

Northeast Site Solutions Denise Sabo 4 Angela's Way, Burlington CT 06013 denise@northeastsitesolutions.com

February 6, 2023

Members of the Siting Council Connecticut Siting Council Ten Franklin Square New Britain, CT 06051

RE: Tower Share Application 350B Cossaduck Hill Road, North Stonington CT 06359 Latitude: 41.499233 Longitude: -71.889522 Site #: CT11796-S_BOBOS00055A_SBA_DISH

Dear Ms. Bachman:

This letter and attachments are submitted on behalf of Dish Wireless LLC. Dish Wireless LLC plans to install antennas and related equipment to the tower site located at 350B Cossaduck Hill Road, North Stonington, Connecticut.

Dish Wireless LLC proposes to install three (3) 600/1900 MHz 5G antennas and six (6) RRUs, at the 168-foot level of the existing 189-foot tower, one (1) Fiber cable will also be installed. Dish Wireless LLC equipment cabinets will be placed within a 7' x 5' lease area within the fenced compound. Included are plans by B+T, dated January 26, 2023, Exhibit C. Also included is a structural analysis prepared by TES, stamped January 26, 2023, confirming that the existing tower is structurally capable of supporting the proposed equipment. Attached as Exhibit D. The facility was approved by the Connecticut Siting Council, Docket No. 420 received on February 12, 2012. Please see attached Exhibit A.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies 16-50aa, of Dish Wireless LLC intent to share a telecommunications facility pursuant to R.C.S.A. 16-50j-88. In accordance with R.C.S.A., a copy of this letter is being sent to First Selectman Bob Carlson and Nathan Reichert, Planning, Development and Zoning Official for the Town of North Stonington, as well as the tower owner and property owner.

The planned modifications of the facility fall squarely within those activities explicitly provided for in R.C.S.A. 16-50j-89.

1. The proposed modification will not result in an increase in the height of the existing structure. The top of the existing tower is 189-feet and the Dish Wireless LLC antennas will be located at a center line height of 168-feet.

2. The proposed modifications will not result in an increase of the site boundary as depicted on the attached site plan.



3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed local and state criteria. The incremental effect of the proposed changes will be negligent.

4. The operation of 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 combined site operations will result in a total power density of 4.86% as evidenced by Exhibit F.

Connecticut General Statutes 16-50aa indicates that the Council must approve the shared use of a telecommunications facility provided it finds the shared use is technically, legally, environmentally, and economically feasible and meets public safety concerns. As demonstrated in this letter, Dish Wireless LLC respectfully submits that the shared use of this facility satisfies these criteria.

A. Technical Feasibility. The existing monopole has been deemed structurally capable of supporting Dish Wireless LLC proposed loading. The structural analysis is included as Exhibit D.

B. Legal Feasibility. As referenced above, C.G.S. 16-50aa has been authorized to issue orders approving the shared use of an existing tower such as this tower in North Stonington. Under the authority granted to the Council, an order of the Council approving the requested shared use would permit Dish Wireless LLC to obtain a building permit for the proposed installation. Further, a Letter of Authorization is included as Exhibit G, authorizing Dish Wireless LLC to file this application for shared use.

C. Environmental Feasibility. The proposed shared use of this facility would have a minimal environmental impact. The installation of Dish Wireless LLC equipment at the 168-foot level of the existing 189-foot tower would have an insignificant visual impact on the area around the tower. Dish Wireless LLC ground equipment would be installed within the existing facility compound. Dish Wireless LLC shared use would therefore not cause any significant alteration in the physical or environmental characteristics of the existing site. Additionally, as evidenced by Exhibit F, the proposed antennas would not increase radio frequency emissions to a level at or above the Federal Communications Commission safety standard.

D. Economic Feasibility. Dish Wireless LLC will be entering into an agreement with the owner of this facility to mutually agreeable terms. As previously mentioned, the Letter of Authorization has been provided by the owner to assist Dish Wireless LLC with this tower sharing application.

E. Public Safety Concerns. As discussed above, the tower is structurally capable of supporting Dish Wireless LLC proposed loading. Dish Wireless LLC is not aware of any public safety concerns relative to the proposed sharing of the existing tower. Dish Wireless LLC intentions of providing new and improved wireless service through the shared use of this facility is expected to enhance the safety and welfare of local residents and individuals traveling through North Stonington.

Sincerely,

Deníse Sabo

Denise Sabo Mobile: 203-435-3640 Fax: 413-521-0558 Office: 4 Angela's Way, Burlington CT 06013 Email: denise@northeastsitesolutions.com



Attachments

Cc: First Selectman Bob Carlson North Stonington Town Hall 40 Main Street, North Stonington CT 06359

Nathan Reichert, Planning, Development and Zoning Official North Stonington Town Hall 40 Main Street, North Stonington CT 06359

Paul Buehler 350B Cossaduck Hill Rd, North Stonington CT 06359

SBA - Tower Owner

Exhibit A

Original Facility Approval

DOCKET NO. 420 - SBA Towers III and New CingularConnecticutWireless PCS, LLC application for a Certificate of Environmental
Compatibility and Public Need for the construction, maintenanceSitingand management of a telecommunications facility at one of three
sites located at 49 Mountain Avenue; 23/25 Northwest CornerCouncilRoad; or 350B Cossaduck Hill Road, North Stonington,
Connecticut.February 2, 2012

Decision and Order

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, maintenance, and management of a telecommunications facility, including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate, either alone or cumulatively with other effects, when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application, and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to SBA Towers III (SBA), hereinafter referred to as the Certificate Holder, for a telecommunications facility at Site C, located at 350B Cossaduck Hill Road, North Stonington, Connecticut. The Council denies certification of Site A and Site B, located at 49 Mountain Avenue and 23/25 Northwest Corner Road, respectively, in North Stonington, Connecticut.

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

- The tower shall be constructed as a monopole, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of New Cingular Wireless PCS, LLC (AT&T) and other entities, both public and private, but such tower shall not exceed a height of 190 feet above ground level. The height at the top of the AT&T's antennas shall not exceed 190 feet above ground level. The tower shall be designed with a yield point to ensure that the tower setback radius remains within the boundaries of the subject property.
- 2. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be served on the Town of North Stonington for comment, and all parties and intervenors as listed in the service list, and submitted to and approved by the Council prior to the commencement of facility construction and shall include:
 - a) a final site plan(s) of site development to include specifications for the tower, tower foundation, antennas, equipment compound, radio equipment, access road, utility line, and landscaping; and
 - b) construction plans for site clearing, grading, landscaping, water drainage, and erosion and sedimentation controls consistent with the <u>2002 Connecticut Guidelines for Soil Erosion and Sediment Control</u>, as amended.

- 3. Prior to the commencement of operation, the Certificate Holder shall provide the Council worst-case modeling of the electromagnetic radio frequency power density of all proposed entities' antennas at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 65, August 1997. The Certificate Holder shall ensure a recalculated report of the electromagnetic radio frequency power density be submitted to the Council if and when circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.
- 4. Upon the establishment of any new State or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.
- 5. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.
- 6. The Certificate Holder shall provide reasonable space on the tower for no compensation for any Town of North Stonington public safety services (police, fire and medical services), provided such use can be accommodated and is compatible with the structural integrity of the tower.
- 7. Unless otherwise approved by the Council, if the facility authorized herein is not fully constructed with at least one fully operational wireless telecommunications carrier providing wireless service within eighteen months from the date of the mailing of the Council's Findings of Fact, Opinion, and Decision and Order (collectively called "Final Decision"), this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council's Final Decision shall not be counted in calculating this deadline. Authority to monitor and modify this schedule, as necessary, is delegated to the Executive Director. The Certificate Holder shall provide written notice to the Executive Director of any schedule changes as soon as is practicable.
- 8. Any request for extension of the time period referred to in Condition 7 shall be filed with the Council not later than 60 days prior to the expiration date of this Certificate and shall be served on all parties and intervenors, as listed in the service list, and the Town of North Stonington. Any proposed modifications to this Decision and Order shall likewise be so served.
- 9. If the facility ceases to provide wireless services for a period of one year, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.
- 10. Any nonfunctioning antenna, and associated antenna mounting equipment, on this facility shall be removed within 60 days of the date the antenna ceased to function.
- 11. In accordance with Section 16-50j-77 of the Regulations of Connecticut State Agencies, the Certificate Holder shall provide the Council with written notice two weeks prior to the commencement of site construction activities. In addition, the Certificate Holder shall provide the Council with written notice of the completion of site construction, and the commencement of site operation.

- 12. The Certificate Holder shall remit timely payments associated with annual assessments and invoices submitted by the Council for expenses attributable to the facility under Conn. Gen. Stat. §16-50v.
- 13. This Certificate may be transferred in accordance with Conn. Gen. Stat. §16-50k(b), provided both the Certificate Holder/transferor and the transferee are current with payments to the Council for their respective annual assessments and invoices under Conn. Gen. Stat. §16-50v. In addition, both the Certificate Holder/transferor and the transferee shall provide the Council a written agreement as to the entity responsible for any quarterly assessment charges under Conn. Gen. Stat. §16-50v(b)(2) that may be associated with this facility.
- 14. The Certificate Holder shall maintain the facility and associated equipment, including but not limited to, the tower, tower foundation, antennas, equipment compound, radio equipment, access road, utility line and landscaping in a reasonable physical and operational condition that is consistent with this Decision and Order and a Development and Management Plan to be approved by the Council.
- 15. If the Certificate Holder is a wholly-owned subsidiary of a corporation or other entity and is sold/transferred to another corporation or other entity, the Council shall be notified of such sale and/or transfer and of any change in contact information for the individual or representative responsible for management and operations of the Certificate Holder within 30 days of the sale and/or transfer.

Pursuant to General Statutes § 16-50p, the Council hereby directs that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in <u>The Day</u>.

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

The parties and intervenors to this proceeding are:

<u>Applicant</u>

SBA Towers III (SBA) and New Cingular Wireless PCS, LLC (AT&T)

Its Representative

Daniel M. Laub, Esq. Christopher B Fisher, Esq. Cuddy & Feder LLP 445 Hamilton Avenue, 14th Floor White Plains, NY 10601

Hollis Redding SBA One Research Drive, Suite 200C Westborough, MA 01581

Michele Briggs AT&T 500 Enterprise Drive Rocky Hill, CT 06067-3900 Docket No. 420 Decision and Order Page 4

Intervenor

Peter R. and Gisele A. Buehler

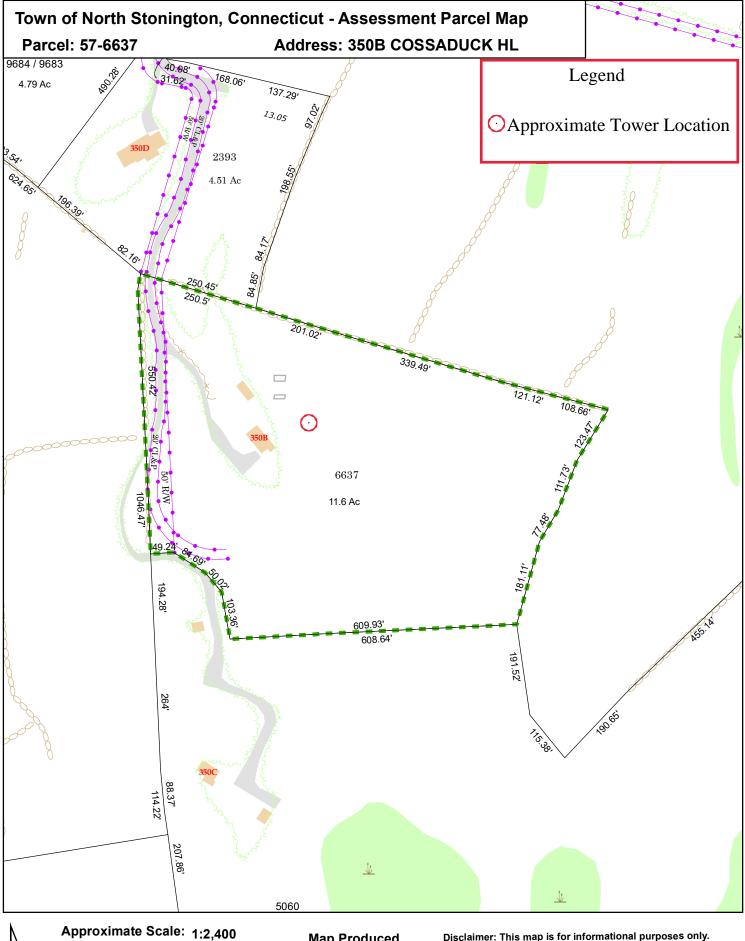
Its Representative

Peter R. and Gisele A. Buehler 350D Cossaduck Hill Rd. North Stonington, CT 06359

16247 Fringe Tree Drive Spring Hill, FL 34610

Exhibit B

Property Card



0 45 90 180 270 360

Map Produced November 2019 Disclaimer: This map is for informational purposes only. All information is subject to verification by any user. The Town of North Stonington and its mapping contractors assume no legal responsibility for the information contained herein.



Town of North Stonington, CT

Property Listing Report

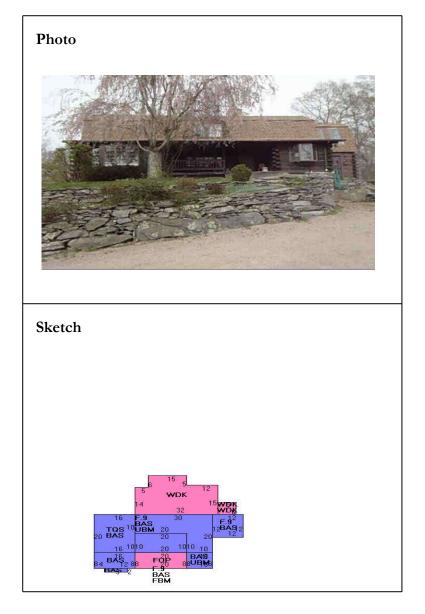
Map Block Lot 57-6637

Account

B1909000

Property Information

Property Location	3	50B CO	SSADUCK HL		
Owner	В	BUEHLER PAUL R			
Co-Owner					
Mailing Address			SSADUCK HILL	Ст	06359
Land Use	0	101	SINGLE FA	N	
Land Class	R	1			
Zoning Code	R	80			
Census Tract	7	071			
Sub Lot					
Neighborhood		0500			
Acreage		11.66			
Utilities		Well,Se	eptic		
Lot Setting/Desc		Rural	Rolling		
Survey Map					
Additional Info					



Primary Construction Details

1979
1.9
Log Home
Residential
Average +20
Hardwood
7 Rooms

Bedrooms	3 Bedrooms
Full Bathrooms	3
Half Bathrooms	0
Bath Style	Average
Kitchen Style	Average
Roof Style	Gambrel
Roof Cover	Asphalt Shingl

Exterior Walls	Logs
Interior Walls	Drywall/Sheet
Heating Type	Hot Water
Heating Fuel	Oil
АС Туре	None
Gross Bldg Area	3828
Total Living Area	2184



Valuation Summary (Assessed value = 70% of Appraised Value)

Item	Appraised	Assessed
Buildings	176400	123480
Extras	2400	1680
Outbuildings	24200	16940
Land	225000	157500
Total	428000	299600

Sub Areas

Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
Basement, Finished	200	0
Three Quarter Story	320	224
First Floor	1290	1290
Ninety stry, Fin	744	670
Porch, Open, Finished	160	0
Basement, Unfinished	480	0
Deck, Wood	634	0
Total Area	3828	2184

Outbuilding and Extra Items

Туре	Description
2 STORY CHIM	1.00 UNITS
BARN 2ST/W FIN	640.00 S.F.
ABV-GR POOL ROUND	30.00 DIAMETER
SHED FRAME	96.00 S.F.
WOOD DECK	60.00 S.F.
WOOD DECK	144.00 S.F.
BATHRM, OUTBLD	1.00 UNITS
SHED FRAME	36.00 S.F.
SCREEN HOUSE	100.00 S.F.
SHED FRAME	160.00 S.F.

Sales History

Owner of Record	Book/ Page	Sale Date	Sale Price
BUEHLER PAUL R	64/ 289	8/27/1985	0

Exhibit C

Construction Drawings

			SITE INF	ORMATION	Γ
			PROPERTY OWNER: ADDRESS:	BUEHLER PAUL R & SABRINA 350B COSSADUCK HL NORTH STONINGTON, CT 06359	Af
		By sroth at 5:10:49 PM, 1/26/2023	TOWER TYPE: TOWER CO SITE ID:	MONOPOLE CT11796-S	T
		SCOPE OF WORK	TOWER APP NUMBER:	178876	
	•	THIS IS NOT AN ALL INCLUSIVE LIST. CONTRACTOR SHALL UTILIZE SPECIFIED EQUIPMENT PART OR ENGINEER	COUNTY:	NEW LONDON	s
	wireless	APPROVED EQUIPMENT ALL INCLOSING STALL VERIFY ALL NEEDED EQUIPMENT TO PROVIDE A FUNCTIONAL SITE. THE PROJECT GENERALLY CONSISTS OF THE FOLLOWING:	LATITUDE (NAD 83):	41'29'57.2"N 41.499233	
		TOWER SCOPE OF WORK: • INSTALL (3) PROPOSED PANEL ANTENNAS (1 PER SECTOR) • INSTALL (1) PROPOSED ANTENNA PLATFORM MOUNT	LONGITUDE (NAD 83):	71' 53' 22.3" W -71.889522	
	DISH Wireless L.L.C. SITE ID:	INSTALL PROPOSED JUMPERS INSTALL (6) PROPOSED RRUS (2 PER SECTOR) INSTALL (1) PROPOSED OVER VOLTAGE PROTECTION DEVICE (OVP)	ZONING JURISDICTION:		S
	BOBOS00055A	INSTALL (1) PROPOSED HYBRID CABLE GROUND SCOPE OF WORK: INSTALL (1) DEODESED METAL DIATEODY	ZONING DISTRICT: PARCEL NUMBER:	R80 57-6637	с
	DISH Wireless L.L.C. SITE ADDRESS:	INSTALL (1) PROPOSED METAL PLATFORM INSTALL (1) PROPOSED ICE BRIDGE INSTALL (1) PROPOSED PPC CABINET INSTALL (1) PROPOSED PPC CABINET	OCCUPANCY GROUP:	U	R
250		INSTALL (1) PROPOSED EQUIPMENT CABINET INSTALL (1) PROPOSED POWER CONDUIT INSTALL (1) PROPOSED TELCO CONDUIT	CONSTRUCTION TYPE:	II-B	
	DB COSSADUCK HILL ROAD	 INSTALL (1) PROPOSED TELCO-FIBER BOX INSTALL (1) PROPOSED GPS UNIT INSTALL (1) PROPOSED FIBER NID (IF REQUIRED) 	POWER COMPANY:	EVERSOURCE	
NOF	RTH STONINGTON, CT 06359		TELEPHONE COMPANY:	FIBERTECH CROWN	
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LS1	SITE SURVEY				/
A-1 A-2 A-3	OVERALL AND ENLARGED SITE PLAN ELEVATION, ANTENNA LAYOUT AND SCHEDULE EQUIPMENT PLATFORM AND H-FRAME DETAILS			201	_
A-4	EQUIPMENT DETAILS				
A-5 A-6	EQUIPMENT DETAILS EQUIPMENT DETAILS			COSSOC	
E-1 E-2	ELECTRICAL/FIBER ROUTE PLAN AND NOTES ELECTRICAL DETAILS				
E-2 E-3	ELECTRICAL DETAILS ELECTRICAL ONE-LINE, FAULT CALCS & PANEL SCHEDULE	UNDERGROUND SERVICE ALERT CBYD 811 UTILITY NOTIFICATION CENTER OF CONNECTICUT (800) 922-4455			
G-1 G-2	GROUNDING PLANS AND NOTES GROUNDING DETAILS	WWW.CBYD.COM	AN LOS	,	No Stoni
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RF-1		GENERAL NOTES	201		
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GN-3 GN-4 GN-5	GENERAL NOTES GENERAL NOTES GENERAL NOTES	SIGNAGE IS PROPOSED.			
		11"x17" PLOT WILL BE HALF SCALE UNLESS OTHERWISE NOTED			
		CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND CONDITIONS ON THE JOB SITE, AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.	NO SCALE		
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PROJECT DIRECTORY

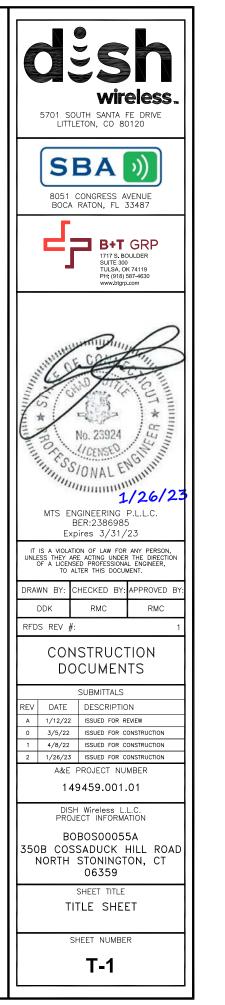
APPLICANT:	DISH Wireless L.L.C. 5701 SOUTH SANTA FE DRIVE LITTLETON, CO 80120
TOWER OWNER:	SBA COMMUNICATAIONS CORP. 8051 CONGRESS AVENUE BOCA RATON, FL 33487 (800) 487–7483
SITE DESIGNER:	B+T GROUP 1717 S. BOULDER AVE, SUITE 300 TULSA, OK 74119 (918) 587-4630
SITE ACQUISITION:	APRIL PARROTT APRIL.PARROTT@DISH.COM
CONST. MANAGER:	CHAD WILCOX CHAD.WILCOX@DISH.COM
RF ENGINEER:	DIPESH PARIKH DIPESH.PARIKH@DISH.COM

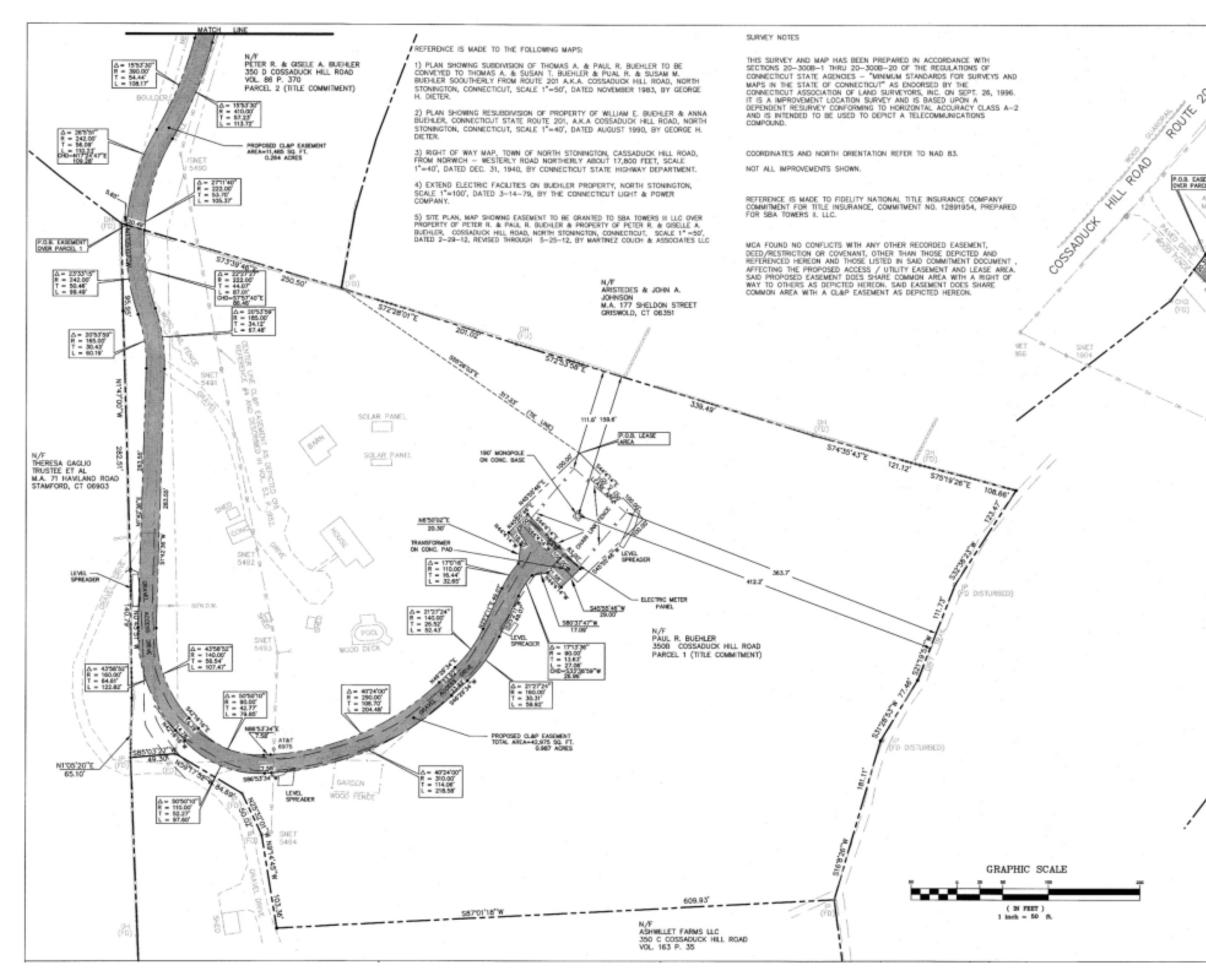
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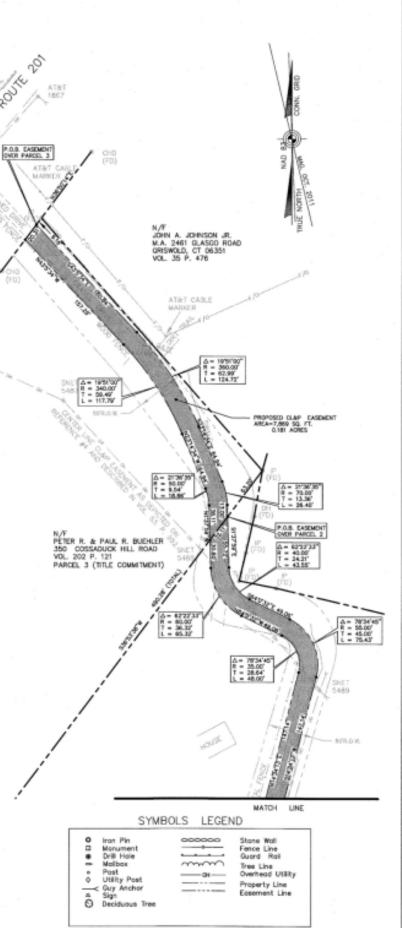
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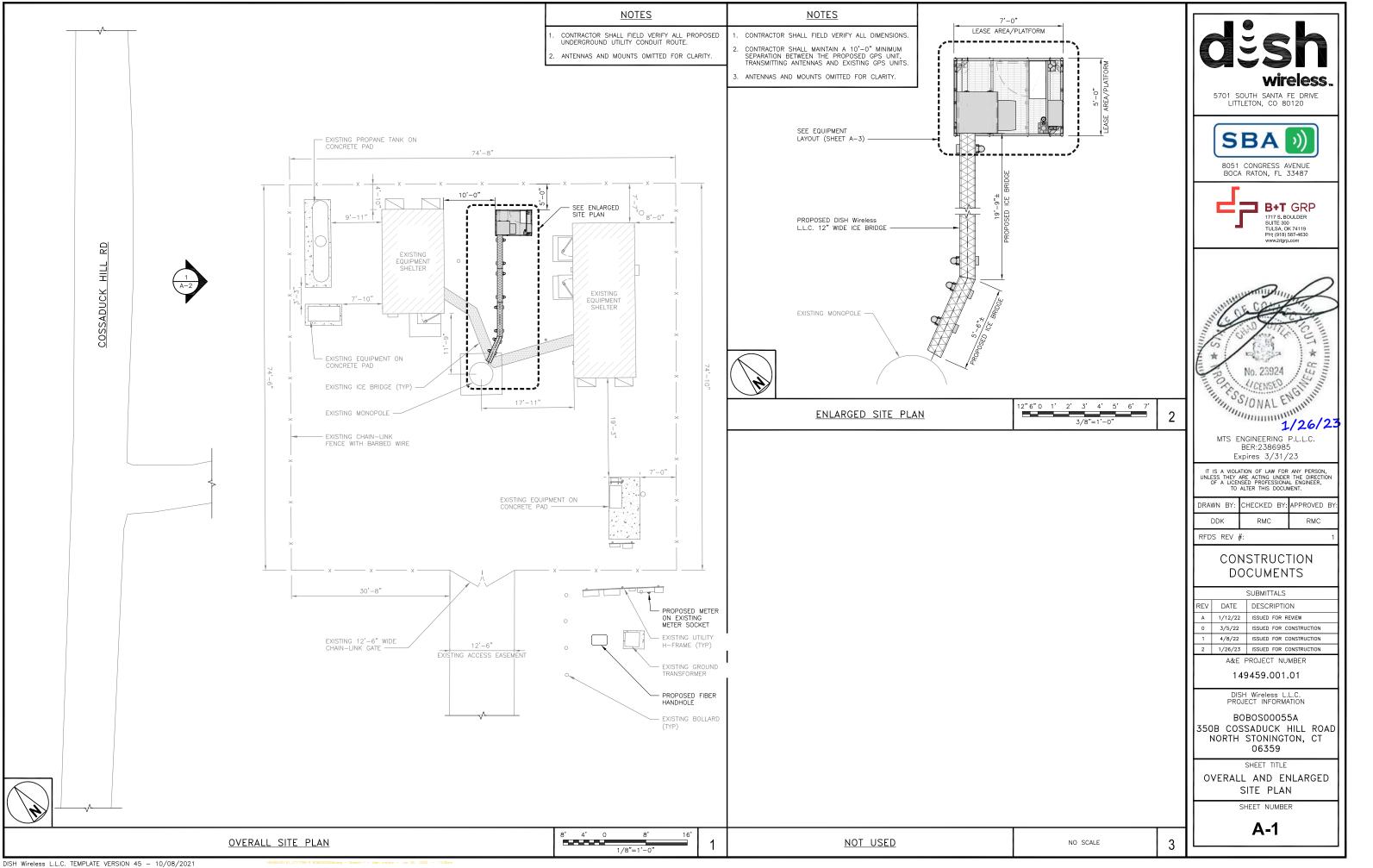
RIGHT ONTO WARWICK INDUSTRIAL DR. TURN RIGHT IT LANE TO MERGE WITH I-95 S VIA THE RAMP TO -95 S. TAKE EXIT 5A TO MERGE WITH RI-102 S INTINUE TO FOLLOW RI-3 S. TURN RIGHT ONTO 55 W. SLIGHT LEFT ONTO CT-165 W/CT-49 S. 11 S. TURN LEFT. ARRIVE AT BOBOSO0055A.





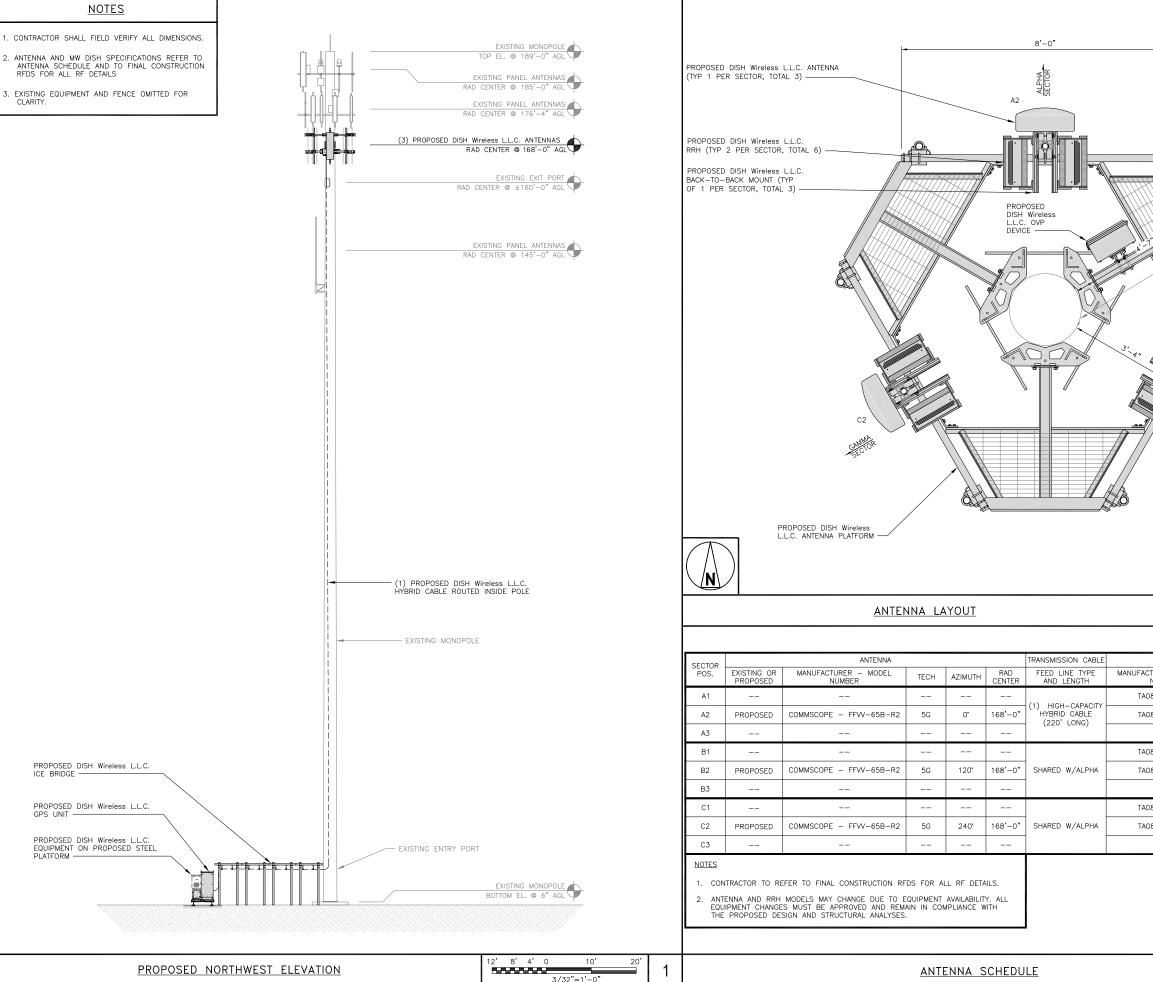




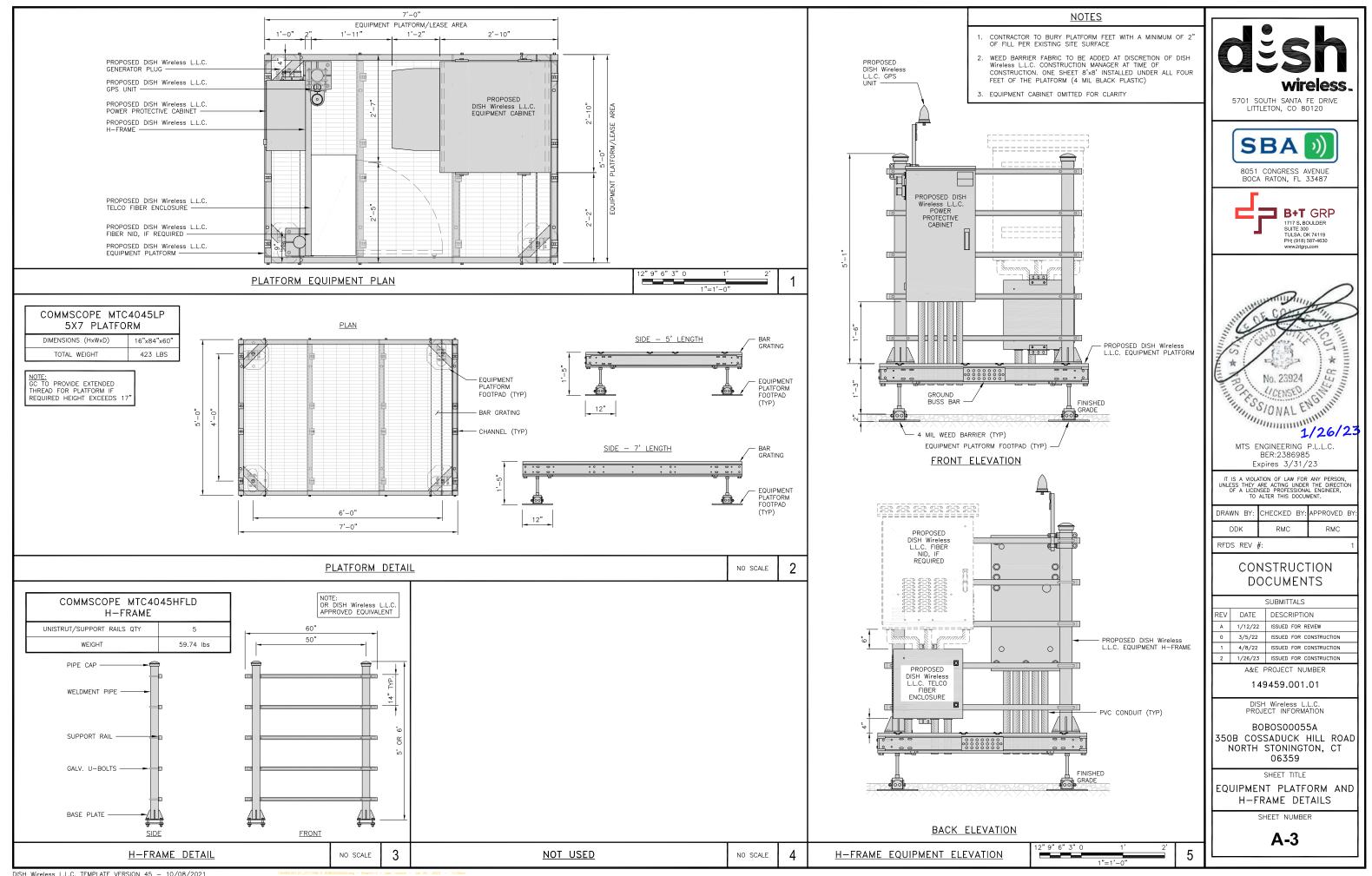


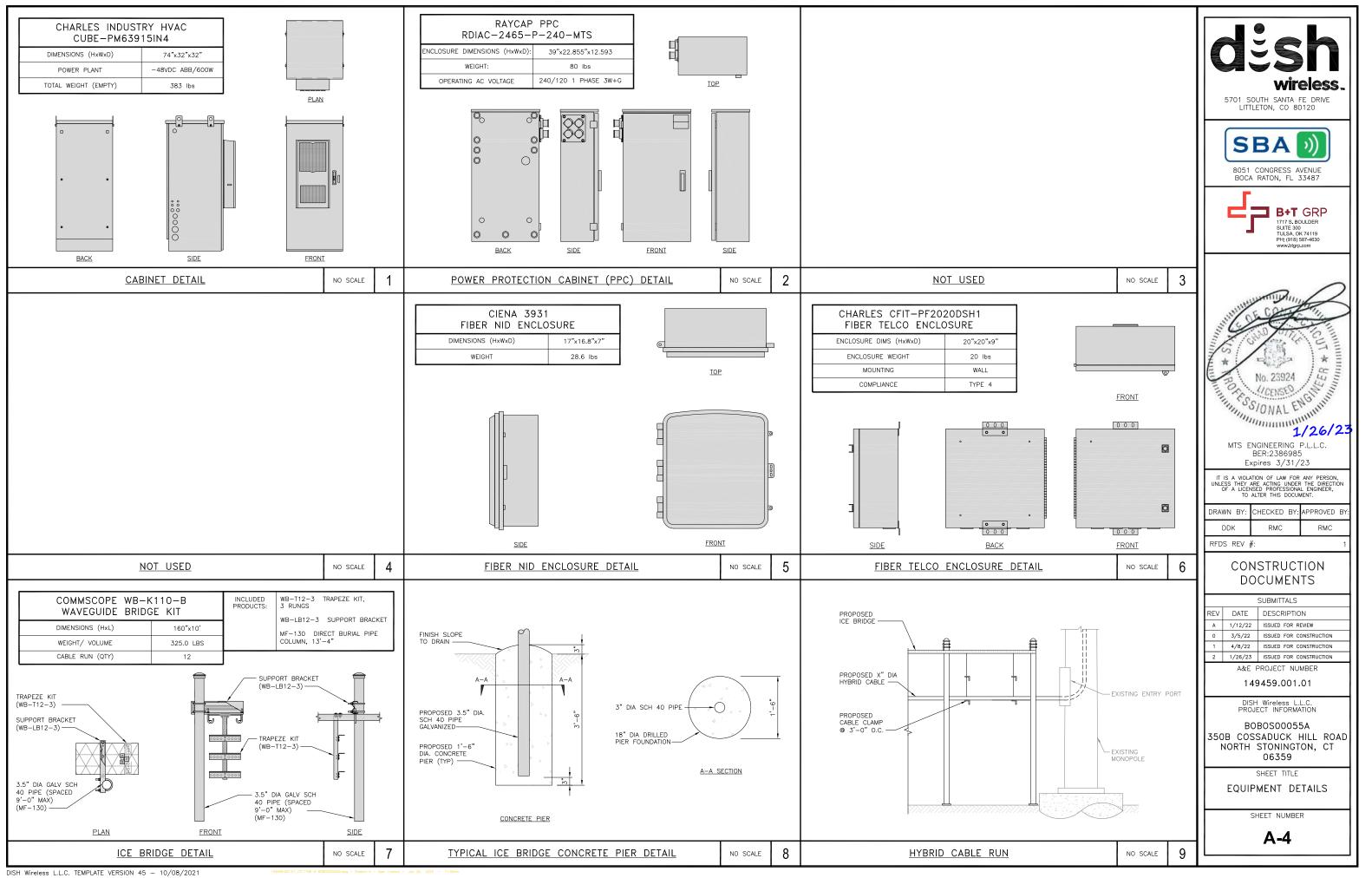
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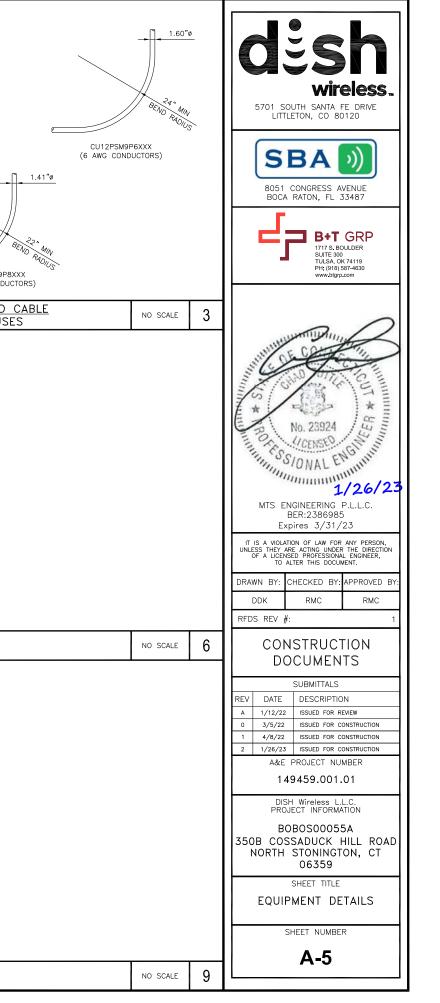


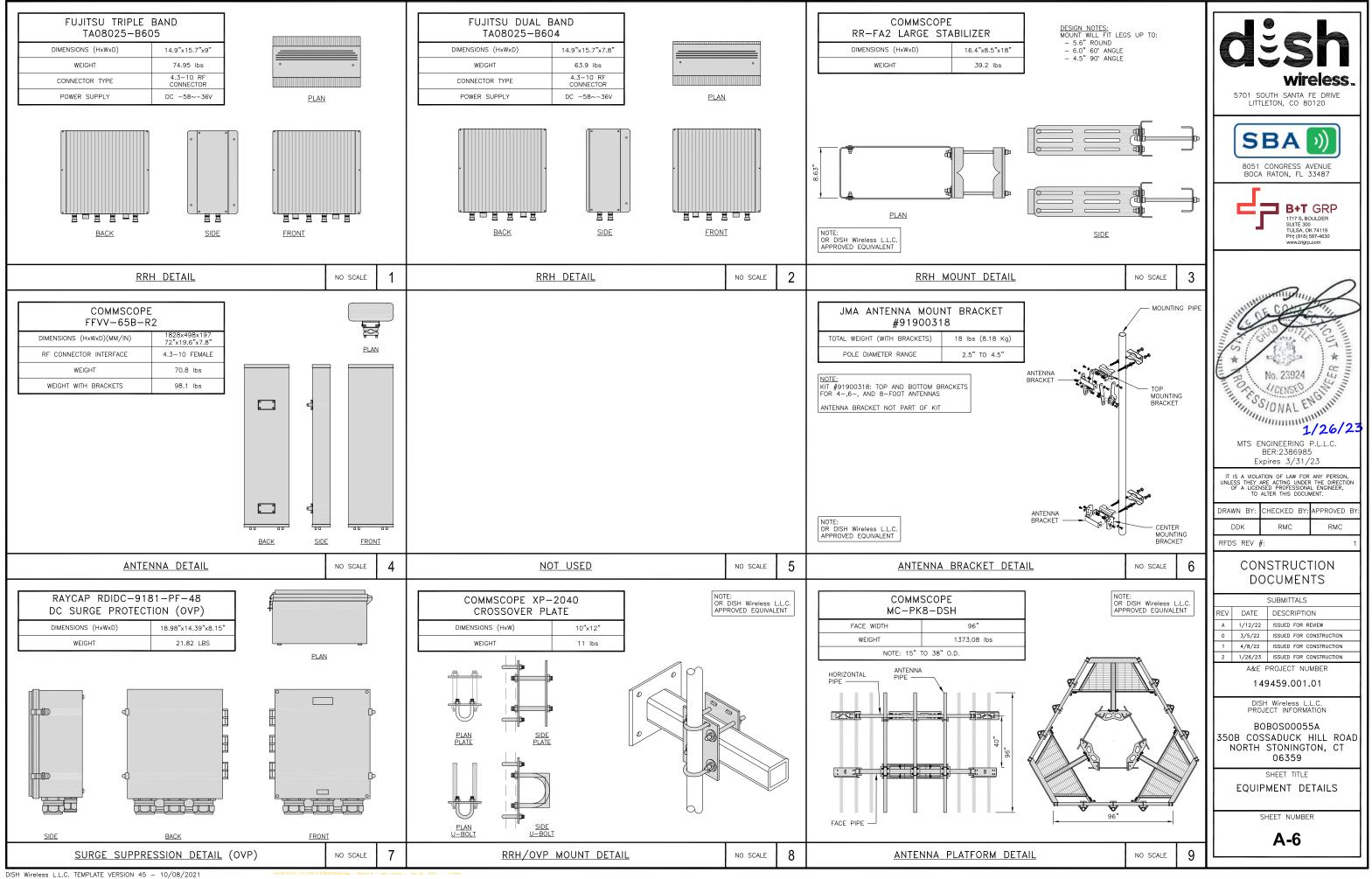
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08025-B604	5G	B2			2 1/26/23 ISSUED FOR CONSTRUCTION
08025-B605	5G	B2	SHARE W/ALPI		A&E PROJECT NUMBER 149459.001.01
08025-B604	5G	C2			DISH Wireless L.L.C. PROJECT INFORMATION
08025-B605	5G	C2	SHARE W/ALPI		BOBOS00055A
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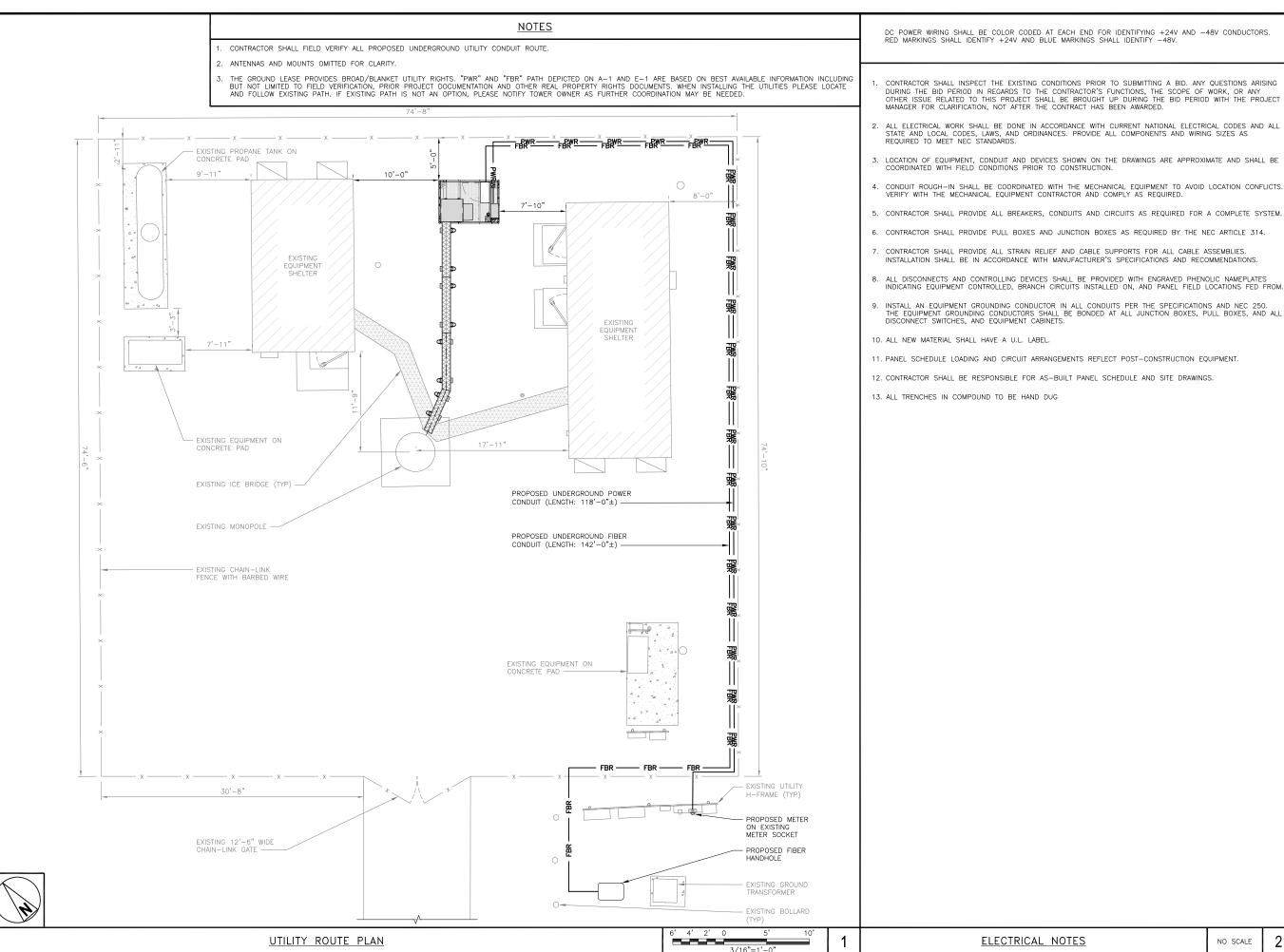


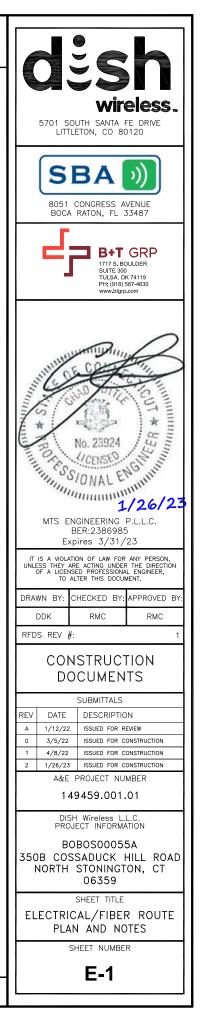


PCTEL GPSGL-TMG-SPI-40NCB DIMENSIONS (DIAXH) MM/INCH 81x184mm 3.2"x7.25" WEIGHT W/ACCESSORIES 075 lbs CONNECTOR N-FEMALE FREQUENCY RANGE 1590 ± 30MHz			MINIMUM OF 75% OR 270' IN ANY DIRECTION GPS GPS UNIT GPS			CU12PSM6P4XXX (4 AWG CONDUCTORS) CU12PSM6P4XXX (4 AWG CONDUCTORS)
<u>GPS_DETAIL</u>	NO SCALE	1	GPS MINIMUM SKY VIEW REQUIREMENTS	NO SCALE	2	CABLES UNLIMITED HYBRID MINIMUM BEND RADIUSI
NOT USED	NO SCALE	4	NOT USED	NO SCALE	5	NOT USED
NOT USED	NO SCALE	7	NOT USED	NO SCALE	8	NOT USED
DISH Wireless L.L.C. TEMPLATE VERSION 45 - 10/08/2021	-S BOBOSO0055A.dwg - Sheet:A-5 - User	ser: rcarson -	Jon 28, 2023 – 11:30am			



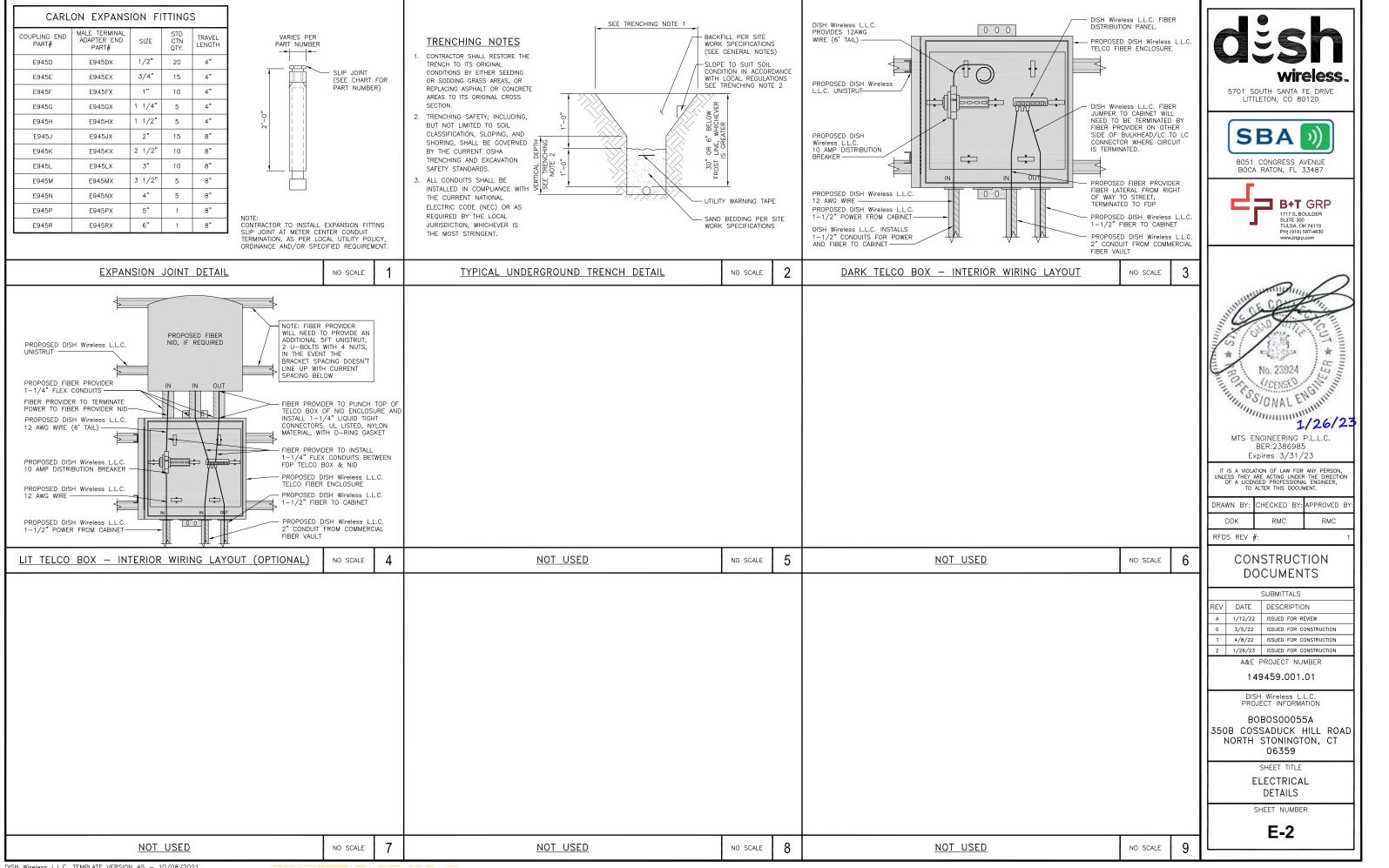




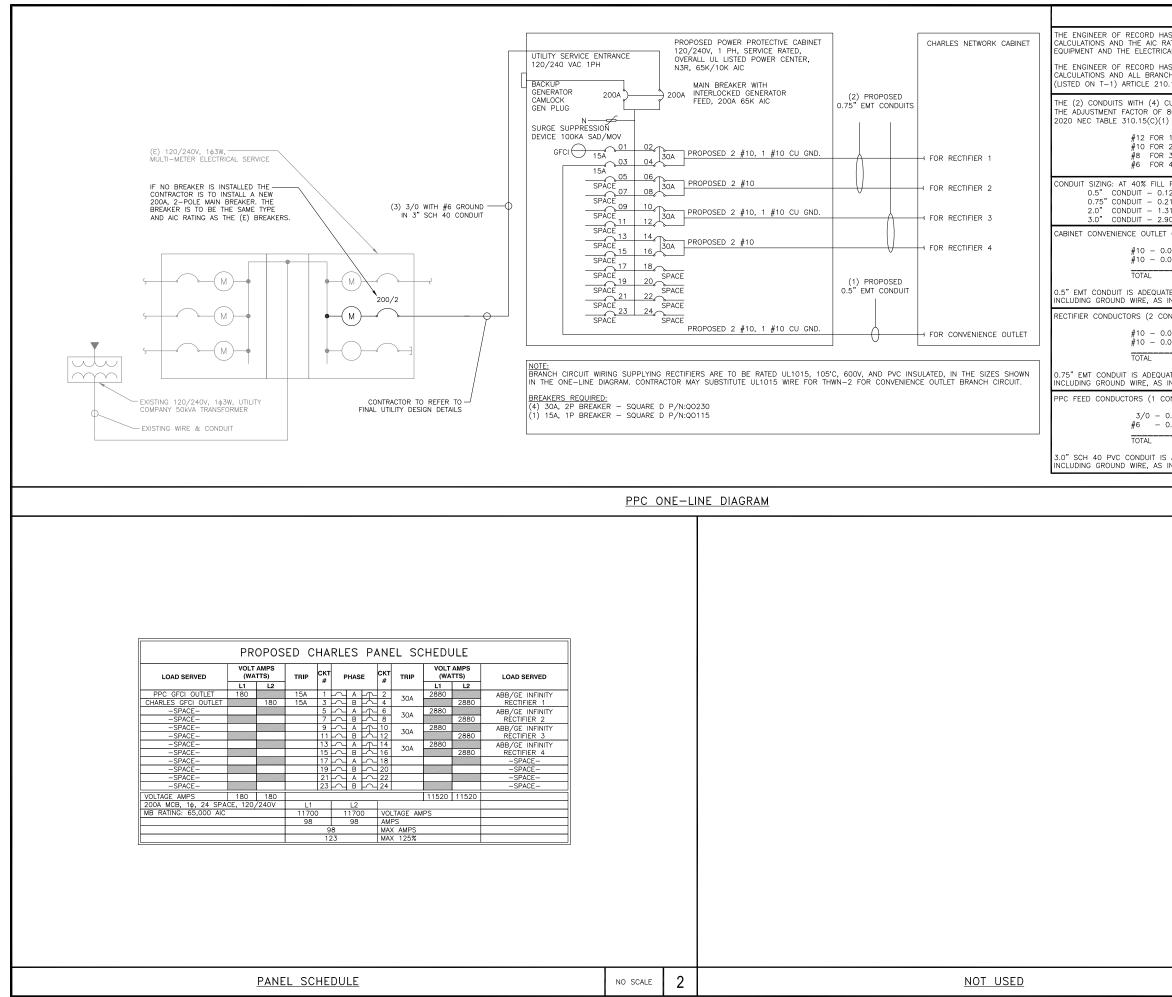


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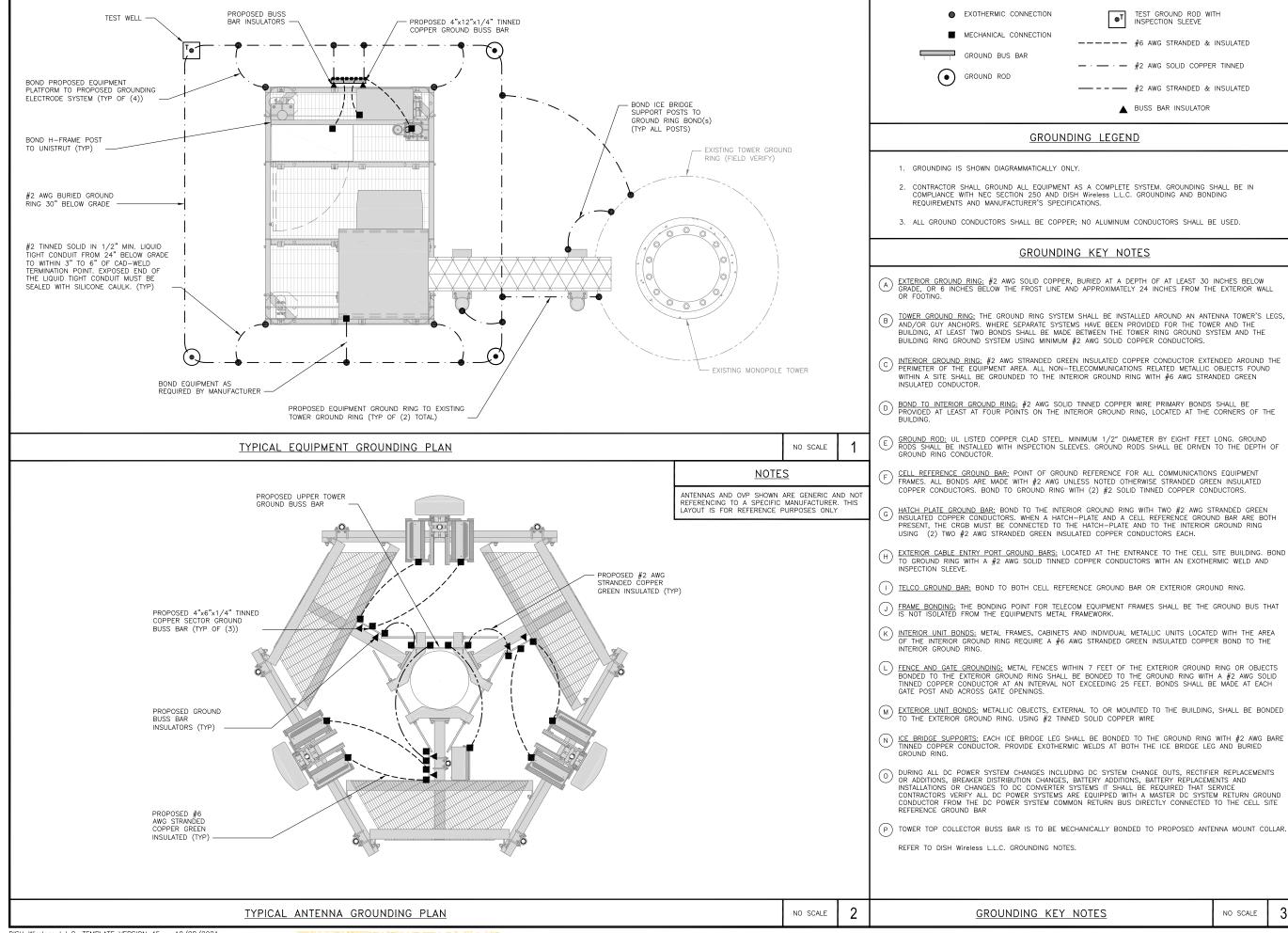
NO SCALE



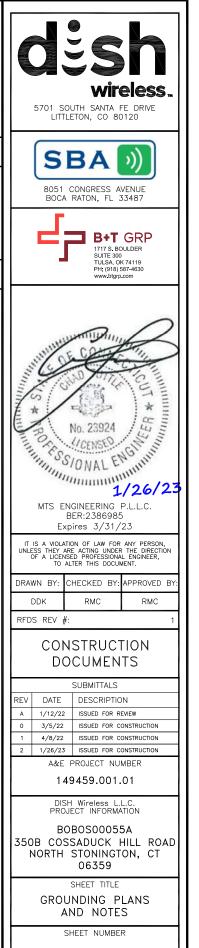
DISH Wireless L.L.C. TEMPLATE VERSION 45 - 10/08/2021



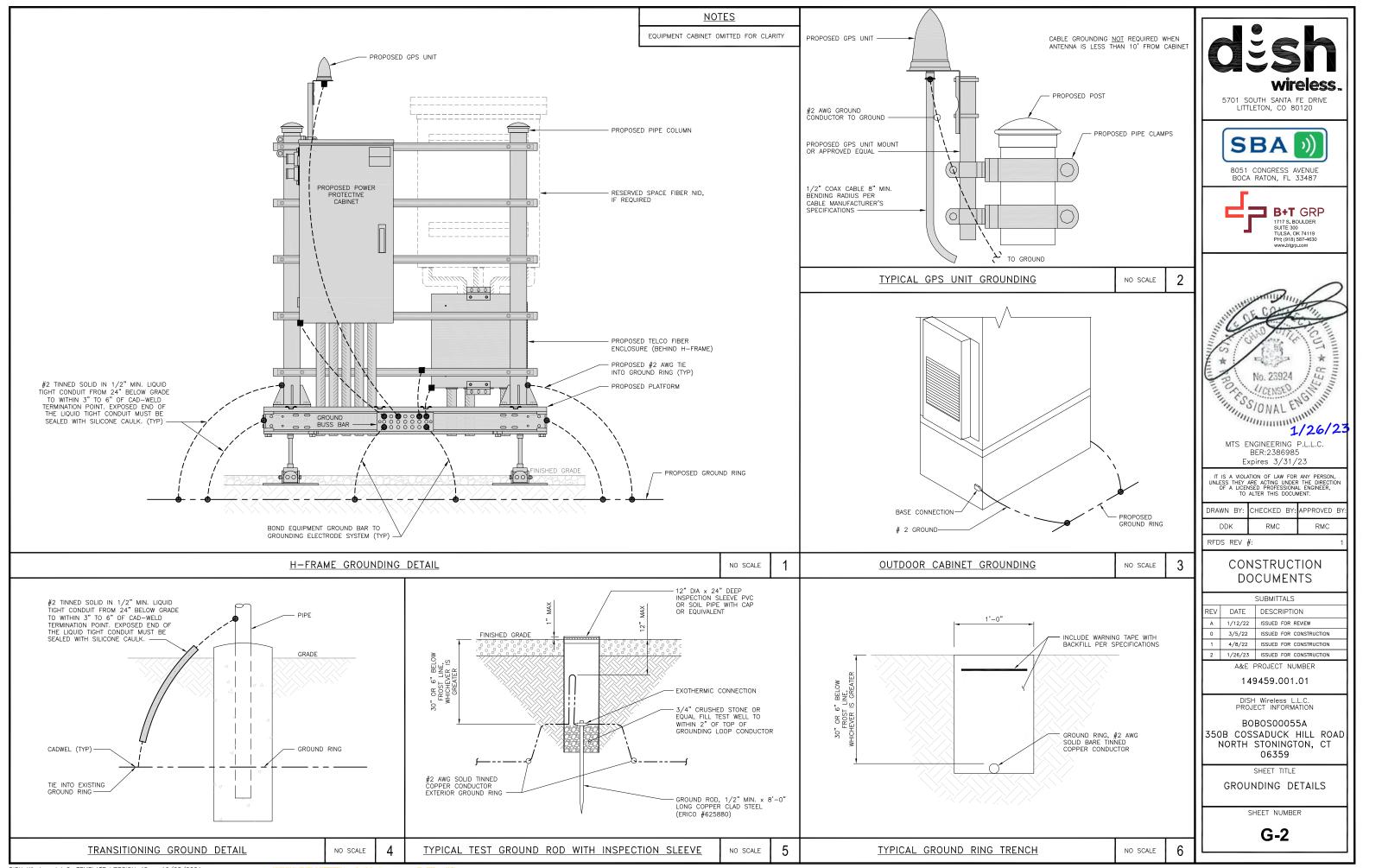
NOTES HAS PERFORMED ALL REQUIRED SHORT CIRCUIT RATINGS FOR EACH DEVICE IS ADEQUATE TO PROTECT THE	_
ICAL SYSTEM.	dich
HAS PERFORMED ALL REQUIRED VOLTAGE DROP NCH CIRCUIT AND FEEDERS COMPLY WITH THE NEC 10.19(A)(1) FPN NO. 4.	džsn
CURRENT CARRYING CONDUCTORS EACH, SHALL APPLY 80% PER 2014/17 NEC TABLE 310.15(B)(3)(a) OR 1) FOR UL1015 WIRE.	Wireless 5701 SOUTH SANTA FE DRIVE LITTLETON, CO 80120
R 15A-20A/1P BREAKER: 0.8 x 30A = 24.0A R 25A-30A/2P BREAKER: 0.8 x 40A = 32.0A R 35A-40A/2P BREAKER: 0.8 x 55A = 44.0A R 45A-60A/2P BREAKER: 0.8 x 75A = 60.0A	SBA D
L PER NEC CHAPTER 9, TABLE 4, ARTICLE 358.).122 SQ. IN AREA).213 SQ. IN AREA .316 SQ. IN AREA .907 SQ. IN AREA .907 SQ. IN AREA	8051 CONGRESS AVENUE BOCA RATON, FL 33487
ET CONDUCTORS (1 CONDUIT): USING THWN-2, CU.	
0.0211 SQ. IN X 2 = 0.0422 SQ. IN 0.0211 SQ. IN X 1 = 0.0211 SQ. IN <ground = 0.0633 SQ. IN</ground 	B+T GRP 17/1 S.BOULDER SUITE 300 TULSA, OK 74/19 PH: (918) 657-4630
ATE TO HANDLE THE TOTAL OF (3) WIRES, S INDICATED ABOVE.	www.btgrp.com
CONDUITS): USING UL1015, CU.	\sim
0.0266 SQ. IN X 4 = 0.1064 SQ. IN 0.0082 SQ. IN X 1 = 0.0082 SQ. IN = 0.1146 SQ. IN	William Contraction
UATE TO HANDLE THE TOTAL OF (5) WIRES,	
S INDICATED ABOVE. CONDUIT): USING THWN, CU.	ILS STATES
0.2679 SQ. IN X 3 = 0.8037 SQ. IN 0.0507 SQ. IN X 1 = 0.0507 SQ. IN <ground< td=""><td>* No. 23924</td></ground<>	* No. 23924
= 0.8544 SQ. IN	I CENSED S
IS ADEQUATE TO HANDLE THE TOTAL OF (4) WIRES, S INDICATED ABOVE.	No. 23924
	Mannan minner
NO SCALE 1	1/20/20
ł	MTS ENGINEERING P.L.L.C. BER:2386985 Expires 3/31/23
	IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.
	DRAWN BY: CHECKED BY: APPROVED BY:
	DDK RMC RMC
11	RFDS REV #: 1
	CONSTRUCTION DOCUMENTS
	SUBMITTALS
	REV DATE DESCRIPTION
	A 1/12/22 ISSUED FOR REVIEW
	0 3/5/22 ISSUED FOR CONSTRUCTION 1 4/8/22 ISSUED FOR CONSTRUCTION
	2 1/26/23 ISSUED FOR CONSTRUCTION
	A&E PROJECT NUMBER 149459.001.01
	DISH Wireless L.L.C. PROJECT INFORMATION
	BOBOS00055A 350B COSSADUCK HILL ROAD NORTH STONINGTON, CT 06359
	SHEET TITLE ELECTRICAL ONE-LINE, FAULT CALCS & PANEL SCHEDULE
	SHEET NUMBER
	E-3
NO SCALE 3	



3

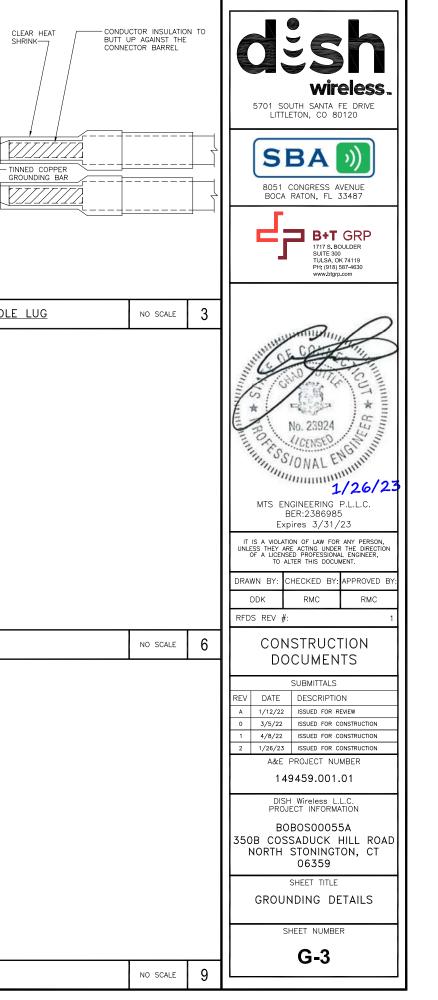


G-1



DISH Wireless L.L.C. TEMPLATE VERSION 45 - 10/08/2021 14949.00101_C111796-5 B080500556.4eg - SheetC-2 - User room

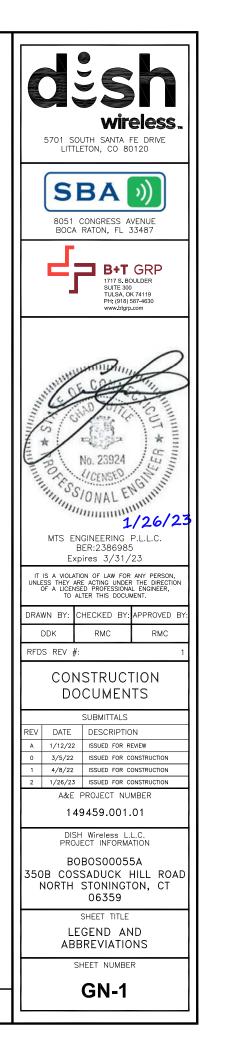
	 EXOTHERMIC WELD (2) TWO, #2 AWG BARE TINNED SOLID COPPER CONDUCTORS TO GR BAR. ROUTE CONDUCTORS TO BURIED GROUND RING AND PROVIDE PARALLEL EXOTHERN WELD. ALL EXTERIOR GROUNDING HARDWARE SHALL BE STAINLESS STEEL 3/8" DIAMETER OR I ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING LOCK WASHERS, COAT ALL SURFACE AN ANTI-OXIDANT COMPOUND BEFORE MATING. FOR GROUND BOND TO STEEL ONLY: COAT ALL SURFACES WITH AN ANTI-OXIDANT COM BEFORE MATING. DO NOT INSTALL CABLE GROUNDING KIT AT A BEND AND ALWAYS DIRECT GROUND CONI DOWN TO GROUNDING BUS. NUT & WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUND BAR AND BO THE BACK SIDE. ALL GROUNDING PARTS AND EQUIPMENT TO BE SUPPLIED AND INSTALLED BY CONTRACT THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ADDITIONAL GROUND BAR AS REQUIRED. ENSURE THE WIRE INSULATION TERMINATION IS WITHIN 1/8" OF THE BARREL (NO SHINK 	LARGER. IS WITH IPOUND DUCTOR DUCTOR DLTED ON TOR. S		TOOTHED EXTERIOR TWO-HOLE SHRINK UV BUTT	UCTOR INSULATIO UP AGAINST THE ECTOR BARREL		EXTERNAL INSPECTION WINDOW IN BARREL, REQUIRED FOR ALL INTERIOR TWO-HOLE CONNECTORS 3/8" DIA x1 1/2" S/S NUT S/S LOCK WASHER S/S FLAT WASHER S/S FLAT S/S BOLT (1 OF 2) 1/16" MINIMUM SPACING
ľ	TYPICAL GROUNDING NOTES	NO SCALE	1	TYPICAL EXTERIOR TWO HOLE LUG	NO SCALE	2	TYPICAL INTERIOR TWO HO
	NOTE: MINIMUM OF 3 THREADS TO BE VISIBLE (TYP) 2 HOLE LONG BARREL TINNED SOLID COPPER LUG (TYP) TIN COATED SOLID COPPER BUS BAR COPPER BUS BAR CHERRY INSULATOR INSTALLED IF REQUIRED	VASHER (TYP) ASHER (TYP) ASHER (TYP)					
ŀ	LUG DETAIL	NO SCALE	4	NOT USED	NO SCALE	5	NOT USED
	NOT USED	NO SCALE	7	<u>NOT_USED</u>	NO SCALE	8	<u>NOT USED</u>



LOW-BAND RRH (600 MHz N71 BASEBAND) + (850 MHz N26 BAND) + (700 MHz N29 BAND) - OPTIONAL PER MARKET ADD FREQUENCY COLOR TO SECTOR BAND (CBRS WILL USE YELLOW BAND)	ALPHA RRH PORT 1 PORT 2 PORT 3 PORT + SLANT - SLANT + SLANT - SLA RED RED RED RED ORANGE ORANGE RED RED UWHITE ORANGE ORANGE ORAN	NT + SLANT - SLANT + SLANT - BLUE BLUE BLUE BLUE E ORANGE ORANGE BLUE E CUMHTER ORANGE OF	LUE ORANGE ORANGE GREEN GREEN	CBRS TECH (3 GHz)
ADD FREQUENCY COLOR TO SECTOR BAND	ORANGE ORANGE RED RED WHITE (-) PORT ORANGE ORANGE	ORANGE ORANGE BLUE E	ULUE ORANGE ORANGE GREEN GREEN	
				YELLOW
				ALPHA SECTOR
MID-BAND RRH (AWS BANDS N66+N70)	RED RED RED RED	BLUE BLUE BLUE E	LUE GREEN GREEN GREEN	RED
ADD FREQUENCY COLOR TO SECTOR BAND (CBRS WILL USE YELLOW BANDS)	PURPLE PURPLE RED RED	PURPLE PURPLE BLUE E	LUE PURPLE PURPLE GREEN GREEN	
	(-) PORT PURPLE PURP (-) PORT (-) PURPLE (-) PURPLE (-) PURPLE		RPLE (PORT PURPLE PURPLE HTFENT (PORT (PORT) HTFENT (PORT)	COLOR IDENTIFIER
HYBRID/DISCREET CABLES	EXAMPLE 1 EXAMPLE 2	EXAMPLE 3 CANISTER		
INCLUDE SECTOR BANDS BEING SUPPORTED ALONG WITH FREQUENCY BANDS.		COAX#1 COAX #2 (ALPHA) (ALPHA)	ACTOR TO REFER TO FINAL	
EXAMPLE 1 — HYBRID, OR DISCREET, SUPPORTS ALL SECTORS, BOTH LOW-BANDS AND MID-BANDS.	RED RED BLUE		RUCTION RFDS FOR ALL RD DETAILS. RFDS IS IN NEXSYSONE.	
EXAMPLE 2 – HYBRID, OR DISCREET, SUPPORTS CBRS ONLY, ALL SECTORS.	GREEN GREEN	RED		
EXAMPLE 3 - MAIN COAX WITH GROUND MOUNTED RRHs.	ORANGE YELLOW PURPLE			
FIBER JUMPERS TO RRHs	LOW BAND RRH MID BAND RRH	LOW BAND RRH MID BAND RRH	LOW BAND RRH MID BAND RRH	
LOW-BAND HHR FIBER CABLES HAVE SECTOR STRIPE ONLY.	RED RED ORANCE PURPLE	BLUE BLUE ORANGE PURPLE	GREEN ORANGE PURPLE	
POWER CABLES TO RRHs	LOW BAND RRH MID BAND RRH	LOW BAND RRH MID BAND RRH	LOW BAND RRH MID BAND RRH	
LOW-BAND RRH POWER CABLES HAVE SECTOR STRIPE ONLY	RED RED ORANGE PURPLE	BLUE BLUE ORANGE PURPLE	GREEN GREEN ORANGE PURPLE	NOT_USED
RET MOTORS AT ANTENNAS	ANTENNA 1 ANTENNA 1	ANTENNA 1 ANTENNA 1	ANTENNA 1 ANTENNA 1	
RET CONTROL IS HANDLED BY THE MID-BAND RRH WHEN ONE SET OF RET PORTS EXIST ON	MID BAND LOW BAND	MID BAND LOW BAND	MID BAND LOW BAND IN IN	
ANTENNA. SEPARATE RET CABLES ARE USED WHEN ANTENNA PORTS PROVIDE INPUTS FOR BOTH LOW AND MID BANDS.	RED RED PURPLE ORANGE	BLUE BLUE PURPLE ORANGE	GREEN PURPLE ORANGE	
MICROWAVE RADIO LINKS	FORWARD AZIMUTH OF 0-120 DEGREE	6 FORWARD AZIMUTH OF 120-240 DEC	REES FORWARD AZIMUTH OF 240-359 DEGREES	
LINKS WILL HAVE A 1.5–2 INCH WHITE WRAP WITH THE AZIMUTH COLOR OVERLAPPING IN THE	PRIMARY SECONDARY	PRIMARY SECONDARY	PRIMARY SECONDARY	
MIDDLE. ADD ADDITIONAL SECTOR COLOR BANDS FOR EACH ADDITIONAL MW RADIO.	WHITE WHITE RED RED	WHITE WHITE BLUE BLUE	WHITE WHITE GREEN GREEN	
MICROWAVE CABLES WILL REQUIRE P-TOUCH LABELS INSIDE THE CABINET TO IDENTIFY THE LOCAL AND REMOTE SITE ID'S.	WHITE WHITE WHITE WHITE	WHITE BLUE WHITE	WHITE WRITE GREEN WHITE	
	CABLE COLOR CODES		NO SCALE	NOT_USED

	AWS (N66+N70+H-BLOCK) PURPLE NEGATIVE SLANT PORT ON ANT/RRH WHITE		COLOSSIN wireless. 5701 SOUTH SANTA FE DRIVE LITTLETON, CO 80120
TOR	GAMMA SECTOR		BOCA RATON, FL 33487 BHT GRP 17/7 S. BOULDER SUITE 300 TULSA, OK 74119 PH: (19) BS74630 www.btgrp.com
	NO SCALE	2	MTS ENGINEERING P.L.L.C. BER:2386985 Expires 3/31/23 IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT. DRAWN BY: CHECKED BY: APPROVED BY: DDK RMC RMC RFDS REV #: 1
	NO SCALE	3	CONSTRUCTION DOCUMENTS SUBMITTALS REV DATE DESCRIPTION A 1/12/22 ISSUED FOR REVIEW 0 3/5/22 ISSUED FOR CONSTRUCTION 1 4/8/22 ISSUED FOR CONSTRUCTION 2 1/26/23 ISSUED FOR CONSTRUCTION 2 1/26/23 ISSUED FOR CONSTRUCTION A&E PROJECT NUMBER 149459.001.01 DISH WIRELSS LLC. PROJECT INFORMATION BOBOS00055A 350B COSSADUCK HILL ROAD NORTH STONINGTON, CT 06359 SHEET TITLE RF CABLE COLOR SHEET NUMBER RF-1
	NO SCALE	4	

EXOTHERMIC CONNECTION		AB	ANCHOR BOLT	IN	INCH
MECHANICAL CONNECTION	J	ABV	ABOVE	INT	INTERIOR
	-	AC ADDL	ALTERNATING CURRENT ADDITIONAL	LB(S)	POUND(S)
BUSS BAR INSULATOR	A	AFF	ABOVE FINISHED FLOOR	LF LTE	LINEAR FEET LONG TERM EVOLUTION
CHEMICAL ELECTROLYTIC GROUNDING SYSTEM	0	AFG	ABOVE FINISHED GRADE	MAS	MASONRY
TEST CHEMICAL ELECTROLYTIC GROUNDING SYSTEM	0	AGL	ABOVE GROUND LEVEL	MAX	MAXIMUM
EXOTHERMIC WITH INSPECTION SLEEVE		AIC ALUM	AMPERAGE INTERRUPTION CAPACITY ALUMINUM	MB MECH	MACHINE BOLT MECHANICAL
GROUNDING BAR		ALT	ALTERNATE	MECH	MANUFACTURER
GROUND ROD	ı ⊢ ●	ANT	ANTENNA	MGB	MASTER GROUND BAR
TEST GROUND ROD WITH INSPECTION SLEEVE	ı │ —⊕⊤	APPROX		MIN	MINIMUM
SINGLE POLE SWITCH	4	ARCH ATS	ARCHITECTURAL AUTOMATIC TRANSFER SWITCH	MISC MTL	MISCELLANEOUS METAL
	\$	AWG	AMERICAN WIRE GAUGE	MTS	MANUAL TRANSFER SWITCH
DUPLEX RECEPTACLE	\bigcirc	BATT	BATTERY	MW	MICROWAVE
		BLDG BLK	BUILDING BLOCK	NEC	NATIONAL ELECTRIC CODE
DUPLEX GFCI RECEPTACLE	(FP)	BLKG	BLOCKING	NM NO.	NEWTON METERS NUMBER
FLUORESCENT LIGHTING FIXTURE (2) TWO LAMPS	48–T8 L F L	ВМ	BEAM	#	NUMBER
		BTC	BARE TINNED COPPER CONDUCTOR	NTS	NOT TO SCALE
SMOKE DETECTION (DC)	SD	BOF CAB	BOTTOM OF FOOTING CABINET	OC	ON-CENTER
EMERGENCY LIGHTING (DC)		CANT	CANTILEVERED	OSHA OPNG	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION OPENING
EMERGENCI LIGHTING (DC)	ZB	СНС	CHARGING	P/C	PRECAST CONCRETE
SECURITY LIGHT W/PHOTOCELL LITHONIA ALXW		CLG	CEILING	PCS	PERSONAL COMMUNICATION SERVICES
LED-1-25A400/51K-SR4-120-PE-DDBTXD		CLR COL	CLEAR COLUMN	PCU	PRIMARY CONTROL UNIT
CHAIN LINK FENCE	x x x x	СОММ	COMMON	PRC PP	PRIMARY RADIO CABINET POLARIZING PRESERVING
WOOD/WROUGHT IRON FENCE		CONC	CONCRETE	PP PSF	POLARIZING PRESERVING POUNDS PER SQUARE FOOT
WALL STRUCTURE	{//////////////////////////////////////	CONSTR		PSI	POUNDS PER SQUARE INCH
LEASE AREA		DBL DC	DOUBLE DIRECT CURRENT	PT	PRESSURE TREATED
PROPERTY LINE (PL)		DEPT	DEPARTMENT	PWR QTY	POWER CABINET QUANTITY
SETBACKS		DF	DOUGLAS FIR	RAD	RADIUS
ICE BRIDGE		DIA DIAG	DIAMETER DIAGONAL	RECT	RECTIFIER
CABLE TRAY		DIAG	DIMENSION	REF	REFERENCE
WATER LINE	W W W W W	DWG	DRAWING	REINF REQ'D	REINFORCEMENT REQUIRED
UNDERGROUND POWER		DWL	DOWEL	REQU	REMOTE ELECTRIC TILT
UNDERGROUND TELCO		EA EC	EACH ELECTRICAL CONDUCTOR	RF	RADIO FREQUENCY
OVERHEAD POWER		EL.	ELEVATION	RMC	RIGID METALLIC CONDUIT
		ELEC	ELECTRICAL	RRH RRU	REMOTE RADIO HEAD REMOTE RADIO UNIT
OVERHEAD TELCO	ОНТ ОНТ ОНТ ОНТ	EMT	ELECTRICAL METALLIC TUBING	RWY	RACEWAY
UNDERGROUND TELCO/POWER	UGT/P UGT/P UGT/P	ENG EQ	ENGINEER EQUAL	SCH	SCHEDULE
ABOVE GROUND POWER	—— AGP —— AGP —— AGP —— AGP ——	EXP	EXPANSION	SHT	SHEET
ABOVE GROUND TELCO	AGT AGT AGT AGT	EXT	EXTERIOR	SIAD SIM	SMART INTEGRATED ACCESS DEVICE SIMILAR
ABOVE GROUND TELCO/POWER	AGT/P AGT/P AGT/P	EW FAB	EACH WAY FABRICATION	SPEC	SPECIFICATION
WORKPOINT	W.P.	FF	FINISH FLOOR	SQ	SQUARE
SECTION REFERENCE	XX	FG	FINISH GRADE	SS	STAINLESS STEEL
SECTION REFERENCE	X-X	FIF	FACILITY INTERFACE FRAME	STD STL	STANDARD STEEL
		FIN	FINISH(ED)	TEMP	TEMPORARY
		FLR FDN	FLOOR FOUNDATION	ТНК	THICKNESS
DETAIL REFERENCE		FOC	FACE OF CONCRETE	TMA TN	TOWER MOUNTED AMPLIFIER TOE NAIL
	\sim	FOM	FACE OF MASONRY	TOA	TOP OF ANTENNA
		FOS	FACE OF STUD	TOC	TOP OF CURB
		FOW FS	FACE OF WALL FINISH SURFACE	TOF	TOP OF FOUNDATION
		FT	FOOT	TOP	TOP OF PLATE (PARAPET)
		FTG	FOOTING	TOS TOW	TOP OF STEEL TOP OF WALL
		GA GEN	GAUGE GENERATOR	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
		GEN	GENERATOR GROUND FAULT CIRCUIT INTERRUPTER	TYP	TYPICAL
		GLB	GLUE LAMINATED BEAM	UG	
		GLV	GALVANIZED	UL UNO	UNDERWRITERS LABORATORY UNLESS NOTED OTHERWISE
		GPS GND	GLOBAL POSITIONING SYSTEM GROUND	UMTS	UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM
		GND GSM	GROUND GLOBAL SYSTEM FOR MOBILE	UPS	UNITERRUPTIBLE POWER SYSTEM (DC POWER PLAN
		HDG	HOT DIPPED GALVANIZED	VIF	VERIFIED IN FIELD
		HDR	HEADER	W W (WIDE WITH
		HGR		W/ WD	WITH WOOD
		HVAC HT	HEAT/VENTILATION/AIR CONDITIONING HEIGHT	WP	WEATHERPROOF
		IGR	INTERIOR GROUND RING	WT	WEIGHT



		SIGN TYPES
TYPE	COLOR	COLOR CODE PURPOSE
NFORMATION	GREEN	"INFORMATIONAL SIGN" TO NOTIFY OTHERS OF SITE OWNERSHIP & CONTACT NUMBER AND POTENTIAL RF EXPOSURE.
NOTICE	BLUE	"NOTICE BEYOND THIS POINT" RF FIELDS BEYOND THIS POINT MAY EXCEED THE FCC GENERAL PUBLIC EXPOSURE LIMIT. OBEY ALL POSTED SIGNS AND SITE GUIDELINES FOR WORKING IN RF ENVIRONMENTS. IN ACCORDANCE WITH FEDERAL COMMUNICATIONS COMMISSION RULES ON RADIO FREQUENCY EMISSIONS 47 CFR-1.1307(b)
CAUTION	YELLOW	"CAUTION BEYOND THIS POINT" RF FIELDS BEYOND THIS POINT MAY EXCEED THE FCC GENERAL PUBLIC EXPOSURE LIMIT. OBEY ALL POSTED SIGNS AND SITE GUIDELINES FOR WORKING IN RF ENVIRONMENTS. IN ACCORDANCE WITH FEDERAL COMMUNICATIONS COMMISSION RULES ON RADIO FREQUENCY EMISSIONS 47 CFR-1.1307(b)
WARNING	ORANGE/RED	"WARNING BEYOND THIS POINT" RF FIELDS AT THIS SITE EXCEED FCC RULES FOR HUMAN EXPOSURE. FAILURE TO OBEY ALL POSTED SIGNS AND SITE GUIDELINES FOR WORKING IN RF ENVIRONMENTS COULD RESULT IN SERIOUS INJURY. IN ACCORDANCE WITH FEDERAL COMMUNICATIONS COMMISSION RULES ON RADIO FREQUENCY EMISSIONS 47 CFR-1.1307(b)

SIGN PLACEMENT:

- RF SIGNAGE PLACEMENT SHALL FOLLOW THE Wireless L.L.C.
- INFORMATION SIGN (GREEN) SHALL BE LOCA
 A) IF THE INFORMATION SIGN IS A STIC
 B) IF THE INFORMATION SIGH IS A MET
- IF EME REPORT IS NOT AVAILABLE AT THE T FURTHER INSTRUCTION ON HOW TO PROCEED

NOTES:

- 1. FOR DISH Wireless L.L.C. LOGO, SEE DISH
- 2. SITE ID SHALL BE APPLIED TO SIGNS USIT
- 3. TEXT FOR SIGNAGE SHALL INDICATE CORRE
- 4. CABINET/SHELTER MOUNTING APPLICATION
- 5. ALL SIGNS WILL BE SECURED WITH EITHER
- 6. ALL SIGNS TO BE 8.5"x11" AND MADE WI

SIGN TYPES E COLOR COLOR CODE PURPOSE TION GREEN "INFORMATIONAL SIGN" TO NOTIFY OTHERS OF SITE OWNERSHIP & CO E BLUE "INFORMATIONAL SIGN" TO NOTIFY OTHERS OF SITE OWNERSHIP & CO E BLUE "NOTICE BEYOND THIS POINT" RF FIELDS BEYOND THIS POINT MAY POSTED SIGNS AND SITE GUIDELINES FOR WORKING IN RF ENVIRONM COMMISSION RULES ON RADIO FREQUENCY EMISSIONS 47 CFR-1.130 "CAUTION BEYOND THIS POINT" RF FIELDS BEYOND THIS POINT MAY POSTED SIGNS AND SITE GUIDELINES FOR WORKING IN RF ENVIRONM COMMISSION RULES ON RADIO FREQUENCY EMISSIONS 47 CFR-1.130 "WARNING BEYOND THIS POINT" RF FIELDS AT THIS SITE EXCEED FO SIGNS AND SITE GUIDELINES FOR WORKING IN RF ENVIRONMENTS CO COMMUNICATIONS COMMISSION RULES ON RADIO FREQUENCY EMISSIO AG ORANGE/RED "WARNING BEYOND THE RECOMMENDATIONS OF AN EXISTING EME REPORT, CF ISISN SAND SITE GUIDELINES FOR WORKING IN RF ENVIRONMENTS CO COMMUNICATIONS COMMISSION RULES ON RADIO FREQUENCY EMISSIO CEEMENT: SIGNAGE PLACEMENT SHALL FOLLOW THE RECOMMENDATIONS OF AN EXISTING EME REPORT, CF ISISS L.L.C. ORANGE (GREEN) SHALL BE LOCATED ON EXISTING DISH WIREIESS L.L.C. SIGNS A STICKER, IT SHALL BE PLACED ON EXISTING DISH WIREIESS B) IF THE INFORMATION SIGN IS A STICKER, IT SHALL BE PLACED ON EXISTING DISH WIREIESS B) IF THE INFORMATION SIGN IS A METAL SIGN IT SHALL BE PLACED ON EXISTING DISH WIRE B) IF THE INFORMATION SIGN IS A METAL SIGN IT SHALL BE PLACED ON EXISTING DISH WIRE B) IF THE INFORMATION SIGN IS A METAL SIGN IS CONSTRUCTION DOCUMENTS; PLE THER INSTRUCTION ON HOW TO PROCEED.	EXCEED THE FCC GENERAL PUBLIC EXPOSURE LIMIT. OBEY ALL ENTS. IN ACCORDANCE WITH FEDERAL COMMUNICATIONS 77(b) EXCEED THE FCC GENERAL PUBLIC EXPOSURE LIMIT. OBEY ALL IENTS. IN ACCORDANCE WITH FEDERAL COMMUNICATIONS 07(b) C RULES FOR HUMAN EXPOSURE. FAILURE TO OBEY ALL POSTED VULD RESULT IN SERIOUS INJURY. IN ACCORDANCE WITH FEDERAL NS 47 CFR-1.1307(b) REATED BY A THIRD PARTY PREVIOUSLY AUTHORIZED BY DISH IS L.L.C EQUIPMENT CABINET. less L.L.C H-FRAME WITH A SECURE ATTACH METHOD. EASE CONTACT DISH Wireless L.L.C. CONSTRUCTION MANAGER FOR DISH Wireless L.L.C.) STANT METHOD (DISH Wireless L.L.C. APPROVAL REQUIRED) L.C. CONSTRUCTION MANAGER RECOMMENDATIONS.	INFORMATION This is an access point to an area with transmitting antennas. Obey all signs and barriers beyond this point. Call the DISH Wireless L.L.C. NOC at 1-866-624-6874 Site ID:	CONSTRUCTION CONST
	H SCREWS		No. 23924 No. 23924 CENSIONAL CONSTRUCTION DOK RMC RMC RMC RMC NC
Transmitting Antenna(s) Transmitting Antenna(s) Radio frequency fields beyond this point MAY EXCEED the FCC Occupational exposure limit. Obey all posted signs and site guidelines for working in radio frequency environments. Obey all POSTED the FCC Occupational exposure limit. Call the DISH Wireless L.L.C. NOC at 1-866-624-6874 prior to working beyond this point. Site ID: Image: Color of the formation of the point of the point. Site ID:	Transmitting Antenna(s) Radio frequency fields beyond this point MA <i>EXCEED</i> the FCC Occupational exposure lime Obey all posted signs and site guidelines for working in radio frequency environments. Call the DISH Wireless L.L.C. NOC at 1-866-62 prior to working beyond this point. Site ID:	Ait. Structure Structure Structure Structure Obey all posted signs and site guidelines for working in radio frequency environments. Bound and and and and and and and and and a	SUBMITTALS V DATE DESCRIPTION 1 1/12/22 ISSUED FOR REVIEW 3 3/5/22 ISSUED FOR CONSTRUCTION 4 4/8/22 ISSUED FOR CONSTRUCTION 2 1/26/23 ISSUED FOR CONSTRUCTION A&E PROJECT NUMBER 149459.001.01 DISH Wireless L.L.C. PROJECT INFORMATION BOBOS00055A 50B COSSADUCK HILL ROAD NORTH STONINGTON, CT 06359 SHEET TITLE GENERAL NOTES
	<u>RF_SIGNAGE</u>		SHEET NUMBER

SITE ACTIVITY REQUIREMENTS:

1. NOTICE TO PROCEED - NO WORK SHALL COMMENCE PRIOR TO CONTRACTOR RECEIVING A WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE DISH Wireless L.L.C. AND TOWER OWNER NOC & THE DISH Wireless L.L.C. AND TOWER OWNER CONSTRUCTION MANAGER.

2. "LOOK UP" - DISH Wireless L.L.C. 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, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR DISH Wireless L.L.C. AND DISH Wireless L.L.C. AND TOWER OWNER POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.

3. PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED. THIS INCLUDES, BUT IS NOT LIMITED TO, BUILDING, ELECTRICAL, MECHANICAL, FIRE, FLOOD ZONE, ENVIRONMENTAL, AND ZONING. AFTER ONSITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISDICTIONAL REQUIREMENTS.

4. ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN, AND SHALL MEET ANSI/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND DISH WIREISS L.L.C. AND TOWER OWNER STANDARDS, INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION, TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA-322 (LATEST EDITION).

5. ALL SITE WORK TO COMPLY WITH DISH Wireless L.L.C. AND TOWER OWNER INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON DISH Wireless L.L.C. AND TOWER OWNER TOWER SITE AND LATEST VERSION OF ANSI/TIA-1019-A-2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."

6. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY DISH Wireless L.L.C. AND TOWER OWNER PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.

7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.

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

9. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES INCLUDING PRIVATE LOCATES SERVICES PRIOR TO THE START OF CONSTRUCTION.

10. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION E) CONSTRUCTION SAFETY PROCEDURES.

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

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

13. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF DISH WIRELSS LL.C. AND TOWER OWNER, AND/OR LOCAL UTILITIES.

14. THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED BY LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT, ROOMS, AND SHELTERS.

15. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS.

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

17. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS.

18. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.

19. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.

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

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

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

GENERAL NOTES:

1.FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY: CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION

JNIRACIUR:GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION

CARRIER:DISH Wireless L.L.C.

TOWER OWNER: TOWER OWNER

2. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES. IT IS ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.

3. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY.

4. NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARIFICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD.

5. SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR CUTTING OF ANY NEW OR EXISTING CONSTRUCTION ELEMENTS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.

6. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CARRIER POC AND TOWER OWNER.

7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.

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

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

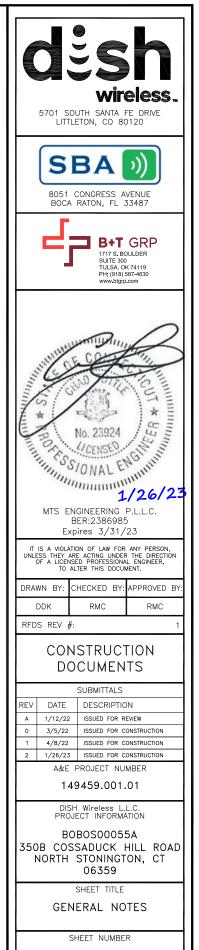
10. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND TOWER OWNER PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.

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 DRAWINGS.

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

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

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



GN-3

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL

ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, 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 psf.

ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE THAN 90 MINUTES 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.

CONCRETE EXPOSED TO FREEZE-THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER-TO-CEMENT RATIO (W/C) OF 0.45.

ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. ALL SPLICES SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (Fy) OF STANDARD DEFORMED BARS ARE AS FOLLOWS:

#4 BARS AND SMALLER 40 ksi

#5 BARS AND LARGER 60 ksi

THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL 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" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

ELECTRICAL INSTALLATION NOTES:

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 FLIMINATED.

- WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC. 3
- 4 ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.

41 ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL. AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.

ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 22,000 AIC MINIMUM. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADOPTED CODE PRE THE GOVERNING JURISDICTION.

5 EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.

ALL FLECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS SHOWING THEIR RATED VOLTAGE. PHASE 6 CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (i.e. PANEL BOARD AND CIRCUIT ID'S).

7 PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.

TIE WRAPS ARE NOT ALLOWED. 8

ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.

SUPPLEMENTAL FOURPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH 10 TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.

POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI-CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED.

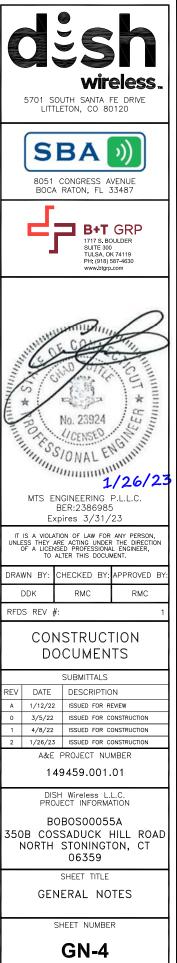
POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 OR LARGER), WITH 12 TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.

ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND 1.3 BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75" C (90" C IF AVAILABLE).

RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND 14 NEC.

15 ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.

ELECTRICAL METALLIC TUBING (EMT) OR METAL-CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS. 16. 17 SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT. 18. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE. CABINETS. BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND THE 20 NEC 21 WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER DESIGNED TO SWING OPEN DOWNWARDS (WIREMOLD SPECMATE WIREWAY). 22 SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL). 23. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES (i.e. POWDER-ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET 24 STEEL, SHALL MEET OR EXCEED UL 50 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3 (OR BETTER) FOR EXTERIOR LOCATIONS METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING; SHALL MEET OR 25 EXCEED UL 514A AND NEMA OS 1 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED 26 NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS. THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR DISH Wireless L.L.C. AND 27 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 SAFEGUARD LIFE AND PROPERTY. 29. 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. 30. DDK REV



GROUNDING NOTES:

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, 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.

2. THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED 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 FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.

5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.

6. EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 BARE SOLID TINNED COPPER FOR OUTDOOR BTS.

7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.

8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.

9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.

10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.

11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.

12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.

13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.

14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.

15. APPROVED ANTIOXIDANT COATINGS (i.e. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.

16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.

17. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.

18. BOND ALL METALLIC OBJECTS WITHIN 6 ft OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR.

19. GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (i.e., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.

20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER IN 3/4" NON-METALLIC, FLEXIBLE 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 SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).

21. BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY). DO NOT ATTACH GROUNDING TO FIRE SPRINKLER SYSTEM PIPES.

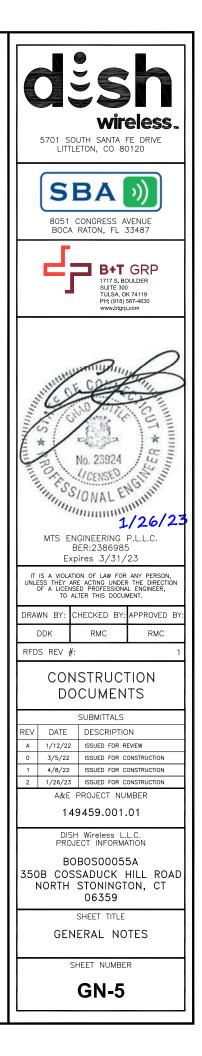


Exhibit D

Structural Analysis Report

Tower Engineering Solutions Phone (972) 483-0607, Fax (972) 975-9615 1320 Greenway Drive, Suite 600, Irving, Texas 75038

Structural Analysis Report

Existing 189 ft SABRE Monopole Customer Name: SBA Communications Corp Customer Site Number: CT11796-S Customer Site Name: North Stonington 3 Carrier Name: Dish Wireless (App#: 178876, V1) Carrier Site ID / Name: BOBOS00055A / 0 Site Location: 350b Cossaduck Hill Road North Stonington, Connecticut New London County Latitude: 41.499233 Longitude: -71.889522



<u>Analysis Result:</u> Max Structural Usage: 85.8% [Pass] Max Foundation Usage: 79.0% [Pass] Additional Usage Caused by New Mount/Mount Modification: N/A

Report Prepared By: Younus Alkarawi

Tower Engineering Solutions Phone (972) 483-0607, Fax (972) 975-9615 1320 Greenway Drive, Suite 600, Irving, Texas 75038

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Report Prepared By: Younus Alkarawi

Introduction

The purpose of this report is to summarize the analysis results on the 189 ft SABRE Monopole to support the proposed antennas and transmission lines in addition to those currently installed. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

Sources of Information

Tower Drawings	Sabre Industries (Job No. 57617), dated March 26, 2012
Foundation Drawing	Sabre Industries (Job No. 57617), dated March 26, 2012
Geotechnical Report	Tower Engineering Professionals (Project No. 121203.10), dated March 9, 2012
Modification Drawings	Previous SA: FDH Engineering, Inc. (Job # 1466LL1400), dated 06/04/2014
Mount Analysis	N/A

Analysis Criteria

The comprehensive analysis was performed in accordance with the requirements and stipulations of the TIA-222-H. In accordance with this standard, the structure was analyzed using **TESPoles**, a proprietary analysis software. The program considers the structure as an elastic 3-D model with second-order effects and temperature effects incorporated in the analysis. The analysis was performed using multiple wind directions.

Wind Speed Used in the Analysis: Wind Speed with Ice:	130.0 mph (3-Sec. Gust) (Ultimate wind speed) 50 mph (3-Sec. Gust) with 1" radial ice concurrent
Service Load Wind Speed:	60 mph + 0" Radial ice
Standard/Codes:	TIA-222-H / 2021 IBC / 2022 Connecticut State Building Code
Exposure Category:	C
Risk Category:	II
Topographic Category:	1
Crest Height:	0 ft
Seismic Parameters:	$S_S = 0.186, S_1 = 0.052$

This structural analysis is based upon the tower being classified as a Risk Category II; however, if a different classification is required subsequent to the date hereof, the tower classification will be changed to meet such requirement and a new structural analysis will be run.

Existing Antennas, Mounts and Transmission Lines

The table below summarizes the antennas, mounts and transmission lines that were considered in the analysis as existing on the tower.

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmissio n Lines	Owner	
1		12	Cci HPA-65R-BUU-H8 - Panel				
2		9	Ericsson RRUS-11				
3		3	Ericsson RRUS-E2		(8) 3/8" DC		
4	186.0	3	Ericcson RRUS-32	Platform w/ Hand Rail	(3) 3/8" RET	AT&T	
5		6	Ericsson A2		(2) 5/8" fiber		
6		4	Raycap DC6-48-60-18-8F				
7		6	Ericcson RRUS-12				
8		6	Commscope NNH-65B-R2B- Panel				
9		3	Antel BXA-70063-6CF-EDIN-6-Panel				
10	178.0	3	Samsung MT6407-77A- Panel	Low Profile Platform	(1) 1 5/8'' hybrid	Vorizon	
11	178.0	3	Samsung RF4439d-25A-RRU	Valmont RMQP-463		Verizon	
12		3	Samsung RF4440d-13A-RRU				
13		1	RFS RCMDC-6627-PF-28-OVP				
18	145.0	1	dbSpectra DS2C00-F-36-B	 (1) Site Pro SV197-48 (Side Arm) @ 138' (1) Site Pro UQB4 (Universal Ring Mount) @ 138' 	(2) 7/8"	Connecticut Light &	

Proposed Carrier's Final Configuration of Antennas, Mounts and Transmission Lines

Information pertaining to the proposed carrier's final configuration of antennas and transmission lines was provided by SBA Communications Corp. The proposed antennas and lines are listed below.

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
14		3	Commscope FFVV-65B-R2 - Panel	Diatria manual Liand Dail		
15	168.0	3	Fujitsu TA08025-B605 - RRU	Platform w/ Hand Rail	(1) 1.75"	Dish Wireless
16	100.0	3	Fujitsu TA08025-B604 - RRU	[(1) Commscope MC-PK8-DSH]	Hybrid	
17		1	Raycap RDIDC-9181-PF-48- OVP	MC-PKO-DSHJ		

See the attached coax layout for the line placement considered in the analysis.

Analysis Results

The results of the structural analysis, performed for the wind and ice loading and antenna equipment as defined above, are summarized as the following:

	Pole shafts	Anchor Bolts	Base Plate
Max. Usage:	85.8%	75.8%	82.0%
Pass/Fail	Pass	Pass	Pass

Foundations

	Moment (Kip-Ft)	Shear (Kips)	Axial (Kips)
Analysis Reactions	6318.9	46.3	57.8

The foundation has been investigated using the supplied documents and soils report and was found adequate. Therefore, no modification to the foundation will be required.

Service Load Condition (Rigidity):

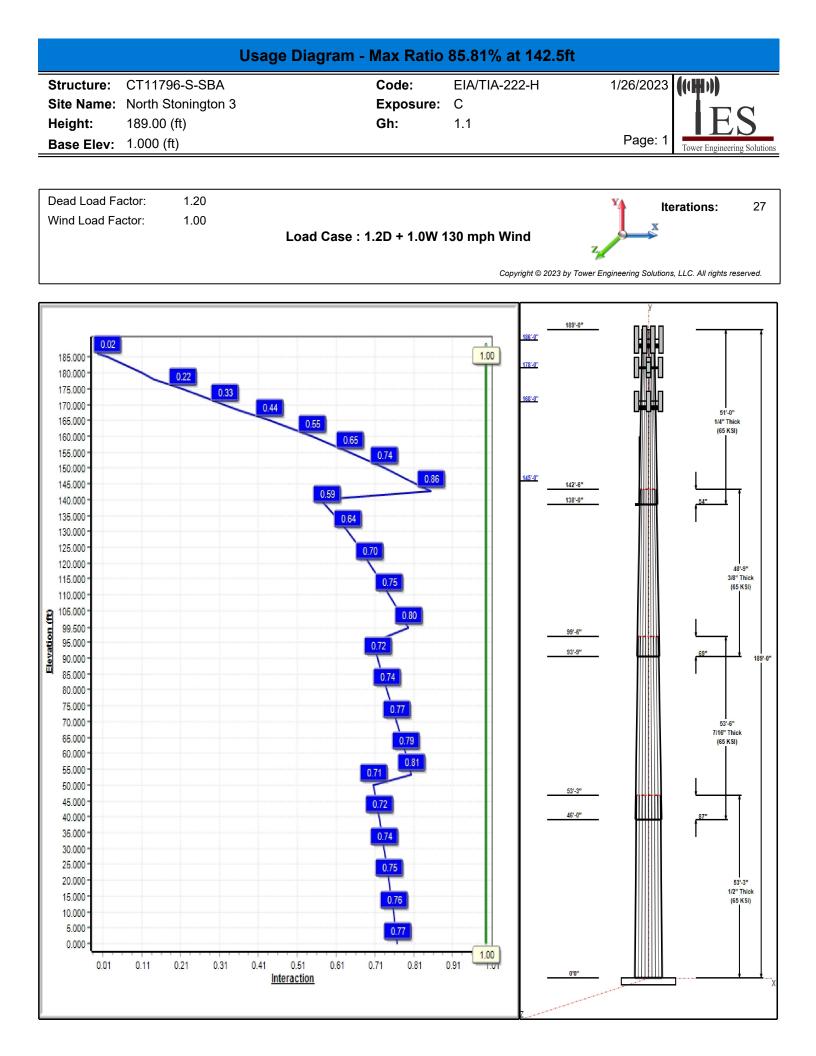
Operational characteristics of the tower are found to be within the limits prescribed by TIA-222 for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 1.7520 degrees under the operational wind speed as specified in the Analysis Criteria.

Conclusions

Based on the analysis results, the existing structure and its foundation were found to be adequate to safely support the existing and proposed equipment and meet the minimum requirements per the TIA-222 Standard under the design basic wind speed as specified in the Analysis Criteria.

Standard Conditions

- 1. This analysis was performed based on the information supplied to **(TES) Tower Engineering Solutions**, **LLC.** Verification of the information provided was not included in the Scope of Work for **TES**. The accuracy of the analysis is dependent on the accuracy of the information provided.
- 2. The structural analysis was performance based upon the evidence available at the time of this report. All information provided by the client is considered to be accurate.
- 3. The analyses will be performed based on the codes as specified by the client or based on the best knowledge of the engineering staff of **TES**. In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/TIA-222. If wind speed and/or ice loads are different from the minimum values recommended by the ANSI/TIA-222 standard or other codes, **TES** should be notified in writing and the applicable minimum values provided by the client.
- 4. The configuration of the existing mounts, antennas, coax and other appurtenances were supplied by the customer for the current structural analysis. **TES** has not visited the tower site to verify the adequacy of the information provided. If there is any discrepancy found in the report regarding the existing conditions, **TES** should be notified immediately to evaluate the effect of the discrepancy on the analysis results.
- 5. The client will assume responsibility for rework associated with the differences in initially provided information, including tower and foundation information, existing and/or proposed equipment and transmission lines.
- 6. If a feasibility analysis was performed, final acceptance of changed conditions shall be based upon a rigorous structural analysis.



					ę	Structure	: CT1179	96-S-	SBA		
Type: Site N		apered	oningtor	1.3		Bas	se Shape: Taper:		Sided 770	1/26/2023	(((#)))
Heigh		89.00 (•	10			ruper.	0.2	1110		IFS
Base		1.00 (ft)	,							Page: 2	
		(Tower Engineering Solutions
			Shaft	Prope	rties					Y	
	Length	Тор	Bottom	Thick	Joint	_	Grade	186'-0"	189'-0"	0000	<u> </u>
Seq	(ft)	(in)	(in)	(in)	Туре	Taper	(ksi)				
1 2	53.25 53.50	49.08 39.88	60.67 51.53	0.500 0.438	Slip	0.21770 0.21770	65 65	178'-0"			
3	48.75	31.27	41.89	0.375	Slip	0.21770	65				
4	51.00	21.65	32.75	0.250	Slip	0.21770	65	168'-0''			51'-0"
		Dis	screte A	Appurt	enance	S					51'-0" 1/4" Thick (65 K SI)
Attach	Ford		Decer	ntion		Corrier					
Elev (ft) 186.00				ption A-65R-BL	IU-H8	Carrier AT&T					
186.00				on RRUS-		AT&T		145'-0"	142'-6"		
186.00				on RRUS-I		AT&T			138'-0''		54"
186.00 186.00			3 Ericcso 6 Ericsso	n RRUS-3	32	AT&T AT&T					t
186.00				DC6-48-	60-18-8F	AT&T					
186.00				m w/ Hand		AT&T					
186.00				n RRUS-	12	AT&T					48'-9"
178.00 178.00			6 NNHH- 3 MT640			Verizon Verizon					3/8" Thick (65 KSI)
178.00			3 RF4439			Verizon					
178.00			3 RF4440			Verizon					
178.00				C-6627-PI		Verizon			99'-6"	** ** *** *	<u>↓</u>
178.00 178.00				XA-70063 ofile Platfo		Verizon Verizon			93'-9"		69" 1 89'-0"
168.00			3 TA0802			Dish Wireles	s				
168.00			3 TA0802			Dish Wireles					
168.00 168.00			1 RDIDC 1 MC-PK	-9181-OF 8-กรม	-48	Dish Wireles Dish Wireles					
168.00			3 Comms			Dish Wireles					53'-6" 7/16" Thick
145.00	151.		1 DS2C0	0-F-36-B		Connecticut	-				(65 KSI)
138.00 138.00			1 Side Ar 1 Ring M	m (SV197	7-48)	Connecticut Connecticut	-				
136.00	130.		<u> </u>								
Elev	Elev	LI	near A	ppurte	nances				53'-3"		
From (ft		Place	ment De	escription		Carrier			46'-0"		f ^{87"}
0.00	186.0			" DC		AT&T					
0.00 0.00	186.0 186.0			" RET " fiber		AT&T AT&T					
0.00	178.0			/8" Hybrid		Verizon					53'-3"
0.00	168.0			5" Hybrid		Dish Wireles					1/2" Thick (65 K SI)
0.00	145.0	0 Ins		" Coax		Connecticut	Light &				(05 (15))
			Anc Grade	hor Bo	lts						
Qty S 24	Specificat 2.25" 18		(ksi) 75.0	Arrang Clus					0'0"		
			Ba	se Plat	е						X
Thickne (in)	•	ecificatio (in)		Grade (ksi)	Geome	-		Ζ			
3.0000)	69.8		50.0	Clippe	ed		1			
			Re	action	S						

	Structure: CT11796-S-SBA											
Туре:	Tapered			Base Shape:	18 Sided	1/26/2023	(((#)))					
Site Name:	North Stonington 3	5		Taper:	0.21770							
Height:	189.00 (ft)											
Base Elev:	1.00 (ft)					Page: 3	Tower Engineering Solution					
Load Case		Moment	Shear	Axial								
1.2D + 1.0W 130	mph Wind	(FT-Kips) 6318.9	(Kips) 46.3	(Kips) 57.8								
0.9D + 1.0W 130		6240.2	46.3	43.4								
1.2D + 1.0Di + 1.0	•	1418.2	10.6	77.7								
1.2D + 1.0Ev + 1.	0Eh	138.5	0.8	59.8								

136.7

1198.4

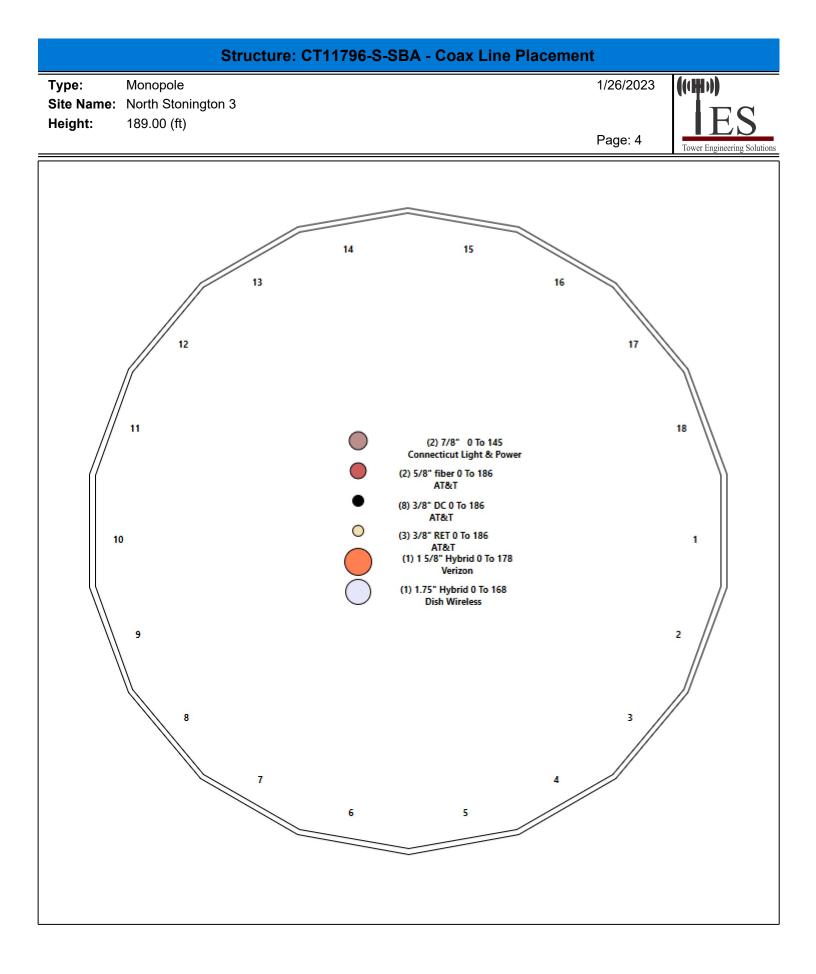
0.8 45.4

48.3

8.8

0.9D + 1.0Ev + 1.0Eh

1.0D + 1.0W 60 mph Wind



Final Analysis Summary											
Structure:	CT11796-S-SBA	1		Code:	TIA-222-H	1/26/2023					
Site Name:	North Stonington	n 3		Exposure:	С		((#)))				
Height:	189.00 (ft)			Crest Height:	0.00						
Base Elev:	1.000 (ft)			Site Class:	D - Stiff Soil						
Gh:	1.1	Topography:	1	Struct Class:	II	Page: 48	Tower Engineering Solution				

Reactions

Load Case	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)
1.2D + 1.0W 130 mph Wind	46.3	0.00	57.84	0.00	0.00	6318.89
0.9D + 1.0W 130 mph Wind	46.3	0.00	43.36	0.00	0.00	6240.16
1.2D + 1.0Di + 1.0Wi 50 mph Wind	10.6	0.00	77.69	0.00	0.00	1418.24
1.2D + 1.0Ev + 1.0Eh	0.8	0.00	59.85	0.00	0.00	138.48
0.9D + 1.0Ev + 1.0Eh	0.8	0.00	45.36	0.00	0.00	136.67
1.0D + 1.0W 60 mph Wind	8.8	0.00	48.27	0.00	0.00	1198.39

Max Stresses

Load Case	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	: phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Elev (ft)	Stress Ratio
1.2D + 1.0W 130 mph Wind	-11.54	-27.29	0.00	-949.13	0.00	-949.13	1726.66	438.97	1148.10	1119.85	142.50	0.858
0.9D + 1.0W 130 mph Wind	-7.87	-26.77	0.00	-929.74	0.00	-929.74	1726.66	438.97	1148.10	1119.85	142.50	0.839
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-25.36	-6.01	0.00	-204.00	0.00	-204.00	1726.66	438.97	1148.10	1119.85	142.50	0.197
1.2D + 1.0Ev + 1.0Eh	-15.57	-0.72	0.00	-27.07	0.00	-27.07	1726.66	438.97	1148.10	1119.85	142.50	0.033
0.9D + 1.0Ev + 1.0Eh	-11.80	-0.70	0.00	-26.62	0.00	-26.62	1726.66	438.97	1148.10	1119.85	142.50	0.031
1.0D + 1.0W 60 mph Wind	-12.43	-5.18	0.00	-180.39	0.00	-180.39	1726.66	438.97	1148.10	1119.85	142.50	0.168

	Base Plate Summary										
Structure:	CT11796-S-SB		Code:	TIA-222-H	1/26/2023						
Site Name:	North Stonington 3		Exposure:	С	((chi))						
Height:	189.00 (ft)		Crest Height:	0.00							
Base Elev:	1.000 (ft)		Site Class:	D - Stiff Soil							
Gh:	1.1 Topography :	1	Struct Class:	П	Page: 49 Tower Engineering Solutions						

Reaction	าร	Base Pla	ate	Anchor I	Bolts
Original De	sign	Yield (ksi):	50.00	Bolt Circle:	67.50
Moment (kip-ft):	7779.17	Width (in):	69.75	Number Bolts:	24.00
Axial (kip):	78.74	Style:	Clipped	Bolt Type:	2.25" 18J
Shear (kip):	60.41	Polygon Sides:	4.00	Bolt Diameter (in):	2.25
Analysis (1.2D	+ 1 0 W	Clip Length (in):	15.00	Yield (ksi):	75.00
Moment (kip-ft):	6318.89	Effective Len (in):	7.80	Ultimate (ksi):	100.00
Axial (kip):	57.84	Moment (kip-in):	647.58	Arrangement:	Clustered
Shear (kip):	46.34	Allow Stress (ksi):	67.50	Cluster Dist (in):	6.00
	10.01	Applied Stress (ksi):	55.35	Start Angle (deg):	45.00
		Stress Ratio:	0.82	Compres	sion
				Force (kip):	189.64
				Allowable (kip):	268.39
				Ratio:	0.71
				Tensio	n
				Force (kip):	184.82
				Allowable (kip):	243.75
				Ratio:	0.76

(((円)))		Monop	ole M	at Foundation	Design	Date 1/26/2	
		Customer Name:	Dish Wirel	ess	TIA Standard:	TIA-22	
		Site Name:			Structure Height		
		Site Number:	CT11796-	S-SBA	Engineer Name:	H. Ye	ou
Tower Engineering Solution	s	Engr. Number:	138138		Engineer Login II		
Foundation Info Obtained from:	F	- Drawings/Calculations				·	
Structure Type:	L	Monopole			V		
Analysis or Design?		Analysis					0.00
Base Reactions (Factored):		, maryono		0.50		<u> </u>	
							-
Axial Load (Kips):	57.8	Shear Force (Kips):	46.3			•	5
Uplift Force (Kips):	0.0	Moment (Kips-ft):	6318.9	99.0			9
Allowable overstress %: 5.0% Foundation Geometries:				6.0	.		9
		Mods required -Yes/No ?:	No		- /	57 #	9
Diameter of Pier (ft.):	8.0	Depth of Base BG (ft.):	6.0			/ ─_ ⊼	<u> </u>
Pier Height A. G. (ft.):	0.50	Thickness of Pad (ft):	2.00				2.00
Length of Pad (ft.):	29	Width of Pad (ft.):	2.00		• • • •		<u>/</u>
	25	width of Fad (ft.).	25	<	29.0	\rightarrow	
Final Length of pad (ft)	29.0	Final width of pad (ft):	29.0				0.0
Material Properties and Reabr Info					8.0		
	<u>.</u> 4000	Steel Flestic Medulus	29000	ksi	8.0		
Concrete Strength (psi):		Steel Elastic Modulus:		KSI			20.0
Vertical bar yield (ksi)	60	Tie steel yield (ksi):	60	20.0			29.0
Vertical Rebar Size #:	10	Tie / Stirrup Size #:	5	29.0	6		W
Qty. of Vertical Rebars:	40	Tie Spacing (in):	12.0				
Pad Rebar Yield (Ksi):	60	Pad Steel Rebar Size (#):	9	40 #	10		
Concrete Cover (in.):	3	Unit Weight of Concrete:	150.0	pcf			
Rebar at the bottom of the concrete	pad:						0.0
Qty. of Rebar in Pad (L):	57	Qty. of Rebar in Pad (W):	57	0.0		\leftarrow	0.0
Rebar at the top of the concrete pac	4:			< · · ·	29.0 L	` >	
Qty. of Rebar in Pad (L):	57	Qty. of Rebar in Pad (W):	57				
Apply 1.35 factor for e/w Per G: Soil Design Parameters:							
Soil Unit Weight (pcf):	116.0	Soil Buoyant Weight:	50.0	Pcf			
Water Table B.G.S. (ft):	99.0	Unit Weight of Water:	62.4	pcf Angle from Top of I	Pad:	30	
Ultimate Bearing Pressure (psf):	34700	Ultimate Skin Friction:	0	Psf Angle from Bottm o		25	
Consider Friction for O.T.M. (Y/N):	No	Consider Friction for beari	ng (Y/N):	No Angle from Bottm o	of Pad:	25	
Consider soil hor. resist. for OTM.:	Yes	Reduction factor on the m	aximum soil	bearing pressure: 1.0	00		
Foundation Analysis and Design:	Uplift Str	rength Reduction Factor:	0.75	Compression Strength Red	uction Factor: 0).75	
Total Dry Soil Volume (cu. Ft.):		<u>.</u>	3162.94	Total Dry Soil Weight (Kips		6.90	
Total Buoyant Soil Volume (cu. Ft.).	t.):		0.00	Total Buoyant Soil Weight).00	
Total Effective Soil Weight (Kips			366.90	Weight from the Concrete	/).00	
Total Dry Concrete Volume (cu.			1908.19	Total Dry Concrete Weight		36.23	
Total Buoyant Concrete Volume	(cu. Ft.):		0.00	Total Buoyant Concrete W	eight (Kips): C	0.00	
Total Effective Concrete Weight	(Kips):		286.23	Total Vertical Load on Base	e (Kips): 71	0.93	
Check Soil Capacities:						Load/ Capacity Ratio	
Calculated Maxium Net Soil Pressure	e under tł	ne base (psf):	3030	< Allowable Factored	Soil Bearing (psf): 20	5025 0.12	OK!
Allowable Foundation Overturning F	Resistance	e (kips-ft.):	9361.4	> Design Factored M	omont (kips-ft): 6	495 0.69	OK!
Factor of Safety Against Overturning	g (O. R. M	oment/Design Moment):	1.44	OK!			
		TEC Fara Normalian	120120		Data: 4/2/	2/2022	
		TES Engr. Number:	138138	Page 2/2	Date: 1/20	5/2023	

Check the capacities of Reinforceing Concrete:						
Strength reduction factor (Flexure and axial tension):	0.90	Streng	th reduction factor (Shear):	0.75		
Strength reduction factor (Axial compresion):	0.65	Wind	Load Factor on Concrete Design:	1.00		
					Load/ Capacity	
(1) Concrete Pier:					Ratio	
Vertical Steel Rebar Area (sq. in./each):	1.27		Tie / Stirrup Area (sq. in./each):	0.31		
Calculated Moment Capacity (Mn,Kips-Ft):	9673.7	>	Design Factored Moment (Mu, Kips-F	6527.3	0.67	OK!
Calculated Shear Capacity (Kips):	924.8	>	Design Factored Shear (Kips):	46.3	0.05	OK!
Calculated Tension Capacity (Tn, Kips):	2743.2	>	Design Factored Tension (Tu Kips):	0.0	0.00	OK!
Calculated Compression Capacity (Pn, Kips):	12707.4	>	Design Factored Axial Load (Pu Kips):	57.8	0.00	OK!
Moment & Axial Strength Combination:	0.67	OK!	Check Tie Spacing (Design/Required):		1	OK!
Pier Reinforcement Ratio:	0.007		Reinforcement Ratio is satisfied per A	CI		
(2).Concrete Pad:						
One-Way Design Shear Capacity (L-Direction, Kips):	674.7	>	One-Way Factored Shear (L-D. Kips):	360.1	0.53	OK!
One-Way Design Shear Capacity (W-Direction, Kips):	674.7	>	One-Way Factored Shear (W-D., Kips)	360.1	0.53	OK!
One-Way Design Shear Capacity (Corner-Corner. Kips):	688.8	>	One-Way Factored Shear (C-C, Kips):	380.7	0.55	OK!
Lower Steel Pad Reinforcement Ratio (L-Direct.):	0.0080	OK!	Lower Steel Pad Reinf. Ratio (W-Direc	0.0080		
Lower Steel Pad Moment Capacity (L-Direction. Kips-ft):	4871.5	>	Moment at Bottom (L-Dir. K-Ft):	2035.3	0.42	OK!
Lower Steel Pad Moment Capacity (W-Direction. Kips-ft):	4871.5	>	Moment at Bottom (W-Dir. K-Ft):	2035.3	0.42	OK!
Lower Steel Pad Moment Capacity (Corner-Corner,K-ft):	6762.3	>	Moment at Bottom (C-C Dir. K-Ft):	2878.4	0.43	OK!
Upper Steel Pad Reinforcement Ratio (L-Direct.):	0.0080	OK!	Upper Steel Reinf. Ratio (W-Dir.):	0.0080		
Upper Steel Pad Moment Capacity (L-Direc. Kips-ft):	4871.5	>	Moment at the top (L-Dir K-Ft):	1016.9	0.21	OK!
Upper Steel Pad Moment Capacity (W-Direc. Kips-ft):	4871.5	>	Moment at the top (W-Dir K-Ft):	1016.9	0.21	OK!
Upper Steel Pad Moment Capacity (Corner-Corner. K-ft):	6762.3	>	Moment at the top (C-C Dir. K-Ft):	953.6	0.14	OK!
(3). Check Punching Shear Capacity due to Moment in the Pier:						
Moment transferred by punching shear:	2527.6	k-ft.	Max. factored shear stress $v_{u_{CD}}$:		6.0	Psi
Max. factored shear stress v _{u_AB} :	19.2	Psi	Factored shear Strength φv _n :		189.7	Psi
Max. factored shear stress v _u :	19.2	Psi	Check Usage of Punching Shear Cap	pacity:	0.10	OK!
(4).Check Bending Capacity of the Pad Within the Effective Slab Width:						
Overturning moment to be transferred by flexure:	1895.7	k-ft.	Effective Width for resisting OT mome	nt:	14.0	ft.
Calculated number of Rebar in Effective width:	28		Actual number of Rebar in Effective wi	dth:	28	
Steel Pad Moment Capacity (L-Direc. Kips-ft):	2389.8	k-ft.	Check Usage of the Flexure Capacit	y:	0.79	OK!

Exhibit E

Mount Analysis

January 23, 2023



Sherri Knapik SBA Network Services, LLC. 134 Flanders Road, Suite 125 Westborough, MA 01581 (508) 251-0720 x 3805 MTS Engineering, P.L.L.C. 1717 S. Boulder, Suite 300 Tulsa, OK 74119 (918) 587-4630 towersupport@btgrp.com

Subject:	Appurtenance Mount Analysis Report	
Carrier Designation:	<i>Dish Wireless</i> Co-Locate Site Number: Site Name:	BOBOS00055A N/A
SBA Network Services Designation:	Site Number: Site Name: Application Number:	CT11796-S North Stonington 3 178876, v1
Engineering Firm Designation:	B+T Group Project Number:	149459.004.01
Site Data: 350B Cos	saduck Hill Road, North Stonington, CT, 0635 Latitude <i>41.49923°</i> , Longitude <i>-71.88952°</i> Monopole 8 ft. Platform Mount	9, New London County

Dear Ms. Knapik,

We are pleased to submit this "**Appurtenance Mount Analysis Report**" to determine the structural integrity of the antenna mount on the above-mentioned structure.

The purpose of the analysis is to determine acceptability of the mount's stress level. Based on our analysis we have determined the stress level for the mount under the following load case to be:

Proposed Equipment Note: See Table 1 for the final loading configuration Sufficient Capacity (Passing at 64.8%)

This analysis utilizes an ultimate 3-second gust wind speed of 126 mph as required by the 2022 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria

All the equipment proposed in this report shall be installed in accordance with the drawings for the determined available structural capacity to be effective.

We appreciate the opportunity of providing our continuing professional services to you and *SBA Network Services, LLC.* If you have any questions or need further assistance on this or any other projects, please give us a call.

Mount structural analysis prepared by: Gertha Wesh

Respectfully submitted by: MTS Engineering, P.L.L.C. COA: BER:2386985 Expires: 3/31/2023



Chad E. Tuttle, P.E.

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1) INTRODUCTION

The appurtenance mount consists of Commscope platform mount, (Part# MC-PK8-DSH) at 168 ft., attached to monopole at 350B Cossaduck Hill Road, North Stonington, CT, 06359, New London County. The proposed antenna loading information was obtained from SBA Network Services, LLC. All information provided to us was assumed accurate and complete.

2) ANALYSIS CRITERIA

The structural analysis was performed for this mount in accordance with the ANSI/TIA-222-H-2017 Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures using a 3-second gust wind speed of 126 mph with no ice and 50 mph with 1 inch escalated ice thickness. Exposure Category C, Topographic Category 1 and Risk Category II were used in this analysis. In addition, the platform mount has been analyzed for various live loading conditions consisting of a 250-lb man live load applied individually at the midpoint and cantilevered ends of horizontal members as well as a 500-pound man live load applied individually at mount pipe locations using a 3-second gust of 30 mph. The mount was analyzed under 30° increments in the wind direction. The analyzed loading is detailed in Table 1.

Loading	RAD Center Elev. (ft.)	Position	Qty.	Description	Note
	160 1		3	Commscope FFVV-65B-R2	1
Dranagad		3	Fujitsu TA08025-B605	2	
Proposed	168		3	Fujitsu TA08025-B604	2
		-	1	Raycap RDIDC-9181-PF-48	3

Table 1 – Proposed Equipment Information

Note:

(1) Proposed Antenna to be installed on the proposed Mount Pipe.

(2) Proposed Equipment to be installed directly behind the Antenna.

(3) Proposed Equipment to be installed on the mount.

Table 2 – Documents Provided

Documents	Remarks	Reference	Source
SBA Application	Proposed Loading	Date: 11/08/2021	SBA Network Services, LLC.

3) ANALYSIS PROCEDURE

3.1) Analysis Method

RISA-3D (Version 19.0.4), a commercially available analysis software package, was used to create a three-dimensional model of the mount and calculate member stresses and deflections for various loading cases. Selected output from the analysis is included in Appendix A.

Manufacturers drawing were used to create the model.

3.2) Assumptions

- 1. The mount was built in accordance with the manufacturer's specifications.
- 2. The mount has been maintained in accordance with the manufacturer's specifications and is free of damage.
- 3. The configuration of antennas and other appurtenances are as specified in Table 1.
- 4. All mount components have been assumed to be in sufficient condition to carry their full design capacity for the analysis.
- 5. Mount areas and weights are determined from field measurements, standard material properties, and/or manufacturer product data.

- 6. Serviceability with respect to antenna twist, tilt, roll or lateral translation is not checked and is left to the carrier or tower owner to ensure conformance.
- 7. All prior structural modifications, if any are assumed to be correctly installed and fully effective.
- 8. 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.
- 9. The following material grades were assumed (Unless Noted Otherwise):
 - a) Connection Bolts : ASTM A325
 - b) Steel Pipe : ASTM A53 (GR. 35)
 - c)
 HSS (Round)
 : ASTM 500 (GR. B-42)

 d)
 HSS (Rectangular)
 : ASTM 500 (GR. B-46)

 e)
 Channel
 : ASTM A36 (GR. 36)

 f)
 Steel Solid Rod
 : ASTM A36 (GR. 36)
 - g) Steel Plate : ASTM A36 (GR. 36)
 - h) Steel Angle : ASTM A36 (GR. 36)
 - i) UNISTRUT : ASTM A570 (GR. 33)

This analysis may be affected if any assumptions are not valid or have been made in error. B+T Group should be notified to determine the effect on the structural integrity of the antenna mounting system.

4) ANALYSIS RESULTS

Table 3 – Mount Component Stresses vs. Capacity

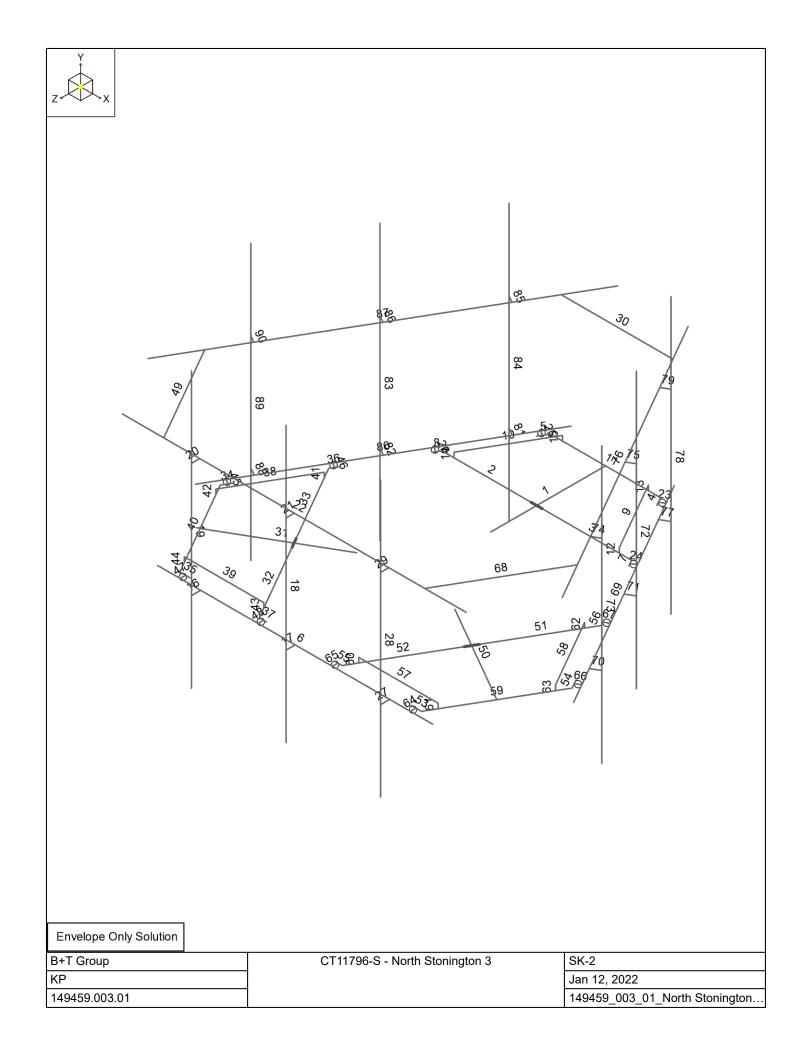
Notes	Component	Elevation (ft.)	% Capacity	Pass / Fail
-	Main Horizontals	168	10.7	Pass
-	Support Rails	168	18.2	Pass
-	Support Tubes	168	64.8	Pass
-	Support Channels	168	42.6	Pass
-	Support Angles	168	36.3	Pass
-	Mount Pipes	168	20.7	Pass
-	Connection Plates	168	21.4	Pass
-	Connection Angles	168	48.6	Pass
-	Connection Bolts	168	33.7	Pass

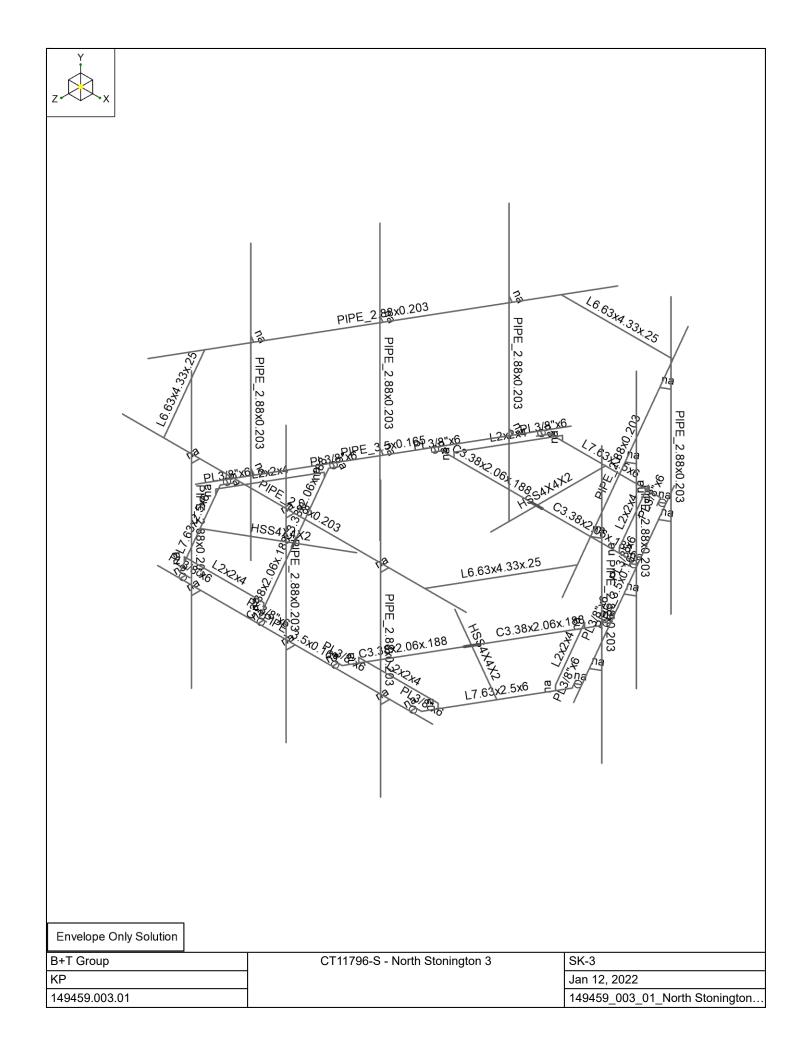
5) RECOMMENDATIONS

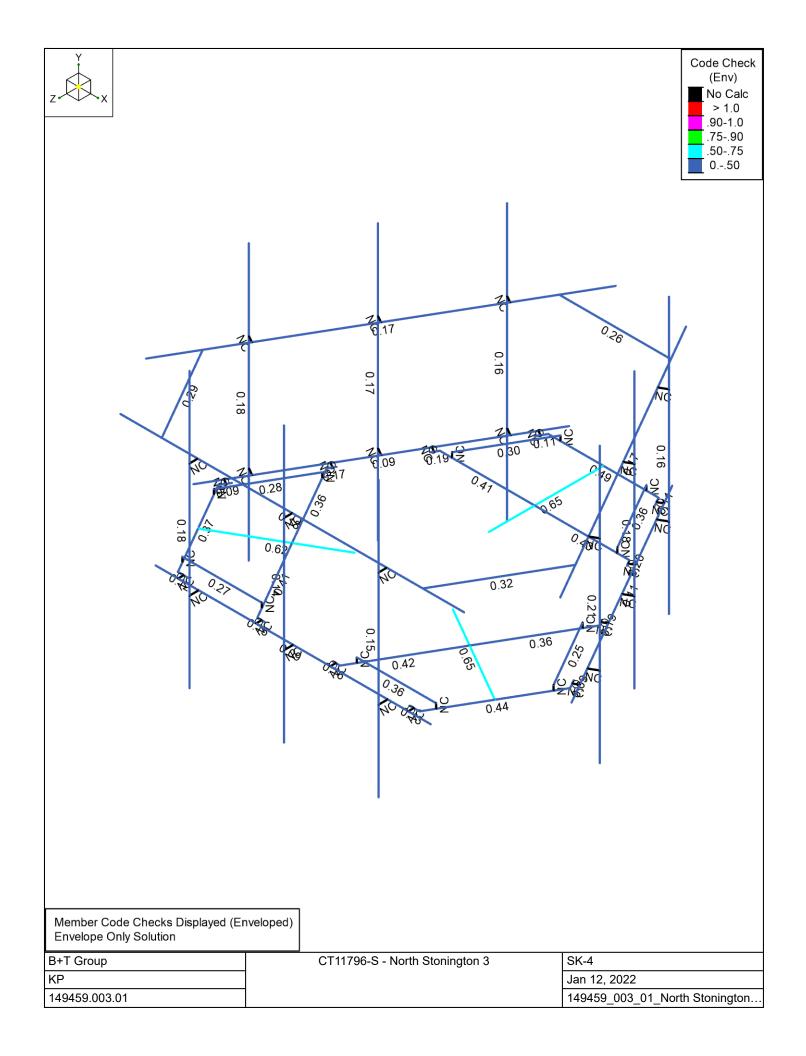
The Commscope platform mount, (Part# MC-PK8-DSH) has sufficient capacity to carry the proposed loads and is in compliance with the ANSI/TIA-222-H standard for the proposed loading. (Refer to the RISA output for the specific members).

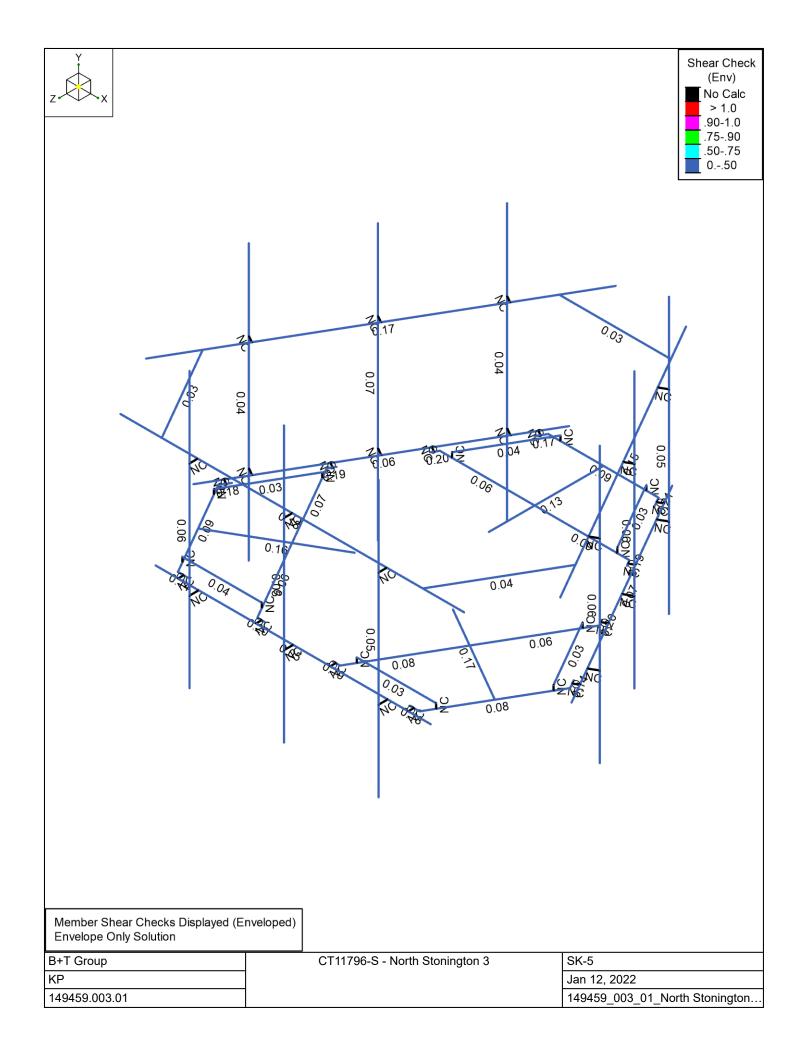
APPENDIX A (RISA-3D Output)

Envelope Only Solution		
B+T Group KP	CT11796-S - North Stonington 3	SK-1 Jan 12, 2022
149459.003.01	1	149459_003_01_North Stonington











Location

ASCE 7 Hazards Report

Standard:ASCE/SEI 7-16Risk Category:IISoil Class:D - Default (see
Section 11.4.3)

 Elevation:
 443.05 ft (NAVD 88)

 Latitude:
 41.499233

 Longitude:
 -71.889522



Wind

Results:

Wind Speed	126 Vmph
10-year MRI	76 Vmph
25-year MRI	86 Vmph
50-year MRI	98 Vmph
100-year MRI	104 Vmph

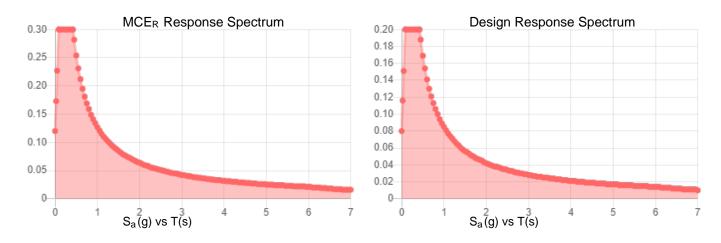
Data Source:	ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed:	Wed Jan 12 2022

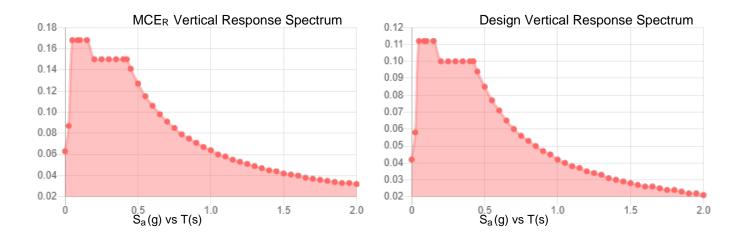
Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.



Site Soil Class: Results:	D - Default (see S	Section 11.4.3)	
S _S :	0.188	S _{D1} :	0.085
S ₁ :	0.053	Τ∟ :	6
F _a :	1.6	PGA :	0.103
F _v :	2.4	PGA M:	0.164
S _{MS} :	0.3	F _{PGA} :	1.595
S _{M1} :	0.127	l _e :	1
S _{DS} :	0.2	C _v :	0.7
Seismic Design Category	В		





Data Accessed:

Wed Jan 12 2022

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.



.....

Results:

Ice Thickness:	1.00 in.
Concurrent Temperature:	15 F
Gust Speed	50 mph
Data Source:	Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8
Date Accessed:	Wed Jan 12 2022

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

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 500-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

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

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

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

PROJECT	149459.003.01 - North Stoniı				
SUBJECT	Platform Mount Analysis				
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Tower Type		:	Monopole		
Ground Elevation	Z_s	:	443	ft	[ASCE7 Hazard Tool]
Tower Height		:	189.00	ft	
Mount Elevation		:	168.00	ft	
Antenna Elevation		:	168.00	ft	
Crest Height		:	0	ft	
Risk Category		:	II		[Table 2-1]
Exposure Category		:	С		[Sec. 2.6.5.1.2]
Topography Category		:	1.00		[Sec. 2.6.6.2]
Wind Velocity	V	:	126	mph	[ASCE7 Hazard Tool]
Ice wind Velocity	V_i	:	50	mph	[ASCE7 Hazard Tool]
Service Velocity	$V_{\rm s}$:	30	mph	[ASCE7 Hazard Tool]
Base Ice thickness	ti	:	1.00	in	[ASCE7 Hazard Tool]
Seismic Design Cat.		:	В		[ASCE7 Hazard Tool]
	S_S	:	0.19		
	S_1	:	0.05		
	S _{DS}	:	0.20		
	S _{D1}	:	0.09		
	51				
Gust Factor	G_h	:	1.00		[Sec. 16.6]
Pressure Coefficient	Kz	:	1.41		[Sec. 2.6.5.2]
Topography Factor	K _{zt}	:	1.00		[Sec. 2.6.6]
Elevation Factor	K _e	:	0.98		[Sec. 2.6.8]
Directionality Factor	K _d	:	0.95		[Sec. 16.6]
Shielding Factor	Ka	:	0.90		[Sec. 16.6]
Design Ice Thickness	t _{iz}	:	1.18	in	[Sec. 2.6.10]
5	-				
Importance Factor	Ie	:	1		[Table 2-3]
Response Coefficient	C _s	:	0.100		[Sec. 2.7.7.1]
Amplification	As	:	2.555556		[Sec. 16.7]
	-				-
	q _z	:	53.64	psf	

PROJECT	CT 149459.003.01 - North Stoni KS				
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Manufacturer	Model	Qty	Aspect	Ca	EPA_{N} (ft ²)	$\mathbf{EPA}_{T}(ft^2)$	EPA _{N-Ice}	EPA _{T-Ice}	FA No Ice (N)	F _{A No Ice (T)}	F _{A Ice (N)}	F _{A Ice (T)}
			Ratio	flat/round			(ft ²)	(ft ²)				
Commscope	FFVV-65B-R2	0.5	3.67	1.25	4.90	1.95	5.67	2.62	0.30	0.12	0.05	0.02
Commscope	FFVV-65B-R2	0.5	3.67	1.25	4.90	1.95	5.67	2.62	0.30	0.12	0.05	0.02
Fujitsu	TA08025-B605	1	1.05	1.20	1.64	0.99	2.18	1.43	0.09	0.06	0.01	0.01
Fujitsu	TA08025-B604	1	1.05	1.20	1.64	0.86	2.18	1.29	0.09	0.05	0.01	0.01
Commscope	FFVV-65B-R2	0.5	3.67	1.25	4.90	1.95	5.67	2.62	0.30	0.12	0.05	0.02
Commscope	FFVV-65B-R2	0.5	3.67	1.25	4.90	1.95	5.67	2.62	0.30	0.12	0.05	0.02
Fujitsu	TA08025-B605	1	1.05	1.20	1.64	0.99	2.18	1.43	0.09	0.06	0.01	0.01
Fujitsu	TA08025-B604	1	1.05	1.20	1.64	0.86	2.18	1.29	0.09	0.05	0.01	0.01
Commscope	FFVV-65B-R2	0.5	3.67	1.25	4.90	1.95	5.67	2.62	0.30	0.12	0.05	0.02
Commscope	FFVV-65B-R2	0.5	3.67	1.25	4.90	1.95	5.67	2.62	0.30	0.12	0.05	0.02
Fujitsu	TA08025-B605	1	1.05	1.20	1.64	0.99	2.18	1.43	0.09	0.06	0.01	0.01
Fujitsu	TA08025-B604	1	1.05	1.20	1.64	0.86	2.18	1.29	0.09	0.05	0.01	0.01
Raycap	RDIDC-9181-PF-48	1	1.14	1.20	1.68	0.94	2.22	1.38	0.10	0.05	0.02	0.01

APPENDIX B (Additional Calculations)

PROJECT	149459.003.01 - North Stonington 3,				
SUBJECT	Platform M	lount Analysis			
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Reactions at Bolted Connection

Tension	:	1.728	k
Vertical Shear	:	2.049	k
Horizontal Shear	:	1.509	k
Torsion	:	0.406	k.ft
Moment from Horizontal Forces	:	1.524	k.ft
Moment from Vertical Forces	:	4.794	k.ft

Bolt Parameters

Bolt Grade	:	A325	
Bolt Diameter	:	0.625	in
Nominal Bolt Area	:	0.307	in ²
Bolt spacing, Horizontal	:	6	in
Bolt spacing, Vertical	:	6	in
Bolt edge distance, plate height	:	1	in
Bolt edge distance, plate width	:	1	in
Total Number of Bolts	:	4	bolts

Summary of Forces

Shear Resultant Force	:	2.54	k
Force from Horz. Moment	:	2.76	k
Force from Vert. Moment	:	8.68	k
Shear Load / Bolt	:	0.64	k
Tension Load / Bolt	:	0.43	k
Resultant from Moments / Bolt		4 56	k
Resultant non moments / Doit	•	JU	ĸ

Bolt Checks

Nominal Tensile Stress, F _{nt} Available Tensile Stress, ΦR _{nt} Unity Check, Bolt Tension	:	90.00 20.72 24.07%	ksi k/bolt	[AISC Table J3.2] [Eq. J3-1] OKAY
Nominal Shear Stress, F_{nv} Available Shear Stress, ΦR_{nv} Unity Check, Bolt Shear	::	48.00 11.05 9.66%	ksi k/bolt	[AISC Table J3.2] [Eq. J3-1] OKAY
Unity Check, Combined	:	33.73%		ΟΚΑΥ
Available Bearing Strength, ΦR_n Unity Check, Bolt Bearing	:	18.35 3.47%	k/bolt	OKAY

[REF: AISC 360-05]

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[AISC Table 2-5] [AISC Table 2-5] [REF: AISC 360-05]

Connecting Member Parameters						
Plate Yield Strength, F _y	:	36.00	ksi			
Plate Tensile Strength, F _u	:	58.00	ksi			
Plate Height	:	9.00	in			
Plate Width	:	9.00	in			
Plate Thickness	:	0.50	in			
Edge Distance	:	0.56	in			
Gross Tension Area, A _{gt}	:	4.50	in ²			
Gross Shear Area, A _{gv}	:	0.5	in ²			
Net Area for tension, A_{nv}	:	4.16	in ²			
Net Area for shear, A _{nt}	:	3.00	in ²			

Plate Check

Available Tensile Yield Available Tensile Rupture Unity Check, Plate Tension	: : :	145.80 180.80 3.42%	k k	[Eq. 34-1] [Eq. 34-2] OKAY
Available Shear Yield Available Shear Rupture Unity Check, Plate Shear	:	10.80 104.40 23.56%	k k	[Eq. J4-3] [Eq. J4-4] OKAY
Available Block Shear, ΦRn Unity Check, Block Shear	:	73.35 3.47%	k	[Eq. J4-5] OKAY

Exhibit F

Power Density/RF Emissions Report



Radio Frequency Emissions Analysis Report



Site ID: BOBOS00055A

SBA - Cossaduck Hill Road 350B Cossaduck Hill Road North Stonington, CT 06359

January 6, 2023

Fox Hill Telecom Project Number: 222135

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general population allowable limit:	4.86 %



January 6, 2023

Dish Wireless 5701 South Santa Fe Drive Littleton, CO 80120

Emissions Analysis for Site: BOBOS00055A - SBA - Cossaduck Hill Road

Fox Hill Telecom, Inc ("Fox Hill") was directed to analyze the proposed radio installation for Dish Wireless, LLC (Dish) facility located at **350B Cossaduck Hill Road, North Stonington, CT**, for the purpose of determining whether the emissions from the Proposed Dish radio and antenna installation located on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter (μ W/cm2). The number of μ W/cm² calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) - (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

<u>General population/uncontrolled exposure</u> limits apply to situations in which the general population may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general population would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Population exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter (μ W/cm²). The general population exposure limit for the 600 MHz band is approximately 400 μ W/cm². The general population exposure limit for the 1900 MHz (PCS) and 2100 MHz (AWS / AWS-4) bands is 1000 μ W/cm². Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.



<u>Occupational/controlled exposure</u> limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over their exposure and can exercise control over the potential for exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.



CALCULATIONS

Calculations were performed for the proposed upgrades to the Dish Wireless antenna facility located at **350B Cossaduck Hill Road, North Stonington, CT**, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65 for far field modeling calculations.

In OET-65, plane wave power densities in the Far Field of an antenna are calculated by considering antenna gain and reflective waves that would contribute to exposure.

Since the radiation pattern of an antenna has developed in the **Far Field** region the power gain in specific directions needs to be considered in exposure predictions to yield an Effective Radiated Power (ERP) in each specific direction from the antenna. Also, since the vertical radiation pattern of the antenna is considered, the exposure calculations would most likely be reduced significantly at ground level, resulting in a more realistic estimate of the actual exposure levels. To determine a worst-case scenario at each point along the calculation radials, each point was calculated using the antenna gain value at each angle of incident and compared against the result using an isotropic radiator at the antenna height with the greater of the two used to yield the more pessimistic far field value for each point along the calculation radial.

Additionally, to model a truly "worst case" prediction of exposure levels at or near a surface, such as at ground-level or on a rooftop, reflection off the surface of antenna radiation power can be assumed, resulting in a potential 1.6 times increase in power density in calculating far field power density values.

With these factors Considered, the worst case **Far Field prediction model** utilized in this analysis is determined by the following equation:

Equation 9 per FCC OET65 for Far Field Modeling

$$S = \frac{33.4 \ ERP}{R^2}$$

$$\begin{split} S &= Power \ Density \ (in \ \mu w/cm^2) \\ ERP &= Effective \ Radiated \ Power \ from \ antenna \ (watts) \\ R &= Distance \ from \ the \ antenna \ (meters) \end{split}$$

Predicted far field power density values for all carriers identified in this report were calculated 6 feet above the ground level and are displayed as a percentage of the applicable FCC standards. All emissions values for other carriers were calculated using the same Far Field model outlined above, using industry standard radio configurations and frequency band selection based upon available licenses in this geographic area for emissions contribution estimates.



For each Dish sector the following channel counts, frequency bands and power levels were utilized as shown in *Table 1*:

Technology	Frequency Band	Channel Count	Transmit Power per Channel (W)
5G	n71 (600 MHz)	4	61.5
5G	n70 (AWS-4 / 1995-2020)	4	40
5G	n66 (AWS-4 / 2180-2200)	4	40

Table 1: Channel Data Table



The following **Dish** antennas listed in *Table 2* were used in the modeling for transmission in the 600 MHz (n71) frequency band and the 2100 MHz (AWS 4) frequency bands at 1995-2020 MHz (n70) and 2180-2200 MHz (n66). This is based on feedback from Dish regarding anticipated antenna selection. Maximum gain values for all antennas are listed in the Inventory and Power Data table below.

	Antenna		Antenna Centerline
Sector	Number	Antenna Make / Model	(ft)
А	1	Commscope FFVV-65B-R2	168
В	1	Commscope FFVV-65B-R2	168
С	1	Commscope FFVV-65B-R2	168

Table 2: Antenna Data

All calculations were done with respect to uncontrolled / general population threshold limits.



RESULTS

Per the calculations completed for the proposed **Dish** configurations *Table 3* shows resulting emissions power levels and percentages of the FCC's allowable general population limit.

Antenna	Antenna Make		Antenna Gain	Channel	Total TX		
ID	/ Model	Frequency Bands	(dBd)	Count	Power (W)	ERP (W)	MPE %
		n71 (600 MHz) /					
Antenna	Commscope	n70 (AWS-4 / 1995-2020) /	12.15 / 15.95 /				
A1	FFVV-65B-R2	n66 (AWS-4 / 2180-2200)	16.25	12	566	17,079.80	1.25
				S	Sector A Comp	osite MPE%	1.25
		n71 (600 MHz) /					
Antenna	Commscope	n70 (AWS-4 / 1995-2020) /	12.15 / 15.95 /				
B1	FFVV-65B-R2	n66 (AWS-4 / 2180-2200)	16.25	12	566	17,079.80	1.25
Sector B Composite MPE%						1.25	
		n71 (600 MHz) /					
Antenna	Commscope	n70 (AWS-4 / 1995-2020) /	12.15 / 15.95 /				
C1	FFVV-65B-R2	n66 (AWS-4 / 2180-2200)	16.25	12	566	17,079.80	1.25
Sector C Composite MPE%						1.25	

Table 3: Dish Emissions Levels



The Following table (*Table 4*) shows all additional carriers on site and their emissions contribution estimates, along with the newly calculated **Dish** far field emissions contributions per this report. FCC OET 65 specifies that for carriers utilizing directional antennas that the highest recorded sector value be used for composite site emissions values due to their greatly reduced emissions contributions in the directions of the adjacent sectors. For this site, all three sectors have the same configuration yielding the same results on all three sectors. *Table 5* below shows a summary for each **Dish** Sector as well as the composite emissions value for the site.

Site Composite MPE%				
Carrier	MPE%			
Dish – Max Per Sector Value	1.25 %			
AT&T	1.73 %			
Verizon Wireless	1.39 %			
CL&P	0.49 %			
Site Total MPE %:	4.86 %			

Table 4: All Carrier MPE Contributions

Dish Sector A Total:	1.25 %
Dish Sector B Total:	1.25 %
Dish Sector C Total:	1.25 %
Site Total:	4.86 %

Table 5: Site MPE Summary



Table 6 below details a breakdown by frequency band and technology for the MPE power values for the maximum calculated **Dish** sector(s). For this site, all three sectors have the same configuration yielding the same results on all three sectors.

Dish _ Frequency Band / Technology Max Power Values (Per Sector)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density (µW/cm ²)	Frequency (MHz)	Allowable MPE (µW/cm ²)	Calculated % MPE
Dish n71 (600 MHz) 5G	4	1,008.96	168	3.24	n71 (600 MHz)	400	0.81%
Dish n70 (AWS-4 / 1995-2020) 5G	4	1,574.20	168	2.20	n70 (AWS-4 / 1995-2020)	1000	0.22%
Dish n66 (AWS-4 / 2180-2200) 5G	4	1,686.79	168	2.20	n66 (AWS-4 / 2180-2200)	1000	0.22%
						Total:	1.25 %

Table 6: Dish Maximum Sector MPE Power Values



Summary

All calculations performed for this analysis yielded results that were **within** the allowable limits for general population exposure to RF Emissions.

The anticipated maximum composite contributions from the Dish facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general population exposure to RF Emissions are shown here:

Dish Sector	Power Density Value (%)
Sector A:	1.25 %
Sector B:	1.25 %
Sector C:	1.25 %
Dish Maximum Total (per sector):	1.25 %
Site Total:	4.86 %
Site Compliance Status:	COMPLIANT

The anticipated composite emissions value for this site, assuming all carriers present, is **4.86** % of the allowable FCC established general population limit sampled at the ground level. This is based upon the far field calculations performed for all carriers identified in this report.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were well within the allowable 100% threshold standard per the federal government.

let Aff

Scott Heffernan Principal RF Engineer Fox Hill Telecom, Inc Worcester, MA 01609 (978)660-3998

Exhibit G

Letter of Authorization

SBA Letter of Authorization

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

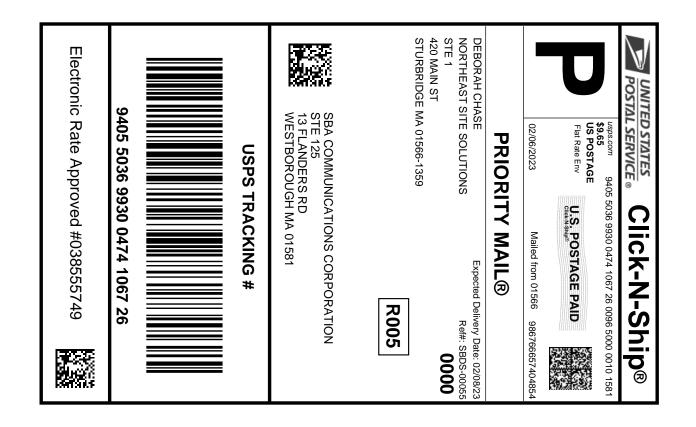
Re: Tower Share Application

SBA COMMUNICATIONS CORPORATION hereby authorizes DISH Wireless LLC, including their Agent, to act as our Agent in the processing of all zoning applications, building permits and approvals through the CONNECTICUT SITING COUNCIL for existing wireless communications towers.

SBA COMMUNICATIONS CORPORATION 134 Flanders Road, Suite 125 Westboro, MA 01581

Exhibit H

Recipient Mailings

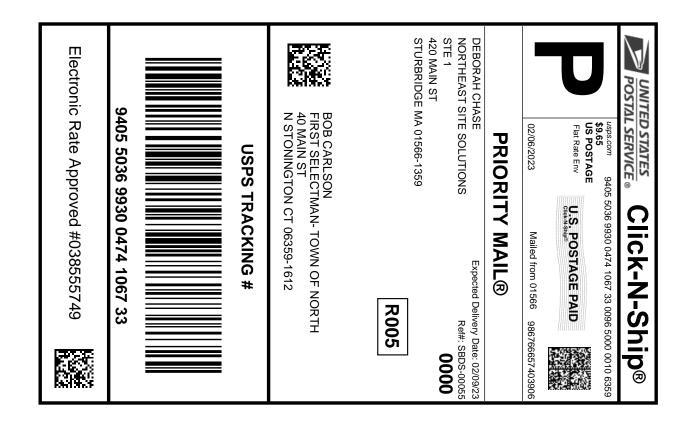


Instructions

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

Click-N-Ship® Label Record



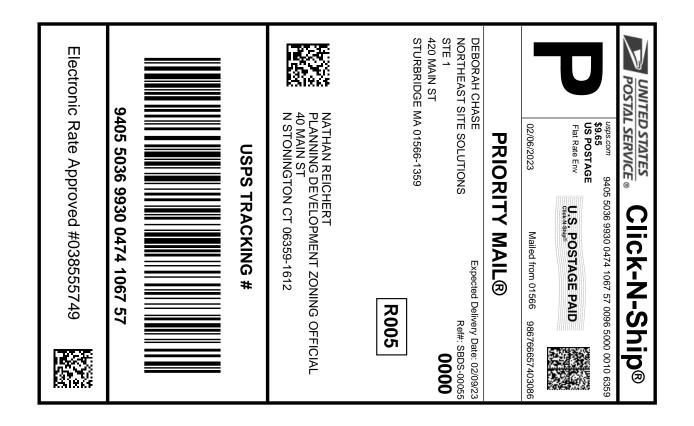


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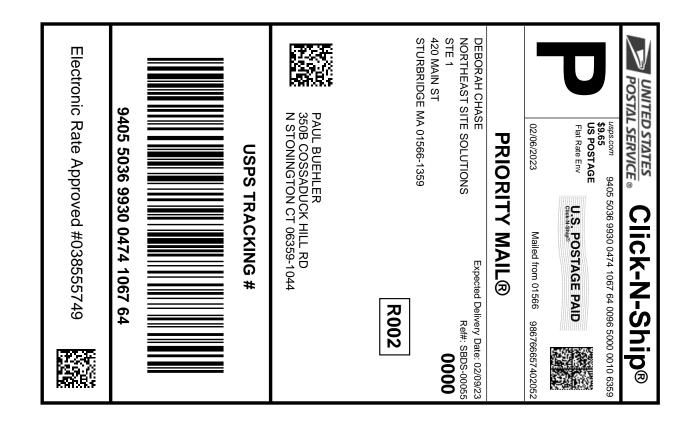


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Click-N-Ship® Label Record

USPS TRACKING #: 9405 5036 9930 0474 1067 64 Priority Mail® Postage: \$9.65 582097903 02/06/2023 02/06/2023 Trans. #: Total. \$9.65 Print Date: Ship Date: xpected Delivery Date: 02/09/2023 From: DEBORAH CHASE Ref#: SBDS-00055 NORTHEAST SITE SOLUTIONS STE 1 420 MAIN ST STURBRIDGE MA 01566-1359 To: PAUL BUEHLER 350B COSSADUCK HILL RD N STONINGTON CT 06359-1044 * Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.





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Product	Qty	Unit Price	Price
Prepaid Mail Westborough, Weight: 0 lk Acceptance I Tue 02/0 Tracking #: 9405 50	1 MA 01581 1.90 oz Date: 07/2023	74 1067 2	\$0.00
T line H	hgton, cr b 15.30 d Date: /07/2023)2	\$0.00 33
m liter t	1hgton, 01 1b 15.70 Date: 2/07/2023		\$0.00 57
Weight: O Acceptanc Tue O	11ngton, C 16 15.40 e Date: 2/07/2023	02	\$0.00
Grand Total:	-		\$0.00