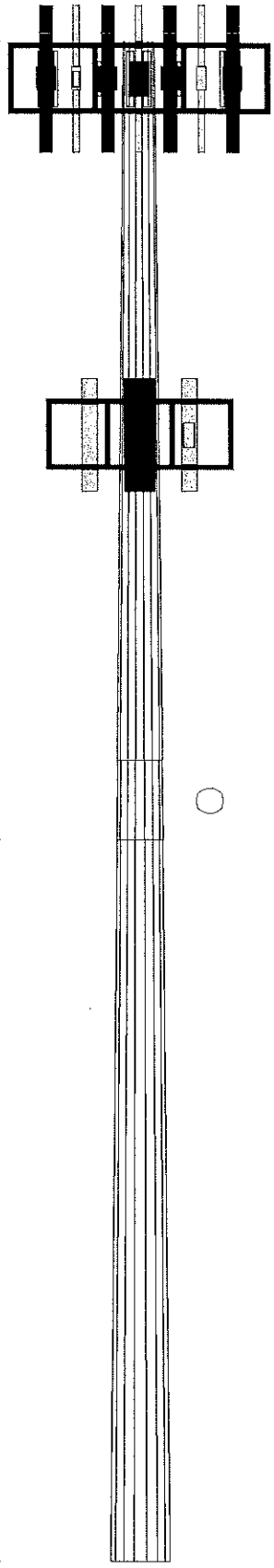
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\\DMZSESSERVER01\Common\TXN files\23393\REV01B\23393_REV01B.dwg

Dwg No.

Section									
Length (ft)	42.63								
Number of Sides	18								
Thickness (in)	0.31								
Socket Length (ft)	4.25								
Top Dia (in)	20.72								
Bot Dia (in)	29.99								
Grade	A572-65								
Weight (lb)	3803.0								

82.0 ft



39.4 ft

1.0 ft

DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
14' Modified Platform w/ Rail w/o Mount Pipes (Verizon)	80	(4) TMA 10"x7"x2" (Verizon)	80
(4) BXA-70080/8CF w/8' Mount Pipe (Verizon)	80	(4) RRRUS A2 Modules (Verizon)	80
(4) BXA-70080/8CF w/8' Mount Pipe (Verizon)	80	(4) RRRUS A2 Modules (Verizon)	80
(4) BXA-70080/8CF w/8' Mount Pipe (Verizon)	80	(4) RRRUS A2 Modules (Verizon)	80
(4) BXA-70080/8CF w/8' Mount Pipe (Verizon)	80	PLK5 Kicker (Verizon)	78
(4) BXA-70080/8CF w/8' Mount Pipe (Verizon)	80	PLK7 Collar Mount (Verizon)	76
OVP Box (Verizon)	80	Commscope MC-PK8-DSH Snub Nose Platform w/Rail w/o Mount Pipe (SES) (Dish Wireless)	61
OVP Box (Verizon)	80	MX08FRO665-21 w/8' Mount Pipe (Dish Wireless)	61
(2) OVP Box (Verizon)	80	MX08FRO665-21 w/8' Mount Pipe (Dish Wireless)	61
(2) RRH 3JR52709AA 2X60 (AWS 60W) (Verizon)	80	MX08FRO665-21 w/8' Mount Pipe (Dish Wireless)	61
(2) RRH 3JR52709AA 2X60 (AWS 60W) (Verizon)	80	MX08FRO665-21 w/8' Mount Pipe (Dish Wireless)	61
(2) RRH 3JR52709AA 2X60 (AWS 60W) (Verizon)	80	TA08025-B604 (Dish Wireless)	61
RRH 4X30-4T4R-B13 (Verizon)	80	TA08025-B604 (Dish Wireless)	61
RRH 4X30-4T4R-B13 (Verizon)	80	TA08025-B604 (Dish Wireless)	61
RRH 4X30-4T4R-B13 (Verizon)	80	TA08025-B605 (Dish Wireless)	61
RRH 4x30-4T4R-B25 (Verizon)	80	TA08025-B605 (Dish Wireless)	61
RRH 4x30-4T4R-B25 (Verizon)	80	TA08025-B605 (Dish Wireless)	61
RRH 4x30-4T4R-B25 (Verizon)	80	TA08025-B605 (Dish Wireless)	61
(4) TMA 10"x7"x2" (Verizon)	80	RDIDC-9181-PF-48 (Dish Wireless)	61
(4) TMA 10"x7"x2" (Verizon)	80	(2) 8"x2" Pipe (Dish Wireless)	61
		(2) 8"x2" Pipe (Dish Wireless)	61



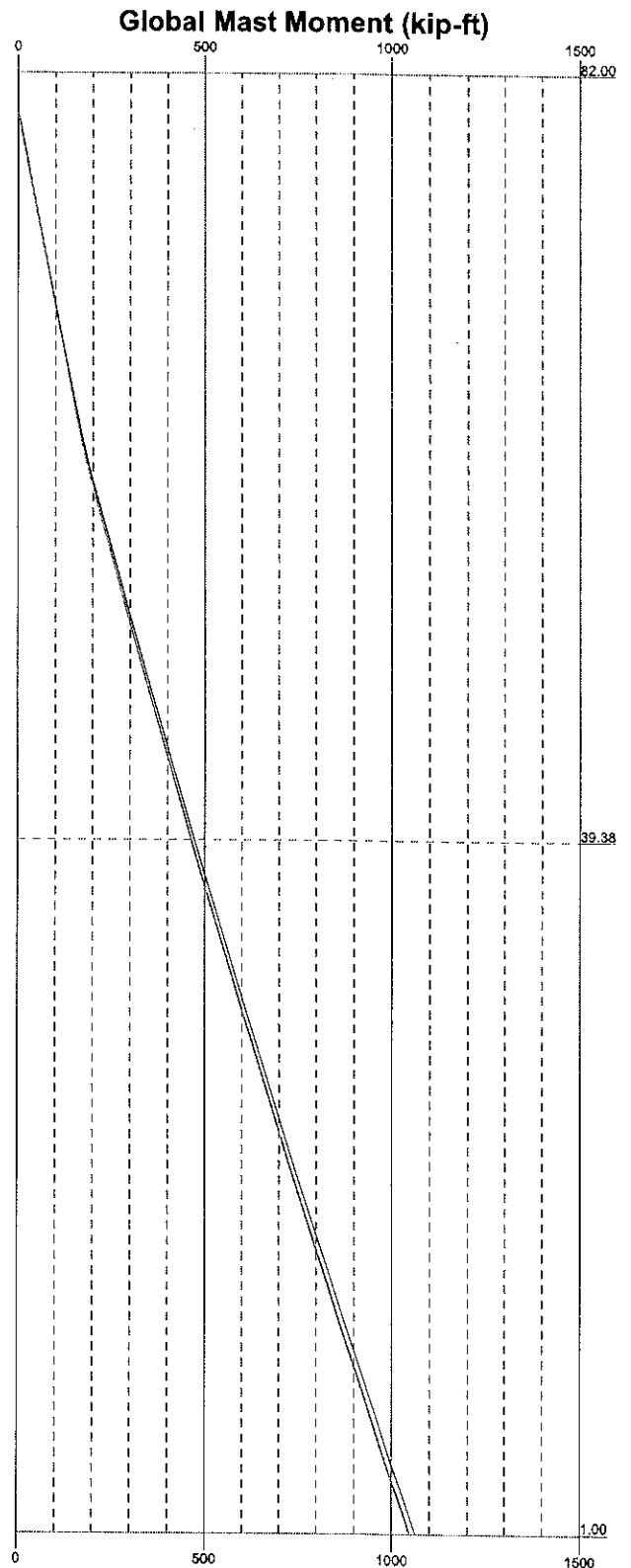
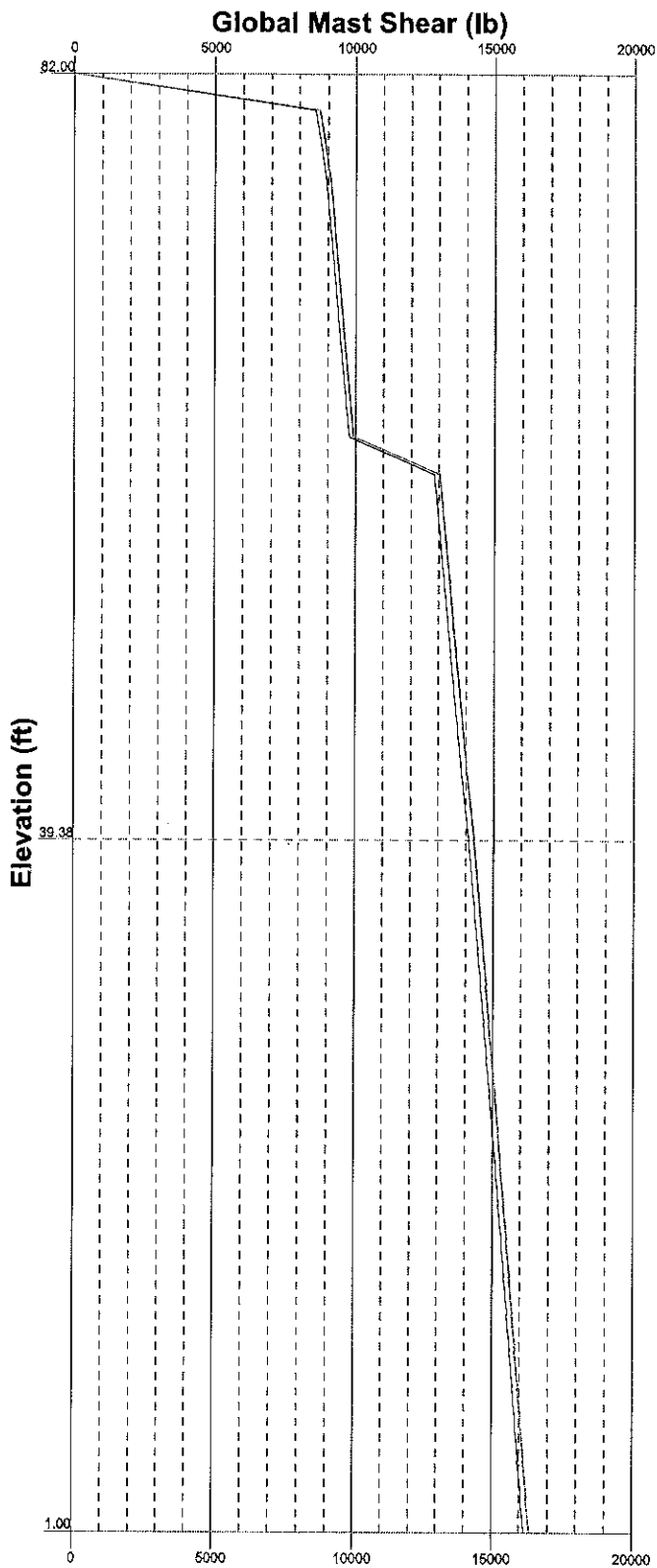
<p>Semaan Engineering Solutions, LLC 1047 S. 205th St. Elkhorn, NE, 68022 Phone: (402)-289-1888 FAX: (402)-289-1861</p>		<p>Job: 23393 Trumbull</p>		
		<p>Project: REV01B</p>	<p>Client: KGI</p>	<p>Drawn by: TrevorK</p>
		<p>Code: TIA-222-H</p>	<p>Date: 12/13/22</p>	<p>Scale: 1"</p>
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Vx

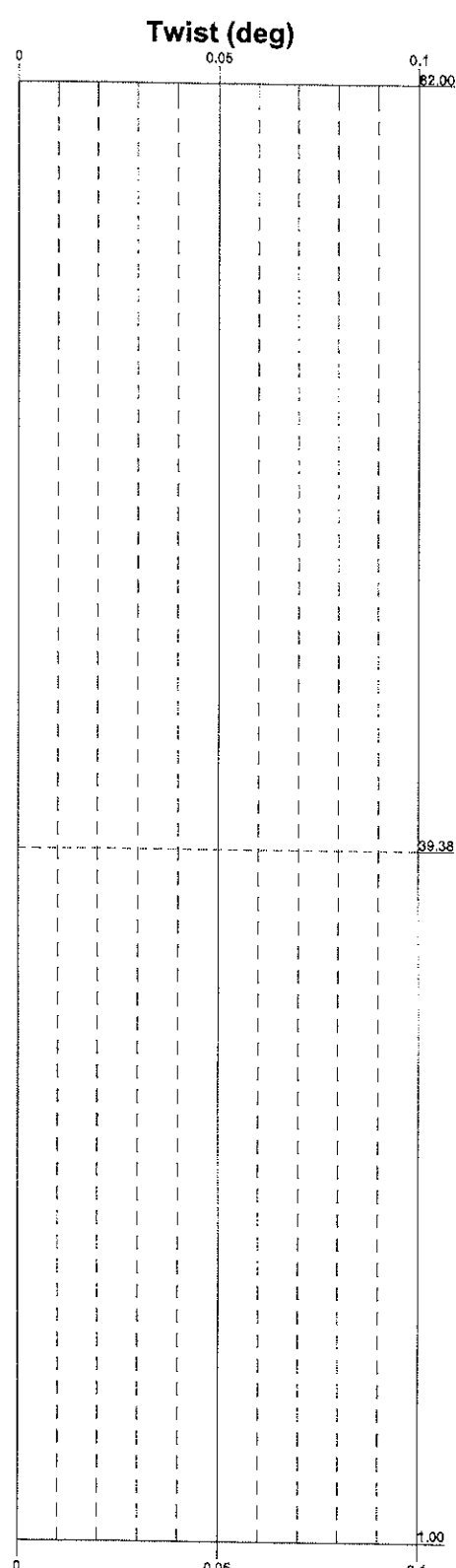
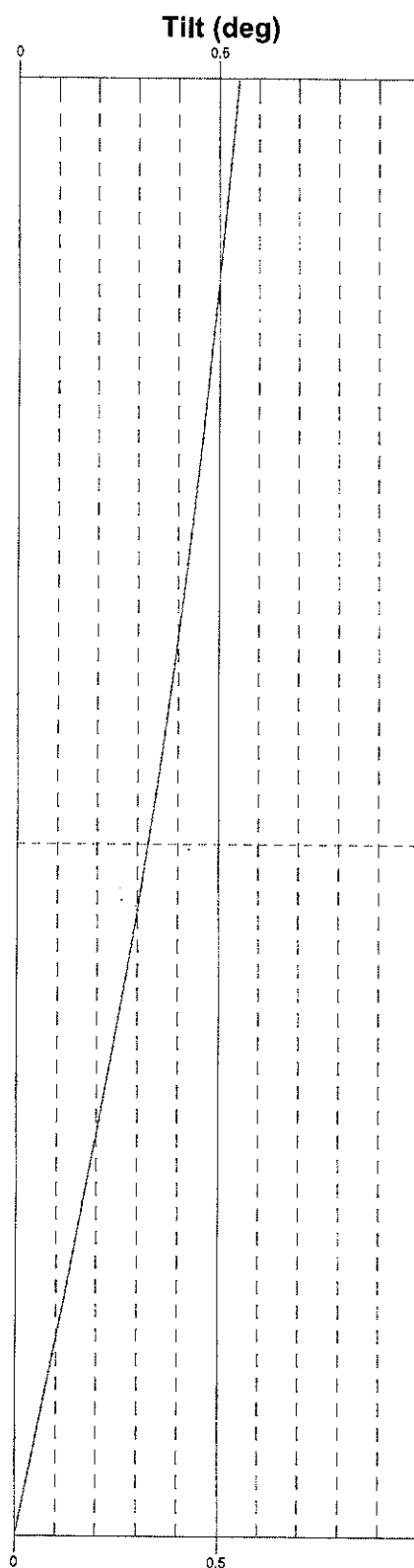
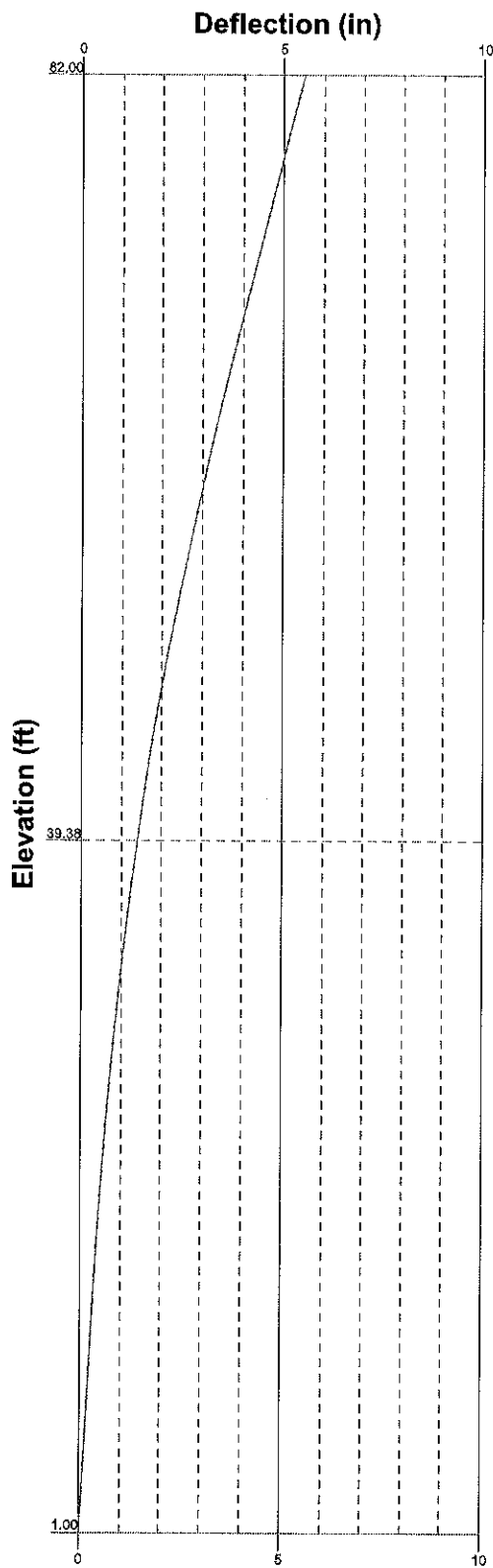
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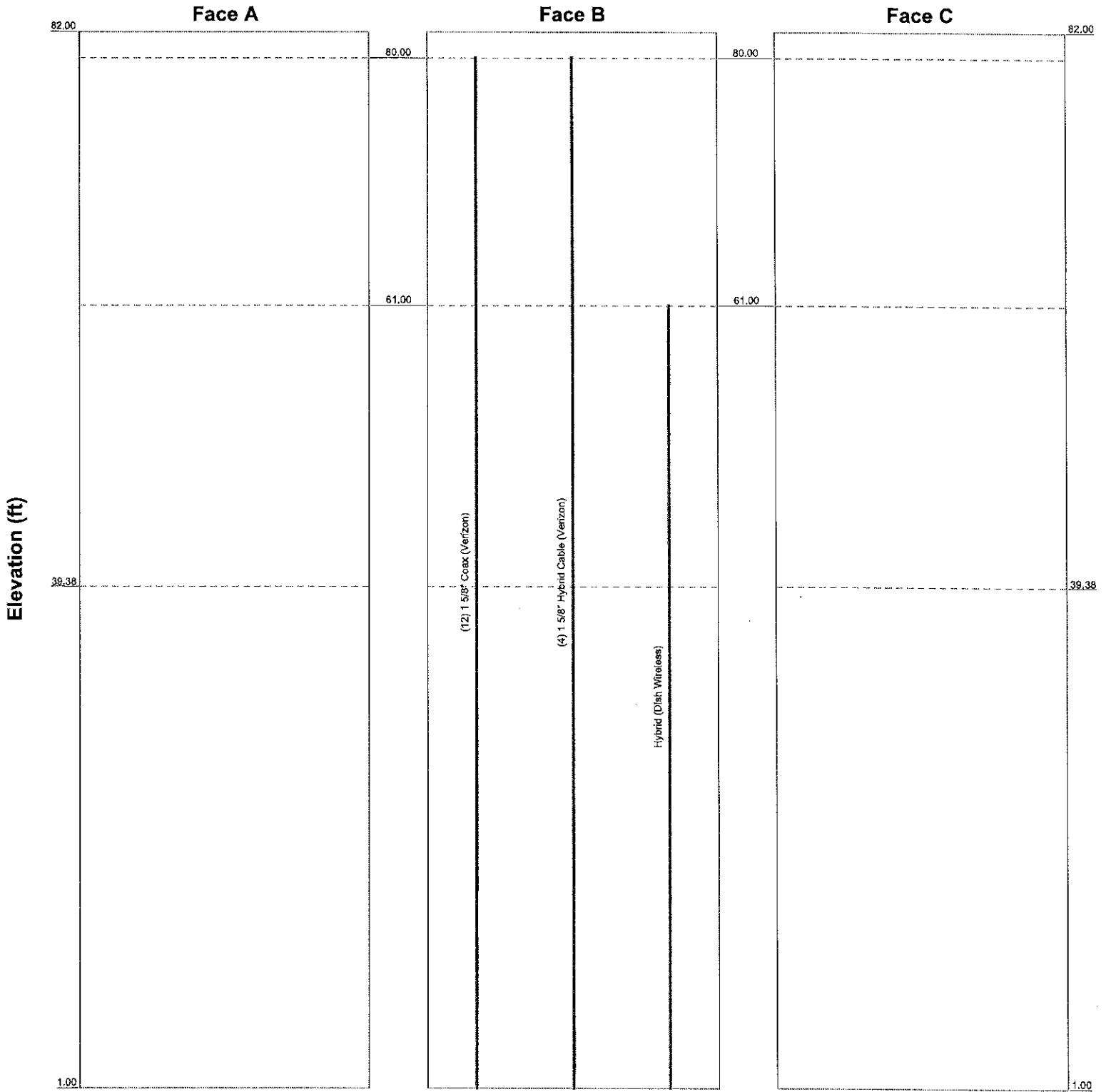
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<p>Semaan Engineering Solutions, LLC 1047 S. 205th St. Elkhorn, NE, 68022 Phone: (402)-289-1888 FAX: (402)-289-1861</p>		Job: 23393_Trumbull	
		Project: REV01B	
Client: KGI		Drawn by: TrevorK	App'd:
Code: TIA-222-H		Date: 12/13/22	Scale: N
Path: \\D:\ZSESS\SERVER01\Commen\TX files\23393\REV01B\23393_REV01B.dwg		Dwg No.	



Semaan Engineering Solutions, LLC			Job: 23393_Trumbull		
1047 S. 205th St. Elkhorn, NE, 68022 Phone: (402)-289-1888 FAX: (402)-289-1861			Project: REV01B		
Client: KGI		Drawn by: Trevork		App'd:	
Code: TIA-222-H		Date: 12/13/22		Scale: N	
Path: \\DMZSESSERVER01\Corporat\INX_files\23393\REV01B\23393_REV01B.ed			Dwg No.		



Semaan Engineering Solutions, LLC

1047 S. 205th St.
Elkhorn, NE, 68022
Phone: (402)-289-1888
FAX: (402)-289-1861

Job: **23393_Trumbull**

Project: **REV01B**

Client: KGI

Drawn by: Trevork

App'd:

Code: TIA-222-H

Date: 12/13/22

Scale: N

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Dwg No.

tnxTower Semaan Engineering Solutions, LLC 1047 S. 205th St. Elkhorn, NE, 68022 Phone: (402)-289-1888 FAX: (402)-289-1861	Job 23393_Trumbull	Page 1 of 24
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Tower Input Data

The tower is a monopole.

This tower is designed using the TIA-222-H standard.

The following design criteria apply:

- Tower is located in Fairfield County, Connecticut.
- Tower base elevation above sea level: 169.03 ft.
- Basic wind speed of 120 mph.
- Risk Category II.
- Exposure Category C.
- Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- Topographic Category: 1.
- Crest Height: 0.00 ft.
- Nominal ice thickness of 1.02 in.
- Ice thickness is considered to increase with height.
- Ice density of 56 pcf.
- A wind speed of 47 mph is used in combination with ice.
- Deflections calculated using a wind speed of 60 mph.
- CCISEismic Note: Seismic loads generated by CCISEismic 3.3.6.
- CCISEismic Note: Seismic calculations are in accordance with TIA-222-H-1.
- A non-linear (P-delta) analysis was used.
- Pressures are calculated at each section.
- Stress ratio used in pole design is 1.
- Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

- | | | |
|--|---|--|
| <ul style="list-style-type: none"> Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification √ Use Code Stress Ratios √ Use Code Safety Factors - Guys Escalate Ice Always Use Max Kz Use Special Wind Profile Include Bolts In Member Capacity Leg Bolts Are At Top Of Section Secondary Horizontal Braces Leg Use Diamond Inner Bracing (4 Sided) SR Members Have Cut Ends SR Members Are Concentric | <ul style="list-style-type: none"> Distribute Leg Loads As Uniform Assume Legs Pinned √ Assume Rigid Index Plate √ Use Clear Spans For Wind Area √ Use Clear Spans For KL/r Retention Guys To Initial Tension √ Bypass Mast Stability Checks √ Use Azimuth Dish Coefficients √ Project Wind Area of Appurt. Autocalc Torque Arm Areas Add IBC .6D+W Combination Sort Capacity Reports By Component Triangulate Diamond Inner Bracing Treat Feed Line Bundles As Cylinder √ Ignore KL/ry For 60 Deg. Angle Legs | <ul style="list-style-type: none"> Use ASCE 10 X-Brace Ly Rules √ Calculate Redundant Bracing Forces Ignore Redundant Members in FEA √ SR Leg Bolts Resist Compression √ All Leg Panels Have Same Allowable Offset Girt At Foundation √ Consider Feed Line Torque √ Include Angle Block Shear Check Use TIA-222-H Bracing Resist. Exemption Use TIA-222-H Tension Splice Exemption <li style="text-align: center;">Poles √ Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets √ Pole Without Linear Attachments Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known |
|--|---|--|

Tapered Pole Section Geometry

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Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	82.00-39.38	42.63	4.25	18	20.72	29.99	0.31	1.25	A572-65 (65 ksi)
L2	39.38-1.00	42.63		18	28.44	37.50	0.38	1.50	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	I/Q in ²	w in	w/t
L1	20.99	20.24	1065.03	7.24	10.53	101.18	2131.47	10.12	3.10	9.91
	30.41	29.44	3276.48	10.54	15.24	215.04	6557.28	14.72	4.73	15.132
L2	29.74	33.41	3325.29	9.96	14.45	230.14	6654.95	16.71	4.35	11.589
	38.02	44.19	7694.40	13.18	19.05	403.91	15398.93	22.10	5.94	15.84

Tower Elevation ft	Gusset Area (per face) ft ²	Gusset Thickness in	Gusset Grade	Adjust. Factor A _f	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L1 82.00-39.38				1	1	1			
L2 39.38-1.00				1	1	1			

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	C _A A _A ft ² /ft	Weight plf
1 5/8" Coax (Verizon)	B	No	No	Inside Pole	80.00 - 1.00	12	No Ice	1.040
							1/2" Ice	1.040
							1" Ice	1.040
							2" Ice	1.040
1 5/8" Hybrid Cable (Verizon)	B	No	No	Inside Pole	80.00 - 1.00	4	No Ice	1.780
							1/2" Ice	1.780
							1" Ice	1.780
							2" Ice	1.780
Hybrid (Dish Wireless)	B	No	No	Inside Pole	61.00 - 1.00	1	No Ice	1.780
							1/2" Ice	1.780
							1" Ice	1.780
							2" Ice	1.780

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight lb
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tnxTower Semaan Engineering Solutions, LLC 1047 S. 205th St. Elkhorn, NE, 68022 Phone: (402)-289-1888 FAX: (402)-289-1861	Job	23393_Trumbull	Page	3 of 24
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	Client	KGI	Designed by	TrevorK

Tower Section	Tower Elevation ft	Face	A_R ft ²	A_F ft ²	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²	Weight lb
L1	82.00-39.38	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	834.74
		C	0.000	0.000	0.000	0.000	0.00
L2	39.38-1.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	820.46
		C	0.000	0.000	0.000	0.000	0.00

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft ²	A_F ft ²	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²	Weight lb
L1	82.00-39.38	A	1.082	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	834.74
		C		0.000	0.000	0.000	0.000	0.00
L2	39.38-1.00	A	0.971	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	820.46
		C		0.000	0.000	0.000	0.000	0.00

Feed Line Center of Pressure

Section	Elevation ft	CP_x in	CP_z in	CP_x Ice in	CP_z Ice in
L1	82.00-39.38	0.00	0.00	0.00	0.00
L2	39.38-1.00	0.00	0.00	0.00	0.00

Note: For pole sections, center of pressure calculations do not consider feed line shielding.

User Defined Loads - Seismic

Description	Elevation ft	Offset From Centroid ft	Azimuth Angle °	E_v lb	E_{hx} lb	E_{hy} lb	E_h lb
CCISeismic Tower Section 1 - 1	80.69	0.000	0.000	3.32	0.00	0.00	13.32
CCISeismic Tower Section 1 - 2	74.38	0.000	0.000	13.50	0.00	0.00	47.64
CCISeismic Tower Section 1 - 3	64.38	0.000	0.000	14.84	0.00	0.00	41.78
CCISeismic Tower Section 1 - 4	54.38	0.000	0.000	16.17	0.00	0.00	34.95
CCISeismic Tower Section 1 - 5	44.38	0.000	0.000	17.50	0.00	0.00	27.49
CCISeismic Tower Section 2 - 1	42.31	0.000	0.000	5.46	0.00	0.00	7.96
CCISeismic Tower Section 2 - 2	36.00	0.000	0.000	21.80	0.00	0.00	24.62
CCISeismic Tower Section 2 - 3	26.00	0.000	0.000	23.36	0.00	0.00	15.72
CCISeismic Tower Section 2 - 4	16.00	0.000	0.000	24.92	0.00	0.00	7.64
CCISeismic Tower Section 2 - 5	6.00	0.000	0.000	26.48	0.00	0.00	1.50
CCISeismic 14' Modified Platform w/ Rail w/o Mount Pipes	80.00	0.000	0.000	34.05	0.00	0.00	134.58

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Description	Elevation	Offset From Centroid	Azimuth Angle	E _v	E _{hx}	E _{hz}	E _b
	ft	ft	°	lb	lb	lb	lb
CCISeismic verizon PLK5 Kicker	78.00	0.000	0.000	1.76	0.00	0.00	6.68
CCISeismic verizon PLK7 Collar Mount	76.00	0.000	0.000	2.72	0.00	0.00	9.93
CCISeismic (4) amphenol BXA-70080/8CF w/8' Mount Pipe	80.00	0.000	0.000	5.03	0.00	0.00	19.87
CCISeismic (4) amphenol BXA-70080/8CF w/8' Mount Pipe	80.00	0.000	0.000	5.03	0.00	0.00	19.87
CCISeismic (4) amphenol BXA-70080/8CF w/8' Mount Pipe	80.00	0.000	0.000	5.03	0.00	0.00	19.87
CCISeismic semaan OVP Box	80.00	0.000	0.000	0.36	0.00	0.00	1.43
CCISeismic semaan OVP Box	80.00	0.000	0.000	0.36	0.00	0.00	1.43
CCISeismic (2) semaan OVP Box	80.00	0.000	0.000	0.73	0.00	0.00	2.87
CCISeismic (2) semaan RRH 3JR52709AA 2X60 (AWS 60W)	80.00	0.000	0.000	1.99	0.00	0.00	7.88
CCISeismic (2) semaan RRH 3JR52709AA 2X60 (AWS 60W)	80.00	0.000	0.000	1.99	0.00	0.00	7.88
CCISeismic (2) semaan RRH 3JR52709AA 2X60 (AWS 60W)	80.00	0.000	0.000	1.99	0.00	0.00	7.88
CCISeismic semaan RRH 4X30-4T4R-B13	80.00	0.000	0.000	0.59	0.00	0.00	2.34
CCISeismic semaan RRH 4X30-4T4R-B13	80.00	0.000	0.000	0.59	0.00	0.00	2.34
CCISeismic semaan RRH 4X30-4T4R-B13	80.00	0.000	0.000	0.59	0.00	0.00	2.34
CCISeismic semaan RRH 4x30-4T4R-B25	80.00	0.000	0.000	0.92	0.00	0.00	3.66
CCISeismic semaan RRH 4x30-4T4R-B25	80.00	0.000	0.000	0.92	0.00	0.00	3.66
CCISeismic semaan RRH 4x30-4T4R-B25	80.00	0.000	0.000	0.92	0.00	0.00	3.66
CCISeismic (4) semaan TMA 10"x7"x2"	80.00	0.000	0.000	0.73	0.00	0.00	2.87
CCISeismic (4) semaan TMA 10"x7"x2"	80.00	0.000	0.000	0.73	0.00	0.00	2.87
CCISeismic (4) semaan TMA 10"x7"x2"	80.00	0.000	0.000	0.73	0.00	0.00	2.87
CCISeismic (4) semaan RRUS A2 Modules	80.00	0.000	0.000	1.53	0.00	0.00	6.07
CCISeismic (4) semaan RRUS A2 Modules	80.00	0.000	0.000	1.53	0.00	0.00	6.07
CCISeismic (4) semaan RRUS A2 Modules	80.00	0.000	0.000	1.53	0.00	0.00	6.07
CCISeismic pole mounts Commscope MC-PK8-DSH Snub Nose Platform w/Rail w/o Mount Pipe (SES)	61.00	0.000	0.000	17.84	0.00	0.00	46.18
CCISeismic jma MX08FRO665-21 w/8' Mount Pipe	61.00	0.000	0.000	2.01	0.00	0.00	5.20
CCISeismic jma MX08FRO665-21 w/8' Mount Pipe	61.00	0.000	0.000	2.01	0.00	0.00	5.20
CCISeismic jma MX08FRO665-21 w/8' Mount Pipe	61.00	0.000	0.000	2.01	0.00	0.00	5.20

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	Client KGI	Designed by TrevorK

Description	Elevation	Offset From Centroid	Azimuth Angle	E _v	E _{hx}	E _{hz}	E _t
	ft	ft	°	lb	lb	lb	lb
CCISeismic fujitsu TA08025-B604	61.00	0.000	0.000	1.16	0.00	0.00	3.00
CCISeismic fujitsu TA08025-B604	61.00	0.000	0.000	1.16	0.00	0.00	3.00
CCISeismic fujitsu TA08025-B604	61.00	0.000	0.000	1.16	0.00	0.00	3.00
CCISeismic fujitsu TA08025-B605	61.00	0.000	0.000	1.36	0.00	0.00	3.52
CCISeismic fujitsu TA08025-B605	61.00	0.000	0.000	1.36	0.00	0.00	3.52
CCISeismic fujitsu TA08025-B605	61.00	0.000	0.000	1.36	0.00	0.00	3.52
CCISeismic raycap RDIDC-9181-PF-48	61.00	0.000	0.000	0.40	0.00	0.00	1.03
CCISeismic (2) tower mounts 8"x2" Pipe	61.00	0.000	0.000	1.06	0.00	0.00	2.74
CCISeismic (2) tower mounts 8"x2" Pipe	61.00	0.000	0.000	1.06	0.00	0.00	2.74
CCISeismic (2) tower mounts 8"x2" Pipe	61.00	0.000	0.000	1.06	0.00	0.00	2.74
CCISeismic (12) general cable 1 5/8" Coax From 0 to 79 (71ft to79ft)	76.00	0.000	0.000	1.81	0.00	0.00	6.61
CCISeismic (12) general cable 1 5/8" Coax From 0 to 79 (61ft to71ft)	67.00	0.000	0.000	2.26	0.00	0.00	6.78
CCISeismic (12) general cable 1 5/8" Coax From 0 to 79 (51ft to61ft)	57.00	0.000	0.000	2.26	0.00	0.00	5.27
CCISeismic (12) general cable 1 5/8" Coax From 0 to 79 (41ft to51ft)	47.00	0.000	0.000	2.26	0.00	0.00	3.89
CCISeismic (12) general cable 1 5/8" Coax From 0 to 79 (31ft to41ft)	37.00	0.000	0.000	2.26	0.00	0.00	2.67
CCISeismic (12) general cable 1 5/8" Coax From 0 to 79 (21ft to31ft)	27.00	0.000	0.000	2.26	0.00	0.00	1.62
CCISeismic (12) general cable 1 5/8" Coax From 0 to 79 (11ft to21ft)	17.00	0.000	0.000	2.26	0.00	0.00	0.77
CCISeismic (12) general cable 1 5/8" Coax From 0 to 79 (1ft to11ft)	7.00	0.000	0.000	2.26	0.00	0.00	0.17
CCISeismic (12) general cable 1 5/8" Coax From 0 to 79 (0ft to1ft)	1.50	0.000	0.000	0.23	0.00	0.00	0.00
CCISeismic (4) general cable 1 5/8" Hybrid Cable From 0 to 79 (71ft to79ft)	76.00	0.000	0.000	1.03	0.00	0.00	3.77
CCISeismic (4) general cable 1 5/8" Hybrid Cable From 0 to 79 (61ft to71ft)	67.00	0.000	0.000	1.29	0.00	0.00	3.87
CCISeismic (4) general cable 1 5/8" Hybrid Cable From 0 to 79 (51ft to61ft)	57.00	0.000	0.000	1.29	0.00	0.00	3.01
CCISeismic (4) general cable 1 5/8" Hybrid Cable From 0 to 79 (41ft to51ft)	47.00	0.000	0.000	1.29	0.00	0.00	2.22
CCISeismic (4) general cable 1	37.00	0.000	0.000	1.29	0.00	0.00	1.52

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	Client	KGI	Designed by	TrevorK

Description	Elevation	Offset From Centroid	Azimuth Angle	E_v	E_{hx}	E_{hz}	E_h
	ft	ft	°	lb	lb	lb	lb
5/8" Hybrid Cable From 0 to 79 (31ft to41ft)							
CCISEismic (4) general cable 1	27.00	0.000	0.000	1.29	0.00	0.00	0.92
5/8" Hybrid Cable From 0 to 79 (21ft to31ft)							
CCISEismic (4) general cable 1	17.00	0.000	0.000	1.29	0.00	0.00	0.44
5/8" Hybrid Cable From 0 to 79 (11ft to21ft)							
CCISEismic (4) general cable 1	7.00	0.000	0.000	1.29	0.00	0.00	0.10
5/8" Hybrid Cable From 0 to 79 (1ft to11ft)							
CCISEismic (4) general cable 1	1.50	0.000	0.000	0.13	0.00	0.00	0.00
5/8" Hybrid Cable From 0 to 79 (0ft to1ft)							
CCISEismic Hybrid From 0 to 60 (51ft to60ft)	56.50	0.000	0.000	0.29	0.00	0.00	0.67
CCISEismic Hybrid From 0 to 60 (41ft to51ft)	47.00	0.000	0.000	0.32	0.00	0.00	0.56
CCISEismic Hybrid From 0 to 60 (31ft to41ft)	37.00	0.000	0.000	0.32	0.00	0.00	0.38
CCISEismic Hybrid From 0 to 60 (21ft to31ft)	27.00	0.000	0.000	0.32	0.00	0.00	0.23
CCISEismic Hybrid From 0 to 60 (11ft to21ft)	17.00	0.000	0.000	0.32	0.00	0.00	0.11
CCISEismic Hybrid From 0 to 60 (1ft to11ft)	7.00	0.000	0.000	0.32	0.00	0.00	0.02
CCISEismic Hybrid From 0 to 60 (0ft to1ft)	1.50	0.000	0.000	0.03	0.00	0.00	0.00

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	Placement	$C_d A_d$ Front	$C_d A_d$ Side	Weight	
			ft ft ft	°	ft	ft ²	ft ²	lb	
14' Modified Platform w/ Rail w/o Mount Pipes (Verizon)	C	From Centroid-Face	0.00	0.000	80.00	No Ice	43.30	43.30	1877.55
			0.000			1/2" Ice	50.88	50.88	2400.80
			0.000			1" Ice	58.45	58.45	2924.05
						2" Ice	73.61	73.61	3970.56
PLK5 Kicker (Verizon)	C	None		0.000	78.00	No Ice	2.03	1.18	97.00
						1/2" Ice	2.21	1.34	102.91
						1" Ice	2.38	1.51	108.82
						2" Ice	2.72	1.85	120.64
PLK7 Collar Mount (Verizon)	C	None		0.000	76.00	No Ice	1.45	1.45	150.00
						1/2" Ice	2.19	2.19	275.00
						1" Ice	2.93	2.93	400.00
						2" Ice	4.41	4.41	650.00
(4) BXA-70080/8CF w/8' Mount Pipe (Verizon)	A	From Face	2.00	0.000	80.00	No Ice	8.32	8.75	69.32
			0.000			1/2" Ice	8.92	10.16	141.59
			0.000			1" Ice	9.52	11.23	224.19
						2" Ice	10.75	13.41	418.05
(4) BXA-70080/8CF w/8'	B	From Face	2.00	0.000	80.00	No Ice	8.32	8.75	69.32

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Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _A A ₁ Front ft ²	C _A A ₁ Side ft ²	Weight lb	
Mount Pipe (Verizon)			0.000 0.000		1/2" Ice	8.92	10.16	141.59	
					1" Ice	9.52	11.23	224.19	
					2" Ice	10.75	13.41	418.05	
(4) BXA-70080/8CF w/8' Mount Pipe (Verizon)	C	From Face	2.00 0.000 0.000	0.000	80.00	No Ice 1/2" Ice 1" Ice 2" Ice	8.32 8.92 9.52 10.75	8.75 10.16 11.23 13.41	69.32 141.59 224.19 418.05
OVP Box (Verizon)	A	From Face	1.50 0.000 0.000	0.000	80.00	No Ice 1/2" Ice 1" Ice 2" Ice	6.72 7.07 7.42 8.15	2.63 2.87 3.12 3.65	20.00 61.51 107.27 212.32
OVP Box (Verizon)	B	From Face	1.50 0.000 0.000	0.000	80.00	No Ice 1/2" Ice 1" Ice 2" Ice	6.72 7.07 7.42 8.15	2.63 2.87 3.12 3.65	20.00 61.51 107.27 212.32
(2) OVP Box (Verizon)	C	From Face	1.50 0.000 0.000	0.000	80.00	No Ice 1/2" Ice 1" Ice 2" Ice	6.72 7.07 7.42 8.15	2.63 2.87 3.12 3.65	20.00 61.51 107.27 212.32
(2) RRH 3JR52709AA 2X60 (AWS 60W) (Verizon)	A	From Face	1.50 0.000 0.000	0.000	80.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.36 3.61 3.88 4.42	2.00 2.24 2.48 2.97	55.00 78.16 104.95 170.18
(2) RRH 3JR52709AA 2X60 (AWS 60W) (Verizon)	B	From Face	1.50 0.000 0.000	0.000	80.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.36 3.61 3.88 4.42	2.00 2.24 2.48 2.97	55.00 78.16 104.95 170.18
(2) RRH 3JR52709AA 2X60 (AWS 60W) (Verizon)	C	From Face	1.50 0.000 0.000	0.000	80.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.36 3.61 3.88 4.42	2.00 2.24 2.48 2.97	55.00 78.16 104.95 170.18
RRH 4X30-4T4R-B13 (Verizon)	A	From Face	1.50 0.000 0.000	0.000	80.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.54 1.70 1.86 2.21	0.63 0.75 0.87 1.13	32.60 43.87 57.42 92.14
RRH 4X30-4T4R-B13 (Verizon)	B	From Face	1.50 0.000 0.000	0.000	80.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.54 1.70 1.86 2.21	0.63 0.75 0.87 1.13	32.60 43.87 57.42 92.14
RRH 4X30-4T4R-B13 (Verizon)	C	From Face	1.50 0.000 0.000	0.000	80.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.54 1.70 1.86 2.21	0.63 0.75 0.87 1.13	32.60 43.87 57.42 92.14
RRH 4x30-4T4R-B25 (Verizon)	A	From Face	1.50 0.000 0.000	0.000	80.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.14 2.33 2.52 2.94	1.30 1.46 1.62 1.98	51.00 68.44 88.70 138.47
RRH 4x30-4T4R-B25 (Verizon)	B	From Face	1.50 0.000 0.000	0.000	80.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.14 2.33 2.52 2.94	1.30 1.46 1.62 1.98	51.00 68.44 88.70 138.47
RRH 4x30-4T4R-B25 (Verizon)	C	From Face	1.50 0.000 0.000	0.000	80.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.14 2.33 2.52 2.94	1.30 1.46 1.62 1.98	51.00 68.44 88.70 138.47
(4) TMA 16"x7"x2" (Verizon)	A	From Face	2.00 0.000	0.000	80.00	No Ice 1/2" Ice	0.58 0.68	0.18 0.25	10.00 14.02

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Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight lb
			0.000			1" Ice 0.79	0.33	19.46
(4) TMA 10"x7"x2" (Verizon)	B	From Face	2.00	0.000	80.00	2" Ice 1.02	0.50	35.41
			0.000			No Ice 0.58	0.18	10.00
			0.000			1/2" Ice 0.68	0.25	14.02
			0.000			1" Ice 0.79	0.33	19.46
(4) TMA 10"x7"x2" (Verizon)	C	From Face	2.00	0.000	80.00	2" Ice 1.02	0.50	35.41
			0.000			No Ice 0.58	0.18	10.00
			0.000			1/2" Ice 0.68	0.25	14.02
			0.000			1" Ice 0.79	0.33	19.46
(4) RRUS A2 Modules (Verizon)	A	From Face	2.00	0.000	80.00	2" Ice 1.02	0.50	35.41
			0.000			No Ice 1.60	0.46	21.16
			0.000			1/2" Ice 1.76	0.56	31.49
			0.000			1" Ice 1.92	0.67	44.03
(4) RRUS A2 Modules (Verizon)	B	From Face	2.00	0.000	80.00	2" Ice 2.28	0.91	76.55
			0.000			No Ice 1.60	0.46	21.16
			0.000			1/2" Ice 1.76	0.56	31.49
			0.000			1" Ice 1.92	0.67	44.03
(4) RRUS A2 Modules (Verizon)	C	From Face	2.00	0.000	80.00	2" Ice 2.28	0.91	76.55
			0.000			No Ice 1.60	0.46	21.16
			0.000			1/2" Ice 1.76	0.56	31.49
			0.000			1" Ice 1.92	0.67	44.03
			0.000			2" Ice 2.28	0.91	76.55
* Commscope MC-PK8-DSH Snub Nose Platform w/Rail w/o Mount Pipe (SES) (Dish Wireless)	C	None		0.000	61.00	No Ice 26.05	26.05	983.89
						1/2" Ice 50.70	50.70	1279.06
						1" Ice 75.35	75.35	1574.22
						2" Ice 124.65	124.65	2164.56
MX08FRO665-21 w/8' Mount Pipe (Dish Wireless)	A	From Face	2.00	0.000	61.00	No Ice 13.06	8.17	110.82
			0.000			1/2" Ice 13.77	9.46	209.48
			0.000			1" Ice 14.39	10.41	317.93
						2" Ice 15.67	12.36	561.82
MX08FRO665-21 w/8' Mount Pipe (Dish Wireless)	B	From Face	2.00	0.000	61.00	No Ice 13.06	8.17	110.82
			0.000			1/2" Ice 13.77	9.46	209.48
			0.000			1" Ice 14.39	10.41	317.93
						2" Ice 15.67	12.36	561.82
MX08FRO665-21 w/8' Mount Pipe (Dish Wireless)	C	From Face	2.00	0.000	61.00	No Ice 13.06	8.17	110.82
			0.000			1/2" Ice 13.77	9.46	209.48
			0.000			1" Ice 14.39	10.41	317.93
						2" Ice 15.67	12.36	561.82
TA08025-B604 (Dish Wireless)	A	From Face	2.00	0.000	61.00	No Ice 1.98	1.04	64.00
			0.000			1/2" Ice 2.15	1.18	80.85
			0.000			1" Ice 2.33	1.32	100.41
						2" Ice 2.72	1.63	148.40
TA08025-B604 (Dish Wireless)	B	From Face	2.00	0.000	61.00	No Ice 1.98	1.04	64.00
			0.000			1/2" Ice 2.15	1.18	80.85
			0.000			1" Ice 2.33	1.32	100.41
						2" Ice 2.72	1.63	148.40
TA08025-B604 (Dish Wireless)	C	From Face	2.00	0.000	61.00	No Ice 1.98	1.04	64.00
			0.000			1/2" Ice 2.15	1.18	80.85
			0.000			1" Ice 2.33	1.32	100.41
						2" Ice 2.72	1.63	148.40
TA08025-B605 (Dish Wireless)	A	From Face	2.00	0.000	61.00	No Ice 1.98	1.20	75.00
			0.000			1/2" Ice 2.15	1.34	93.09
			0.000			1" Ice 2.33	1.49	113.96
						2" Ice 2.72	1.81	164.82
TA08025-B605 (Dish Wireless)	B	From Face	2.00	0.000	61.00	No Ice 1.98	1.20	75.00
			0.000			1/2" Ice 2.15	1.34	93.09

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Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight lb
			0.000			1" Ice 2.33	1.49	113.96
TA08025-B605 (Dish Wireless)	C	From Face	2.00	0.000	61.00	2" Ice 2.72	1.81	164.82
						No Ice 1.98	1.20	75.00
						1/2" Ice 2.15	1.34	93.09
						1" Ice 2.33	1.49	113.96
RDIDC-9181-PF-48 (Dish Wireless)	C	From Face	2.00	0.000	61.00	2" Ice 2.72	1.81	164.82
						No Ice 2.30	1.33	21.85
						1/2" Ice 2.49	1.49	41.36
						1" Ice 2.68	1.65	63.78
(2) 8'x2" Pipe (Dish Wireless)	A	From Face	2.00	0.000	61.00	2" Ice 3.10	2.00	118.14
						No Ice 1.90	1.90	29.22
						1/2" Ice 2.73	2.73	43.56
						1" Ice 3.40	3.40	63.19
(2) 8'x2" Pipe (Dish Wireless)	B	From Face	2.00	0.000	61.00	2" Ice 4.40	4.40	118.88
						No Ice 1.90	1.90	29.22
						1/2" Ice 2.73	2.73	43.56
						1" Ice 3.40	3.40	63.19
(2) 8'x2" Pipe (Dish Wireless)	C	From Face	2.00	0.000	61.00	2" Ice 4.40	4.40	118.88
						No Ice 1.90	1.90	29.22
						1/2" Ice 2.73	2.73	43.56
						1" Ice 3.40	3.40	63.19
			0.000			2" Ice 4.40	4.40	118.88

Tower Pressures - No Ice

$G_H = 1.100$

Section Elevation ft	z ft	K _Z	q _z ksf	A _G ft ²	F _a c e	A _F ft ²	A _R ft ²	A _{leg} ft ²	Leg %	C _{AA} In Face ft ²	C _{AA} Out Face ft ²
L1 82.00-39.38	59.78	1.136	0.039	91.287	A	0.000	91.287	91.287	100.00	0.000	0.000
					B	0.000	91.287		100.00	0.000	0.000
					C	0.000	91.287		100.00	0.000	0.000
L2 39.38-1.00	20.08	0.903	0.032	108.349	A	0.000	108.349	108.349	100.00	0.000	0.000
					B	0.000	108.349		100.00	0.000	0.000
					C	0.000	108.349		100.00	0.000	0.000

Tower Pressure - With Ice

$G_H = 1.100$

Section Elevation ft	z ft	K _Z	q _z ksf	t _Z in	A _G ft ²	F _a c e	A _F ft ²	A _R ft ²	A _{leg} ft ²	Leg %	C _{AA} In Face ft ²	C _{AA} Out Face ft ²
L1 82.00-39.38	59.78	1.136	0.006	1.08	98.976	A	0.000	98.976	98.976	100.00	0.000	0.000

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Section Elevation	z	K _Z	q _z	t _z	A _G	F _a c e	A _F	A _R	A _{leg}	Leg %	C _A A _A In Face ft ²	C _A A _A Out Face ft ²
ft	ft		ksf	in	ft ²		ft ²	ft ²	ft ²		ft ²	ft ²
L2 39.38-1.00	20.08	0.903	0.005	0.97	115.272	B	0.000	98.976		100.00	0.000	0.000
						C	0.000	98.976		100.00	0.000	0.000
						A	0.000	115.272	115.272	100.00	0.000	0.000
						B	0.000	115.272		100.00	0.000	0.000
						C	0.000	115.272		100.00	0.000	0.000

Tower Pressure - Service

$G_H = 1.100$

Section Elevation	z	K _Z	q _z	A _G	F _a c e	A _F	A _R	A _{leg}	Leg %	C _A A _A In Face ft ²	C _A A _A Out Face ft ²
ft	ft		ksf	ft ²		ft ²	ft ²	ft ²		ft ²	ft ²
L1 82.00-39.38	59.78	1.136	0.009	91.287	A	0.000	91.287	91.287	100.00	0.000	0.000
					B	0.000	91.287		100.00	0.000	0.000
					C	0.000	91.287		100.00	0.000	0.000
L2 39.38-1.00	20.08	0.903	0.007	108.349	A	0.000	108.349	108.349	100.00	0.000	0.000
					B	0.000	108.349		100.00	0.000	0.000
					C	0.000	108.349		100.00	0.000	0.000
					C	0.000	108.349		100.00	0.000	0.000

Tower Forces - No Ice - Wind Normal To Face

Section Elevation	Add Weight	Self Weight	F _a c e	e	C _F	q _z	D _F	D _R	A _E	F	w	Ctrl. Face
ft	lb	lb				ksf			ft ²	lb	plf	
L1 82.00-39.38	834.74	3602.97	A	1	0.63	0.039	1	1	91.287	2490.82	58.436	C
			B	1	0.63		1	1	91.287			
			C	1	0.63		1	1	91.287			
L2 39.38-1.00	820.46	5627.45	A	1	0.63	0.032	1	1	108.349	2380.21	62.025	C
			B	1	0.63		1	1	108.349			
			C	1	0.63		1	1	108.349			
Sum Weight:	1655.20	9230.42						OTM	191.84 kip-ft	4871.03		

Tower Forces - No Ice - Wind 60 To Face

Section Elevation	Add Weight	Self Weight	F _a c e	e	C _F	q _z	D _F	D _R	A _E	F	w	Ctrl. Face
ft	lb	lb				ksf			ft ²	lb	plf	
L1 82.00-39.38	834.74	3602.97	A	1	0.63	0.039	1	1	91.287	2490.82	58.436	C
			B	1	0.63		1	1	91.287			
			C	1	0.63		1	1	91.287			
L2 39.38-1.00	820.46	5627.45	A	1	0.63	0.032	1	1	108.349	2380.21	62.025	C
			B	1	0.63		1	1	108.349			

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Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z	D _F	D _R	A _R	F	w	Ctrl. Face
ft	lb	lb	e			ksf			ft ²	lb	plf	
Sum Weight:	1655.20	9230.42	C	1	0.63		1	1	108.349 191.84 kip-ft	4871.03		

Tower Forces - No Ice - Wind 90 To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z	D _F	D _R	A _E	F	w	Ctrl. Face
ft	lb	lb	e			ksf			ft ²	lb	plf	
L1 82.00-39.38	834.74	3602.97	A	1	0.63	0.039	1	1	91.287	2490.82	58.436	C
			B	1	0.63		1	1	91.287			
			C	1	0.63		1	1	91.287			
L2 39.38-1.00	820.46	5627.45	A	1	0.63	0.032	1	1	108.349	2380.21	62.025	C
			B	1	0.63		1	1	108.349			
			C	1	0.63		1	1	108.349			
Sum Weight:	1655.20	9230.42						OTM	191.84 kip-ft	4871.03		

Tower Forces - With Ice - Wind Normal To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z	D _F	D _R	A _E	F	w	Ctrl. Face
ft	lb	lb	e			ksf			ft ²	lb	plf	
L1 82.00-39.38	834.74	5108.70	A	1	1.1	0.006	1	1	98.976	723.36	16.970	C
			B	1	1.1		1	1	98.976			
			C	1	1.1		1	1	98.976			
L2 39.38-1.00	820.46	7208.68	A	1	1.1	0.005	1	1	114.556	674.06	17.565	C
			B	1	1.1		1	1	114.556			
			C	1	1.1		1	1	114.556			
Sum Weight:	1655.20	12317.37						OTM	55.38 kip-ft	1397.41		

Tower Forces - With Ice - Wind 60 To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z	D _F	D _R	A _E	F	w	Ctrl. Face
ft	lb	lb	e			ksf			ft ²	lb	plf	
L1 82.00-39.38	834.74	5108.70	A	1	1.1	0.006	1	1	98.976	723.36	16.970	C
			B	1	1.1		1	1	98.976			
			C	1	1.1		1	1	98.976			
L2 39.38-1.00	820.46	7208.68	A	1	1.1	0.005	1	1	114.556	674.06	17.565	C

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Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z	D _F	D _R	A _E	F	w	Ctrl. Face
ft	lb	lb				ksf			ft ²	lb	plf	
			B	1	1.1		1	1	114.556			
			C	1	1.1		1	1	114.556			
Sum Weight:	1655.20	12317.37						OTM	55.38	1397.41		
									kip-ft			

Tower Forces - With Ice - Wind 90 To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z	D _F	D _R	A _E	F	w	Ctrl. Face
ft	lb	lb				ksf			ft ²	lb	plf	
L1	834.74	5108.70	A	1	1.1	0.006	1	1	98.976	723.36	16.970	C
82.00-39.38			B	1	1.1		1	1	98.976			
			C	1	1.1		1	1	98.976			
L2	820.46	7208.68	A	1	1.1	0.005	1	1	114.556	674.06	17.565	C
39.38-1.00			B	1	1.1		1	1	114.556			
			C	1	1.1		1	1	114.556			
Sum Weight:	1655.20	12317.37						OTM	55.38	1397.41		
									kip-ft			

Tower Forces - Service - Wind Normal To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z	D _F	D _R	A _E	F	w	Ctrl. Face
ft	lb	lb				ksf			ft ²	lb	plf	
L1	834.74	3602.97	A	1	0.63	0.009	1	1	91.287	557.16	13.071	C
82.00-39.38			B	1	0.63		1	1	91.287			
			C	1	0.63		1	1	91.287			
L2	820.46	5627.45	A	1	0.63	0.007	1	1	108.349	532.41	13.874	C
39.38-1.00			B	1	0.63		1	1	108.349			
			C	1	0.63		1	1	108.349			
Sum Weight:	1655.20	9230.42						OTM	42.91	1089.57		
									kip-ft			

Tower Forces - Service - Wind 60 To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z	D _F	D _R	A _E	F	w	Ctrl. Face
ft	lb	lb				ksf			ft ²	lb	plf	
L1	834.74	3602.97	A	1	0.63	0.009	1	1	91.287	557.16	13.071	C
82.00-39.38			B	1	0.63		1	1	91.287			
			C	1	0.63		1	1	91.287			

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Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z	D _F	D _R	A _E	F	w	Ctrl. Face
ft	lb	lb				ksf			ft ²	lb	plf	
L2 39.38-1.00	820.46	5627.45	A	1	0.63	0.007	1	1	108.349	532.41	13.874	C
			B	1	0.63		1	1	108.349			
			C	1	0.63		1	1	108.349			
Sum Weight:	1655.20	9230.42						OTM	42.91 kip-ft	1089.57		

Tower Forces - Service - Wind 90 To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z	D _F	D _R	A _E	F	w	Ctrl. Face
ft	lb	lb				ksf			ft ²	lb	plf	
L1 82.00-39.38	834.74	3602.97	A	1	0.63	0.009	1	1	91.287	557.16	13.071	C
			B	1	0.63		1	1	91.287			
			C	1	0.63		1	1	91.287			
L2 39.38-1.00	820.46	5627.45	A	1	0.63	0.007	1	1	108.349	532.41	13.874	C
			B	1	0.63		1	1	108.349			
			C	1	0.63		1	1	108.349			
Sum Weight:	1655.20	9230.42						OTM	42.91 kip-ft	1089.57		

Force Totals

Load Case	Vertical Forces	Sum of Forces X	Sum of Forces Z	Sum of Overturning Moments, M _x	Sum of Overturning Moments, M _z	Sum of Torques
	lb	lb	lb	kip-ft	kip-ft	kip-ft
Leg Weight	9230.42					
Bracing Weight	0.00					
Total Member Self-Weight	9230.42					
Total Weight	16807.25			0.11	0.00	
Wind 0 deg - No Ice		0.00	-16342.20	-1042.38	0.00	0.00
Wind 30 deg - No Ice		8070.13	-14152.76	-902.71	-513.57	0.20
Wind 60 deg - No Ice		13977.87	-8171.10	-521.13	-889.53	0.34
Wind 90 deg - No Ice		16140.25	0.00	0.11	-1027.14	0.39
Wind 120 deg - No Ice		13977.87	8171.10	521.36	-889.53	0.34
Wind 150 deg - No Ice		8070.13	14152.76	902.94	-513.57	0.20
Wind 180 deg - No Ice		0.00	16342.20	1042.61	0.00	0.00
Wind 210 deg - No Ice		-8070.13	14152.76	902.94	513.57	-0.20
Wind 240 deg - No Ice		-13977.87	8171.10	521.36	889.53	-0.34
Wind 270 deg - No Ice		-16140.25	0.00	0.11	1027.14	-0.39
Wind 300 deg - No Ice		-13977.87	-8171.10	-521.13	889.53	-0.34
Wind 330 deg - No Ice		-8070.13	-14152.76	-902.71	513.57	-0.20
Member Ice	3086.95					
Total Weight Ice	26741.63			0.49	0.00	
Wind 0 deg - Ice		0.00	-3965.78	-240.73	0.00	0.00
Wind 30 deg - Ice		1966.49	-3434.46	-208.41	-119.37	0.04
Wind 60 deg - Ice		3406.07	-1982.89	-120.12	-206.75	0.06
Wind 90 deg - Ice		3932.99	0.00	0.49	-238.73	0.07

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Load Case	Vertical Forces lb	Sum of Forces X lb	Sum of Forces Z lb	Sum of Overturning Moments, M_x kip-ft	Sum of Overturning Moments, M_z kip-ft	Sum of Torques kip-ft
Wind 120 deg - Ice		3406.07	1982.89	121.10	-206.75	0.06
Wind 150 deg - Ice		1966.49	3434.46	209.40	-119.37	0.04
Wind 180 deg - Ice		0.00	3965.78	241.72	0.00	0.00
Wind 210 deg - Ice		-1966.49	3434.46	209.40	119.37	-0.04
Wind 240 deg - Ice		-3406.07	1982.89	121.10	206.75	-0.06
Wind 270 deg - Ice		-3932.99	0.00	0.49	238.73	-0.07
Wind 300 deg - Ice		-3406.07	-1982.89	-120.12	206.75	-0.06
Wind 330 deg - Ice		-1966.49	-3434.46	-208.41	119.37	-0.04
Total Weight	16807.25			0.11	0.00	
Wind 0 deg - Service		0.00	-3655.49	-233.07	0.00	0.00
Wind 30 deg - Service		1805.16	-3165.75	-201.83	-114.88	0.04
Wind 60 deg - Service		3126.63	-1827.75	-116.48	-198.97	0.08
Wind 90 deg - Service		3610.32	0.00	0.11	-229.75	0.09
Wind 120 deg - Service		3126.63	1827.75	116.71	-198.97	0.08
Wind 150 deg - Service		1805.16	3165.75	202.06	-114.88	0.04
Wind 180 deg - Service		0.00	3655.49	233.30	0.00	0.00
Wind 210 deg - Service		-1805.16	3165.75	202.06	114.88	-0.04
Wind 240 deg - Service		-3126.63	1827.75	116.71	198.97	-0.08
Wind 270 deg - Service		-3610.32	0.00	0.11	229.75	-0.09
Wind 300 deg - Service		-3126.63	-1827.75	-116.48	198.97	-0.08
Wind 330 deg - Service		-1805.16	-3165.75	-201.83	114.88	-0.04
Seismic Vertical	304.76					
Seismic Horizontal 0 deg		0.00	-643.78	-42.41	0.00	0.00
Seismic Horizontal 30 deg		321.89	-557.53	-36.73	-21.21	0.00
Seismic Horizontal 60 deg		557.53	-321.89	-21.21	-36.73	0.00
Seismic Horizontal 90 deg		643.78	0.00	0.00	-42.41	0.00
Seismic Horizontal 120 deg		557.53	321.89	21.21	-36.73	0.00
Seismic Horizontal 150 deg		321.89	557.53	36.73	-21.21	0.00
Seismic Horizontal 180 deg		0.00	643.78	42.41	0.00	0.00
Seismic Horizontal 210 deg		-321.89	557.53	36.73	21.21	0.00
Seismic Horizontal 240 deg		-557.53	321.89	21.21	36.73	0.00
Seismic Horizontal 270 deg		-643.78	0.00	0.00	42.41	0.00
Seismic Horizontal 300 deg		-557.53	-321.89	-21.21	36.73	0.00
Seismic Horizontal 330 deg		-321.89	-557.53	-36.73	21.21	0.00

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice

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Comb. No.	Description
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service
51	1.2 Dead+1.0 Ev+1.0 Eh 0 deg
52	0.9 Dead-1.0 Ev+1.0 Eh 0 deg
53	1.2 Dead+1.0 Ev+1.0 Eh 30 deg
54	0.9 Dead-1.0 Ev+1.0 Eh 30 deg
55	1.2 Dead+1.0 Ev+1.0 Eh 60 deg
56	0.9 Dead-1.0 Ev+1.0 Eh 60 deg
57	1.2 Dead+1.0 Ev+1.0 Eh 90 deg
58	0.9 Dead-1.0 Ev+1.0 Eh 90 deg
59	1.2 Dead+1.0 Ev+1.0 Eh 120 deg
60	0.9 Dead-1.0 Ev+1.0 Eh 120 deg
61	1.2 Dead+1.0 Ev+1.0 Eh 150 deg
62	0.9 Dead-1.0 Ev+1.0 Eh 150 deg
63	1.2 Dead+1.0 Ev+1.0 Eh 180 deg
64	0.9 Dead-1.0 Ev+1.0 Eh 180 deg
65	1.2 Dead+1.0 Ev+1.0 Eh 210 deg
66	0.9 Dead-1.0 Ev+1.0 Eh 210 deg
67	1.2 Dead+1.0 Ev+1.0 Eh 240 deg
68	0.9 Dead-1.0 Ev+1.0 Eh 240 deg
69	1.2 Dead+1.0 Ev+1.0 Eh 270 deg
70	0.9 Dead-1.0 Ev+1.0 Eh 270 deg
71	1.2 Dead+1.0 Ev+1.0 Eh 300 deg
72	0.9 Dead-1.0 Ev+1.0 Eh 300 deg
73	1.2 Dead+1.0 Ev+1.0 Eh 330 deg
74	0.9 Dead-1.0 Ev+1.0 Eh 330 deg

Maximum Member Forces

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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	82 - 39.375	Pole	Max Tension	27	0.00	0.00	-0.00
			Max. Compression	26	-20031.42	0.00	-0.52
			Max. M _x	8	-11447.61	-406.15	-0.14
			Max. M _y	14	-11435.69	0.00	-413.20
			Max. V _y	8	13807.96	-406.15	-0.14
			Max. V _x	14	14014.96	0.00	-413.20
L2	39.375 - 1	Pole	Max. Torque	8			-0.39
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-30278.20	0.00	-0.52
			Max. M _x	8	-20157.61	-1046.47	-0.14
			Max. M _y	14	-20157.30	0.00	-1062.26
			Max. V _y	8	16154.10	-1046.47	-0.14
			Max. V _x	14	16356.26	0.00	-1062.26
			Max. Torque	8			-0.39

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical lb	Horizontal, X lb	Horizontal, Z lb
Pole	Max. Vert	33	30278.20	0.00	-3965.78
	Max. H _x	20	20168.70	16140.25	-0.00
	Max. H _z	2	20168.70	0.00	16342.21
	Max. M _x	2	1061.98	0.00	16342.21
	Max. M _z	8	1046.47	-16140.25	-0.00
	Max. Torsion	20	0.39	16140.25	-0.00
	Min. Vert	64	14821.76	0.00	-643.78
	Min. H _x	8	20168.70	-16140.25	-0.00
	Min. H _z	14	20168.70	0.00	-16342.21
	Min. M _x	14	-1062.26	0.00	-16342.21
	Min. M _z	20	-1046.47	16140.25	-0.00
	Min. Torsion	8	-0.39	-16140.25	-0.00

Tower Mast Reaction Summary

Load Combination	Vertical lb	Shear _x lb	Shear _z lb	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
Dead Only	16807.25	0.00	0.00	0.11	0.00	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	20168.70	0.00	-16342.21	-1061.98	0.00	0.00
0.9 Dead+1.0 Wind 0 deg - No Ice	15126.52	0.00	-16342.20	-1056.94	0.00	0.00
1.2 Dead+1.0 Wind 30 deg - No Ice	20168.70	8070.13	-14152.76	-919.69	-523.23	0.20
0.9 Dead+1.0 Wind 30 deg - No Ice	15126.52	8070.13	-14152.76	-915.32	-520.73	0.20
1.2 Dead+1.0 Wind 60 deg - No Ice	20168.70	13977.87	-8171.10	-530.92	-906.27	0.34
0.9 Dead+1.0 Wind 60 deg - No Ice	15126.52	13977.87	-8171.10	-528.42	-901.94	0.34
1.2 Dead+1.0 Wind 90 deg - No Ice	20168.70	16140.25	0.00	0.14	-1046.47	0.39

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Load Combination	Vertical lb	Shear _y lb	Shear _x lb	Overturning Moment, M _x kip-ft	Overturning Moment, M _y kip-ft	Torque kip-ft
Ice						
0.9 Dead+1.0 Wind 90 deg - No Ice	15126.52	16140.25	0.00	0.10	-1041.47	0.39
1.2 Dead+1.0 Wind 120 deg - No Ice	20168.70	13977.87	8171.10	531.21	-906.27	0.34
0.9 Dead+1.0 Wind 120 deg - No Ice	15126.52	13977.87	8171.10	528.63	-901.94	0.34
1.2 Dead+1.0 Wind 150 deg - No Ice	20168.70	8070.13	14152.76	919.97	-523.23	0.20
0.9 Dead+1.0 Wind 150 deg - No Ice	15126.52	8070.13	14152.76	915.53	-520.73	0.20
1.2 Dead+1.0 Wind 180 deg - No Ice	20168.70	0.00	16342.21	1062.26	0.00	0.00
0.9 Dead+1.0 Wind 180 deg - No Ice	15126.52	0.00	16342.20	1057.15	0.00	0.00
1.2 Dead+1.0 Wind 210 deg - No Ice	20168.70	-8070.13	14152.76	919.97	523.23	-0.20
0.9 Dead+1.0 Wind 210 deg - No Ice	15126.52	-8070.13	14152.76	915.53	520.73	-0.20
1.2 Dead+1.0 Wind 240 deg - No Ice	20168.70	-13977.87	8171.10	531.21	906.27	-0.34
0.9 Dead+1.0 Wind 240 deg - No Ice	15126.52	-13977.87	8171.10	528.63	901.94	-0.34
1.2 Dead+1.0 Wind 270 deg - No Ice	20168.70	-16140.25	0.00	0.14	1046.47	-0.39
0.9 Dead+1.0 Wind 270 deg - No Ice	15126.52	-16140.25	0.00	0.10	1041.47	-0.39
1.2 Dead+1.0 Wind 300 deg - No Ice	20168.70	-13977.87	-8171.10	-530.92	906.27	-0.34
0.9 Dead+1.0 Wind 300 deg - No Ice	15126.52	-13977.87	-8171.10	-528.42	901.94	-0.34
1.2 Dead+1.0 Wind 330 deg - No Ice	20168.70	-8070.13	-14152.76	-919.69	523.23	-0.20
0.9 Dead+1.0 Wind 330 deg - No Ice	15126.52	-8070.13	-14152.76	-915.32	520.73	-0.20
1.2 Dead+1.0 Ice	30278.20	0.00	0.00	0.52	0.00	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice	30278.20	0.00	-3965.78	-248.54	0.00	0.00
1.2 Dead+1.0 Wind 30 deg+1.0 Ice	30278.20	1966.49	-3434.46	-215.17	-123.25	0.04
1.2 Dead+1.0 Wind 60 deg+1.0 Ice	30278.20	3406.07	-1982.89	-124.00	-213.48	0.07
1.2 Dead+1.0 Wind 90 deg+1.0 Ice	30278.20	3932.99	0.00	0.55	-246.51	0.08
1.2 Dead+1.0 Wind 120 deg+1.0 Ice	30278.20	3406.07	1982.89	125.09	-213.48	0.07
1.2 Dead+1.0 Wind 150 deg+1.0 Ice	30278.20	1966.49	3434.46	216.26	-123.25	0.04
1.2 Dead+1.0 Wind 180 deg+1.0 Ice	30278.20	0.00	3965.78	249.63	0.00	0.00
1.2 Dead+1.0 Wind 210 deg+1.0 Ice	30278.20	-1966.49	3434.46	216.26	123.25	-0.04
1.2 Dead+1.0 Wind 240 deg+1.0 Ice	30278.20	-3406.07	1982.89	125.09	213.48	-0.07
1.2 Dead+1.0 Wind 270 deg+1.0 Ice	30278.20	-3932.99	0.00	0.55	246.51	-0.08
1.2 Dead+1.0 Wind 300 deg+1.0 Ice	30278.20	-3406.07	-1982.89	-124.00	213.48	-0.07
1.2 Dead+1.0 Wind 330 deg+1.0 Ice	30278.20	-1966.49	-3434.46	-215.17	123.25	-0.04
Dead+Wind 0 deg - Service	16807.25	0.00	-3655.49	-236.78	0.00	0.00

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Load Combination	Vertical lb	Shear _x lb	Shear _z lb	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
Dead+Wind 30 deg - Service	16807.25	1805.16	-3165.75	-205.04	-116.70	0.04
Dead+Wind 60 deg - Service	16807.25	3126.63	-1827.75	-118.33	-202.14	0.08
Dead+Wind 90 deg - Service	16807.25	3610.32	0.00	0.12	-233.41	0.09
Dead+Wind 120 deg - Service	16807.25	3126.63	1827.75	118.57	-202.14	0.08
Dead+Wind 150 deg - Service	16807.25	1805.16	3165.75	205.28	-116.70	0.04
Dead+Wind 180 deg - Service	16807.25	0.00	3655.49	237.02	0.00	0.00
Dead+Wind 210 deg - Service	16807.25	-1805.16	3165.75	205.28	116.70	-0.04
Dead+Wind 240 deg - Service	16807.25	-3126.63	1827.75	118.57	-202.14	-0.08
Dead+Wind 270 deg - Service	16807.25	-3610.32	0.00	0.12	233.41	-0.09
Dead+Wind 300 deg - Service	16807.25	-3126.63	-1827.75	-118.33	202.14	-0.08
Dead+Wind 330 deg - Service	16807.25	-1805.16	-3165.75	-205.04	116.70	-0.04
1.2 Dead+1.0 Ev+1.0 Eh 0 deg	20473.46	0.00	-643.78	-43.08	0.00	0.00
0.9 Dead-1.0 Ev+1.0 Eh 0 deg	14821.76	0.00	-643.78	-42.89	0.00	0.00
1.2 Dead+1.0 Ev+1.0 Eh 30 deg	20473.46	321.89	-557.53	-37.29	-21.61	0.00
0.9 Dead-1.0 Ev+1.0 Eh 30 deg	14821.76	321.89	-557.53	-37.13	-21.50	0.00
1.2 Dead+1.0 Ev+1.0 Eh 60 deg	20473.46	557.53	-321.89	-21.47	-37.43	0.00
0.9 Dead-1.0 Ev+1.0 Eh 60 deg	14821.76	557.53	-321.89	-21.39	-37.24	0.00
1.2 Dead+1.0 Ev+1.0 Eh 90 deg	20473.46	643.78	0.00	0.14	-43.23	0.00
0.9 Dead-1.0 Ev+1.0 Eh 90 deg	14821.76	643.78	0.00	0.11	-43.00	0.00
1.2 Dead+1.0 Ev+1.0 Eh 120 deg	20473.46	557.53	321.89	21.75	-37.43	0.00
0.9 Dead-1.0 Ev+1.0 Eh 120 deg	14821.76	557.53	321.89	21.60	-37.24	0.00
1.2 Dead+1.0 Ev+1.0 Eh 150 deg	20473.46	321.89	557.53	37.58	-21.61	0.00
0.9 Dead-1.0 Ev+1.0 Eh 150 deg	14821.76	321.89	557.53	37.34	-21.50	0.00
1.2 Dead+1.0 Ev+1.0 Eh 180 deg	20473.46	0.00	643.78	43.37	0.00	0.00
0.9 Dead-1.0 Ev+1.0 Eh 180 deg	14821.76	0.00	643.78	43.10	0.00	0.00
1.2 Dead+1.0 Ev+1.0 Eh 210 deg	20473.46	-321.89	557.53	37.58	21.61	-0.00
0.9 Dead-1.0 Ev+1.0 Eh 210 deg	14821.76	-321.89	557.53	37.34	21.50	-0.00
1.2 Dead+1.0 Ev+1.0 Eh 240 deg	20473.46	-557.53	321.89	21.75	37.43	-0.00
0.9 Dead-1.0 Ev+1.0 Eh 240 deg	14821.76	-557.53	321.89	21.60	37.24	-0.00
1.2 Dead+1.0 Ev+1.0 Eh 270 deg	20473.46	-643.78	0.00	0.14	43.23	-0.00
0.9 Dead-1.0 Ev+1.0 Eh 270 deg	14821.76	-643.78	0.00	0.11	43.00	-0.00
1.2 Dead+1.0 Ev+1.0 Eh 300 deg	20473.46	-557.53	-321.89	-21.47	37.43	-0.00
0.9 Dead-1.0 Ev+1.0 Eh 300 deg	14821.76	-557.53	-321.89	-21.39	37.24	-0.00
1.2 Dead+1.0 Ev+1.0 Eh 330 deg	20473.46	-321.89	-557.53	-37.29	21.61	-0.00
0.9 Dead-1.0 Ev+1.0 Eh 330 deg	14821.76	-321.89	-557.53	-37.13	21.50	-0.00

Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX lb	PY lb	PZ lb	PX lb	PY lb	PZ lb	
1	0.00	-16807.25	0.00	0.00	16807.25	0.00	0.000%

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Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX lb	PY lb	PZ lb	PX lb	PY lb	PZ lb	
2	0.00	-20168.70	-16342.20	0.00	20168.70	16342.21	0.000%
3	0.00	-15126.52	-16342.20	0.00	15126.52	16342.20	0.000%
4	8070.13	-20168.70	-14152.76	-8070.13	20168.70	14152.76	0.000%
5	8070.13	-15126.52	-14152.76	-8070.13	15126.52	14152.76	0.000%
6	13977.87	-20168.70	-8171.10	-13977.87	20168.70	8171.10	0.000%
7	13977.87	-15126.52	-8171.10	-13977.87	15126.52	8171.10	0.000%
8	16140.25	-20168.70	0.00	-16140.25	20168.70	-0.00	0.000%
9	16140.25	-15126.52	0.00	-16140.25	15126.52	-0.00	0.000%
10	13977.87	-20168.70	8171.10	-13977.87	20168.70	-8171.10	0.000%
11	13977.87	-15126.52	8171.10	-13977.87	15126.52	-8171.10	0.000%
12	8070.13	-20168.70	14152.76	-8070.13	20168.70	-14152.76	0.000%
13	8070.13	-15126.52	14152.76	-8070.13	15126.52	-14152.76	0.000%
14	0.00	-20168.70	16342.20	0.00	20168.70	-16342.21	0.000%
15	0.00	-15126.52	16342.20	0.00	15126.52	-16342.20	0.000%
16	-8070.13	-20168.70	14152.76	8070.13	20168.70	-14152.76	0.000%
17	-8070.13	-15126.52	14152.76	8070.13	15126.52	-14152.76	0.000%
18	-13977.87	-20168.70	8171.10	13977.87	20168.70	-8171.10	0.000%
19	-13977.87	-15126.52	8171.10	13977.87	15126.52	-8171.10	0.000%
20	-16140.25	-20168.70	0.00	16140.25	20168.70	-0.00	0.000%
21	-16140.25	-15126.52	0.00	16140.25	15126.52	-0.00	0.000%
22	-13977.87	-20168.70	-8171.10	13977.87	20168.70	8171.10	0.000%
23	-13977.87	-15126.52	-8171.10	13977.87	15126.52	8171.10	0.000%
24	-8070.13	-20168.70	-14152.76	8070.13	20168.70	14152.76	0.000%
25	-8070.13	-15126.52	-14152.76	8070.13	15126.52	14152.76	0.000%
26	0.00	-30278.20	0.00	0.00	30278.20	0.00	0.000%
27	0.00	-30278.20	-3965.78	0.00	30278.20	3965.78	0.000%
28	1966.49	-30278.20	-3434.46	-1966.49	30278.20	3434.46	0.000%
29	3406.07	-30278.20	-1982.89	-3406.07	30278.20	1982.89	0.000%
30	3932.99	-30278.20	0.00	-3932.99	30278.20	-0.00	0.000%
31	3406.07	-30278.20	1982.89	-3406.07	30278.20	-1982.89	0.000%
32	1966.49	-30278.20	3434.46	-1966.49	30278.20	-3434.46	0.000%
33	0.00	-30278.20	3965.78	0.00	30278.20	-3965.78	0.000%
34	-1966.49	-30278.20	3434.46	1966.49	30278.20	-3434.46	0.000%
35	-3406.07	-30278.20	1982.89	3406.07	30278.20	-1982.89	0.000%
36	-3932.99	-30278.20	0.00	3932.99	30278.20	-0.00	0.000%
37	-3406.07	-30278.20	-1982.89	3406.07	30278.20	1982.89	0.000%
38	-1966.49	-30278.20	-3434.46	1966.49	30278.20	3434.46	0.000%
39	0.00	-16807.25	-3655.49	0.00	16807.25	3655.49	0.000%
40	1805.16	-16807.25	-3165.75	-1805.16	16807.25	3165.75	0.000%
41	3126.63	-16807.25	-1827.75	-3126.63	16807.25	1827.75	0.000%
42	3610.32	-16807.25	0.00	-3610.32	16807.25	-0.00	0.000%
43	3126.63	-16807.25	1827.75	-3126.63	16807.25	-1827.75	0.000%
44	1805.16	-16807.25	3165.75	-1805.16	16807.25	-3165.75	0.000%
45	0.00	-16807.25	3655.49	0.00	16807.25	-3655.49	0.000%
46	-1805.16	-16807.25	3165.75	1805.16	16807.25	-3165.75	0.000%
47	-3126.63	-16807.25	1827.75	3126.63	16807.25	-1827.75	0.000%
48	-3610.32	-16807.25	0.00	3610.32	16807.25	-0.00	0.000%
49	-3126.63	-16807.25	-1827.75	3126.63	16807.25	1827.75	0.000%
50	-1805.16	-16807.25	-3165.75	1805.16	16807.25	3165.75	0.000%
51	0.00	-20473.46	-643.78	0.00	20473.46	643.78	0.000%
52	0.00	-14821.76	-643.78	0.00	14821.76	643.78	0.000%
53	321.89	-20473.46	-557.53	-321.89	20473.46	557.53	0.000%
54	321.89	-14821.76	-557.53	-321.89	14821.76	557.53	0.000%
55	557.53	-20473.46	-321.89	-557.53	20473.46	321.89	0.000%
56	557.53	-14821.76	-321.89	-557.53	14821.76	321.89	0.000%
57	643.78	-20473.46	0.00	-643.78	20473.46	-0.00	0.000%
58	643.78	-14821.76	0.00	-643.78	14821.76	-0.00	0.000%
59	557.53	-20473.46	321.89	-557.53	20473.46	-321.89	0.000%
60	557.53	-14821.76	321.89	-557.53	14821.76	-321.89	0.000%
61	321.89	-20473.46	557.53	-321.89	20473.46	-557.53	0.000%
62	321.89	-14821.76	557.53	-321.89	14821.76	-557.53	0.000%

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Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX lb	PY lb	PZ lb	PX lb	PY lb	PZ lb	
63	0.00	-20473.46	643.78	0.00	20473.46	-643.78	0.000%
64	0.00	-14821.76	643.78	0.00	14821.76	-643.78	0.000%
65	-321.89	-20473.46	557.53	321.89	20473.46	-557.53	0.000%
66	-321.89	-14821.76	557.53	321.89	14821.76	-557.53	0.000%
67	-557.53	-20473.46	321.89	557.53	20473.46	-321.89	0.000%
68	-557.53	-14821.76	321.89	557.53	14821.76	-321.89	0.000%
69	-643.78	-20473.46	0.00	643.78	20473.46	-0.00	0.000%
70	-643.78	-14821.76	0.00	643.78	14821.76	-0.00	0.000%
71	-557.53	-20473.46	-321.89	557.53	20473.46	321.89	0.000%
72	-557.53	-14821.76	-321.89	557.53	14821.76	321.89	0.000%
73	-321.89	-20473.46	-557.53	321.89	20473.46	557.53	0.000%
74	-321.89	-14821.76	-557.53	321.89	14821.76	557.53	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	4	0.00000001	0.00000833
3	Yes	4	0.00000001	0.00000001
4	Yes	4	0.00000001	0.00048853
5	Yes	4	0.00000001	0.00030024
6	Yes	4	0.00000001	0.00046494
7	Yes	4	0.00000001	0.00028562
8	Yes	4	0.00000001	0.00003298
9	Yes	4	0.00000001	0.00002069
10	Yes	4	0.00000001	0.00049273
11	Yes	4	0.00000001	0.00030321
12	Yes	4	0.00000001	0.00047243
13	Yes	4	0.00000001	0.00028991
14	Yes	4	0.00000001	0.00000833
15	Yes	4	0.00000001	0.00000001
16	Yes	4	0.00000001	0.00047243
17	Yes	4	0.00000001	0.00028991
18	Yes	4	0.00000001	0.00049273
19	Yes	4	0.00000001	0.00030321
20	Yes	4	0.00000001	0.00003298
21	Yes	4	0.00000001	0.00002069
22	Yes	4	0.00000001	0.00046494
23	Yes	4	0.00000001	0.00028562
24	Yes	4	0.00000001	0.00048853
25	Yes	4	0.00000001	0.00030024
26	Yes	4	0.00000001	0.00000001
27	Yes	4	0.00000001	0.00000737
28	Yes	4	0.00000001	0.00002163
29	Yes	4	0.00000001	0.00001967
30	Yes	4	0.00000001	0.00000834
31	Yes	4	0.00000001	0.00002252
32	Yes	4	0.00000001	0.00002044
33	Yes	4	0.00000001	0.00000743
34	Yes	4	0.00000001	0.00002044
35	Yes	4	0.00000001	0.00002252
36	Yes	4	0.00000001	0.00000834
37	Yes	4	0.00000001	0.00001967
38	Yes	4	0.00000001	0.00002163
39	Yes	4	0.00000001	0.00000001

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40	Yes	4	0.0000001	0.0000001
41	Yes	4	0.0000001	0.0000001
42	Yes	4	0.0000001	0.0000001
43	Yes	4	0.0000001	0.0000001
44	Yes	4	0.0000001	0.0000001
45	Yes	4	0.0000001	0.0000001
46	Yes	4	0.0000001	0.0000001
47	Yes	4	0.0000001	0.0000001
48	Yes	4	0.0000001	0.0000001
49	Yes	4	0.0000001	0.0000001
50	Yes	4	0.0000001	0.0000001
51	Yes	4	0.0000001	0.0000001
52	Yes	4	0.0000001	0.0000001
53	Yes	4	0.0000001	0.0000001
54	Yes	4	0.0000001	0.0000001
55	Yes	4	0.0000001	0.0000001
56	Yes	4	0.0000001	0.0000001
57	Yes	4	0.0000001	0.0000001
58	Yes	4	0.0000001	0.0000001
59	Yes	4	0.0000001	0.0000001
60	Yes	4	0.0000001	0.0000001
61	Yes	4	0.0000001	0.0000001
62	Yes	4	0.0000001	0.0000001
63	Yes	4	0.0000001	0.0000001
64	Yes	4	0.0000001	0.0000001
65	Yes	4	0.0000001	0.0000001
66	Yes	4	0.0000001	0.0000001
67	Yes	4	0.0000001	0.0000001
68	Yes	4	0.0000001	0.0000001
69	Yes	4	0.0000001	0.0000001
70	Yes	4	0.0000001	0.0000001
71	Yes	4	0.0000001	0.0000001
72	Yes	4	0.0000001	0.0000001
73	Yes	4	0.0000001	0.0000001
74	Yes	4	0.0000001	0.0000001

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	82 - 39.375	5.531	45	0.549	0.001
L2	43.625 - 1	1.667	45	0.353	0.000

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
80.69	CCISeismic Tower Section 1 - 1	45	5.380	0.544	0.001	40378
80.00	14' Modified Platform w/ Rail w/o Mount Pipes	45	5.300	0.541	0.001	40378
78.00	PLK5 Kicker	45	5.070	0.532	0.001	40378
76.00	PLK7 Collar Mount	45	4.841	0.523	0.001	33648
74.38	CCISeismic Tower Section 1 - 2	45	4.656	0.516	0.001	26477
67.00	CCISeismic (12) general cable 1	45	3.835	0.482	0.001	13459

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Elevation	Appurtenance	Gov. Load Comb.	Deflection	Tilt	Twist	Radius of Curvature
ft			in	°	°	ft
64.38	5/8" Coax From 0 to 79 (61ft to71ft)	45	3.553	0.470	0.001	11454
61.00	CCISEismic Tower Section 1 - 3	45	3.202	0.453	0.000	9614
	Commscope MC-PK8-DSH Snub Nose Platform w/Rail w/o Mount Pipe (SES)					
57.00	CCISEismic (12) general cable 1	45	2.804	0.433	0.000	8075
	5/8" Coax From 0 to 79 (51ft to61ft)					
56.50	CCISEismic Hybrid From 0 to 60 (51ft to60ft)	45	2.755	0.430	0.000	7917
54.38	CCISEismic Tower Section 1 - 4	45	2.555	0.418	0.000	7308
47.00	CCISEismic (12) general cable 1	45	1.921	0.375	0.000	5777
	5/8" Coax From 0 to 79 (41ft to51ft)					
44.38	CCISEismic Tower Section 1 - 5	45	1.721	0.358	0.000	5508
42.31	CCISEismic Tower Section 2 - 1	45	1.575	0.345	0.000	5522
37.00	CCISEismic (12) general cable 1	45	1.240	0.307	0.000	6228
	5/8" Coax From 0 to 79 (31ft to41ft)					
36.00	CCISEismic Tower Section 2 - 2	45	1.184	0.300	0.000	6406
27.00	CCISEismic (12) general cable 1	45	0.752	0.229	0.000	8624
	5/8" Coax From 0 to 79 (21ft to31ft)					
26.00	CCISEismic Tower Section 2 - 3	45	0.712	0.221	0.000	8969
17.00	CCISEismic (12) general cable 1	45	0.403	0.144	0.000	14014
	5/8" Coax From 0 to 79 (11ft to21ft)					
16.00	CCISEismic Tower Section 2 - 4	45	0.374	0.135	0.000	14948
7.00	CCISEismic (12) general cable 1	45	0.139	0.055	0.000	37370
	5/8" Coax From 0 to 79 (1ft to11ft)					
6.00	CCISEismic Tower Section 2 - 5	45	0.116	0.046	0.000	44844
1.50	CCISEismic (12) general cable 1	45	0.011	0.005	0.000	44844
	5/8" Coax From 0 to 79 (0ft to1ft)					

Maximum Tower Deflections - Design Wind

Section No.	Elevation	Horz. Deflection	Gov. Load Comb.	Tilt	Twist
	ft	in		°	°
L1	82 - 39.375	24.792	14	2.463	0.003
L2	43.625 - 1	7.472	14	1.585	0.001

Critical Deflections and Radius of Curvature - Design Wind

Elevation	Appurtenance	Gov. Load Comb.	Deflection	Tilt	Twist	Radius of Curvature
ft			in	°	°	ft
80.69	CCISEismic Tower Section 1 - 1	14	24.114	2.437	0.003	9033
80.00	14' Modified Platform w/ Rail w/o Mount Pipes	14	23.759	2.424	0.003	9033
	PLK5 Kicker	14	22.728	2.385	0.003	9033
76.00	PLK7 Collar Mount	14	21.701	2.345	0.003	7528
74.38	CCISEismic Tower Section 1 - 2	14	20.872	2.313	0.003	5923
67.00	CCISEismic (12) general cable 1	14	17.191	2.163	0.002	3010
	5/8" Coax From 0 to 79 (61ft to71ft)					
64.38	CCISEismic Tower Section 1 - 3	14	15.928	2.107	0.002	2562
61.00	Commscope MC-PK8-DSH Snub	14	14.352	2.032	0.002	2150

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Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
	Nose Platform w/Rail w/o Mount Pipe (SES)					
57.00	CCISeismic (12) general cable 1 5/8" Coax From 0 to 79 (51ft to 61ft)	14	12.568	1.939	0.002	1805
56.50	CCISeismic Hybrid From 0 to 60 (51ft to 60ft)	14	12.352	1.927	0.002	1770
54.38	CCISeismic Tower Section 1 - 4	14	11.454	1.876	0.002	1633
47.00	CCISeismic (12) general cable 1 5/8" Coax From 0 to 79 (41ft to 51ft)	14	8.611	1.682	0.001	1291
44.38	CCISeismic Tower Section 1 - 5	14	7.715	1.607	0.001	1230
42.31	CCISeismic Tower Section 2 - 1	14	7.060	1.545	0.001	1233
37.00	CCISeismic (12) general cable 1 5/8" Coax From 0 to 79 (31ft to 41ft)	14	5.561	1.377	0.001	1391
36.00	CCISeismic Tower Section 2 - 2	14	5.307	1.344	0.001	1430
27.00	CCISeismic (12) general cable 1 5/8" Coax From 0 to 79 (21ft to 31ft)	14	3.372	1.028	0.001	1925
26.00	CCISeismic Tower Section 2 - 3	14	3.191	0.991	0.001	2002
17.00	CCISeismic (12) general cable 1 5/8" Coax From 0 to 79 (11ft to 21ft)	14	1.807	0.646	0.000	3128
16.00	CCISeismic Tower Section 2 - 4	14	1.675	0.607	0.000	3336
7.00	CCISeismic (12) general cable 1 5/8" Coax From 0 to 79 (1ft to 11ft)	14	0.625	0.245	0.000	8340
6.00	CCISeismic Tower Section 2 - 5	14	0.518	0.204	0.000	10008
1.50	CCISeismic (12) general cable 1 5/8" Coax From 0 to 79 (0ft to 1ft)	14	0.051	0.020	0.000	10008

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
L1	82 - 39.375 (1)	TP29.99x20.72x0.31	42.63	0.00	0.0	28.52	-11435.70	1668550.00	0.007
L2	39.375 - 1 (2)	TP37.5x28.44x0.38	42.63	0.00	0.0	44.19	-20157.30	2585000.00	0.008

Pole Bending Design Data

Section No.	Elevation ft	Size	M _{ux} kip-ft	φM _{ux} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{ux}}$	M _{uy} kip-ft	φM _{uy} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{uy}}$
L1	82 - 39.375 (1)	TP29.99x20.72x0.31	413.20	1249.31	0.331	0.00	1249.31	0.000
L2	39.375 - 1 (2)	TP37.5x28.44x0.38	1062.27	2475.98	0.429	0.00	2475.98	0.000

Pole Shear Design Data

tnxTower Semaan Engineering Solutions, LLC 1047 S. 205th St. Elkhorn, NE, 68022 Phone: (402)-289-1888 FAX: (402)-289-1861	Job	23393_Trumbull	Page	24 of 24
	Project	REV01B	Date	09:38:22 12/13/22
	Client	KGI	Designed by	TrevorK

Section No.	Elevation ft	Size	Actual V_u lb	ϕV_n lb	Ratio V_u ϕV_n	Actual T_u kip-ft	ϕT_n kip-ft	Ratio T_u ϕT_n
L1	82 - 39.375 (1)	TP29.99x20.72x0.31	14015.00	500566.00	0.028	0.00	1260.58	0.000
L2	39.375 - 1 (2)	TP37.5x28.44x0.38	16356.30	775500.00	0.021	0.00	2521.32	0.000

Pole Interaction Design Data

Section No.	Elevation ft	Ratio P_u ϕP_n	Ratio M_{ux} ϕM_{nx}	Ratio M_{uy} ϕM_{ny}	Ratio V_u ϕV_n	Ratio T_u ϕT_n	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	82 - 39.375 (1)	0.007	0.331	0.000	0.028	0.000	0.338	1.000	4.8.2 ✓
L2	39.375 - 1 (2)	0.008	0.429	0.000	0.021	0.000	0.437	1.000	4.8.2 ✓

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	θP_{allow} lb	% Capacity	Pass Fail
L1	82 - 39.375	Pole	TP29.99x20.72x0.31	1	-11435.70	1668550.00	33.8	Pass
L2	39.375 - 1	Pole	TP37.5x28.44x0.38	2	-20157.30	2585000.00	43.7	Pass
Summary								
Pole (L2)							43.7	Pass
RATING =							43.7	Pass



BU: 23393
 WO: Trumbull
 Order: REV01B

Structure:
 Rev: H

Location				
	Decimal Degrees	Deg	Min	Sec
Lat:	41.245600	+ 41	14	44.16
Long:	-73.145600	73	8	44.16

Code and Site Parameters	
Seismic Design Code:	TIA-222-H-1
Site Soil:	B Rock
Risk Category:	II
<u>USGS Seismic Reference</u>	
S _s :	0.1200 g
S ₁ :	0.1700 g
T _L :	6 s

Seismic Design Category Determination	
Importance Factor, I _e :	1
Acceleration-based site coefficient, F _a :	0.9000
Velocity-based site coefficient, F _v :	0.8000
Design spectral response acceleration short period, S _{DS} :	0.0907 g
Design spectral response acceleration 1 s period, S _{D1} :	0.0907 g
T _s :	1.0000
Seismic Design Category Based on S _{DS} :	A
Seismic Design Category Based on S _{D1} :	B
Seismic Design Category Based on S ₁ :	N/A
Controlling Seismic Design Category:	



BU: 23393
 WO: Trumbull
 Order: REV01B

Structure:
 Rev: H

Tower Details

Tower Type: Tapered Monopole
 Height, h: 81 ft
 Effective Seismic Weight, W: 16.81 kips
 Amplification Factor, A_s: 1.0 2.7.8.1

Seismic Base Shear

Response Modification Factor, R: 1.5

Discrete Appurtenance Weight in Top 1/3 of Structure, W_d: 5.9216273 kips
 W_L: 10.88524846 kips
 E: 29000.0 ksi
 g: 386.088 in/s²
 Average Moment of Inertia, I_{avg}: 3680.21637 in⁴
 F₀: 0.633712656 hz
 Approximate Fundamental Period Monopole, T_a: 1.5780 s 2.7.7.1.3.3

Seismic Response Coefficient, C_s: 0.0604 2.7.7.1.1
 Seismic Response Coefficient Max 1, C_{smax}: 0.0383 2.7.7.1.1
 Seismic Response Coefficient Max 2, C_{smax}: N/A 2.7.7.1.1
 Seismic Response Coefficient Min 1, C_{smin}: 0.0300 2.7.7.1.1
 Seismic Response Coefficient Min 2, C_{smin}: N/A 2.7.7.1.1
 Controlling Seismic Response Coefficient, C_{sc}: 0.0383

Seismic Base Shear, V: [redacted] kips 2.7.7.1.1

Vertical Distribution Factors

Period Related Exponent, k: 1.539
 Sum of w_ih_i^k: 7478.46

Tower Section Load								
Section Number	Length	Top Height	Mid Height, h _m	Section Weight, w	w/h _m	C _v	F _v	F _h
1-2	10.00	78.38	73.38	0.7447	553.45	0.0740	0.0476	0.0135
1-4	10.00	58.38	53.38	0.8916	406.01	0.0543	0.0350	0.0162
2-1	2.63	42.63	41.31	0.3014	92.52	0.0124	0.0080	0.0055
2-3	10.00	30.00	25.00	1.2884	182.60	0.0244	0.0157	0.0234
2-5	10.00	10.00	5.00	1.4605	17.39	0.0023	0.0015	0.0265
Sum								

Name	h _c	w _c	w _h	C _v	F _v	F _h
verizon PLKS Kicker	77.00	0.0970	77.64	0.0104	0.0067	0.0018
(4) amphenol BXA-70080/8CF w/8' Mount Pipe	79.00	0.2773	230.87	0.0309	0.0199	0.0050
(4) amphenol BXA-70080/8CF w/8' Mount Pipe	79.00	0.2773	230.87	0.0309	0.0199	0.0050
semaan OVP Box	79.00	0.0200	16.65	0.0022	0.0014	0.0004
(2) semaan RRH 3JR52709AA 2X60 (AWS 60W)	79.00	0.1100	91.59	0.0122	0.0079	0.0020
(2) semaan RRH 3JR52709AA 2X60 (AWS 60W)	79.00	0.1100	91.59	0.0122	0.0079	0.0020
semaan RRH 4X30-4T4R-B13	79.00	0.0326	27.14	0.0036	0.0023	0.0006
semaan RRH 4x30-4T4R-B25	79.00	0.0510	42.46	0.0057	0.0037	0.0009
semaan RRH 4x30-4T4R-B25	79.00	0.0510	42.46	0.0057	0.0037	0.0009
(4) semaan TMA 10"x7"x2"	79.00	0.0400	33.31	0.0045	0.0029	0.0007
(4) semaan RRUS A2 Modules	79.00	0.0845	70.47	0.0094	0.0061	0.0015
(4) semaan RRUS A2 Modules	79.00	0.0845	70.47	0.0094	0.0061	0.0015
Ima MX08FR0665-21 w/8' Mount Pipe	60.00	0.1108	60.42	0.0081	0.0052	0.0020
Ima MX08FR0665-21 w/8' Mount Pipe	60.00	0.1108	60.42	0.0081	0.0052	0.0020
fujitsu TA08025-B604	60.00	0.0640	34.89	0.0047	0.0030	0.0012
fujitsu TA08025-B605	60.00	0.0750	40.89	0.0055	0.0035	0.0014
fujitsu TA08025-B605	60.00	0.0750	40.89	0.0055	0.0035	0.0014
(2) tower mounts 8"x2" Pipe	60.00	0.0584	31.86	0.0043	0.0027	0.0011
(2) tower mounts 8"x2" Pipe	60.00	0.0584	31.86	0.0043	0.0027	0.0011
Sum						

Name	Start Height	End Height	h_c	w_c	w/h_c	C_c	F_c	F_{c1}
(12) general cable 1 5/8" Coax From 0 to 79	61.00	71.00	66.00	0.1248	78.79	0.0105	0.0068	0.0023
(12) general cable 1 5/8" Coax From 0 to 79	41.00	51.00	46.00	0.1248	45.21	0.0060	0.0039	0.0023
(12) general cable 1 5/8" Coax From 0 to 79	21.00	31.00	26.00	0.1248	18.79	0.0025	0.0016	0.0023
(12) general cable 1 5/8" Coax From 0 to 79	1.00	11.00	6.00	0.1248	1.97	0.0003	0.0002	0.0023
(4) general cable 1 5/8" Hybrid Cable From 0 to 79	71.00	79.00	75.00	0.0570	43.78	0.0059	0.0038	0.0010
(4) general cable 1 5/8" Hybrid Cable From 0 to 79	51.00	61.00	56.00	0.0712	34.91	0.0047	0.0030	0.0013
(4) general cable 1 5/8" Hybrid Cable From 0 to 79	31.00	41.00	36.00	0.0712	17.69	0.0024	0.0015	0.0013
(4) general cable 1 5/8" Hybrid Cable From 0 to 79	11.00	21.00	16.00	0.0712	5.08	0.0007	0.0004	0.0013
(4) general cable 1 5/8" Hybrid Cable From 0 to 79	0.00	1.00	0.50	0.0071	0.00	0.0000	0.0000	0.0001
Hybrid From 0 to 60	41.00	51.00	46.00	0.0178	6.45	0.0009	0.0006	0.0003
Hybrid From 0 to 60	21.00	31.00	26.00	0.0178	2.68	0.0004	0.0002	0.0003
Hybrid From 0 to 60	1.00	11.00	6.00	0.0178	0.28	0.0000	0.0000	0.0003
Sum								

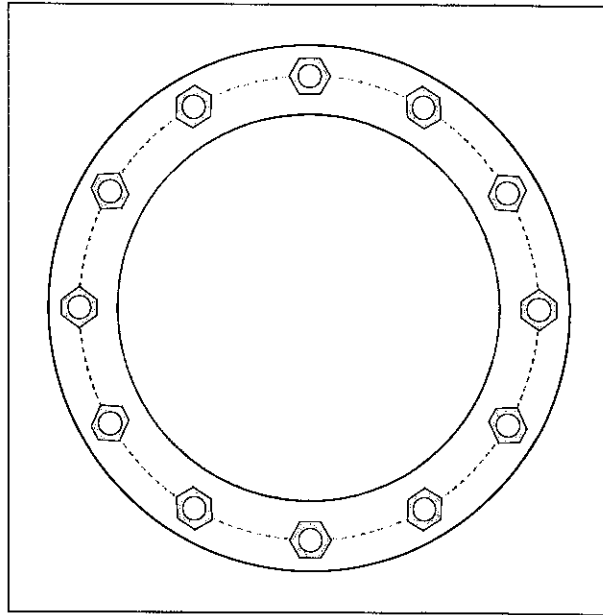
Monopole Base Plate Connection



Site Info	
BU #	23393
Site Name	Trumbull
Order #	

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
l_{ar} (in)	0

Applied Loads	
Moment (kip-ft)	1062.26
Axial Force (kips)	20.16
Shear Force (kips)	16.36

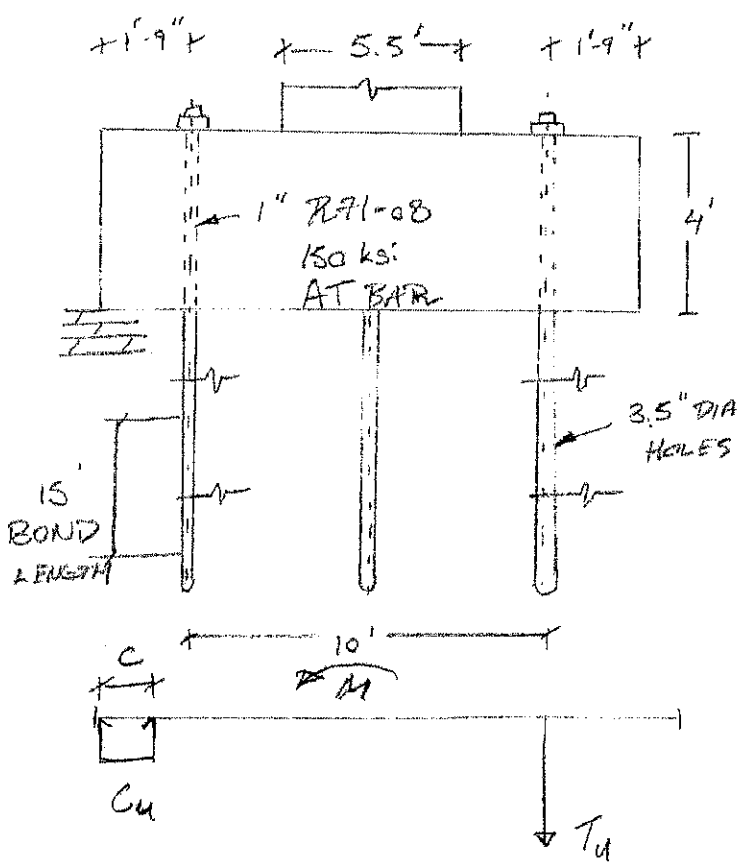


Connection Properties	Analysis Results
-----------------------	------------------

Anchor Rod Data
(12) 2-1/4" ϕ bolts (A615-75 N; $F_y=75$ ksi, $F_u=100$ ksi) on 45" BC
Base Plate Data
51" OD x 2.5" Plate (A572-50; $F_y=50$ ksi, $F_u=65$ ksi)
Stiffener Data
N/A
Pole Data
37.5" x 0.375" 18-sided pole (A572-65; $F_y=65$ ksi, $F_u=80$ ksi)

Anchor Rod Summary	<i>(units of kips, kip-in)</i>	
$Pu_t = 92.65$	$\phi Pn_t = 243.75$	Stress Rating
$Vu = 1.36$	$\phi Vn = 149.1$	38.0%
$Mu = n/a$	$\phi Mn = n/a$	Pass
Base Plate Summary		
Max Stress (ksi):	14.25	(Flexural)
Allowable Stress (ksi):	45	
Stress Rating:	31.7%	Pass

DATE 2/15/2022
 BY TMK
 PROJECT 23393 **REV01B**
 CUSTOMER _____



$$M_u = 1062.3 \text{ k-ft} \quad P_u = 20.2 \text{ k}$$

$$\frac{T_u}{4} = \frac{1062.3 \text{ k-ft}}{(11.75' - \frac{4.33''}{12})}$$

$$= 93.27 \text{ k} < (3) \cdot 65 \text{ k} = 195 \text{ k}^*$$

* CONSIDER LOCK-OFF LOAD OF 65 k FOR ANCHORS AS MAX TENSION

FOUNDATION CAPACITY

$$A_s = (0.853 \text{ in}^2) \cdot 3 = 2.559 \text{ in}^2$$

$$a = \frac{3 \cdot 65 \text{ k}}{40 \text{ ksi} \cdot b} = \frac{195 \text{ k}}{40 \text{ ksi} \cdot \frac{13.5}{12}} = 4.33''$$

$$c = \frac{a}{0.85} = 5.094''$$

$$\epsilon_s = \left(\frac{141'' - 5.094''}{5.094''} \right) \cdot 0.003 = 0.08$$

CONSIDER (3) ANCHORS

$$\phi M_n = 0.9 \cdot (3 \cdot 65 \text{ k}) \left(141'' - \frac{4.33''}{2} \right) = 24365 \text{ k-in} > 0.0021 \text{ STEEL YIELDS}$$

$$= 2030.46 \text{ k-ft} > 1062.3 \text{ k-ft}$$

CONSIDER (5) ANCHORS

$$\phi M_n = 0.9 \left[(3 \cdot 65 \text{ k}) \left(141'' - \frac{8.29''}{2} \right) + (2 \cdot 65 \text{ k}) \left(81'' - \frac{8.29''}{2} \right) \right] / 12$$

$$= 2750.84 \text{ k-ft} > 1062.3 \text{ k-ft}$$

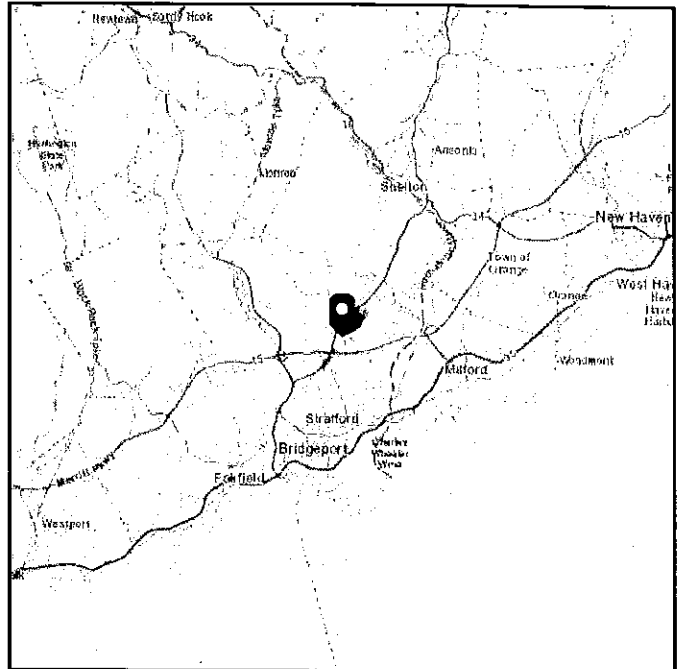
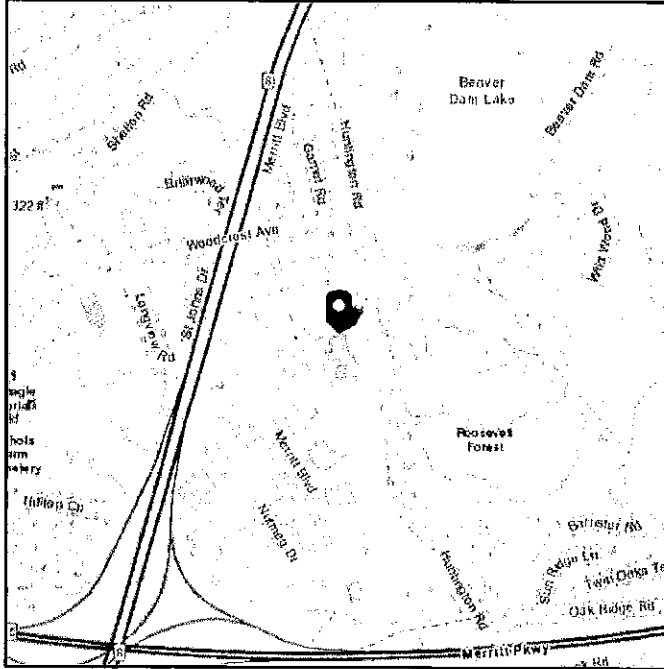
Municipality	Basic Design Wind Speeds, V (mph)				Allowable Stress Design Wind Speeds, V_{asd} (mph)				Ground Snow Load P_g (psf)	MCE Ground Accelerations		Wind-Borne Debris Region ¹		Hurricane- Prone Region
	Risk Cat. I	Risk Cat. II	Risk Cat. III	Risk Cat. IV	Risk Cat. I	Risk Cat. II	Risk Cat. III	Risk Cat. IV		S_s (g)	S_I (g)	Risk Cat. III Occup. I-2	Risk Cat. IV	
Sherman	110	115	125	130	85	89	97	101	35	0.203	0.055			
Simsbury	110	120	125	130	85	93	97	101	35	0.177	0.054			Yes
Somers	110	120	130	135	85	93	101	105	35	0.174	0.055			Yes
South Windsor	110	120	130	135	85	93	101	105	30	0.183	0.055			Yes
Southbury	110	120	130	130	85	93	101	101	35	0.199	0.054			Yes
Southington	110	120	130	135	85	93	101	105	30	0.196	0.055			Yes
Sprague	115	125	135	140	89	97	105	108	30	0.191	0.054			Yes
Stafford	110	120	130	135	85	93	101	105	35	0.176	0.055			Yes
Stamford	110	120	130	135	85	93	101	105	30	0.261	0.058	Type B		Yes
Sterling	115	125	135	140	89	97	105	108	35	0.187	0.054			Yes
Stonington	120	130	140	145	93	101	108	112	30	0.182	0.051	Type A		Yes
Stratford	110	120	130	135	85	93	101	105	30	0.206	0.054	Type B		Yes
Suffield	110	120	125	130	85	93	97	101	35	0.170	0.054			Yes
Thomaston	110	120	125	130	85	93	97	101	35	0.184	0.054			Yes
Thompson	110	120	130	135	85	93	101	105	40	0.185	0.056			Yes
Tolland	110	120	130	135	85	93	101	105	35	0.182	0.055			Yes
Torrington	110	115	125	130	85	89	97	101	40	0.175	0.054			Yes
Trumbull	110	120	130	135	85	93	101	105	30	0.210	0.054			Yes
Union	110	120	130	135	85	93	101	105	40	0.178	0.055			Yes
Vernon	110	120	130	135	85	93	101	105	30	0.186	0.055			Yes
Voluntown	120	130	135	140	93	101	105	108	30	0.188	0.053			Yes
Wallingford	110	120	130	135	85	93	101	105	30	0.205	0.055			Yes
Warren	110	115	125	130	85	89	97	101	40	0.179	0.054			Yes
Washington	110	115	125	130	85	89	97	101	35	0.189	0.054			Yes
Waterbury	110	120	130	135	85	93	101	105	35	0.193	0.054			Yes
Waterford	120	130	140	140	93	101	108	108	30	0.194	0.053	Type B	Type B	Yes
Watertown	110	120	130	130	85	93	101	101	35	0.189	0.054			Yes
West Hartford	110	120	130	135	85	93	101	105	30	0.187	0.055			Yes
West Haven	110	125	130	135	85	97	101	105	30	0.200	0.053	Type B	Type B	Yes
Westbrook	115	125	135	140	89	97	105	108	30	0.204	0.054	Type B	Type B	Yes
Weston	110	120	130	135	85	93	101	105	30	0.233	0.056			Yes
Westport	110	120	130	135	85	93	101	105	30	0.232	0.056	Type B	Type B	Yes

ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-22
Risk Category: II
Soil Class: B - Rock

Latitude: 41.2456
Longitude: -73.1456
Elevation: 168.03 ft (NAVD 88)



Wind

Results:

Wind Speed

120 Vmph - Per 2022 Connecticut Building Code



Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-22 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years). Values for 10-year MRI, 25-year MRI, 50-year MRI and 100-year MRI are Service Level wind speeds, all other wind speeds are Ultimate wind speeds.

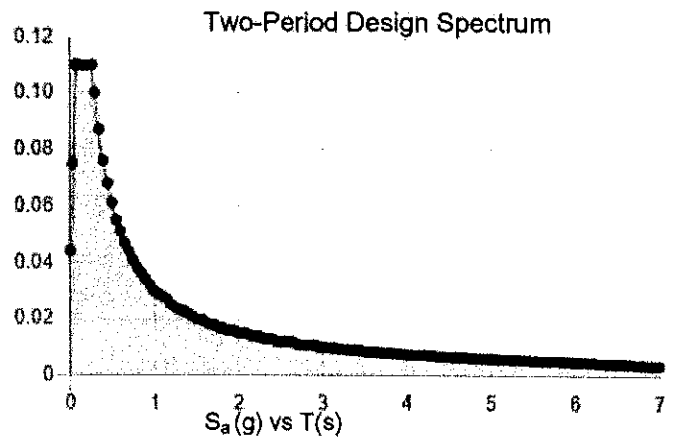
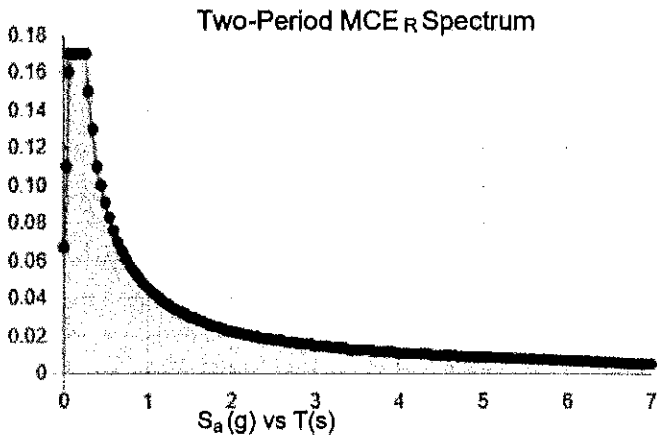
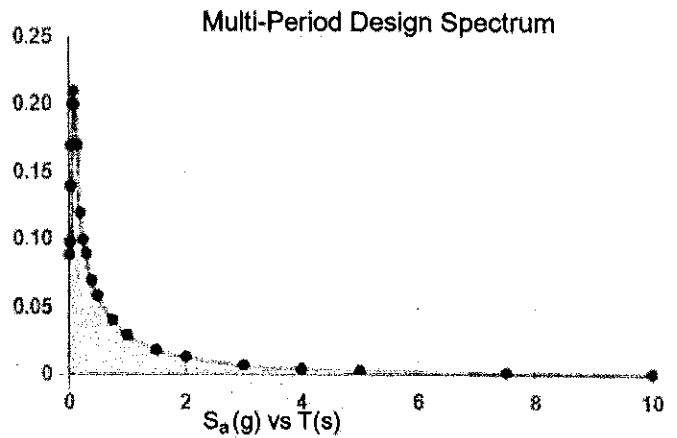
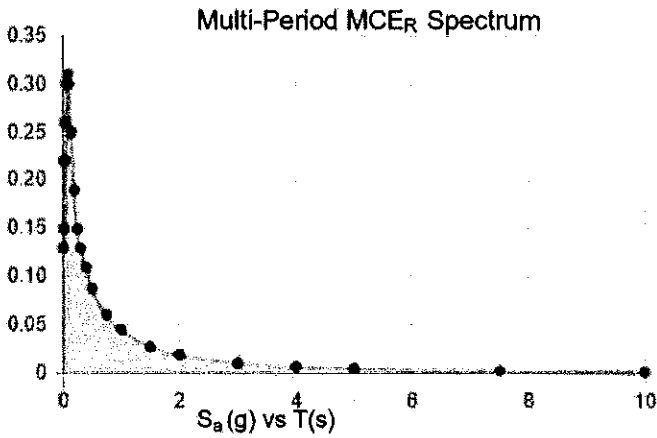
Site is in a hurricane-prone region as defined in ASCE/SEI 7-22 Section 26.2. Glazed openings need not be protected against wind-borne debris.

Site Soil Class:

Results:

PGA _M :	0.12	T _L :	6
S _{MS} :	0.17	S _S :	0.21
S _{M1} :	0.046	S ₁ :	0.047
S _{DS} :	0.11	V _{S30} :	1080
S _{D1} :	0.03		

Seismic Design Category: A



MCE_R Vertical Response Spectrum

Vertical ground motion data has not yet been made available by USGS.

Design Vertical Response Spectrum

Vertical ground motion data has not yet been made available by USGS.

Data Accessed: Thu Dec 08 2022

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-22 and ASCE/SEI 7-22 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-22 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness: 1.02 in.
Concurrent Temperature: 15 F
3-s Gust Speed 47 mph

Data Source: Standard ASCE/SEI 7-22, Figs. 10-2 through 10-8

Date Accessed: Thu Dec 08 2022

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Values provided are equivalent radial ice thicknesses due to freezing rain for 250, 500, 1,000, and 1,400-year mean recurrence intervals along with concurrent 3-s gust speeds and concurrent air temperatures. The shading indicates special icing regions, with elevations above 2,100 ft (640 m) in the east, 6,000 ft (1829 m) in the west, and 1,600 ft (488 m) in Alaska, with sparse weather station data for determining design ice loads. In these regions, as well as in regions with complex terrain causing unusual icing conditions and regions where snow or in-cloud icing results in larger loads, the mapped values should be adjusted based on a combination of local historical records and experience, reanalysis data, and numerical weather prediction systems.

The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided "as is" and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE 7 standard.

In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE 7 Hazard Tool.

Exhibit E
Lease Agreement

Lessor Site ID & No.: Trumbull SE 4 CT / 469122

Lessee Site ID & No.: NJJER01153A

CONTRACT # _____

LEASE SUPPLEMENT

This Supplement ("Supplement"), is made this 23rd day of November, 2022 (the "Supplement Effective Date"), between Cellco Partnership, a Delaware general partnership, d/b/a Verizon Wireless, with its principal offices at One Verizon Way, Mail Stop 4AW100, Basking Ridge, New Jersey 07920, hereinafter designated LESSOR and DISH Wireless L.L.C., a Colorado limited liability company, with its principal offices at 9601 S. Meridian Blvd., Englewood, Colorado 80112, hereinafter designated LESSEE.

1. This Supplement is made pursuant to that certain Master Tower Lease Agreement between Cellco Partnership d/b/a Verizon Wireless and DISH Wireless L.L.C. dated August 6, 2021 (the "Agreement"). All of the terms and conditions of the Agreement are incorporated hereby by reference and made a part hereof without the necessity of repeating or attaching the Agreement. In the event of a contradiction, modification or inconsistency between the terms of the Agreement and this Supplement, the terms of the Agreement shall govern, except as it pertains to Exhibits, Rent that is negotiated in accordance with the terms of the Agreement, and any other site specific terms that are expressly included in a Supplement. Capitalized terms used in this Supplement shall have the same meaning described for them in the Agreement unless otherwise indicated herein.

2. The Premises leased by the LESSOR to the LESSEE hereunder is described as follows:

200 square feet of Ground Space located at 60 Commerce Drive, Trumbull, Fairfield County, Connecticut 06611 for the placement of LESSEE's equipment shelter or cabinets and ancillary equipment, and certain Tower Space for the installation of LESSEE's antennas and related equipment, together with certain easements, as more particularly described on **Exhibit 1** attached hereto and made a part hereof.

3. In the event an **Exhibit 1** is attached hereto describing the Premises, the LESSEE may have the right to survey the Premises and said survey may then become **Exhibit 2** which shall be attached hereto and made a part hereof and shall control in the event of any discrepancies between it and **Exhibit 1**. The cost for such work shall be borne by the LESSEE.

4. LESSOR hereby grants permission to LESSEE to install, maintain and operate the communications equipment, antennas, technology, frequencies and appurtenances described in **Exhibit 3** attached hereto (the "LESSEE Equipment"). LESSEE reserves the right to replace, repair, augment, add or otherwise modify the LESSEE Equipment as provided in **Paragraph 4** of the Agreement.

5. If the Premises are subject to a prime lease, license or other such agreement, a copy of such agreement is attached hereto as **Exhibit 4** (the "Prime Lease"). This Supplement shall not be effective until LESSEE has approved the Prime Lease, and Lessee shall be under no obligation to proceed under this Supplement unless and until the form and substance of the Prime Lease is acceptable to LESSEE. LESSEE'S execution of this Supplement shall convey its approval of the Prime Lease.

6. The Supplement Term shall be as set forth in **Paragraph 6** of the Agreement and shall commence as set forth in **Paragraph 6** of the Agreement and if known at the time execution of this Supplement, is set forth below. LESSOR and LESSEE agree that they shall acknowledge in writing the Commencement Date using the form attached as "**Exhibit 5**" to this Supplement.

7. The Rent due for the Term of this Supplement shall be in accordance with the Agreement and shall be an annual amount of Sixteen Thousand Five Hundred Dollars (\$16,500.00) to be paid in equal monthly installments on the first day of each month, in advance, to LESSOR at Verizon Wireless, P.O. Box 64498, Baltimore, Maryland 21264-4498 or to such other person, firm or place as the LESSOR may, from time to time, designate in writing at least sixty (60) calendar days in advance of any Rent payment date. All Rent checks shall have LESSOR'S site number clearly written on the face of the check. The foregoing Rent reflects the Site Rent, any Microwave Rent, any Additional Wind Load Surface Area Rent, any Additional Ground Space Rent, and any Prime Lease Payment and shall commence on a date to be determined in accordance with **Paragraph 6** of the Agreement.

[SIGNATURE PAGE TO FOLLOW]

Lessor Site ID & No.: Trumbull SE 4 CT / 469122
Lessee Site ID & No.: NJJER01153A

CONTRACT # _____

IN WITNESS WHEREOF, the Parties hereto have set their hands and affixed their respective seals as of the Supplement Effective Date.

LESSOR:

LESSEE:

Cellco Partnership
d/b/a Verizon Wireless

DISH Wireless L.L.C.

DocuSigned by:
By: Chad Schmelzer
C89AB65CACBF4F2...

DocuSigned by:
By: Dave Mayo
F0DA1A105A664B7...

Name: Chad Schmelzer

Name: Dave Mayo

Title: Senior Manager - Network Engineering & Operations

Title: EVP

Date: 23-Nov-2022

Date: 11/9/2022

DS
MF
11/8/2022

HSG DS
HSG DS
Lt

**EXHIBIT 1 TO SUPPLEMENT
PREMISES
PAGE 1 OF 6**

LEGAL DESCRIPTION

Situated in the County of Fairfield, State of Connecticut:

Parent Parcel:

All that certain piece or parcel of land with all of the improvements thereon situated in the Town of Trumbull, County of Fairfield and State of Connecticut, containing 14.02 acres and shown on a certain map entitled "Resubdivision Plan, Lot No. 4, Commerce Drive & Huntington Road, Trumbull, Connecticut, prepared for David Mack" Prepared by J. & D. Kasper & Associates, Engineers, Surveyors, Planners, Bridgeport, Connecticut, Scale 1" = 50' dated Feb. 20, 1979, Sheet 2 of 3, on file in the Trumbull Town Clerk's Office and further shown on a revision of said map dated Dec. 4, 1981 and bounded and described as follows:

- WESTERLY:** In part, by land now or formerly of Dow Corning Corp., in part, by the terminus of Commerce Drive, as shown on said map, and in part, by land now or formerly of Optique Dumonde, Ltd., in all, 793.21 feet, said boundary having a bearing of N 19°37'25"W, the termini of said boundary being marked by iron pipes;
- NORTHWESTERLY:** By land now or formerly of Optique Dumonde, Ltd., 264.90 feet, said boundary having a bearing of N 25°32'15"E, the termini of said boundary being marked by iron pipes;
- NORTHERLY:** By land now or formerly of Christine Lundgren, 47.14 feet, said boundary having a bearing of S 79°31'53"E;
- NORTHERLY:** AGAIN, by land now or formerly of Christine Lundgren, 60.33 feet, said boundary having a bearing of N 83°40'15"E;
- NORTHERLY:** AGAIN, by land now or formerly of Christine Lundgren, 26.91 feet, said boundary having a bearing of N 77°19'39"E;
- NORTHERLY:** AGAIN, by land now or formerly of Christine Lundgren, 58.83 feet, said boundary having a bearing of N 75°33'27"E;
- NORTHERLY:** AGAIN, by land now or formerly of Christine Lundgren, 66.26 feet, said boundary having a bearing of N 77°36'19"E;
- NORTHERLY:** AGAIN, in part by land now or formerly of Christine Lundgren and in part by land now or formerly of E.V. & N.B. Bowen, in all, 51.36 feet, said boundary having a bearing of N 75°24'40"E;

**EXHIBIT 1 TO SUPPLEMENT
PREMISES
PAGE 2 OF 6**

LEGAL DESCRIPTION

- NORTHERLY:** AGAIN, by land now or formerly of E.V. & N.B. Bowen, 38.96 feet, said boundary having a bearing of N 80°42'12"E;
- NORTHERLY:** AGAIN, by land now or formerly of E.V. & N.B. Bowen, 76.08 feet, said boundary having a bearing of N 76°46'19"E, all of said northerly boundaries being the center line of a stone wall;
- EASTERLY:** In part by land now or formerly of E.J. & A.M. Overwise and in part by land now or formerly of Thomas & Carol Donegan, in all, 222.47 feet, said boundary having a bearing of S 25°36'55"E;
- EASTERLY:** AGAIN, in part by land now or formerly of Thomas & Carol Donegan, in part by land now or formerly of R.D. & L.S. Sutton, and in part by land now or formerly of M.H. & V.M. Shaw, in all, 167.89 feet, said boundary having a bearing of S 17°42'45"E;
- EASTERLY:** AGAIN, in part by land now or formerly of M.H. & V.M. Shaw and in part by land now or formerly of Doris Cheney and Linda Beeman, in all, 205.70 feet, said boundary having a bearing of S 14°15'35"E;
- EASTERLY:** AGAIN, in part by land now or formerly of Doris Cheney and Linda Beeman and in part by land now or formerly of Peter Everetts, in all, 211.25 feet, said boundary having a bearing of S 07°16'25"E;
- SOUTHEASTERLY:** By land now or formerly of Timothy & Carol Ryan, 24.59 feet, said boundary having a bearing of S 60°35'50"W, said boundary being the center line of a stone wall;
- SOUTHEASTERLY:** AGAIN, by land now or formerly of Timothy & Carol Ryan, 88.04 feet, said boundary having a bearing of S 61°24'49"W, said boundary being the center line of a stone wall;
- SOUTHEASTERLY:** AGAIN, by land now or formerly of Timothy & Carol Ryan, 12.65 feet, said boundary having a bearing of S 67°09'05"W, said boundary being the center line of a stone wall;
- EASTERLY:** AGAIN, in part by land now or formerly of Timothy and Carol Ryan and in part by land now or formerly of Robert & Carol Brumper, in all, 192.32 feet, said boundary having a bearing of S 07°52'21"W;
- NORTHERLY:** AGAIN, by land now or formerly of Robert & Carol Brumper, 4.00 feet, said boundary having a bearing of S 80°30'31"E;

**EXHIBIT 1 TO SUPPLEMENT
PREMISES
PAGE 3 OF 6**

LEGAL DESCRIPTION

- EASTERLY: AGAIN, by land now or formerly of C.B. & J.R. Kelly, 120.00 feet, said boundary having a bearing of S 01°51'40"W;
- EASTERLY: AGAIN, by land now or formerly of Walter & Brian Holinko, 251.93 feet, said boundary having a bearing of S 17°00'58"E;
- SOUTHERLY: By land now or formerly of Pauline Nemergut, 8.594 feet, said boundary having a bearing of S 77°10'51"W;
- SOUTHERLY: AGAIN, by land now or formerly of Pauline Nemergut, 96.60 feet, said boundary having a bearing of S 87°06'11"W;
- SOUTHWESTERLY: By land now or formerly of Belmar Corporation, 48.31 feet, said boundary having a bearing of N 13°55'47"W;
- SOUTHWESTERLY: AGAIN, by land now or formerly of Belmar Corporation, 66.23 feet, said boundary having a bearing of N 25°50'46"W;
- SOUTHWESTERLY: AGAIN, by land now or formerly of Belmar Corporation, 46.73 feet, said boundary having a bearing of N 33°26'08"W;
- SOUTHWESTERLY: AGAIN, by land now or formerly of Belmar Corporation, 72.44 feet, said boundary having a bearing of N 38°14'47"W;
- SOUTHWESTERLY: AGAIN, by land now or formerly of Belmar Corporation, 46.47 feet, said boundary having a bearing of N 40°31'50"W;
- SOUTHWESTERLY: AGAIN, by land now or formerly of Belmar Corporation, 75.01 feet, said boundary having a bearing of N 47°54'59"W;
- SOUTHWESTERLY: AGAIN, by land now or formerly of Belmar Corporation, 103.51 feet, said boundary having a bearing of N 45°27'05"W, all of said southwesterly boundaries being the center line of a stone wall;
- SOUTHERLY: by land now or formerly of Belmar Corporation, 58.12 feet, said boundary having a bearing of S 60°09'57"W.

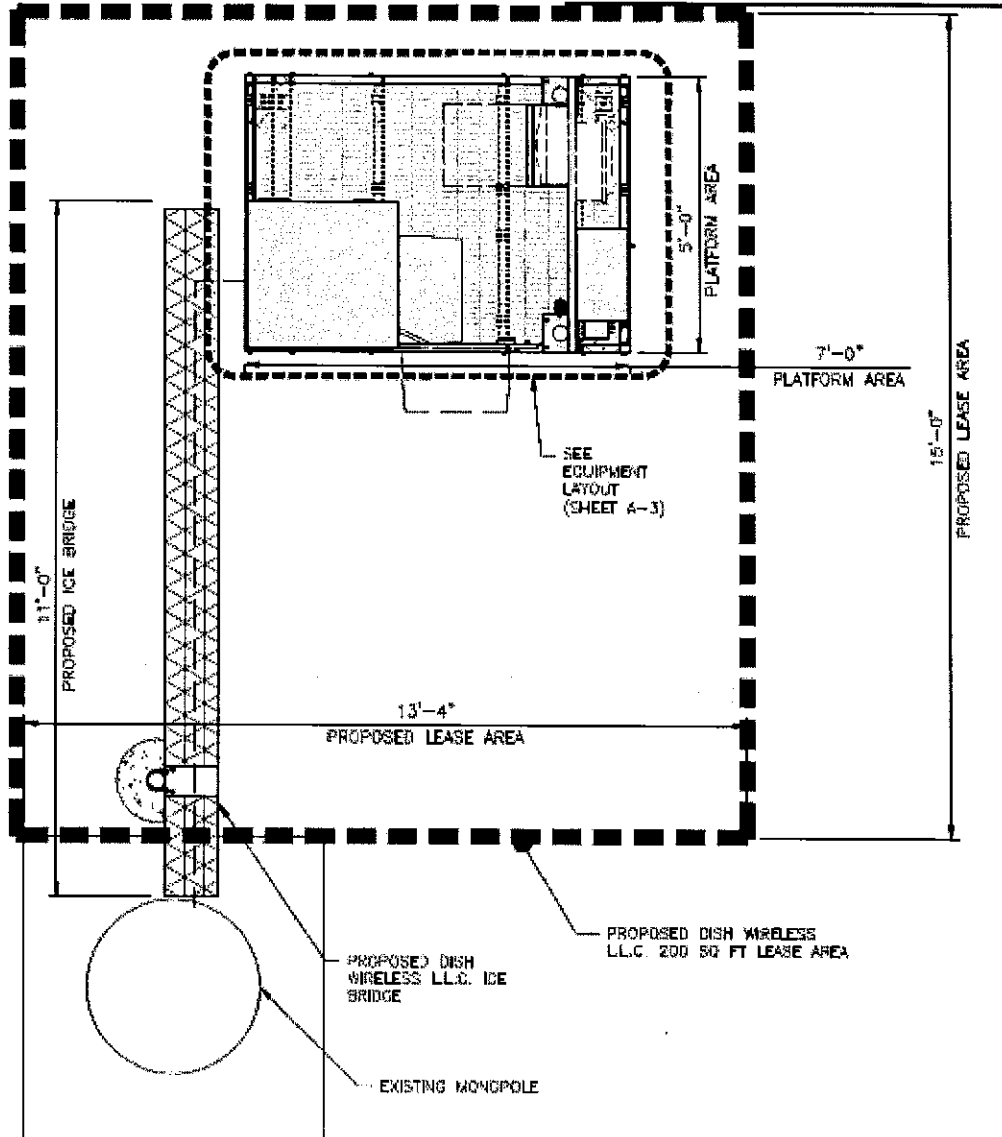
Tax I.D. Number: 00432800

Being the same property conveyed to City Park Commerce Drive, LLC, a Connecticut limited liability company and CH Commerce Drive Associates, LLC, a limited liability company, as their interests may appear, Grantee, from Pilot Corporation of America, Grantor, by deed recorded 06/25/2014, as Book 1666, Page 608 of the Trumbull Town Clerk Records.

Being the same property conveyed to City Park Commerce Drive, LLC, a Connecticut limited liability company and CH Commerce Drive Associates, LLC, a Connecticut limited liability company, as their interests may appear, Grantee, from Pilot Corporation of America, Grantor, by deed recorded 06/25/2014, as Book 1666, Page 601 of the Trumbull Town Clerk Records.

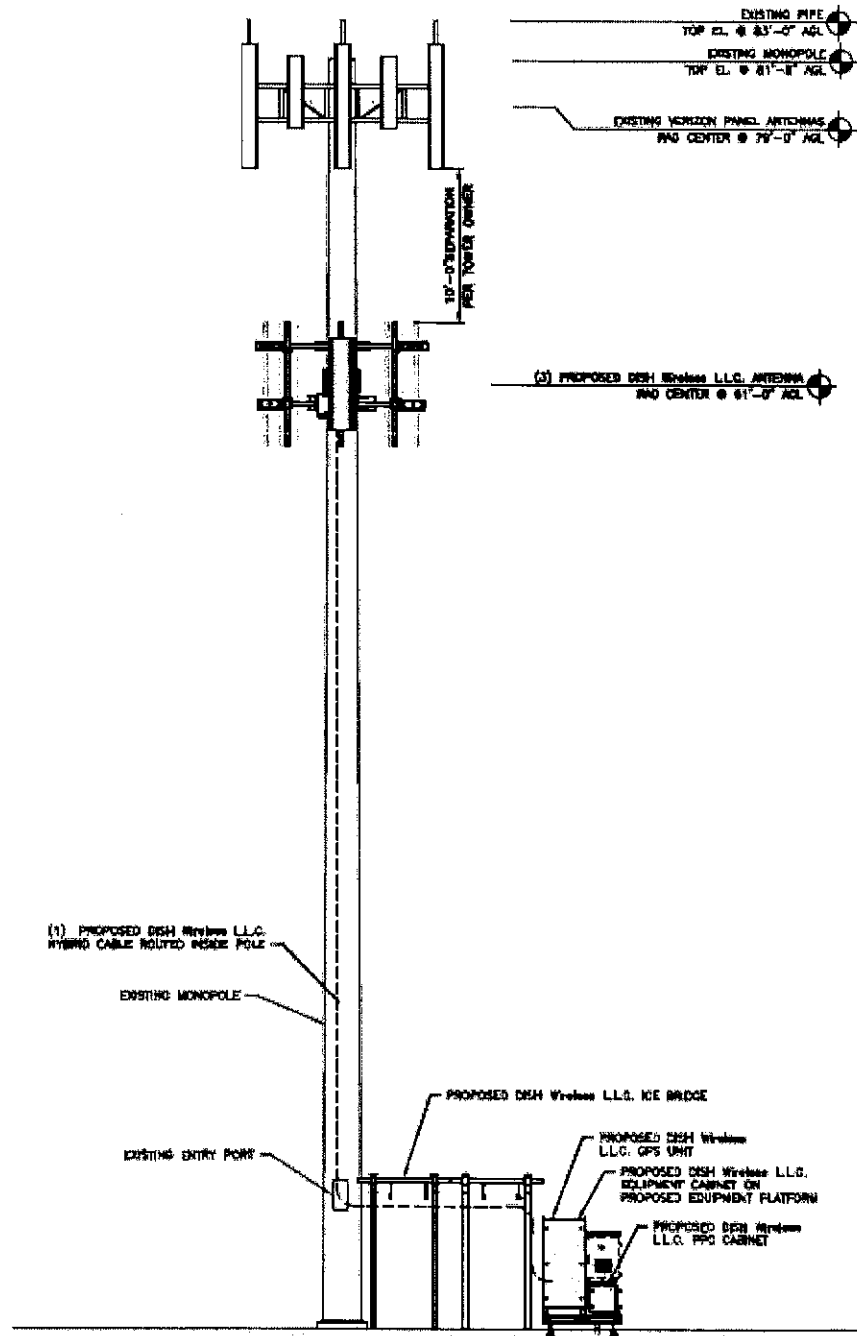
**EXHIBIT 1 TO SUPPLEMENT
PREMISES
PAGE 5 OF 6**

ENLARGED SITE PLAN



**EXHIBIT 1 TO SUPPLEMENT
PREMISES
PAGE 6 OF 6**

TOWER ELEVATION



Lessor Site ID & No.: Trumbull SE 4 CT / 469122
Lessee Site ID & No.: NJJER01153A

CONTRACT # _____

**EXHIBIT 2 TO SUPPLEMENT
SURVEY**

N/A

Lessor Site ID & No.: Trumbull SE 4 CT / 469122

Lessee Site ID & No.: NJJER01153A

CONTRACT # _____

**EXHIBIT 3 TO SUPPLEMENT
LESSEE'S COMMUNICATIONS EQUIPMENT**

Number of Antennas:	Three (3)
Antenna Manufacturer, Model and Type:	JMA (MX08FRO665-21) Panel Antennas
Dimension and Weight of Antenna:	72.0 x 20.0 x 8.0 inches & 64.5 lbs
Number of Transmission Lines (Coax and/or Hybrid):	One (1)
Diameter of Transmission Lines (Coax and/or Hybrid):	Hybrid Cable
Location of Antenna(s) (Approved RAD Center):	61'
Direction of Radiation (Azimuth):	0 / 140 / 250
MW Dish diameter:	N/A
Approved RAD Center for MW Dish:	N/A
Additional Equipment to be placed on Tower:	Three (3) Fujitsu (TA08025-B605) RRUs 15.8 x 15.0 x 9.1 inches & 75.0 lbs Three (3) Fujitsu (TA08025-B604) RRUs 15.8 x 15.0 x 7.9 inches & 63.9 lbs One (1) Raycap (RDIDC-9181-PF-48) OVP 19.0 x 14.5 x 8.0 inches & 21.9 lbs
Dimensions of Lessee's Shelter (for additional equipment not scheduled hereon):	200 SF (13'4" x 15')
Generator Specifications:	No generator proposed
Additional Ground Space for Generator	N/A

Lessor Site ID & No.: Trumbull SE 4 CT / 469122

Lessee Site ID & No.: NJER01153A

CONTRACT # _____

**EXHIBIT 4 TO SUPPLEMENT
PRIME LEASE**

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James P. White, Jr., Esq.
Pollman & Conley LLC
850 Main Street, 8th Floor
Bridgeport, CT 06604

Doc ID: 003681980007 Type: LAM
Book 1868 Page 801 - 807
File# 11103

**WARRANTY DEED
60 COMMERCE DRIVE**

11103

PILOT CORPORATION OF AMERICA, a Delaware corporation with an office at 3855 Regent Boulevard, Jacksonville, Florida 32224 (hereinafter referred to as the "Grantor") for the for consideration of [REDACTED] paid, grants to

CITY PARK COMMERCE DRIVE, LLC, a Connecticut Limited Liability Company an undivided 28.8% interest and to CH COMMERCE DRIVE ASSOCIATES, LLC a Connecticut Limited Liability Company an undivided 71.2% interest, both having an address of C/O Cambridge Hanover, Inc., 65 Locust Avenue, Suite 200, New Canaan, Connecticut 06840 (collectively hereinafter referred to as the "Grantee"), in and to

ALL THAT CERTAIN piece and parcel of land more particularly described on Schedule A attached hereto and made a part hereof, together with any and all buildings and other improvements now situated thereon (the "Premises") and subject to those exceptions to title ("Permitted Exceptions") set forth on Schedule B attached hereto and made a part hereof.

TO HAVE AND TO HOLD the Premises hereby conveyed, with the appurtenances thereof, to the Grantee and unto the Grantee's successors and assigns forever, to its and their own proper use and behoof.

AND FURTHERMORE, the Grantor will warrant and forever defend the Premises hereby conveyed, with the appurtenances thereof conveyed to the Grantee, its successors and assigns against the claims of all persons owning, holding, or claiming by, through or under the Grantor, but not otherwise.

Signed this 15th day of June, 2014.

Witnessed by:

[Signature]
witness James P. White, Jr.
[Signature]
witness Anne Marie Burke

PILOT CORPORATION OF AMERICA

By: [Signature]
Nicholas Niejelow
Its: Vice-President N.B.D.

Conveyance Tax Received
Suzanne Burr Monaco
State Town Clerk of Trumbull Town
55625⁰⁰ 11125⁰⁰

VOL 1666 PAGE 0603

SCHEDULE A

PROPERTY DESCRIPTION

All that certain piece or parcel of land with all of the improvements thereon situated in the Town of Trumbull, County of Fairfield and State of Connecticut, containing 14.02 acres and shown on a certain map entitled "Resubdivision Plan, Lot No. 4, Commerce Drive & Huntington Road, Trumbull, Connecticut, Prepared for David Mack" Prepared by J. & D. Kasper & Associates, Engineers, Surveyors, Planners, Bridgeport, Connecticut, Scale 1" = 50' dated Feb. 20, 1979, Sheet 2 of 3, on file in the Trumbull Town Clerk's Office and further shown on a revision of said map dated Dec. 4, 1981 and bounded and described as follows:

- WESTERLY: In part, by land now or formerly of Dow Corning Corp., in part, by the terminus of Commerce Drive, as shown on said map, and in part, by land now or formerly of Optique DuMonde, Ltd., in all, 793.21 feet, said boundary having a bearing of N 19°37'25"W, the termini of said boundary being marked by iron pipes;
- NORTHWESTERLY By land now or formerly of Optique DuMonde, Ltd., 264.90 feet, said boundary having a bearing of N 25°32'15"E, the termini of said boundary being marked by iron pipes;
- NORTHERLY: By land now or formerly of Christine Lundgren, 47.14 feet, said boundary having a bearing of S 79°31'53"E;
- NORTHERLY: AGAIN, by land now or formerly of Christine Lundgren, 60.33 feet, said boundary having a bearing of N 83°40'15"E;
- NORTHERLY: AGAIN, by land now or formerly of Christine Lundgren, 26.91 feet, said boundary having a bearing of N 77°19'39"E;
- NORTHERLY: AGAIN, by land now or formerly of Christine Lundgren, 58.83 feet, said boundary having a bearing of N 75°33'27"E;
- NORTHERLY: AGAIN, by land now or formerly of Christine Lundgren, 66.26 feet, said boundary having a bearing of N 77°36'19"E;
- NORTHERLY: AGAIN, in part by land now or formerly of Christine Lundgren and in part by land now or formerly of E.V. & N.B. Bowen, in all, 51.36 feet, said boundary having a bearing of N 75°24'40"E;
- NORTHERLY: AGAIN, by land now or formerly of E.V. & M.B. Bowen, 38.96 feet, said boundary having a bearing of N 80°42'12"E;
- NORTHERLY: AGAIN, by land now or formerly of E.V. & M.B. Bowen, 76.08 feet, said boundary having a bearing of N 76°46'19"E, all of said northerly boundaries being the center line of a stone wall;

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- EASTERLY: In part by land now or formerly of F.J. & A.M. Overwise and in part by land now or formerly of Thomas & Carol Donegan, in all, 222.47 feet, said boundary having a bearing of S 25°36'55"E;
- EASTERLY: AGAIN, in part by land now or formerly of Thomas & Carol Donegan, in part by land now or formerly of R.D. & L.S. Sutton, and in part by land now or formerly of M.H. & V.M. Shaw, in all, 167.89 feet, said boundary having a bearing of S 17°42'45"E;
- EASTERLY: AGAIN, in part by land now or formerly of M.H. & V.M. Shaw and in part by land now or formerly of Doris Cheney and Linda Beeman, in all, 205.70 feet, said boundary having a bearing of S 14°15'35"E;
- EASTERLY: AGAIN, in part by land now or formerly of Doris Cheney and Linda Beeman and in part by land now or formerly of Peter Everetts, in all, 211.25 feet, said boundary having a bearing of S 07°16'25"E;
- SOUTHEASTERLY: By land now or formerly of Timothy & Carol Ryan, 24.59 feet, said boundary having a bearing of S 60°35'50"W, said boundary being the center line of a stone wall;
- SOUTHEASTERLY: AGAIN, by land now or formerly of Timothy & Carol Ryan, 88.04 feet, said boundary having a bearing of S 61°24'49"W, said boundary being the center line of a stone wall;
- SOUTHEASTERLY: AGAIN, by land now or formerly of Timothy & Carol Ryan, 12.65 feet, said boundary having a bearing of S 67°09'05"W, said boundary being the center line of a stone wall;
- EASTERLY: AGAIN, in part by land now or formerly of Timothy and Carol Ryan and in part by land now or formerly of Robert & Carol Brumper, in all, 192.32 feet, said boundary having a bearing of S 07°52'21"W;
- NORTHERLY: AGAIN, by land now or formerly of Robert & Carol Brumper, 4.00 feet, said boundary having a bearing of S 80°30'31"E;
- EASTERLY: AGAIN, by land now or formerly of C.B. & J.R. Kelly, 120.00 feet, said boundary having a bearing of S 01°51'40"W;
- EASTERLY: AGAIN, by land now or formerly of Walter & Brian Holinko, 251.93 feet, said boundary having a bearing of S 17°00'58"E;
- SOUTHERLY: By land now or formerly of Pauline Nemergut, 8.594 feet, said boundary having a bearing of S 77°10'51"W;
- SOUTHERLY: AGAIN, by land now or formerly of Pauline Nemergut, 96.60 feet, said boundary having a bearing of S 87°06'11"W;

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- SOUTHWESTERLY: By land now or formerly of Belmar Corporation, 48.31 feet, said boundary having a bearing of N 13°55'47"W;
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- SOUTHWESTERLY: AGAIN, by land now or formerly of Belmar Corporation, 46.73 feet, said boundary having a bearing of N 33°26'08"W;
- SOUTHWESTERLY: AGAIN, by land now or formerly of Belmar Corporation, 72.44 feet, said boundary having a bearing of N 38°14'47"W;
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- SOUTHWESTERLY: AGAIN, by land now or formerly of Belmar Corporation, 75.01 feet, said boundary having a bearing of N 47°54'59"W;
- SOUTHWESTERLY: AGAIN, by land now or formerly of Belmar Corporation, 103.51 feet, said boundary having a bearing of N 45°27'05"W, all of said southwesterly boundaries being the center line of a stone wall;
- SOUTHERLY: By land now or formerly of Belmar Corporation, 58.12 feet, said boundary having a bearing of S 60°09'57"W.

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SCHEDULE B

PERMITTED EXCEPTIONS

1. Any and all provisions of any ordinance, municipal regulation or public or private law which regulate the use of the Premises, including but not limited to zoning, planning and building laws, rules and regulations established in and for the Town of Trumbull.
2. Real property taxes of the Town of Trumbull becoming due and payable after the date of the Deed to which this Schedule is attached.
3. Fire district taxes to the Nichols Fire District becoming due and payable after the date of the Deed to which this Schedule is attached.
4. Assessment or use fees of governmental authority from municipal or public works, becoming due and payable after the date of the Deed to which this Schedule is attached.
5. Such state of facts as would be disclosed by a current accurate survey and by a personal inspection of the Premises provided the same do not render title unmarketable.
6. An easement in favor of The United Illuminating Company dated September 21, 1964 and recorded in the Trumbull Land Records in Volume 167 at Page 364 and the document intending to correct such easement dated September 30, 1964 and recorded in said Land Records in Volume 168 at Page 19.
7. A right of way in favor of Bridgeport Hydraulic Company dated September --, 1964 and recorded in said Trumbull Land Records in Volume 167 at Page 578.
8. An easement for the installation of and maintenance of utility lines as referred to in a deed recorded in the Trumbull Land records in Volume 187 at Page 402.
9. An easement to Optique DuMonde, Limited, recorded on April 13, 1978 in Volume 392 at Page 105 of the Trumbull Land Records.
10. A Buffer Strip as shown on the above described map.
11. An encroachment, as shown on the map described in Schedule A attached hereto.
12. Rights of others in and to the brook crossing property.
13. Inland Wetlands and Water Courses Commission Notice recorded in Volume 462 at Page 449 of the Trumbull Land Records.
14. Inland Wetlands and Water Courses Commission Notice recorded in Volume 464 at Page 197 of the Trumbull Land Records.
15. Inland Wetlands and Water Courses Commission Notice recorded in Volume 488 at Page 189 of the Trumbull Land Records.

Lessor Site ID & No.: Trumbull SE 4 CT / 469122

Lessee Site ID & No.: NJJER01153A

CONTRACT # _____

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- 16. Special Permit recorded in Volume 503 at Page 10 of the Trumbull Land Records.
- 17. Special Permit recorded in Volume 544 at Page 49 of the Trumbull Land Records.
- 18. Special Permit recorded in Volume 629 at Page 402 of the Trumbull Land Records.
- 19. Access Agreement by and between Pilot Corporation of America and The Southern New England Telephone Company recorded in Volume 662 at Page 229 of the Trumbull Land Records.
- 20. Utility Easement in favor of The United Illuminating Company recorded in Volume 1579 at Page 477 of the Trumbull Land Records.
- 21. Note, Easements and Conditions as shown on Map Nos. 2063 and 2213.
- 22. Trumbull Inland Wetlands and Watercourses Commission Permit Approval dated April 10, 2012, effective April 25, 2012 and filed in the office of the Trumbull Town Clerk.
- 23. Trumbull Planning and Zoning Commission Approval dated April 26, 2012 and effective May 10, 2012 and recorded in Volume 1589 at Page 12 of the Trumbull Land Records.
- 24. Land Lease Agreement dated October 18, 2013 by and between Pilot Corporation of America ("Lessor") and Celco Partnership, d/b/a Verizon Wireless ("Lessee") as referred to in Memorandum of Land Lease Agreement dated October 18, 2013 and recorded in Volume 1651, at Page 901 of the Trumbull Land Records.

TOWN CLERK OFFICE, TRUMBULL, CT JUN 25 2014
 RECEIVED FOR RECORD
 AT 9:50 A.M. ATTEST *[Signature]*
 TOWN CLERK
[Signature]

ACTIVE/74791.8/JPW/4546238v2

Lessor Site ID & No.: Trumbull SE 4 CT / 469122

Lessee Site ID & No.: NJJER01153A

CONTRACT # _____

James P. White, Jr., Esq.
 Pullman & Comley LLC
 850 Main Street, 8th Floor
 Bridgeport, CT 06604

ASSIGNMENT AND ASSUMPTION OF LEASE

THIS ASSIGNMENT AND ASSUMPTION OF THE LEASE AND SECURITY DEPOSIT (the "Assignment") is made and entered into as of the 19th day of June, 2014 by and between PILOT CORPORATION OF AMERICA, a Delaware corporation ("Assignor"), and CITY PARK COMMERCE DRIVE, LLC and CH COMMERCE DRIVE ASSOCIATES, LLC, Connecticut limited liability companies ("collectively, Assignee").

RECITALS:

WHEREAS, Assignor and Assignee entered into that certain Purchase and Sale Agreement, dated as of April 15, 2014, and as amended from time to time (as amended, the "Agreement"), for the purchase and sale of the building commonly known by the street address of 60 Commerce Drive, Trumbull, Connecticut (the "Premises"); and

WHEREAS, in connection with the consummation of the transaction contemplated under the Agreement, Assignor and Assignee desire to execute this Assignment.

NOW, THEREFORE, in consideration of good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

1. **Recitals.** The foregoing recitals are hereby incorporated in the body of this Assignment as if fully rewritten and restated herein.

2. **Assignment of Lease.** Assignor hereby sells, transfers and assigns to Assignee all of its right, title and interest in and to the certain lease between Assignor, as Landlord, and Cellco Partnership d/b/a Verizon Wireless, as Tenant, dated October 18, 2013 (collectively, the "Lease"), subject, however, to the terms, covenants and conditions of the Lease and this Assignment. Notwithstanding the foregoing, however, Assignor nevertheless retains, on a nonexclusive basis, the benefit and protection of any indemnity(ies) provided by the tenant under the Lease for the benefit of the landlord.

3. **Assumption of Obligations.** Assignee hereby accepts the assignment of the Lease, the rents due thereunder subject to the terms and conditions hereof, and from and after the date hereof, Assignee hereby assumes and shall be responsible for and shall perform all of those obligations imposed on the lessor or landlord under the Lease, which obligations first arise or accrue on or after the date hereof (the "Closing").

4. **Assignee's Indemnification.** Assignee hereby indemnifies, protects, defends and holds Assignor and Assignor's members and managers and their respective successors, and assigns, harmless from any and all claims, damages, losses, suits, proceedings, costs and expenses, including, without limitation, reasonable attorneys' fees (collectively, "Losses"), both known or unknown, present and future, at law or in equity, arising out of, by virtue of or in any

way related to the breach by Assignee of (or Assignee's failure to timely perform) any or all of the obligations imposed on the lessor or the landlord under the Lease, which obligations accrue from and after the date of the Closing.

5. **Assignor's Indemnification.** Assignor hereby indemnifies, protects, defends and holds Assignee, and Assignee's members and managers, and all of their respective successors and assigns harmless from any and all Losses, both known and unknown, present and future, at law or in equity and arising out of, by virtue of, or related in any way to, the breach by Assignor of (or Assignor's failure to timely perform) any or all of the obligations imposed on the lessor or the landlord under the Lease, which obligations accrue prior to the date of the Closing.

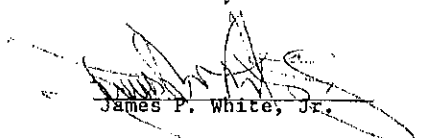
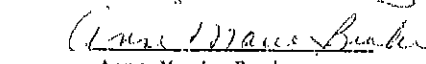
6. **Counterparts.** This Assignment may be executed in one or more identical counterparts, all of which, when taken together shall constitute one and the same instrument.

7. **Governing Law.** This Assignment shall be governed by and construed in accordance with the laws of the State of Connecticut.

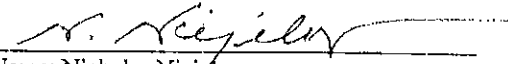
8. **Partial Invalidity.** The provisions hereof shall be deemed independent and severable, and the invalidity or enforceability of any one provision shall not affect the validity or enforceability of any other provision hereof.

IN WITNESS WHEREOF, Assignor and Assignee have executed this Assignment as of the date first above written.

Witnessed by:


James P. White, Jr.

Anne Marie Burke

ASSIGNOR:
PILOT CORPORATION OF AMERICA

By: 
Name: Nicholas Niejelow
Title: Vice President N.B.D.

ASSIGNEE:
CITY PARK COMMERCE DRIVE, LLC a
Connecticut limited liability company

By: CH Commerce Drive Management, LLC a
Connecticut limited liability company, its
Manager

By: _____
Jonathan P. Garrity, President

Lessor Site ID & No.: Trumbull SE 4 CT / 469122
Lessee Site ID & No.: NJJER01153A

CONTRACT # _____

ASSIGNEE:
CH COMMERCE DRIVE ASSOCIATES, LLC
a Connecticut limited liability company

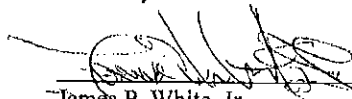
By: CH Commerce Drive Management, LLC a
Connecticut limited liability company, its
Manager

By: _____
Jonathan P. Garrity, President

STATE OF CONNECTICUT)
)
COUNTY OF FAIRFIELD) ss: Bridgeport

On this the 18th day of June, 2014, before me, the undersigned officer, personally appeared Nicholas Niejelow, who acknowledged himself to be the Vice President N.B.D. of **PILOT CORPORATION OF AMERICA** a Delaware corporation authorized to do business in the State of Connecticut and that he as such Vice President N.B.D., being duly authorized so to do, executed the foregoing instrument for the purposes therein contained by signing the name of the corporation by himself as such Vice President N.B.D.

IN WITNESS WHEREOF, I hereunto set my hand.



James P. White, Jr.
Commissioner of the Superior Court

Lessor Site ID & No.: Trumbull SE 4 CT / 469122

Lessee Site ID & No.: NJJER01153A

CONTRACT # _____

way related to the breach by Assignee of (or Assignee's failure to timely perform) any or all of the obligations imposed on the lessor or the landlord under the Lease, which obligations accrue from and after the date of the Closing.

5. **Assignor's Indemnification.** Assignor hereby indemnifies, protects, defends and holds Assignee, and Assignee's members and managers, and all of their respective successors and assigns harmless from any and all Losses, both known and unknown, present and future, at law or in equity and arising out of, by virtue of, or related in any way to, the breach by Assignor of (or Assignor's failure to timely perform) any or all of the obligations imposed on the lessor or the landlord under the Lease, which obligations accrue prior to the date of the Closing.

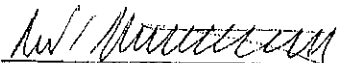
6. **Counterparts.** This Assignment may be executed in one or more identical counterparts, all of which, when taken together shall constitute one and the same instrument.


7. **Governing Law.** This Assignment shall be governed by and construed in accordance with the laws of the State of Connecticut.

8. **Partial Invalidity.** The provisions hereof shall be deemed independent and severable, and the invalidity or enforceability of any one provision shall not affect the validity or enforceability of any other provision hereof.

IN WITNESS WHEREOF, Assignor and Assignee have executed this Assignment as of the date first above written.

Witnessed by:


Michael R. Murray


Nancy A. Laskowski

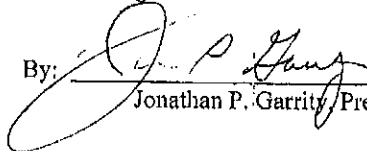
ASSIGNOR:
PILOT CORPORATION OF AMERICA

By: _____

Name: Nicholas Niejelow
Title: Vice President N.B.D.

ASSIGNEE:
CITY PARK COMMERCE DRIVE, LLC a
Connecticut limited liability company

By: CH Commerce Drive Management, LLC a
Connecticut limited liability company, its
Manager

By: 
Jonathan P. Garrity, President

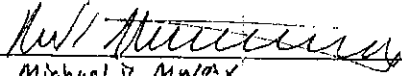
Lessor Site ID & No.: Trumbull SE 4 CT / 469122
Lessee Site ID & No.: NJJER01153A

CONTRACT # _____

STATE OF CONNECTICUT)
)
COUNTY OF FAIRFIELD) ss:

On this the 18th day of June, 2014, before me, the undersigned officer, personally appeared Jonathan P. Garrity, who acknowledged himself to be the President of CH Commerce Drive Management, LLC a Connecticut limited liability company, Manager of CH Commerce Drive Associates, LLC, a Connecticut limited liability company and that he as such President, being duly authorized so to do, executed the foregoing instrument for the purposes therein contained by signing the name of CH Commerce Drive Management, LLC in its capacity as Manager of CH Commerce Drive Associates, LLC, by himself as such President.

IN WITNESS WHEREOF, I hereunto set my hand.



Michael P. Mulvey
Commissioner of the Superior Court
Notary Public
My commission expires:

Lessor Site ID & No.: Trumbull SE 4 CT / 469122

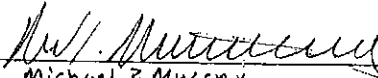
Lessee Site ID & No.: NJER01153A

CONTRACT # _____

STATE OF CONNECTICUT)
)
COUNTY OF FAIRFIELD) ss:

On this the 18th day of June, 2014, before me, the undersigned officer, personally appeared Jonathan P. Garrity, who acknowledged himself to be the President of CH Commerce Drive Management, LLC a Connecticut limited liability company, Manager of City Park Commerce Drive, LLC a Connecticut limited liability company and that he as such President, being duly authorized so to do, executed the foregoing instrument for the purposes therein contained by signing the name of CH Commerce Drive Management, LLC in its capacity as Manager of City Park Commerce Drive, LLC, by himself as such President.

IN WITNESS WHEREOF, I hereunto set my hand.



Michael P. Murray

Commissioner of the Superior Court
Notary Public
My commission expires:


Seal

Grantees' Mailing Address:
C/O Cambridge Hanover, Inc.
65 Locust Avenue, Suite 200
New Canaan, CT 06840

ACTIVE/74791.8/JPW/4663775v1

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HSG 

After recording please return to:
Blue Sky Towers II, LLC
86 West Street
Chagrin Falls, Ohio 44022

COMMUNICATIONS FACILITY EASEMENT AGREEMENT
AND ASSIGNMENT OF TOWER-RELATED LICENSE
(CT-5046 Trumbull II)

THIS COMMUNICATIONS FACILITY EASEMENT AGREEMENT AND ASSIGNMENT OF TOWER-RELATED LICENSE (this "Agreement") is made as of December 19, 2018 (the "Effective Date") by and between **CH COMMERCE DRIVE ASSOCIATES, LLC** and **CITY PARK COMMERCE DRIVE, LLC** (together, "Grantor"), having an address at 65 Locust Avenue, Suite 200, New Canaan, CT 06840, and **BLUE SKY TOWERS II, LLC**, a Delaware limited liability company, as grantee ("Grantee"), having an address at 352 Park Street, Suite 106, North Reading, MA 01864 Attention: Jim Rech.

A. Grantor is the owner of certain real property located at 60 Commerce Drive in the Town of Trumbull, County of Fairfield, State of Connecticut as more particularly described on Exhibit A attached hereto and incorporated herein by reference ("Grantor's Property"), a portion of which (the "Easement Premises") is used by a tenant pursuant to the occupancy agreement identified on Exhibit B attached hereto and incorporated herein by reference (the "Existing Tower-Related License" and together with the additional occupancy agreements entered into by Grantee in the future pursuant to this Agreement [the "Additional Tower-Related Licenses"], the "Tower-Related Licenses") for the placement of the Communications Equipment (defined below) of such tenant (the "Existing Tenant Equipment").

B. Pursuant to a Purchase and Sale Agreement dated October 15, 2018, between Grantor, as seller, and Grantee, as buyer (the "Purchase Agreement"), Grantor has agreed to sell to Grantee, among other things, (i) the exclusive right to all space in, on, over, under and around Grantor's Property necessary for the maintenance of the Existing Tenant Equipment on the Easement Premises and the placement and maintenance from time to time of additional Communications Equipment in, on or around the Easement Premises and (ii) all assets, rights and improvements owned by Grantor relating to placement of the Existing Tenant Equipment on the Easement Premises, including the existing Tower-Related License, antenna support structures, equipment structures or closets, utility lines and connections.

C. In order to effectuate the transfer of the rights described in Recital A, Grantor has agreed, (i) to grant to Grantee an exclusive easement in, on, over, under and around the Easement Premises and a

non-exclusive easement in, on, over, under and around such portions of Grantor's Property necessary to support Existing Tenant Equipment and future Communications Equipment installed within the Easement Premises and (ii) to grant to Grantee any non-exclusive easements needed to provide for access and utilities to the Communications Equipment installed within the Easement Premises.

NOW, THEREFORE, on the terms and subject to the conditions set forth in this Easement, the Easement Payment described in Section 5 and other good and valuable consideration, the parties agree as follows:

1. Grant of Easement. Upon the terms and conditions set forth herein, Grantor hereby grants, bargains and conveys to Grantee an exclusive easement in, to, under, over and around (i) the Easement Premises (including, without limitation, all airspace above and around the ground space upon which is located the Existing Tenant Equipment and all ground space appurtenances) upon which is currently located the Existing Tenant Equipment, as such space may be further described in the Existing Tower-Related License and as described on Exhibit C attached hereto and incorporated herein by reference, and a non-exclusive easement in, to, under, over and around those portions of Grantor's Property necessary for the construction, installation, maintenance, repair, replacement, improvement, operation and removal of the Existing Tenant Equipment so long as Grantee's use of Grantor's Property does not materially interfere with Grantor's normal use of Grantor's Property.

2. Access and Utility Easements.

2.1 Access Easements. Grantor hereby grants, bargains and conveys to Grantee, its tenants and licensees, and their successors and assigns, irrevocable, non-exclusive and unconditional easements, which Grantor shall maintain in a manner to allow twenty-four (24) hours a day for ingress and egress (vehicular and pedestrian) at all times, from a publicly dedicated roadway to the Easement Premises over, upon, across and through Grantor's Property, and adjoining lands and rights-of-way owned by Grantor as may be required by Grantee and its tenants and licensees for the purpose of construction, installation, maintenance, repair, replacement, improvement, operation and removal of the Communications Equipment within the Easement Premises including any antenna support structures, conduits, risers, and other necessary appurtenances and for telephone lines and power lines used in connection with the Communications Equipment, including the access easement more particularly described on Exhibit D attached hereto and incorporated herein by reference (the "Access Easements"). Grantee will notify Grantor in advance of its need to install, maintain or repair its cables, wires, related fixtures and Communications Equipment within the Easement Premises located in the Easement Premises; EXCEPT HOWEVER, in the case of an emergency whereupon notification shall follow.

2.2 Utility Easements. Grantor hereby grants, bargains and conveys to Grantee, its tenants and licensees, and their successors and assigns, or to such utility company which Grantee shall designate, and Grantee, its tenants and licensees or such utility company is hereby given and granted irrevocable, non-exclusive and unconditional easements twenty-four (24) hours a day for providing utilities to the Easement Premises, including the utility easement more particularly described on Exhibit E attached hereto and incorporated herein by reference (hereinafter, the "Utility Easement"). The Utility Easement shall be for the installation, maintenance and operation (whether by Grantee or by Grantee's designated utility company) of necessary utilities from the point of connection with the utility company's distribution

network to Grantee's or its tenants' or licensees' Communications Equipment located on the Easement Premises. The Utility Easement shall be sufficient for providing the applicable utility services to the Easement Premises. It is understood that Grantee and the utility company providing utility services shall have access to all areas of the Easement Premises, Grantor's Property and rights-of-way owned by Grantor as necessary for the installation, maintenance and/or repair of such utility services provided that such access does not materially interfere with Grantor's normal use of Grantor's Property or rights of way owned by Grantor. Grantee will notify Grantor in advance of its need to install, maintain or repair its cables, wires, related fixtures and Communications Equipment located in the Easement Premises; EXCEPT HOWEVER, in the case of an emergency whereupon notification shall follow.

2.3 Utility Lines. Grantee and its tenants and licensees may have electrical current meters installed on the Easement Premises. Grantee shall have the right to run the utility lines directly or in such a manner as may be reasonably necessary from the utility source to the Communications Equipment including the right to install cables and wires in and Grantor's Property and the Easement Premises; provided, however, Grantor shall have the right to approve the location and manner of installation of such cables and wires but such approval shall not be unreasonably withheld or delayed. The cost of such meter and the installation, maintenance and repairs thereof shall be paid by Grantee or its tenants and licensees. Grantee and any utility company providing services to Grantee shall have access to all portions of the Easement Premises, Grantor's Property or other adjacent or adjoining land of Grantor as is reasonably necessary for the installation, maintenance and/or repair of such utility services provided that such access does not materially interfere with Grantor's normal use of Grantor's Property or such adjoining or adjacent land. Grantee will notify Grantor in advance of its need to install, maintain or repair its cables, wires, related fixtures and Communications Equipment located in the Easement Premises; EXCEPT HOWEVER, in the case of an emergency whereupon notification shall follow.

3. Tower-Related Licenses.

3.1 Assignment of Existing Tower-Related License. Grantor hereby transfers and assigns to Grantee as of the Effective Date all of its right, title and interest in, to and under the Existing Tower-Related License identified on Exhibit B and any amendments thereto, including without limitation, all rents, and other monies due to Grantor. Grantor and Grantee intend that this Easement serve as an absolute assignment and transfer to Grantee of the Existing Tower-Related License and all rents and other monies due Grantor pursuant to the Existing Tower-Related License. Grantor designates Grantee as the lessor under the Existing Tower-Related License and Grantee assumes the obligations and liabilities of Grantor under the Existing Tower-Related Licenses only to the extent that such obligations and liabilities (i) are not the responsibility of the Grantor pursuant to the terms of this Easement and (ii) accrue on or after the Effective Date. It is specifically agreed that Grantor will retain and continue to be responsible for the provisions of the Existing Tower-Related Licenses that can only be satisfied by Grantor as owner of Grantor's Property including without limitation (a) obligations relating to the ownership and use of Grantor's Property, (b) all maintenance and repair obligations relating to Grantor's Property, (c) the payment of real property taxes and (d) any covenant or obligation of Grantor relating to the environmental condition of Grantor's Property.

3.2 Additional Tower-Related Licenses. To facilitate Grantee's right to place and maintain from time to time additional Communications Equipment on the Easement Premises, Grantor hereby grants to

Lessor Site ID & No.: Trumbull SE 4 CT / 469122

Lessee Site ID & No.: NJJER01153A

CONTRACT # _____

Grantee the authority to negotiate and consummate Additional Tower-Related License for the Easement Premises (which Additional Tower-Related Licenses shall be in form consistent with industry standards for placement of Communications Equipment in, on or around property similar to Grantor's Property). Grantor ratifies and acknowledges the right of Grantee to enter into such agreements, and Grantor shall be bound by such agreements throughout the term of this Agreement.

4. Term. Commencing upon the Effective Date, the Term of this Easement shall be for the period of thirty-five (35) years ending on the day prior to the thirty-fifth (35th) anniversary of the Effective Date. Notwithstanding the foregoing, in the event Grantee and its tenants and licensees voluntarily cease to use the Easement Premises for a period of more than five (5) year (for reasons other than casualty, condemnation or Act of God), the Easements granted hereunder shall be deemed surrendered. Grantee may surrender the Easements for any reason or at any time by giving thirty (30) days' notice to Grantor. Upon surrender, this Easement, shall be terminated, and Grantor and Grantee shall execute and record such documents reasonably required to terminate this Easement. This Easement may not be terminated by Grantor.

5.

(a) Easement Payment. On or about the Effective Date, Grantee shall pay to Grantor one, and only one, lump-sum payment in an amount equal to the purchase price set forth in the Purchase Agreement (the "Purchase Price") as payment in full for the Term. Grantor hereby acknowledges and agrees that the Purchase Price constitutes all payments and other amounts due and payable by Grantee for the Term and that Grantor shall not be entitled to any other compensation, fees, commissions, reimbursements, contributions, purchase monies or other payments under this Easement or otherwise in connection with the Purchase Agreement, this Agreement, the non-exclusive easements granted hereunder, the assignment of the Existing Tenant-Related License or the performance of Grantor's other obligations under this Agreement.

Intentionally omitted for recording purposes

6. Use. Grantee shall use the Easement Premises only for the purpose of constructing, installing, maintaining, repairing, replacing, improving, operating and removing such Communications Equipment reasonably required by Grantee and its tenants and licensees for use as a telecommunications facility and any other incidental activities or activities relating thereto as may be required or permitted by applicable laws, rules, regulations or guidelines. As used in this Easement, "Communications Equipment" shall include but is not limited to the following equipment, whether owned by Grantee or any of its tenants or licensees: (a) antenna support structures (including towers) and building(s) and cabinets to house equipment, including generators, necessary to operate the equipment; (b) flexible coaxial transmission

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CT-5046 Trumbull II

lines between antennae and telecommunications equipment; (c) radio communication antennas and equipment consisting of transmitters, receivers, microwave dishes and accessories; (d) a fence to enclose all improvements, including the antenna support structures (including towers), buildings, cabinets and all equipment; and (e) any and all equipment, supplies or materials related to the foregoing. All improvements constructed or installed by Grantee upon the Easement Premises shall be at Grantee's expense. Grantee, or any assignee or tenant of Grantee, may construct or erect such additional storage structures or otherwise add or modify its Communications Equipment or telecommunications equipment, as the case may be, on the Easement Premises as reasonably required for the maintenance or operation of the Communications Equipment, or any telecommunications equipment of an assignee or tenant or licensee. Grantee will not use the Easement Premises, the Access Easement or the Utility Easement in a manner that interferes with Grantor's use of Grantor's Property.

7. Insurance. Grantee shall, at its expense, maintain during the Term, comprehensive general liability and property liability insurance with liability limits of not less than Two Million Dollars (\$2,000,000.00) for injury to or death of one or more persons or damage to or destruction of property in any one occurrence. Grantor shall be named as an additional insured, as its interest may appear, and the policies shall contain cross liability endorsements. Grantee may carry said insurance under a blanket policy. Grantee shall deliver to Grantor, upon request, certificates evidencing the existence and amounts of such insurance. No policy shall be cancelable or subject to reduction of coverage except after ten (10) days prior written notice to Grantor.

8. Defaults and Remedies:

(a) Notwithstanding anything in this Easement to the contrary, neither Grantor or Grantee shall be in default under this Easement for failure to perform any obligation under this Easement until thirty (30) days after receipt of written notice of the act or omission constituting the default; provided, however, if any such default cannot reasonably be cured within thirty (30) days, neither party shall be deemed to be in default under this Easement if such defaulting party commences to cure such default within said thirty (30) day period and thereafter diligently pursues such cure to completion.

(b) Should Grantee fail to perform any obligations under this Easement and such breach shall continue uncured thirty (30) days following the receipt of written notice, as provided in paragraph 8(a) above, Grantor may seek specific performance or actual damages or invoke any other remedies available in law or in equity except for termination of this Easement.

(c) Should Grantor breach any material term or covenant in this Easement or fail to perform any obligation under this Easement, and such breach shall continue uncured thirty (30) days following the receipt of written notice, as provided in paragraph 8(a) above, Grantor may seek specific performance or actual damages or invoke any other remedies available in law or in equity or, at its option, cure such default including but not limited to payment of mortgage, tax obligations or other encumbrances. All costs and expenses of any such Grantee performance shall be reimbursed upon invoice therefore and, or abated from any Rent due to Grantor until Grantee is reimbursed in full.

9. Taxes. Grantor acknowledges that a portion of the Purchase Price delivered by Grantee to Grantor pursuant to the Purchase Agreement is for and in consideration of the continuing obligation of

Lessor Site ID & No.: Trumbull SE 4 CT / 469122

Lessee Site ID & No.: NJJER01153A

CONTRACT # _____

Grantor to pay, on or before the due date, all present and future real property taxes, transfer taxes, penalties, interest, roll-back or additional taxes, sales and use taxes and all other fees and assessments regardless of the taxing method (the "Taxes") attributable to Grantor's Property and this Agreement. Without limiting the foregoing, except to the extent Taxes are the obligation of tenants under the Tower-Related Licenses, Grantor shall be solely responsible for the payment of such Taxes. Within ten (10) days of receiving a request from Grantee, Grantor shall furnish to Grantee a copy of each bill for any such Taxes and evidence of Grantor's payment of such bill. In the event that Grantor fails to pay any Taxes when due, Grantee shall have the right, but not the obligation, to pay such Taxes on behalf of Grantor after Grantee gives Grantor thirty (30) day notice. Grantor shall reimburse Grantee for the full amount of such Taxes paid by Grantee on Grantor's behalf within ten (10) business days of Grantor's receipt of an invoice from Grantee.

10. Tests. Throughout the Term, Grantee and its tenants and licensees shall have the right to conduct survey, soil, radio coverage, and environmental tests and conduct any other investigations needed to determine if the Easement Premises, Access Easements and Utility Easement is suitable for the construction, installation, maintenance, repair, replacement, improvement, operation and removal of the Communications Equipment.

11. Exclusive Rights; Non-Interference.

11.1 Exclusivity. During the Term, Grantor will not grant a lease, license, or easement or transfer or convey any other interest in Grantor's Property or any other property owned by Grantor contiguous to the property upon which the Easement Premises is located to any party for the purposes of operating Communications Equipment or to any party if such lease, transfer or conveyance would in any way adversely affect or interfere, in Grantee's reasonable judgment, with any Communications Equipment or the operation of the Easement Premises.

11.2 Grantor Interference. Grantor shall not, nor shall Grantor permit its lessees, licensees, employees, invitees or agents to, use any portion of Grantor's Property in a way which interferes with the operations of the tenants under the Tower-Related Licenses or which interferes with the Access Easements or Utility Easement. Such interference shall be deemed a material breach by Grantor. Upon written notice from Grantee or a tenant under a Tower-Related License, Grantor shall be responsible for terminating any such interference. Should Grantor fail to cease promptly any such interference, Grantee and any tenant under a Tower-Related License shall have the right to bring a court action to enjoin such interference, and Grantee shall have the right, in its sole discretion, to terminate this Agreement. It is agreed and understood by the parties that a continuing interference may cause irreparable injury to Grantee and tenant under the Tower-Related Licenses.

11.3 Grantor Interference with Construction. Provided that construction is proceeding pursuant to a building permit or other required municipal or governmental approvals, and according to drawings or exhibits as provided to Grantor, Grantor shall not interfere with any aspects of construction. Such interference may include, without limitation, attempting to direct construction personnel as to the location of or method of installation of the Communications Equipment. Grantor further acknowledges that it will be responsible for any costs and damages (including, fines and penalties) that are directly attributable to Grantor's interference with construction. Grantee shall not commence construction of any kind on

Grantor's Property, including the Easement Premises, until the plans therefore have been approved by Grantor, which approval shall not be unreasonably withheld, delayed or conditioned but Grantor's consent shall not be required for any construction which the Tenant under the Tower Related License has the right to perform without Grantor's consent.

12. Nature of Grantee's Property.

12.1 Fixtures. Grantor covenants and agrees that notwithstanding any contrary provision of statutory or common law, no part of the improvements, including without limitation, the Communications Equipment, constructed, erected or placed by Grantee or Grantee's tenants or licensees on the Easement Premises shall be deemed by Grantor to be or become affixed to or a part of the Easement Premises, it being the specific agreement of Grantor and Grantee that all improvements of every kind and nature constructed, erected or placed by Grantee or any tenants or licensees on the Easement Premises shall be and remain the personal property of Grantee or Grantee's tenants or licensees and may be removed by Grantee as provided in this Easement. Grantee agrees to save Grantor harmless on account of claims of mechanic's, materialman or other liens imposed upon the Easement Premises or Grantor's Property in connection with any alterations, addition, or improvements to the Easement Premises made by Grantee, Grantee's agents, employees, contractors, tenants or licensees.

12.2 Waiver of Grantor Liens. Grantor acknowledges that the Communications Equipment and any related items brought to the Easement Premises by Grantee, Grantee's tenants and licensees or their designees, are and shall remain Grantee's, Grantee's tenants' and licensees' or such designees' personal property, as applicable. Grantor waives any rights it may have to assert any liens, encumbrances or adverse claims, statutory or otherwise, against the Communications Equipment, including any rights it may have in its capacity as Grantor under this Easement. Grantee, Grantee's tenants, licensees or such designee in its sole discretion, may remove its Communications Equipment or any portion of it at any time during the Term of the Easement, without notice to Grantor and without Grantor's consent.

13. Assignment. Grantor may assign this Agreement, without the prior consent of Grantee, only to a successor fee owner of Grantor's Property or as collateral for any loan that is secured by a mortgage on Grantor's fee simple interest in Grantor's Property. Grantee may assign, transfer or otherwise encumber all or any part of its rights under this Agreement without the prior consent of Grantor provided that such assignee assumes in full all of Grantee's obligations under this Easement. No such assignment shall relieve Grantor of any of its liabilities or obligations hereunder.

14. Governmental Condemnation or Taking. In the event that any governmental, quasi-governmental agency or other public body exercises its power of eminent domain and thereby takes all or part of the Easement Premises or adjoining or adjacent property subject to an easement hereunder, apportionment thereby making it physically or financially unfeasible, the Easement Premises to be used in the manner it was intended to be used by Grantee under this Easement, Grantee shall have the right to assert a claim against the condemning agency for the portion attributable to Grantee's interest in the Easement Premises and to terminate this Easement effective as of the date the condemning agency takes possession. If only a portion of the Easement Premises is taken by eminent domain, and Grantee does not elect to terminate this Easement under this provision, then this Easement shall continue. Grantee reserves its right under paragraph 15.

15. Damage or Destruction.

(a) Grantor acknowledges and agrees that it is extremely important that Grantee and its tenants and licensees maintain continuous operation of the Communications Equipment on the Easement Premises. Therefore, in the event of any damage to or destruction of the Easement Premises, the Access Easements or the Utility Easement or any condemnation thereof, which renders the Communications Equipment inoperable or unusable, Grantee and its tenants and licensees shall have the right, at Grantee's option, to construct or install temporary facilities, including temporary or replacement antennae, if necessary, elsewhere on the Easement Premises and to establish alternative easements for access and utilities, in such locations as may be reasonably acceptable to Grantor and in a manner which will not interfere with any repair or reconstruction efforts, in order to continue operation of the Communications Equipment. Grantor shall allow Grantee and its tenants and licensees to install such additional equipment and fixtures, including but not limited to, antennae, cables, wires, and shall permit Grantee and its tenants and licensees access, repair and maintenance rights as may be necessary to allow Grantee and its tenants and licensees to operate and maintain such temporary facilities until the Easement Premises, Access Easements and/or Utility Easement have been sufficiently repaired to permit use of the Communications Equipment on its prior location on the Easement Premises, or until a substitute permanent location on the Easement Premises (with substitute access and utility easements, if necessary) that does not materially interfere with Grantor's normal use of Grantor's Property has been chosen by Grantee and a substitute permanent facility has been completed.

(b) If the Easement Premises is repaired, Grantee and its tenants and licensees shall have the right to construct and install replacement Communications Equipment, including, but not limited to, the antenna support structures, antennae, cables, conduits, poles, wires and electronic or other equipment, in and on the repaired Easement Premises together with replacement access and utility easements if necessary, in substantially the same location and manner as prior to the occurrence of the damage or at another location on the Easement Premises provided that such relocation does not materially interfere with Grantor's normal use of Grantor's Property. It is the intention of the parties that Grantee and its tenants and licensees shall be able to maintain continuous operation and use of the Existing Tenant Equipment and any future Communications Equipment throughout the Term.

(c) If Grantee elects to continue operation of the Communications Equipment pursuant to this paragraph, this Easement shall not terminate on account of such damage, destruction or condemnation, but shall continue in effect. Grantee's obligations under this Easement shall be equitably abated or adjusted to account for any damage, destruction or reduction of the Easement Premises or the conditions under which Grantee's temporary or replacement facilities are being used and operated, commencing from the date of damage, destruction or condemnation and continuing during the period of such repair or restoration.

16. Consents and Approvals. Grantee and/or its tenants and licensees shall maintain the permits necessary for the Communications Equipment. Upon execution of this Easement, Grantor agrees to cooperate with Grantee in all respects in connection with any application made by Grantee, in the name of Grantor, to any governmental authority for any license, permit or approval or renewal thereof. Procurement of licenses, permits and/or approvals necessary for the construction, maintenance and

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operation of Grantee's or its tenants' or licensees' Communications Equipment shall be made at Grantee's expense, and Grantor shall have no obligations with respect thereto. Whenever the consent or approval of either party is required or a determination must be made by either party under this Easement, no such consent or approval shall be unreasonably withheld, denied or delayed, and all such determinations shall be made on a reasonable basis and in a reasonable manner.

17. Quiet Possession; Maintenance of Grantor's Property. Grantor hereby covenants that Grantee is seized and possessed of a valid easement estate in and to the Easement Premises, that Grantee shall have quiet and peaceable possession of the Easement Premises, that Grantor shall defend title to the Easement Premises for and on behalf of Grantee, and that Grantor shall provide such further assurances of title as may be necessary or appropriate. Grantor further agrees to maintain Grantor's Property in a commercially reasonable condition and repair during the Term of this Easement, normal wear and tear and casualty excepted. Without limiting the foregoing, except to the extent maintenance is the obligation of tenants under the Tower-Related Licenses, Grantor shall be solely responsible for the maintenance of Grantor's Property.

18. Debt Security. Grantor covenants and agrees that, without the prior consent of Grantor, at all times during the Term, Grantee shall have the right to mortgage or convey by deed of trust, deed to secure debt or other instrument adequate for the purpose of securing any bona fide indebtedness or evidence thereof, this Agreement or the easement holder's interest of Grantee created hereby, together with all of Grantee's right, title, and interest in and to the improvements hereinafter constructed, erected, or placed on the Easement Premises by Grantee, provided that no such mortgage, conveyance or encumbrance, nor any foreclosure thereof, nor any purchase thereunder, shall impair or abridge the rights of Grantor, as provided herein.

19. Estoppel Certificates, Grantor's Acknowledgment of Rights, and other Similar Documents. Grantor agrees that it will from time to time, within ten (10) business days after request by Grantee, execute and deliver an estoppel certificate, Grantor's acknowledgement of rights or other similar statement, in a form that is reasonably acceptable to both Grantor and Grantee certifying that (i) this Easement is unmodified and in full force and effect (or if there have been modifications, that the same is in full force and effect as so modified); (ii) confirming that the Easement Payment has been prepaid for the entire Term; (iii) stating that Grantee is not in default hereunder (or if Grantor alleges a default stating the nature of such alleged default); and (iv) acknowledging the rights of Grantee, Grantee's mortgagee or assignee, if any, and further stating such other matters as Grantee, Grantee's mortgagee or assignee shall reasonably require. Grantee agrees that it will from time to time, within ten (10) business days after request by Grantor, execute and deliver an estoppel certificate stating whether or not Grantor is default in the performance of any of its obligations hereunder and, if so, specifying the nature of the default.

20. Subordination. If the Easement Premises are subject and subordinate to a mortgage, deed of trust or deed to secure debt in favor of Grantor's lender, Grantor shall provide to Grantee a non-disturbance and attornment agreement substantially in the form attached as Exhibit 7.4(b) to the Purchase Agreement.

21. Environmental Matters.

21.1 Grantor's Representations. The operation of Grantor's Property has met, in all material respects, the applicable laws and regulations of all federal, state, and local government authorities having jurisdiction, including, without limitation, all requirements pursuant to environmental protection, health, or safety laws and regulations (including the disposal of hazardous substances and solid wastes) and Grantor will continue to operate Grantor's Property so that it continues to comply such health, or safety laws and regulations. Neither Grantor nor any of its agents or affiliates have, in connection with the operation of Grantor's Property, ever generated, stored, treated, transported, handled, disposed of, or released any hazardous substance or solid, liquid, or gaseous waste ("Hazardous Substances") in a manner that would give rise to any material liability under any statute or governmental regulation. Grantor is not a "potentially responsible party," as defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980 or under any comparable state or local statute, in connection with any past or present waste disposal practices undertaken by it or on its behalf during its ownership or occupancy of Grantor's Property.

21.2 Grantee's Representations and Limitation. Grantee shall not introduce or use any Hazardous Substance on the Easement Premises or Grantor's Property violation of any applicable federal, state or local environmental laws. Grantee shall not be responsible for any Hazardous Substances arising or present on or before the Effective Date. Liability of Grantee for any claims with respect to any Hazardous Substances at Grantor's Property or the Easement Premises shall be limited to contamination that is shown by clear evidence to have been caused by a release of a Hazardous Substance by Grantee after the Effective Date, and in violation of any applicable federal, state or local environmental laws.

22. Notices. Notices will be effective if and when sent by registered or certified U.S. mail or reputable same-day or overnight courier, postage prepaid or otherwise accounted for by sender, and sent to the addresses set forth in the Preamble above. Any party may change the address to which notices are to be addressed by giving the other party notice in the manner set forth in this Section 23.

23. Entire Agreement and Binding Effect. The Purchase Agreement, this Agreement and any attached Exhibits constitute the entire agreement between Grantor and Grantee. No prior written or prior, contemporaneous or subsequent oral promises or representations shall be binding. This Agreement shall not be amended or changed except by written instrument signed by authorized representatives of the parties hereto. The provisions of this Agreement shall be binding upon and inure to the benefit of the heirs, executors, administrators, successors and assigns of the parties.

24. Counterparts. This Agreement may be executed in any number of counterparts, each of which shall be an original, but all of which together shall constitute but one instrument.

25. Recording of Easement. Grantor and Grantee hereby agree, following the execution of this Agreement, that Grantee, at its sole expense, shall have the file this Agreement of record in the county and state where the Easement Premises is located.

26. Further Assurances. Grantor will, from time to time after the date of this Agreement, upon the reasonable request of Grantee, execute and deliver all such further documents and assurances as may be reasonably required to transfer to and to vest in Grantee all interest of Grantor in and to the Easement Premises, the Access and Utility Easements and Tower-Related Licenses and to protect the right, title, and

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interest of Grantee in and to such interests. Grantor further agrees to sign such reasonable documents to evidence its agreement to be responsible under Additional Tower-Related Licenses for certain obligations that can only be satisfied by Grantor as owner of Grantor's Property including without limitation (a) obligations relating to the ownership and use of Grantor's Property, (b) all maintenance and repair obligations relating to Grantor's Property, (c) the payment of real property taxes and (d) any covenant or obligation of Grantor relating to the environmental condition of Grantor's Property.

27. Time is of the Essence. Time is of the essence of this Agreement and each and all of its provisions.
28. Governing Law. This Agreement shall be construed and governed in accordance with the laws of the state in which the Easement Premises is located.
29. Severability. If any term, covenant, condition or provision of this Agreement or application thereof shall, to any extent, be invalid or unenforceable, the remainder of this Easement shall not be affected thereby, and shall be valid and enforceable to the fullest extent permitted by law.
30. Waiver. No failure or delay of the parties hereto to exercise their rights hereunder or to insist upon the strict compliance with any obligation imposed hereunder, and no course of dealing or custom or practice of either party hereto at variance with any term hereof, shall constitute a waiver or a modification of the terms hereof or the right to demand strict compliance with the terms hereof.
31. Covenant Running with the Land. The provisions of and covenants contained in this Agreement shall run with the land and shall bind and inure to the benefit of Grantor, Grantee and their respective successors, heirs and assigns.
32. Indemnification By Grantor. After the Effective Date, Grantor agrees to indemnify Grantee against any loss, cost, liability, or expense (including, without limitation, costs and expenses of litigation and, to the extent not prohibited by law, reasonable attorney's fees) (all of which are referred to as "Losses") incurred by Grantee by reason of, resulting from, or arising out of (a) the incorrectness of any of the representations or warranties, or the breach of any of the covenants or agreements of Grantor contained in this Agreement or in any other instrument executed or delivered by Grantor in connection with this Agreement or given on or before the Effective Date; (b) Grantor's breach, on or before the Effective Date, of any agreements with third parties; (c) Grantor's operation of the Property on or before the Effective Date; or (d) the assertion against Grantee of any liability of Grantor.
33. Indemnification By Grantee. After the Effective Date, Grantee agrees to indemnify Grantor against any Losses incurred by Grantor by reason of, resulting from, or arising out of (a) the incorrectness of any of the representations or warranties, or the breach of any of the covenants of Grantee contained in this Agreement or given on the Effective Date; (b) Grantee's breach, after the Effective Date (c) the assertion against Grantor of any liability of Grantee; or (d) arising out of the construction, operation or removal of the Communications Equipment on or after the date hereof.

[Signatures are on the following page]

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Executed by the parties' duly authorized representatives as of the Effective Date.

Signed, Sealed and Delivered
In The Presence Of:

GRANTOR:

CH COMMERCE DRIVE ASSOCIATES, LLC, a
Connecticut limited liability company

By: CH Commerce Drive Management, LLC,
Manager

By: [Signature]
Jonathan Garrity, President

Witnesses: [Signature]

Print Name: Edward N. Epstein

[Signature]

Print Name: Tyler Gilson

State of: CONNECTICUT)

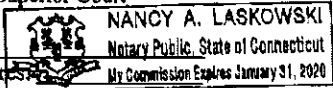
County of FAIRFIELD)

ss. NEW CANAAN [City/Town]; December 17, 2018

On this 17th day of December, 2018, before me, personally appeared Jonathan Garrity, the President of CH Commerce Drive Management, LLC, the Manager of CH COMMERCE DRIVE ASSOCIATES, LLC, a Connecticut limited liability company, signer and sealer of the foregoing instrument, and acknowledged the same to be his free act and deed, and the free act and deed of said CH COMMERCE DRIVE ASSOCIATES, LLC, a Connecticut limited liability company, before me, a Notary Public in and for said County and State.

[Signature]
Commissioner of the Superior Court
Notary Public

Print Name: NANCY A. LASKOWSKI
My Commission Expires January 31, 2020



(Seal)

[Signatures continued on the following page]

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Signature Page - Telecommunications Facility Easement Agreement

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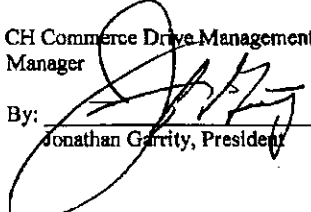
CONTRACT # _____

[Signatures continued from the previous page]

GRANTOR:

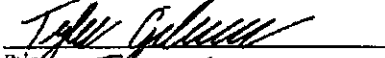
CITY PARK COMMERCE DRIVE, LLC, a
Connecticut limited liability company

By: CH Commerce Drive Management, LLC,
Manager

By: 
Jonathan Garrity, President

Witnesses: 

Print Name: Edward N. Epstein



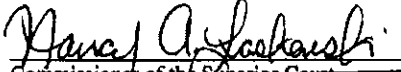
Print Name: Tyler Gilseman

State of: CONNECTICUT)

County of FAIRFIELD)

ss. NEW CANAAN [City /Town]; December 17, 2018

On this 17th day of December, 2018, before me, personally appeared Jonathan Garrity, the President of CH Commerce Drive Management, LLC, the Manager of CITY PARK COMMERCE DRIVE, LLC, a Connecticut limited liability company, signer and sealer of the foregoing instrument, and acknowledged the same to be his free act and deed, and the free act and deed of said CITY PARK COMMERCE DRIVE, LLC, a Connecticut limited liability company, before me, a Notary Public in and for said County and State.



Commissioner of the Superior Court
Notary Public
Print Name: NANCY A. LASKOWSKI
My Commission Expires January 31, 2020

(Seal)

[Signatures continued on the following page]

[Signatures continued from the previous page]

Witnesses:

Print Name: Donald J. Madden

Print Name: Alex Kreynier

GRANTEE:

Blue Sky Towers II, LLC

By: James Rech, Chief Executive Officer

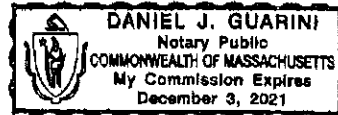
Commonwealth of Massachusetts)
County of Middlesex) ss. D. Reading [City or Town]; December 17, 2018

On this 17 day of December, 2018, before me, personally appeared James Rech, Chief Executive Officer of BLUE SKY TOWERS II, LLC, a Delaware limited liability company, signer and sealer of the foregoing instrument, and acknowledged the same to be his free act and deed, and the free act and deed of said BLUE SKY TOWERS II, LLC, a Delaware limited liability company, before me, a Notary Public in and for said County and State.



Daniel J. Guarini
Notary Public
Print Name: Daniel J. Guarini
My Commission Expires: 12/3/2021

(Seal)



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EXHIBITS AND SCHEDULES

EXHIBITS

Legal Description of Grantor's Property	A
Existing Tower-Related License	B
Legal Description of Easement Premises	C
Legal Description of Access Easement	D
Legal Description of Utility Easement	E

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EXHIBIT A**LEGAL DESCRIPTION OF GRANTOR'S PROPERTY**

Situating in the County of Fairfield, State of Connecticut:

Parent Parcel:

All that certain piece or parcel of land with all of the improvements thereon situated in the Town of Trumbull, County of Fairfield and State of Connecticut, containing 14.02 acres and shown on a certain map entitled "Resubdivision Plan, Lot No. 4, Commerce Drive & Huntington Road, Trumbull, Connecticut, prepared for David Mack" Prepared by J. & D. Kasper & Associates, Engineers, Surveyors, Planners, Bridgeport, Connecticut, Scale 1" = 50' dated Feb. 20, 1979, Sheet 2 of 3, on file in the Trumbull Town Clerk's Office and further shown on a revision of said map dated Dec. 4, 1981 and bounded and described as follows:

- WESTERLY: In part, by land now or formerly of Dow Corning Corp., in part, by the terminus of Commerce Drive, as shown on said map, and in part, by land now or formerly of Optique Dumonde, Ltd., in all, 793.21 feet, said boundary having a bearing of N 19°37'25"W, the termini of said boundary being marked by iron pipes;
- NORTHWESTERLY: By land now or formerly of Optique Dumonde, Ltd., 264.90 feet, said boundary having a bearing of N 25°32'15"E, the termini of said boundary being marked by iron pipes;
- NORTHERLY: By land now or formerly of Christine Lundgren, 47.14 feet, said boundary having a bearing of S 79°31'53"E;
- NORTHERLY: AGAIN, by land now or formerly of Christine Lundgren, 60.33 feet, said boundary having a bearing of N 83°40'15"E;
- NORTHERLY: AGAIN, by land now or formerly of Christine Lundgren, 26.91 feet, said boundary having a bearing of N 77°19'39"E;
- NORTHERLY: AGAIN, by land now or formerly of Christine Lundgren, 58.83 feet, said boundary having a bearing of N 75°33'27"E;
- NORTHERLY: AGAIN, by land now or formerly of Christine Lundgren, 66.26 feet, said boundary having a bearing of N 77°36'19"E;
- NORTHERLY: AGAIN, in part by land now or formerly of Christine Lundgren and in part by land now or formerly of E.V. & N.B. Bowen, in all, 51.36 feet, said boundary having a bearing of N 75°24'40"E;

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- NORTHERLY: AGAIN, by land now or formerly of E.V. & N.B. Bowen, 38.96 feet, said boundary having a bearing of N 80°42'12"E;
- NORTHERLY: AGAIN, by land now or formerly of E.V. & N.B. Bowen, 76.08 feet, said boundary having a bearing of N 76°46'19"E, all of said northerly boundaries being the center line of a stone wall;
- EASTERLY: In part by land now or formerly of E.J. & A.M. Overwise and in part by land now or formerly of Thomas & Carol Donegan, in all, 222.47 feet, said boundary having a bearing of S 25°36'55"E;
- EASTERLY: AGAIN, in part by land now or formerly of Thomas & Carol Donegan, in part by land now or formerly of R.D. & L.S. Sutton, and in part by land now or formerly of M.H. & V.M. Shaw, in all, 167.89 feet, said boundary having a bearing of S 17°42'45"E;
- EASTERLY: AGAIN, in part by land now or formerly of M.H. & V.M. Shaw and in part by land now or formerly of Doris Cheney and Linda Beeman, in all, 205.70 feet, said boundary having a bearing of S 14°15'35"E;
- EASTERLY: AGAIN, in part by land now or formerly of Doris Cheney and Linda Beeman and in part by land now or formerly of Peter Everetts, in all, 211.25 feet, said boundary having a bearing of S 07°16'25"E;
- SOUTHEASTERLY: By land now or formerly of Timothy & Carol Ryan, 24.59 feet, said boundary having a bearing of S 60°35'50"W, said boundary being the center line of a stone wall;
- SOUTHEASTERLY: AGAIN, by land now or formerly of Timothy & Carol Ryan, 88.04 feet, said boundary having a bearing of S 61°24'49"W, said boundary being the center line of a stone wall;
- SOUTHEASTERLY: AGAIN, by land now or formerly of Timothy & Carol Ryan, 12.65 feet, said boundary having a bearing of S 67°09'05"W, said boundary being the center line of a stone wall;
- EASTERLY: AGAIN, in part by land now or formerly of Timothy and Carol Ryan and in part by land now or formerly of Robert & Carol Brumper, in all, 192.32 feet, said boundary having a bearing of S 07°52'21"W;
- NORTHERLY: AGAIN, by land now or formerly of Robert & Carol Brumper, 4.00 feet, said boundary having a bearing of S 80°30'31"E;

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- EASTERLY: AGAIN, by land now or formerly of C.B. & J.R. Kelly, 120.00 feet, said boundary having a bearing of S 01°51'40"W;
- EASTERLY: AGAIN, by land now or formerly of Walter & Brian Holinko, 251.93 feet, said boundary having a bearing of S 17°00'58"E;
- SOUTHERLY: By land now or formerly of Pauline Nemerget, 8.594 feet, said boundary having a bearing of S 77°10'51"W;
- SOUTHERLY: AGAIN, by land now or formerly of Pauline Nemerget, 96.60 feet, said boundary having a bearing of S 87°06'11"W;
- SOUTHWESTERLY: By land now or formerly of Belmar Corporation, 48.31 feet, said boundary having a bearing of N 13°55'47"W;
- SOUTHWESTERLY: AGAIN, by land now or formerly of Belmar Corporation, 66.23 feet, said boundary having a bearing of N 25°50'46"W;
- SOUTHWESTERLY: AGAIN, by land now or formerly of Belmar Corporation, 46.73 feet, said boundary having a bearing of N 33°26'08"W;
- SOUTHWESTERLY: AGAIN, by land now or formerly of Belmar Corporation, 72.44 feet, said boundary having a bearing of N 38°14'47"W;
- SOUTHWESTERLY: AGAIN, by land now or formerly of Belmar Corporation, 46.47 feet, said boundary having a bearing of N 40°31'50"W;
- SOUTHWESTERLY: AGAIN, by land now or formerly of Belmar Corporation, 75.01 feet, said boundary having a bearing of N 47°54'59"W;
- SOUTHWESTERLY: AGAIN, by land now or formerly of Belmar Corporation, 103.51 feet, said boundary having a bearing of N 45°27'05"W, all of said southwesterly boundaries being the center line of a stone wall;
- SOUTHERLY: by land now or formerly of Belmar Corporation, 58.12 feet, said boundary having a bearing of S 60°09'57"W.

Tax I.D. Number: 00432800

Being the same property conveyed to City Park Commerce Drive, LLC, a Connecticut limited liability company and CH Commerce Drive Associates, LLC, a limited liability company, as their interests may appear, Grantee, from Pilot Corporation of America, Grantor, by deed recorded 06/25/2014, as Book 1666, Page 608 of the Trumbull Town Clerk Records.

and

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CONTRACT # _____

Being the same property conveyed to City Park Commerce Drive, LLC, a Connecticut limited liability company and CH Commerce Drive Associates, LLC, a Connecticut limited liability company, as their interests may appear, Grantee, from Pilot Corporation of America, Grantor, by deed recorded 06/25/2014, as Book 1666, Page 601 of the Trumbull Town Clerk Records.

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CT-5046 Trumbull II

EXHIBIT B

EXISTING TENANTS AND TOWER-RELATED LICENSES

RENT ROLL: TOWER-RELATED LICENSES

1. That certain Land Lease Agreement dated October 18th, 2013, as may be amended, by and between CH Commerce Drive Associates, LLC and City Park Commerce Drive, LLC, as successor-in-interest to Pilot Corporation of America as Lessor thereunder, and Cellco Partnership d/b/a Verizon Wireless as Lessee thereunder, as evidenced by the Memorandum of Land Lease Agreement dated October 18, 2013 and recorded on October 29, 2013 in Volume 1651 Page 901 of the Trumbull Town Clerk Records.

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CT-5046 Trumbull II

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EXHIBIT C

LEGAL DESCRIPTION OF EASEMENT PREMISES

Beginning at a northwesterly corner of the Easement Area herein described, said point being located N 76°49'28" E a distance of 260.02' from an iron rod found, thence;

S 15°49'11" E a distance of 8.92' to a point, thence;

S 74°10'49" W a distance of 35.00' to a point, thence;

S 15°49'11" E a distance of 20.00' to a point, thence;

N 74°10'49" E a distance of 117.00' to a point, thence;

N 15°49'11" W a distance of 29.16' to a point, thence;

S 74°03'43" W a distance of 39.19' to a point, thence;

S 73°57'58" W a distance of 42.81' to the point of beginning.

Having an area of 3,082 square feet or 0.071 acres, more or less.

Being shown on a survey drawing prepared by ProTerra Design Group, LLC, titled "Site Number CT-5046 Address: 60 Commerce Drive, Trumbull, CT 06611" and dated December 12, 2018.

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EXHIBIT D

LEGAL DESCRIPTION OF ACCESS EASEMENT

12' WIDE NON-EXCLUSIVE ACCESS EASEMENT DESCRIPTION:

Beginning at a point in the easterly terminus of Commerce Drive, said point being located S19°25'26"E a distance of 475.19' from an iron rod found, thence;

S 58°31'38" E a distance of 41.50' to a point, thence;

along a curve to the right with an arc length of 33.63', with a radius of 56.00',

with a chord bearing of S 41°19'32" E, with a chord length of 33.12' to a point, thence;

S 24°07'26" E a distance of 113.58' to a point, thence;

along a curve to the left with an arc length of 141.23', with a radius of 84.00',

with a chord bearing of S 72°17'24" E with a chord length of 125.17 to a point, thence;

N 59°32'39" E a distance of 355.58' to a point, thence;

along a curve to the left with an arc length of 51.03', with a radius of 44.00',

with a chord bearing of N 26°18'57" E, with a chord length of 48.22' to a point, thence;

N 06°54'44" W a distance of 167.90' to a point, thence;

along a curve to the left with an arc length of 51.12', with a radius of 44.00',

with a chord bearing of N 40°11'49" W, with a chord length of 48.29' to a point, thence;

N 73°28'54" W a distance of 3.65' to a point, thence;

along a curve to the right with an arc length of 56.32', with a radius of 56.00',

with a chord bearing of N 44°40'09" W, with a chord length of 53.98' to a point, thence;

N 15°51'25" W a distance of 210.56' to a point, thence;

along a curve to the left with an arc length of 13.73', with a radius of 9.00',

with a chord bearing of N 59°34'10" W, with a chord length of 12.44' to a point, thence;

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S 76°43'05" W a distance of 89.27' to a point, thence;
along a curve to the right with an arc length of 48.26', with a radius of 56.00',
with a chord bearing of N 78°35'30" W, with a chord length of 46.78' to a point, thence;
N 53°54'05" W a distance of 44.21' to a point, thence;
along a curve to the left with an arc length of 39.87', with a radius of 44.00',
with a chord bearing of N 79°51'38" W, with a chord length of 38.52' to a point, thence;
S 74°10'49" W a distance of 3.20' to a point, thence;
N 15°49'11" W a distance of 12.00' to a point, thence;
N 74°10'49" E a distance of 3.20' to a point, thence;
along a curve to the right with an arc length of 50.74', with a radius of 56.00',
with a chord bearing of S 79°51'38" E, with a chord length of 49.03' to a point, thence;
S 53°54'05" E a distance of 44.21' to a point, thence;
along a curve to the left with an arc length of 37.92', with a radius of 44.00',
with a chord bearing of S 78°35'30" E, with a chord length of 36.76' to a point, thence;
N 76°43'05" E a distance of 89.27' to a point, thence;
along a curve to the right with an arc length of 32.04', with a radius of 21.00',
with a chord bearing of S 59°34'10" E, with a chord length of 29.02' to a point, thence;
S 15°51'25" E a distance of 210.56' to a point, thence;
along a curve to the left with an arc length of 44.25', with a radius of 44.00',
with a chord bearing of S 44°40'09" E, with a chord length of 42.41' to a point, thence;
S 73°28'54" E a distance of 3.65' to a point, thence;
along a curve to the right with an arc length of 65.06', with a radius of 56.00',

with a chord bearing of S 40°11'49" E, with a chord length of 61.47' to a point, thence;
S 06°54'44" E a distance of 167.90' to a point, thence;
along a curve to the right with an arc length of 64.95', with a radius of 56.00',
with a chord bearing of S 26°18'57" W, with a chord length of 61.37' to a point, thence;
S 59°32'39" W a distance of 355.58' to a point, thence;
along a curve to the right with an arc length of 161.41', with a radius of 96.00',
with a chord bearing of N 72°17'24" W, with a chord length of 143.06' to a point, thence;
N 24°07'26" W a distance of 113.58' to a point, thence;
along a curve to the left with an arc length of 26.42', with a radius of 44.00',
with a chord bearing of N 41°19'32" W, with a chord length of 26.02' to a point, thence;
N 58°31'38" W a distance of 26.73' to a point, thence;
N 19°25'26" W a distance of 19.03' to the point of beginning.

Having on area of 17,773 square feet, or 0.408 acres, more or less.

Being shown on a survey drawing prepared by ProTerra Design Group, LLC, titled "Site
Number CT-5046 Address: 60 Commerce Drive, Trumbull, CT 06611" and dated December 12,
2018.

Lessor Site ID & No.: Trumbull SE 4 CT / 469122

Lessee Site ID & No.: NJJER01153A

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EXHIBIT E**LEGAL DESCRIPTION OF UTILITY EASEMENT**

Beginning at a point in the easterly terminus of Commerce Drive, said point being located S19°25'26"E a distance of 364.83' from an iron rod found, thence;

N 39°17'57" E a distance of 0.28' to a point, thence;

along a curve to the left with an arc length of 54.02', with a radius of 60.00',

with a chord bearing of N 13°30'18" E, with a chord length of 52.22' to a point, thence;

N 12°17'20" W a distance of 159.01' to a point, thence;

along a curve to the right with an arc length of 26.97', with a radius of 80.00',

with a chord bearing of N 02°37'47" W, with a chord length of 26.85' to a point, thence;

N 07°01'45" E a distance of 74.58' to a point, thence;

along a curve to the right with an arc length of 93.76', with a radius of 80.00',

with a chord bearing of N 40°36'17" E, with a chord length of 88.49' to a point, thence;

N 74°10'49" E a distance of 92.40' to a point, thence;

S 15°49'11" E a distance of 5.00' to a point, thence;

S 74°10'49" W a distance of 35.00' to a point, thence;

S 15°49'11" E a distance of 15.00' to a point, thence;

S 74°10'49" W a distance of 57.40' to a point, thence;

along a curve to the left with an arc length of 70.32', with a radius of 60.00',

with a chord bearing of S 40°36'17" W, with a chord length of 66.36' to a point, thence;

S 07°01'45" W a distance of 74.58' to a point, thence;

along a curve to the left with an arc length of 20.23', with a radius of 60.00',

with a chord bearing of S 02°37'47" E, with a chord length of 20.13' to a point, thence;

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CT-5046 Trumbull II

Lessor Site ID & No.: Trumbull SE 4 CT / 469122
Lessee Site ID & No.: NJJER01153A

CONTRACT # _____

S 12°17'20" E a distance of 159.01' to a point, thence;
along a curve to the right with an arc length of 72.03', with a radius of 80.00',
with a chord bearing of S 13°30'18" W, with a chord length of 69.62' to a point, thence;
S 39°17'57" W a distance of 12.43' to a point, thence;
N 19°25'26" W a distance of 23.40' to the point of beginning.
Having an area of 9,495 square feet or 0.218 acres, more or less.

Being shown on a survey drawing prepared by ProTerra Design Group, LLC, titled "Site
Number CT-5046 Address: 60 Commerce Drive, Trumbull, CT 06611" and dated December 12,
2018.

4842-0657-9323.5

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CT-5046 Trumbull II

Lessor Site ID & No.: Trumbull SE 4 CT / 469122

Lessee Site ID & No.: NJJER01153A

CONTRACT # _____

SITE NAME: Trumbull SE4, CT
SITE NUMBER: 20130931966
ATTY/DATE: Saunders/2013

LAND LEASE AGREEMENT

This Agreement, made this 18th day of October, 2013 between Pilot Corporation of America, a Delaware corporation with its principal offices located at 3855 Regent Boulevard, Jacksonville, Florida 32224, hereinafter designated LESSOR and Cellco Partnership d/b/a Verizon Wireless, a Delaware general partnership with its principal office located at One Verizon Way, Mail Stop 4AW100, Basking Ridge, New Jersey 07920 (telephone number 866-862-4404), hereinafter designated LESSEE. The LESSOR and LESSEE are at times collectively referred to hereinafter as the "Parties" or individually as the "Party".

1. **PREMISES.** LESSOR hereby leases to LESSEE a portion of that certain parcel of property (the entirety of LESSOR's property is referred to hereinafter as the Property), located at 60 Commerce Drive in the Town of Trumbull, County of Fairfield and State of Connecticut, and being described as a parcel containing 1,968 square feet (the "Land Space"), together with the non-exclusive right (the "Rights of Way") for ingress and egress, seven (7) days a week twenty-four (24) hours a day, on foot or motor vehicle, including trucks over or along a twenty (20') foot wide right-of-way extending from the nearest public right-of-way, Commerce Drive, to the Land Space, and for the installation and maintenance of utility wires, poles, cables, conduits, and pipes over, under, or along one or more rights of way from the Land Space, said Land Space and Rights of Way (hereinafter collectively referred to as the "Premises") being substantially as described herein in Exhibit "A" attached hereto and made a part hereof. The Property is also shown on the Tax Map K/09 of the Town of Trumbull as Block N/A, Lot 20 and is further described in Deed Book 470 at Page 50 as recorded in the Office of the Trumbull Town Clerk.

In the event any public utility is unable to use the Rights of Way, the LESSOR hereby agrees to grant an additional right-of-way either to the LESSEE or to the public utility at no cost to the LESSEE.

2. **SURVEY.** LESSOR also hereby grants to LESSEE the right to survey the Property and the Premises, and said survey shall then become Exhibit "B" which shall be attached hereto and made a part hereof, and shall control in the event of boundary and access discrepancies between it and Exhibit "A". Cost for such work shall be borne by the LESSEE.

3. **TERM; RENTAL.**

a. This Agreement shall be effective as of the date of execution by both Parties, provided, however, the initial term shall be for five (5) years and shall commence on the Commencement Date (as hereinafter defined) at which time rental payments shall commence and be due at a total annual rental of [REDACTED] to be paid in equal monthly installments on the first day of the month, in advance, to LESSOR or to such other person, firm or place as LESSOR may, from time to time, designate in writing at least thirty (30) days in advance of any rental payment date by notice given in accordance with Paragraph 23 below. The Agreement shall commence based upon the date LESSEE is granted a

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Lessor Site ID & No.: Trumbull SE 4 CT / 469122

Lessee Site ID & No.: NJJER01153A

CONTRACT # _____

building permit by the governmental agency charged with issuing such permits, or the date of execution of the Agreement by the Parties, whichever is later. In the event the date at which LESSEE is granted a building permit or the date of execution of the Agreement, whichever is applicable, falls between the 1st and 15th of the month, the Agreement shall commence on the 1st of that month and if such date falls between the 16th and 31st of the month, then the Agreement shall commence on the 1st day of the following month (either the "Commencement Date"). LESSOR and LESSEE acknowledge and agree that initial rental payment(s) shall not actually be sent by LESSEE until thirty (30) days after the Commencement Date. By way of illustration of the preceding sentence, if the Commencement Date is January 1, LESSEE shall send to the LESSOR the rental payments for January 1 and February 1 by February 1.

Upon agreement of the Parties, LESSEE may pay rent by electronic funds transfer and in such event, LESSOR agrees to provide to LESSEE bank routing information for such purpose upon request of LESSEE.

b. LESSOR hereby agrees to provide to LESSEE certain documentation (the "Rental Documentation") evidencing LESSOR's interest in, and right to receive payments under, this Agreement, including without limitation: (i) documentation, acceptable to LESSEE in LESSEE's reasonable discretion, evidencing LESSOR's good and sufficient title to and/or interest in the Property and right to receive rental payments and other benefits hereunder; and (ii) a complete and fully executed Internal Revenue Service Form W-9, or equivalent, in a form acceptable to LESSEE, for any party to whom rental payments are to be made pursuant to this Agreement. From time to time during the Term of this Agreement and within thirty (30) days of a written request from LESSEE, LESSOR agrees to provide updated Rental Documentation in a form reasonably acceptable to LESSEE. The Rental Documentation shall be provided to LESSEE in accordance with the provisions of and at the address given in Paragraph 23. Delivery of Rental Documentation to LESSEE shall be a prerequisite for the payment of any rent by LESSEE and notwithstanding anything to the contrary herein, LESSEE shall have no obligation to make any rental payments until Rental Documentation has been supplied to LESSEE as provided herein.

Within fifteen (15) days of obtaining an interest in the Property or this Agreement, any assignee(s), transferee(s) or other successor(s) in interest of LESSOR shall provide to LESSEE Rental Documentation in the manner set forth in the preceding paragraph. From time to time during the Term of this Agreement and within thirty (30) days of a written request from LESSEE, any assignee(s) or transferee(s) of LESSOR agrees to provide updated Rental Documentation in a form reasonably acceptable to LESSEE. Delivery of Rental Documentation to LESSEE by any assignee(s), transferee(s) or other successor(s) in interest of LESSOR shall be a prerequisite for the payment of any rent by LESSEE to such party and notwithstanding anything to the contrary herein, LESSEE shall have no obligation to make any rental payments to any assignee(s), transferee(s) or other successor(s) in interest of LESSOR until Rental Documentation has been supplied to LESSEE as provided herein.

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4. EXTENSIONS. This Agreement shall automatically be extended for four (4) additional five (5) year terms unless LESSEE terminates it at the end of the then current term by giving LESSOR written notice of the intent to terminate at least six (6) months prior to the end of the then current term.

5. EXTENSION RENTALS. The annual rental for the first (1st) five (5) year extension term shall be increased to [REDACTED]; the annual rental for the second (2nd) five (5) year extension term shall be increased to [REDACTED]; the annual rental for the third (3rd) five (5) year extension term shall be increased to [REDACTED]; and the annual rental for the fourth (4th) five (5) year extension term shall be increased to [REDACTED].

6. ADDITIONAL EXTENSIONS. If at the end of the fourth (4th) five (5) year extension term this Agreement has not been terminated by either Party by giving to the other written notice of an intention to terminate it at least three (3) months prior to the end of such term, this Agreement shall continue in force upon the same covenants, terms and conditions for a further term of five (5) years and for five (5) year terms thereafter until terminated by either Party by giving to the other written notice of its intention to so terminate at least three (3) months prior to the end of such term. Annual rental for each such additional five (5) year term shall be equal to 103% of the annual rental payable with respect to the immediately preceding five (5) year term. The initial term and all extensions shall be collectively referred to herein as the "Term".

7. TAXES. LESSEE shall have the responsibility to pay any personal property, real estate taxes, assessments, or charges owed on the Property which LESSOR demonstrates is the result of LESSEE's use of the Premises and/or the installation, maintenance, and operation of the LESSEE's improvements, and any sales tax imposed on the rent (except to the extent that LESSEE is or may become exempt from the payment of sales tax in the jurisdiction in which the Property is located), including any increase in real estate taxes at the Property which LESSOR demonstrates arises from the LESSEE's improvements and/or LESSEE's use of the Premises. LESSOR and LESSEE shall each be responsible for the payment of any taxes, levies, assessments and other charges imposed including franchise and similar taxes imposed upon the business conducted by LESSOR or LESSEE at the Property. Notwithstanding the foregoing, LESSEE shall not have the obligation to pay any tax, assessment, or charge that LESSEE is disputing in good faith in appropriate proceedings prior to a final determination that such tax is properly assessed provided that no lien attaches to the Property. Nothing in this Paragraph shall be construed as making LESSEE liable for any portion of LESSOR's income taxes in connection with any Property or otherwise. Except as set forth in this Paragraph, LESSOR shall have the responsibility to pay any personal property, real estate taxes, assessments, or charges owed on the Property and shall do so prior to the imposition of any lien on the Property.

LESSEE shall have the right, at its sole option and at its sole cost and expense, to appeal, challenge or seek modification of any tax assessment or billing for which LESSEE is wholly or partly responsible for payment. LESSOR shall reasonably cooperate with LESSEE at LESSEE's

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expense in filing, prosecuting and perfecting any appeal or challenge to taxes as set forth in the preceding sentence, including but not limited to, executing any consent, appeal or other similar document. In the event that as a result of any appeal or challenge by LESSEE, there is a reduction, credit or repayment received by the LESSOR for any taxes previously paid by LESSEE, LESSOR agrees to promptly reimburse to LESSEE the amount of said reduction, credit or repayment. In the event that LESSEE does not have the standing rights to pursue a good faith and reasonable dispute of any taxes under this paragraph, LESSOR will pursue such dispute at LESSEE's sole cost and expense upon written request of LESSEE.

8. USE; GOVERNMENTAL APPROVALS. LESSEE shall use the Premises for the purpose of constructing, maintaining, repairing and operating a communications facility and uses incidental thereto. A security fence consisting of chain link construction or similar but comparable construction shall be placed around the perimeter of the Premises (not including the access easement). All improvements, equipment, antennas and conduits shall be at LESSEE's expense and their installation shall be at the discretion and option of LESSEE. LESSEE shall have the right to replace, repair, add or otherwise modify its utilities, equipment, antennas and/or conduits or any portion thereof and the frequencies over which the equipment operates, whether the equipment, antennas, conduits or frequencies are specified or not on any exhibit attached hereto, during the Term. It is understood and agreed that LESSEE's ability to use the Premises is contingent upon its obtaining after the execution date of this Agreement all of the certificates, permits and other approvals (collectively the "Governmental Approvals") that may be required by any Federal, State or Local authorities as well as satisfactory soil boring tests which will permit LESSEE use of the Premises as set forth above. LESSOR shall cooperate with LESSEE in its effort to obtain such approvals and shall take no action which would adversely affect the status of the Property with respect to the proposed use thereof by LESSEE. In the event that (i) any of such applications for such Governmental Approvals should be finally rejected; (ii) any Governmental Approval issued to LESSEE is canceled, expires, lapses, or is otherwise withdrawn or terminated by governmental authority; (iii) LESSEE determines that such Governmental Approvals may not be obtained in a timely manner; (iv) LESSEE determines that any soil boring tests are unsatisfactory; (v) LESSEE determines that the Premises is no longer technically compatible for its use, or (vi) LESSEE, in its sole discretion, determines that the use the Premises is obsolete or unnecessary, LESSEE shall have the right to terminate this Agreement. Notice of LESSEE's exercise of its right to terminate shall be given to LESSOR in writing by certified mail, return receipt requested, and shall be effective upon the mailing of such notice by LESSEE, or upon such later date as designated by LESSEE. All rentals paid to said termination date shall be retained by LESSOR. Upon such termination, this Agreement shall be of no further force or effect except to the extent of the representations, warranties and indemnities made by each Party to the other hereunder. Otherwise, the LESSEE shall have no further obligations for the payment of rent to LESSOR.

9. INDEMNIFICATION. Subject to Paragraph 10 below, each Party shall indemnify and hold the other harmless against any claim of liability or loss from personal injury or property damage resulting from or arising out of the negligence or willful misconduct of the indemnifying Party, its employees, contractors or agents, except to the extent such claims or damages may be due to or caused by the negligence or willful misconduct of the other Party, or its employees, contractors or agents.

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10. INSURANCE.

a. Intentionally Omitted.

b. LESSEE agrees that, at its own cost and expense, it will maintain commercial general liability insurance with limits not less than \$5,000,000.00 for injury to or death of one or more persons in any one occurrence and \$5,000,000.00 for damage or destruction to property in any one occurrence. LESSEE agrees that it will include the LESSOR as an additional insured on all applicable policies.

11. LIMITATION OF LIABILITY. Except for indemnification pursuant to Paragraphs 9 and 29, neither Party shall be liable to the other, or any of their respective agents, representatives, employees for any lost revenue, lost profits, loss of technology, rights or services, incidental, punitive, indirect, special or consequential damages, loss of data, or interruption or loss of use of service, even if advised of the possibility of such damages, whether under theory of contract, tort (including negligence), strict liability or otherwise.

12. ANNUAL TERMINATION. Notwithstanding anything to the contrary contained herein, provided LESSEE is not in default hereunder beyond applicable notice and cure periods, LESSEE shall have the right to terminate this Agreement upon the annual anniversary of the Commencement Date provided that three (3) months prior notice is given to LESSOR.

13. INTERFERENCE. LESSEE agrees to install equipment of the type and frequency which will not cause harmful interference which is measurable in accordance with then existing industry standards to any equipment of LESSOR or other lessees of the Property which existed on the Property prior to the date this Agreement is executed by the Parties. In the event any after-installed LESSEE's equipment causes such interference, and after LESSOR has notified LESSEE in writing of such interference, LESSEE will take all commercially reasonable steps necessary to correct and eliminate the interference, including but not limited to, at LESSEE's option, powering down such equipment and later powering up such equipment for intermittent testing. In no event will LESSOR be entitled to terminate this Agreement or relocate the equipment as long as LESSEE is making a good faith effort to remedy the interference issue. LESSOR agrees that LESSOR and/or any other tenants of the Property who currently have or in the future take possession of the Property will be permitted to install only such equipment that is of the type and frequency which will not cause harmful interference which is measurable in accordance with then existing industry standards to the then existing equipment of LESSEE. The Parties acknowledge that there will not be an adequate remedy at law for noncompliance with the provisions of this Paragraph and therefore, either Party shall have the right to equitable remedies, such as, without limitation, injunctive relief and specific performance.

14. REMOVAL AT END OF TERM. LESSEE shall, upon expiration of the Term, or within ninety (90) days after any earlier termination of the Agreement, remove its building(s), antenna structure(s) (except footings), equipment, conduits, fixtures and all personal property and restore the Premises to its original condition, reasonable wear and tear and casualty damage excepted. LESSOR agrees and acknowledges that all of the equipment, conduits, fixtures and

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personal property of LESSEE shall remain the personal property of LESSEE and LESSEE shall have the right to remove the same at any time during the Term, whether or not said items are considered fixtures and attachments to real property under applicable Laws (as defined in Paragraph 33 below). If such time for removal causes LESSEE to remain on the Premises after termination of this Agreement, LESSEE shall pay rent at the then existing monthly rate or on the existing monthly pro-rata basis if based upon a longer payment term, until such time as the removal of the building, antenna structure, fixtures and all personal property are completed.

15. HOLDOVER. LESSEE has no right to retain possession of the Premises or any part thereof beyond the expiration of that removal period set forth in Paragraph 14 herein, unless the Parties are negotiating a new lease or lease extension in good faith. In the event that the Parties are not in the process of negotiating a new lease or lease extension in good faith, LESSEE holds over in violation of Paragraph 14 and this Paragraph 15, then the rent then in effect payable from and after the time of the expiration or earlier removal period set forth in Paragraph 14 shall equal to the rent applicable during the month immediately preceding such expiration or earlier termination.

16. RIGHT OF FIRST REFUSAL. If LESSOR elects, during the Term (i) to sell or otherwise transfer all or any portion of the Property, whether separately or as part of a larger parcel of which the Property is a part, or (ii) to grant to a third party by easement or other legal instrument an interest in and to that portion of the Property occupied by LESSEE, or a larger portion thereof, for the purpose of operating and maintaining communications facilities or the management thereof, with or without an assignment of this Agreement to such third party, LESSEE shall have the right of first refusal to meet any bona fide offer of sale or transfer on the same terms and conditions of such offer. If LESSEE fails to meet such bona fide offer within thirty (30) days after written notice thereof from LESSOR, LESSOR may sell or grant the easement or interest in the Property or portion thereof to such third person in accordance with the terms and conditions of such third party offer. For purposes of this Paragraph, any transfer, bequest or devise of LESSOR's interest in the Property as a result of the death of LESSOR, whether by will or intestate succession, or any conveyance to LESSOR's family members by direct conveyance or by conveyance to a trust for the benefit of family members shall not be considered a sale of the Property for which LESSEE has any right of first refusal.

17. RIGHTS UPON SALE. Should LESSOR, at any time during the Term decide (i) to sell or transfer all or any part of the Property to a purchaser other than LESSEE, or (ii) to grant to a third party by easement or other legal instrument an interest in and to that portion of the Property occupied by LESSEE, or a larger portion thereof, for the purpose of operating and maintaining communications facilities or the management thereof, such sale or grant of an easement or interest therein shall be under and subject to this Agreement and any such purchaser or transferee shall recognize LESSEE's rights hereunder under the terms of this Agreement. To the extent that LESSOR grants to a third party by easement or other legal instrument an interest in and to that portion of the Property occupied by LESSEE for the purpose of operating and maintaining communications facilities or the management thereof and in conjunction therewith, assigns this Agreement to said third party, LESSOR shall not be released from its obligations to

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LESSEE under this Agreement, and LESSEE shall have the right to look to LESSOR and the third party for the full performance of this Agreement.

18. QUIET ENJOYMENT. LESSOR covenants that LESSEE, on paying the rent and performing the covenants herein, shall peaceably and quietly have, hold and enjoy the Premises.

19. TITLE. LESSOR represents and warrants to LESSEE as of the execution date of this Agreement, and covenants during the Term that LESSOR is seized of good and sufficient title and interest to the Property and has full authority to enter into and execute this Agreement. LESSOR further covenants during the Term that there are no liens, judgments or impediments of title on the Property, or affecting LESSOR's title to the same and that there are no covenants, easements or restrictions which prevent or adversely affect the use or occupancy of the Premises by LESSEE as set forth above.

20. INTEGRATION. It is agreed and understood that this Agreement contains all agreements, promises and understandings between LESSOR and LESSEE and that no verbal or oral agreements, promises or understandings shall be binding upon either LESSOR or LESSEE in any dispute, controversy or proceeding at law, and any addition, variation or modification to this Agreement shall be void and ineffective unless made in writing signed by the Parties or in a written acknowledgment in the case provided in Paragraph 3. In the event any provision of the Agreement is found to be invalid or unenforceable, such finding shall not affect the validity and enforceability of the remaining provisions of this Agreement. The failure of either Party to insist upon strict performance of any of the terms or conditions of this Agreement or to exercise any of its rights under the Agreement shall not waive such rights and such Party shall have the right to enforce such rights at any time and take such action as may be lawful and authorized under this Agreement, in law or in equity.

21. GOVERNING LAW. This Agreement and the performance thereof shall be governed, interpreted, construed and regulated by the Laws of the State in which the Property is located.

22. ASSIGNMENT. This Agreement may be sold, assigned or transferred by the LESSEE without any approval or consent of the LESSOR to the LESSEE's principal, affiliates, subsidiaries of its principal or to any entity which acquires all or substantially all of LESSEE's assets in the market defined by the Federal Communications Commission in which the Property is located by reason of a merger, acquisition or other business reorganization. As to other parties, this Agreement may not be sold, assigned or transferred without the written consent of the LESSOR, which such consent will not be unreasonably withheld, delayed or conditioned. No change of stock ownership, partnership interest or control of LESSEE or transfer upon partnership or corporate dissolution of LESSEE shall constitute an assignment hereunder. LESSEE may sublet the Premises within its sole discretion, upon notice to LESSOR. Any sublease that is entered into by LESSEE shall be subject to the provisions of this Agreement and shall be binding upon the successors, assigns, heirs and legal representatives of the respective Parties hereto.

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23. NOTICES. All notices hereunder must be in writing and shall be deemed validly given if sent by certified mail, return receipt requested or by commercial courier, provided the courier's regular business is delivery service and provided further that it guarantees delivery to the addressee by the end of the next business day following the courier's receipt from the sender, addressed as follows (or any other address that the Party to be notified may have designated to the sender by like notice):

LESSOR: Pilot Corporation of America
3855 Regent Boulevard
Jacksonville, Florida 32224
Attention: Nicholas Niejelow

LESSEE: Cellco Partnership
d/b/a Verizon Wireless
180 Washington Valley Road
Bedminster, New Jersey 07921
Attention: Network Real Estate

Notice shall be effective upon actual receipt or refusal as shown on the receipt obtained pursuant to the foregoing.

24. SUCCESSORS. This Agreement shall extend to and bind the heirs, personal representative, successors and assigns of the Parties hereto.

25. SUBORDINATION AND NON-DISTURBANCE. LESSOR shall obtain not later than fifteen (15) days following the execution of this Agreement, a Non-Disturbance Agreement, as defined below, from its existing mortgagee(s), ground lessors and master lessors, if any, of the Property. At LESSOR's option, this Agreement shall be subordinate to any future master lease, ground lease, mortgage, deed of trust or other security interest (a "Mortgage") by LESSOR which from time to time may encumber all or part of the Property or right-of-way; provided, however, as a condition precedent to LESSEE being required to subordinate its interest in this Agreement to any future Mortgage covering the Property, LESSOR shall obtain for LESSEE's benefit a non-disturbance and attornment agreement for LESSEE's benefit in the form reasonably satisfactory to LESSEE, and containing the terms described below (the "Non-Disturbance Agreement"), and shall recognize LESSEE's right to remain in occupancy of and have access to the Premises as long as LESSEE is not in default of this Agreement beyond applicable notice and cure periods. The Non-Disturbance Agreement shall include the encumbering party's ("Lender's") agreement that, if Lender or its successor-in-interest or any purchaser of Lender's or its successor's interest (a "Purchaser") acquires an ownership interest in the Property, Lender or such successor-in-interest or Purchaser will (1) honor all of the terms of the Agreement, (2) fulfill LESSOR's obligations under the Agreement, and (3) promptly cure all of the then-existing LESSOR defaults under the Agreement. Such Non-Disturbance Agreement must be binding on all of Lender's participants in the subject loan (if any) and on all successors and assigns of Lender and/or its participants and on all Purchasers. In return for such Non-Disturbance Agreement, LESSEE will execute an agreement for Lender's benefit in which LESSEE (1) confirms that the

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Agreement is subordinate to the Mortgage or other real property interest in favor of Lender, (2) agrees to attorn to Lender if Lender becomes the owner of the Property and (3) agrees to accept a cure by Lender of any of LESSOR's defaults, provided such cure is completed within the deadline applicable to LESSOR. In the event LESSOR defaults in the payment and/or other performance of any mortgage or other real property interest encumbering the Property, LESSEE, may, at its sole option and without obligation, cure or correct LESSOR's default and upon doing so, LESSEE shall be subrogated to any and all rights, titles, liens and equities of the holders of such mortgage or other real property interest and LESSEE shall be entitled to deduct and setoff against all rents that may otherwise become due under this Agreement the sums paid by LESSEE to cure or correct such defaults.

26. RECORDING. LESSOR agrees to execute a Memorandum of this Agreement which LESSEE may record with the appropriate recording officer. The date set forth in the Memorandum of Lease is for recording purposes only and bears no reference to commencement of either the Term or rent payments.

27. DEFAULT.

a. In the event there is a breach by LESSEE with respect to any of the provisions of this Agreement or its obligations under it, including the payment of rent, LESSOR shall give LESSEE written notice of such breach. After receipt of such written notice, LESSEE shall have fifteen (15) days in which to cure any monetary breach and thirty (30) days in which to cure any non-monetary breach, provided LESSEE shall have such extended period as may be required beyond the thirty (30) days if the nature of the cure is such that it reasonably requires more than thirty (30) days and LESSEE commences the cure within the thirty (30) day period and thereafter continuously and diligently pursues the cure to completion. LESSOR may not maintain any action or effect any remedies for default against LESSEE unless and until LESSEE has failed to cure the breach within the time periods provided in this Paragraph.

b. In the event there is a breach by LESSOR with respect to any of the provisions of this Agreement or its obligations under it, LESSEE shall give LESSOR written notice of such breach. After receipt of such written notice, LESSOR shall have thirty (30) days in which to cure any such breach, provided LESSOR shall have such extended period as may be required beyond the thirty (30) days if the nature of the cure is such that it reasonably requires more than thirty (30) days and LESSOR commences the cure within the thirty (30) day period and thereafter continuously and diligently pursues the cure to completion. LESSEE may not maintain any action or effect any remedies for default against LESSOR unless and until LESSOR has failed to cure the breach within the time periods provided in this Paragraph. Notwithstanding the foregoing to the contrary, it shall be a default under this Agreement if LESSOR fails, within five (5) days after receipt of written notice of such breach, to perform an obligation required to be performed by LESSOR if the failure to perform such an obligation interferes with LESSEE's ability to conduct its business on the Property; provided, however, that if the nature of LESSOR's obligation is such that more than five (5) days after such notice is reasonably required for its performance, then it shall not be a default under this Agreement if performance is commenced within such five (5) day period and thereafter diligently pursued to completion.

(#2280479; 2)

Lessor Site ID & No.: Trumbull SE 4 CT / 469122

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CONTRACT # _____

28. REMEDIES. Upon a default, the non-defaulting Party may at its option (but without obligation to do so), perform the defaulting Party's duty or obligation on the defaulting Party's behalf, including but not limited to the obtaining of reasonably required insurance policies. The costs and expenses of any such performance by the non-defaulting Party shall be due and payable by the defaulting Party upon invoice therefor. In the event of a default by either Party with respect to a material provision of this Agreement, without limiting the non-defaulting Party in the exercise of any right or remedy which the non-defaulting Party may have by reason of such default, the non-defaulting Party may terminate the Agreement and/or pursue any remedy now or hereafter available to the non-defaulting Party under the Laws or judicial decisions of the state in which the Premises are located; provided, however, LESSOR shall use reasonable efforts to mitigate its damages in connection with a default by LESSEE. If LESSEE so performs any of LESSOR's obligations hereunder, the full amount of the reasonable and actual cost and expense incurred by LESSEE shall immediately be owing by LESSOR to LESSEE, and LESSOR shall pay to LESSEE upon demand the full undisputed amount thereof with interest thereon from the date of payment at the greater of (i) [REDACTED] or (ii) the highest rate permitted by applicable Laws. Notwithstanding the foregoing, if LESSOR does not pay LESSEE the full undisputed amount within thirty (30) days of its receipt of an invoice setting forth the amount due from LESSOR, LESSEE may offset the full undisputed amount, including all accrued interest, due against all fees due and owing to LESSOR until the full undisputed amount, including all accrued interest, is fully reimbursed to LESSEE.

29. ENVIRONMENTAL.

a. LESSOR will be responsible for all obligations of compliance with any and all environmental and industrial hygiene laws, including any regulations, guidelines, standards, or policies of any governmental authorities regulating or imposing standards of liability or standards of conduct with regard to any environmental or industrial hygiene conditions or concerns as may now or at any time hereafter be in effect, that are or were in any way related to activity now conducted in, on, or in any way related to the Property, unless such conditions or concerns are caused by the specific activities of LESSEE in the Premises.

b. LESSOR shall hold LESSEE harmless and indemnify LESSEE from and assume all duties, responsibility and liability at LESSOR's sole cost and expense, for all duties, responsibilities, and liability (for payment of penalties, sanctions, forfeitures, losses, costs, or damages) and for responding to any action, notice, claim, order, summons, citation, directive, litigation, investigation or proceeding which is in any way related to: a) failure to comply with any environmental or industrial hygiene law, including without limitation any regulations, guidelines, standards, or policies of any governmental authorities regulating or imposing standards of liability or standards of conduct with regard to any environmental or industrial hygiene concerns or conditions as may now or at any time hereafter be in effect, unless such non-compliance results from conditions caused by LESSEE; and b) any environmental or industrial hygiene conditions arising out of or in any way related to the condition of the Property or activities conducted thereon, unless such environmental conditions are caused by LESSEE.

{N2280479;2}

Lessor Site ID & No.: Trumbull SE 4 CT / 469122

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30. CASUALTY. In the event of damage by fire or other casualty to the Premises that cannot reasonably be expected to be repaired within forty-five (45) days following same or, if the Property is damaged by fire or other casualty so that such damage may reasonably be expected to disrupt LESSEE's operations at the Premises for more than forty-five (45) days, then LESSEE may, at any time following such fire or other casualty, provided LESSOR has not completed the restoration required to permit LESSEE to resume its operation at the Premises, terminate this Agreement upon fifteen (15) days prior written notice to LESSOR. Any such notice of termination shall cause this Agreement to expire with the same force and effect as though the date set forth in such notice were the date originally set as the expiration date of this Agreement and the Parties shall make an appropriate adjustment, as of such termination date, with respect to payments due to the other under this Agreement. Notwithstanding the foregoing, the rent shall abate during the period of repair following such fire or other casualty in proportion to the degree to which LESSEE's use of the Premises is impaired.

31. CONDEMNATION. In the event of any condemnation of all or any portion of the Property, this Agreement shall terminate as to the part so taken as of the date the condemning authority takes title or possession, whichever occurs first. If as a result of a partial condemnation of the Premises or Property, LESSEE, in LESSEE's sole discretion, is unable to use the Premises for the purposes intended hereunder, or if such condemnation may reasonably be expected to disrupt LESSEE's operations at the Premises for more than forty-five (45) days, LESSEE may, at LESSEE's option, to be exercised in writing within fifteen (15) days after LESSOR shall have given LESSEE written notice of such taking (or in the absence of such notice, within fifteen (15) days after the condemning authority shall have taken possession) terminate this Agreement as of the date the condemning authority takes such possession. LESSEE may on its own behalf make a claim in any condemnation proceeding involving the Premises for losses related to the equipment, conduits, fixtures, its relocation costs and its damages and losses (but not for the loss of its leasehold interest). Any such notice of termination shall cause this Agreement to expire with the same force and effect as though the date set forth in such notice were the date originally set as the expiration date of this Agreement and the Parties shall make an appropriate adjustment as of such termination date with respect to payments due to the other under this Agreement. If LESSEE does not terminate this Agreement in accordance with the foregoing, this Agreement shall remain in full force and effect as to the portion of the Premises remaining, except that the rent shall be reduced in the same proportion as the rentable area of the Premises taken bears to the total rentable area of the Premises. In the event that this Agreement is not terminated by reason of such condemnation, LESSOR shall promptly repair any damage to the Premises caused by such condemning authority.

32. SUBMISSION OF AGREEMENT/PARTIAL INVALIDITY/AUTHORITY. The submission of this Agreement for examination does not constitute an offer to lease the Premises and this Agreement becomes effective only upon the full execution of this Agreement by the Parties. If any provision herein is invalid, it shall be considered deleted from this Agreement and shall not invalidate the remaining provisions of this Agreement. Each of the Parties hereto warrants to the other that the person or persons executing this Agreement on behalf of such Party has the full right, power and authority to enter into and execute this Agreement on such Party's

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Lessor Site ID & No.: Trumbull SE 4 CT / 469122
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CONTRACT # _____

behalf and that no consent from any other person or entity is necessary as a condition precedent to the legal effect of this Agreement.

33. APPLICABLE LAWS. During the Term, LESSOR shall maintain the Property in compliance with all applicable laws, rules, regulations, ordinances, directives, covenants, easements, zoning and land use regulations, and restrictions of record, permits, building codes, and the requirements of any applicable fire insurance underwriter or rating bureau, now in effect or which may hereafter come into effect (including, without limitation, the Americans with Disabilities Act and laws regulating hazardous substances) (collectively "Laws"). LESSEE shall, in respect to the condition of the Premises and at LESSEE's sole cost and expense, comply with (a) all Laws relating solely to LESSEE's specific and unique nature of use of the Premises (other than general office use); and (b) all building codes requiring modifications to the Premises due to the improvements being made by LESSEE in the Premises.

34. SURVIVAL. The provisions of the Agreement relating to indemnification from one Party to the other Party shall survive any termination or expiration of this Agreement. Additionally, any provisions of this Agreement which require performance subsequent to the termination or expiration of this Agreement shall also survive such termination or expiration.

35. CAPTIONS. The captions contained in this Agreement are inserted for convenience only and are not intended to be part of the Agreement. They shall not affect or be utilized in the construction or interpretation of the Agreement.

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Lessor Site ID & No.: Trumbull SE 4 CT / 469122
Lessee Site ID & No.: NJJER01153A

CONTRACT # _____

IN WITNESS WHEREOF, the Parties hereto have set their hands and affixed their respective seals the day and year first above written.

LESSOR:
Pilot Corporation of America

Elena Bischof
WITNESS

Elena Bischof

By: [Signature]

Its: Vice President NBD

Date: August 24, 2013

LESSEE:
Cellco Partnership d/b/a Verizon Wireless

[Signature]
WITNESS

Karen Paul

By: [Signature]

David R. Heverling
Its: Area Vice President Network

Date: 10 18 13

(W2280479;2)

Lessor Site ID & No.: Trumbull SE 4 CT / 469122
Lessee Site ID & No.: NJJER01153A

CONTRACT # _____

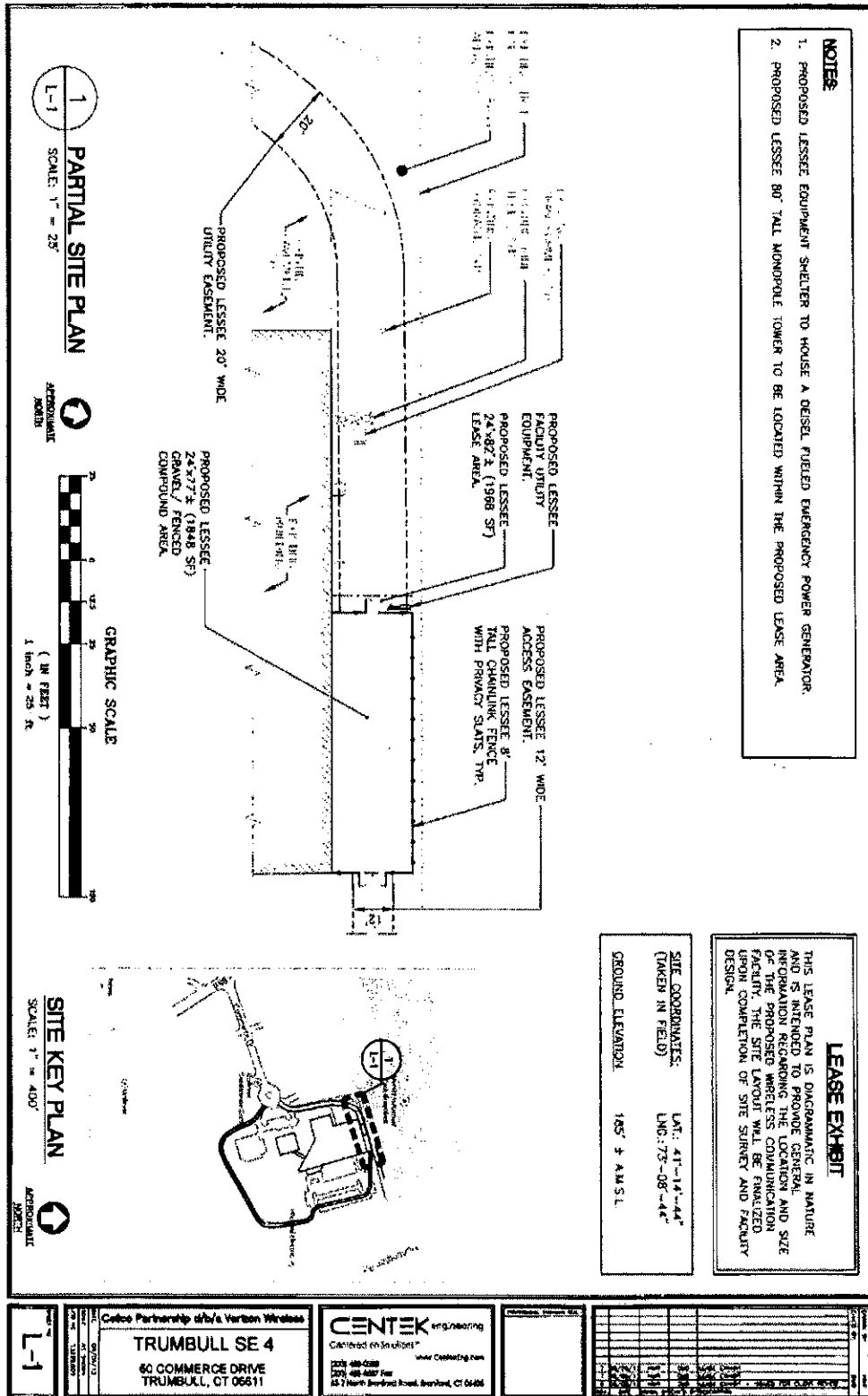
Exhibit "A" (Page 1 of 2)

All that certain piece or parcel of land, together with the buildings and improvements there on, situated in the Town of Trumbull, County of Fairfield and State of Connecticut being shown and designated as Lot 4 A = 610,700 S.F. 14.02 AC. on certin map entitled "Boundary Map Lot No 4 Commerce Drive Trumbull, Connecticut Prepared for Commerce Drive Associates Scale: 1"=50' Date: Dec. 4, 1981" which map was revised on 5-4-82 is on file in the Office of the Town Clerk of Trumbull as Map No. 2213.

Lessor Site ID & No.: Trumbull SE 4 CT / 469122
Lessee Site ID & No.: NJJER01153A

CONTRACT # _____

Exhibit "A" (Page 2 of 2)



DS
HSA HSG

Lessor Site ID & No.: Trumbull SE 4 CT / 469122
Lessee Site ID & No.: NJJER01153A

CONTRACT # _____

EXHIBIT 5 TO SUPPLEMENT

WRITTEN ACKNOWLEDGMENT OF LEASE COMMENCEMENT

[To be sent by or on behalf of LESSOR to LESSEE]

Re: COMMENCEMENT LETTER
Supplement by and between Celco Partnership ("LESSOR") and DISH Wireless L.L.C.
("LESSEE") dated _____.
Site Reference: Trumbull SE 4 CT / 469122
LESSEE Site Reference: NJJER01153A

Dear _____:

The Master Tower Lease Agreement between LESSOR and LESSEE defines the Commencement Date of any Supplement as the earlier of three (3) months from full execution of the Supplement or the first day of the calendar month following the commencement of installation of LESSEE's communications equipment at such Site.

This letter is to notify you that three (3) months expired on _____ and the **Commencement Date is hereby established as _____**. **That date is also the date that rent commences under the Supplement.** LESSEE agrees to provide a copy of this signed Commencement Letter to LESSEE's accounting group to ensure proper rent credit.

Or

This letter is to notify you that installation started on _____ thereby the **Commencement Date is hereby established as _____**. **That date is also the date that rent commences under the Supplement.** LESSEE agrees to provide a copy of this signed Commencement Letter to LESSEE's accounting group to ensure proper rent credit.

If you have any questions, please feel free to call me at _____.

Sincerely,

Certificate Of Completion

Envelope Id: 1689ADAF534B46E98859AD8C861135A9
 Subject: DocuSign: 469122 DISH_Trumbull SE 4_PE_SLA
 Source Envelope:
 Document Pages: 67
 Certificate Pages: 1
 AutoNav: Enabled
 Envelope Stamping: Disabled
 Time Zone: (UTC-05:00) Eastern Time (US & Canada)

Status: Completed

Envelope Originator:
 Tammy Yeadon
 1095 Ave of The Americas
 New York, NY 10036-6704
 tammy.yeadon@verizonwireless.com
 IP Address: 137.188.108.39

Signatures: 1
 Initials: 0

Record Tracking

Status: Original
 11/23/2022 | 10:56 AM

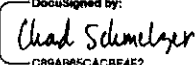
Holder: Tammy Yeadon
 tammy.yeadon@verizonwireless.com

Location: DocuSign

Signer Events

Chad Schmelzer
 chad.schmelzer@verizonwireless.com
 Sr. Manager- Network Engineering & Operations
 Security Level: Email, Account Authentication
 (None)

Signature

DocuSigned by:

 C89AB65CAC8F4F2...

Timestamp

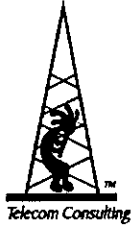
Sent: 11/23/2022 | 10:57 AM
 Viewed: 11/23/2022 | 10:58 AM
 Signed: 11/23/2022 | 10:58 AM

Signature Adoption: Pre-selected Style
 Using IP Address: 69.78.100.101

Electronic Record and Signature Disclosure:
 Not Offered via DocuSign

In Person Signer Events	Signature	Timestamp
Editor Delivery Events	Status	Timestamp
Agent Delivery Events	Status	Timestamp
Intermediary Delivery Events	Status	Timestamp
Certified Delivery Events	Status	Timestamp
Carbon Copy Events	Status	Timestamp
Witness Events	Signature	Timestamp
Notary Events	Signature	Timestamp
Envelope Summary Events	Status	Timestamps
Envelope Sent	Hashed/Encrypted	11/23/2022 10:57 AM
Certified Delivered	Security Checked	11/23/2022 10:58 AM
Signing Complete	Security Checked	11/23/2022 10:58 AM
Completed	Security Checked	11/23/2022 10:58 AM
Payment Events	Status	Timestamps

Exhibit F
Emissions Report



PINNACLE TELECOM GROUP

Professional and Technical Services

ANTENNA SITE FCC RF COMPLIANCE ASSESSMENT AND REPORT FOR MUNICIPAL SUBMISSION



PREPARED FOR: DISH Wireless, LLC

SITE ID: NJJER01153A

SITE ADDRESS: 60 COMMERCE DRIVE
TRUMBULL, CT

LATITUDE: N 41.245601

LONGITUDE: W 73.145678

STRUCTURE TYPE: MONOPOLE

REPORT DATE: AUGUST 29, 2022

COMPLIANCE CONCLUSION: DISH Wireless, LLC will be in compliance with the rules and regulations as described in OET BULLETIN 65, following the implementation of the proposed mitigation as detailed in the report.

14 RIDGEDALE AVENUE - SUITE 260 • CEDAR KNOLLS, NJ 07927 • 973-451-1630

CONTENTS

INTRODUCTION AND SUMMARY	3
ANTENNA AND TRANSMISSION DATA	5
COMPLIANCE ANALYSIS	11
COMPLIANCE CONCLUSION	19

CERTIFICATION

APPENDIX A. DOCUMENTS USED TO PREPARE THE ANALYSIS

APPENDIX B. BACKGROUND ON THE FCC MPE LIMIT

APPENDIX C. PROPOSED SIGNAGE

APPENDIX D. SUMMARY OF EXPERT QUALIFICATIONS

INTRODUCTION AND SUMMARY

At the request of DISH Wireless, LLC ("DISH"), Pinnacle Telecom Group has performed an independent expert assessment of radiofrequency (RF) levels and related FCC compliance for proposed wireless base station antenna operations on an existing monopole located at 60 Commerce Drive in Trumbull, CT. DISH refers to the antenna site by the code "NJJER01153A", and its proposed operation involves directional panel antennas and transmission in the 600 MHz, 2000 MHz and 2100 MHz frequency bands licensed to it by the FCC.

The FCC requires all wireless antenna operators to perform an assessment of potential human exposure to radiofrequency (RF) fields emanating from all the transmitting antennas at a site whenever antenna operations are added or modified, and to ensure compliance with the Maximum Permissible Exposure (MPE) limit in the FCC's regulations. In this case, the compliance assessment needs to take into account the RF effects of other existing antenna operations at the site by Verizon Wireless. Note that FCC regulations require any future antenna collocators to assess and assure continuing compliance based on the cumulative effects of all then-proposed and then-existing antennas at the site.

This report describes a mathematical analysis of RF levels resulting around the site in areas of unrestricted public access, that is, at street level around the site. The compliance analysis employs a standard FCC formula for calculating the effects of the antennas in a very conservative manner, in order to overstate the RF levels and to ensure "safe-side" conclusions regarding compliance with the FCC limit for safe continuous exposure of the general public.

The results of a compliance assessment can be described in layman's terms by expressing the calculated RF levels as simple percentages of the FCC MPE limit. If the normalized reference for that limit is 100 percent, then calculated RF levels higher than 100 percent indicate the MPE limit is exceeded and there is a need to mitigate the potential exposure. On the other hand, calculated RF levels consistently below 100 percent serve as a clear and sufficient demonstration of compliance with the MPE limit. We can (and will) also describe the overall worst-case result via the "plain-English" equivalent "times-below-the-limit" factor.

The result of the RF compliance assessment in this case is as follows:

- At street level, the conservatively calculated maximum RF level from the combination of proposed and existing antenna operations at the site is 3.9721 percent of the FCC general population MPE limit – well below the 100-percent reference for compliance. In other words, the worst-case calculated RF level – intentionally and significantly overstated by the calculations – is still more than 25 times below the FCC limit for safe, continuous exposure of the general public.
- A supplemental analysis of the RF levels at the same height as the DISH antennas indicate that the FCC MPE limit is potentially exceeded. Therefore, it is recommended that three Caution signs and NOC Information signs be installed at the base of the monopole.
- The results of the calculations, along with the proposed mitigation, combine to satisfy the FCC requirements and associated guidelines on RF compliance. Moreover, because of the significant conservatism incorporated in the analysis, RF levels actually caused by the antennas will be lower than these calculations indicate.

The remainder of this report provides the following:

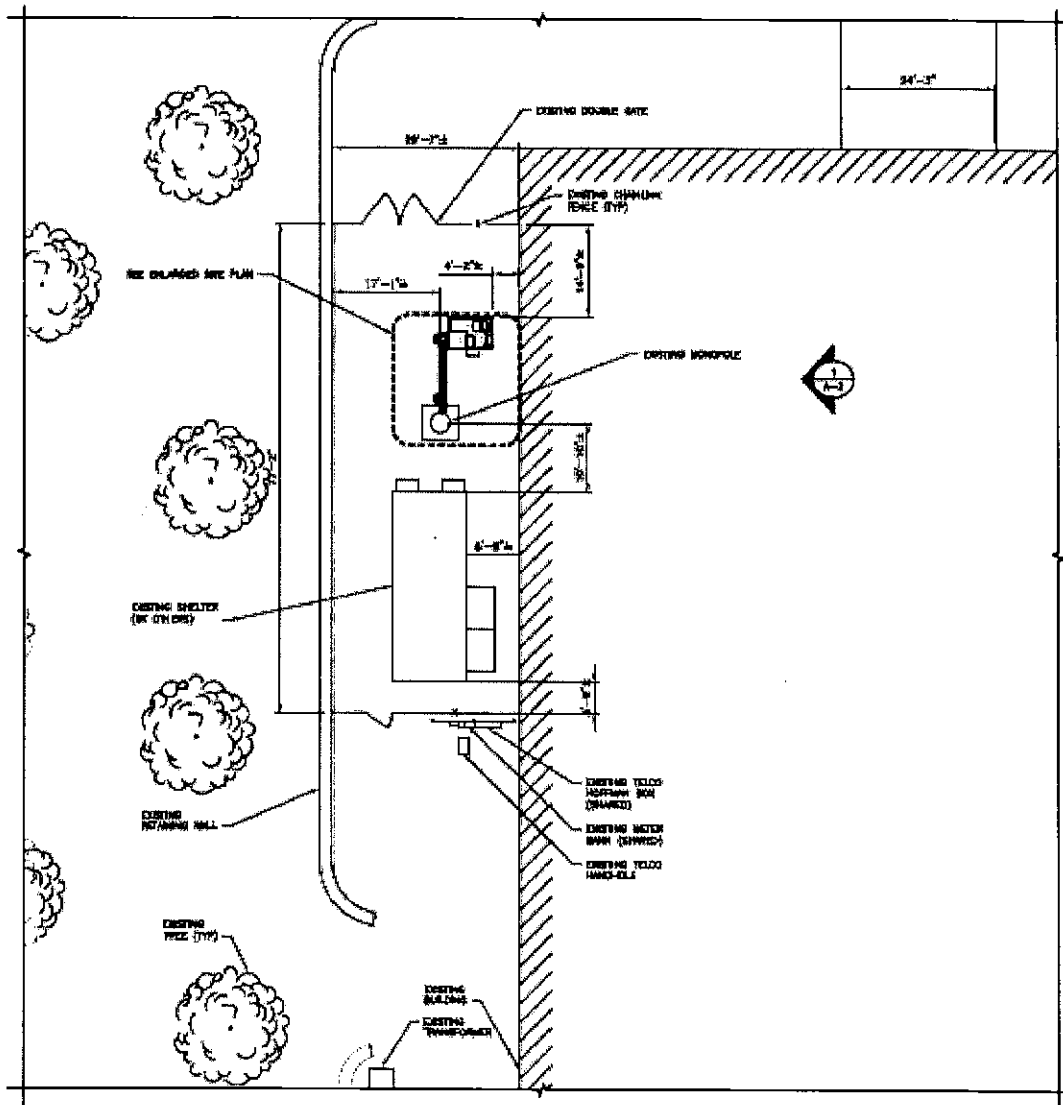
- relevant technical data on the proposed DISH antenna operations at the site, as well as on the existing Verizon Wireless antenna operations;
- a description of the applicable FCC mathematical model for calculating RF levels, and application of the relevant technical data to that model;
- analysis of the results of the calculations against the FCC MPE limit, and the compliance conclusion for the site.

In addition, four Appendices are included. Appendix A provides information on the documents used to prepare the analysis. Appendix B provides background on the FCC MPE limit. Appendix C details the proposed mitigation to satisfy the FCC requirements and associated guidelines on RF compliance. Appendix D provides a summary of the qualifications of the expert certifying FCC compliance for this site.

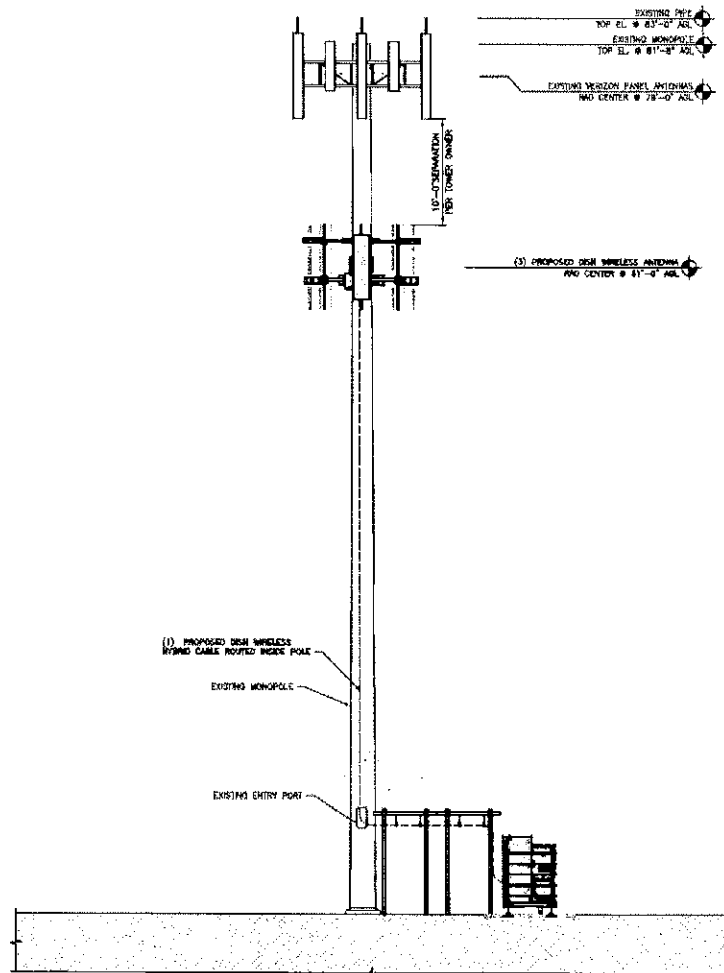
ANTENNA AND TRANSMISSION DATA

The plan and elevation views that follow, extracted from the site drawings, illustrate the mounting positions of the DISH antennas at the site.

Plan View:



Elevation View:



The table that follows summarizes the relevant data for the proposed DISH antenna operations. Note that the "Z" height references the centerline of the antenna.

Ant. ID	Carrier	Antenna Manufacturer	Antenna Model	Type	Req (MHz)	Ant. Dim. (ft)	Total Inpwr Power (watts)	Total ERP (watts)	Z AGL (ft)	Ant. Gain (dBS)	E/M	Azimuth	EDT	MDT
1	DISH	JMA Wireless	MX08FRO665-21	Panel	600	6	120	1637	61.0	11.46	68	0	2	0
1	DISH	JMA Wireless	MX08FRO665-21	Panel	2000	6	160	6011	61.0	16.16	62	0	2	0
1	DISH	JMA Wireless	MX08FRO665-21	Panel	2100	6	160	7567	61.0	16.66	64	0	2	0
2	DISH	JMA Wireless	MX08FRO665-21	Panel	600	6	120	1637	61.0	11.46	68	140	2	0
2	DISH	JMA Wireless	MX08FRO665-21	Panel	2000	6	160	6011	61.0	16.16	62	140	2	0
2	DISH	JMA Wireless	MX08FRO665-21	Panel	2100	6	160	7567	61.0	16.66	64	140	2	0
3	DISH	JMA Wireless	MX08FRO665-21	Panel	600	6	120	1637	61.0	11.46	68	250	2	0
3	DISH	JMA Wireless	MX08FRO665-21	Panel	2000	6	160	6011	61.0	16.16	62	250	2	0
3	DISH	JMA Wireless	MX08FRO665-21	Panel	2100	6	160	7567	61.0	16.66	64	250	2	0

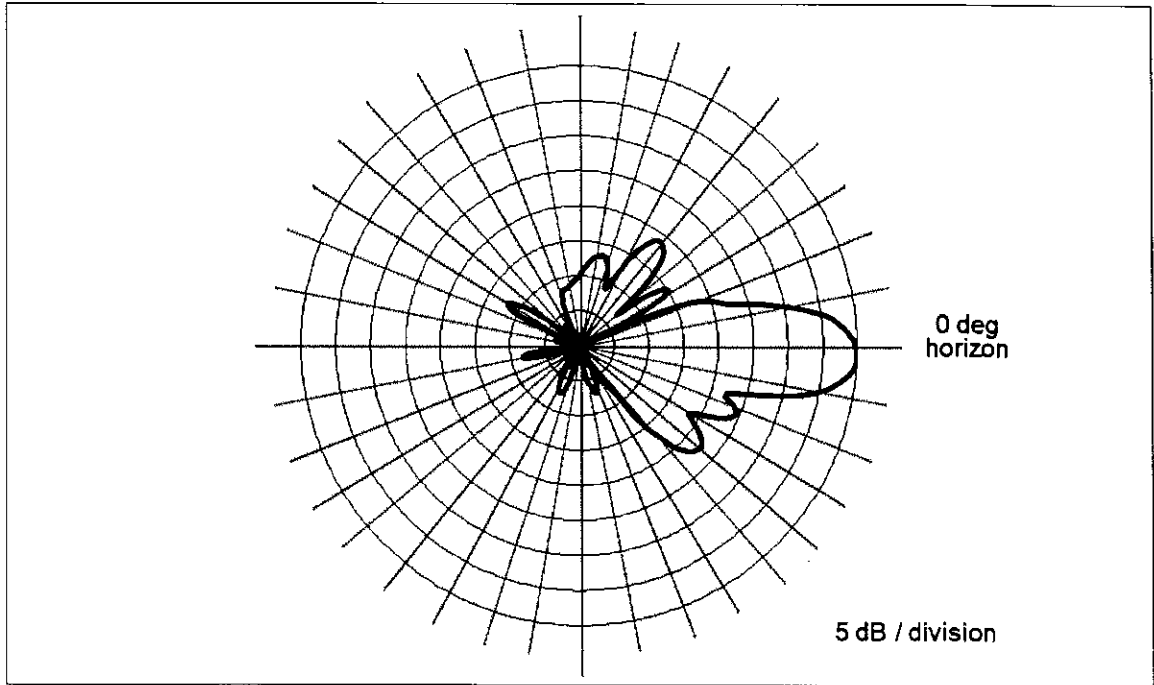
The area below the antennas, at street level, is of interest in terms of potential “uncontrolled” exposure of the general public, so the antenna’s vertical-plane emission characteristic is used in the calculations, as it is a key determinant of the relative amount of RF emissions in the “downward” direction.

By way of illustration, Figure 1 that follows shows the vertical-plane radiation pattern of the proposed antenna model in the 600 MHz frequency band. In this type of antenna radiation pattern diagram, the antenna is effectively pointed at the three o’clock position (the horizon) and the relative strength of the pattern at different angles is described using decibel units.

Note that the use of a decibel scale to describe the relative pattern at different angles actually serves to significantly understate the actual focusing effects of the antenna. Where the antenna pattern reads 20 dB the relative RF energy emitted at the corresponding downward angle is 1/100th of the maximum that occurs in the main beam (at 0 degrees); at 30 dB, the energy is only 1/1000th of the maximum.

Finally, note that the automatic pattern-scaling feature of our internal software may skew side-by-side visual comparisons of different antenna models, or even different parties’ depictions of the same antenna model.

Figure 1. JMA Wireless MX08FRO665-21-- 600 MHz Vertical-plane Pattern



As noted at the outset, there is an existing wireless antenna operation by Verizon Wireless to include in the compliance assessment and we will conservatively assume operation with maximum channel capacity and at maximum transmitter power per channel to be used in each of its FCC-licensed frequency bands.

The table that follows summarizes the relevant data for the collocated antenna operations.

Carrier	Antenna Manufacturer	Antenna Model	Type	Freq (MHz)	Total ERP (watts)	Ant. Gain (dBi)	Azimuth
Verizon Wireless	Generic	Generic	Panel	746	2400	11.76	N/A
Verizon Wireless	Generic	Generic	Panel	869	5166	12.36	N/A
Verizon Wireless	Generic	Generic	Panel	1900	5372	15.26	N/A
Verizon Wireless	Generic	Generic	Panel	2100	5625	15.46	N/A

Compliance Analysis

FCC Office of Engineering and Technology Bulletin 65 (“OET Bulletin 65”) provides guidelines for mathematical models to calculate the RF levels at various points around transmitting antennas. Different models apply in different areas around antennas, with one model applying to street level around a site, and another applying at the same height as the antennas. We will address each area of interest in turn in the subsections that follow.

Street Level Analysis

At street-level around an antenna site (in what is called the “far field” of the antennas), the RF levels are directly proportional to the total antenna input power and the relative antenna gain in the downward direction of interest – and the levels are otherwise inversely proportional to the square of the straight-line distance to the antenna.

Conservative calculations also assume the potential RF exposure is enhanced by reflection of the RF energy from the intervening ground. Our calculations will assume a 100% “perfect”, mirror-like reflection, which is the absolute worst-case scenario.

The formula for street-level compliance assessment for any given wireless antenna operation is as follows:

$$\text{MPE\%} = (100 * \text{Chans} * \text{TxPower} * 10^{(\text{Gmax}-\text{Vdisc}/10)} * 4) / (\text{MPE} * 4\pi * \text{R}^2)$$

where

MPE%	=	RF level, expressed as a percentage of the MPE limit applicable to continuous exposure of the general public
100	=	factor to convert the raw result to a percentage
Chans	=	maximum number of RF channels per sector
TxPower	=	maximum transmitter power per channel, in milliwatts

- 10 ^(G_{max}-V_{disc}/10) = numeric equivalent of the relative antenna gain in the downward direction of interest; data on the antenna vertical-plane pattern is taken from manufacturer specifications
- 4 = factor to account for a 100-percent-efficient energy reflection from the ground, and the squared relationship between RF field strength and power density ($2^2 = 4$)
- MPE = FCC general population MPE limit
- R = straight-line distance from the RF source to the point of interest, centimeters

The MPE% calculations are performed out to a distance of 500 feet from the facility to points 6.5 feet (approximately two meters, the FCC-recommended standing height) off the ground, as illustrated in Figure 2, below.

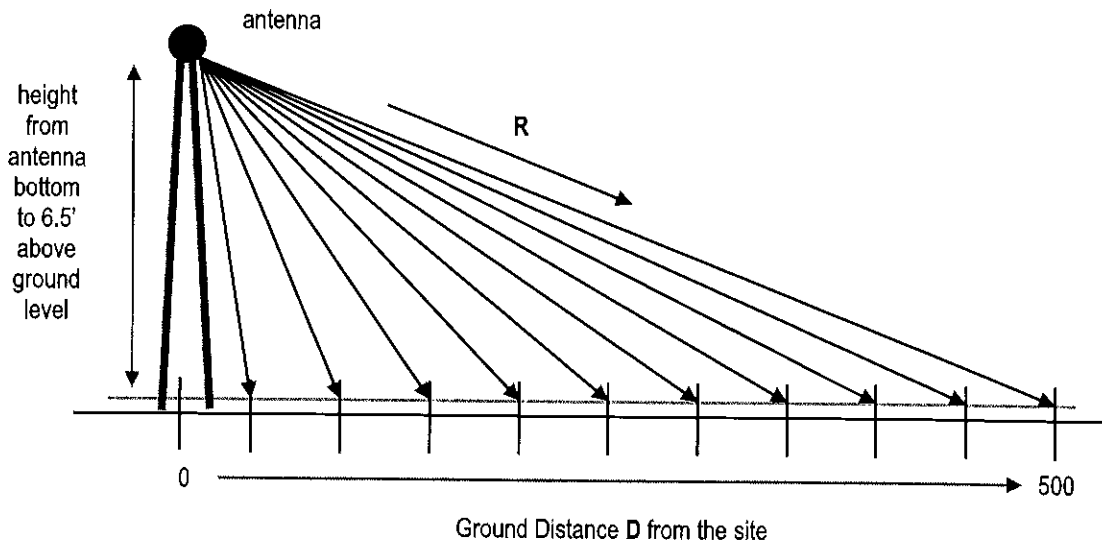


Figure 2. Street-level MPE% Calculation Geometry

It is popularly understood that the farther away one is from an antenna, the lower the RF level – which is generally but not universally correct. The results of MPE% calculations fairly close to the site will reflect the variations in the vertical-plane antenna pattern as well as the variation in straight-line distance to the antenna.

Therefore, RF levels may actually increase slightly with increasing distance within the range of zero to 500 feet from the site. As the distance approaches 500 feet and beyond, though, the antenna pattern factor becomes less significant, the RF levels become primarily distance-controlled and, as a result, the RF levels generally decrease with increasing distance. In any case, the RF levels more than 500 feet from a wireless antenna site are well understood to be sufficiently low to be comfortably in compliance.

According to the FCC, when directional antennas (such as panels) are used, compliance assessments are based on the RF effect of a single (facing) antenna sector, as the effects of directional antennas pointed away from the point(s) of interest are considered insignificant. If the different parameters apply in the different sectors, compliance is based on the worst-case parameters.

Street level FCC compliance for a collocated antenna site is assessed in the following manner. At each distance point along the ground, an MPE% calculation is made for each antenna operation (including each frequency band), and the sum of the individual MPE% contributions at each point is compared to 100 percent, the normalized reference for compliance with the MPE limit. We refer to the sum of the individual MPE% contributions as "total MPE%", and any calculated total MPE% result exceeding 100 percent is, by definition, higher than the FCC limit and represents non-compliance and a need to mitigate the potential exposure. If all results are consistently below 100 percent, on the other hand, that set of results serves as a clear and sufficient demonstration of compliance with the MPE limit.

Note that the following conservative methodology and assumptions are incorporated into the MPE% calculations on a general basis:

1. The antennas are assumed to be operating continuously at maximum power and maximum channel capacity.
2. The power-attenuation effects of shadowing or other obstructions to the line-of-sight path from the antenna to the point of interest are ignored.
3. The calculations intentionally minimize the distance factor (R) by assuming a 6'6" human and performing the calculations from the bottom (rather than

- the centerline) of each operator's lowest-mounted antenna, as applicable.
4. The calculations also conservatively take into account, when applicable, the different technical characteristics and related RF effects of the use of multiple antennas for transmission in the same frequency band.
 5. The RF exposure at ground level is assumed to be 100-percent enhanced (increased) via a "perfect" field reflection from the intervening ground.

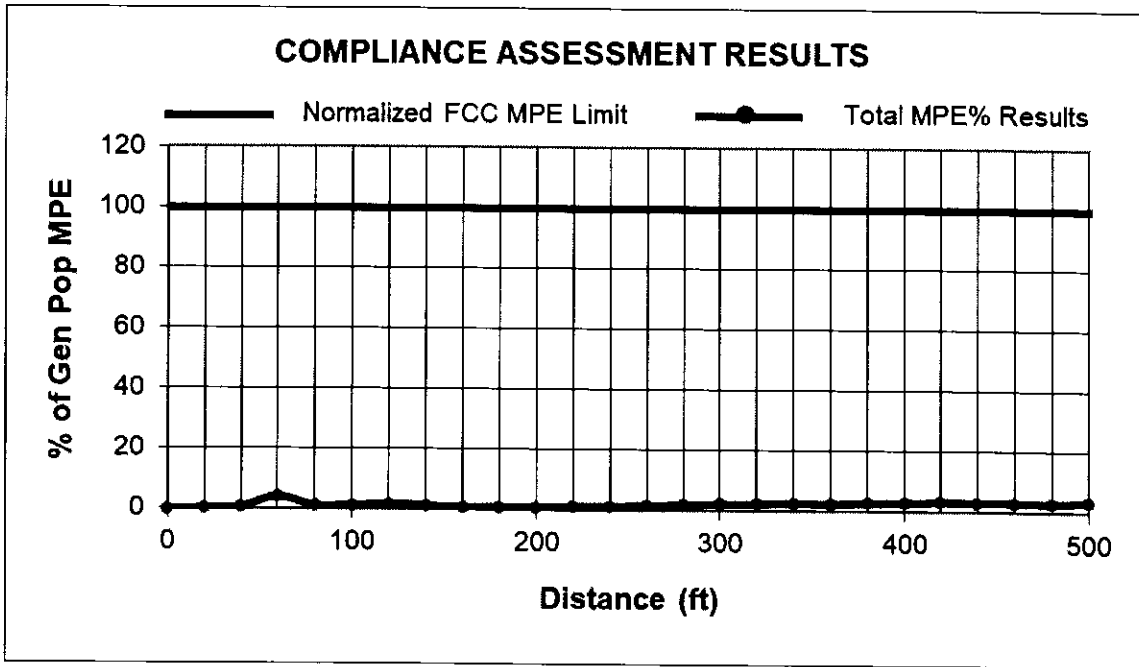
The net result of these assumptions is to intentionally and significantly overstate the calculated RF levels relative to the levels that will actually result from the antenna operations – and the purpose of this conservatism is to allow very "safe-side" conclusions about compliance.

The table that follows provides the results of the MPE% calculations for each antenna operation, with the overall worst-case calculated result highlighted in bold in the last column. Note that the transmission parameters for each DISH antenna sector are identical, and the calculations reflect the worst-case result for any/all sectors.

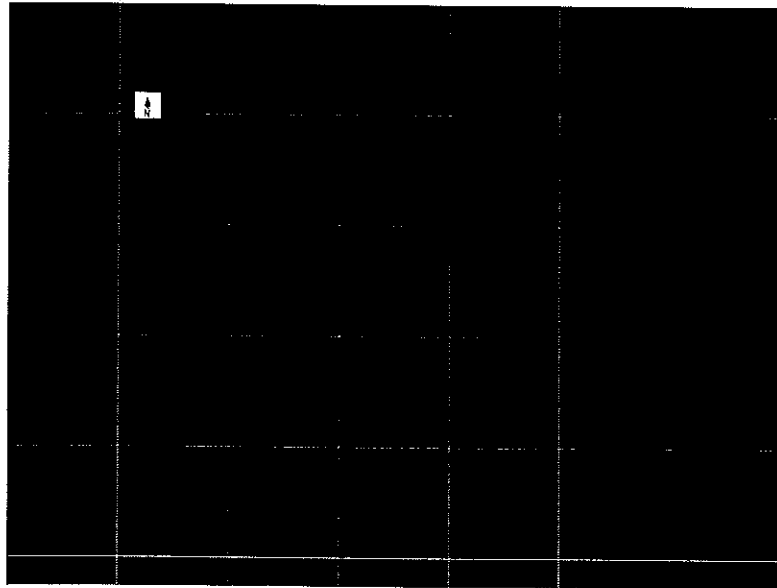
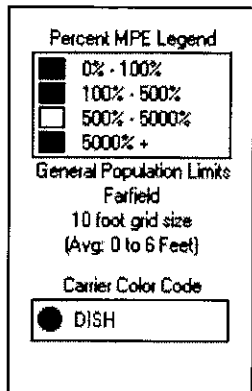
Ground Distance (ft)	DISH 600 MHz MPE%	DISH 2000 MHz MPE%	DISH 2100 MHz MPE%	Verizon Wireless MPE%	Total MPE%
0	0.0054	0.0070	0.0001	0.0552	0.0677
20	0.0354	0.0881	0.0507	0.1370	0.3112
40	0.0841	0.0270	0.0980	0.4500	0.6591
60	0.6417	1.1060	1.9220	0.3024	3.9721
80	0.1724	0.0553	0.0505	0.9087	1.1869
100	0.3171	0.2331	0.0370	0.7233	1.3105
120	0.3561	0.1067	0.1042	1.1344	1.7014
140	0.1932	0.1594	0.1669	0.7971	1.3166
160	0.1707	0.1044	0.0644	0.3385	0.6780
180	0.3704	0.1758	0.2114	0.0976	0.8552
200	0.4937	0.1445	0.2041	0.0667	0.9090
220	0.6388	0.0578	0.1027	0.2716	1.0709
240	0.7824	0.0030	0.0141	0.4144	1.2139
260	0.9479	0.0136	0.0070	0.5840	1.5525
280	1.0830	0.0372	0.0399	0.7641	1.9242
300	1.1927	0.0192	0.0297	0.9646	2.2062
320	1.0520	0.0169	0.0262	1.1623	2.2574
340	1.1235	0.0048	0.0002	1.3685	2.4970
360	1.0046	0.0042	0.0002	1.2261	2.2351
380	1.0615	0.1077	0.0917	1.4010	2.6619
400	0.9597	0.0974	0.0829	1.5518	2.6918
420	1.0010	0.3862	0.3952	1.4114	3.1938
440	0.9132	0.3523	0.3606	1.2892	2.9153
460	0.8365	0.3227	0.3303	1.4604	2.9499
480	0.7690	0.2967	0.3036	1.3437	2.7130
500	0.7778	0.6416	0.7035	1.2404	3.3633

As indicated, the maximum calculated overall RF level is 3.9721 percent of the FCC MPE limit – well below the 100-percent reference for compliance.

A graph of the overall calculation results, provided on the next page, perhaps provides a clearer *visual* illustration of the relative compliance of the calculated RF levels. The line representing the overall calculation results shows an obviously clear, consistent margin to the FCC MPE limit.



The graphic output for the areas at street level surrounding the site is below.

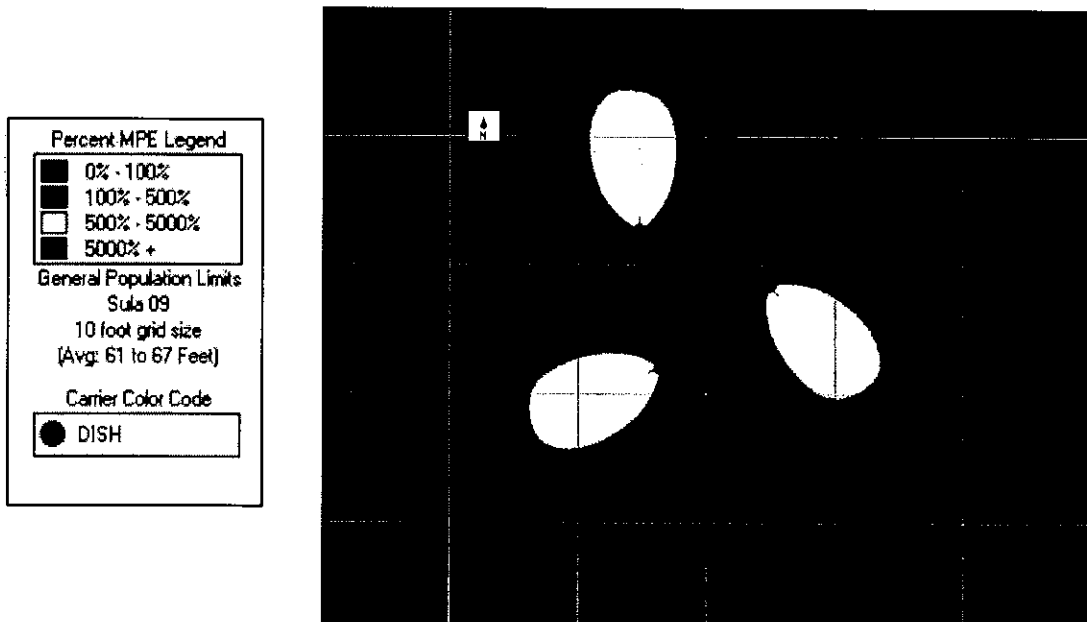


Near-field Analysis

The compliance analysis for the same height as the antennas is performed using the RoofMaster program by Waterford Consultants.

RF levels in the near field of an antenna depend on the power input to the antenna, the antenna's length and horizontal beamwidth, the mounting height of the antenna, and one's position and distance from the antenna. RF levels in front of a directional antenna are higher than they are to the sides or rear, and in any given horizontal direction are inversely proportional to the straight-line distance to the antenna.

The RoofMaster graphic outputs for the same height as the DISH antennas are reproduced on the next page.



***RoofMaster – Same Height as the Antennas –
Alpha / Beta / Gamma sectors***

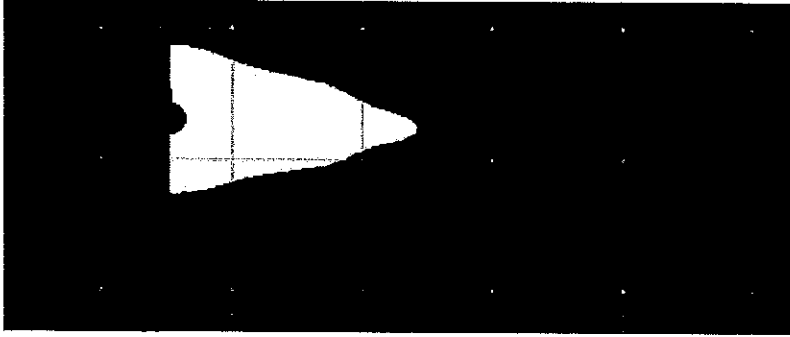
Percent MPE Legend

■	0% - 100%
■	100% - 500%
■	500% - 5000%
■	5000% +

General Population Limits
Sula D9 Vertical
10 foot grid size
Mid Zone Avg

Carrier Color Code

●	DISH
---	------



**RoofMaster – Same Height as the Antennas –
Alpha / Beta / Gamma sectors**

Compliance Conclusion

According to the FCC, the MPE limit has been constructed in such a manner that continuous human exposure to RF fields up to and including 100 percent of the MPE limit is acceptable and safe.

The conservative analysis in this case shows that the maximum calculated RF level from the combination of proposed and existing antenna operations at street level around the site is 3.9721 percent of the FCC general population MPE limit. At the same height as the antennas, the analysis shows that the calculated RF levels potentially exceed the FCC MPE limit. Per DISH guidelines, and consistent with FCC guidance on compliance, it is recommended that three Caution signs and NOC Information signs be installed at the base of the monopole.

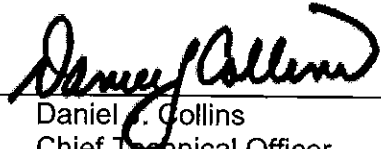
The results of the calculations, along with the described RF mitigation, combine to satisfy the FCC's RF compliance requirements and associated guidelines on compliance.

Moreover, because of the extremely conservative calculation methodology and operational assumptions we applied in the analysis, RF levels actually caused by the antennas will be significantly lower than the calculation results here indicate.

CERTIFICATION

It is the policy of Pinnacle Telecom Group that all FCC RF compliance assessments are reviewed, approved, and signed by the firm's Chief Technical Officer who certifies as follows:

1. I have read and fully understand the FCC regulations concerning RF safety and the control of human exposure to RF fields (47 CFR 1.1301 *et seq*).
2. To the best of my knowledge, the statements and information disclosed in this report are true, complete and accurate.
3. The analysis of site RF compliance provided herein is consistent with the applicable FCC regulations, additional guidelines issued by the FCC, and industry practice.
4. The results of the analysis indicate that the subject antenna operations will be in compliance with the FCC regulations concerning the control of potential human exposure to the RF emissions from antennas.



Daniel J. Collins
Chief Technical Officer
Pinnacle Telecom Group, LLC

8/29/22

Date

Appendix A. DOCUMENTS Used TO PREPARE THE ANALYSIS

RFDS: NJJER01153A_RFDS_20220825

CD: NJJER01153A_PCDs_20220825

Appendix B. Background on the FCC MPE Limit

As directed by the Telecommunications Act of 1996, the FCC has established limits for maximum continuous human exposure to RF fields.

The FCC maximum permissible exposure (MPE) limits represent the consensus of federal agencies and independent experts responsible for RF safety matters. Those agencies include the National Council on Radiation Protection and Measurements (NCRP), the Occupational Safety and Health Administration (OSHA), the National Institute for Occupational Safety and Health (NIOSH), the American National Standards Institute (ANSI), the Environmental Protection Agency (EPA), and the Food and Drug Administration (FDA). In formulating its guidelines, the FCC also considered input from the public and technical community – notably the Institute of Electrical and Electronics Engineers (IEEE).

The FCC's RF exposure guidelines are incorporated in Section 1.301 *et seq* of its Rules and Regulations (47 CFR 1.1301-1.1310). Those guidelines specify MPE limits for both occupational and general population exposure.

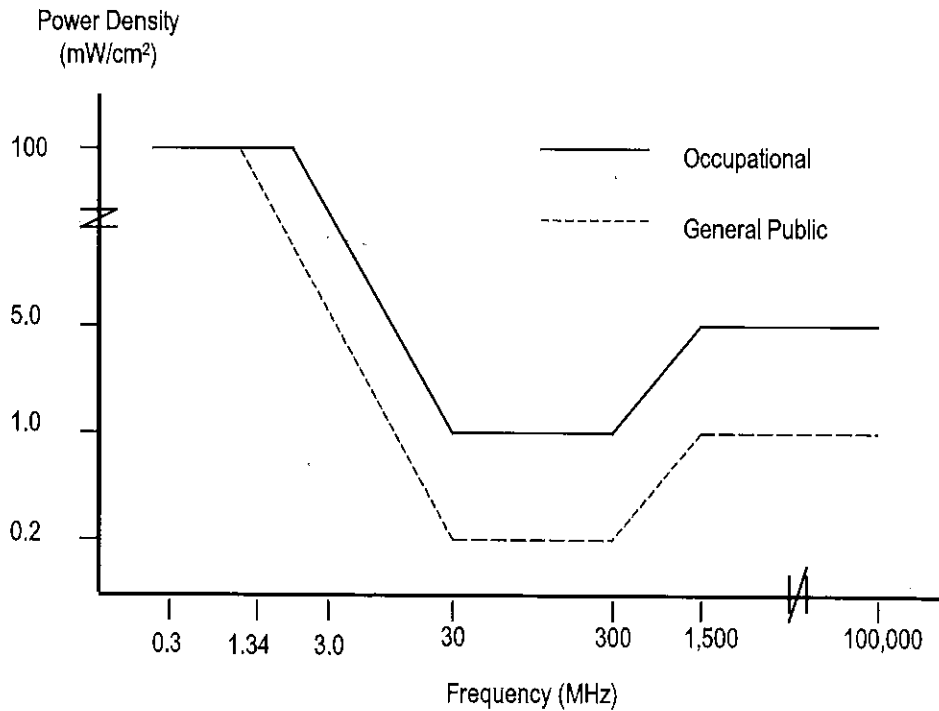
The specified continuous exposure MPE limits are based on known variation of human body susceptibility in different frequency ranges, and a Specific Absorption Rate (SAR) of 4 watts per kilogram, which is universally considered to accurately represent human capacity to dissipate incident RF energy (in the form of heat). The occupational MPE guidelines incorporate a safety factor of 10 or greater with respect to RF levels known to represent a health hazard, and an additional safety factor of five is applied to the MPE limits for general population exposure. Thus, the general population MPE limit has a built-in safety factor of more than 50. The limits were constructed to appropriately protect humans of both sexes and all ages and sizes and under all conditions – and continuous exposure at levels equal to or below the applicable MPE limits is considered to result in no adverse health effects or even health risk.

The reason for *two* tiers of MPE limits is based on an understanding and assumption that members of the general public are unlikely to have had appropriate RF safety training and may not be aware of the exposures they receive; occupational exposure in controlled environments, on the other hand, is assumed to involve individuals who have had such training, are aware of the exposures, and know how to maintain a safe personal work environment.

The FCC's RF exposure limits are expressed in two equivalent forms, using alternative units of field strength (expressed in volts per meter, or V/m), and power density (expressed in milliwatts per square centimeter, or mW/cm²). The table on the next page lists the FCC limits for both occupational and general population exposures, using the mW/cm² reference, for the different radio frequency ranges.

Frequency Range (F) (MHz)	Occupational Exposure (mW/cm ²)	General Public Exposure (mW/cm ²)
0.3 - 1.34	100	100
1.34 - 3.0	100	$180 / F^2$
3.0 - 30	$900 / F^2$	$180 / F^2$
30 - 300	1.0	0.2
300 - 1,500	$F / 300$	$F / 1500$
1,500 - 100,000	5.0	1.0

The diagram below provides a graphical illustration of both the FCC's occupational and general population MPE limits.



Because the FCC's RF exposure limits are frequency-shaped, the exact MPE limits applicable to the instant situation depend on the frequency range used by the systems of interest.

The most appropriate method of determining RF compliance is to calculate the RF power density attributable to a particular system and compare that to the MPE limit applicable to the operating frequency in question. The result is usually expressed as a percentage of the MPE limit.

For potential exposure from multiple systems, the respective percentages of the MPE limits are added, and the total percentage compared to 100 (percent of the limit). If the result is less than 100, the total exposure is in compliance; if it is more than 100, exposure mitigation measures are necessary to achieve compliance.

Note that the FCC "categorically excludes" all "non-building-mounted" wireless antenna operations whose mounting heights are more than 10 meters (32.8 feet) from the routine requirement to demonstrate compliance with the MPE limit, because such operations "are deemed, individually and cumulatively, to have no significant effect on the human environment". The categorical exclusion also applies to *all* point-to-point antenna operations, regardless of the type of structure they're mounted on. Note that the FCC considers any facility qualifying for the categorical exclusion to be automatically in compliance.

In addition, FCC Rules and Regulations Section 1.1307(b)(3) describes a provision known in the industry as "the 5% rule". It describes that when a specific location – like a spot on a rooftop – is subject to an overall exposure level exceeding the applicable MPE limit, operators with antennas whose MPE% contributions at the point of interest are less than 5% are exempted from the obligation otherwise shared by all operators to bring the site into compliance, and those antennas are automatically deemed by the FCC to satisfy the rooftop compliance requirement.

FCC References on RF Compliance

47 CFR, FCC Rules and Regulations, Part 1 (Practice and Procedure), Section 1.1310 (Radiofrequency radiation exposure limits).

FCC Second Memorandum Opinion and Order and Notice of Proposed Rulemaking (FCC 97-303), *In the Matter of Procedures for Reviewing Requests for Relief From State and Local Regulations Pursuant to Section 332(c)(7)(B)(v) of the Communications Act of 1934 (WT Docket 97-192), Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation (ET Docket 93-62), and Petition for Rulemaking of the Cellular Telecommunications Industry Association Concerning Amendment of the Commission's Rules to Preempt State and Local Regulation of Commercial Mobile Radio Service Transmitting Facilities*, released August 25, 1997.

FCC First Memorandum Opinion and Order, ET Docket 93-62, *In the Matter of Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation*, released December 24, 1996.







FCC Report and Order, ET Docket 93-62, *In the Matter of Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation*, released August 1, 1996.

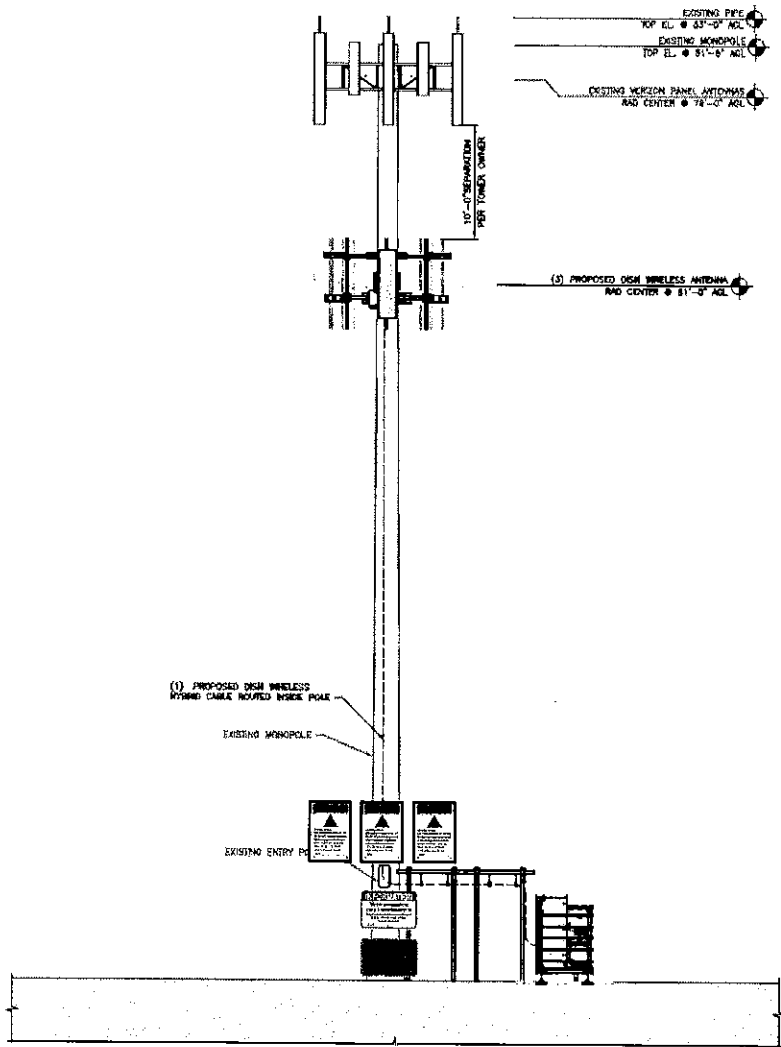
FCC Report and Order, Notice of Proposed Rulemaking, Memorandum Opinion and Order (FCC 19-126), *Proposed Changes in the Commission's Rules Regarding Human Exposure to Radiofrequency Electromagnetic Fields; Reassessment of Federal Communications Commission Radiofrequency Exposure Limits and Policies*, released December 4, 2019.

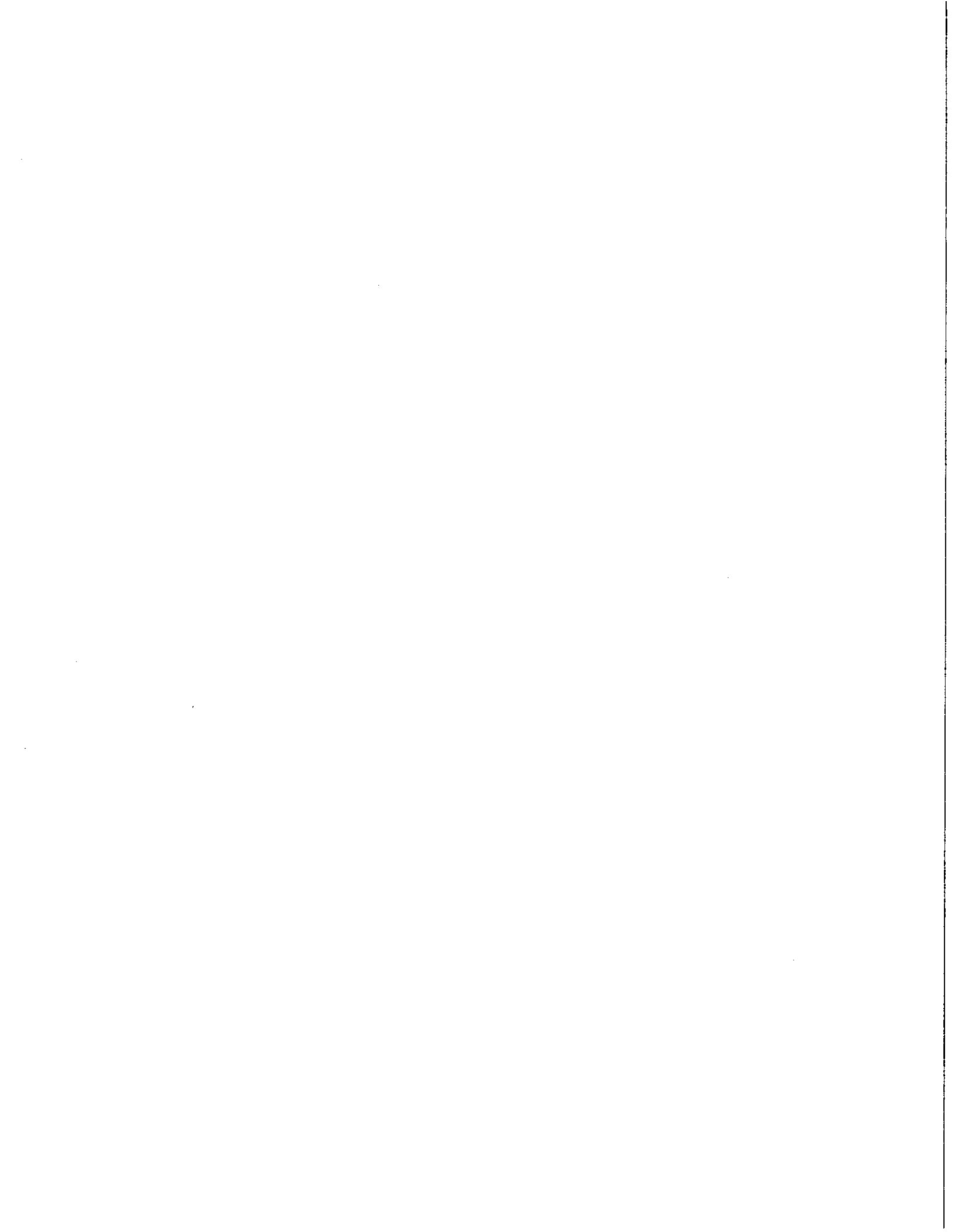
FCC Office of Engineering and Technology (OET) Bulletin 65, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields", Edition 97-01, August 1997.

FCC Office of Engineering and Technology (OET) Bulletin 56, "Questions and Answers About Biological Effects and Potential Hazards of RF Radiation", edition 4, August 1999.

Appendix C. Proposed Signage

Final Compliance Configuration							
	GUIDELINES	NOTICE	CAUTION	WARNING	NOC INFO	BARRIER/MARKER	
Access Point(s)	1	0	0	0	1	0	
Alpha	0	0	1	0	0	0	
Beta	0	0	1	0	0	0	
Gamma	0	0	1	0	0	0	





Appendix D. SUMMARY of EXPERT QUALIFICATIONS

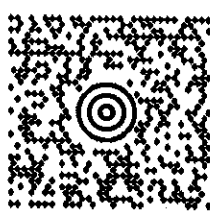
Daniel J. Collins, Chief Technical Officer, Pinnacle Telecom Group, LLC

<p>Synopsis:</p>	<ul style="list-style-type: none"> • 40+ years of experience in all aspects of wireless system engineering, related regulation, and RF exposure • Has performed or led RF exposure compliance assessments on more than 20,000 antenna sites since the latest FCC regulations went into effect in 1997 • Has provided testimony as an RF compliance expert more than 1,500 times since 1997 • Have been accepted as an FCC compliance expert in New York, New Jersey, Connecticut, Pennsylvania and more than 40 other states, as well as by the FCC
<p>Education:</p>	<ul style="list-style-type: none"> • B.E.E., City College of New York (Sch. Of Eng.), 1971 • M.B.A., 1982, Fairleigh Dickinson University, 1982 • Bronx High School of Science, 1966
<p>Current Responsibilities:</p>	<ul style="list-style-type: none"> • Leads all PTG staff work involving RF safety and FCC compliance, microwave and satellite system engineering, and consulting on wireless technology and regulation
<p>Prior Experience:</p>	<ul style="list-style-type: none"> • Edwards & Kelcey, VP – RF Engineering and Chief Information Technology Officer, 1996-99 • Bellcore (a Bell Labs offshoot after AT&T's 1984 divestiture), Executive Director – Regulation and Public Policy, 1983-96 • AT&T (Corp. HQ), Division Manager – RF Engineering, and Director – Radio Spectrum Management, 1977-83 • AT&T Long Lines, Group Supervisor – Microwave Radio System Design, 1972-77
<p>Specific RF Safety / Compliance Experience:</p>	<ul style="list-style-type: none"> • Involved in RF exposure matters since 1972 • Have had lead corporate responsibility for RF safety and compliance at AT&T, Bellcore, Edwards & Kelcey, and PTG • While at AT&T, helped develop the mathematical models for calculating RF exposure levels • Have been relied on for compliance by all major wireless carriers, as well as by the federal government, several state and local governments, equipment manufacturers, system integrators, and other consulting / engineering firms
<p>Other Background:</p>	<ul style="list-style-type: none"> • Author, <i>Microwave System Engineering</i> (AT&T, 1974) • Co-author and executive editor, <i>A Guide to New Technologies and Services</i> (Bellcore, 1993) • National Spectrum Management Association (NSMA) – former three-term President and Chairman of the Board of Directors; was founding member, twice-elected Vice President, long-time member of the Board, and was named an NSMA Fellow in 1991 • Have published more than 35 articles in industry magazines

Exhibit G
Mailing Receipts

FROM:
LEV MAYZLER
(203) 488-0712
CONSTRUCTION SERVICES OF BRANF
63-3 NORTH BRANFORD ROAD
BRANFORD CT 06405-2848

LTR 1 OF 1



CT 066 9-07



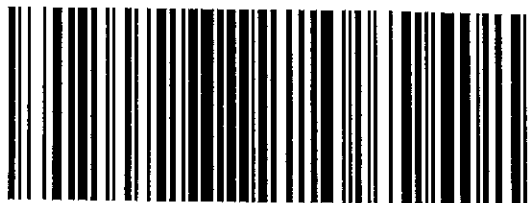
SHIP TO:

**MAKE-A-WISH FOUNDATION
56 COMMERCE DR.
TRUMBULL CT 06611**

UPS 2ND DAY AIR

TRACKING #: 1Z E05 345 02 6276 4780

2



BILLING: P/P

WS 22.0.17 SHARP MX-3070 52.0A 12/2022

Fold here and place in label pouch

Proof of Delivery

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number

1ZE053450262764780

Service

UPS 2nd Day Air®

Shipped / Billed On

12/29/2022

Delivered On

12/28/2022 10:25 A.M.

Delivered To

56 COMMERCE DR
TRUMBULL, CT, 06611, US

Received By

DIEHL

Left At

Receiver

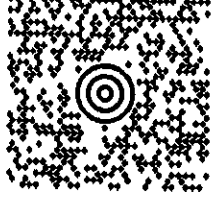
Please print for your records as photo and details are only available for a limited time.

Sincerely,

UPS

Tracking results provided by UPS: 12/30/2022 7:50 A.M. EST

FROM:
LEV MAYZLER
(203) 488-0712
CONSTRUCTION SERVICES OF BRANF
63-3 NORTH BRANFORD ROAD
BRANFORD CT 06405-2848



NJ 078 9-71



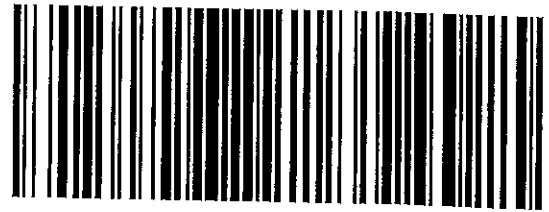
SHIP TO:

NETWORK REAL ESTATE
CELLCO/DBA VERIZON WIRELESS
MS 4AW100
ONE VERIZON WAY
BASKING RIDGE NJ 07920

UPS 2ND DAY AIR

TRACKING #: 1Z E05 345 02 6150 8979

2



BILLING: P/P

WS 22.0.17 SHARP MX-3070 62.0A 12/2022

Fold here and place in label pouch

Proof of Delivery

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number

1ZE053450261508979

Service

UPS 2nd Day Air®

Shipped / Billed On

12/29/2022

Delivered On

12/28/2022 9:48 A.M.

Delivered To

1 VERIZON WAY
BASKING RIDGE, NJ, 07920, US

Received By

PHU

UPS UPS UPS UPS UPS UPS UPS UPS UPS UPS UPS UPS UPS UPS UPS UPS
UPS UPS UPS UPS UPS UPS UPS UPS UPS UPS UPS UPS UPS UPS UPS UPS
UPS UPS UPS UPS UPS UPS UPS UPS UPS UPS UPS UPS UPS UPS UPS UPS
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Left At

Receiver

Please print for your records as photo and details are only available for a limited time.

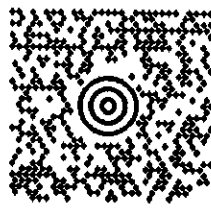
Sincerely,

UPS

Tracking results provided by UPS: 12/30/2022 7:51 A.M. EST

FROM:
LEV MAYZLER
(203) 488-0712
CONSTRUCTION SERVICES OF BRANF
63-3 NORTH BRANFORD ROAD
BRANFORD CT 06405-2848

LTR 1 OF 1



CT 066 9-07



SHIP TO:

**HON. VICKI A. TESSORO
2ND FL
5866 MAIN ST.,
TRUMBULL CT 06611**

UPS 2ND DAY AIR

TRACKING #: 1Z E05 345 02 6195 7752

2



BILLING: P/P

WS 22.0.17 SHARP MX-3070 62.0A 12/2022

Fold here and place in label pouch

Proof of Delivery

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number

1ZE053450261957752

Service

UPS 2nd Day Air®

Shipped / Billed On

12/29/2022

Delivered On

12/28/2022 9:59 A.M.

Delivered To

5866 MAIN ST
TRUMBULL, CT, 06611, US

Received By

LUKE

Left At

Front Desk

Please print for your records as photo and details are only available for a limited time.

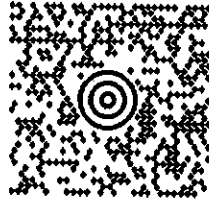
Sincerely,

UPS

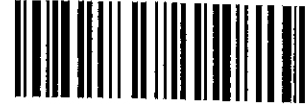
Tracking results provided by UPS: 12/30/2022 7:53 A.M. EST

FROM:
LEV MAYZLER
(203) 488-0712
CONSTRUCTION SERVICES OF BRANF
63-3 NORTH BRANFORD ROAD
BRANFORD CT 06405-2848

LTR TUF 1



CT 066 9-07



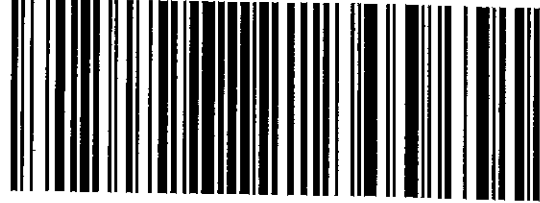
SHIP TO:

**ROB LIBRANDI
TOWN OF TRUMBULL
5866 MAIN ST.
TRUMBULL CT 06611-3113**

UPS 2ND DAY AIR

TRACKING #: 1Z E05 345 02 6196 7965

2



BILLING: P/P

WS 22.0.17 SHARP MX-3070 52,0A 12/2022

Fold here and place in label pouch

Proof of Delivery

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number

1ZE053450261967965

Service

UPS 2nd Day Air®

Shipped / Billed On

12/29/2022

Delivered On

12/28/2022 9:59 A.M.

Delivered To

5866 MAIN ST
TRUMBULL, CT, 06611, US

Received By

LUKE

Left At

Front Desk

Please print for your records as photo and details are only available for a limited time.

Sincerely,

UPS

Tracking results provided by UPS: 12/30/2022 7:52 A.M. EST