

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

December 22, 2023

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

RE: Notice of Exempt Modification to an existing watertank

located at 11 Filbert Road, Norwalk, Connecticut

Latitude: 41° 7' 6.84" / Longitude: -73° 23' 48.10"

Dear Ms. Bachman:

This letter and attachments are submitted on behalf of Dish Wireless, LLC ("Dish"). Dish plans to install antennas and related equipment to the site at the existing water tank facility located at 11 Filbert Road Road, Norwalk, Connecticut (See Original Facility Approval attached as Exhibit A) ("Facility"). The property and water tank are owned by The Town of Norwalk (See Norwalk 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 water tank at the ninety six foot (96') 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 November 9, 2023 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 Harry Rilling, Mayor of the City of Norwalk, Steven Kleppin, Planning and Zoning Director, and the property and water tank owner, First Norwalk Taxing District.

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 height of the water tank as the Dish antennas will be installed at a height of 114'.

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 6.6898%.

Water Tank

The Facility consists of a One hundred twenty seven foot six inch (127.6') water tank located at 11 Filbert Road, Norwalk, Connecticut. As indicated above, the property and water tank are owned by the First Norwalk Taxing District. The water tank currently supports Verizon at the one hundred fourteen foot (114'). The antenna locations are set forth on Sheet A-2 of the attached drawings in Exhibit C.

A. TECHNICAL FEASIBILTY

The existing water tank has been deemed structurally capable of supporting the proposed Dish loading. The structural and mount analyses are attached hereto as Exhibits D and E respectively.

B. LEGAL FEASIBILITY

C.G.S. Se. 16-50aa authorizes the Council to issue orders approving the shared use of existing facilities such as the above referenced water tank. 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 Norwalk to proceed with the proposed installation. Additionally, a Site Lease Agreement is attached as Exhibit G, granting Dish the authority from the water tank 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 114' level of the existing water tank would have an insignificant visual impact on the area surrounding the water tank. 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 FEASIBILTY

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

E. PUBLIC SAFETY CONCERNS

As set forth above, the water tank 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 water tank.

For the reasons set forth herein, the proposed shared use of the existing water tank at 11 Filbert Road, Norwalk, satisfies the criteria stated in C.G.S. sec. 16-50aa, and supports the general goal of preventing the unnecessary proliferation of water tank sites in Connecticut. Dish respectfully requests the Council issue an order approving the proposed shared use.

Respectfully submitted

Dish Wireless, LTC

By Theresa Ranciato-Viele, consultant

63-3 N. Branford Road Branford, CT 06405

Tranciato@Tectonicengineering.com

203-606-5127

cc: Norwalk Mayor, Harry Rilling 125 East St. Norwalk, CT 06856

Norwalk Planning Director, Steven Kelppin 125 East St. Room 129 Norwalk, CT 06856

First Norwalk Taxing District 3 Belden Ave. Norwalk, CT 06850

Exhibit A Original Facility Approval



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL,

136 Main Street, Suite 401 New Britain, Connecticut 06051-4225 Phone: 827-7682

Petition No. 305

Metro Mobile of Fairfield County, Inc.
Installation of cellular telecommunications
antennas and equipment building at a water tank
located in the Town of Norwalk, Connecticut.
Staff Report
May 6, 1993

Metro Mobile of Fairfield County, Inc. (Metro Mobile), is petitioning the Council under the regulations of State Agencies 16-50j-38 through 40 for a declaratory ruling that the installation of certain cellular telecommunications antennas on the sides of an existing water tank and construction of an equipment building adjacent to the base of the water tank will not have a substantial adverse environmental effect and, therefore, does not require a Certificate of environmental compatibility and public need from the Council. On April 30, 1993, Chairman Mortimer A. Gelston of the Connecticut Siting Council (Council), and Fred Cunliffe of the Council's staff reviewed this petition.

Metro Mobile proposes to install six panel antennas with reflectors, approximately three and one-half by one and one-half feet, around the sides of a water tank located at the end of Filbert Road in Norwalk, Connecticut. This existing water tank site is fenced, surrounded by vegetation, and is in a residential area. The existing water tank stands approximately 130 feet to which the antennas would be attached directly to the tank's support legs reaching an approximate total height of 119 feet above ground level Metro Mobile also proposes to construct a 500 square foot equipment building directly beneath the water tank. Exact dimensions would be governed by the confined space under the tower and final approval by the property owner. No clearing or landscaping would be necessary. Metro Mobile states that a building permit would be pursued following a Council ruling.

Metro Mobile contends that this project will have no effect on the ecology of the site, non-ionizing radio frequency will be below the DEP State standard, the proposed installation will not increase noise levels at the site boundary by six decibels or more, and the site boundaries will not be expanded by the project.

In conclusion, Metro Mobile requests that the Council issue a determination that the proposed project will not have a substantial adverse environmental effect and, therefore, does not require a Certificate from the Council. Staff is in agreement with the contentions of Metro Mobile and recommends approval of this petition.

Fred Cunliffe Siting Analyst

Exhibit B Property Card

11 FILBERT RD

Location 11 FILBERT RD

Mblu 5/4/199/0/

Acct# 16358

Owner FIRST TAXING DISTRICT

Assessment \$1,220,440

Appraisal \$1,743,470

PID 16358

Building Count 1

Current Value

Appraisal							
Valuation Year Improvements Land Total							
2023	\$532,260	\$532,260 \$1,211,210					
	Assessment		The state of the s				
Valuation Year	Improvements	Land	Total				
2023	\$372,590	\$847,850	\$1,220,440				

Owner of Record

Owner FIRST TAXING DISTRICT

Co-Owner (WATER DEPT - WATER TANK)

Address 3 BELDEN AVE

NORWALK, CT 06850-3303

Sale Price

Book & Page 532/361

Sale Date

04/01/1960

Ownership History

Ownership History						
Owner Sale Price Book & Page Sale Date						
FIRST TAXING DISTRICT	\$0	532/361	04/01/1960			

Building Information

Building 1 : Section 1

Year Built:

1993

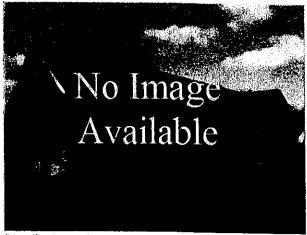
Living Area:

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Model:		Industrial	

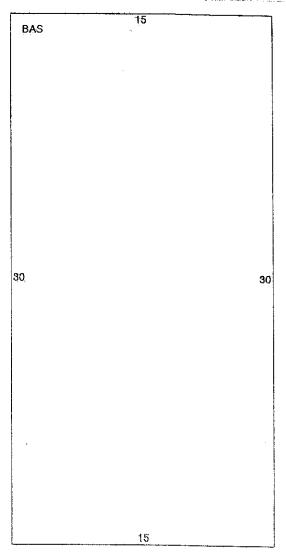
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Building Photo



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Building Layout



(ParcelSketch.ashx?pld=16358&bid=16358)

Building Sub-Areas (sq ft) <u>Legend</u>					
Code	Description	Gross Area	Living Area		
BAS	First Floor	450	450		
		450	450		

Extra Features

Extra Features Legend No Data for Extra Features

Land

Land Use

Use Code 924

Description Wtr Treatmnt
Zone B

Neighborhood C330

Land Line Valuation

 Size (Acres)
 1.06

 Assessed Value
 \$847,850

 Appraised Value
 \$1,211,210

Outbuildings

	Outbuildings <u>Legen</u> c						
Code	Description	Sub Code	Sub Description	Size	Value	Bldg#	
SHD1	Shed	СВ	CindBk/Frame	450,00 S,F.	\$3,940	1	
TNK3	Tank >10K			1000000,00 GALS	\$500,000	1	
FN6	Fence 6'			500,00 L.F.	\$4,550	1	

Valuation History

Appraisal							
Valuation Year Improvements Land Total							
2022	\$527,280	\$1,103,060	\$1,630,340				
2022	\$527,280	\$1,103,060	\$1,630,340				
2021	\$527,720	\$ 1,103, 0 60	\$1,630,780				
2020	\$527,720	\$1,103,060	\$1,630,780				
2019	\$527,720	\$1,103,060	\$1,630,780				
2018	\$527,720	\$1,103,060	\$1,630,780				
2017	\$399,800	\$770,040	\$1,169,840				

Assessment							
Valuation Year Improvements Land Total							
2022	\$369,100	\$772,140	\$1,141,240				
2022	\$369,100	\$772,140	\$1,141,240				
2021	\$369,410	\$772,140	\$1,141,550				
2020	\$369,410	\$772,140	\$1,141,550				
2019	\$369,410	\$772,140	\$1,141,550				
2018	\$369,410	\$772,140	\$1,141,550				
2017	\$279,870	\$539,030	\$818,900				

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Exhibit C Project Plans

wireless.

Dish Wireless L.L.C. SITE ID:

NJJER01152C

Dish Wireless L.L.C. SITE ADDRESS:

FIRST DIST WATER DEPT NORWALK, CT 06851 11 FILBERT ROAD

CONNECTICUT CODE COMPLIANCE

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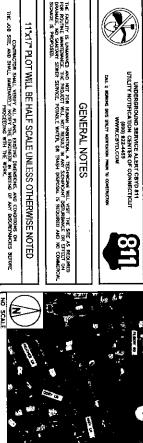
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SITE PHOTO

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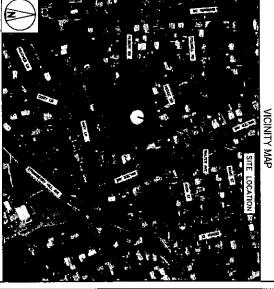
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SITE INFORMATION

PROJECT DIRECTORY

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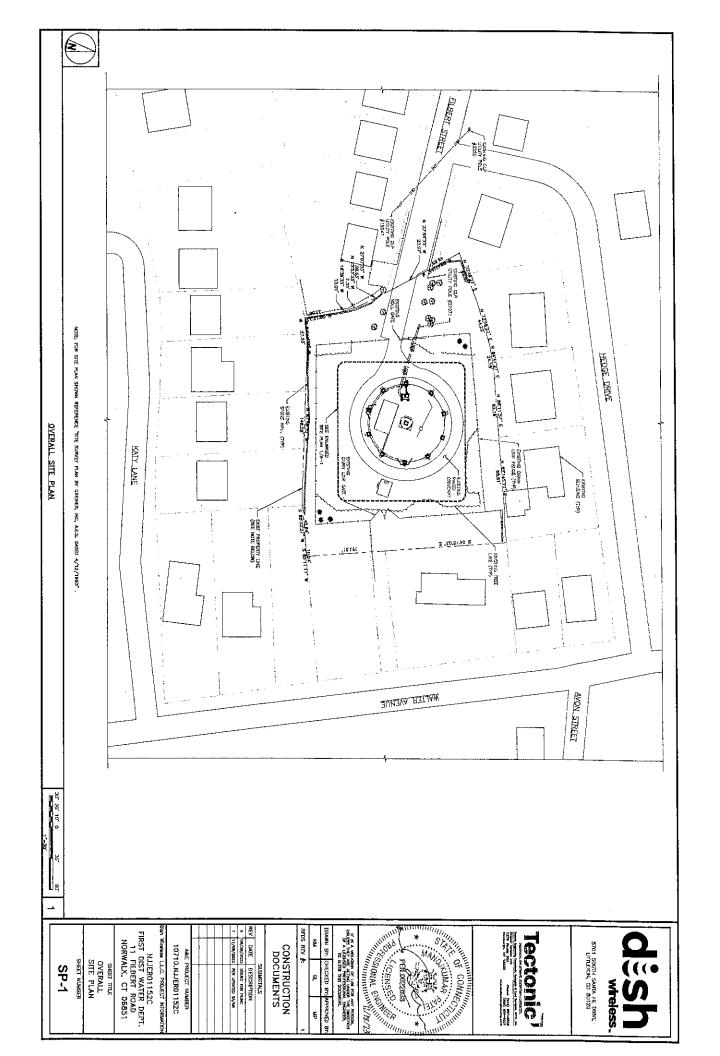
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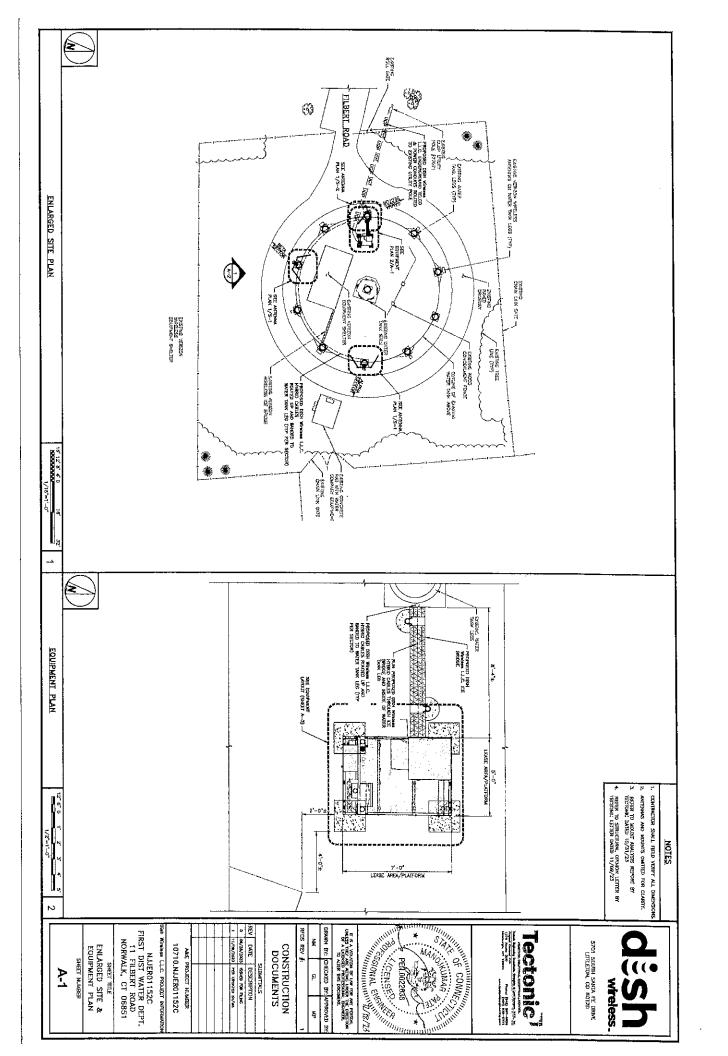
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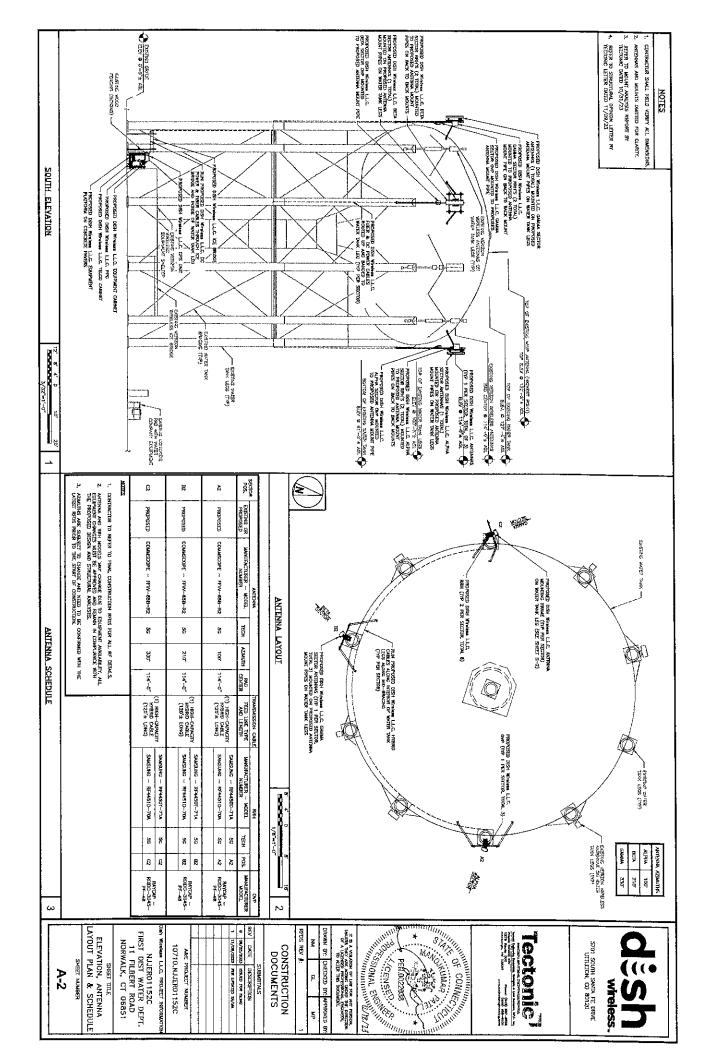
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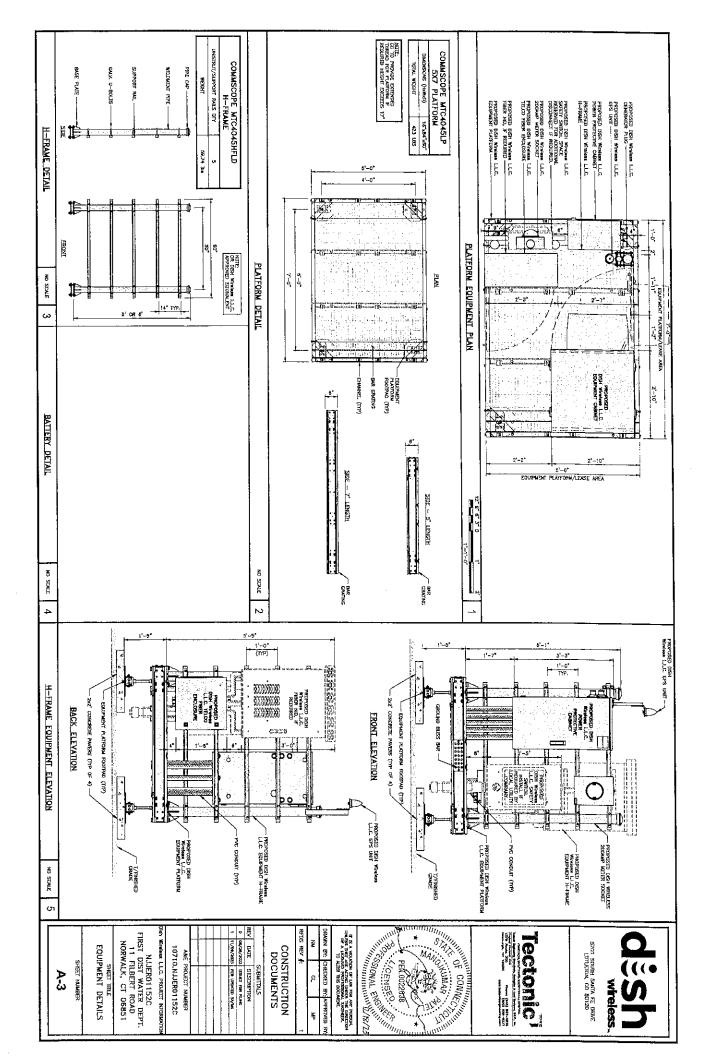
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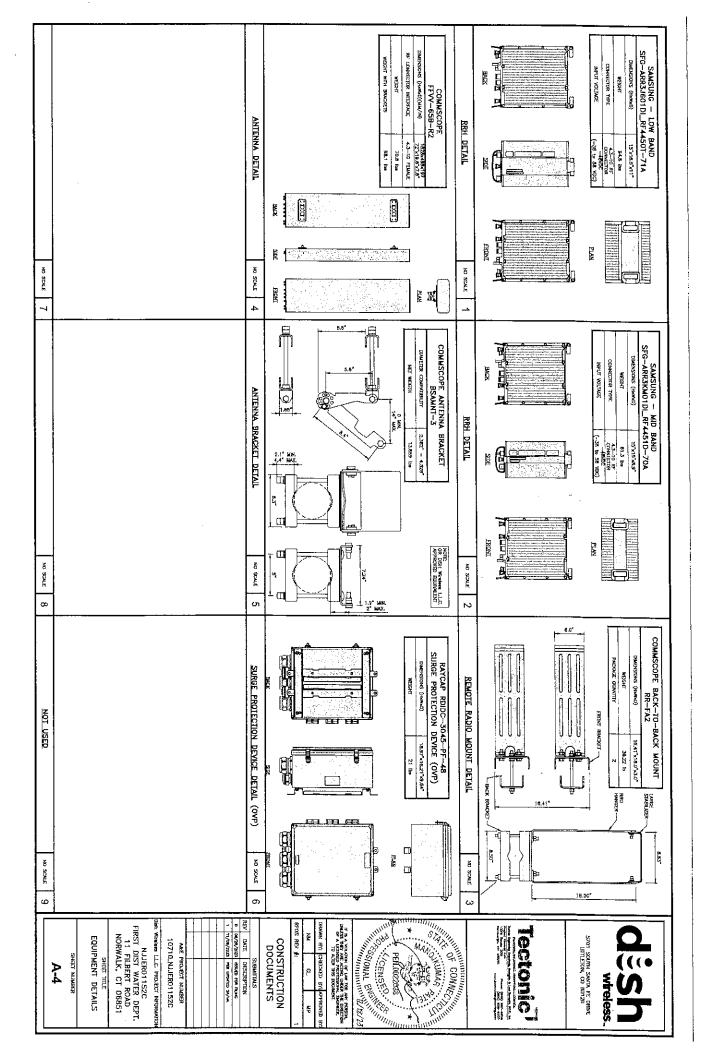
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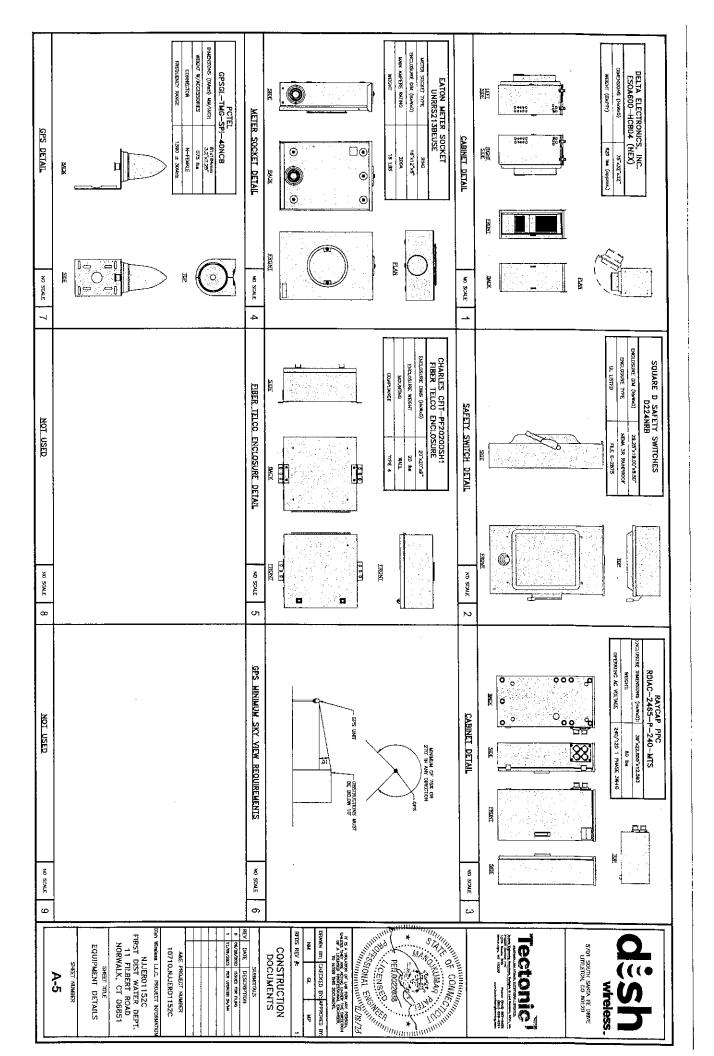


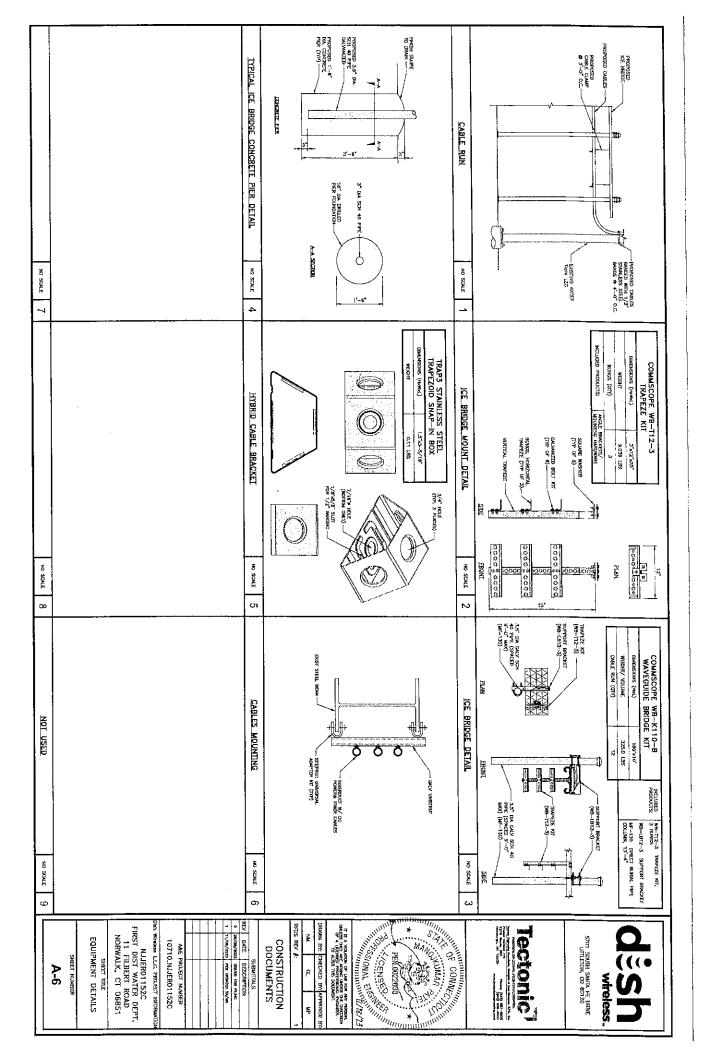


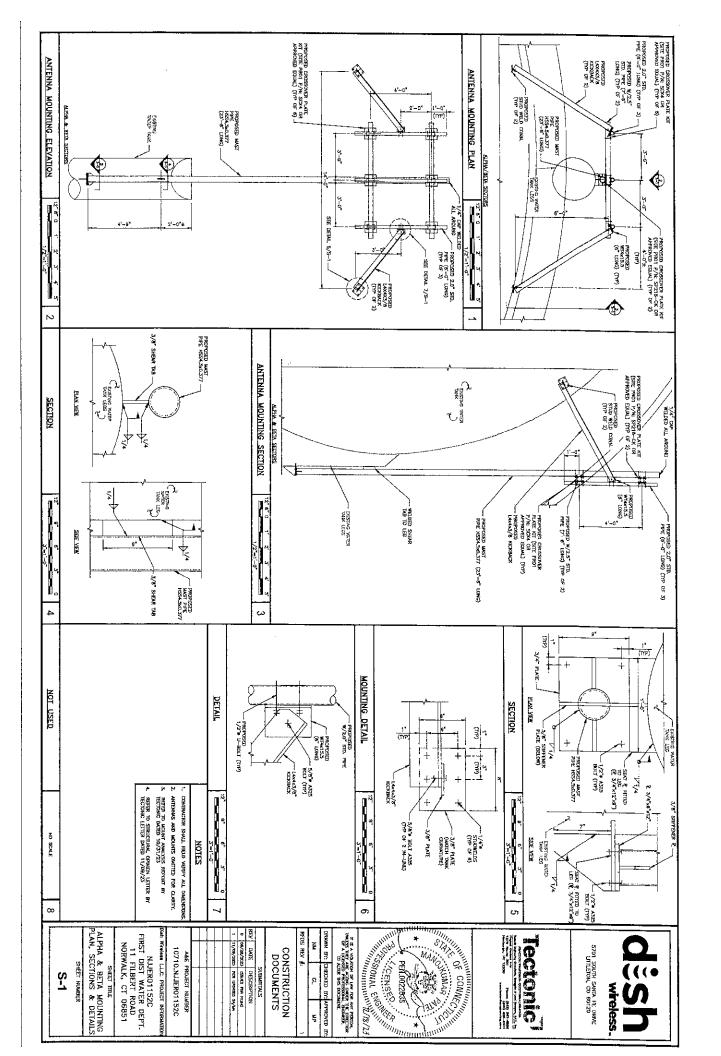


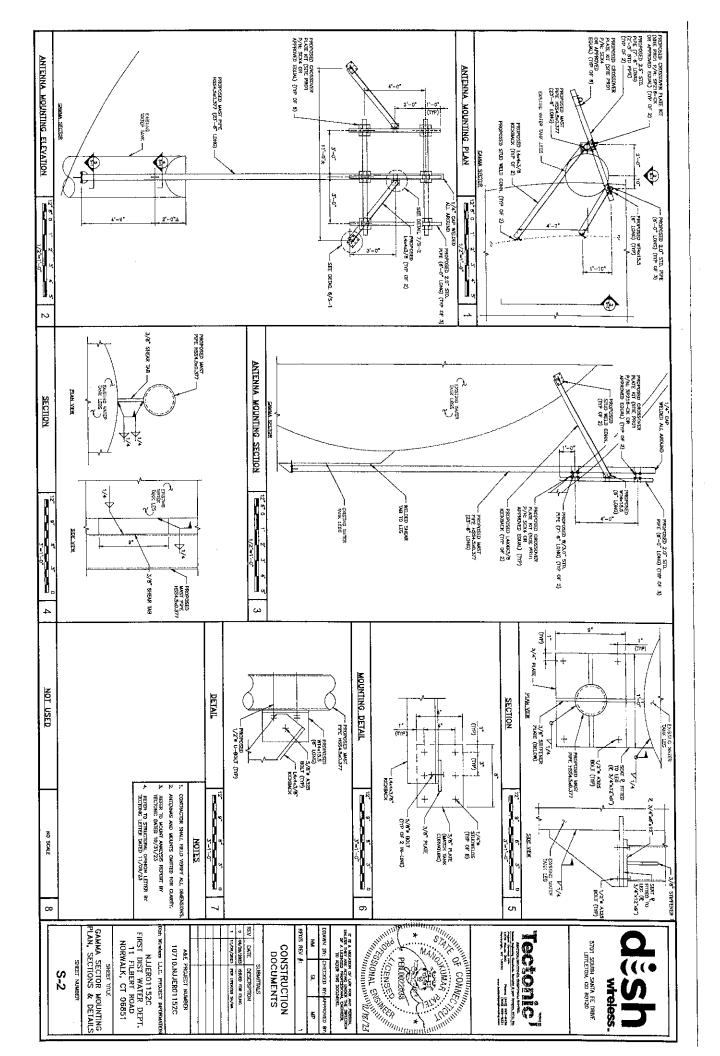


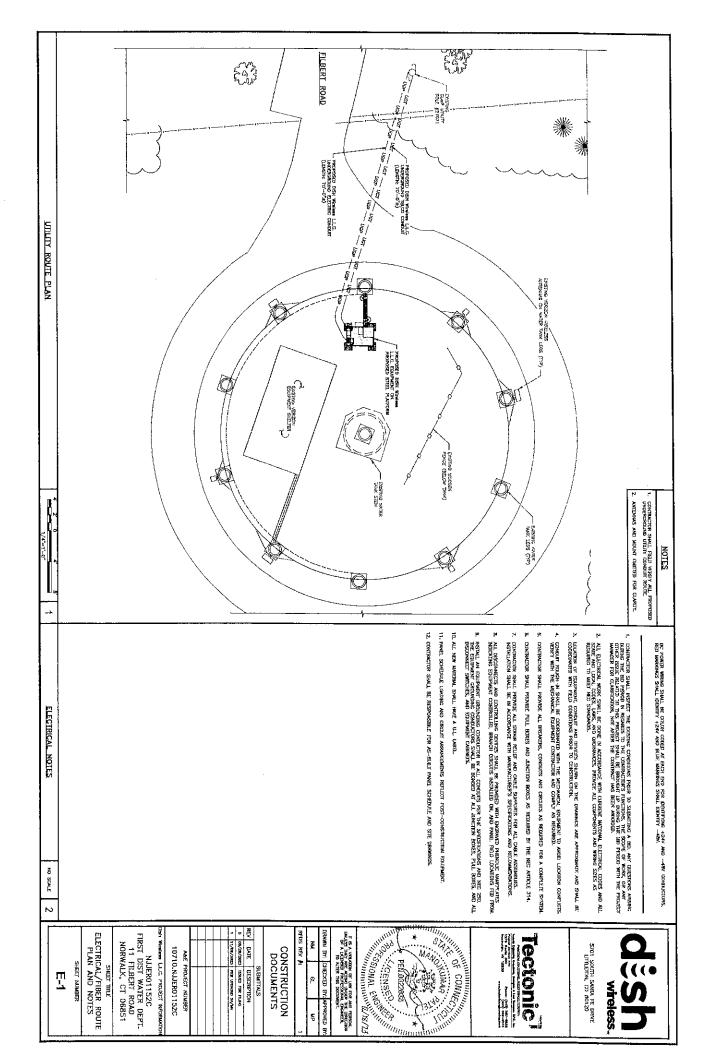


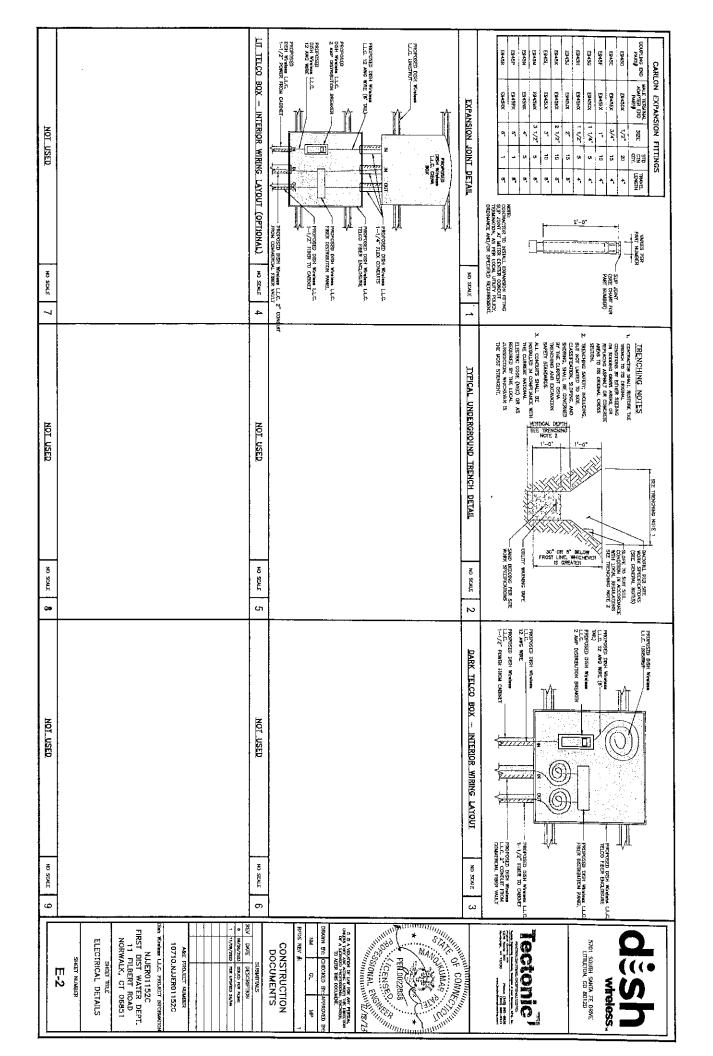


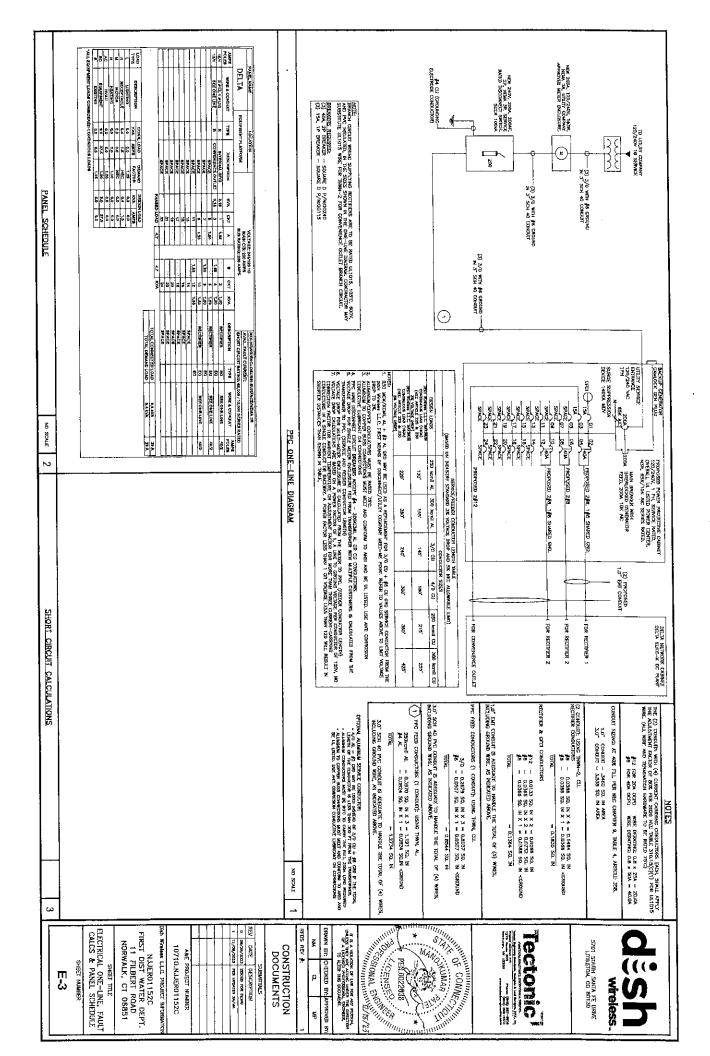


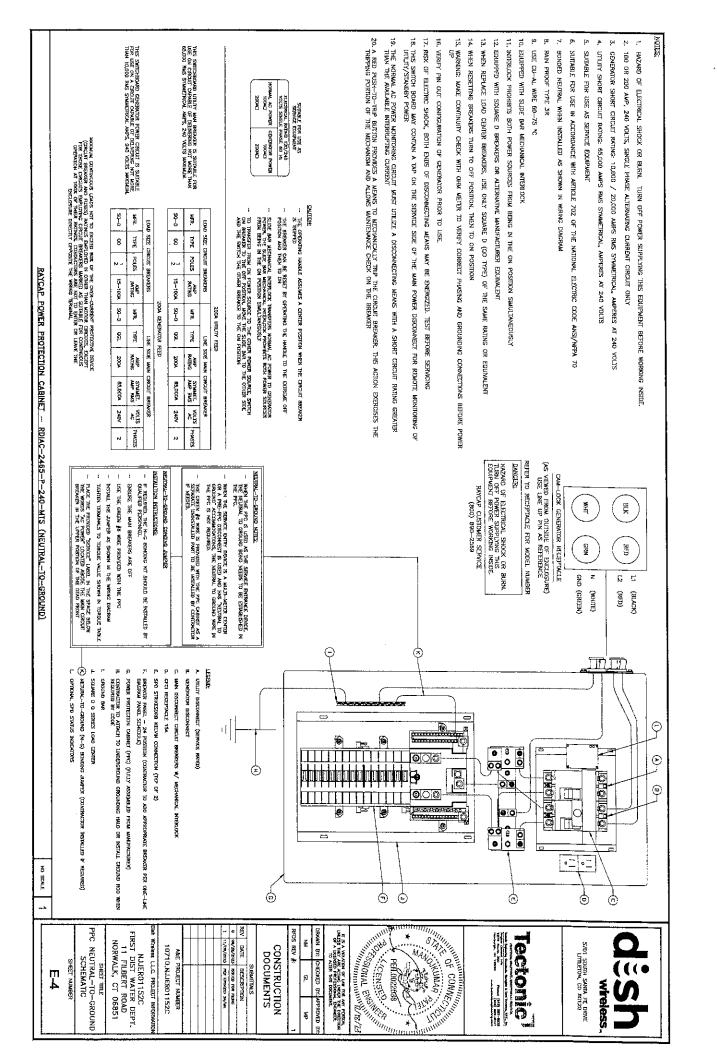


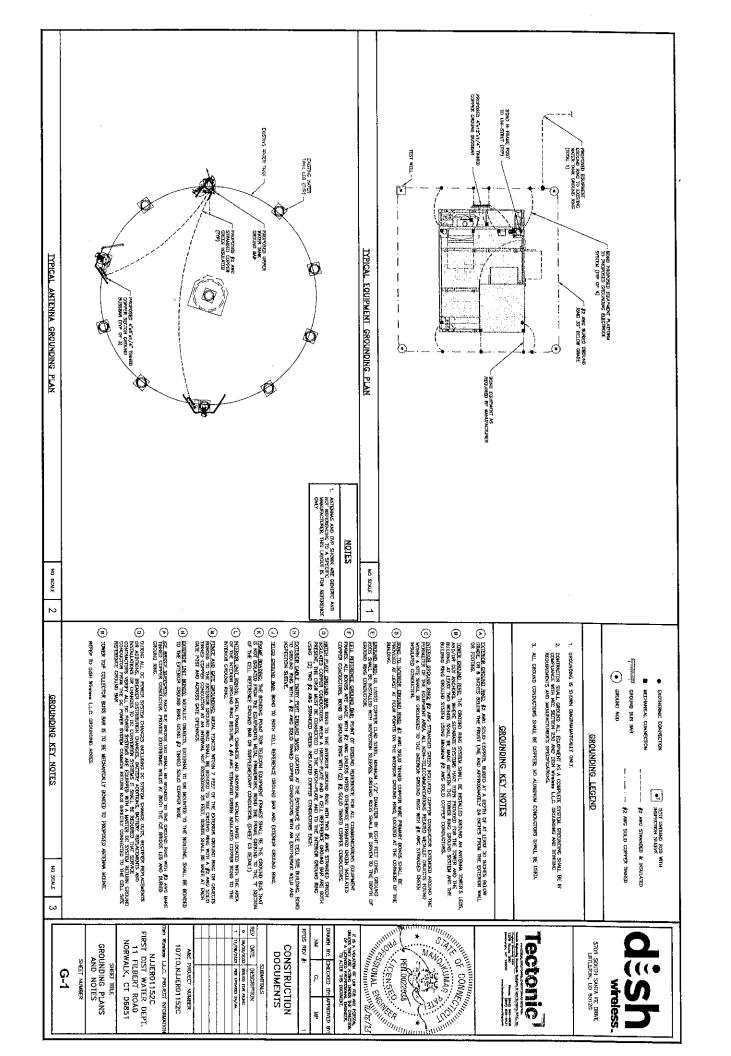


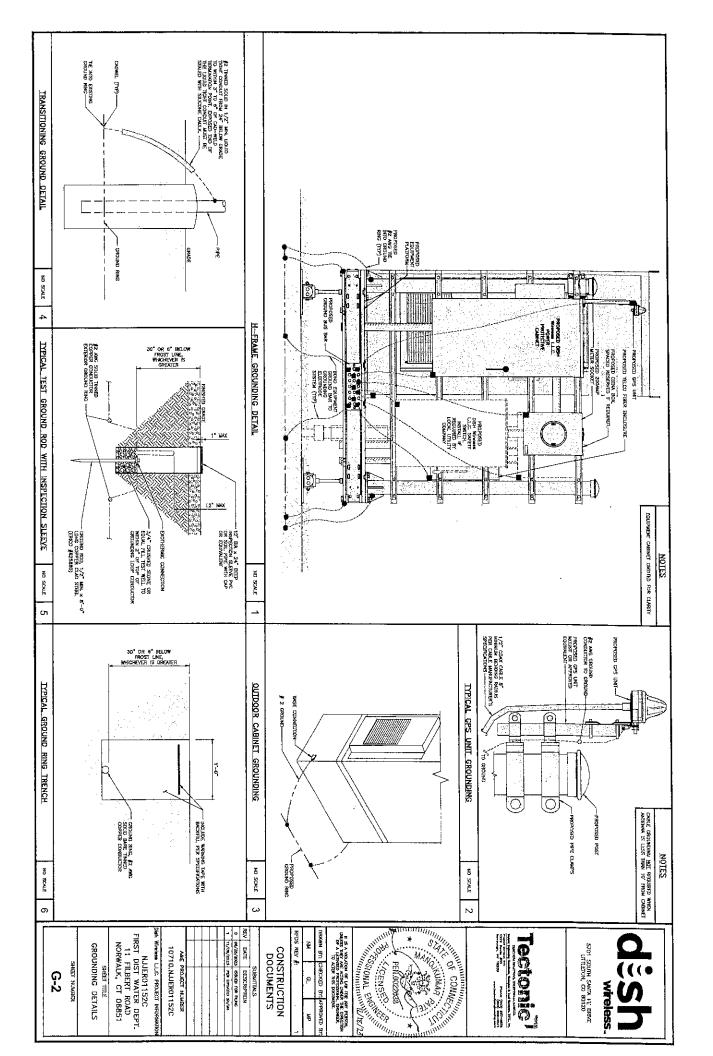


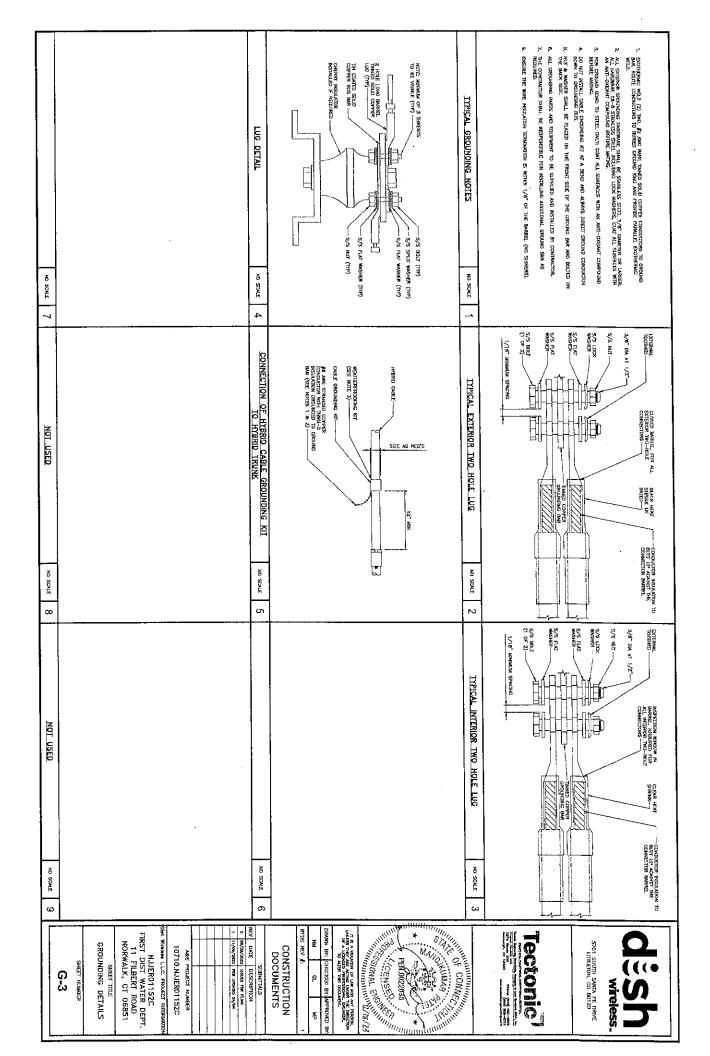


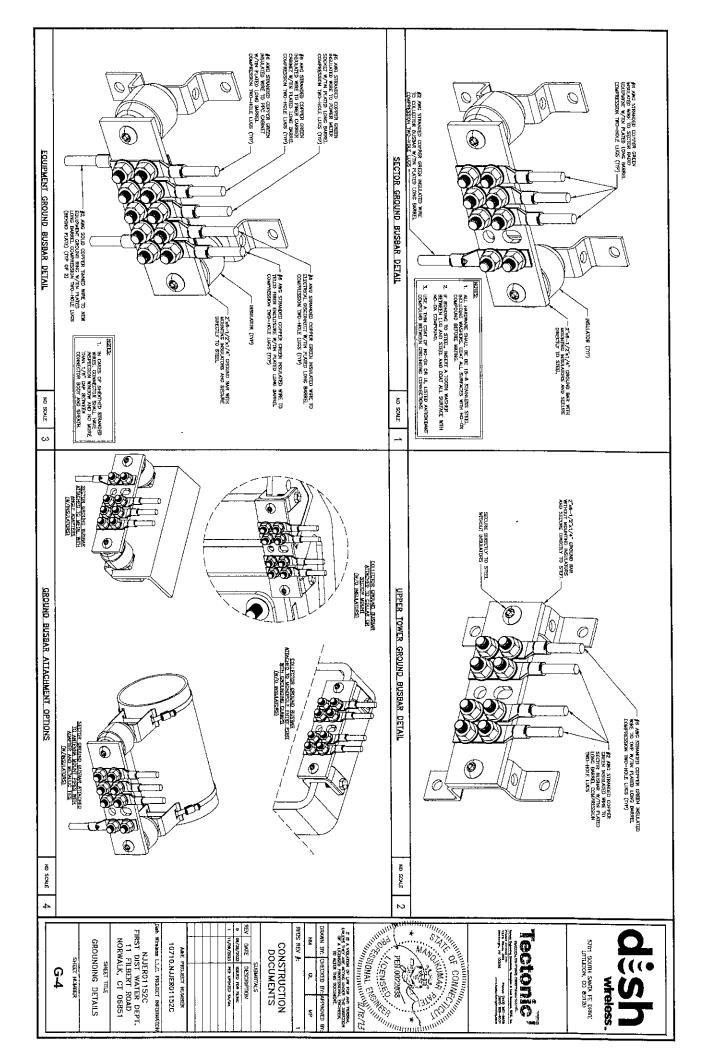


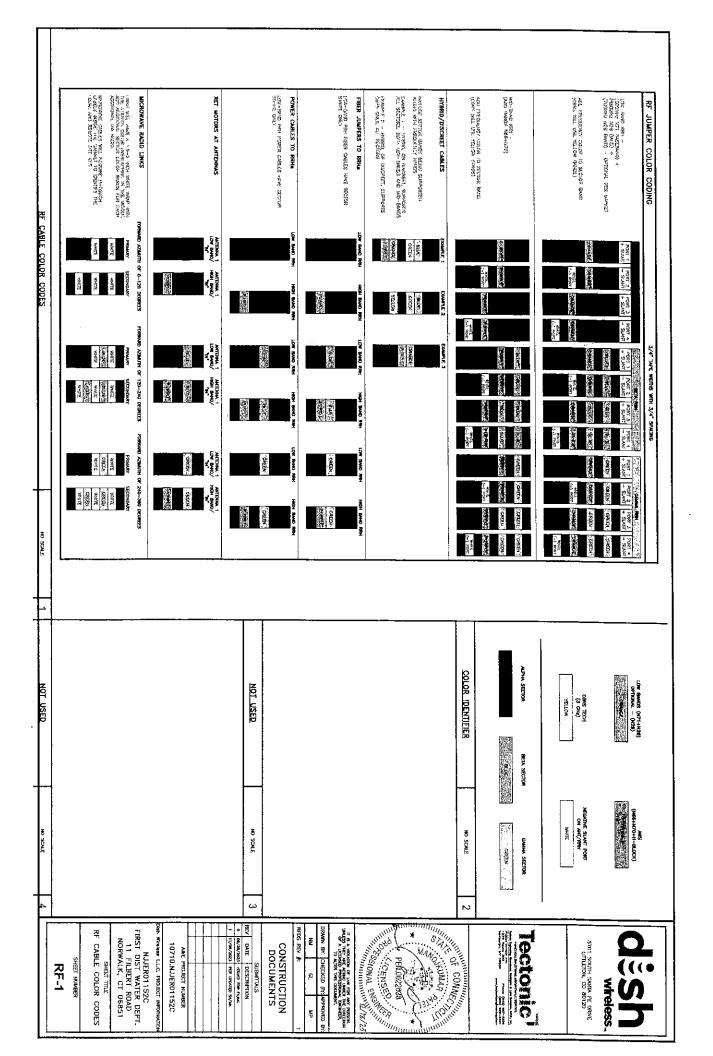


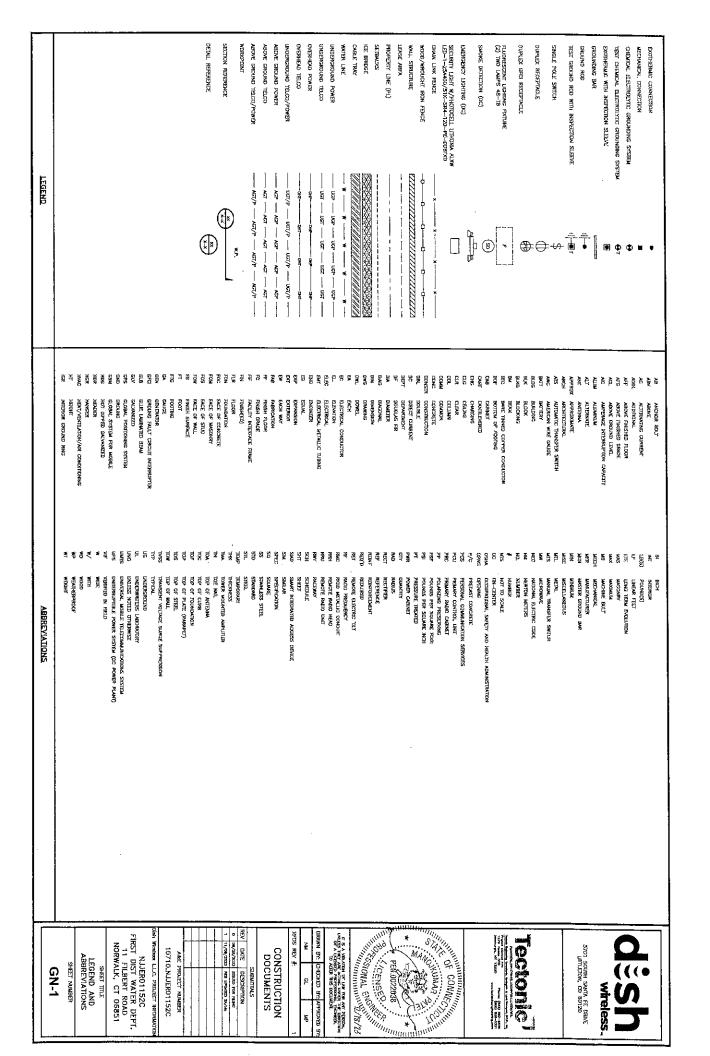












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8. ALL SIGNS TO BE 8.5"X11" AND MADE WITH 0.04" OF ALUMINUM MATERIAL

INFORMATION

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5701 SOUTH SANDA FE DRIVE

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









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

Cull the DISH Wireless LL.C. NOC at 1-866-424-4874 grier to working beyond this point.

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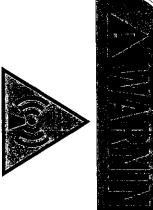
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THIS SIGN IS FOR REFERENCE PURPOSES ONLY

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RF SIGNAGE



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NJJER01152C FIRST DIST WATER DEPT. 11 FILBERT ROAD NORWALK, CT 06851 Dish Wireless LLC PROJECT INFORMATIO

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SITE ACTIVITY REQUIREMENTS:

1. NOTICE TO PROCEED — NO WORK SHALL COMMENCE PRIOR TO CONTRACTOR REDEMING A WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASSE ORDER, PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE DISH WIRELESS AND TOWER OWNER NOC & THE DISH WITNINGS LL.C. AND TOWER OWNER CONSTRUCTION MANAGER.

"LOOK UP" - DISH Wireless LLC. AND TOWER OWNER SAFETY CLIMB REQUIREMENT:

THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, ANSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REMPOREMENTS, AND/OR EQUIPMENT ANSTALLATIONS SHALL NOT COMPROMISE. THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL NICLIBE, BUT NOT BE LUMITED TO. PRICHING OF THE WIRE ROPE FROM ITS SUPPOPRISE, DIESET ONLYDE OR CLOSE PROCEMENT. TO THE WIRE ROPE FROM ITS SUPPOPRISE DIESET CONLYDE OR CLOSE PROCEMENT OR CLOSE PROCESS. AND SAFETY CLIMB, INCLUDING EXISTING MODIFICATIONS IN SIZE TAGED DUT AND REPORTED TO VIOLE DIES MYCHARA LLC, AND TOWER DAYS. IN CHARACTER CLICK AND TOWER OWNER POOR ONLYDING MY THE MODE TO COMPONIES IN STRUCTURE OF THE WIRE POOR TO COMPONIES IN STRUCTURE OWNER POOR ONLYDING MY THE MODE TO COMPONIES IN STRUCTURE OWNER POOR ONLYDING MY THE MODE TO COMPONIES IN STRUCTURE OWNER POOR ONLYDING MY THE MODE TO COMPONIES IN STRUCTURE OWNER POOR ONLYDING MY THE MODE TO COMPONIES IN STRUCTURE OWNER POOR ONLYDING MY THE MODE TO COMPONIES OF THE WIRE POOR OF

3. PHOR TO THE START OF CONSTRUCTION, ALL REQUIRED JUNESDICTIONAL PERMITS SHALL BE OBTAINED. THIS INCLUDES, BUT IN JUNESDICTIONAL DELECTRICAL MEDIANNEMA, FIRE, RIDOD ZONIE, ENVIRONMENTAL, AND ZONING, AFTER ONSTIT ACTIVITIES AND CONSTRUCTION ARE COMPLETED). ALL REQUIRED PERMITS SHALL HE SATISFED AND CLOSED OUT ACCORDING TO LOCAL JUNESDICTIONAL REQUIREMENTS.

4. ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, REGIME PLANS, CLUBBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXCLUTION OF THE CONTRACTOR RESPONSIBLE FOR THE EXCLUTION OF THE CONTRACTOR AND ANY APPLICABLE HOUSTRY CONSEDSUS STANDARDS RELATED TO THE CONTRICUTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE ATOLAS (LATEST EDITION) AND DISH WIRMSHEELLE. AND TOWER DEVENTED STRUCTURE (S) INCLUDING THE REQUIRED INVOLVED TO ANSI/ASSE ATOLAS (LATEST EDITION) AND DISH WIRMSHEELLE. AND TOWER DEVENTED STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA—322 (LATEST EDITION).

S. ALL SITE WORK TO COMPLY WITH DISH WINNERS LLC, AND TOWER OWNER INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON DISH HITMMERS (LLC, AND TOWER OWNER TOWER SITE AND LATEST VERSION OF ANSITAL-1019-A-2012 "STANDARD INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS." 몱

CHANGE OF INSTALLATION IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWNING, THE CONTRACTOR SHALL PROPOSEE ALTERNATIVE INSTALLATION FOR APPROVAL BY DISH WIRMORS LLC, AND TOWER DWIER PROOF TO PROCEEDING WITH ANY SUCH

7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND DRIDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, AND DRIDINANCES, CONTRACTOR SHALL INSPECTION SHALL INSPECTION AND PROPLICABLE MORE CARRIED ORDINANCES AND PAPILICABLE MONEY. AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.

9. THE CONTRACTOR SHALL CONTACT UTUITY LOCATING SERVICES INCLUDING PRIVATE LOCATES SERVICES PRIOR TO THE START OF CONSTRUCTION. 8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

10. ALL EXISTING ACTIVE SEWER, WATEX, GAS, ÉLECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROPEREDED AT ALL TIMES AND WHERE REQUISED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE PROJECTED AT ALL TIMES AND WHERE REQUISED FOR THE PROPERED RECONSTRUCTION OF DIRELLINE PREPER ADVIOLOGY REAR UTILITIES, CONTRACTOR SHALL PROVIDE SAFETY TRANSING FOR THE WORKING CREW, THIS WILL INCLUDE BUT NOT BE LIMITED TO A) TRENCHING THE WORKING CREW, THIS WILL INCLUDE BUT NOT BE LIMITED TO A) TRENCHING AND EXCANATION E) CONSTRUCTION SAFETY Æ

ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND DISH PROJECT SPECIFICATIONS.
LATEST APPROVED REVISION.

DISPOSED OF LEGALLY. CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRUSH AT THE COMPLETION OF WORK, IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REPUSE SHALL BE REMOVED FROM THE SITE AND

#ORK. 전 전 전 EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF DISH WINNESS LLC., AND TOMER OWNER, AND/OR COCAL UTILITIES.

14. THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED ON INDIVIDUAL PRICES OF EQUIPMENT, ROOMS, AND SHELTERS. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS

15. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE.

THE AREAS OF THE CHANES REDERRY DISTURBED BY THE WORK AND NOT CONCRED BY THE TOWER, EQUIPMENT OR DRIVENY, SHALL BE GRAUDE TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE CONSTRUCTION DAWNINGS AND/OR PROJECT SPECIFICATIONS.

19. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAYEMENTS, CURRS, LIANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER. 18. CONTRACTOR SHALL MINIMAZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION, EROSION CONTROL MEASURES. IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELNES FOR EROSION AND SEDIMENT CONTROL.

20. CONTRAC REMOVED FROM LOCATION. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXAL CABLES AND OTHER TIEMS. TROM THE EXISTING FACILITY, ANTENIAS AND RADIOS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED

CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY

, NO FILL OR EMBAYKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND, FROZEN MATERIALS, SNOW OR ICE SHALL NOT PLACED IN ANY FILL OR EMBANKMENT.

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1.FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS

CONTRACTOR-GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION

TOWER OWNER OWNER

CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN. THESE DRAWNESS HAVE BEEN PREPARED LISING STANDARDS OF PROFESSIONAL CARE AND COMPULERESS NORMALLY THE DEPOSITOR OF THE PROFESSIONAL OF THE PROFESSI

3. THESE DRAWINGS REPRESENT THE PINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNOLES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MESURES NECESSARY FOR PROTECTION OF LEF AND PROPERTY CHERIC CONSTRUCTION, SUCH MESCHES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACHES, COMMORK, SHORING, STRUCTURE ONLY.

SITE VISITS BY THE ENQUERE, OR HIS REPRESENTANCE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR SHUCTURAL DRESENVATION OF THE PARISHED STRUCTURE ONLY. EIG

4. NOTES AND DEJAUS. IN THE CONSTRUCTION DRAWINGS SHALL THATE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DEFAUS.

**METER NO DEJAUS ARE SHOWN, CONSTRUCTION SHALL CONFIDEN TO SHALLA WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONFIDENT OF THE CONFIDENT OF

S. SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MENSUREMENTS ON THE ORMINIOS TO ASSIST IN THE FABRICATION AND/OW PLACEMENT OF CONSTRUCTION ELDENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERBY THE DIMENSIONS, MEASUREMENTS, AND/OW CLEARANCES SHOWN IN THE CONSTRUCTION OF MADRICATION OF OLD THAY NEW OR EXISTING CONSTRUCTION ELDENTS. IF IT IS DETERMINED THAY THERE ARE DISCREPANCIES AND/OW CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS

E. PRIOR TO THE SUBMISSION OF BIDS, THE BUDDING CONTRACTOR SHALL NIST THE CELL SITE TO FAMILMAZE WITH THE DESIRED CONTRACT AND TO CONTRIAL THAT THE MORK ON HE ACCUMENTED AS SHOPMY ON THE CONSTRUCTION DRAWNACS.

JOSHEP CANACT FOUND SHALL BE BRANCHT TO THE ATTENTION OF CHERER PCC AND TOWER OWNER. AN

ALL MATERALE PURNEND AND INSTALLED SHALL BE IN STREET ACCORDANCE WHI ALL APPLICABLE CODES, REGULATIONS AND CRIPIC CHAPTLY CHAPTER AND CHAPTLY CHAPTLY

8. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTONINCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWNINGS.

9. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

IT THE SPECIFED EQUIPMENT ON NOT BE INSTALLED AS SHOWN ON THESE DRAWNAS, THE CONTRACTOR SHALL PROPOSE.
ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND TOWER DWINER PRIOR TO PROCEEDING WITH ANY SUCH CHANGE
INSTALLATION.

11. CONTRACTOR IS TO PERFORM A SITE INVESTIGATION, BEFORE SUBMITTING BIDS, TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, AND TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND GROUNDING PLAN

12. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PANEMENTS, CURBS, LANDSCAPING AND STRUCTURES, ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF DISH WITHINGS L.C.C. AND TOWER OWNER

13. CONTRACTOR SHALL LEGALLY AND PROPERTY DISPOSE OF ALL SCRAP MATERIALS SUCH AS CONVAL CABLES AND REMOVED FROM THE EXISTING FACILITY. ANTENIAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS

CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY

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ARE PROJECT NUMBER

GN-3

GENERAL NOTES

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

- 1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 316, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST—IN-PLACE CONCRETE.
- UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (fc) OF 3000 pai AT 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE THAN 90 MINIMITY SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90'F AT TIME OF PLACEMENT.
- 4. CONDRETE EXPOSED TO FREEZE-THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES, AMOUNT OF AIR ENTRAININENT TO BE TASSED ON SIZE OF AGGREGATE AND ES CLASS EXPOSURE (VERY SEVENG), CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER—TO—CEMENT RATIO (W/C) OF 0.45.
- S. ALL STEEL RENFORCING SHALL CONFORM TO ASTAL AGIS, ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTAL AIRS, ALL SPUCKS SHALL BE CLASS "B" TRUSION SPLICES, UNLESS NOTED OTHERWISE, ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE, VIDLD STRENGTH (Fy) OF STANDARD DEFORMED BARS ARE AS FOLLOWS:

#4 BARS AND SMALLER 40 Kgi

BARS AND LARGER 60 km

B. THE FOLLDWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STFEI. UNLESS SHOWN OTHERWISE ON DRAWINGS:

- CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
- CONCRETE EXPOSED TO EARTH OR WEATHER
- #6 BARS AND LARGER 2"
- #5 BARS AND SMALLER 1-1/2"
- CONCRETE NOT EXPOSED TO EARTH OR WEATHER
- SLAB AND WALLS 3/4"
- BEAMS AND COLUMNS 1-1/2
- A TOOLED EDGE OR A $3/4^{\circ}$ CHAMPER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, ACCORDANCE WITH ACI 301 SECTION 4.2.4.

ELECTRICAL INSTALLATION NOTES:

- 1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL STATE, AND LOCAL CODES/ORDINANCES.
- CONDUIT ROUTINGS ARE SCHEMATIC, CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
- WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
- ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
- ALL EQUIPMENT STALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL AND SHALL CONFORM TO REQUIREMENT OF NATIONAL ELECTRICAL CODE.
- 4.2. ALL OVERCUPRENT DEVICES SHALL HAVE AN INTERRIPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 22,000 AC MINIMON, VETIEY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELSCRIPCAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADDPTED CODE, PRE THE GOVERNING JURISDICTION.
- 6. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOLD TACS SHOWING THEIR RATED VOLTAGE. PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (LA. PANEL BOARD AND CIRCUIT S. EACH END OF EXERY POWER PRASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABLED WITH COLD-CONDUCTORATION OR ELECTRICAL TYPE (AM BEAUT). THE IDENTIFICATION METROD SHALL CONFORM WITH NEC AND OSHA.

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- PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
- THE WRAPS ARE NOT ALLOWED.
- 10. SUPPLIMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH TYPE THEW, THEN, THEN-2, KHIW, ZHEW, ZHEW, ZHEW, ZHEW, ZHEW, OR REW-2, INSULATION UNLESS OTHERWISE SPECIFIED.
- 11. POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI-CONDUCTOR, TYPE SOOM CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED.
- 12. POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI-CONDUCTOR, TYPE TO CABLE (\$14 OR LARGER), WITH TYPE THAM, THAM, THAM, ZHAM, XHAW—Z, THA, THW—Z, RHW, OR RHW—Z INSULATION UNLESS OTHERWISE SPECIFIED.
- 13. BETTS ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND (OR EDUAL), LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75°C (90°C IF AVAILABLE).

RACEWAY AND CABLE TRAY SHALL BE USTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL ANSI/IEEE AND

- DAPOSED E ELECTRICAL METALLIC TUBRAG (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGIO METAL CONDUIT (RMC) SHALL BE USED FOR D INDOOR LOCATIONS.

- ELECTRICAL METALLIC TUBING (EMT) OR METAL—CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDUOR LOCATIONS.
- 17. SCHEDULE 40 PVC INIDERGROUND ON STRWIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRODE PVC CONDUIT.
- 18. LOUID—TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID—TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VISINITION OCCURS OR FLEXIBILITY IS NEEDED.
- 19. CONDUIT AND TURNOS FITHINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITHINGS ARE NOT ACCEPTABLE.
- CABINETY, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCOMBANCE WITH NEWA, UL ANSI/TEEE AND THE
- NEC.

WIREWAYS SHALL BE METAL WITH AN ENAMBLE FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS

- (WIREMOLD SPECMATE WIREWAY). SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).
- ZX. CONDITIS SHALL BE RATIENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAFS AND HANGES. EXPLOSIVE EXPLOSIVE EXPLOSIVE (I.M. POMORH-ACTUATED) FOR ATTACHING HANGES TO STRUCTURE, WILL NOT BE FERMITED. CLOSETLY FOLLOW THE LINES OF THE STRUCTURE, WANTAM CLOSE PROXIMITY OTHE STRUCTURE AND KEEP CONDUITS IN TIGHT ENCEDES. CHANGES IN DIRECTION TO ROSTINGTIONS. EXPLOSE SHALL BE MADE WITH CONDUIT OUTLIER BEDGES. CONDUIT SHALL BE RESIDED OF CONDUITS SHALL BE FIRSHED TO CLEAR MANKER, PAPALLE, AND PERPONDULLAR TO STRUCTURE WILL AND CRUBEN HAS FERSHED TO CLEAR FOR THE PAPAL BE SHALL DE SHALL BE SHALL DE S
- 24. Equipment (abinets, termanal boxes, junction boxes and puil boxes shall be galvanzed or efoxy-conted sheet Steel shall weet or exceed ul so and be rated near 1 (or better) for interior locations and near 3 (or better) for exterior locations.
- 25. WEIAL RECEPTAGLE SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING; SHALL MEET EXCEED UL 514A AND NEAK OS 1 AND BE RATED NEAK 1 (OR BEITER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (MP BEITER) FOR EXTERIOR LOCATIONS. 못 뭐
- 26. NONMETALLIC RECEPTACIE. SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEWA OS 2 (NEWEST REVISION) AND BE PAYED NEWA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (MP OR BETTER) FOR EXTERIOR LOCATIONS.
- 27. THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR DISH WINNESS LLC. AND TOWER OWNER BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
- 28. THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFECUARD LIFE AND PROPERTY.
- INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW DISH Wireless L.L.C.".
- ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

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CONSTRUCTION DOCUMENTS

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Minimum LLC PROJECT INFORMAT 10710.NJJER01152C

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GENERAL NOTES

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GROUNDING, NOTES:

- 1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, PADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE. BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE, WITH THE NEC.
- THE CONTRACTOR SHALL PERFORM IEEE FAIL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYNTIAIS, THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NIFDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
- 4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- S. WE'AL PACEMAY STALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS TO DIS
- 7. CONNECTIONS TO THE CROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE CROUND BUS ARE PERMITTED. 6. - EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMBATIAL EDURANDET GROUND WIRES, \$6 STRANDED COPPER OR LARGER FOR INDOOR 8TS, \$2 BARE SOLD TINNED COPPER FOR OUTDOOR 8TS.
- B. ALL EXTENSIVE GROUND CONSULTINES BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE $\frac{1}{2}$ 2 SOLID TINNED COPPER UNILESS OTHERWISE INDICATED.
- 10. USE OF 90' BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45' BENDS CAN BE ADEQUATELY SUPPORTED. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE
- ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
- ü COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXCITHERMIC WELD CONNECTIONS.
- ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLITED TO THE BRIDGE AND THE TOWER GROUND
- APPROVED ANTIOXIDAM COATINGS (.a. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND
- 16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL
- 17. MISCELLANEDUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
- BOND ALL METALLIC OBJECTS WITHIN 5 ft of MAIN GROUND RING WITH (1) #2 BARE SOLD TINNED COPPER GROUND
- 19. GROUND CONDUCTORS USED FOR THE FACHLITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH HEIZHLIG GRECH'S THAT FORM, A RING AROUND THE CONDUCTOR, SUCH AS HEIZHLIG CONDUCTOR, MEIZH, SUFFORT CLE'S OR CONDUCTORS, NON-HEIZHLIG MAITEAUL SUCH AS PYC CONDUCT SHALL BE USED. HHERE USE OF HEIZH, CONDUCT IS INMODIBABLE (LA. NOMMETALLIC CONDUCT PROPHETED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH DOD OF THE METAL CONDUCT.
- 20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #Z BARE SOLID TINNED COPPER IN 3/4" NON-METALLC, FLEXBLE CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT, THE EXPOSED END OF THE CONDUIT MUST BE SEALED WITH STUICONE CALLK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).
- 21. BULDINGS WHERE THE MAN GROUNDING CONDUCTORS ARE REDURED TO BE ROUTED TO GRADE THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFIDP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTIC GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 27_0 COPPER, ROOFIDP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BULDING STELL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BULDING MAIN WATER LINE (FERROLS OR NOWFERROLS METAL PIPING CHLY). DO NOT ATTACH GROUNDING TO FIRE SPRINKLER SYSTEM PIPES.

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GENERAL NOTES

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STRUCTURAL NOTES:

- DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SWALL CONFURN TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN
- STRUCTURAL STEEL WIDE FLANGE SLAPES SHALL CONFORM TO ASTM A992, "STEEL FOR STRUCTURAL SHAPES FOR USE IN BUILDING FRANKES", GRADE SO, UNLESS OTHERWISE INDOLYED, IF THE MEARER SIZES WINDCATED ARE NOT MAULIAI, I'N IMIS GRADE, ASTM AS72, THEN—STREAGTH LOW—ALLOY COLLUMBUR—VANADIUM STRUCTURAL STREEL", GRADE 50, MAY BE
- IN ROUNDS AND SUMPES", GRADE C. SUBSTITUTION WITH ASTM ASSO PHE IS NOT ACCEPTABLE
- FIELD WELDING IS NOT PERMITTED, UNLESS SPECIFICALLY INDICATED OTHERWISE ON THESE DRAWINGS.
- ALL FILLET WELDS SHALL BE MADE USING THE SHIBLDED METAL ARC WELDING (SMAW) PROCESS WITH E/TOXX ELECTRODES UNLESS OTHERWISE NOTED.
- MISCELLANEOUS STEEL INCLUDING THREADED RODS, CHANNELS, ANOLES, PLATES, AND BARS SHALL CONFURM TO ASTA A35 "CARBON STRUCTURAL STEEL", UNLESS OTHERWISE INDICATED.
- U-BOLTS SMAL CONFORM TO ASTM AXS OR AXIT "CARBON STEEL BOLTS. STALL BE 1/2" DAMEER N 91/5" HOLES, UNLESS OHERWISE NOTED. DASTM AXIS ON ALL CONNECTIONS.
- ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 "ANCHOR BOLTS, STEEL 36, 55, AND 105-KSI YIELD STRENGTH", GRADE 36.
- STRUCTURAL CONNECTION BOUTS SHALL BE HIGH STREAMTH BOLTS CONFEDRANCE TO ASTA AZZS "STRUCTURAL BOLTS, STEEL, HEAT TREAMED, DOLTS SHALL BE 3/4 INCH DAMETER, TYPE X, LINLESS OFHERWISE NOTED.
- 10. MATCHING NUTS SHALL BE HEAVY HEX TYPE, CONFORMING TO ASTM ASS3 "CARBON AND ALLOY STEEL NUTS", WASHERS, WHERE REQUIRED, SHALL CONFORM TO ASTM FA38 "HARDENED STEEL WASHERS".
- 11, FELD CONNECTIONS SHALL BE BOUTED UNLESS OTHERWISE MODIATED. ALL BE MODE WITH NOT LESS THAN TWO (2) HIGH STRENGTH BOULDS, OR EDUNALEY WILD.
- ALL STEEL SUPPORTS SHALL BE INSTALLED WITH DOUBLE NUTS AND SHALL BE INSTALLED SNUG TIGHT.
- TA STRUCTURAL CONNECTIONS SMALL BE SNUG THAT IN ACCORDANCE WITH THE RESEARCH CONNECT ON STRUCTURAL CONNECTIONS "SPECIFICATION FOR STRUCTURAL LORIS USING ASTM AZZS OR ASSO BOLIS", UNLESS OTHERWISE NOTED.
- BOLTS IN SUP-CHITCAL CONNECTIONS SHALL BE FULLY PRETENSIONED BY THE TURN-OF-NUT METHOD IN ACCORDANCE WITH THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS "SPECIFICATIONS FOR STRUCTURAL COUNCIL USING ASTM ANDS BOLTS".
- ANCHOR BOLTS SHALL BE TENSIONED BY THE TURN-OF-NUT METHOD AFTER GROUTING OF BASE PLATES.
- 15. ALL HOLES FOR BOLTS SHALL BE 1/16 INCH LARGER THAN THE BOLT DAMEIER WITH AN EDGE DISTANCE OF AT LEAST 1 1/2 TIMES THE BOLT DAMEIER AND A SPACHED OF AT LEAST 5 TIMES THE BOLT DAMEIER, ALL BOLTS SHALL BE PROVIDED WITH PALMITS OR LOCK NUTS
- COMPACTER SHALL EXALIFY WITH AWS 11,1 "STRUCTION, MEDING CODE.
 STELL" FOR PROCEDURES, APPEARANCE AND QUALIFO (IN RELIDS, AND FOR MEDING, ALL MEDIES AND FOR MEDING, ALL MEDIES AND FOR MEDING, ALL MEDIES AND FOR MEDICAN PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD PROCESSES SHALL BE AVENTABLE." QUALIFICATION PROCEDURES"
- N. METAL DECK SMALL BE FORMED STEEL DECK AS MANUFACTURED BY VOLCHAFT, NC. OR APPROVED EDUAL DECK SMALL BE MEDICATED FROM ALVANIZED STEEL CONSTOMING TO ASTM ASSS. "STEEL SMEET. STRUCTURAL DAVID" (GALVANGALED) OR ZING-HOM ALLOY-CONTED (GALVANGALED) BY THE HOT-UP PROCESS", STRUCTURAL DIAUTY. CONTING SMALL CONTIDES OF DECKSON, CONTING SMALL CONTING SMALL CONTIDES OF DECKSON, CONTING SMALL CONTING SMALL
- BY THE ENGINEER ALL OPENINGS REQUIRED IN THE DECK WHICH ARE NOT SHOWN ON THE STRUCTURAL DRAWNUS SHALL BE CUT IN THE FIELD ONLY AS APPROVED
- SPATING SPAIL BE TYPE "OW" GALYANZEN WELDED STEEL BAK GRATING AS MANUFACTURED BY MCNICHOLS, OR APPROVED EQUAL, BEARING BARS SPAIL BE AS FOLLOWS:

INTERIOR GRATING 1" X 3/16" PLAIN

MUNIMULA 1 1/4"X3/16" GAL SERIES

BAND ALL EDGES, AND ATTACH TO SUPPORTING MEMBERS AT 18" CENTER WITH MODEL GG GALVANIZED G-CLIPS AS MANUFACTURED GRADNG FASTENERS INC. 92

- . EPANSON ANCHORS SHALL BE HILTI MIK BOLY TZ2 OR APPROVED EQUAL BY INSTALLATION SHALL BE IN ACCORDINGE WITH THE WANTHATTURER'S RECOMMEDIATION. MINIMUM EMBEDHENT SHALL BE 4–1/4" UNLESS OTHERWISE NOTED.
- ADHESIVE ANCHOR ASSEMBLIES SHALL BE AS MANUFACTURED BY HILTI OR ENGINEER APPROVED EQUAL, AS FOLLOWS: ANCHOR SYSTEM

BASE MATERIAL

ноцож сми ок вкіск

HIT HY-270 HT HY-200

INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. CONCRETE

23. HAMMER DRILLS ARE NOT TO BE USED WHEN DRILLING HOLES FOR SLEEVE OR EXPANSION BOLTS INSTALLED IN MASONRY BLOCKS/BRICKS.

24. ALL INTERIOR STRUCTIVAL STEEL SAALL BE SHOP PRIVE CONTED WITH A PAINTE, SUPERIOR FRANCE PACET AREAS TO BE FREEPROFIED NEW NOT BE PARMED, SUPERIOR SHAPE PRODUCED NEW PAINT BE PAINT MANUFACTURER'S RECOMMENDATIONS, AREAS WHICH MAY BE INACCESSIBLE AFTER NEXTULATION SHALL RECEIVE THO (2) COMTS OF PRIVER. FINISH PAINT AS DIRECTED BY OWNER/CARRIER.

25, FELD CONNECTIONS AND DAMAGED OR ABRADED AREAS OF SHOP PRIME COAT SHALL BE TOUCH-UP PAINTED WITH COMPATIBLE FIELD PRIMER.

25. ALL EXTERIOR STEEL SHALL BE CALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM ATZX "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.

- 27, ALL ENTERIOR BOLIS AND MISCELLANDIUS HARDWARE SHALL BE GALVANZED
 STEEL HARDWARE, UNLESS OTHERWISE NOTED.
- 29. STEEL WORK SHALL BE SUBJECT TO SPECIAL INSPECTIONS DURING CONSTRUCTION AS REQUIRED BY THE CODE.
- 30. COMPACTOR TO REMOVE MASTIC ON THE EXISTING WALL/PARAPET AT EVERY STEEL SUPPORT ATTACHMENT AND REPOINT MASDINEY AS REQUIRED. A BED OF SUCCING SHALL BE APPLIED ALL AROUND THE STEEL SUPPORT ATTACHMENT TO MAKE IT WENTHERPROPE.
- 31, ALL HOLES TO BE ADDED IN THE FIELD SHALL BE PLINCHED OR DRILLED.
 NO HOLE BURNING SHALL BE ALLOWED. REPAIR GALVANIZING IN ACCORDANCE WITH ASTAL A7BO.
- 32. THE NOTES CONTAINED HEREIN ARE NOT PROJECT SPECIFIC. THE CONTRACTOR SHALL UTILIZE ALL NOTES WHICH SOLELY PERÍAN TO THE WORK DEPICTED ON THESE DRAWINGS.

HILTI TESTING NOTES:

IF REQUIRED PER HILL SPECIFICATIONS. CONTRACTOR SHALL RETAIN HILL TO TEST AND CERTIFY THE JUNESSEE MACHONES SPECIFIED IN THE CONSTRUCTION DRAWNOCKS. TO BE INSTALLED IN MASCHARY, A MINIMUM OF DIE OF MATCHES IN MASCHARY, A MINIMUM OF DIE ONDERTON SHALL BE TESTED. FOR MATERIAN MUDIETS. A MANAMA OF ZEX OF MACHONES PER SECTIFI SHALL BE TESTED THE LOAD THE MACHONES FOR TESTED, MARINIAN THE LOAD FOR AT LESST WID MUSIES. APPLY A TESTED MAD RECORDED UND US REACHED IN AN MACHONE TO BE TESTED, MARINIAN THE LOAD FOR AT LESST WID MUSIES. AFTER SPECIFIED LOAD OF RAPITATION OF MACHONES AND RECORD OF A CONNECTION PHALL BE TESTED. MACHONE IN A CONNECTION PHALL BE TESTED. BENEFIED LOAD CHARGIT, ALL MACHONE ASSET OF MACHONES AND FURNISHED TO CHARGITA SHALL BE DOCUMENTED BY HILL MAD FURNISHED TO CHARGITA SHALL BE DOCUMENTED BY HILL MAD FURNISHED TO CHARGITA SHALL BE DOCUMENTED BY HILL MAD FURNISHED TO CHARGITA SHALL BE DOCUMENTED BY HILL MAD FURNISHED TO CHARGITA SHALL BE DOCUMENTED BY HILL MAD FURNISHED TO CHARGITA SHALL BE DOCUMENTED BY HILL MAD FURNISHED TO CHARGITA SHALL BE DOCUMENTED BY HILL MAD FURNISHED TO CHARGITA SHALL BE DOCUMENTED BY HILL MAD FURNISHED TO CHARGITA SHALL BE DOCUMENTED BY HILL MAD FURNISHED TO CHARGITA SHALL BE DOCUMENTED BY HILL MAD FURNISHED TO CHARGITA SHALL BE DOCUMENTED BY HILL MAD FURNISHED TO CHARGITA SHALL BE DOCUMENTED BY HILL MAD FURNISHED TO CHARGITA SHALL BE DOCUMENTED BY HILL MAD FURNISHED TO CHARGITA SHALL BE DOCUMENTED BY HILL MAD FURNISHED TO CHARGITA SHALL BE DOCUMENTED BY HILL MAD FURNISHED TO CHARGITA SHALL BE DOCUMENTED BY HILL MAD FURNISHED TO CHARGITA SHALL BE DOCUMENTED BY HILL MAD FURNISHED TO CHARGITA SHALL BE DOCUMENTED BY HILL MAD FURNISHED TO CHARGITA SHALL BE DOCUMENTED BY HILL MAD FURNISHED TO THE DESTRUCTURED WITH THE SURROLUMBAS AFTER TESTING.

MASONRY NOTES:

- DESIGN AND CONSTRUCTION OF ALL MASONRY WORK SHALL CONFORM TO ACL 530 AND 530.1 STANDARDS "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES", AND "SPECIFICATIONS FOR MASONRY STRUCTURES".
- CONCRETE MASONRY UNITS SHALL BE NORMAL WEICHT HOLLOW LOAD BEARING UNITS CONFORMING TO ASTM COO "LOADBEARING CONCRETE

MACOMATY UNITY." TYPE I (MOSTUME-COMPRELED), GRADE N. COMPRESSIVE, STREAMSH OF MASONAY (Fm) SHALL NOT BE LISS THAN ZOOD PSI, COLOR AND PAUSI AS INDICATED, SUBBECT TO APPROVAL BY OWNER.

- MORTAR SHALL CONFORM TO ACTM C270 "MORTAR FOR UNIT MASONRY" TYPE M OR S.
- GROUT SHALL CONFORM TO ASIM C475 GROUT FOR REINFORCED AND NON-REINFORCED MASONRY. ALL CELLS SHALL BE FILLED SOLID WITH NON-RENFORCED MASON GROUT AT REINFORCING.
- ALL MASONRY SHALL BE CONSTRUCTED IN RUNNING BOND.
- HORIZONTAL JOINT REINFORCING SHAIJ, BE STANDARD WEIGHT LADDER TYPE (2-NO. 9 GAGE SIDE RODS) SPACED VEKTICALLY AS INDICATED.
- NJECT GROUT INTO WEAK MORTAR WHERE THERE IS SEPARATION BETWEEN JOINTS.

MASONRY REPAIR NOTES:

- REPAIR ALL EXISTING BULK-HEAD/PARAPET WALL CHACKS WITHIN 3 FEET RADIUS OF THE MOUNT ATTACHMENT POINTS.
- CONTRACTOR IS RESPONSIBLE TO REPAIR ANY BRICK FRACTURE OR MORTÁR CRUCKS THAT MAY DEVELOP DURING CONSTRUCTION OF ANTENINA MOUNTS AND EQUIPMENT FRAME.

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- 3. DO NOT HAMMER DRILL INTO EXISTING BULKHEAD/PARAPET.
- CONTRACTOR TO REMOVE TAR/MASTIC ON THE EXISTING BULK-B-OJ/PARAPET AT EVERY MOUNT ATMOSHEDT AND REPOINT MASDIART AS REQUIRED. A BEAD OF SUCCIOUS EMALL BE APPLIED BEHIND AND ALL AROUND THE MOUNT ATMOSHMENT TO MAKE IT WEATHERPROOF.
- REPAIR WORK FOR BUILTHEAD/PARAPET TO BE PREFORMED/COMPLETED IN TWO STAGES, AS FOLLOWS:

STAGE 1: QUISIDE FACE

- REPAIR WORK TO BE DONE IN SECTIONS NOT TO EXCEED 4 FEET IN BUILCHEAD/PARAPET LENGTH.
- RE-POINT ALL AREAS AND REPLACE ALL CRACKED/DAMAGED BRICK AS REDURED.
- REPLACE PARGING TO MATCH EXISTING BUILDING AND PAINT TO MATCH.
- RESEAL ALL ANCHOR HOLES WEATHER—TIGHT.

STAGE 2: INSIDE FACE/BELOW ROOF LINE

- REPAIR WORK TO BE DONE IN SECTIONS NOT TO EXCEED 4 FEET IN BULKHEAD/PARAPET LENGTH.
- REMOVE LOOSE BULKHEAD/PARAPET MEMBRANE A MAXIMUM OF 3 FEET FROM EDGE OF ATTACHMENT.
- RE-POINT ENTIRE AREA AS REQUIRED.
- RESEAL AND REPLACE BULKHEAD/PARAPET MEMBRANE AND FLASHING TO MATCH EXISTING.

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- WELDING STUDS SWALL BE TYPE THTE PLANGED THREADED LUW CARBON COPPER CONTENTION, STADE, SWADE 1010 THROUGH 1020, CONFORMANT TO ASTAM AND STEPS, WAS CARRON AND ALLES CONFORMANT TO ASTAM AND STEPS, WAS CARRON AND ALLES CONFORMANT TO ASTAM AND STEPS, WAS CARRON AND ALLES CONFORMANT AND
- WEIDING PARAMETERS, MACHINE POWER AND DWELL TIME SHALL BE QUALIFIED FOR THE WEIDING POSITION, MATERIAL THICKNESS AND STIDD SIZE TO BE WEIDING PARAMETERS, MACHINE POCKER AS DEPARED IN ANS DIT. THE PROTEINER MUST BE REQUALIFIED.

 INSERT OF CHANGES IN THE SEIT-UP OCCUR AS DEPARED IN ANS DIT. THE PROTEINER MUST BE REQUALIFIED.

 CONFERENCE SHALL SHAPET CERTIFICATION OF WEIDINGS AS TIDD WEIDING TO THE ENGINEER AND OWNER PROTEIN TO COMMENCEMENT OF THE WORK.

 THE INSTRUCTION OF WEIDING STUDS SHALL BE PROTECULED ONLY DURING PERSONS OF CLEAR WEIGHTER.

 THE INSTRUCTION OF WEIDING SHALL BE PROTECULED THIS SHALL BE STATUSES SHELL OR INTLONE, AS SHOWN, GALVANIZED OR PLATED CHANGE SHALL BE STATUS SHELL OR INTLONE, AS SHOWN, GALVANIZED OR PLATED CHANGE SHALL BE STATUS SHELL NOT BE USED.

SURFACE PREPARATION:

- CLEANING PROCEDURES SHALL BE VERSIED AS MEETING THE MINIMUM REQUIREMENTS PER THE MAS WELDING HANDBOOK, VOLUME 2-PAST 1: WELDING PROCESSES, "CHMAIT CONTROL AND INSPECTION," FOR STUD WELDING. IF THE FUSIENGE COMTING STREEM CONTROLS LEAD OR OTHER PODISTIONALY HAZAROUUS PREMANES EXERGE, PROCEDURES FOR BEADON, AND DESCRICE, WILL BE REDURED.

 PREMANE SURFACE TO BE WELDED BY SPOT REMOVABLE PAINT TO MAKE MEDIL IN ACCORDANCE WITH THE STEEL STRUCTURES PAINTNG COUNCIL SEPC-SPIT "POWER TORK, CLEAVING TO BANE METAL", USE A 2M CLEAN STREP AT DISC, ROTARY BURR, OR ROTARY FLIE. THE LISE OF A SOLID GROWNOWS STONE, FAP WHEEL, OR WISE WHEEL IS NOT ACCEPTABLE.

 PRIMA TORK CLEAVING THE AND ACCEPTABLE.

 POLLOW POWER TOOL CLEAVING WITH A NON-FLAMMABLE SOLVENT CLEANING TO REMOVE ANY OLS, CONTAMINANTS, RUST, OR DIRT IN ACCORDANCE WITH SEPC-SPIT "SOLVENT CLEANING" PRICK TO STUD WELDING.

STUD QUALIFICATION TESTING AND SAMPLING

- THE COMMERCATION OF STUD APPLICATION AND PRE-PRODUCTION TESTING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 7 "STUD MEDITION" OF ANS DIT.1. INTIN, CHAPTER 7 "STUD MEDITION" OF THE PROTECTION SHALL BE CHAPTER 7 "STUD MEDITION" OF THE PROTECTION SHALL BE CHAPTER OF THE SHALL BE SHAPES SHALL WERE AND STEEM SHALL BE SHAPED SHALL BE SHAPED ON THE SHALL BE SHAPED ON THE SHALL BE SHAPED ON THE PROTECTION SHALL BE SHAPED SHALL BE SHAPED ON THE SHALL BE SHALL BE SHAPED. THE SHALL BE SHAPED ON THE SHALL BE SHAPED.

1/4" (1/4-20 UNC) EZIS GILLS TESTING TORQUE 5.9 FT-LB

- IF FAULRE OCCURS, THE PROCEDIRE SHALL BE CORRECTED AND THE (2) MORE STUINS SHALL BE WELDED AND TESTED.

 PRIDE TO PRODUCTION CONTRACTOR OF THE FORGUR THESE OF THE TOTAL ON THE WITER THE TANK OWNER TO THE PROPERTY OF THE TOTAL ON THE TOTAL ON THE WITER OF THE TOTAL ON THE WITER OF THE TOTAL ON THE WITER OF THE OWNER TO THE OWNER OF THE OWNER OF THE TOTAL OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OWNER OF THE OWNER OWNER

PROTECTIVE COATING:

INVEDIATELY AFTER WELDED STUDS HAVE COOLED TO AMBENT TEAMFEMATINE. AND PRICK TO INSTALLATION OF ATTACHMENTS, MUTS, OR HARDWARE, AMPLY LOUDID DELL PALMANIZING COMPOUND (ON OTHER CONTING MATEROL AMPROVED BY THE TANK OWNER) TO THE THREMED PORTION OF EACH STUD TO PREVENT CONSISSION PROPE TO AFFILICATION OF FIRSTS HAVIE.

- ALL SURFACE PREMANDION AND RECORDING OF STEEL SURFACES SHALL BE PERFORMED BY A PAINTING CONTRACTOR THAT HAS BEEN PRE-CILIAUPRD BY THE TANK OWER.

 ALL PAINTED SURFACES, APECIED BY WEIDING OPERATIONS SHALL BE REPAINTED TO MATCH ADJACENT DUSTING SURFACES. PAINTING SHALL INCLUDE COMING OF THE STRUCKS AND HARDWARE. BE SOUNDED CLEANED TO REMAINES, DIFFERENCES, PAINTING CONTRACTIONS STEEL STRUCTURES PAINTING COUNCIL SEPC-SPT SOUNDED CHARMED TO REMAINES, DIFFERENCES SHALL BE AS SULLAR SYSTEM AND ACCORDANCE WITH THE STEEL STRUCTURES PAINTING COUNCIL SEPC-SPT SOUNDED COUNCY PAINTING STEEL AND ACCORDANCE WITH THE STEEL STRUCTURES PAINTING COUNCIL SEPC-SPT SOUNDED COUNCY PAINTING STEEL AND ACCORDANCE WITH THE STEEL STRUCTURES PAINTING COUNCY PAINTING STEEL AND ACCORDANCE WITH THE SOUNDED STEEL SHALL BE AVAILED WITH 1 COAT SPOOL PAINTING STEEL AND ACCORDANCE WITH THE PAINTING WEIGHT COATHS OF THE TOWN OF THE PAINTING COUNCY PAINTING STEEL SHALL BE AVAILED WITH 1 COAT SPOOL PAINTING STEEL AND ACCORDANCE WITH THE PAINTING COUNCY PAINTING STEEL SHALL BE AVAILED WITH 1 COAT SPOOL PAINTING STEEL SHALL BE AVAILED WITH 1 COAT SPOOL PAINTING STEEL SHALL BE AVAILED WITH 1 COAT SPOOL PAINTING STEEL SHALL BE AVAILED WITH 1 COAT SPOOL PAINTING STEEL SHALL BE AVAILED WITH 1 COAT SPOOL PAINTING STEELS.

 COMPACTION SHALL SEED THAT COATHS SYSTEMS ARE COMPATIBLE WITH THE EXCENSE SHALL PRICE OF THE ASSURE THOROUGH WORKS OF PREASSURED THAT COATHS AND ACCORDANCES SHALL SHALL BE AVAILED AS SUFFECT AND AMBIENT TO PROPERTIES BEFORE THE SALL PRICE SHALL BE AVAILED AS SUFFECT ON AND ARROWS AND ARROWS OF THE SUFFECT ON NOTIFIED SHALL BE SHALL
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GENERAL NOTES

GN-7

SHEET NUMBER

Exhibit D Structural Analysis



Date: December 12, 2023

Structural Opinion Letter

Project Information:

Carrier:

Dish Wireless NJJER01152C

Site Name: Site Address:

11 Filbert Rd, Norwalk, Fairfield County, CT 06851

Site Type:

Water Tank Mounted Antennas

Tectonic Project Number:

10710.NJJER01152C, Revision 1

Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C., Inc. (Tectonic) is pleased to submit this "Structural Opinion Letter" to determine the structural integrity of the above-mentioned water tank structure. Tectonic performed a limited visual inspection from ground of the existing water tank on March 14, 2021. In addition, the following documents were assessed:

- Proposed Mount Analysis by Tectonic Engineering, dated October 31, 2023.
- RFDS by Dish Wireless, dates April 29, 2022.
- Lease Exhibit by Tectonic, dated April 11, 2022.
- Structural Analysis Report by On Air Engineering, LLC, dated March 20, 2020.

Based on our visual inspection and information provided, the tank currently supports one carrier on steel pipe masts connected to the legs at a RAD elevation of approximately hundred and fourteen feet (114'-0") above ground level. Dish Wireless is proposing to install new mounting frames supported on pipe masts in a similar fashion with three (3) new panel antennas, six (6) new RRH modules and three (3) new OVP units. The final configuration upon this installation will be as follows:

Mounting Level (ft)	Carrier Designation	Quantity	Equipment Manufacturer	Equipment Model	Number of Feed Lines	Feed Line Size (in)	Note
		3	Commscope	FFVV-65B-R2			-
11.4.0	Dish	3	Samsung	RF4450t-71A		1.6"	
114.0	Wireless	3	Samsung	RF4451d-70A	3	Hybrid	1
		3	Raycap	RDIDC-9181-PF-48			

Notes:

1) Proposed equipment to be mounted to new pipe frames designed in a separate analysis by Tectonic.



The existing water tank and foundation drawings were not made available at the time of this report; therefore, the tank has not been evaluated in detail. However, based on our review of the structural analysis report referenced above, the increase in the wind area and weight per antenna mount is minimal compared to the overall size and weight of the tank. The increase in vertical and lateral load is less than 10% and 5%, respectively. This is based on estimations from field notes and assumptions of the existing water tank structure. As per the Connecticut Building Code and 2021 IEBC, no further analysis is required. Therefore, we believe the existing water tank and supporting foundation are adequate to support the proposed Dish Wireless upgrade.

This structural opinion is based on a limited visual inspection from ground and information provided by the client. We assume that the water tank and its foundation were manufactured and constructed in accordance with the approved design drawings, the tank has been properly maintained in accordance with industry standards, and all existing members and connections are intact. Contractor shall field verify existing conditions and recommendations as noted on the construction drawings and notify the design engineer of any discrepancies prior to construction. Any further changes to the antenna and/or appurtenance configuration should be reviewed with respect to their effect on the structural loads prior to implementation.

We at Tectonic appreciate the opportunity of providing our continuing professional services to you and Dish Wireless. If you have any questions or need further assistance on this or any other projects please give us a call.

Respectfully submitted by:

Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C., Inc.

Edward N. Iamiceli, P.E. Managing Director - Structural

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Exhibit E Mount Analysis



Date: October 31, 2023

Proposed Mount Analysis Report

Project Information:

Carrier:

Site Number:

Site Address:

Site Type:

Dish Wireless NJJER01152C

11 Filbert Rd, Norwalk, Fairfield County, CT 06851

Pipe Mast on Water Tank

Tectonic Project Number:

10710.NJJER01152C, Revision 1

Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C., Inc. (Tectonic) is pleased to submit this "Mount Analysis Report" to determine the structural integrity of the above-mentioned proposed mount.

The purpose of the analysis is to determine acceptability of the mount stress level. Based on our analysis we have determined the mount stress level to be:

Mount:

Sufficient - 90 %

This analysis has been performed in accordance with the 2022 Connecticut State Building Code and the 2021 International Building Code based upon an ultimate 3-second gust wind speed of 130 mph per Appendix P as required for use in the ANSI/TIA-222-H-1-2019 Standard. Exposure Category B with a maximum topographic factor, Kzt, of 1.0 and Risk Category III were used in this analysis.

We at Tectonic appreciate the opportunity of providing our continuing professional services to you and Dish Wireless. If you have any questions or need further assistance on this or any other projects, please give us a call.

Structural analysis prepared by: Ian Marinaccio

Respectfully submitted by:

Tectonic Engineering Consultants, Geologists & Land Surveyors D.P.C., Inc.

Edward N. lamiceli, P.E.

Managing Director - Structural



TABLE OF CONTENTS

1) INTRODUCTION

2) ANALYSIS CRITERIA

Table 1 - Proposed Equipment Loading Information

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

- 3.1) Analysis Method
- 3.2) Assumptions

4) ANALYSIS RESULTS

Table 3 - Mount Component Stresses vs. Capacity 4.1) Result / Conclusions

5) APPENDIX A

Software Input Calculations

6) APPENDIX B

Wire Frame and Rendered Models

7) APPENDIX C

Software Analysis Output

8) APPENDIX D

Additional Calculations

1) INTRODUCTION

Analysis of the proposed antenna mounts due to the loading of the proposed antennas, equipment, and related appurtenances. The proposed mount is a sector frame on a pipe mast to be installed onto the water tank leg and kickback to the tank roof.

2) ANALYSIS CRITERIA

TIA-222 Revision:

TIA-222-H

Risk Category:

111

Wind Speed:

130 mph

Exposure Category: Topographic Factor:

Ice Thickness:

1.0 in

mph

Wind Speed with ice: Maintenance Wind Speed Load: 30 mph

Table 1 - Proposed Equipment Loading Information

Mounting Level (ft)	Carrier Designation	Number of Antennas	Antenna Manufacturer	Antenna Model	Proposed Mount Type	Note
		3	Commscope	FFVV-65B-R2		
114.0	Dish	3	Samsung	RF4450t-71A	(3) Pipe	_
114.0	Wireless	3	Samsung	RF4451d-70A	Masts	
		3	Raycap	RDIDC-9181-PF-48		

Notes: 1)

Proposed equipment to be installed on the proposed mounts.

2) Reserved equipment considered for design.

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

Document	Remarks	Dated
RFDS	Dish Wireless	04/29/2022
Lease Exhibit	Tectonic	04/11/2022
Field Notes & Photos	Tectonic	03/14/2022
Structural Analysis Report	On Air Engineering, LLC	03/20/2020
Water Tank Analysis Report	Tectonic	06/09/2022

3.1) Analysis Method

A tool internally developed, using Microsoft Excel, was used to calculate wind loading on all appurtenances and mount members. This information was then used in conjunction with another program, RISA-3D, which is a commercially available analysis software package, used to check the antenna mounting system and calculate member stresses for various loading cases. The selected output from the analysis is included in Appendices B and C.

3.2) Assumptions

- 1) The antenna mounting system was properly fabricated, installed, and maintained in good condition in accordance with its original design, TIA Standards, and/or manufacturer's
- 2) The configuration of antennas, mounts, and other appurtenances are as specified in Tables 1 and 2.

3) All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.

 Member length and sizes are based solely on the assembly drawing by CommScope, referenced above.

5) Steel grades have been assumed as follows, unless noted otherwise:

Channel, Solid Round, Angle, Plate

ASTM A36 (GR 36)

HSS (Rectangular)
Pipe

ASTM 500 (GR B-46) ASTM A53 (GR 35)

Connection Bolts

ASTM A325

This analysis may be affected if any assumptions are not valid or have been made in error. Tectonic should be notified to determine the effect on the structural integrity of the mount.

4) ANALYSIS RESULTS

Table 3 - Mount Component Stresses vs. Capacity

Notes	Component	Mount Centerline (ft)	% Capacity	Pass / Fail
ATTENDED TO THE STATE OF THE ST	Face Horizontal	and the manufacture of the state of the stat	90	Pass
1	Mount Pipe		69	Pass
	Mast Pipe	114.0	67	Pass
2	Mast Connection	·	66	Pass
2	Kickback Connection		45	Pass
	Structure Rating (max fr	om all components) =		90%

Notes:

- 1) See additional documentation in "Appendix C Analysis Output" for calculations supporting the % capacity consumed.
- 2) See additional documentation in "Appendix D Additional Calculations" for calculations supporting the % capacity consumed.

4.1) Result / Conclusions

The proposed mast pipe mount and connections have adequate capacity to support the proposed antenna and equipment installation as detailed in the following report.

This structural analysis only includes evaluation of the antenna mounts and not the water tank. The tank is to be evaluated under a separate structural analysis by Tectonic.

Contractor shall field verify existing conditions and recommendations as noted on the construction drawings and notify the design engineer of any discrepancies prior to construction. Any further changes to the antenna and/or appurtenance configuration should be reviewed with respect to their effect on structural loads prior to implementation.

APPENDIX A SOFTWARE INPUT CALCULATIONS



Job No.: 10710.NJJER01152C, Rev 1

Sheet No.:

Calculated By:

1 IM of Date :

4 10/31/23

Checked By:

Date :

WIND AND ICE LOADS PER TIA-222-H

		1152C, Rev 1	
Project Name	NUJERO1452C		
Location	11 Filbert Rd, N	Norwalk, CT-06851	
County	Pairfield		

Tower Type	₩T ;	Water Tank
Structure Height	127.5	ft
Supporting Str Height	.0.	ft Or ground mounted
Risk Category		Substantial risk
Exposure Category	C:	Open terrain
Topo Category		Flat or rolling terrain
Height of crest		
Mean elevation (zs)	119.46	ft

Basic Wind Speed		
Without ice	130	mph
With ice	50	mph
Maintenance Wind	30	mph
 lce thickness	1.00	in

Importance Fa	ctor
ice thickness	1.15
Earthquake	1.25
Supporting Da	ıta:
Ks	1.00
Ke	1.00
K _c K _t	1.00
K_{t}	N/A
f	N/A
Zg	900
α	9.5
$K_{z,min}$	0.85
K _d	0.95
G_{h}	1.00

Height	z (ft)	114
	Kh	N/A
	Kzt	1.00
	Kz	1.30
	Kiz	1,13
Wind Pressure, qz	No Ice	53.24
(psf)	With Ice	7.88
(psi)	Maintenance	2.84
(tiz)	Ice Thk	1.41
Appurtenances (qzGh)	No Ice With Ice Maintenance	53.24 7.88 2.84

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													O	Calculated By Checked By	Ψ	Date:	52/16/01
							Equipment Information	nent Ir	iforma	tion							
												[']		ı			0.07
													Shielding factor, Ka	_	60	Section 15.6	0.01
WIND WITHOUT ICE																	
Antenna Configuration	(E) or (P)	Ž.	(£)	Length or Diameter (ft)	Width (in)	Depth (in)	Flat or Cylindrical?	Antenna (Ca) _N	Antenna (Ca)r	Face Normal (As)N (ft^2)	Windward Face Normal (CaAa)N (ff^2)	Side Face (Aa)T (ft^2)	Wind ward Side Face (CaAa)T (ft^2)	Normal Antenna Wind Load Each (lb)	Transverse Antenna Wind Load Each (lb)	Antenna Weight (Ib)	Total Weight (lb)
EFWY-REBERS	5000 CC d (000 SC)	The state of the s	114	6.00	19.61	7.76	一 一	1.25	1.48	9.80	33.12	3.88	15.45	2885	274	71.9	215.6
RE44501-71A	100 A	· 《 E E E E E E	114	1.38	15.00	11.02	F. V. F. Flat	1.20	1.20	1.72	5.57	1,26	4,09	- 66		94.6	283.7
RF4451D-70A	1	3	114	1.25	15.00	8.90	Flats	1,20	1.20	1.56	5,06	0.93	3.00	.06	53	61.3	183.9
RDIDC-9181-PF-48			114	1.58	14.39	8.15	· · · · · · · · · · · · · · · · · · ·	1,20	120	1.90		1,07	3.48	109	25	21.8	65.5
									<u> </u>	∑(CaAA)N	49.90	∑(CaAA)T	26.02			_	(49
WIND WITH ICE		Ice Thk ≍	1.41	.E													
Antenna Configuration	(E) or (P)	Ž	(#)	Length or Dlameter	Width	Depth	Flat or	Antenna	Antenna	Face	Windward Face Normal	Side	Windward Side Face	Normal Antenna Wind Load	Transverse Antenna Wind	ᇙᅗ	Ice Weight
		Î		€	£	Ê	Cylindrical?	Z(S)	(Ca)T	(Aa)N (ff^2)	(ft^2)	(Ae)T (ff^2)	(ft^2)	Each (lb)	(q _I)	(ff*2)	
EFAAZ65B_R2	۵	3	114	623	22.44	10.59	Cylindrical	0.72	0.72	11,65	22.61	5.50	10.67	-59	28	27.4	180.6
RF4450T-71A	۵	6	114	1.61	17.83	13.85	Cylindrical	0.7	0.7	2.39	4.52	1.86	3.51	12	6	6.0	39.4
RF4451D-70A	4	3	114	1.49	17.83	11.73	Cylindrical	0.7	0.7	2,21	4.17	1.45	2.75	A. C. T. T. S. S.	2.00	5.0	32.9
RDIDC-9181-PF-48	а.	3	114	1.82	17.22	10.98	Cylindrical	0.7	0.7	2.61	- 1	1.66	3.14	13	8	5.9	39.2
									_	Σ(CaAA)N	36.23	`∑(CaAA)T	20.07			-	767
MAIN LENANCE WIND														Managh			
Antenna Configuration	(E) or (P)	ary	z (ft)	Length or Diameter (ft)	Width (In)	Depth (In)	Flat or Cylindrical?	Amtenna (Ca)n	Antenna (Ca)⊤	Face Normal (Aa)N (ft^2)	Windward Face Normal (CaAs)N (ff^2)	Side Face (As)T (ff^2)	Windward Side Face (CaAa)T (ffv2)	Antenna Wind Load Each	Transverse Antenna Wind Load Each (Ib)		
		ç	777	5	10.61	77.6	Fat	1.25	1.48	9.80	33.12	3.88	15.45	: -31<	152.5°		·
77-909-VV-11	L. (3	;	20.5	100	1 60	T T	120	1 20	1.72	5.57	1.26	4,09	5	****		
RF44501-71A	1. (ς,	4 4	1.36	25.00	200	į tei	12	1.20	1.56	5.06	0.93	3.00		3.		
RF4451D-70A	J. (9	4 4	1.69	20.00	20.00	i i	2 5	1.20	1.90	6.15	1.07	3.48	9	3, 1		
RDIDC-9181-PF-48	2.	9	1 4	1.38	14.33	9	- Idi	2		Y(CaAA)N	49.90) (CaAA)I	26.02				
									`								

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ン言ううり									Calc	Calculated By	M	Date:	10/31/23
これののでは、そのこのないなが、まないまなからない。									Ö	Checked By		Date:	
				Moun	Mounting System Information	em Inforr	nation						
Mount Center Line:	114 #	#						_	Reduction Factor	Factor	Section D. Control	Sec	Section 16 6
										7	100	3	-
1	7.7	Length	Projected	Depth	Flat or	Force	Projected	Wind	lce Weight	Ice	Projected Area with	Wind	Maintenance Wind Force
Mount Part	Quantity	€	(ir)	(ii)	Cylindrical?	Coefficient Area (ff^2)	Area (ff^2)	(lbs/ft)	Area	(lbs/ft)	Ice (ff^2)	(lbs/ft)	(lbs/ff)
Face Heazontal 25 STD	2.3	. 7.00	2.88	2.88	Cylindrical	1.2	3.62	13.8	10.53	5.0	7.19	4.0	1.5
Mount Pipe - 2.0.STD	3		6.00	2.38	2:38 Cylindrical	1.2	3.85	11.4	11.19	1.4.1	8.43	3.7	1.3
	建筑建设工程	23.00	4.50	4.50	Cylindrical	1.2	9.32	21.6	27.08	7.8	15.17	52	1.9
Kickback - L4x4x3/8	*2	00.8	4,00	4.00	FIGTER AND	2	9.60	31.9	21.33	8.8	16.39	8.1	2.9

Tectonic 1

Job No. 10710.NJJER01152C, Rev 1

Sheet No. Calculated By

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of Date:

Date:

4 10/31/23

Checked By

Seismic Check

Tower Information

Geographic Information

Tower Type:
Structure Helght
Supporting Structure Helght
Mount Height

WT 127,5 ft 0 ft 114 ſŧŧ

Clty: State: County: Latitude:

Norwalk Connecticut Fairfield a

#41/118626 Longitude:

73.396752

Seismic Information

Risk Category	101
mportance Factor	1.25
Site Soil Classificaiton	D
S_s	0.238
S ₁	0.056
Fa	1.6
F _V	2.4
S _{DS}	0.254
S _{D1}	0.090
-	Note a real of Artist Art

TIA Table 2-10

https://asce7hazardtool.online/

(Table 2-11, interpolation allowed) (Table 2-12, Interpolation allowed)

Section 2.7.5

As 3,00 Cs 0,16

Section 16.7 Section 16.7 & 2.7,8

0.03

Equivalent Lateral Force Procedure

Equipment (Discrete Appurtenances)

Antenna Configuration	(E) or (P)	Qty	z (ft)	Antenna Weight (lb)	Shear Vs= Cs*W (lbs)	Vert. Seismic load (Ev, lbs)	Horz. Seismic load (Eh, Ibs)
FFVV-65B-R2	Р	3	114	72	11	11	34
RF4450T-71A	P	3	114	95	15	14	45
RF4451D-70A	Р	3	114	61	10	9	29
RDIDC-9181-PF-48	Р	3	114	22	3	3	10
		··-					
<u> </u>			L	ì			1

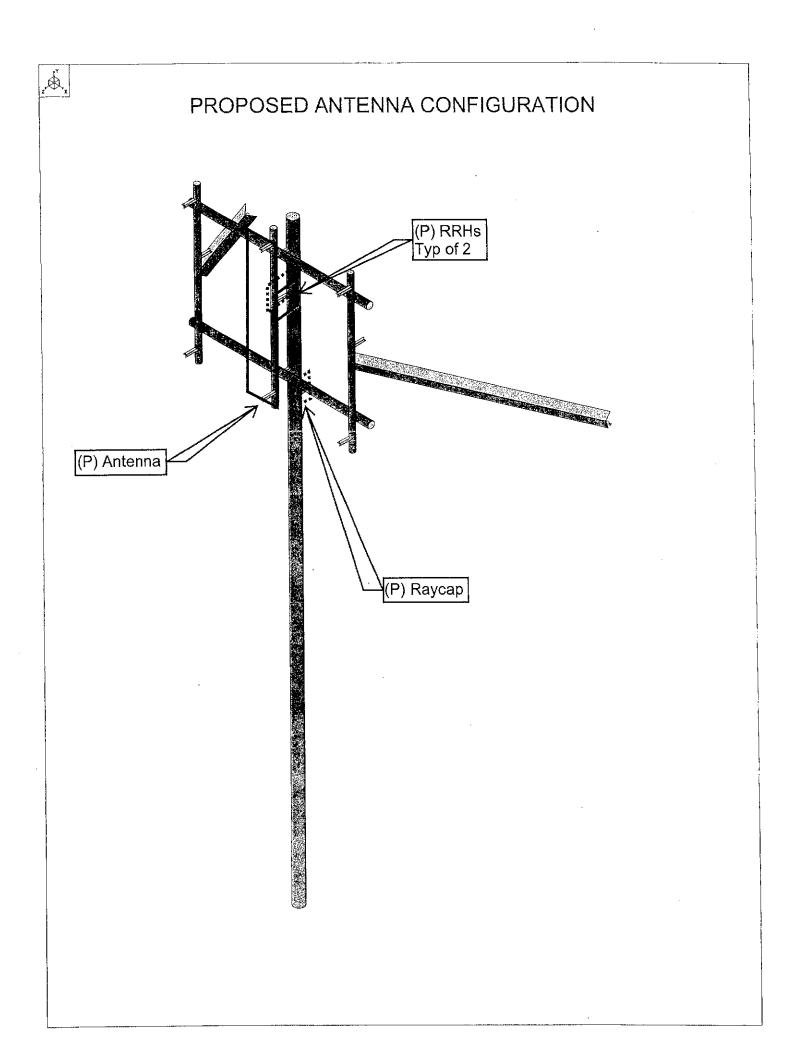
Mounting System (Discrete Appurtenances)

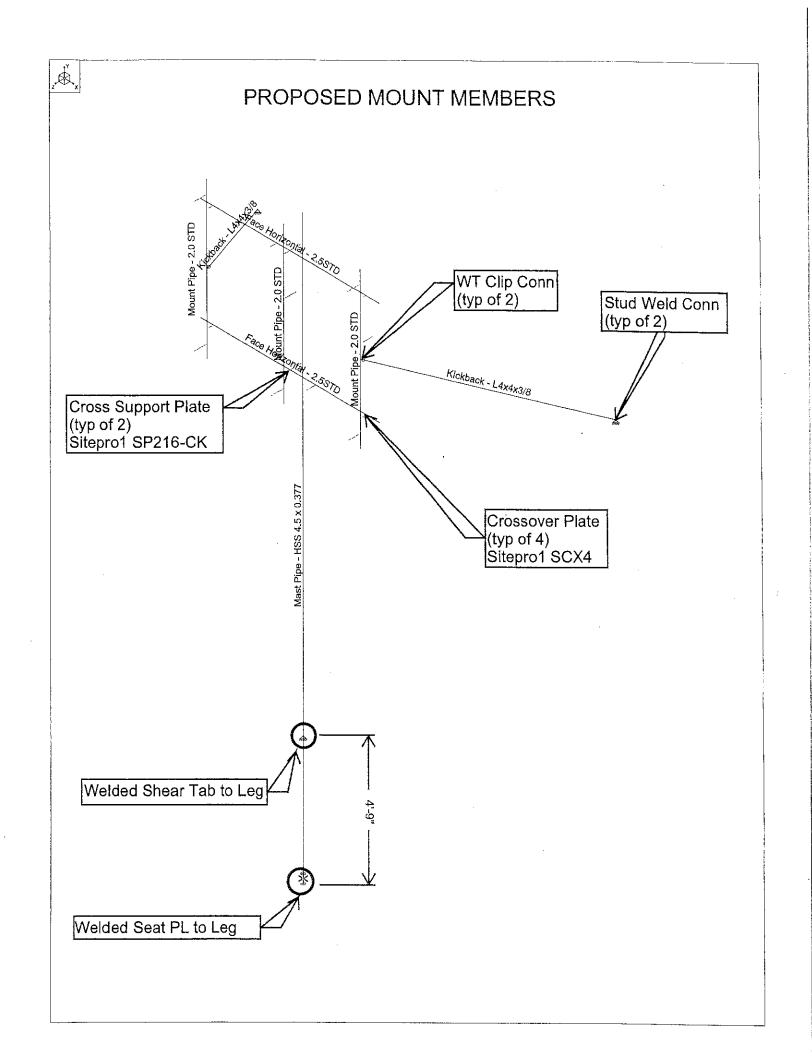
industring Oydians (B)di	si oto / tppartoria; tooo/	
Ev =0.2Sps * D	0.0508 x D	"D" is the dead weight of the mount members.
Eh= rho * Qe	0.16 x W	"W" total weight of structure above ground

Notes:

1. Wind loads govern over Seismic loads

APPENDIX B WIRE FRAME AND RENDERED MODELS

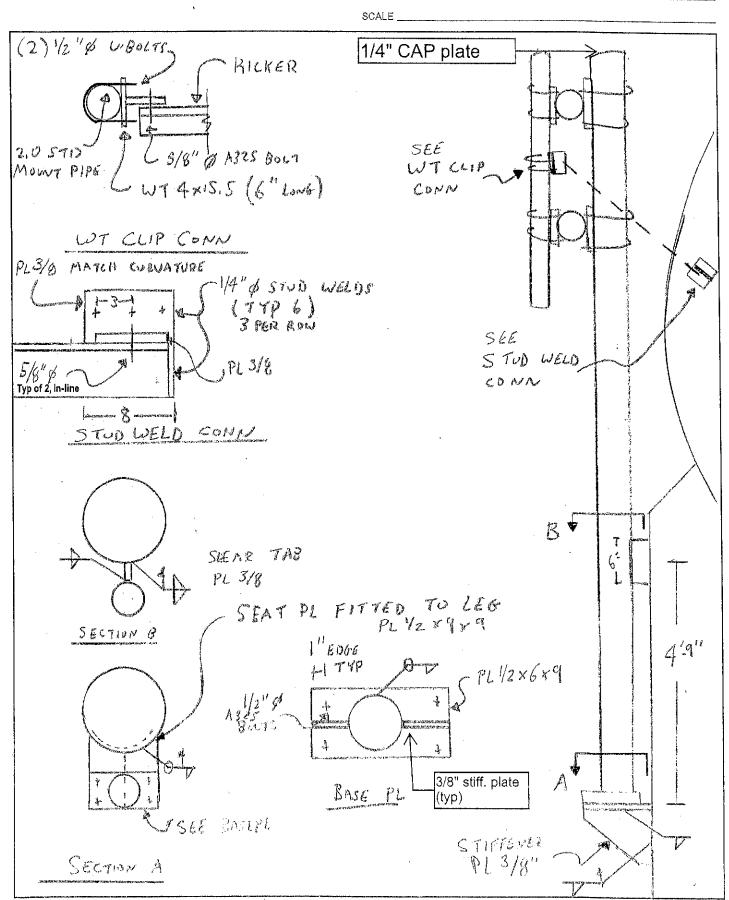


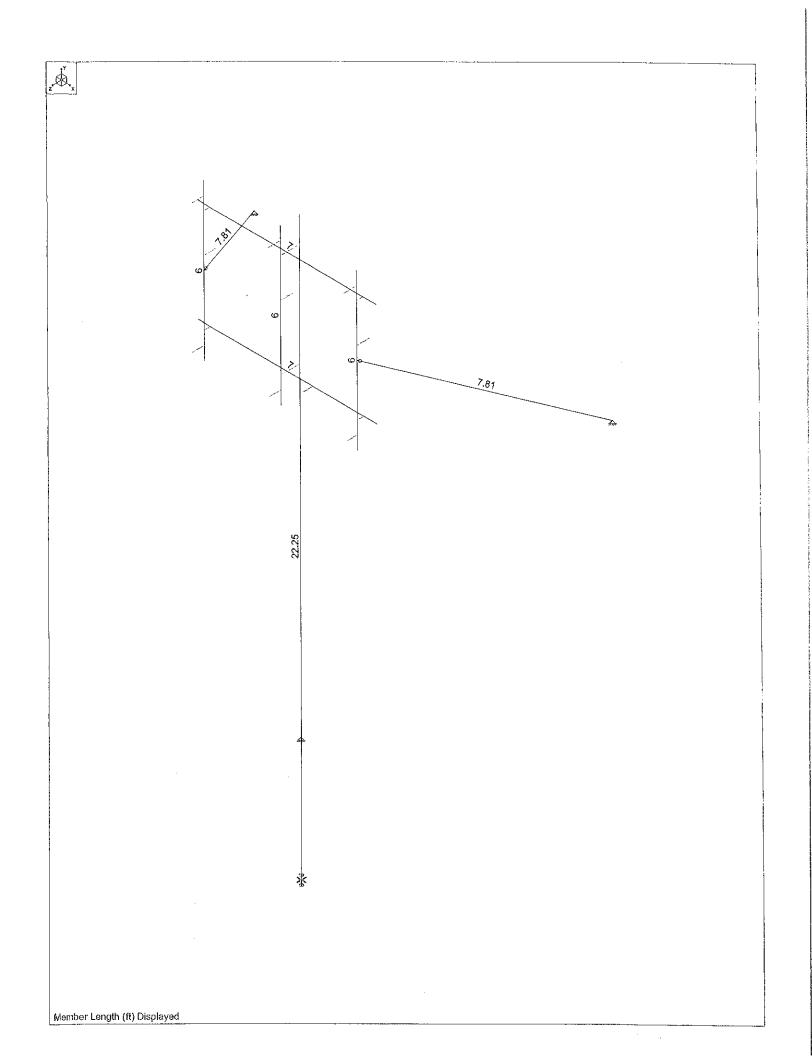


Tectonic '

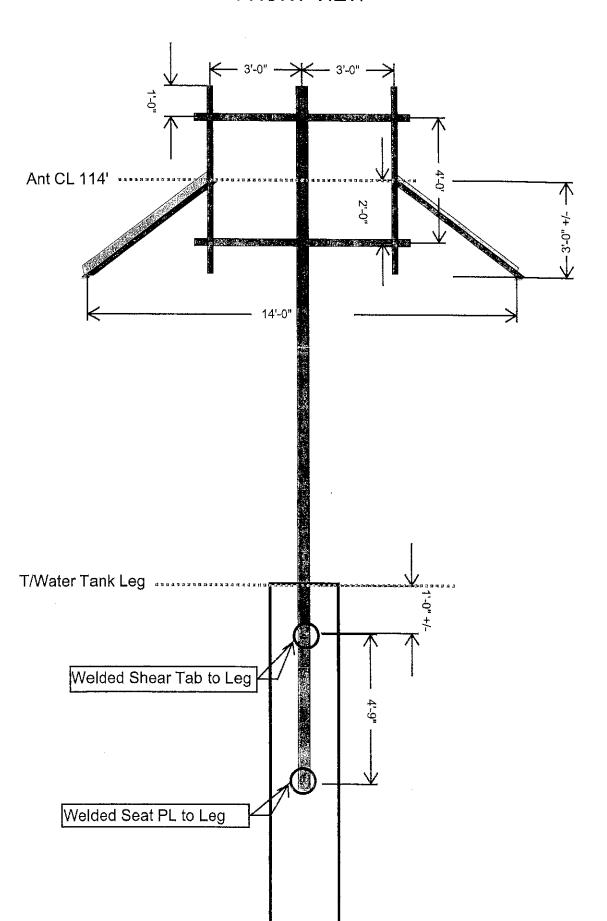
tectonicengineering.com (800) 829-6531

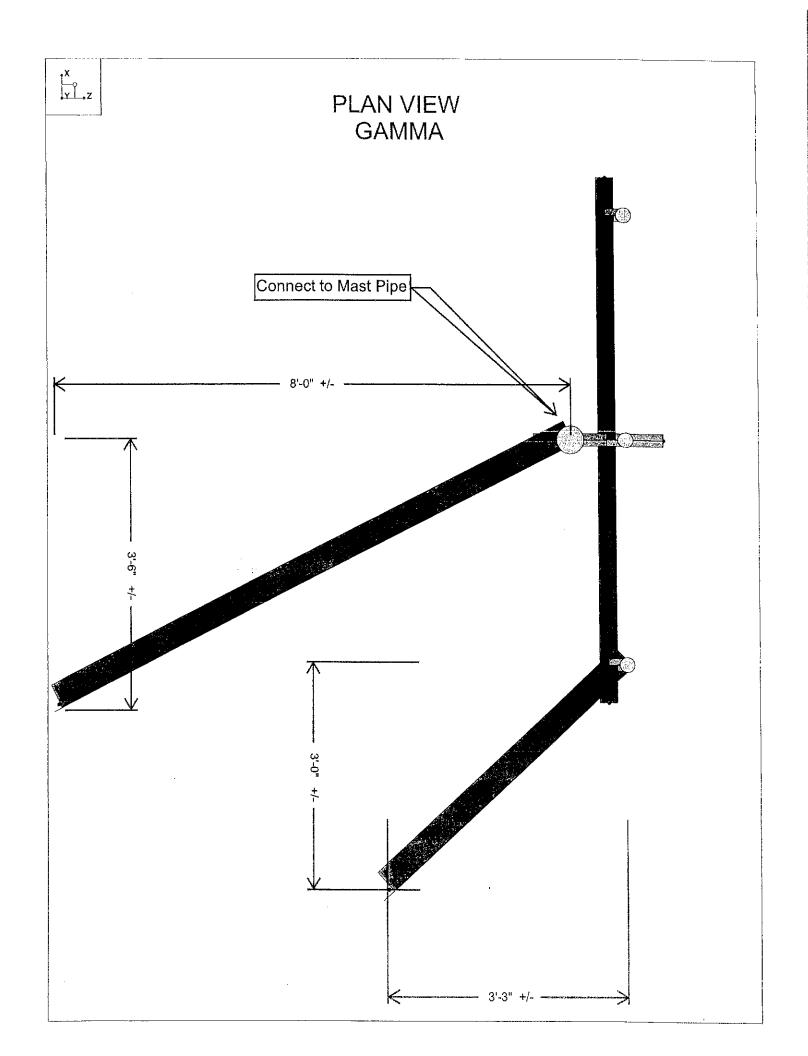
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CHECKED BY		DATE	



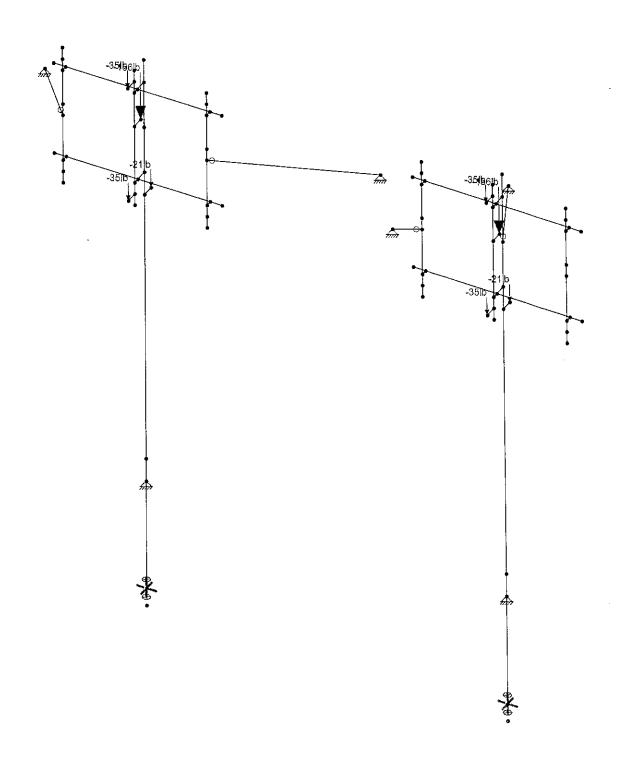


FRONT VIEW

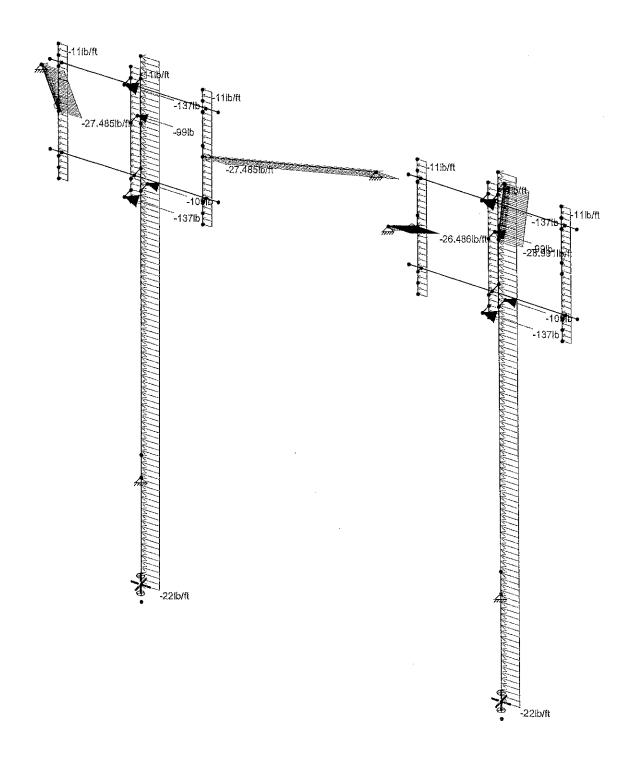




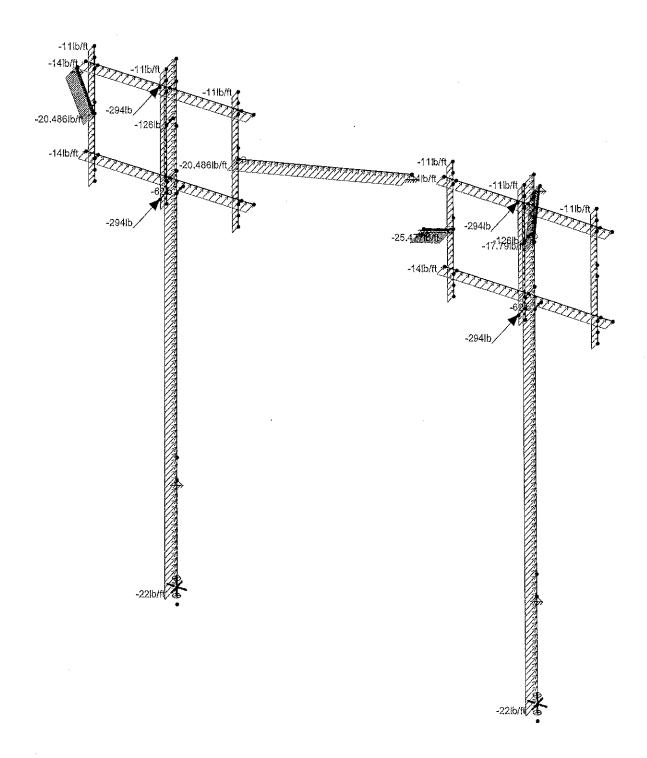




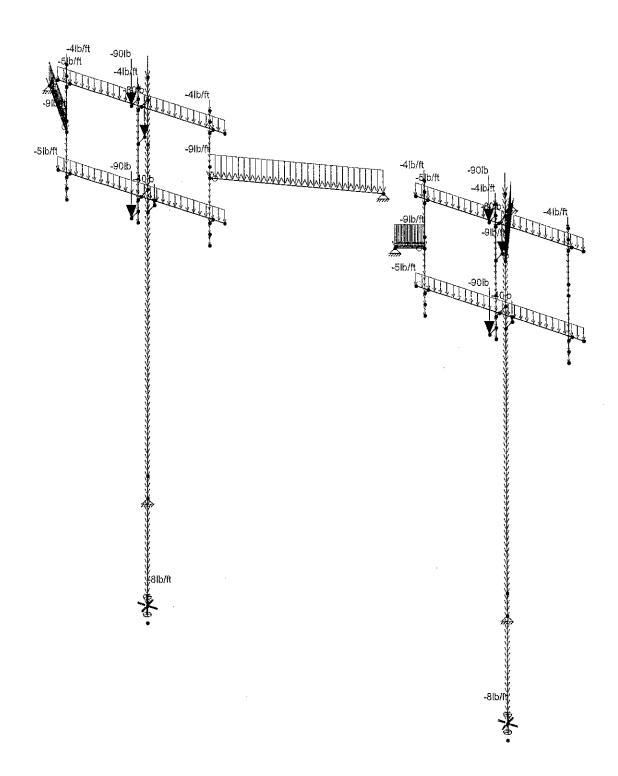




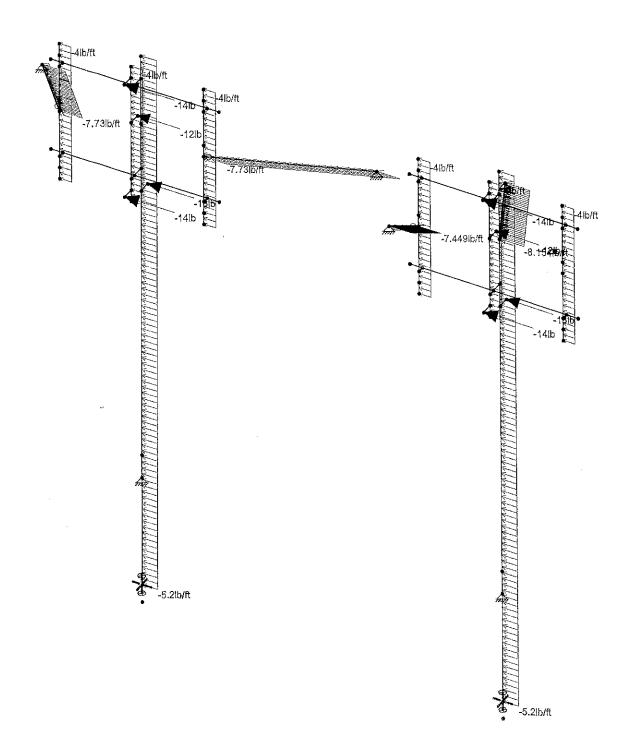




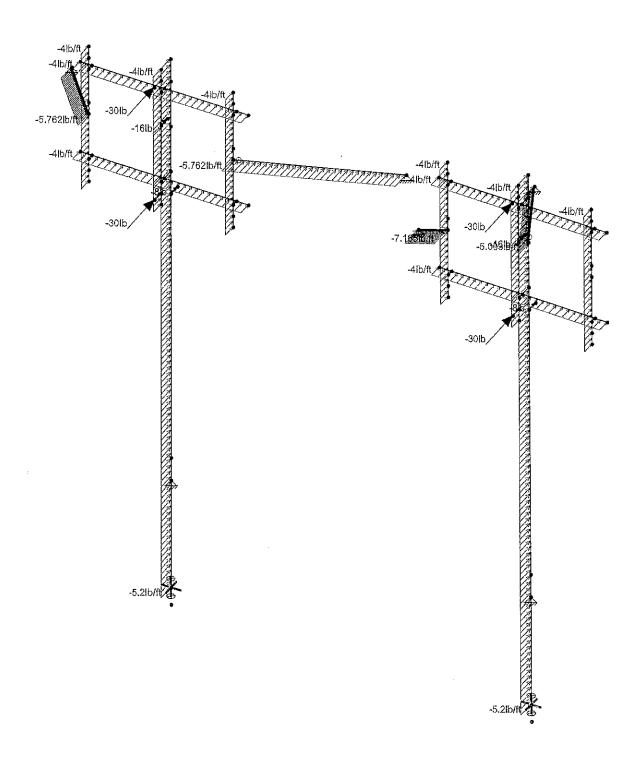




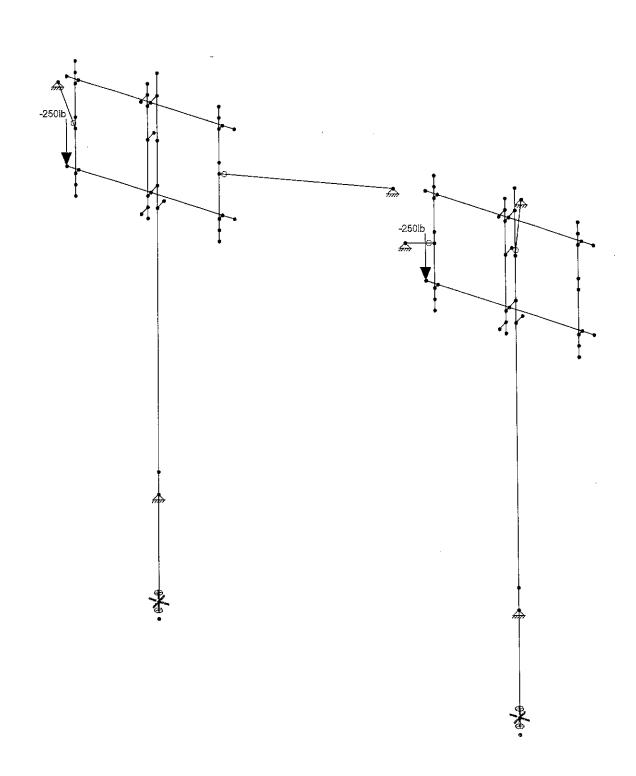




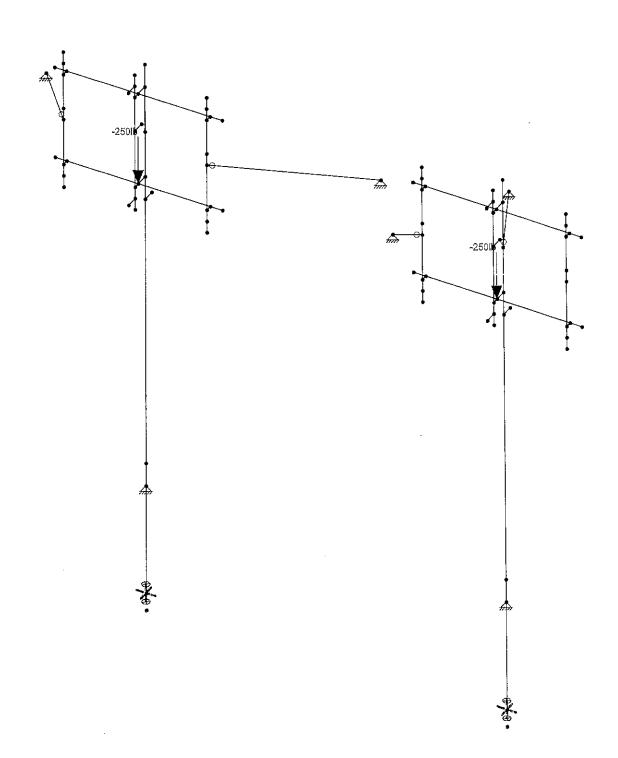




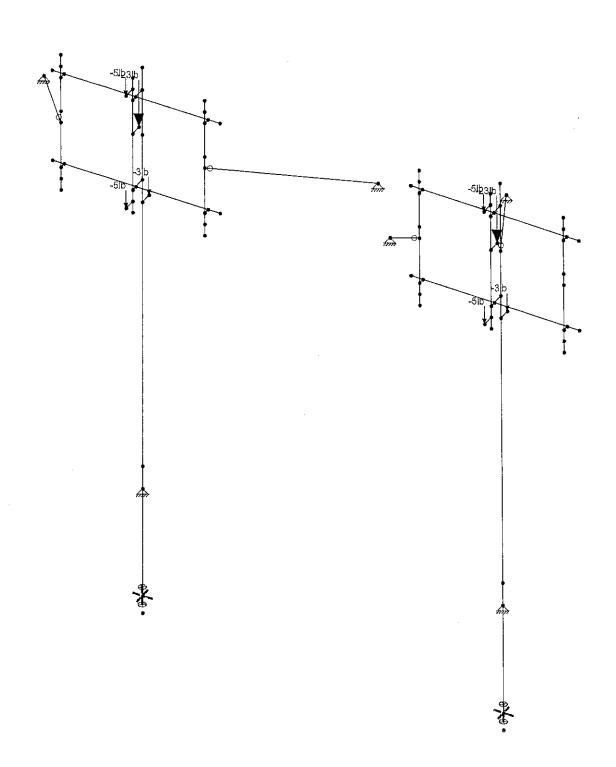




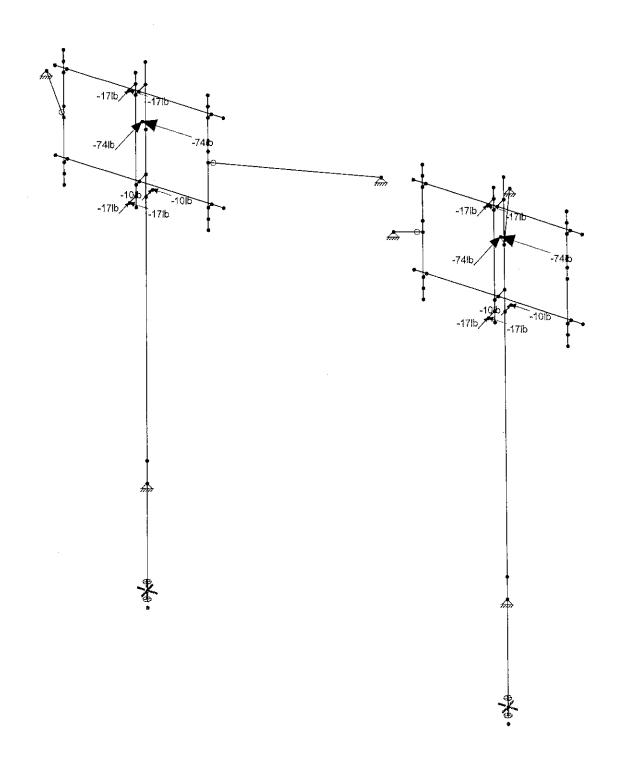








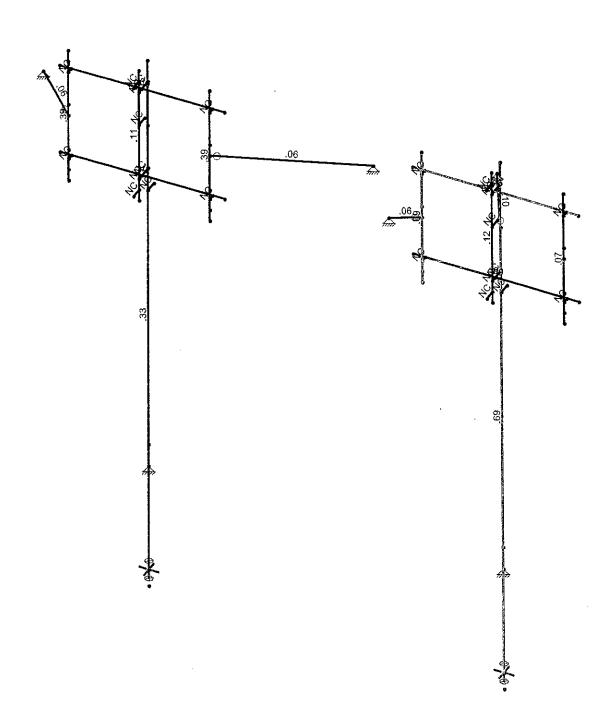




APPENDIX C SOFTWARE ANALYSIS OUTPUT



Code Check (Env) No Calo > 1.0 .90-1.0 .75-.90





Company : Tectonic Engineering
Designer : Ian Marinaccio
Job Number : 10710.NJJER01152C, Rev 1
Model Name : PROPOSED ANTENNA MOUNT

Checked By:____

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (\1E5 F)	Density[k/	Yield[ksi]	Rv	Fu[ksi]	Rt
11	A992	29000	11154	.3	.65	.49	50	1.1	65	11
2	A36 Gr.36	29000	11154	3.	65	:49 v	36	1.5	58	12
3	A572 Gr.50	29000	11154	3	.65	.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	3	.65	.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	.3	.65	.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	.3	.65	49	35	1.6	60	1.2
7	A1085	29000	11154	.3	.65	.49	50	1.4	65	1.3

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	DesignA [in2]	l lyy [inlzz [inJ [in4]
1	Face Horizontal - 2.5STD	PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical 1.61	1.45 1.45 2.89
2	Mount Pipe - 2.0 STD	PIPE_2.0	Column	Pipe	A53 Gr.B	Typical 1.02	
3	Mast Pipe - HSS 4.5 x 0.377	HSS4.500X0,337	Column	Pipe	A500 Gr.B R.,	Typical 4.12	1
4	Kickback - L4x4x3/8	L4X4X6	Beam	Single Angle	A36 Gr.36	Typical 2,86	4.32 4.32 .141

Basic Load Cases

BLC Description	Category	X Gra	Y Gra	Z Grav	Joint	Point	Distri	Area(Me	Surface(Plate/
1 DL	DL.		-1.05		10			2 = 41,51,2 = 111	
2 WLX	WLX			w fair ar	10	45.52	16		
3 WLZ	WLZ				10		16		
DLI	OL1	NA S		707	10		16		100 100
5 WLXi	WLX				10		16		
6 WLZ	WLZ	14.3	14 mm 1 m		10	A Section (A)	16	7.	
7 WLX (MAINT)	WL+X								<u> </u>
8 WLZ (MAINT)	WL+Z				1.7		1 4 (1)		
9 Lm1	OL1		- "-					1	
10 LV1	OL5				2	3, 4			
11 Lv2	OL6				2				
12 ELy	ELY	100	.051	3 2 2 3	10			2 - W. C.	
13 ELh	ELZ	16		16	20			<u> </u>	

Load Combinations

Description	So	PDelta	SRSS	BLC)Fa	BLC	Factor	BLC	Factor	В	Fact	.B	Fa	в	Fa	В	Fac				
_1 **LRFD**		Υ											1		,		1 49.	ΠŢ	"	*****	ΪΪ
2 1.4D	Yes	Υ		1	1.4						8. Î.M.			- 7	1,197		1	11		-	Ħ
3 1.2D+(WLX+WLZ) - 0 Deg	Yes	Υ		1	1.2	2	1	3												1	
4 1.2D+(WLX+WLZ) - 30 Deg	Yes	Υ		1	1.2	2	,866	3	.5	ļ. ,	7		- 1	1		1.74	. //		10	1	Н
5 1.2D+(WLX+WLZ) - 60 Deg	Yes	Υ		_1	1.2	2	,5	3	.866	Γ								11	\top	T	П
6 1.2D+(WLX+WLZ) - 90 Deg	Yes	Y		1	1.2	2		3	1.		1 1 1 1 1 1			11.1		7.7	7.		+		
7 1.2D+(WLX+WLZ) - 120 Deg	Yes	Y		1	1.2	2	5	3	.866					-	<u> </u>			11	\pm	T	Ħ
8 1.2D+(WLX+WLZ) - 150 Deg	Yes	Υ		1	1.2	2	866	3	.5		Maryles II						5.0		11		
9 1.2D+(WLX+WLZ) - 180 Deg	Yes	Υ		_1	1.2	2	-1	3						_	-			11	\top		Ħ
10 1.2D+(WLX+WLZ) - 210 Deg	Yes	Y		1	1.2	2	866	3	5				:		_		1	\Box	17		Ħ
11 1.2D+(WLX+WLZ) - 240 Deg	Yes	Υ		1	1.2	2	5	3	866					_				Ħ	7		Ħ
12 1.2D+(WLX+WLZ) - 270 Deg	Yes	Υ		1.	1.2	2		3	⊸ 1			· ·					<u> </u>	Ħ		T	Ħ
13 1.2D+(WLX+WLZ) - 300 Deg	Yes	Υ		1	1.2	2	,5	3	866								·	††	\top	\sqcap	Н
14 1.2D+(WLX+WLZ) - 330 Deg	Yes	Y	•	1	1.2	2	.866	3	5			1	. * *					\top	\top		Ħ
15 **Wind Load with Ice**		Υ							Ī					_				77	1	П	\forall
16 1.2D+1.0Di+1.0(WLXi+WLZi) - 0 .		Y		1	1.2	4	1	5	1	6		1	1					\top	1	+	Ħ
17 1.2D+1.0Di+1.0(WLXi+WLZi) - 3	. Yes	Υ		1	1.2	4	1	5	.866	6	.5	İ					-	\top	17	\sqcap	\forall
18 1.2D+1.0Di+1.0(WLXi+WLZi) - 6	Yes!	Υ		1	1.2	4	1	5	.5	6	.866					i		11			\Box



Company Designer Job Number Model Name

: Tectonic Engineering : Ian Marlnaccio : 10710.NJJER01152C, Rev 1 : PROPOSED ANTENNA MOUNT

Checked By:____

Load Combinations (Continued)

Description	So	PDelta	SRSS	BLC	Fa	BLC	Factor	BLC	Factor	В	Fact	В	Fa	B	Fa	В	Fac				
19 1.2D+1.0Di+1.0(WLXi+WLZi) - 9,,	. Yes	Υ		1	1,2	4	1	5		6	1	!	l	Ī						ĬT.	Ì
20 1.2D+1,0DI+1.0(WLXI+WLZI) - 1.	. Yes	Y		7	1,2	4 "	11	5	5	6	.866	1/4	44,739 34,445		7.77 mil.						1
21 1.2D+1.0Di+1.0(WLXi+WLZi) - 1	. Yes	Υ		1	1.2	4	1	5	866		.5			1							7
22 1.2D+1.0DI+1.0(WLXI+WLZI) - 1.	. Yes	Y		•	1.2	4	1.	5	1	6		142.5		Å.J	i Taya wa Takasak				3 3	17	Ž
23 1.2D+1.0Di+1.0(WLXi+WLZi) - 2	. Yes	Υ		1	1.2	4	1	5	866	6	5									П	7
24 1.2D+1.0Di+1.0(WLXI+WLZI) - 2.	. Yes	Y.		1	1.2	4	11.5	5	5	6	866	40		N	10.00		1 1 1 1	П			G.
25 1.2D+1.0Di+1.0(WLXi+WLZi) - 2.	. Yes			1	1.2	4	1	5	Ĭ	6	-1			7				П		\Box	7
26 1,2D+1.0Di+1.0(WLXi+WLZi) - 3.	Yes	Y		1	1.2	.4′		5	.5	6	- 866			9 E	13.77				17		4
27 1.2D+1.0Di+1.0(WLXi+WLZi) - 3.				1	1.2	4	1	5	.866	6	-,5			_					П	T	ì
28 ***Maintenance Load** Location	(i j/:	Y		F - 60	13.3	4740	45 07	.15				1,50		100	Sec.	(3)		1		\Box	1
29 1.2D+1.5Lm1+1.0(WLX+WLZ, S.	_	Y		1	1.2	9	1.5	7	1	8	! i	l	1								٦
30 1.2D+1.5Lm1+1.0(WLX+WLZ, S.		Y		1	1.2	. 9	1.5	7	.87	8	.5					10.4	148704		3		7
31 1,2D+1,5Lm1+1,0(WLX+WLZ, S.		Y	1	1	1.2	9	1.5	7	.5	8	.87										~
32 1.2D+1.5Lm1+1.0(WLX+WLZ, S.		Y		4	1.2	_ 9	1.5	7	0.000	8		10 / 44 10 / 10 m				1 17 6		\prod		П	
33 1.2D+1.5Lm1+1.0(WLX+WLZ, S.		Υ		1	1.2	9	1.5	7	5	8										1	7
34 1,2D+1.5Lm1+1.0(WLX+WLZ, S.		Υ		1	1.2	9	15	7	-,87	8	5				\	1		П			- T
35 1.2D+1.5Lm1+1.0(WLX+WLZ, S.		Y		1	1.2	9	1.5	7	-1	8	<u> </u>		<u> </u>					П	T		Ï
36 1.2D+1.5Lm1+1.0(WLX+WLZ, S.		Y.	1141	1	1.2	9	1.5	7	87	8	5			100		- 40	2 1	П	\prod	П	
37 1.2D+1.5Lm1+1.0(WLX+WLZ, S.		Y		1	1.2	9	1.5	7	5	8	87		<u>.</u> .					П	\prod		7
.38 1,2D+1,5Lm1+1,0(WLX+WLZ, S.		Y		1.	1.2	9	1.5	7	1	8	1.41	13.5	10.0								
39 1.2D+1.5Lm1+1.0(WLX+WLZ, S.		Y		1	1,2	9	1.5	7	.5	8	87		ļ		1	I		\prod	\prod	1-1	П
40 1.2D+1.5Lm1+1.0(WLX+WLZ, S.		Υ		1	1.2	9	1.5	7	.87	8	5				-			T	\prod	\Box	П
41 ***Man Vertical Load***		Y								L			<u> </u>			I		T	\prod		П
42 1.2D+1.5Lv1	Yes	Y		11	1,2	10	1.5										100	П			П
43 1.2D+1.5Lv2	Yes		<u> </u>	1	1.2	11	1.5											T	T		П
44 **Seismic Load**		Y			1,37	30								L	1 11			П			
45 1.2D+ELv+ELh	Yes	Y	<u> </u>	1	1.2	12	1	13	1			Щ	J				!	\prod	\prod		

Envelope Joint Reactions

	Joint		X [lb]	LC	Y lib1	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	10	Mプ D #1	1.0
1	N2	max	2805,107	14	1762.03	23	1191.209	7	0	45	0	45	()	45
2		min	-2314.971	8	312,899	4	-1282.026	13	0	2	0	2	0	2
3	N6	max	1424.731	8	64.121	27	835.041	14	0	45	3.559	8	0	45
" 4		min	-1798.705	14	43.295	45	-677,448	7	0	2	-5.169	14	0	2
5	N33	max	1102,16	14	1220.365	14	1504.009	14	0	45	0	45	0	45
6	V 43 Y 1	min	-1274.354	8	-1091.605	8	-1006.847	8	0	2	0	2	0	2
7	N34	max	1119.603	7	<u>958,87</u>	7	2100.809	7	0	45	0	45	0.	45
8		min	-979.042	12	<u>-951.834</u>	13	-2456.636	13_	_0	2	0	2	0	2
9	N56	max	1529.772	3	1836,104	25	416.125	6	0	45	0	45	0	45
10		min	-1529.775	9	198,908	6	-316.662	12	0.	2	0	2	0	2
11	N60	max	867.996	9	64.121	27	62,875	12	0	45	3.292	9	0	45
12		min	- <u>867.993</u>	3	43.295	45	-105.849	6	0	2	-3,292	3	0	2
13	N87	max	669,702	_5	518.763	5	1030.17	5	0	45	0	45	0	45
14		min	<i>-</i> 713.027	11	-438.195	11	-1027.253	11	0	2	0	2	0	2
15	N88	max	713.028	13	518.767	7	1030.196	7	0	45	0	45	0	45
_16		min	-669.7	7	-438.198	13	-1027.267	13	0	2	0	2	0	2
17	Totals:	max	3205.44	3_	3718.551	25	3978.132	6_						7
18		min	<u>-3205.417</u>	9	2195.206	6	-3978.177	12						

Envelope AISC 15th(360-16): LRFD Steel Code Checks

	Member	Shape	Code Ch., I	Loc[ft]	LC	Shear C	.Loc[. Dir	LC	phi*Pnc [lb]	phi*Pnt	.,phi <u>*Mn y-y [k</u>	phi*M Ean
1	M5	PIPE 2.5	.901	3.5	14	.244	3.5		14	33961.614	50715	3.596	3.596!H1-1b
2	M4	PIPE 2.5	.719	3.5	14	.188	3.5		14	33961.614	50715	3.596	3.596H1-1b
3	M24A	PIPE 2.0	.691	3	14	.137	2.5		14	20866.733	32130	1.872	1.872H1-1b



Company : Tectonic Engineering
Designer : Ian Marinaccio
Job Number : 10710.NJJER01152C, Rev 1
Model Name : PROPOSED ANTENNA MOUNT

Checked By:____

Envelope AISC 15th(360-16): LRFD Steel Code Checks (Continued)

	Member	Shape	Code Ch		LC	Shear C.,	.Loc[Dir	_LC	phi*Pnc [lb]	phi*Pnt	.phi*Mn y-v [k.	.phi*M	Ean
4	M1	HSS4.500X0.337	.686	4.896	14	384	4.651		_14 :	25766.114	155736	17.325	17.325	H3-6
5	M31	PIPE 2.5	.421	3,5	14	.127	6,49		8	33961.614	50715		3.596	
6	M51	PIPE 2.0	391	.3	13	070	3		13	20866.733	32130	1.872	1.872	
7	M50	PIPE 2.0	.391	3	11	.070	3		11	20866.733	32130	1.872	1.872	H1-1b
8	M30	PIPE_2.5	.355	3.5	13	√115	6.49		13	33961.614	50715	3.596	3.596	.H1-1b
9	M27A	HSS4.500X0.337	.331	4.896	9	.237	4.651		9	25766,114	155736	17.325		H3-6
ી0	M14	PIPE_2.0	121	ં.5 ં	13	/a/113∂	5	7 11. 12. 12. 13. N	14	20866,733	32130	1.872	1.872	:H1-1b
11	M38	PIPE 2.0	.115	1	12	.077	5		Ø	20866.733	32130	1.872	1.872 1	1 H1-1b
12	M18	L4X4X6	101	4.25	7	_004	8.326	Z	14	38976,223	92664	4.398	8,549	H2-1
13	M25A	PIPE 2.0	.073	5	14	035	1		_14	20866.733	32130	1.872		H1-1b
14	M39	L4X4X6	.062	3.986	3 :	.003	0	·Z	14	43248 126	92664	4.398	8.678	. H2-1
15	M40	L4X4X6	.061	3,905	3	.003	0	Z	10	43248.126	92664	4,398		H2-1
16	M17	L4X4X6	.057	2.711	14	.002	0	Ż	14	65135.384	92664	4.398		H2-1

APPENDIX D ADDITIONAL CALCULATIONS



Calculated By:

IM

Date: 10/31/23

Checked By:

Date:

Connection Details								
Bolt Details								
Bolt Quantity =	4							
Bolt Diameter =	∜0.5 in							
Vertical Spacing =	<i>≱</i> 4 in							
Horizontal Spacing =	7 in							
Bolt Grade =	A325							
Bolt F_{ur} if "Other" =	N/A ksi							

Loading Details							
Seated Plate - N6 - Env.							
Shear, X = 1.799	k						
Shear, Z = 0.835	k						
Tension, Y = 0	k						
Mx = 0	k-ft						
Mz = 0	k-ft						
Torsion, My = 5,169	k-ft						

1 - Tensile Capacity

$$R_{nt} = F_{nt}A_b$$

$$\Phi = \begin{array}{c|c} 0.75 & \text{ksi} \\ F_{nt} = \begin{array}{c|c} 90 & \text{ksi} \\ A_b = \begin{array}{c|c} 0.19635 & \text{in}^2 \\ \Phi R_{nt} = \begin{array}{c|c} 13.25 & \text{k} \\ T_{max} = \begin{array}{c|c} 0.00 & \text{k} \\ \end{array}$$

AISC [Eqn. J3-1]

2 - Shear Capacity

$$R_{nv} = F_{nv}A_b$$

$$\Phi = \begin{array}{c|c} 0.75 \\ F_{nv} = 54 \\ A_b = 0.19635 \\ \Phi R_{nv} = 7.95 \\ V_{max} = 4.34 \\ k \end{array}$$

ΦRnt > Tmax



AISC [Eqn. J3-1]

AISC [Table J3.2]

$\Phi Rnv > V max$



-0%

3 - Combined Tension and Shear Capacity

$$R'_{nt} = F'_{nt}A_b \hspace{1cm} \text{AISC [Eqn. J3-2]}$$

$$F'_{nt} = 1.3F_{nt} - \frac{F_{nt}}{\phi F_{nv}} f_{rv} \leq F_{nt} \hspace{1cm} \text{AISC [Eqn. J3-3a]}$$

$$\Phi = \begin{array}{c} 0.75 \\ F'_{nt} = \begin{array}{c} 68 \\ A_b = \begin{array}{c} 0.19635 \\ O.19635 \end{array} \text{in}^2 \\ \Phi R'_{nt} = \begin{array}{c} 9.99 \\ O.00 \end{array} \text{k} \hspace{1cm} \Phi R'_{nt} > T_{max} = \begin{array}{c} 0.00 \\ O.00 \end{array} \text{k}$$



Calculated By:

IM

Date: 10/31/23

Checked By:

Date:

Connection Details									
Weld Details									
Weld Type	Fillet								
Electrodes	70 ¥XX								
Size of Weld =	0.1875 in								
Pipe Diameter =	4.50 in								
Pipe Thickness =	0.347 in								
Plate Details									
Height/Width =	6.00 in								
Thickness =	<i>≈ 0.</i> 75 ± in								
$F_y =$	36 . ksi								

4 - Weld Capacity

$$F_{nw} = 0.6F_{EXX}$$

$$\Phi = 0.75$$

$$\Phi F_{nw} = 31.50$$
 ksi
$$f_{V,max} = 20.663$$
 ksi
$$f_{b,max} = 0.00$$
 ksi

AISC [Table J2.5]

Min(ΦFnw,ΦFnbm) > √(fv,max+fm,max)

§66%

<u>ok</u>

5 - Plate Capacity

ΦFbyy > Fb

- 0%



Calculated By:

IM

Date: 10/31/23

Checked By:

Date:

Connection Details								
Weld Details								
Weld Type								
Electrodes	70	XX						
Size of Weld =	0,1875	in						
Height =	\$ 6.00	in						
Width =	0,50	in						
, , ,								
Plate Details	- :							
Height/Width =	.6.00	in						
Thickness =	0.5	in						
$F_y =$	36	k si						

Loading Details								
Shear Tab - Node N2 - Env.								
Shear, X = 2.80	5 ® k							
Shear, Y = 176	2 k							
Tension, Z = 1.28	2 ŧ k							
Mx = 0	k-ft							
My = 0	k-ft							
Torsion, Mz = 0	k-ft							

1- Weld Capacity

$$F_{nw} = 0.6 F_{EXX}$$
 $\Phi = 0.75$
 $\Phi F_{nw} = 31.50$ ksi
 $f_{V,max} = 2.061$ ksi
 $f_{b,max} = 0.00$ ksi

AISC [Table J2.5]

Min(ΦFnw,ΦFnbm) > √(fv,max+fm,max) 7% --

2 - Plate Capacity

$$\Phi = 0.9$$
 $\Phi F_{byy} = 32.40$ ksi
 $f_b = 15.44$ ksi

ΦFbyy > Fb

48%

<u>OK</u>



Calculated By:

IM

Date: 10/31/23

Checked By:

Date:

Proposed Stud Weld Check

Design connection per AISC Steel Manual [LRFD].

Connection Details

2 steel 2	tua wela inf	orma
Quantity =	6 . 1	
Diameter =	• • 025	in
Threaded Area =	₩0.0317	in ²
Vertical Spacing =	6	in
Horizontal Spacing =	67.7	in
Grade =	A29/A108	
F _{nt} =	45.8	ksi
$F_{nv} =$	27.5	ksi
A CALL CL. L. L. C. L.		-

Loading Details

Kicker - N33/34 - Env. Shear, X = 274 k

Shear, Y = 1.22

Tension, Z = 2457 k $Mx = \sqrt[3]{0}$ k-ft

My = k-ft

Mz = 0 k-ft

[Table J3.2] [Table J3.2]

Note: For Nelson 1/4" Standard Stud

1 - Tensile Capacity

$$\phi R_{nt} = F_{nt}A_b$$
 $\phi = \begin{bmatrix} 0.75 \\ F_{nt} = 46 \\ A_b = 0.0317 \\ \phi R_{nt} = 1.09 \\ T_{max} = 0.41 \end{bmatrix}$ ksi

[Eqn. J3-1]

Rnt > Tmax

38%

2 - Shear Capacity

$$\phi R_{nv} = F_{nv}A_b$$

$$\phi = \begin{bmatrix} 0.75 \\ F_{nv} = 27 \\ A_b = 0.0317 \\ \phi R_{nv} = 0.65 \\ V_{max} = 0.29 \end{bmatrix} ksi$$

[Eqn. J3-1]

Rnv > Vmax

45%

<u>OK</u>

3 - Combined Tension and Shear Capacity

$$\phi R'_{nt} = F'_{nt} A_b$$

$$F'_{nt} = 1.3 F_{nt} - \frac{F_{nt}}{\phi F_{nv}} f_{rv} \le F_{nt}$$

φ =	0.75	
F' _{nt} =	39	ksi
$A_b =$	0.0317	in²
ρR' _{nt} =	0.92	k
T _{max} =	0,41	k

[Eqn. J3-2]

R'nt > Tmax

· 44%

<u>ОК</u>

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:

NJJER01152C

Site Address:

11 Filbert Road

Norwalk, CT

N 41.118467

Longitude:

LATITUDE:

W 73.396694

STRUCTURE TYPE:

WATER TOWER

REPORT date:

November 6, 2023

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
Antenna and Transmission Data
Compliance Analysis
Compliance Conclusion
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 water tower located at 11 Filbert Road in Norwalk, CT. DISH refers to the antenna site by the code "NJJER01152C", 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 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 6.6898 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 14 times below the FCC limit for safe, continuous exposure of the general public. DISH guidelines, and consistent with FCC guidance on rooftop compliance, it is recommended that three Caution signs and NOC Information signs be installed at the base of the water tower.
- The results of the calculations, along with the proposed mitigation, combine to satisfy the FCC requirements and associated guidelines on RF compliance at street level around the site. 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:

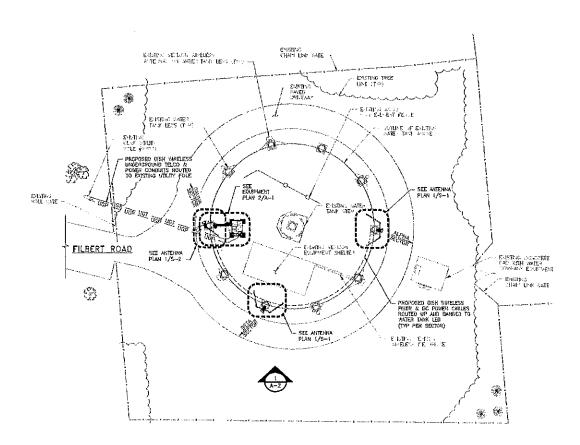
- relevant technical data on the proposed DISH antenna operations at the site, as well as on the existing Verizon Wireless antenna operations;
- a description of the applicable FCC mathematical model for calculating RF levels, and application of the relevant technical data to that model;
- analysis of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

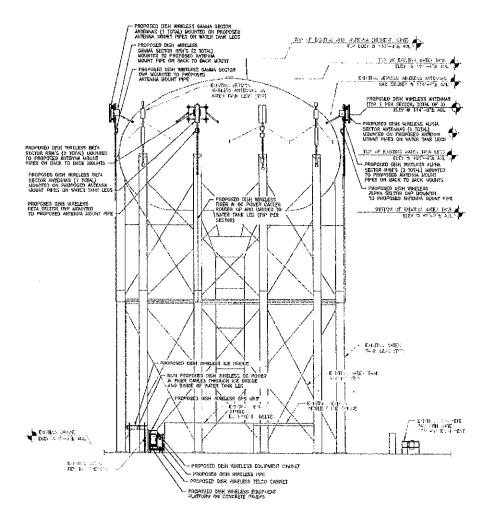
Antenna and Transmission Data

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	Ariterra Manufecturer	Antenna Model 13	Тура	Freq .	Ant Dim (ft.)	Total Linput Power (watts)	Total ERP (watts)	Z AGL (TI)	Ant Gain (dBd)	BW 1	22 m2 a	(P)	MOT
0	DISH	JMA Wireless	MX08FRO665-21	Panel	600	6	120	1637	114.0	11.46	68	60	2	0
0	DISH	JMA Wireless	MX08FRO665-21	Panel	2000	6	160	6011	114.0	16.16	62	60	2	0
0	DIŞH	JMA Wireless	MX08FRO665-21	Panel	2100	6	160	7567	114.0	16.66	64	60	2	0
0	DISH	JMA Wireless	MX08FRO665-21	Panel	600	6	120	1637	114.0	11.46	68	160	2	0
0	DISH	JMA Wireless	MX08FRO665-21	Panel	2000	6	160	6011	114.0	16.16	62	160	2	0
0	DISH	JMA Wireless	MX08FRO665-21	Panel	2100	6	160	7567	114.0	16.66	64	160	2	0
0	DISH	JMA Wireless	MX08FRO665-21	Panel	600	6	120	1637	114.0	11.46	68	260	2	0
0	DISH -	JMA Wireless	MX08FRO665-21	Panel	2000	6	160	6011	114.0	16.16	62	260	2	0
•	DISH	JMA Wireless	MX08FRO665-21	Panel	2100	6	160	7567	114.0	16.66	64	260	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.

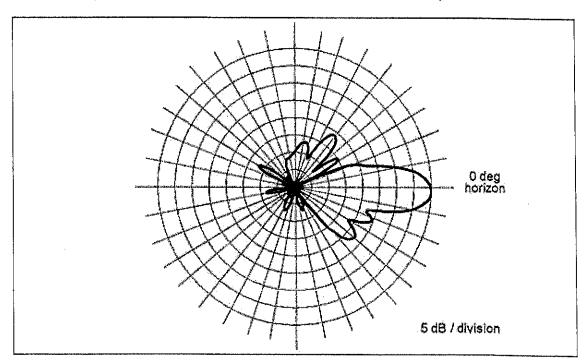


Figure 1. JMA Wireless MX08FRO665-21-600 MHz Vertical-plane Pattern

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	Amerine Manufecturer	PAntenna V	Type	Freq (MHz)	Total ERP : (watts)	'Ant. Gein Ne (dBd)	Azimuth
Verlzon 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
Verlzon 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 to 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:

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

where

MPE% = RF level, expressed as a percentage of the MPE limit applicable to continuous exposure of the general public
 factor to convert the raw result to a percentage
 maximum number of RF channels per sector

TxPower = maximum transmitter power per channel, in milliwatts

10 (Gmax-Vdisc/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 (2² = 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.

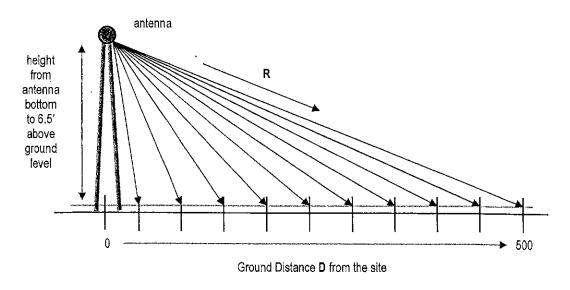


Figure 2. Street-level MPE% Calculation Geometry

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.

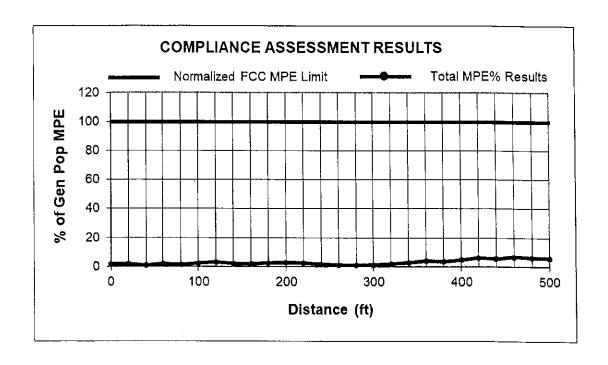
The net result of these assumptions is to intentionally and significantly overstate the calculated RF levels relative to the levels that will actually result from the antenna operations – and the purpose of this conservatism is to allow very "safe-side" conclusions about compliance.

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.

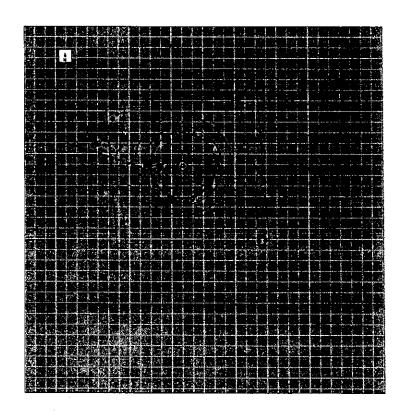
Ground Distance (ft)	DISH 600 MHz MPE%	DISH 2000 MHz MPE%	DISH 2100 MHz MPE%	Verizon Wireless MPE%	Total MPE%
NO PERSONAL RESIDENCE OF THE PROPERTY OF THE PERSON OF THE	Newscarp - And Strategies - Strategies - State to set the	A CONTRACTOR OF THE PROPERTY O		4 5 4 7 6	And an extension per A London September 1 and 1 and 1
0	0.0446	0.0021	0.0003	1.5472	1.5942
20	0.0868	0.0037	0.0049	1.5970	1.6924
40	0.1806	0.0134	0.0391	0.6082	0.8413
60	0.0775	0.0381	0.1137	1.4636	1.6929
80	0.0457	0.2129	0.0441	0.9657	1.2684
100	0.2055	0.1779	0.3717	1.4734	2.2285
120	0.2864	0.2456	0.2953	2.1245	2.9518
140	0.1667	0.0574	0.1863	1.6117	2.0221
160	0.0750	0.0248	0.0043	1.6034	1.7075
180	0.0357	0.0040	0.0627	2.3275	2.4299
200	0.0279	0.0789	0.0321	2.5197	2.6586
220	0.0210	0.0734	0.1249	2.1329	2.3522
240	0.0116	0.0139	0,0723	1.3814	1,4792
260	0.0100	0.0851	0.0236	0.8907	1.0094
280	0.0172	0.1101	0.0663	0.6858	0.8794
300	0.0323	0.0931	0.1056	0.9021	1.1331
320	0.0568	0.0513	0.1051	1.5201	1,7333
340	0.0915	0.0163	0.0696	2.4270	2.6044
360	0.1360	0.0043	0.0307	3.6501	3,8211
380	0.1906	0.0041	0.0096	3.2981	3.5024
400	0.2533	0.0033	0.0031	4.3674	4.6271
420	0.3220	0.0066	0.0020	5.7197	6.0503
440	0.2949	0.0060	0.0018	5.2342	5.5369
460	0.3623	0.0235	0.0090	6.2950	6.6898
480	0.3340	0.0217	0.0083	5,8007	6.1647
500	0.3980	0.0505	0.0296	5.3366	5.8147

As indicated, the maximum calculated overall RF level is 6.6898 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 reproduced below.



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 6.6898 percent of the FCC general population 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 water tower.

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.
- 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 Collins

Chief Technical Officer

Pinnacle Telecom Group, LLC

11/6/23

Date

Appendix A. Documents Used to Prepare the Analysis

RFDS: RFDS-NJJER01152C-Preliminary-20220429-v.1_20220429111517

CD: NJJER01152C_PrelimCD_20230105085829

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.

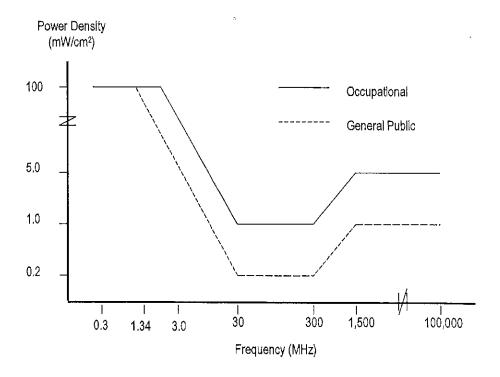
The specified continuous exposure MPE limits are based on known variation of human body susceptibility in different frequency ranges, and a Specific Absorption Rate (SAR) of 4 watts per kilogram, which is universally considered to accurately represent human capacity to dissipate incident RF energy (in 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/cm²)	General Public Exposure (mW/cm²)		
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.

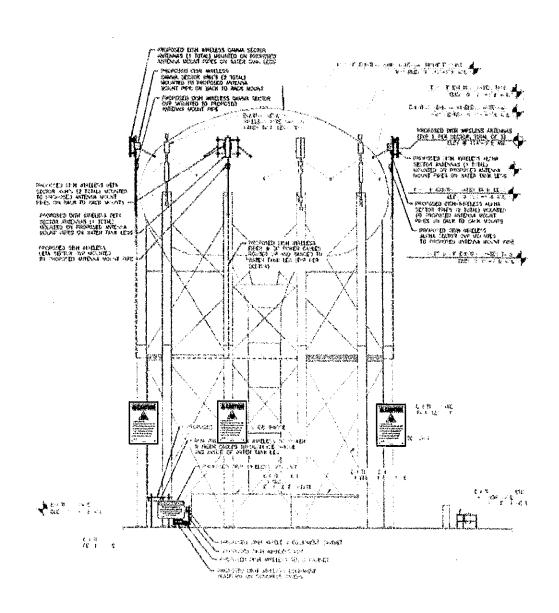
FCC Report and Order, Notice of Proposed Rulemaking, Memorandum Opinion and Order (FCC 19-126), Proposed Changes in the Commission's Rules Regarding Human Exposure to Radiofrequency Electromagnetic Fields; Reassessment of Federal Communications Commission Radiofrequency Exposure Limits and Policies, 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		NOTICE ((v))	Entering of the Control of Contro	Transaction for the state of th	MEGHRATION No. 1 Annual Con- months of the Con- mon		
	GUIDELINES	NOTICE	CAUTION	WARNING	NOC INFO	BARRIER/MARKER	
Access Point(s)	0	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

Synopsis:	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 Mark New Joseph Company (2)
	York, New Jersey, Connecticut, Pennsylvania and more than
or every service and the service of	40 other states, as well as by the FCC
Education:	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
Current Responsibilities:	Leads all PTG staff work involving RF safety and FCC
	compliance, microwave and satellite system engineering, and
	consulting on wireless technology and regulation
Prior Experience:	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
0	System Design, 1972-77
Specific RF Safety /	• Involved in RF exposure matters since 1972
Compliance Experience:	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
Other Background:	
Culer Dackground.	 Author, Microwave System Engineering (AT&T, 1974) Co-author and executive editor, A Guide to New
	Technologies and Services (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 D Lease Agreement

LEASE AGREEMENT

(Water Tank Installation)

THIS LEASE AGREEMENT ("Lease") is made this ______ day of _____, 2023 by and between the FIRST TAXING DISTRICT OF THE CITY OF NORWALK, a Connecticut Municipal Corporation, having an address at 12 New Canaan Avenue, Norwalk, Connecticut 06851 ("District"), and DISH WIRELESS L.L.C., a Colorado limited liability company, with its principal offices at 9601 S. Meridian Boulevard, Englewood, Colorado 80112 ("Lessee"). The District and Lessee are at times collectively referred to hereinafter as the "Parties" or individually as the "Party."

RECITALS

WHEREAS, District is the owner of certain real property located at 11 Filbert Road, in the City of Norwalk, County of Fairfield and State of Connecticut more particularly described and/or depicted in **Exhibit A** attached hereto and made a part hereof (the "District Property"), which District Property is improved with a water tank structure ("Water Tank"); and

WHEREAS, Lessee desires to lease a portion of the ground space adjacent to the Water Tank and license certain portions of the exterior of the Water Tank for the development of a wireless communications facility (a "Wireless Facility"); and

WHEREAS, District is willing to enter into a lease with Lessee, subject to the terms and conditions set forth herein.

NOW THEREFORE, the Parties hereto, in consideration of the mutual covenants contained herein and intending to be legally bound hereby, agree as follows:

- 1. <u>LEASE OF PREMISES</u>; <u>LICENSE OF WATER TANK SPACE</u>. District hereby leases to Lessee, and Lessee leases from District, approximately 100 square feet of ground space located adjacent to the Water Tank and within a fence-enclosed area on the District Property (the "<u>Equipment Compound</u>"), as more particularly shown on <u>Exhibit B</u> attached hereto and made a part hereof ("<u>Ground Space</u>"), for the installation, operation, and maintenance of wireless communications equipment associated with a Wireless Facility operated by Lessee ("<u>Ground Equipment</u>"). The foregoing leasehold is granted and demised to Lessee together with:
- (a) a license to install, operate and maintain: (i) pipe-mounted antennas (the "Antennas") on the exterior perimeter surface of the Water Tank at a centerline height of one-hundred and fourteen (114) feet +/- above ground level with a minimum of five (5) feet in each vertical direction of separation from adjacent occupants on the Water Tank (the "Antenna Space"); and (ii) cables, wires, conduits, poles, and/or pipes and related connectors and anchors (collectively, the "Cables") running between the Antennas, the Ground Equipment, and that proposed point of connection to public utilities at the telco connection point identified on Exhibit B on the District Property (the "Cable Space"). The Antennas, Cables, Antenna Space and Cable Space are more particularly shown on Exhibit B attached hereto, and the space occupied by such Antenna Space and Cable Space as shown therein are hereinafter referred to as the "License Areas". If the existing utility sources located on the District Property are insufficient for Lessee's permitted use, the District agrees to grant Lessee and/or the applicable third party utility provider

Site Number: NJJER01152C

the right, at Lessee's sole cost and expense, to install such utilities on, over and/or under the District Property as is reasonably necessary for Lessee's permitted use, provided that the location of such utilities shall be approved in advance by the District, such approval not to be unreasonably withheld, conditioned, or delayed and such approval not to be contingent on any additional rent or other consideration; provided, however: (i) the parties acknowledge and agree that the District may require the location of such utilities to be configured in a manner that maximizes further development of the Equipment Compound, or other considerations reasonably relevant to the District's business, and that location required by the District as a condition of approval may be determined independently of relevant economic or cost factors or of convenience to the Lessee or its contractors or utility provider(s); and (ii) the District reserves the right to condition any further rights granted to such parties upon the right or ability of the District to relocate such utilities. connections, and/or the Cable Space as needed from time to time at no cost to Lessee, as may be necessary or desirable to facilitate further development within the Equipment Compound (or equivalent alternative facilities) and/or in furtherance of the District's business. The Parties agree and acknowledge that for any relocation of such utilities pursuant to this Section 1(a), the Parties shall work together in good faith to coordinate such relocation, including coordination with Lessee to facilitate the use of a Temporary Coverage Solution as Lessee reasonably determines is necessary.

(b) the non-exclusive right to access the Ground Space, over the District Property, from the nearest public right-of-way, identified as 11 Filbert Road, Norwalk, Connecticut, by foot or by motor vehicle, 24 hours per day, 7 days per week and at no additional cost or expense to Lessee, for the installation, maintenance and repair of the Wireless Facility, provided such access may not unreasonably interfere with, compromise, reduce in capacity, or otherwise disrupt: (i) any of the District's utility connections or (ii) the District's use and operation of the Water Tank or the District Property (the foregoing, collectively, "Access Rights").

The Ground Space is hereinafter sometimes referred to as the "Leasehold Area". The Leasehold Area and the License Areas are hereinafter referred to collectively as the "Premises". The Ground Equipment, the Antennas and the Cables are sometimes hereinafter referred to collectively as the "Equipment".

Notwithstanding the fact that this Lessee's rights to the License Areas is a license and that a license is normally revocable at will by the grantor, the parties hereto agree that the license granted by this Lease for the License Areas is not revocable at will and that this Lease can only be terminated in accordance with the provisions of this Lease or otherwise as ordered by a court of competent jurisdiction.

2. TERM.

(a) This Lease shall be effective as of the date of execution by both Parties (the "Effective Date") and be for an initial term of five (5) years ("Initial Term"). The Initial Term shall commence (the "Commencement Date") on the earlier to occur of the first (1st) day of the month following the date of either: (i) commencement of Lessee's installation of the Wireless Facility; or (ii) the two hundred seventieth (270th) calendar day following the Effective Date. Notwithstanding anything stated herein, with respect to (i) in the immediately preceding sentence, the Parties acknowledge that Lessee's preparation of the Premises to accommodate electric,

2

telephone, fiber and other utilities for Lessee's installation shall not constitute Lessee's installation of its communications equipment nor shall it trigger the Commencement Date.

- (b) The term of the Lease shall automatically renew for four (4) additional periods of five (5) years each (each, an "Extended Torm") provided Lessee is not then in default hereunder, unless Lessee elects, in Lessee's sole and absolute discretion, not to renew the Lease at the end of the then-current term by giving the District written notice at least one hundred eighty days (180) days prior to the expiration of the Initial Term or the current Extended Term, as applicable.
- (c) The Initial Term, together with any Extended Term(s), shall be collectively referred to herein as the "Term."
- PERMITTED USE. Lessee shall use the Premises for the purpose of constructing. 3. maintaining, repairing, and operating a Wireless Facility ("Permitted Use"), and for no other use. During the Term, without incurring any increase in the then-current Base Rent or other modification of the terms and conditions set forth in this Lease, Lessee shall have the right to replace, repair, add or otherwise modify its Ground Equipment within the Ground Space, including without limitation, any modification, repair, addition, or otherwise necessary in order for Lessee to remain in compliance with any current or future federal, state, or local mandated application. including emergency 911 communication services, provided that at all times (i) Lessee shall not materially interfere with the operations of the District's and delivery of services: (ii) Lessee shall restore any and all damage caused by any of the foregoing activities; and (iii) Lessee shall be solely responsible for any and all permitting and approvals required for such changes. Except as permitted pursuant to the foregoing sentence, Lessee shall not otherwise modify any portion of the Wireless Facility depicted in Exhibit B without first obtaining the District's written consent, which shall not be unreasonably withheld conditioned or delayed. The parties acknowledge that any requested modification of the Antennas and Cables shall require a structural analysis of weight and wind loading upon the Water Tank conforming to the requirements of Section 7 herein. Lessee shall reimburse the District for all actual and reasonable professional fees and costs incurred by the District in connection with independently evaluating Lessee's request for any such modification.

4. <u>RENT</u>.

(a) Commencing on the Commencement Date, Base rent shall be due at an annual rental of Forty Two Thousand and 00/100 Dollars (\$42,000.00), as the same may be adjusted as set forth in subsection 4(c) below, and shall be paid to the District in equal monthly installments of Three Thousand Five Hundred and 00/100 Dollars (\$3,500.00), in advance, on the first day of each month during the Term ("Base Rent"), at the address set forth above, or to such other person, firm, or address as the District may, from time to time, designate in writing at least sixty (60) days in advance of any rental payment date by written notice given to Lessee. In any partial month of the Term, the Base Rent will be prorated accordingly. The first Base Rent payment shall be made within twenty (20) business days of the Commencement Date. The Parties acknowledge and agree that, notwithstanding anything to the contrary set forth in this Lease, Lessee's obligation to pay Base Rent or any other amount due hereunder is contingent upon Lessee's receipt of an IRS approved W-9 form setting forth the tax identification number of the District (or of the person or entity to whom Base Rent is to be made payable, if applicable).

- (b) If any Base Rent or other payment due hereunder is not received by the District on or before the tenth (10th) day following the date upon which such payment is due, Lessee shall pay to the District a late charge equal to five (5%) percent multiplied by such past due amount as additional rent hereunder. All amounts more than thirty (30) days past due shall accrue interest at the lesser of the maximum annual rate of interest permitted by applicable law or twelve (12%) per annum as additional rent. Any applicable late fee shall be paid within thirty (30) days of Lessee's receipt of an invoice thereof from the District.
- (c) Base Rent shall increase by three percent (3%) of the then current Base Rent on each anniversary of the Commencement Date thereafter (including during any Extended Term hereunder).
- (d) No payment by Lessee or receipt by the District of a lesser amount than the Base Rent payable hereunder shall be deemed to be other than a payment on account to be credited against monies owed the District hereunder, in such order as the District may reasonably determine, nor shall any restrictive endorsement, statement or name on any check or any check or any letter accompanying any check or payment delivered to the District be deemed, declared, or interpreted an accord and satisfaction. The District may accept and deposit such check or payment without notice to Lessee and without the same operating as a satisfaction or an acceptance of satisfaction by the District and without prejudice of the District's right to recover the balance of any monies due hereunder, or to pursue any other remedy provided herein or by law.
- 5. <u>CONDITION OF PROPERTY</u>. Lessee covenants and agrees that Lessee has inspected and examined the Premises and has determined that the Premises are in all respects acceptable to and suitable for Lessee's Permitted Use. Lessee acknowledges that the Premises are being delivered to Lessee in their "AS IS" condition and the District makes no representation or warranty of any kind with respect thereto.
- 6. GOVERNMENT APPROVALS. It is understood and agreed that Lessee's ability to effectuate any Permitted Use at the Premises is contingent upon its obtaining, at Lessee's sole cost and expense, (i) a satisfactory structural analysis showing that the Water Tank is suitable for Lessee's Permitted Use; and (ii) all of the certificates, permits, and other approvals that may be required by any Federal, State, or Local authorities in connection with Lessee's installation and operation of a Wireless Facility and conduct of the Permitted Use (collectively, "Government Approvals"). The District shall use commercially reasonable efforts, at no cost to the District, to cooperate with Lessee in its effort to obtain the Government Approvals, provided, however Lessee shall take no action to re-zone the District Property, and the District shall have no obligation to execute or permit any petitions or applications to such effect. In order to facilitate such cooperation, Lessee shall provide to District for the District's review copies of any application or other filing done by Lessee on behalf of the District at least ten (10) days in advance of the proposed filing date. Lessee shall endeavor to obtain all Governmental Approvals prior to the two hundred seventieth (270th) calendar day following the Effective Date (the "Approvals Period"); provided, however, in all circumstances Lessee shall obtain all such Governmental Approvals prior to any commencement of installation of the Wireless Facility. In the event that, prior to expiration of the Approvals Period, (i) any 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 the issuing governmental authority; (iii) Lessee

4

determines that such Governmental Approvals may not be obtained in a timely manner; or (iv) a structural analysis shows that the Water Tank is not suitable for Lessee's Permitted Use; then, Lessee shall have the right to terminate this Lease subject to the payment of any rent becoming due and payable prior to the effective date of such termination. Notice of Lessee's exercise of its right to terminate shall be in writing and shall be effective within thirty (30) days of the date of such notice, or upon such later date as designated by Lessee (but not more than ninety (90) days from the date of such notice, in any event). All rents paid to said termination date shall be retained by the District. Upon such termination, this Lease 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.

- 7. STRUCTURAL ANALYSIS. Before constructing and/or erecting any portion of the Wireless Facility on the District Property, Lessee shall, at Lessee's sole cost and expense, obtain a satisfactory structural analysis or structural letter confirming that the Wireless Facility will not materially impact the Water Tank's structural integrity. Any such analysis or letter shall be certified to the District and shall be signed and sealed by a licensed professional engineer. Lessee shall provide the District an original of any such letter or analysis prepared Lessee at least fifteen (15) days before constructing and/or erecting any portion of the Wireless Facility on the District Property.
- 8. <u>SURVEY</u>. At Lessee's sole cost and expense, Lessee is hereby given the right to survey, test, and conduct any other reasonable investigations needed to determine if the location of the Premises is suitable for the Permitted Uses provided herein.

9. MAINTENANCE.

- (a) Lessee shall keep and maintain Premises in good condition, reasonable wear and tear and damage from the elements excepted. The District, at its sole cost and expense, shall maintain and repair the Water Tank in good and ordinary structural condition and any relevant Water Tank lighting systems. The District shall have no obligation to secure the Premises and shall not be liable for any losses suffered by Lessee as a result of Lessee's failure to so secure the Premises.
- (b) Notwithstanding anything to the contrary contained herein, in the event the District requires the demolition or renovation of the Water Tank or the relocation (collectively, the "Relocation") of the Premises (or a portion thereof) and/or the Wireless Facility (or a portion thereof), the District shall have the right to send a written notice ("Relocation Notice") to Lessee to relocate the Premises (or a portion thereof) and/or the Wireless Facility (or a portion thereof), to another structure on the District Property or upon a replacement of the Water Tank (the "Alternate Site") that is reasonably similar in height to the existing Water Tank. The Relocation Notice shall specify the date of the Relocation which must be at least twelve (12) months subsequent to the effective date of the Relocation Notice. In the event that Lessee deems that the recommended Alternate Site is unsuitable for Lessee's purposes hereunder, Lessee shall have the right to terminate this Lease upon notice to the District not less than one (1) month prior to the planned Relocation date. Further, upon Lessee's request, the Parties shall work in good faith to allow Lessee to place and use a Temporary Coverage Solution (as defined below) in a mutually agreed upon location at the Property during any relocation, and/or, in the event Lessee determines

the Alternate Site is not suitable, as may be necessary to accommodate Lessee's ongoing use of the Property after any applicable Relocation date for up to six (6) months thereafter. Any use of a Temporary Coverage Solution shall be subject to all applicable local, state and federal regulations applicable thereto and any relevant terms and conditions of this Lease. Lessee shall not be required to permanently relocate its equipment to an Alternate Site more than one (1) time during the Term; provided no such limitation shall be made upon Temporary Relocations required for maintenance and upkeep of the Water Tank pursuant to subsection (c) below. Lessee shall pay all costs for relocating Lessee's equipment to the Alternate Site or the Temporary Coverage Solution. "Temporary Coverage Solution" means a "cell on wheels" or a functionally equivalent mobile structure or other interim cell siting arrangement and all equipment necessary or advisable for the operation thereof.

- (c) Upon request of the District, Lessee agrees to relocate its Wireless Facility (or one or more portion thereof) on a temporary basis to another location on the Property, hereinafter referred to as the "<u>Temporary Relocation</u>," for the purpose of the District performing maintenance, repair or similar work at the Water Tank or the District Property, provided:
 - (i) The Temporary Relocation is similar to Lessee's existing location in size and is fully compatible for Lessee's use, in Lessee's reasonable determination;
 - the District gives Lessee at least ninety (90) days written notice prior to requiring Lessee to relocate (except in the event of an emergency, in which case the District shall provide as much notice as is reasonably feasible based upon the circumstances, and in which event the District will, upon Lessee's request, coordinate with Lessee to facilitate the use of a Temporary Coverage Solution during the Period of such Temporary Relocation);
 - (iii) Lessee's use at the Premises is not interrupted or diminished during the relocation and Lessee is allowed, if necessary, in Lessee's reasonable determination, to place a temporary installation on the Property during any such relocation (which temporary installation must be removed by Lessee after completion of such Temporary Relocation and Lessee returning to its original location);
 - (iv) Upon the completion of any maintenance, repair or similar work by the District, Lessee is permitted to return to its original location from the temporary location with all reasonable costs incurred by Lessee for the same being paid by the District.

10. UTILITIES.

- (a) Lessee shall be responsible for paying on a monthly or quarterly basis all utilities charges for electricity, water, gas, telephone service and any other utility used or consumed by Lessee. The District will not be responsible for interference with, interruption of or failure, beyond the reasonable control of the District, of such utility services furnished or supplied by the District.
- (b) Lessee shall have the right to install new or improve present utilities on the Leased Property, at Lessee's expense, reasonably necessary to carry on any Permitted Use.

- (c) Lessee shall furnish and install, at Lessee's sole cost and expense, an electrical meter at the Premises for the measurement of electrical power used by Lessee's installation.
- (d) The Parties acknowledge and agree that independent third-party providers of utility services, including but not limited to, fiber, gas, electric and telephone, shall be provided with reasonable access over the District Property to permit connection by Lessee at a point located within the License Areas.
- 11. <u>TAXES</u>. Lessee shall have the responsibility to pay any personal property, real estate taxes, assessments, or charges owed on the District Property which is the result of any use of the Premises by Lessee.

12. <u>ENVIRONMENTAL</u>.

- Lessee shall not cause or permit any Hazardous Material to be used, stored, generated, or disposed of on or in the Premises or the District Property by Lessee, Lessee's agents, employees, contractors, or invitees except in conformity with all applicable laws. If Hazardous Materials are used, stored, generated, or disposed of on or in the Premises or the District Property. of if the Premises or the District Property become contaminated in any manner for which Lessee is legally liable, Lessee shall indemnify, defend, and hold harmless the District, its officers, directors, trustees, shareholders, members, partners, employees, and agents from any and all claims demands, causes of action, damages, fines, judgments, penalties, costs, liabilities, expenses or losses of whatever kind or nature, known or unknown, contingent or otherwise, to the extent arising during or after the Term and to the extent arising as a result of that contamination by Lessee. Without limitation of the foregoing, if Lessee causes or permits the presence of any Hazardous Material on the Premises or the District Property and the presence of such Hazardous Material results in contamination, Lessee shall promptly, at its sole expense, take any and all necessary actions to return the Premises or the District Property to the condition existing prior to the presence of any such Hazardous Material on the Premises or District Property, Lessee shall first obtain the District's approval for any such remedial action. This indemnification includes, without limitation. any and all costs incurred because of any investigation of the site or any cleanup, removal, or restoration mandated by a federal, state, or local agency or political subdivision arising from such environmental condition caused by Lessee. The provisions of this subsection 12(a) shall be in addition to any other obligations and liabilities may have to the District at law or equity and shall survive the transactions contemplated herein and shall survive the termination of this Lease.
- (b) Lessee shall not discharge, leak, or emit, or permit to be discharged, leaked, or emitted, any material into the atmosphere, ground, sewer system, or any body of water, if that material does or may pollute or contaminate the same, or may adversely affect (i) the health, welfare, or safety of persons, whether located on the Premises, District Property, or elsewhere, (ii) the condition, use or enjoyment of the Premises, District Property, or any other real or personal property; or (iii) the quality and quality of the District's water supply.
- (c) Due to the nature and purpose of the District Property, including the Water Tank, as a public water purveyor and distributor, Lessee expressly acknowledges the importance of maintaining, protecting, and preventing any change in the quality and quantity of the water located and stored at the District Property ("District Water"). In the event that Lessee's use of the

7

Site Number: NJJER01152C

Premises results in any change in the quality and/or quantity of District Water due to a discharge, leak, or emission of any potential pollutant or contaminate, in addition to the remedial actions provided in subsection (a) above, Lessee also agrees to undertake all best efforts necessary to restore the quality and quantity of District Water or fully compensate the District for costs of securing and supplying replacement water to fulfill the District's obligations as a local water purveyor. Following a change in quality and/or quantity of District Water attributable to Lessee, Lessee shall conduct or cause to be conducted at Lessee's sole expense, tests of the District Water by an independent testing laboratory approved in writing by the District for the entire array of chemicals and agents utilized by Lessee in its use and occupancy of the Premises and continue periodic testing of District Water until District Water is deemed safe for human consumption under the applicable federal, state, and/or local drinking water standards. Lessee shall provide the District complete copies of any such test results and data at Lessee's sole cost and expense.

- (d) As used herein, the term "Hazardous Material" shall mean any substance that is toxic, ignitable, reactive, or corrosive and that is now or hereafter regulated by any local government, the state where the Property is located, or the United States Government, including without limitation, asbestos, polychlorobiphenyls (PCBs), perfluoroalkyl and polyfluoroalkyl substances (PFAS), petroleum products or distillates, any and all material or substances that are defined as "hazardous waste," "extremely hazardous waste," or a "hazardous substance" pursuant to state, federal, or local Law.
- (e) The District understands and agrees that notwithstanding anything contained in this Lease to the contrary, except to the extent directly attributable to Lessee, in no event shall Lessee have any liability whatsoever with respect to any claim related to Hazardous Material that was on, about, adjacent to, under or near the District Property prior to the Effective Date, or that was generated, possessed, used, stored, released, spilled, treated, transported, manufactured, refined, handled, produced or disposed of on, about, adjacent to, under or near the Property by Landlord, its agents, employees, contractors or invitees.
- 13. <u>TITLE: QUIET ENJOYMENT</u>. The District represents that it is the owner in fee simple of the District Property and the Premises and the District has the right to grant the rights set forth in this Lease. Upon paying Rent and performing Lessee's obligations hereunder, Lessee shall peaceably and quietly hold and enjoy the Premises for the term of this Lease.
- 14. ASSIGNMENT/SUBLEASE. Except with the prior written consent of the District, which consent will not be unreasonably withheld, conditioned of delayed, Lessee shall not transfer nor assign this Lease or any rights hereunder, nor sublet and/or sublicense the Premises or License Areas, as applicable, or any portion of the District Property, nor grant any interest, privilege or license whatsoever in connection with this Lease. Any such action taken without the express written approval, assignment and assumption of Lease by assignee will constitute a violation of this Lease by Lessee and a trespass by any sublessee of Lessee or assignee. If the District consents to an assignment by Lessee, or any sublease and/or sublicense by Lessee to a third-party, Lessee shall remain liable for all obligations provided herein.

Notwithstanding the foregoing, Lessee may assign or transfer some or all of its rights and/or obligations under the Lease to: (i) an Affiliate (as defined below); (ii) a successor entity to its business, whether by merger or by sale of all or substantially all of its assets or stock; and/or

(iii) any other entity directly or indirectly controlling, controlled by or under common control with any of the foregoing, and in each case, such assignment or transfer shall not be considered an assignment under this Section 14 requiring consent and the District shall have no right to delay, alter or impede such assignment or transfer. For clarity, and the avoidance of doubt, neither: (a) a change in ownership of Lessee as a result of a merger, consolidation or reorganization; nor (b) the sale of all or substantially all of the assets of Lessee, shall be considered an assignment under this Section 14 requiring the District's consent, "Affiliate(s)" means, with respect to a Party, any person or entity, directly or indirectly, controlling, controlled by, or under common control with such Party, in each case for so long as such control continues. For purposes of this definition, "control" shall mean (i) the ownership, directly or indirectly, or at least fifty percent (50%) of either: (a) the voting rights attached to issued voting shares; or (b) the power to elect fifty percent (50%) of the directors of such entity, or (ii) the ability to direct the actions of the entity.

Should the District, at any time during the Term, sell or transfer all or any part of the Premises or the Water Tank thereon to a purchaser other than Lessee, then, in such instance, such transfer shall be subject to this Lease and the District shall take commercially reasonable efforts to require any such purchaser or transferee to recognize Lessee's rights under the terms of this Lease in a written instrument signed by the District and the third party transferee. Notwithstanding the foregoing, the District shall not be required to obtain such written instrument for any transfer to any governmental entity or quasi-governmental entity.

15. <u>INDEMNIFICATION</u>. Except to the extent caused by the breach of this Lease by the District or the negligence or willful misconduct of the District, its officers, agents, employees, contractors, or any other person or entity for whom the District is legally responsible, Lessee agrees to indemnify, defend and hold the District harmless from and against any and all injury, loss, damage or liability, costs or expenses in connection with a third party claim (including reasonable attorneys' fees and court costs) arising directly from (i) Lessee's installation, use, maintenance, repair or removal of the Wireless Facility, (ii) Lessee's use, maintenance, and occupancy of the Premises (collectively (i) and (ii) are hereinafter referred to as "Lessee's Use"), or (iii) Lessee's breach of any provision of this Lease. The foregoing provisions shall be in addition to any other indemnities granted by Lessee in favor of the District under this Lease, and shall survive any termination or expiration of this Lease.

The absence of the District's indemnity to Lessee under this Lease shall not be construed to limit or waive any statutory or legal rights in equity or at law that Lessee may have against the District for (i) the negligent, willful or intentional acts or omissions of the District its officers, agents, employees, contractors, or any other person or entity for whom the District is legally responsible, in connection with this Lease; (ii) the District's breach of this Lease; or (iii) a breach of any representation, warranty or covenant of the District contained or incorporated in this Lease.

16. <u>INSURANCE</u>. Lessee, at its own expense, shall maintain in full force and effect for the duration of the Lease Term a combined single limit policy of bodily injury and property damage insurance, with a limit of not less than \$1,000,000.00 per occurrence and \$2,000,000.00 aggregate, insuring both the District and Lessee against all liability arising out of Lessee's use, occupancy, or maintenance of the Premises, which policy shall be endorsed as a primary insurance to the District. Any such policy shall contain a provision for a thirty (30) days' notice of cancellation to the

District; there will be an exception for non-payment of premium, which is ten (10) days' notice of cancellation. The Parties agree and hereby waive and release any and all rights of action for negligence against the other Party which may hereafter arise on account of damage to the Premises or the Property, resulting from any fire, or other casualty which is insurable under "Causes of Loss—Special Form" property damage insurance or for the kind covered by standard fire insurance policies with extended coverage, regardless of whether or not, or in what amounts, such insurance is now or hereafter carried by the Parties, even if any such fire or other casualty shall have been caused by the fault or negligence of the other Party. These waivers and releases shall apply between the Parties and they shall also apply to any claims under or through either Party as a result of any asserted right of subrogation. All such policies of insurance obtained by the Parties concerning the Premises or the Property shall waive the insurer's right of subrogation against the other Party.

Throughout the Term, the District shall maintain, at the District's sole cost and expense, Commercial General Liability of not less than \$1,000,000 per occurrence and \$2,000,000 aggregate. The insurance required of the District hereunder may be maintained by a blanket or master policy that includes properties other than the District Property.

- 17. <u>TERMINATION</u>. This Lease may be terminated, without penalty or further liability, as follows:
- (a) By Lessee upon written notice to the District, if the Lessee is unable to obtain or maintain any Government Approvals necessary for the construction or operation of any Permitted Use at the Premises prior to the expiration of the Approvals Period; or
- (b) By Lessee upon not less than sixty (60) days' prior written notice to the District for any reason or no reason, so long as Lessee pays the District a termination fee equal to six (6) months' Base Rent, at the then-current rate, provided, however, that no such termination fee will be payable on account of the termination of this Lease by Lessee under any termination right provided under any other section of this Lease.
- 18. HOLDOVER. In the event that Lessee does not vacate the Premises and continues to use and occupy the Premises after the expiration of the Term ("Holdover"), in addition to the remedies available to the District under this Lease, Lessee shall pay the District Base Rent for any duration beyond the Term for which Lessee is a Holdover at a rate of one hundred and twenty-five percent (125%) of the applicable monthly Base Rent in effect at the end of the Term. In no event shall any Holdover be granted or have reinstated any leasehold rights or any right to remain in occupancy for any period of time due to the Holdover's payment for use and occupancy under this section and the District's acceptance thereof.
- 19. <u>REMOVAL AND RESTORATION</u>. The Wireless Facility and any other property brought onto the District Property by Lessee will be and remain Lessee's personal property and, at Lessee's option, may be removed by Lessee at any time during the Term. The District covenants and agrees that no portion of the Wireless Facility constructed, erected, or placed on the District Property by Lessee will become, or be considered as being affixed or a part of, the District Property, it being the specific intention of the District that all improvements of every kind and nature constructed, erected, or placed by Lessee on the District Property will be and remain the personal property of Lessee and may be removed by Lessee at any time during, or at the end of,

the Term. Lessee shall repair any damage to the Premises, the Water Tank or the District Property resulting from Lessee's removal activities. In the event that any portion of the Wireless Facility, or any other property of Lessee, is not removed within sixty (60) days after the later of the end of the Term, termination of this Lease, or cessation of Lessee's operation of the Wireless Facility, the District may send notice to Lessee of such failure to remove and if not removed within thirty (30) days of such notice, such shall be deemed abandoned and may be removed by the District at Lessee's sole cost and expense which actual and reasonable costs shall become due and payable thirty (30) days after Lessee's receipt of an invoice therefore from the District.

- CONDEMNATION. In the event of any condemnation of all of the District Property or 20. the entirety of the Premises, this Lease shall terminate 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, Lessee, in Lessee's sole discretion, is unable to use the Premises for the purposes intended hereunder, or such condemnation may reasonably be expected, in Lessee's reasonable determination, to disrupt Lessee's operations at the Premises for more than one-hundred-twenty (120) days, Lessee may, at its option, to be exercised in writing within thirty (30) days after the condemning authority shall have taken possession, terminate this Lease as of the date the condemning authority takes such possession. All compensation awarded for any condemnation (or the proceeds of private sale in lieu thereof) shall be the property of the District and Lessee hereby assigns all of its interest in any such award to the District. Any such notice of termination shall cause this Lease 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 Lease and the Parties shall make an appropriate adjustment as of such termination date with respect to payments due to the other under this Lease. If Lessee does not terminate this Lease in accordance with the foregoing, this Lease 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 Lease is not terminated by reason of such condemnation, the District shall promptly repair any damage to the Premises caused by such condemning authority to the extent of condemnation proceeds (excluding any proceeds for land) actually received. The parties shall each be entitled to pursue their own separate awards in the condemnation proceeds provided that any award to Lessee may not reduce any potential award to the District.
- 21. CASUALTY. In the event of damage by fire or other casualty to the Premises that cannot be reasonably be expected to be repaired within one-hundred-twenty (120) days following same or, if the Water Tank or District Property is damaged by fire or other casualty so that such damage may reasonably be expected to disrupt Lessee's Permitted Uses at the Premises for more than one-hundred-twenty (120) days, then Lessee may, at any time following such fire or other casualty, provided the District has not completed the restoration required to permit Lessee to resume Permitted Uses at the Premises, terminate this Lease upon thirty (30) days prior written notice to the District. Any such notice of termination shall cause this Lease 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 Lease and the parties shall make an appropriate adjustment, as of such termination date, with respect to payments due to the other under this Lease. Notwithstanding the foregoing, Base Rent shall abate during the period of repair following such fire or other casualty in proportion to the degree to which Lessee's Permitted Uses of the Premises is impaired.

22. <u>SECURITY</u>. The Parties recognize and agree that Lessee shall have the right to safeguard and protect its Ground Equipment. Lessee may elect, at its expense, to construct such enclosures and/or fences as Lessee reasonably determines to be necessary to secure the Ground Space and Ground Equipment, provided that such enclosures and/or fencing does not interfere with the District's access to, use of, or operations on the District Property or Water Tank.

23. DEFAULT.

- (a) For the purpose of this Lease, a "<u>Default</u>" shall mean any breach of this Lease which goes uncured within the applicable cure periods and extensions, if any. The failure of either Party to perform any of its obligations pursuant to this Lease shall constitute a Default.
- Except as provided in subsection (c) below for monetary default, the non-defaulting Party shall give the defaulting Party written notice of such Default, and the defaulting Party shall cure such Default within thirty (30) days after receipt of such notice. In the event any such Default cannot reasonably be cured within such thirty (30) day period, if the defaulting Party shall proceed promptly after the receipt of such notice to cure such Default, and shall pursue curing such Default with due diligence, then the time for curing shall be extended for such period of time as may be necessary to complete such curing, however, in no event shall this extension of time be in excess of ninety (90) days, unless agreed upon in writing by the non-defaulting Party. A Party may not maintain an action to pursue any of the remedies available at law or under this Lease for Default against a defaulting Party unless and until the defaulting Party has failed to cure the breach within the time periods provided in this section.
- If either Party is in default under this Lease for a period of twenty (20) business (c) days following receipt of notice from the other Party with respect to a default which may solely be cured by the payment of money, the non-defaulting Party may pursue any of the remedies available to the non-defaulting Party at law, in equity, or under this Lease for Default against the defaulting Party. Notwithstanding the foregoing, the District shall only be required to provide Lessee with two (2) notices of default in any given calendar year with respect to Lessee's failure to pay any sums becoming due and owing, and if any subsequent non-payment by Lessee occurs in such calendar year, the District may proceed to any of the remedies available without providing any further notice or cure; provided however, the second notice shall include the following (in all caps and bold font): "LESSEE IS HEREBY ON NOTICE THAT THIS IS THE SECOND NOTICE OF FAILURE BY LESSEE TO MAKE TIMELY PAYMENT IN THE CURRENT CALENDAR YEAR, AND IF LESSEE AGAIN FAILS TO MAKE TIMELY PAYMENT DURING THIS CALENDAR YEAR, LESSEE SHALL BE IN DEFAULT WITHOUT FURTHER NOTICE OR GRACE PERIOD."
- 24. <u>REMEDIES</u>. Should the defaulting Party fail to cure a default under this Lease, the non-defaulting Party shall have all remedies available either at law or in equity, including the right to terminate this Lease.

- 25. NOTICE OF LEASE. The Parties agrees to execute a notice of this Lease, consistent with the requirements of Connecticut General Statutes Section 47-19, and thereafter record such notice in the City of Norwalk land records. Upon expiration or earlier termination of this Lease, Lessee shall execute within thirty (30) days after the District's written request, an instrument terminating such notice of Lease (which obligation shall survive expiration or termination of this Lease).
- 26. <u>NOTICES</u>. All notices, requests and demands hereunder will be given by first class certified or registered mail, return receipt requested, or by a nationally recognized overnight courier, postage prepaid, to be effective when properly sent and received, refused or returned undelivered. Notices will be addressed to the parties hereto as follows:

If to Lessee:

Dish Wireless L.L.C.

Aftn: Lease Administration 5701 South Santa Fe Drive Littleton, CO 80120

If to District:

First Taxing District of the City of Norwalk

Attn: Manager

12 New Canaan Avenue Norwalk, Connecticut 06851

With a copy to:

Pullman & Comley LLC 90 State House Square

Hartford, CT 06103

Attn: M. A. Ceccorulli, Esq.

Either party hereto may change the place for the giving of notice to it by thirty (30) days' prior written notice to the other party hereto as provided herein.

- 27. ESTOPPEL CERTIFICATES. Lessee, at any time, and from time to time, upon thirty (30) days' notice from the District, shall execute, acknowledge and deliver to the District, and/or to any other person, firm or corporation specified by the District, a statement certifying that this Lease is unmodified and in full force and effect (or, if there have been modifications, that the same is in full force and effect as modified and stating the modifications), stating the dates to which the rent and additional rent have been paid, and stating whether or not there exists any known default by the District under this Lease, and, if so, specifying each such default.
- 28. MECHANICS' LIENS. If any mechanic's, laborer's or materialman's lien shall be filed against any portion of the District Property on account of services performed in or on the District Property by Lessee or Lessee's contractors, subcontractors, mechanics, laborers, suppliers or any other person or entity, Lessee, within thirty (30) days after notice of the filing thereof, will cause the same to be discharged of record by payment, deposit bond, order of court of competent jurisdiction or otherwise. If Lessee shall fail to cause such lien to be discharged within the period aforesaid, then, in addition to any other right or remedy, the District may, but shall not be obligated to, discharge the same by paying the amount claimed to be due. Any amount so paid by the District and all costs and expenses incurred by the District in connection therewith, together with interest

13

Site Number: NJJER01152C

thereon at the rate of twelve (12%) percent per annum from the respective dates of the District's making of the payment or incurring of the cost and expense shall constitute additional rent payable by Lessee under this Lease and shall be paid by Lessee to the District within thirty (30) days of demand.

- 29. INSPECTION. The District or its authorized agents shall at all reasonable times, upon twenty-four (24) hours prior notice, have the right to enter the Premises to inspect the same with a representative of Lessee. The District reserves the right to enter the Premises from time to time upon prior notice for the purposes of performing maintenance, repairs and improvements to the Water Tank and the District Property, provided the District shall take no action that will knowingly interfere with the performance of the Wireless Facility.
- 30. WAIVERS. Lessee represents, warrants and acknowledges that the transaction of which this Lease is a part is a "commercial transaction" as defined by the statutes of the State of Connecticut. THE LESSEE HEREBY WAIVES ALL RIGHTS TO NOTICE AND PRIOR COURT HEARING OR COURT ORDER UNDER CONNECTICUT GENERAL STATUTES SECTIONS 52-278a ET SEQ. AS AMENDED OR UNDER ANY OTHER STATE OR FEDERAL LAW WITH RESPECT TO ANY AND ALL PREJUDGMENT REMEDIES, THE LANDLORD MAY EMPLOY TO ENFORGE ITS RIGHTS AND REMEDIES HEREUNDER, THE LESSEE FURTHER CONSENTS TO THE ISSUANCE OF ANY PREJUDGMENT REMEDIES WITHOUT A BOND AND AGREES NOT TO REQUEST OR FILE MOTIONS SEEKING TO REQUIRE THE POSTING OF A BOND UNDER PUBLIC ACT 93-431 IN CONNECTION WITH THE LANDLORD'S EXERCISE OF ANY PREJUDGMENT REMEDY.

31. MISCELLANEOUS.

- (a) Amendment/Waiver. This Lease cannot be amended, modified or revised unless done in writing and signed by District and Lessee. No provision may be waived except in a writing signed by both parties. The failure by a party to enforce any provision of this Lease or to require performance by the other party will not be construed to be a waiver, or in any way affect the right of either party to enforce such provision thereafter.
- (b) Limitation of Liability. Except for the indemnity obligations set forth in this Lease, and otherwise notwithstanding anything to the contrary in this Lease, Lessee and District each waives any claims that each may have against the other with respect to consequential, incidental or special damages, however caused, based on any theory of liability.
- (c) Compliance with Law. Lessee agrees to comply with all federal, state and local laws, orders, rules and regulations applicable to Lessee's Permitted Use of the Premises and the District Property.
- (d) Bind and Benefit. The terms and conditions contained in this Lease will run with the Premises and bind and inure to the benefit of the parties, their respective heirs, executors, administrators, successors and assigns.
- (e) Entire Agreement. This Lease and the exhibits attached hereto, all being a part hereof, constitute the entire agreement of the parties hereto and will supersede all prior offers,

negotiations and agreements with respect to the subject matter of this Lease. Except as otherwise stated in this Lease, each party shall bear its own fees and expenses (including the fees and expenses of its agents, brokers, representatives, attorneys, and accountants) incurred in connection with the negotiation, drafting, execution and performance of this Lease and the transactions it contemplates.

- (f) Governing Law. This Lease will be governed by the laws of the state of Connecticut and without regard to any existing or potential conflicts of law.
- Interpretation. Unless otherwise specified, the following rules of construction and (g) interpretation apply: (i) captions are for convenience and reference only and in no way define or limit the construction of the terms and conditions hereof; (ii) use of the term "including" will be interpreted to mean "including but not limited to"; (iii) whenever a party's consent is required under this Lease, except as otherwise stated in the Lease or as same may be duplicative, such consent will not be unreasonably withheld, conditioned of delayed; (iv) exhibits are an integral part of this Lease and are incorporated by reference into this Lease; (v) use of the terms "termination" or "expiration" are interchangeable; (vi) reference to a default will take into consideration any applicable notice, grace and cure periods; (vii) to the extent there is any issue with respect to any alleged, perceived or actual ambiguity in this Lease, the ambiguity shall not be resolved on the basis of who drafted the Lease; (viii) the singular use of words includes the plural where appropriate; and (ix) if any provision of this Lease is held invalid, illegal or unenforceable. the remaining provisions of this Lease shall remain in full force if the overall purpose of the Lease is not rendered impossible and the original purpose, intent or consideration is not materially impaired.
- (h) Survival. Any provisions of this Lease relating to indemnification shall survive the termination or expiration hereof. In addition, any terms and conditions contained in this Lease that by their sense and context are intended to survive the termination or expiration of this Lease shall so survive.
- (i) Submission of Agreement. The submission of this Lease to any party for examination or consideration does not constitute an offer, reservation of or option for the Premises based on the terms set forth herein. This Lease shall only become effective as a binding Lease upon the handwritten legal execution, acknowledgment and delivery hereof by the District and Lessee.
- (j) Counterparts. This Lease may be executed in two (2) or more counterparts, all of which shall be considered one and the same agreement and shall become effective when one or more counterparts have been signed by each of the parties. All parties need not sign the same counterpart.
- (k) Attorneys' Fees. In the event that any dispute between the parties related to this Lease should result in litigation, the prevailing party in such litigation shall be entitled to recover from the other party all reasonable fees and expenses of enforcing any right of the prevailing party, including reasonable attorneys' fees and expenses. Prevailing party means the party determined by the court to have most nearly prevailed even if such party did not prevail in all matters.

(I) RESERVED.

- (m) Further Acts. Upon request, both Parties will cause to be promptly and duly taken, executed, acknowledged and delivered all such further acts, documents, and assurances as the other Party may request from time to time in order to effectuate, carry out and perform all of the terms, provisions and conditions of this Lease and all transactions and Permitted Use contemplated by this Lease.
- (n) Force Majeure. District shall be excused for the period of any delay in the performance of any obligation hereunder when prevented from so doing by causes beyond its control, including labor disputes, civil commotion, hostilities, sabotage, governmental regulations or controls, fire or other casualty, inability to obtain any material, financing or services, pandemics (such as the Covid-19 pandemic) and acts of God (sometimes referred to herein as "Force Majeure"). Lessee shall similarly be excused for Force Majeure delay in the performance of any obligation hereunder, provided that nothing contained in this Section shall be deemed to excuse or permit any delay in the payment of Base Rent or any additional amount due hereunder, or any delay in the cure of any default which may be cured by the payment of money.
- INTERFERENCE. Prior to or concurrent with the execution of this Agreement, the District has provided or will provide Lessee with a list of radio frequency user(s) and frequencies used on the District Property as of the Effective Date. Lessee warrants that its use of the Premises will not interfere with those existing radio frequency uses on the District Property, as long as those existing radio frequency user(s) operate and continue to operate within their respective frequencies and in accordance with all applicable laws and regulations. In the event any Lessee's equipment causes such interference, and after the District has notified Lessee in writing of such interference. Lessee shall provide the District with a report containing (i) a remediation plan to abate or eliminate the interference; (ii) an estimate of the time required to complete such interference abatement; (iii) additional information that may assist the District or other frequency user(s) in conducting their respective activities pending completion of interference abatement. Lessee will take all steps necessary to correct and eliminate the interference, including but not limited to powering down such equipment and later powering up such equipment for intermittent testing. If Lessee cannot abate or eliminate the interference, Lessee shall either remove or relocate its equipment to an alternative location that does not cause interference with the District's systems or Lessee may otherwise terminate this Lease by written notice to the District and Lessee shall have no further liability hereunder from and after the date of such termination. In no event will the District be entitled to terminate this Lease or relocate the equipment as long as Lessee is making a good faith effort to remedy the interference issue. The District agrees that the District and/or any other tenants or licensees of the District 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 thenexisting industry standards to the then existing equipment of Lessee. Notwithstanding the foregoing, the District shall, at all times, be allowed to utilize the District Property for its intended purposes and any interference caused by the use of equipment, or operations by, the District or other governmental or quasi-governmental entities on the District Property shall not be deemed a material breach hereunder.

[No further text on this page - signature page follows]

16

Site Number: NJJER01152C

IN WITNESS WHEREOF, the parties have caused this Lease to be effective as of the Effective Date.

DISTRICT:

THE FIRST TAXING DISTRICT OF THE CITY OF NORWALK

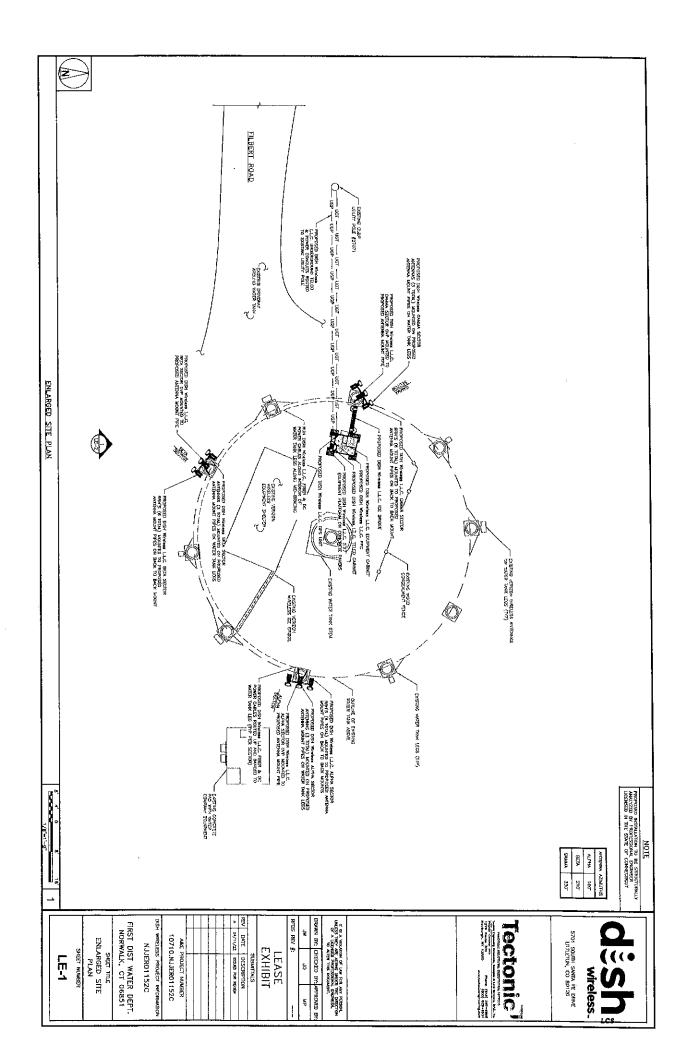
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Its)	Chair, District Commissioner
Date;	9/26/2023
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lts:	District Commissioner
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Its:	District Commissioner
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EXHIBIT A

District Property

All that certain tract or parcel of land, situated in the Town of Morwalk, County of Fairfield and State of Connecticut, in area 40,131 square feet, and shown and delineated as parcel 3 on a certain map which has been approved by the Planning Commission and by the Common Council of the City of Norwalk and is on file in the office of the Town Clerk of the Town of Norwalk, and is entitled "Map of Property Prepared For Sidney I. Asp Norwalk, Conn. Scale 1 300 Feb. 22, 1960 Revised Feb. 25, 1960 By Leo Leonard, Jr., Civil Engr. & Surveyor, Norwalk, Conn. Said parcel 3 is generally bounded northerly for a distance of 283.53 feet, more or less, by land now or formerly of Mary Tuoxxolo and by land now or formerly of Mary Tuoxxolo and by land now or formerly of Mary Tuoxxolo and by land now or formerly of Wars Asp; southerly 229.66 feet, more or less, by land now or formerly of Mary Caratone; and westerly 105.48 feet by land now or formerly of John U. and Anna B. O'Neill, by Filbert Hoad, and by land now or formerly of Yito Tuoxxolo.

Site Number: NJJER01152C



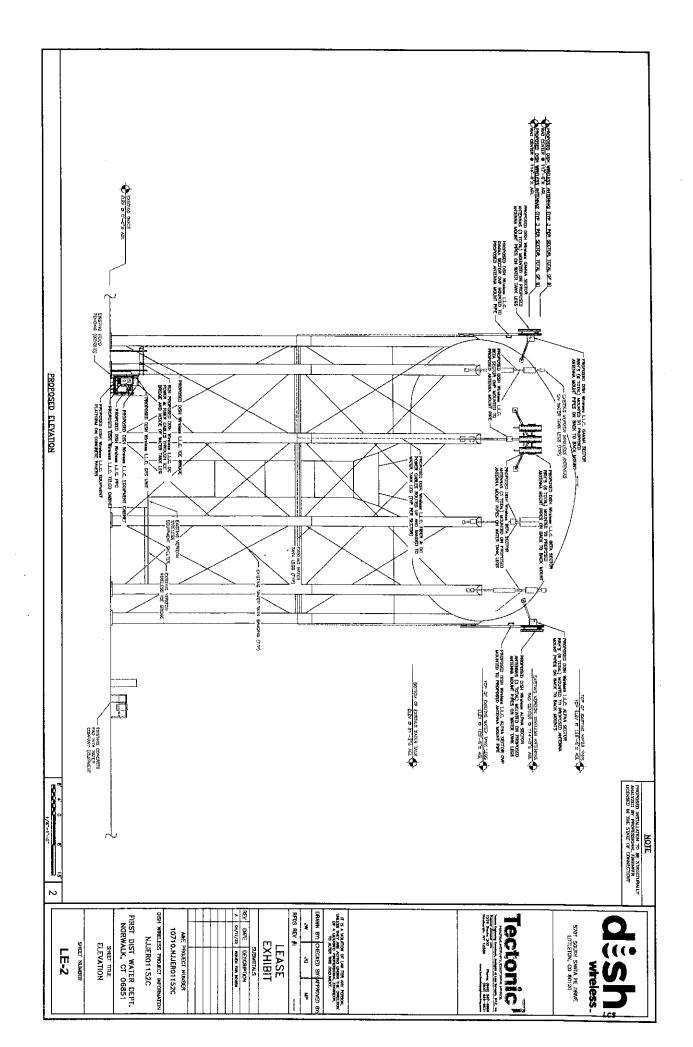


Exhibit F Emissions Report



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:

NJJER01152C

Site Address:

11 Filbert Road

Norwalk, CT

Latitude:

N 41.118467

Longitude:

W 73.396694

Structure type: Report date: WATER TOWER

November 6, 2023

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
Antenna and Transmission Data
Compliance Analysis
Compliance Conclusion
Certification
Appendix A. Documents Used to Prepare the Analysis
Appendix B. Background on the FCC MPE Limit
Appendix C. Proposed Signage
Appendix D. Summany of Expent 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 water tower located at 11 Filbert Road in Norwalk, CT. DISH refers to the antenna site by the code "NJJER01152C", 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 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 6.6898 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 14 times below the FCC limit for safe, continuous exposure of the general public. DISH guidelines, and consistent with FCC guidance on rooftop compliance, it is recommended that three Caution signs and NOC Information signs be installed at the base of the water tower.
- The results of the calculations, along with the proposed mitigation, combine to satisfy the FCC requirements and associated guidelines on RF compliance at street level around the site. 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:

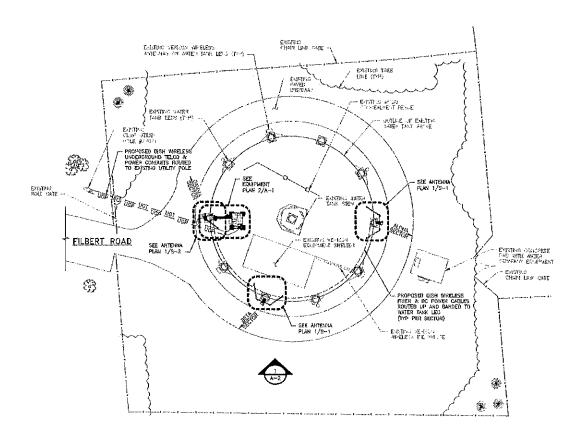
- □ relevant technical data on the proposed DISH antenna operations at the site, as well as on the existing Verizon Wireless antenna operations;
- a description of the applicable FCC mathematical model for calculating RF levels, and application of the relevant technical data to that model;
- analysis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

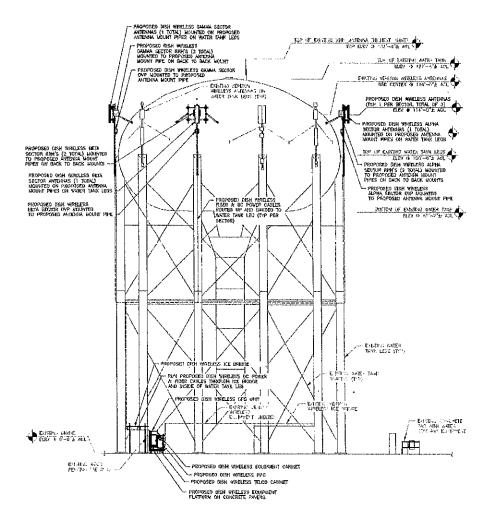
Antenna and Transmission Data

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 O	Carrie Carrie	Andreas Antreside	Anomy Social	wei	in.				程 表 表 例	Ani Gun Heled		Allerin	ΙΞΟΓ.	1200
0	DISH	JMA Wireless	MX08FRO665-21	Panel	600	- 6	120	1637	114.0	11.46	68	60	2	0
0	DISH	JMA Wireless	MX08FRO665-21	Panel	2000	6	160	6011	114.0	16.16	62	60	2	0
0	DISH	JMA Wireless	MX08FRO665-21	Panel	2100	6	160	7567	114.0	16.66	64	60	2	0
0	DISH	JMA Wireless	MX08FRO665-21	Panel	600	6	120	1637	114.0	11.46	68	160	2	0
9	DISH	JMA Wireless	MX08FRO665-21	Panel	2000	6	160	6011	114,0	16.16	62	160	2	0
0	DISH	JMA Wireless	MX08FRO665-21	Panel	2100	6	160	7567	114.0	16,66	64	160	2	0
0	DISH	JMA Wireless	MX08FRO665-21	Panel	600	6	120	1637	114.0	11.46	68	260	2	O
0	DISH	JMA Wireless	MX08FRO665-21	Panel	2000	6	160	6011	114.0	16.16	62	260	2	0
6	DISH	JMA Wireless	MX08FRO665-21	Panel	2100	6	160	7567	114.0	16.66	64	260	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.

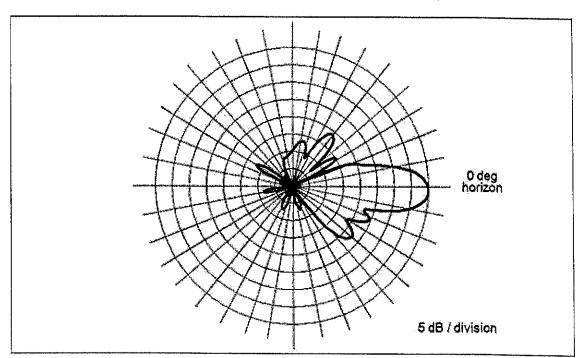


Figure 1. JMA Wireless MX08FRO665-21-600 MHz Vertical-plane Pattern

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.

e Cuc	L'Amerina di Manufacturer, Manufacturer,	America	7,5	Freq (MHz)	A Vactor	Anarcan (EQ)	Azımıdı
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 to 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:

MPE% = (100 * Chans * TxPower * 10 (Gmax-Vdlsc/10) * 4) / (MPE *
$$4\pi$$
 * 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 (Gmax-Vdlsc/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 (2² = 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.

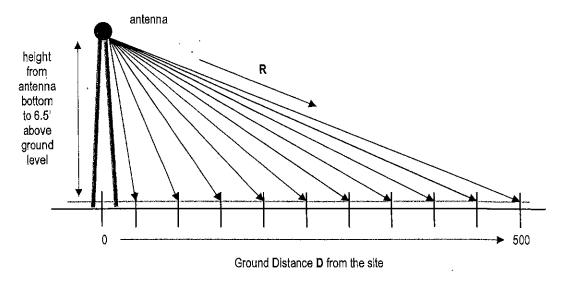


Figure 2. Street-level MPE% Calculation Geometry

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.

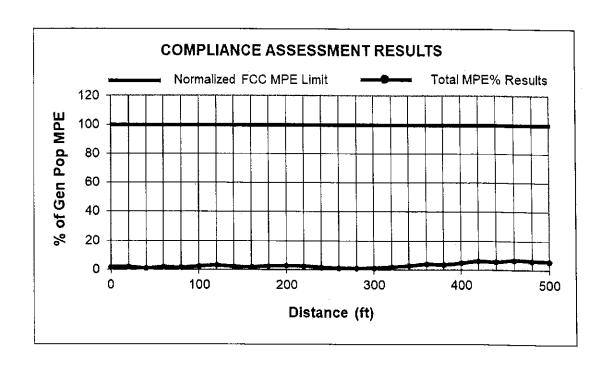
The net result of these assumptions is to intentionally and significantly overstate the calculated RF levels relative to the levels that will actually result from the antenna operations – and the purpose of this conservatism is to allow very "safe-side" conclusions about compliance.

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.

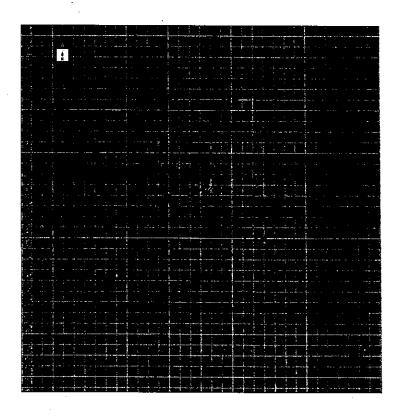
Ground Distance (ft)	DISH 600 MHz MPE%	DISH 2000 MHz MPE%	DISH 2100 MHz MPE%	Verizon Wireless MPE%	Total MPE%
		0.0004		4.5.470	
0	0.0446	0.0021	0.0003	1.5472	1.5942
20	0.0868	0.0037	0.0049	1.5970	1.6924
40	0.1806	0.0134	0.0391	0.6082	0.8413
60	0.0775	0.0381	0.1137	1.4636	1.6929
80	0.0457	0.2129	0.0441	0.9657	1.2684
100	0.2055	0.1779	0.3717	1.4734	2.2285
120	0.2864	0.2456	0.2953	2.1245	2.9518
140	0,1667	0.0574	0.1863	1.6117	2.0221
160	0.0750	0.0248	0.0043	1.6034	1.7075
180	0.0357	0.0040	0.0627	2.3275	2.4299
200	0.0279	0.0789	0.0321	2.5197	2.6586
220	0.0210	0.0734	0.1249	2.1329	2.3522
240	0.0116	0.0139	0.0723	1.3814	1.4792
260	0.0100	0.0851	0.0236	0.8907	1.0094
280	0.0172	0.1101	0.0663	0.6858	0.8794
300	0.0323	0.0931	0.1056	0.9021	1.1331
320	0.0568	0.0513	0.1051	1.5201	1.7333
340	0.0915	0.0163	0.0696	2.4270	2.6044
360	0.1360	0.0043	0.0307	3,6501	3.8211
380	0.1906	0.0041	0.0096	3.2981	3.5024
400	0.2533	0.0033	0.0031	4.3674	4.6271
420	0.3220	0.0066	0.0020	5.7197	6.0503
440	0.2949	0.0060	0.0018	5.2342	5.5369
460	0.3623	0.0235	0.0090	6.2950	6.6898
480	0.3340	0.0217	0.0083	5.8007	6.1647
500	0.3980	0.0505	0.0296	5.3366	5.8147

As indicated, the maximum calculated overall RF level is 6.6898 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 reproduced below.



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 6.6898 percent of the FCC general population 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 water tower.

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.
- 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

11/6/23

Date

Appendix A. Documents Used to Prepare the Analysis

RFDS: RFDS-NJJER01152C-Preliminary-20220429-v.1_20220429111517

CD: NJJER01152C_PrelimCD_20230105085829

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.

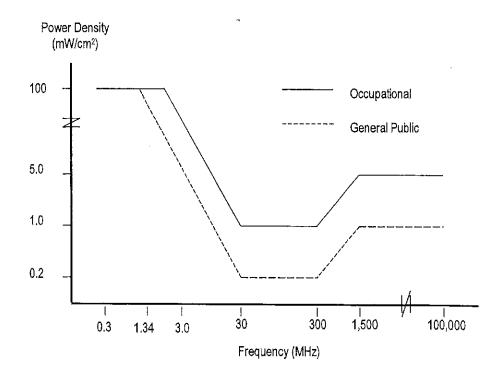
The specified continuous exposure MPE limits are based on known variation of human body susceptibility in different frequency ranges, and a Specific Absorption Rate (SAR) of 4 watts per kilogram, which is universally considered to accurately represent human capacity to dissipate incident RF energy (in 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/cm²)	General Public Exposure (mW/cm²)
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.

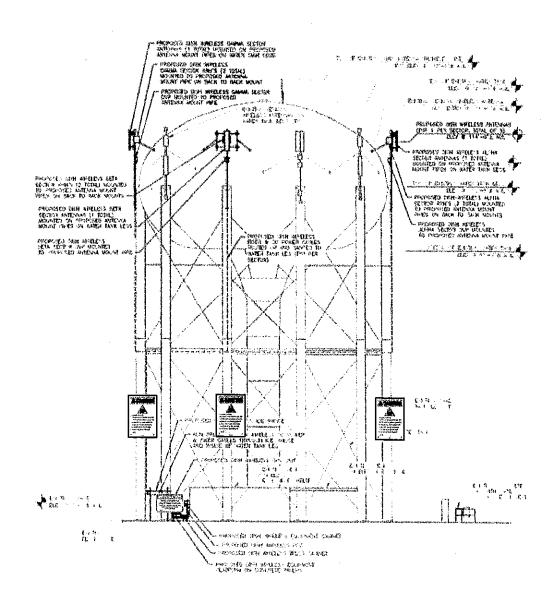
FCC Report and Order, Notice of Proposed Rulemaking, Memorandum Opinion and Order (FCC 19-126), Proposed Changes in the Commission's Rules Regarding Human Exposure to Radiofrequency Electromagnetic Fields; Reassessment of Federal Communications Commission Radiofrequency Exposure Limits and Policies,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

<u>Finat</u> <u>Compliance</u> <u>Configuration</u>		NOTICE ((v))	Extension of the control of the cont	The state of the s	INFORMATION The American St.	
	GUIDELINES	NOTICE	CAUTION	WARNING	NOC INFO	BARRIER/MARKER
Access Point(s)	0	0	0	0	1	0
Alpha	0	0	1	0	0	0
Beta	0	0	i	0	Ö	0
Gamma	0	0	ī	0	0	



Appendix D. Summary of Expert Qualifications

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

gonia de la companya	
Synopsis:	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
AL COMBINE AND COMPANY OF THE CONTROL OF THE CONTRO	40 other states, as well as by the FCC
Education:	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
Current Responsibilities:	Leads all PTG staff work involving RF safety and FCC
	compliance, microwave and satellite system engineering, and
	consulting on wireless technology and regulation
Prior Experience:	Edwards & Kelcey, VP – RF Engineering and Chief
	Information Technology Officer, 1996-99
	Belicore (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
Specific RF Safety /	Involved in RF exposure matters since 1972
Compliance Experience:	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
Other Background:	Author, Microwave System Engineering (AT&T, 1974)
	Co-author and executive editor, A Guide to New
	Technologies and Services (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
Constitution of Accordance Spaces of the Spaces (March 1988)	Have published more than 35 articles in industry magazines

Exhibit D Lease Agreement

LEASE AGREEMENT

(Water Tank Installation)

THIS LEASE AGREEMENT ("Lease") is made this ______ day of _____, 2023 by and between the FIRST TAXING DISTRICT OF THE CITY OF NORWALK, a Connecticut Municipal Corporation, having an address at 12 New Canaan Avenue, Norwalk, Connecticut 06851 ("District"), and DISH WIRELESS L.L.C., a Colorado limited liability company, with its principal offices at 9601 S. Meridian Boulevard, Englewood, Colorado 80112 ("Lessee"). The District and Lessee are at times collectively referred to hereinafter as the "Parties" or individually as the "Party."

RECITALS

WHEREAS, District is the owner of certain real property located at 11 Filbert Road, in the City of Norwalk, County of Fairfield and State of Connecticut more particularly described and/or depicted in **Exhibit A** attached hereto and made a part hereof (the "District Property"), which District Property is improved with a water tank structure ("Water Tank"); and

WHEREAS, Lessee desires to lease a portion of the ground space adjacent to the Water Tank and license certain portions of the exterior of the Water Tank for the development of a wireless communications facility (a "Wireless Facility"); and

WHEREAS, District is willing to enter into a lease with Lessee, subject to the terms and conditions set forth herein.

NOW THEREFORE, the Parties hereto, in consideration of the mutual covenants contained herein and intending to be legally bound hereby, agree as follows:

- 1. <u>LEASE OF PREMISES</u>; <u>LICENSE OF WATER TANK SPACE</u>. District hereby leases to Lessee, and Lessee leases from District, approximately 100 square feet of ground space located adjacent to the Water Tank and within a fence-enclosed area on the District Property (the "<u>Equipment Compound</u>"), as more particularly shown on <u>Exhibit B</u> attached hereto and made a part hereof ("<u>Ground Space</u>"), for the installation, operation, and maintenance of wireless communications equipment associated with a Wireless Facility operated by Lessee ("<u>Ground Equipment</u>"). The foregoing leasehold is granted and demised to Lessee together with:
- (a) a license to install, operate and maintain: (i) pipe-mounted antennas (the "Antennas") on the exterior perimeter surface of the Water Tank at a centerline height of one-hundred and fourteen (114) feet +/- above ground level with a minimum of five (5) feet in each vertical direction of separation from adjacent occupants on the Water Tank (the "Antenna Space"); and (ii) cables, wires, conduits, poles, and/or pipes and related connectors and anchors (collectively, the "Cables") running between the Antennas, the Ground Equipment, and that proposed point of connection to public utilities at the telco connection point identified on Exhibit B on the District Property (the "Cable Space"). The Antennas, Cables, Antenna Space and Cable Space are more particularly shown on Exhibit B attached hereto, and the space occupied by such Antenna Space and Cable Space as shown therein are hereinafter referred to as the "License Areas". If the existing utility sources located on the District Property are insufficient for Lessee's permitted use, the District agrees to grant Lessee and/or the applicable third party utility provider

Site Number: NJJER01152C

the right, at Lessee's sole cost and expense, to install such utilities on, over and/or under the District Property as is reasonably necessary for Lessee's permitted use, provided that the location of such utilities shall be approved in advance by the District, such approval not to be unreasonably withheld, conditioned, or delayed and such approval not to be contingent on any additional rent or other consideration; provided, however; (i) the parties acknowledge and agree that the District may require the location of such utilities to be configured in a manner that maximizes further development of the Equipment Compound, or other considerations reasonably relevant to the District's business, and that location required by the District as a condition of approval may be determined independently of relevant economic or cost factors or of convenience to the Lessee or its contractors or utility provider(s); and (ii) the District reserves the right to condition any further rights granted to such parties upon the right or ability of the District to relocate such utilities. connections, and/or the Cable Space as needed from time to time at no cost to Lessee, as may be necessary or desirable to facilitate further development within the Equipment Compound for equivalent alternative facilities) and/or in furtherance of the District's business. The Parties agree and acknowledge that for any relocation of such utilities pursuant to this Section 1(a), the Parties shall work together in good faith to coordinate such relocation, including coordination with Lessee to facilitate the use of a Temporary Coverage Solution as Lessee reasonably determines is necessary.

(b) the non-exclusive right to access the Ground Space, over the District Property, from the nearest public right-of-way, identified as 11 Filbert Road, Norwalk, Connecticut, by foot or by motor vehicle, 24 hours per day, 7 days per week and at no additional cost or expense to Lessee, for the installation, maintenance and repair of the Wireless Facility, provided such access may not unreasonably interfere with, compromise, reduce in capacity, or otherwise disrupt; (i) any of the District's utility connections or (ii) the District's use and operation of the Water Tank or the District Property (the foregoing, collectively, "Access Rights").

The Ground Space is hereinafter sometimes referred to as the "Leasehold Area". The Leasehold Area and the License Areas are hereinafter referred to collectively as the "Premises". The Ground Equipment, the Antennas and the Cables are sometimes hereinafter referred to collectively as the "Equipment".

Notwithstanding the fact that this Lessee's rights to the License Areas is a license and that a license is normally revocable at will by the grantor, the parties hereto agree that the license granted by this Lease for the License Areas is not revocable at will and that this Lease can only be terminated in accordance with the provisions of this Lease or otherwise as ordered by a court of competent jurisdiction.

2. TERM.

(a) This Lease shall be effective as of the date of execution by both Parties (the "Effective Date") and be for an initial term of five (5) years ("Initial Term"). The Initial Term shall commence (the "Commencement Date") on the earlier to occur of the first (1st) day of the month following the date of either: (i) commencement of Lessee's installation of the Wireless Facility; or (ii) the two hundred seventieth (270th) calendar day following the Effective Date. Notwithstanding anything stated herein, with respect to (i) in the immediately preceding sentence, the Parties acknowledge that Lessee's preparation of the Premises to accommodate electric,

telephone, fiber and other utilities for Lessee's installation shall not constitute Lessee's installation of its communications equipment nor shall it trigger the Commencement Date.

- (b) The term of the Lease shall automatically renew for four (4) additional periods of five (5) years each (each, an "Extended Term") provided Lessee is not then in default hereunder, unless Lessee elects, in Lessee's sole and absolute discretion, not to renew the Lease at the end of the then-current term by giving the District written notice at least one hundred eighty days (180) days prior to the expiration of the Initial Term or the current Extended Term, as applicable.
- (c) The Initial Term, together with any Extended Term(s), shall be collectively referred to herein as the "Term."
- 3. PERMITTED USE. Lessee shall use the Premises for the purpose of constructing. maintaining, repairing, and operating a Wireless Facility ("Permitted Use"), and for no other use. During the Term, without incurring any increase in the then-current Base Rent or other modification of the terms and conditions set forth in this Lease, Lessee shall have the right to replace, repair, add or otherwise modify its Ground Equipment within the Ground Space, including without limitation, any modification, repair, addition, or otherwise necessary in order for Lessee to remain in compliance with any current or future federal, state, or local mandated application. including emergency 911 communication services, provided that at all times (i) Lessee shall not materially interfere with the operations of the District's and delivery of services: (ii) Lessee shall restore any and all damage caused by any of the foregoing activities, and (iii) Lessee shall be solely responsible for any and all permitting and approvals required for such changes. Except as permitted pursuant to the foregoing sentence, Lessee shall not otherwise modify any portion of the Wireless Facility depicted in Exhibit B without first obtaining the District's written consent, which shall not be unreasonably withheld conditioned or delayed. The parties acknowledge that any requested modification of the Antennas and Cables shall require a structural analysis of weight and wind loading upon the Water Tank conforming to the requirements of Section 7 herein. Lessee shall relimburse the District for all actual and reasonable professional fees and costs incurred by the District in connection with independently evaluating Lessee's request for any such modification.

4. <u>RENT</u>.

(a) Commencing on the Commencement Date, Base rent shall be due at an annual rental of Forty Two Thousand and 00/100 Dollars (\$42,000.00), as the same may be adjusted as set forth in subsection 4(c) below, and shall be paid to the District in equal monthly installments of Three Thousand Five Hundred and 00/100 Dollars (\$3,500.00), in advance, on the first day of each month during the Term ("Base Rent"), at the address set forth above, or to such other person, firm, or address as the District may, from time to time, designate in writing at least sixty (60) days in advance of any rental payment date by written notice given to Lessee. In any partial month of the Term, the Base Rent will be prorated accordingly. The first Base Rent payment shall be made within twenty (20) business days of the Commencement Date. The Parties acknowledge and agree that, notwithstanding anything to the contrary set forth in this Lease, Lessee's obligation to pay Base Rent or any other amount due hereunder is contingent upon Lessee's receipt of an IRS approved W-9 form setting forth the tax identification number of the District (or of the person or entity to whom Base Rent is to be made payable, if applicable).

- (b) If any Base Rent or other payment due hereunder is not received by the District on or before the tenth (10th) day following the date upon which such payment is due, Lessee shall pay to the District a late charge equal to five (5%) percent multiplied by such past due amount as additional rent hereunder. All amounts more than thirty (30) days past due shall accrue interest at the lesser of the maximum annual rate of interest permitted by applicable law or twelve (12%) per annum as additional rent. Any applicable late fee shall be paid within thirty (30) days of Lessee's receipt of an invoice thereof from the District.
- (c) Base Rent shall increase by three percent (3%) of the then current Base Rent on each anniversary of the Commencement Date thereafter (including during any Extended Term hereunder).
- (d) No payment by Lessee or receipt by the District of a lesser amount than the Base Rent payable hereunder shall be deemed to be other than a payment on account to be credited against monies owed the District hereunder, in such order as the District may reasonably determine, nor shall any restrictive endorsement, statement or name on any check or any check or any letter accompanying any check or payment delivered to the District be deemed, declared, or interpreted an accord and satisfaction. The District may accept and deposit such check or payment without notice to Lessee and without the same operating as a satisfaction or an acceptance of satisfaction by the District and without prejudice of the District's right to recover the balance of any monies due hereunder, or to pursue any other remedy provided herein or by law.
- 5. <u>CONDITION OF PROPERTY</u>. Lessee covenants and agrees that Lessee has inspected and examined the Premises and has determined that the Premises are in all respects acceptable to and suitable for Lessee's Permitted Use. Lessee acknowledges that the Premises are being delivered to Lessee in their "AS IS" condition and the District makes no representation or warranty of any kind with respect thereto.
- GOVERNMENT APPROVALS. It is understood and agreed that Lessee's ability to 6. effectuate any Permitted Use at the Premises is contingent upon its obtaining, at Lessee's sole cost and expense, (i) a satisfactory structural analysis showing that the Water Tank is suitable for Lessee's Permitted Use; and (ii) all of the certificates, permits, and other approvals that may be required by any Federal, State, or Local authorities in connection with Lessee's installation and operation of a Wireless Facility and conduct of the Permitted Use (collectively, "Government Approvals"). The District shall use commercially reasonable efforts, at no cost to the District, to cooperate with Lessee in its effort to obtain the Government Approvals, provided, however Lessee shall take no action to re-zone the District Property, and the District shall have no obligation to execute or permit any petitions or applications to such effect. In order to facilitate such cooperation, Lessee shall provide to District for the District's review copies of any application or other filing done by Lessee on behalf of the District at least ten (10) days in advance of the proposed filing date. Lessee shall endeavor to obtain all Governmental Approvals prior to the two hundred seventieth (270th) calendar day following the Effective Date (the "Approvals Period"); provided, however, in all circumstances Lessee shall obtain all such Governmental Approvals prior to any commencement of installation of the Wireless Facility. In the event that, prior to expiration of the Approvals Period, (i) any 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 the issuing governmental authority; (iii) Lessee

determines that such Governmental Approvals may not be obtained in a timely manner; or (iv) a structural analysis shows that the Water Tank is not suitable for Lessee's Permitted Use; then, Lessee shall have the right to terminate this Lease subject to the payment of any rent becoming due and payable prior to the effective date of such termination. Notice of Lessee's exercise of its right to terminate shall be in writing and shall be effective within thirty (30) days of the date of such notice, or upon such later date as designated by Lessee (but not more than ninety (90) days from the date of such notice, in any event). All rents paid to said termination date shall be retained by the District. Upon such termination, this Lease shall be of no further force or effect except to the extent of the representations, warranties, and indemnifies made by each Party to the other hereunder.

- 7. STRUCTURAL ANALYSIS. Before constructing and/or erecting any portion of the Wireless Facility on the District Property, Lessee shall, at Lessee's sole cost and expense, obtain a satisfactory structural analysis or structural letter confirming that the Wireless Facility will not materially impact the Water Tank's structural integrity. Any such analysis or letter shall be certified to the District and shall be signed and sealed by a licensed professional engineer. Lessee shall provide the District an original of any such letter or analysis prepared Lessee at least fifteen (15) days before constructing and/or erecting any portion of the Wireless Facility on the District Property.
- 8. <u>SURVEY</u>. At Lessee's sole cost and expense, Lessee is hereby given the right to survey, test, and conduct any other reasonable investigations needed to determine if the location of the Premises is suitable for the Permitted Uses provided herein.

9. <u>MAINTENANCE</u>.

- (a) Lessee shall keep and maintain Premises in good condition, reasonable wear and tear and damage from the elements excepted. The District, at its sole cost and expense, shall maintain and repair the Water Tank in good and ordinary structural condition and any relevant Water Tank lighting systems. The District shall have no obligation to secure the Premises and shall not be liable for any losses suffered by Lessee as a result of Lessee's failure to so secure the Premises.
- (b) Notwithstanding anything to the contrary contained herein, in the event the District requires the demolition or renovation of the Water Tank or the relocation (collectively, the "Relocation") of the Premises (or a portion thereof) and/or the Wireless Facility (or a portion thereof), the District shall have the right to send a written notice ("Relocation Notice") to Lessee to relocate the Premises (or a portion thereof) and/or the Wireless Facility (or a portion thereof), to another structure on the District Property or upon a replacement of the Water Tank (the "Alternate Site") that is reasonably similar in height to the existing Water Tank. The Relocation Notice shall specify the date of the Relocation which must be at least twelve (12) months subsequent to the effective date of the Relocation Notice. In the event that Lessee deems that the recommended Alternate Site is unsuitable for Lessee's purposes hereunder, Lessee shall have the right to terminate this Lease upon notice to the District not less than one (1) month prior to the planned Relocation date. Further, upon Lessee's request, the Parties shall work in good faith to allow Lessee to place and use a Temporary Coverage Solution (as defined below) in a mutually agreed upon location at the Property during any relocation, and/or, in the event Lessee determines

5

the Alternate Site is not suitable, as may be necessary to accommodate Lessee's ongoing use of the Property after any applicable Relocation date for up to six (6) months thereafter. Any use of a Temporary Coverage Solution shall be subject to all applicable local, state and federal regulations applicable thereto and any relevant terms and conditions of this Lease. Lessee shall not be required to permanently relocate its equipment to an Alternate Site more than one (1) time during the Term; provided no such limitation shall be made upon Temporary Relocations required for maintenance and upkeep of the Water Tank pursuant to subsection (c) below. Lessee shall pay all costs for relocating Lessee's equipment to the Alternate Site or the Temporary Coverage Solution. "Temporary Coverage Solution" means a "cell on wheels" or a functionally equivalent mobile structure or other interim cell siting arrangement and all equipment necessary or advisable for the operation thereof.

- (c) Upon request of the District, Lessee agrees to relocate its Wireless Facility (or one or more portion thereof) on a temporary basis to another location on the Property, hereinafter referred to as the "<u>Temporary Relocation</u>," for the purpose of the District performing maintenance, repair or similar work at the Water Tank or the District Property, provided:
 - (i) The Temporary Relocation is similar to Lessee's existing location in size and is fully compatible for Lessee's use, in Lessee's reasonable determination;
 - the District gives Lessee at least ninety (90) days written notice prior to requiring Lessee to relocate (except in the event of an emergency, in which case the District shall provide as much notice as is reasonably feasible based upon the circumstances, and in which event the District will, upon Lessee's request, coordinate with Lessee to facilitate the use of a Temporary Coverage Solution during the Period of such Temporary Relocation);
 - (iii) Lessee's use at the Premises is not interrupted or diminished during the relocation and Lessee is allowed, if necessary, in Lessee's reasonable determination, to place a temporary installation on the Property during any such relocation (which temporary installation must be removed by Lessee after completion of such Temporary Relocation and Lessee returning to its original location);
 - (iv) Upon the completion of any maintenance, repair or similar work by the District, Lessee is permitted to return to its original location from the temporary location with all reasonable costs incurred by Lessee for the same being paid by the District.

10. UTILITIES.

- (a) Lessee shall be responsible for paying on a monthly or quarterly basis all utilities charges for electricity, water, gas, telephone service and any other utility used or consumed by Lessee. The District will not be responsible for interference with, interruption of or failure, beyond the reasonable control of the District, of such utility services furnished or supplied by the District.
- (b) Lessee shall have the right to install new or improve present utilities on the Leased Property, at Lessee's expense, reasonably necessary to carry on any Permitted Use.

- (c) Lessee shall furnish and install, at Lessee's sole cost and expense, an electrical meter at the Premises for the measurement of electrical power used by Lessee's installation.
- (d) The Parties acknowledge and agree that independent third-party providers of utility services, including but not limited to, fiber, gas, electric and telephone, shall be provided with reasonable access over the District Property to permit connection by Lessee at a point located within the License Areas.
- 11. <u>TAXES</u>. Lessee shall have the responsibility to pay any personal property, real estate taxes, assessments, or charges owed on the District Property which is the result of any use of the Premises by Lessee.

12, <u>ENVIRONMENTAL</u>.

- Lessee shall not cause or permit any Hazardous Material to be used, stored, generated, or disposed of on or in the Premises or the District Property by Lessee, Lessee's agents. employees, contractors, or invitees except in conformity with all applicable laws. If Hazardous Materials are used, stored, generated, or disposed of on or in the Premises or the District Property. of if the Premises or the District Property become contaminated in any manner for which Lessee is legally liable, Lessee shall indemnify, defend, and hold harmless the District, its officers, directors, trustees, shareholders, members, partners, employees, and agents from any and all claims demands, causes of action, damages, fines, judgments, penalties, costs, liabilities, expenses or losses of whatever kind or nature, known or unknown, contingent or otherwise, to the extent arising during or after the Term and to the extent arising as a result of that contamination by Lessee. Without limitation of the foregoing, if Lessee causes or permits the presence of any Hazardous Material on the Premises or the District Property and the presence of such Hazardous Material results in contamination, Lessee shall promptly, at its sole expense, take any and all necessary actions to return the Premises or the District Property to the condition existing prior to the presence of any such Hazardous Material on the Premises or District Property. Lessee shall first obtain the District's approval for any such remedial action. This indemnification includes, without limitation, any and all costs incurred because of any investigation of the site or any cleanup, removal, or restoration mandated by a federal, state, or local agency or political subdivision arising from such environmental condition caused by Lessee. The provisions of this subsection 12(a) shall be in addition to any other obligations and liabilities may have to the District at law or equity and shall survive the transactions contemplated herein and shall survive the termination of this Lease.
- (b) Lessee shall not discharge, leak, or emit, or permit to be discharged, leaked, or emitted, any material into the atmosphere, ground, sewer system, or any body of water, if that material does or may pollute or contaminate the same, or may adversely affect (i) the health, welfare, or safety of persons, whether located on the Premises, District Property, or elsewhere, (ii) the condition, use or enjoyment of the Premises, District Property, or any other real or personal property; or (iii) the quality and quality of the District's water supply.
- (c) Due to the nature and purpose of the District Property, including the Water Tank, as a public water purveyor and distributor, Lessee expressly acknowledges the importance of maintaining, protecting, and preventing any change in the quality and quantity of the water located and stored at the District Property ("District Water"). In the event that Lessee's use of the

Premises results in any change in the quality and/or quantity of District Water due to a discharge, leak, or emission of any potential pollutant or contaminate, in addition to the remedial actions provided in subsection (a) above, Lessee also agrees to undertake all best efforts necessary to restore the quality and quantity of District Water or fully compensate the District for costs of securing and supplying replacement water to fulfill the District's obligations as a local water purveyor. Following a change in quality and/or quantity of District Water attributable to Lessee, Lessee shall conduct or cause to be conducted at Lessee's sole expense, tests of the District Water by an independent testing laboratory approved in writing by the District for the entire array of chemicals and agents utilized by Lessee in its use and occupancy of the Premises and continue periodic testing of District Water until District Water is deemed safe for human consumption under the applicable federal, state, and/or local drinking water standards. Lessee shall provide the District complete copies of any such test results and data at Lessee's sole cost and expense.

- (d) As used herein, the term "Hazardous Material" shall mean any substance that is toxic, ignitable, reactive, or corrosive and that is now or hereafter regulated by any local government, the state where the Property is located, or the United States Government, including without limitation, asbestos, polychlorobiphenyls (PCBs), perfluoroalkyl and polyfluoroalkyl substances (PFAS), petroleum products or distillates, any and all material or substances that are defined as "hazardous waste," "extremely hazardous waste," or a "hazardous substance" pursuant to state, federal, or local Law.
- (e) The District understands and agrees that notwithstanding anything contained in this Lease to the contrary, except to the extent directly attributable to Lessee, in no event shall Lessee have any liability whatsoever with respect to any claim related to Hazardous Material that was on, about, adjacent to, under or near the District Property prior to the Effective Date, or that was generated, possessed, used, stored, released, spilled, treated, transported, manufactured, refined, handled, produced or disposed of on, about, adjacent to, under or near the Property by Landlord, its agents, employees, contractors or invitees.
- 13. <u>TITLE: QUIET ENJOYMENT</u>. The District represents that it is the owner in fee simple of the District Property and the Premises and the District has the right to grant the rights set forth in this Lease. Upon paying Rent and performing Lessee's obligations hereunder, Lessee shall peaceably and quietly hold and enjoy the Premises for the term of this Lease.
- 14. ASSIGNMENT/SUBLEASE. Except with the prior written consent of the District, which consent will not be unreasonably withheld, conditioned or delayed, Lessee shall not transfer nor assign this Lease or any rights hereunder, nor sublet and/or sublicense the Premises or License Areas, as applicable, or any portion of the District Property, nor grant any interest, privilege or license whatsoever in connection with this Lease. Any such action taken without the express written approval, assignment and assumption of Lease by assignee will constitute a violation of this Lease by Lessee and a trespass by any sublessee of Lessee or assignee. If the District consents to an assignment by Lessee, or any sublease and/or sublicense by Lessee to a third-party, Lessee shall remain liable for all obligations provided herein.

Notwithstanding the foregoing, Lessee may assign or transfer some or all of its rights and/or obligations under the Lease to: (i) an Affiliate (as defined below); (ii) a successor entity to its business, whether by merger or by sale of all or substantially all of its assets or stock; and/or

(iii) any other entity directly or indirectly controlling, controlled by or under common control with any of the foregoing, and in each case, such assignment or transfer shall not be considered an assignment under this Section 14 requiring consent and the District shall have no right to delay, after or impede such assignment or transfer. For clarity, and the avoidance of doubt, neither: (a) a change in ownership of Lessee as a result of a merger, consolidation or reorganization; nor (b) the sale of all or substantially all of the assets of Lessee, shall be considered an assignment under this Section 14 requiring the District's consent. "Affiliate(s)" means, with respect to a Party, any person or entity, directly or indirectly, controlling, controlled by, or under common control with such Party, in each case for so long as such control continues. For purposes of this definition, "control" shall mean (i) the ownership, directly or indirectly, or at least fifty percent (50%) of either: (a) the voting rights attached to issued voting shares; or (b) the power to elect fifty percent (50%) of the directors of such entity, or (ii) the ability to direct the actions of the entity.

Should the District, at any time during the Term, sell or transfer all or any part of the Premises or the Water Tank thereon to a purchaser other than Lessee, then, in such instance, such transfer shall be subject to this Lease and the District shall take commercially reasonable efforts to require any such purchaser or transferee to recognize Lessee's rights under the terms of this Lease in a written instrument signed by the District and the third party transferee. Notwithstanding the foregoing, the District shall not be required to obtain such written instrument for any transfer to any governmental entity or quasi-governmental entity.

15. <u>INDEMNIFICATION</u>. Except to the extent caused by the breach of this Lease by the District or the negligence or willful misconduct of the District, its officers, agents, employees, contractors, or any other person or entity for whom the District is legally responsible, Lessee agrees to indemnify, defend and hold the District harmless from and against any and all injury, loss, damage or liability, costs or expenses in connection with a third party claim (including reasonable attorneys' fees and court costs) arising directly from (i) Lessee's installation, use, maintenance, repair or removal of the Wireless Facility, (ii) Lessee's use, maintenance, and occupancy of the Premises (collectively (i) and (ii) are hereinafter referred to as "Lessee's Use"), or (iii) Lessee's breach of any provision of this Lease. The foregoing provisions shall be in addition to any other indemnities granted by Lessee in favor of the District under this Lease, and shall survive any termination or expiration of this Lease.

The absence of the District's indemnity to Lessee under this Lease shall not be construed to limit or waive any statutory or legal rights in equity or at law that Lessee may have against the District for (i) the negligent, willful or intentional acts or omissions of the District its officers, agents, employees, contractors, or any other person or entity for whom the District is legally responsible, in connection with this Lease; (ii) the District's breach of this Lease; or (iii) a breach of any representation, warranty or covenant of the District contained or incorporated in this Lease.

16. <u>INSURANCE</u>. Lessee, at its own expense, shall maintain in full force and effect for the duration of the Lease Term a combined single limit policy of bodily injury and property damage insurance, with a limit of not less than \$1,000,000.00 per occurrence and \$2,000,000.00 aggregate, insuring both the District and Lessee against all liability arising out of Lessee's use, occupancy, or maintenance of the Premises, which policy shall be endorsed as a primary insurance to the District. Any such policy shall contain a provision for a thirty (30) days' notice of cancellation to the

District; there will be an exception for non-payment of premium, which is ten (10) days' notice of cancellation. The Parties agree and hereby waive and release any and all rights of action for negligence against the other Party which may hereafter arise on account of damage to the Premises or the Property, resulting from any fire, or other casualty which is insurable under "Causes of Loss — Special Form" property damage insurance or for the kind covered by standard fire insurance policies with extended coverage, regardless of whether or not, or in what amounts, such insurance is now or hereafter carried by the Parties, even if any such fire or other casualty shall have been caused by the fault or negligence of the other Party. These waivers and releases shall apply between the Parties and they shall also apply to any claims under or through either Party as a result of any asserted right of subrogation. All such policies of insurance obtained by the Parties concerning the Premises or the Property shall waive the insurer's right of subrogation against the other Party.

Throughout the Term, the District shall maintain, at the District's sole cost and expense, Commercial General Liability of not less than \$1,000,000 per occurrence and \$2,000,000 aggregate. The insurance required of the District hereunder may be maintained by a blanket or master policy that includes properties other than the District Property.

- 17. TERMINATION. This Lease may be terminated, without penalty or further liability, as follows:
- (a) By Lessee upon written notice to the District, if the Lessee is unable to obtain or maintain any Government Approvals necessary for the construction or operation of any Permitted Use at the Premises prior to the expiration of the Approvals Period; or
- (b) By Lessee upon not less than sixty (60) days' prior written notice to the District for any reason or no reason, so long as Lessee pays the District a termination fee equal to six (6) months' Base Rent, at the then-current rate, provided, however, that no such termination fee will be payable on account of the termination of this Lease by Lessee under any termination right provided under any other section of this Lease.
- 18. <u>HOLDOVER</u> In the event that Lessee does not vacate the Premises and continues to use and occupy the Premises after the expiration of the Term ("<u>Holdover</u>"), in addition to the remedies available to the District under this Lease, Lessee shall pay the District Base Rent for any duration beyond the Term for which Lessee is a Holdover at a rate of one hundred and twenty-five percent (125%) of the applicable monthly Base Rent in effect at the end of the Term. In no event shall any Holdover be granted or have reinstated any leasehold rights or any right to remain in occupancy for any period of time due to the Holdover's payment for use and occupancy under this section and the District's acceptance thereof.
- 19. REMOVAL AND RESTORATION. The Wireless Facility and any other property brought onto the District Property by Lessee will be and remain Lessee's personal property and, at Lessee's option, may be removed by Lessee at any time during the Term. The District covenants and agrees that no portion of the Wireless Facility constructed, erected, or placed on the District Property by Lessee will become, or be considered as being affixed or a part of, the District Property, it being the specific intention of the District that all improvements of every kind and nature constructed, erected, or placed by Lessee on the District Property will be and remain the personal property of Lessee and may be removed by Lessee at any time during, or at the end of,

the Term. Lessee shall repair any damage to the Premises, the Water Tank or the District Property resulting from Lessee's removal activities. In the event that any portion of the Wireless Facility, or any other property of Lessee, is not removed within sixty (60) days after the later of the end of the Term, termination of this Lease, or cessation of Lessee's operation of the Wireless Facility, the District may send notice to Lessee of such failure to remove and if not removed within thirty (30) days of such notice, such shall be deemed abandoned and may be removed by the District at Lessee's sole cost and expense which actual and reasonable costs shall become due and payable thirty (30) days after Lessee's receipt of an invoice therefore from the District.

- CONDEMNATION. In the event of any condemnation of all of the District Property or the entirety of the Premises, this Lease shall terminate 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, Lessee, in Lessee's sole discretion, is unable to use the Premises for the purposes intended hereunder, or such condemnation may reasonably be expected, in Lessee's reasonable determination, to disrupt Lessee's operations at the Premises for more than one-hundred-twenty (120) days, Lessee may, at its option, to be exercised in writing within thirty (30) days after the condemning authority shall have taken possession, terminate this Lease as of the date the condemning authority takes such possession. All compensation awarded for any condemnation (or the proceeds of private sale in lieu thereof) shall be the property of the District and Lessee hereby assigns all of its interest in any such award to the District. Any such notice of termination shall cause this Lease 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 Lease and the Parties shall make an appropriate adjustment as of such termination date with respect to payments due to the other under this Lease. If Lessee does not terminate this Lease in accordance with the foregoing, this Lease 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 Lease is not terminated by reason of such condemnation, the District shall promptly repair any damage to the Premises caused by such condemning authority to the extent of condemnation proceeds (excluding any proceeds for land) actually received. The parties shall each be entitled to pursue their own separate awards in the condemnation proceeds provided that any award to Lessee may not reduce any potential award to the District.
- 21. CASUALTY. In the event of damage by fire or other casualty to the Premises that cannot be reasonably be expected to be repaired within one-hundred-twenty (120) days following same or, if the Water Tank or District Property is damaged by fire or other casualty so that such damage may reasonably be expected to disrupt Lessee's Permitted Uses at the Premises for more than one-hundred-twenty (120) days, then Lessee may, at any time following such fire or other casualty, provided the District has not completed the restoration required to permit Lessee to resume Permitted Uses at the Premises, terminate this Lease upon thirty (30) days prior written notice to the District. Any such notice of termination shall cause this Lease 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 Lease and the parties shall make an appropriate adjustment, as of such termination date, with respect to payments due to the other under this Lease. Notwithstanding the foregoing, Base Rent shall abate during the period of repair following such fire or other casualty in proportion to the degree to which Lessee's Permitted Uses of the Premises is impaired.

22. <u>SECURITY</u>. The Parties recognize and agree that Lessee shall have the right to safeguard and protect its Ground Equipment. Lessee may elect, at its expense, to construct such enclosures and/or fences as Lessee reasonably determines to be necessary to secure the Ground Space and Ground Equipment, provided that such enclosures and/or fencing does not interfere with the District's access to, use of, or operations on the District Property or Water Tank.

23. DEFAULT.

- (a) For the purpose of this Lease, a "<u>Default</u>" shall mean any breach of this Lease which goes uncured within the applicable cure periods and extensions, if any. The failure of either Party to perform any of its obligations pursuant to this Lease shall constitute a Default.
- (b) Except as provided in subsection (c) below for monetary default, the non-defaulting Party shall give the defaulting Party written notice of such Default, and the defaulting Party shall cure such Default within thirty (30) days after receipt of such notice. In the event any such Default cannot reasonably be cured within such thirty (30) day period, if the defaulting Party shall proceed promptly after the receipt of such notice to cure such Default, and shall pursue curing such Default with due diligence, then the time for curing shall be extended for such period of time as may be necessary to complete such curing, however, in no event shall this extension of time be in excess of ninety (90) days, unless agreed upon in writing by the non-defaulting Party. A Party may not maintain an action to pursue any of the remedies available at law or under this Lease for Default against a defaulting Party unless and until the defaulting Party has failed to cure the breach within the time periods provided in this section.
- If either Party is in default under this Lease for a period of twenty (20) business (c) days following receipt of notice from the other Party with respect to a default which may solely be cured by the payment of money, the non-defaulting Party may pursue any of the remedies available to the non-defaulting Party at law, in equity, or under this Lease for Default against the defaulting Party. Notwithstanding the foregoing. the District shall only be required to provide Lessee with two (2) notices of default in any given calendar year with respect to Lessee's failure to pay any sums becoming due and owing, and if any subsequent non-payment by Lessee occurs in such calendar year, the District may proceed to any of the remedies available without providing any further notice or cure; provided however, the second notice shall include the following (in all caps and bold font): "LESSEE IS HEREBY ON NOTICE THAT THIS IS THE SECOND NOTICE OF FAILURE BY LESSEE TO MAKE TIMELY PAYMENT IN THE CURRENT CALENDAR YEAR, AND IF LESSEE AGAIN FAILS TO MAKE TIMELY PAYMENT DURING THIS CALENDAR YEAR, LESSEE SHALL BE IN DEFAULT WITHOUT FURTHER NOTICE OR GRACE PERIOD."
- 24. **REMEDIES.** Should the defaulting Party fail to cure a default under this Lease, the non-defaulting Party shall have all remedies available either at law or in equity, including the right to terminate this Lease.

- 25. NOTICE OF LEASE. The Parties agrees to execute a notice of this Lease, consistent with the requirements of Connecticut General Statutes Section 47-19, and thereafter record such notice in the City of Norwalk land records. Upon expiration or earlier termination of this Lease, Lessee shall execute within thirty (30) days after the District's written request, an instrument terminating such notice of Lease (which obligation shall survive expiration or termination of this Lease).
- 26. <u>NOTICES</u>. All notices, requests and demands hereunder will be given by first class certified or registered mail, return receipt requested, or by a nationally recognized overnight courier, postage prepaid, to be effective when properly sent and received, refused or returned undelivered. Notices will be addressed to the parties hereto as follows:

If to Lessee:

Dish Wireless L.L.C.

Attn: Lease Administration 5701 South Santa Fe Drive Littleton, CO 80120

If to District:

First Taxing District of the City of Norwalk

Attn: Manager

12 New Canaan Avenue Norwalk, Connecticut 06851

With a copy to:

Pullman & Comley LLC 90 State House Square Hartford, CT 06103

Attn: M. A. Ceccorulli, Esq.

Either party hereto may change the place for the giving of notice to it by thirty (30) days' prior written notice to the other party hereto as provided herein.

- 27. ESTOPPEL CERTIFICATES. Lessee, at any time, and from time to time, upon thirty (30) days' notice from the District, shall execute, acknowledge and deliver to the District, and/or to any other person, firm or corporation specified by the District, a statement certifying that this Lease is unmodified and in full force and effect (or, if there have been modifications, that the same is in full force and effect as modified and stating the modifications), stating the dates to which the rent and additional rent have been paid, and stating whether or not there exists any known default by the District under this Lease, and, if so, specifying each such default.
- 28. MECHANICS' LIENS. If any mechanic's, laborer's or materialman's lien shall be filed against any portion of the District Property on account of services performed in or on the District Property by Lessee or Lessee's contractors, subcontractors, mechanics, laborers, suppliers or any other person or entity, Lessee, within thirty (30) days after notice of the filing thereof, will cause the same to be discharged of record by payment, deposit bond, order of court of competent jurisdiction or otherwise. If Lessee shall fail to cause such lien to be discharged within the period aforesaid, then, in addition to any other right or remedy, the District may, but shall not be obligated to, discharge the same by paying the amount claimed to be due. Any amount so paid by the District and all costs and expenses incurred by the District in connection therewith, together with interest

13

Site Number: NJJER01152C

thereon at the rate of twelve (12%) percent per annum from the respective dates of the District's making of the payment or incurring of the cost and expense shall constitute additional rent payable by Lessee under this Lease and shall be paid by Lessee to the District within thirty (30) days of demand.

- 29. INSPECTION. The District or its authorized agents shall at all reasonable times, upon twenty-four (24) hours prior notice, have the right to enter the Premises to inspect the same with a representative of Lessee. The District reserves the right to enter the Premises from time to time upon prior notice for the purposes of performing maintenance, repairs and improvements to the Water Tank and the District Property, provided the District shall take no action that will knowingly interfere with the performance of the Wireless Facility.
- 30. WAIVERS. Lessee represents, warrants and acknowledges that the transaction of which this Lease is a part is a "commercial transaction" as defined by the statutes of the State of Connecticut. THE LESSEE HEREBY WAIVES ALL RIGHTS TO NOTICE AND PRIOR COURT HEARING OR COURT ORDER UNDER CONNECTICUT GENERAL STATUTES SECTIONS 52-278a ET SEQ. AS AMENDED OR UNDER ANY OTHER STATE OR FEDERAL LAW WITH RESPECT TO ANY AND ALL PREJUDGMENT REMEDIES, THE LANDLORD MAY EMPLOY TO ENFORCE ITS RIGHTS AND REMEDIES HEREUNDER. THE LESSEE FURTHER CONSENTS TO THE ISSUANCE OF ANY PREJUDGMENT REMEDIES WITHOUT A BOND AND AGREES NOT TO REQUEST OR FILE MOTIONS SEEKING TO REQUIRE THE POSTING OF A BOND UNDER PUBLIC ACT 93-431 IN CONNECTION WITH THE LANDLORD'S EXERCISE OF ANY PREJUDGMENT REMEDY

31. <u>MISCELLANEOUS</u>.

- (a) Amendment/Waiver. This Lease cannot be amended, modified or revised unless done in writing and signed by District and Lessee. No provision may be waived except in a writing signed by both parties. The failure by a party to enforce any provision of this Lease or to require performance by the other party will not be construed to be a waiver, or in any way affect the right of either party to enforce such provision thereafter.
- (b) Limitation of Liability. Except for the indemnity obligations set forth in this Lease, and otherwise notwithstanding anything to the contrary in this Lease, Lessee and District each waives any claims that each may have against the other with respect to consequential, incidental or special damages, however caused, based on any theory of liability.
- (c) Compliance with Law. Lessee agrees to comply with all federal, state and local laws, orders, rules and regulations applicable to Lessee's Permitted Use of the Premises and the District Property.
- (d) Bind and Benefit. The terms and conditions contained in this Lease will run with the Premises and bind and inure to the benefit of the parties, their respective heirs, executors, administrators, successors and assigns.
- (e) Entire Agreement. This Lease and the exhibits attached hereto, all being a part hereof, constitute the entire agreement of the parties hereto and will supersede all prior offers,

negotiations and agreements with respect to the subject matter of this Lease. Except as otherwise stated in this Lease, each party shall bear its own fees and expenses (including the fees and expenses of its agents, brokers, representatives, attorneys, and accountants) incurred in connection with the negotiation, drafting, execution and performance of this Lease and the transactions it contemplates.

- (f) Governing Law. This Lease will be governed by the laws of the state of Connectiout and without regard to any existing or potential conflicts of law.
- Interpretation. Unless otherwise specified, the following rules of construction and interpretation apply: (i) captions are for convenience and reference only and in no way define or limit the construction of the terms and conditions hereof; (ii) use of the term "including" will be interpreted to mean "including but not limited to"; (ili) whenever a party's consent is required under this Lease, except as otherwise stated in the Lease or as same may be duplicative, such consent will not be unreasonably withheld, conditioned or delayed; (iv) exhibits are an integral part of this Lease and are incorporated by reference into this Lease; (v) use of the terms "termination" or "expiration" are interchangeable; (vi) reference to a default will take into consideration any applicable notice, grace and cure periods; (vii) to the extent there is any issue with respect to any alleged, perceived or actual ambiguity in this Lease, the ambiguity shall not be resolved on the basis of who drafted the Lease; (viii) the singular use of words includes the plural where appropriate; and (ix) if any provision of this Lease is held invalid, illegal or unenforceable, the remaining provisions of this Lease shall remain in full force if the overall purpose of the Lease is not rendered impossible and the original purpose, intent or consideration is not materially impaired.
- (h) Survival. Any provisions of this Lease relating to indemnification shall survive the termination or expiration hereof. In addition, any terms and conditions contained in this Lease that by their sense and context are intended to survive the termination or expiration of this Lease shall so survive.
- (i) Submission of Agreement. The submission of this Lease to any party for examination or consideration does not constitute an offer, reservation of or option for the Premises based on the terms set forth herein. This Lease shall only become effective as a binding Lease upon the handwritten legal execution, acknowledgment and delivery hereof by the District and Lessee.
- (j) Counterparts. This Lease may be executed in two (2) or more counterparts, all of which shall be considered one and the same agreement and shall become effective when one or more counterparts have been signed by each of the parties. All parties need not sign the same counterpart.
- (k) Attorneys' Fees. In the event that any dispute between the parties related to this Lease should result in litigation, the prevailing party in such litigation shall be entitled to recover from the other party all reasonable fees and expenses of enforcing any right of the prevailing party, including reasonable attorneys' fees and expenses. Prevailing party means the party determined by the court to have most nearly prevailed even if such party did not prevail in all matters.

(I) RESERVED.

- (m) Further Acts. Upon request, both Parties will cause to be promptly and duly taken, executed, acknowledged and delivered all such further acts, documents, and assurances as the other Party may request from time to time in order to effectuate, carry out and perform all of the terms, provisions and conditions of this Lease and all transactions and Permitted Use contemplated by this Lease.
- (n) Force Majeure. District shall be excused for the period of any delay in the performance of any obligation hereunder when prevented from so doing by causes beyond its control, including labor disputes, civil commotion, hostilities, sabotage, governmental regulations or controls, fire or other casualty, inability to obtain any material, financing or services, pandemics (such as the Covid-19 pandemic) and acts of God (sometimes referred to herein as "Force Majeure"). Lessee shall similarly be excused for Force Majeure delay in the performance of any obligation hereunder, provided that nothing contained in this Section shall be deemed to excuse or permit any delay in the payment of Base Rent or any additional amount due hereunder, or any delay in the cure of any default which may be cured by the payment of money.
- INTERFERENCE. Prior to or concurrent with the execution of this Agreement, the District has provided or will provide Lessee with a list of radio frequency user(s) and frequencies used on the District Property as of the Effective Date. Lessee warrants that its use of the Premises will not interfere with those existing radio frequency uses on the District Property, as long as those existing radio frequency user(s) operate and continue to operate within their respective frequencies and in accordance with all applicable laws and regulations. In the event any Lessee's equipment causes such interference, and after the District has notified Lessee in writing of such interference. Lessee shall provide the District with a report containing (i) a remediation plan to abate or eliminate the interference; (ii) an estimate of the time required to complete such interference abatement; (iii) additional information that may assist the District or other frequency user(s) in conducting their respective activities pending completion of interference abatement. Lessee will take all steps necessary to correct and eliminate the interference, including but not limited to powering down such equipment and later powering up such equipment for intermittent testing. If Lessee cannot abate or eliminate the interference, Lessee shall either remove or relocate its equipment to an alternative location that does not cause interference with the District's systems or Lessee may otherwise terminate this Lease by written notice to the District and Lessee shall have no further liability hereunder from and after the date of such termination. In no event will the District be entitled to terminate this Lease or relocate the equipment as long as Lessee is making a good faith effort to remedy the interference issue. The District agrees that the District and/or any other tenants or licensees of the District 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 thenexisting industry standards to the then existing equipment of Lessee. Notwithstanding the foregoing, the District shall, at all times, be allowed to utilize the District Property for its intended purposes and any interference caused by the use of equipment, or operations by, the District or other governmental or quasi-governmental entities on the District Property shall not be deemed a material breach hereunder.

[No further text on this page - signature page follows]

16

Site Number: NJJER01152C

IN WITNESS WHEREOF, the parties have caused this Lease to be effective as of the Effective Date.

DISTRICT:

THE FIRST TAXING DISTRICT OF THE CITY OF NORWALK

int Name: Jalin T. Sead Chair, District Commissioner ate: 9/26/23 y: Support Commissioner ate: 9/26/23 y: Long Callen, Esq. bistrict Commissioner ate: 9/26/23 pistrict Commissioner	<u>.</u>
Chair, District Commissioner ate: 9/26/25 y: Chair, District Commissioner ate: 9/26/26/25 y: District Commissioner ate: 9/26/26/23 y: District Commissioner bistrict Commissioner ate: 9/26/26/23	
y: Some College Spirit Name: Thomas College Esq. si. District Commissioner ate: 9/20/3623 y: Long College Spirit Name: Elsa Peterson Obuchowski st. District Commissioner	
y: Complete Commissioner ate: 9/20/3823 y: Logistrict Commissioner ate: 9/20/3823 y: Logistrict Commissioner bistrict Commissioner Strict Commissioner	
rint Name: Thomas Callen, Esq. District Commissioner ate: 9/20/3523 y: y: Long Peterson Obuchowski s: District Commissioner	
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EXHIBIT A

District Property

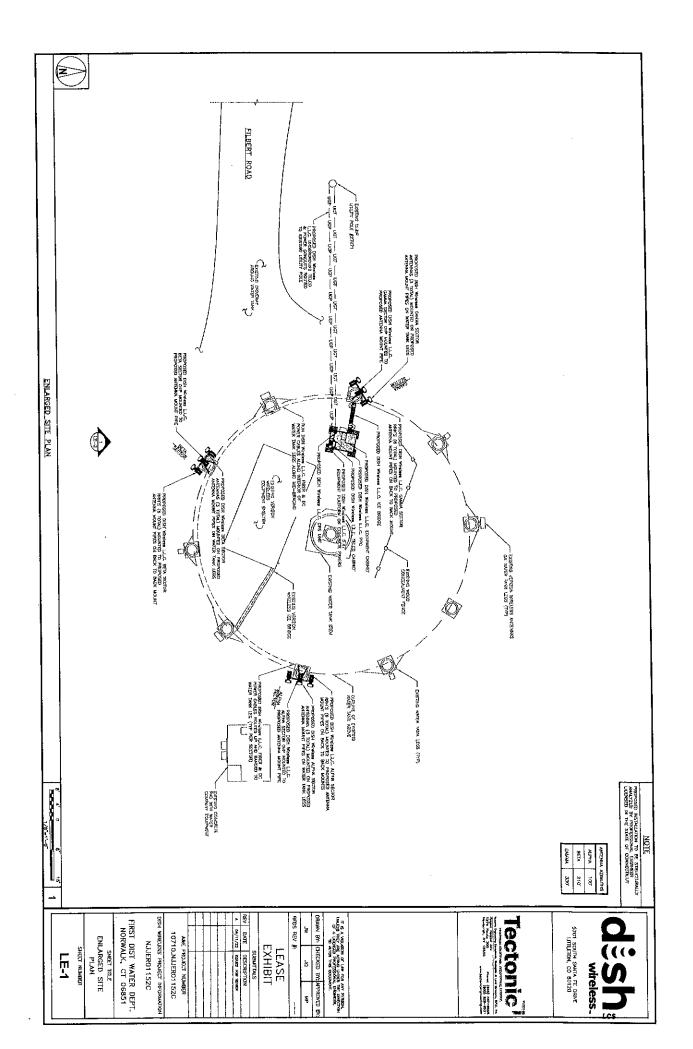
All that certain tract or parcel of land, situated in the Town of Norwalk, County of Fairfield and State of Connecticut, in area 45,131 square fest, and shown and delimated as parcel 3 on a certain map which has been approved by the Planning Commission and by the Common Council of the City of Korwalk and is on file in the office of the Town Clerk of the Town of Norwalk, and is entitled "Map of Fre-perty Prepared For Sidney I. Asp Norwalk, Conn. Scale 1"230" Feb. 22, 1960 Revised Feb. 25, 1960 By Leo Leonard, Jr., Civil Engr. & Surveyor, Norwalk, Conn. Said parcel 3 is generally bounded northerly for a distance of 283.53 fest, more or less, by land now or formerly of Leonard and Estella Tuozzolo, by land now or formerly of Mary Tuozzolo and by land now or formerly of Mary Tuozzolo and by land now or formerly of Yito Tuozzolo; essterly 193.51 feet by other land of Sidney I. Asp and Anne Ayres Asp; southerly 229.66 feet, more or less, by land now or formerly of Mary Caratone; and westerly 105.45 feet by land now or formerly of John U. and Anna B. O'Neill, by Filbert Road, and by land now or formerly of John U. and Anna B. O'Neill, by Filbert Road, and by land now or formerly of John U. and Anna B. O'Neill, by Filbert Road, and by land now or formerly of Yito Tuozzolo.

EXHIBIT B

Ground Space and License Areas

See attached drawings.

NOTE: LESSEE may be referred to in the attached as "DISH Wireless L.L.C.".



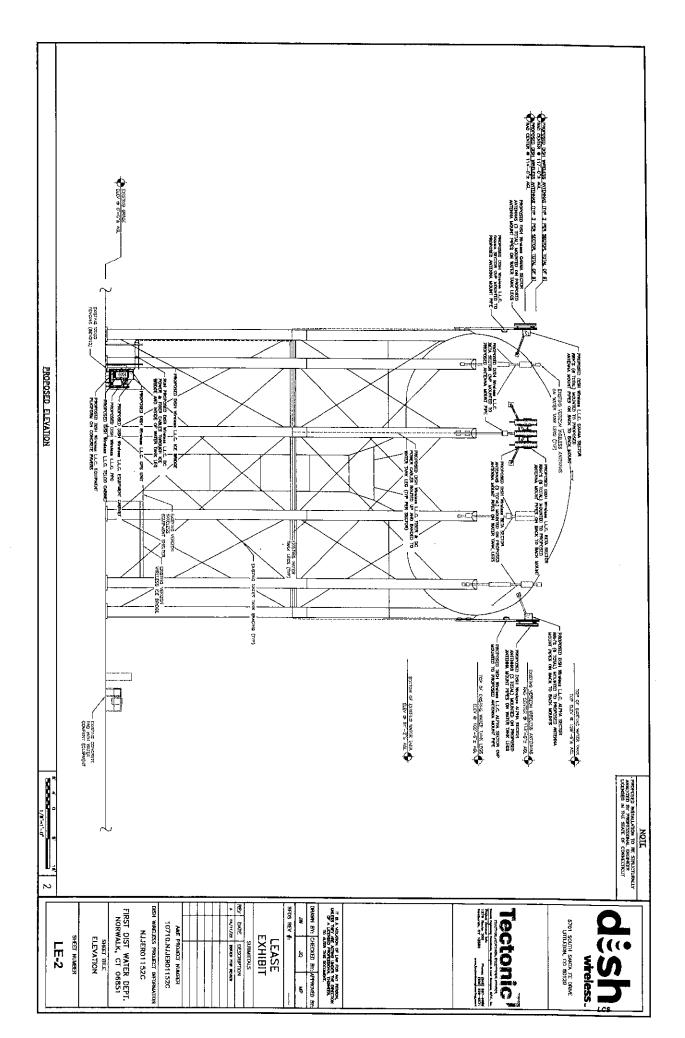


Exhibit G Mailing Receipts

FROM:

LEV MAYZLER (203) 488-0712 CONSTRUCTION SERVICES OF BRANF 63-3 NORTH BRANFORD ROAD

BRANFORD CT 06405-2848

SHIP TO:

FIRST NORWALK TAXING DISTRICT 12 NEW CANAAN AVE.

LTR 10F1

NORWALK CT 06851



CT 069 9-04

UPS 2ND DAY AIR

TRACKING #: 1Z E05 345 02 6619 9705

2



BILLING: P/P

WS 26.0,6 SHARP MX-3070 03.0A 01/2024

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

1ZE053450266199705

Service

UPS 2nd Day Air®

Delivered On

01/17/2024 11:11 A.M.

Delivered To

12 NEW CANAAN AVE NORWALK, CT, 06851, US

Received By

ANTHONY

Left At

Office

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

Sincerely,

UPS

Tracking results provided by UPS: 01/18/2024 9:26 A.M. EST

FROM: LEV MAYZLER (203) 488-0712 CONSTRUCTION SERVICES OF BRANF

63-3 NORTH BRANFORD ROAD BRANFORD CT 06405-2848

SHIP TO:

HON. HARRY RILLING 125 EAST AVE.

NORWALK CT 06856



LTR 1 0F 1

CT 069 9-04

UPS 2ND DAY AIR

TRACKING #: 1Z E05 345 02 6668 2601



BILLING: P/P

WS 26.0.6 SHARP MX-3070 03.0A 01/2024

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

1ZE053450266682601

Service

UPS 2nd Day Air®

Delivered On

01/04/2024 11:46 A.M.

Delivered To

125 EAST AVE NORWALK, CT, 06856, US

Received By

MAYOR

Left At

Inside Delivery

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

Sincerely,

UPS

Tracking results provided by UPS: 01/11/2024 6:55 A.M. EST

FROM:

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

SHIP TO:

DIRECTOR PLANNING AND ZONING MR. STEVEN KLEPPIN 125 EAST AVE.

LTR 1 OF 1

NORWALK CT 06856



CT 069 9-04

UPS 2ND DAY AIR

TRACKING #: 1Z E05 345 02 6448 2410

2



BILLING: P/P

WS 26,0,6 SHARP MX-3070 03,0A 01/2024

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

1ZE053450264482410

Service

UPS 2nd Day Air®

Delivered On

01/04/2024 11:48 A.M.

Delivered To

125 EAST AVE NORWALK, CT, 06856, US

Received By

ZECCOLA

Left At

Inside Delivery

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

Sincerely,

UPS

Tracking results provided by UPS: 01/11/2024 6:56 A.M. EST