

STATE OF CONNECTICUT *CONNECTICUT SITING COUNCIL* Ten Franklin Square, New Britain, CT 06051 Phone: (860) 827-2935 Fax: (860) 827-2950 E-Mail: siting.council@ct.gov Web Site: portal.ct.gov/csc

VIA ELECTRONIC MAIL

February 4, 2022

Denise Sabo Northeast Site Solutions 54 Main Street, Unit 3 Sturbridge, MA 01506 denise@northeastsitesolutions.com

RE: TS-DISH-106-211022 – Dish Wireless LLC request for an order to approve tower sharing at an existing telecommunications facility located at 1363 Boston Post Road, Old Saybrook, Connecticut.

Dear Ms. Sabo:

The Connecticut Siting Council (Council) is in receipt of your correspondence of February 3, 2022 submitted in response to the Council's November 24, 2021 notification of an incomplete request for tower sharing with regard to the above-referenced matter.

The submission renders the request for tower sharing complete and the Council will process the request in accordance with the Federal Communications Commission 60-day timeframe.

Thank you for your attention and cooperation.

Sincerely,

Mulinethal

Melanie A. Bachman Executive Director

MAB/IN/emr

From: Deborah Chase <deborah@northeastsitesolutions.com>

Sent: Thursday, February 3, 2022 11:53 AM

To: CSC-DL Siting Council <Siting.Council@ct.gov>; Bachman, Melanie

<Melanie.Bachman@ct.gov>; Mathews, Lisa A <Lisa.A.Mathews@ct.gov>; Fontaine, Lisa <Lisa.Fontaine@ct.gov>

Cc: Denise <denise@northeastsitesolutions.com>; Chuck Regulbuto

<chuck@northeastsitesolutions.com>; victoria@northeastsitesolutions.com; Jason Berry <jberry@northeastsitesolutions.com>

Subject: 1363 BOSTON POST ROAD OLD SAYBROOK CT 06475 DISH WIRELESS TOWER SHARE APPLICATION (BOBDL0001213A_DISH)

EXTERNAL EMAIL: This email originated from outside of the organization. Do not click any links or open any attachments unless you trust the sender and know the content is safe. Siting Council

Please see attached updated DISH Tower Share Application for the above referenced site. Per the incomplete letter dated November 24,2021, I have added in the newly updated Construction Drawings, Structural Analysis and Mount Analysis.

I have also added the extension letter as well as the postal slip for the hard copy that has been sent.

Please let us know if this is sufficient enough to be accepted as a completed application. Thank you very much

Deborah Chase

Senior Project Coordinator & Analyst Mobile: 860-490-8839



A Save a tree. Refuse.Reduce. Reuse. Recycle.



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

October 20, 2021

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

RE: Tower Share Application 1363 Boston Post Rd, Old Saybrook, CT 06475 Latitude: 41.2898 N Longitude: -72.4059 W Site# BOBDL00113A_Dish_Old Saybrook_TS_Zoning

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 1363 Boston Post Rd, Old Saybrook, Connecticut.

Dish Wireless LLC proposes to install three (3) 600/19005G MHz antenna and six (6) RRUs, at the 75-foot level of the existing 99-foot monopole tower, one (1) Fiber cables will also be installed. Dish Wireless LLC equipment cabinets will be placed within 7x5 lease area. Included are plans by Infinigy, dated September 23, 2021, Exhibit C. Also included is a structural analysis prepared by GPD Engineering and Architecture Professional Corporation, dated September 21, 2021, confirming that the existing tower is structurally capable of supporting the proposed equipment. Attached as Exhibit D. This facility was approved by the Connecticut Siting Council, Docket No. 411 on April 28, 2018. 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 Carl P. Fortuna, Jr., First Selectman for the Town of Old Saybrook, Christine M. Coste, Town Planner and Zoning Enforcement Officer, Land Use for the Town of Old Saybrook, as well as the property owner Octagon Towers, LLC and Blue Sky Tower Management, tower 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 modifications will not result in an increase in the height of the existing structure. The top of the tower is 99-feet; Dish Wireless LLC proposed antennas will be located at a center line height of 75-feet.

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

3. The proposed modification will not increase the 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.

1053 FARMINGTON AVE, UNIT G | FARMINGTON CT 06032 | WWW.NORTHEASTSITESOLUTIONS.COM



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. As indicated in the attached power density calculations, the combined site operations will result in a total density of 25.61% as evidenced by Exhibit F.

Connecticut General Statutes 16-50-aa 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 indicates 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 in 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 Monople tower in Old Saybrook. 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 75-foot level of the existing 99-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 share 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 Old Saybrook.

Sincerely,

Deníse Sabo

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

1053 FARMINGTON AVE, UNIT G | FARMINGTON CT 06032 | WWW.NORTHEASTSITESOLUTIONS.COM



Attachments Cc: <u>C</u>arl P. Fortuna, Jr., First Selectman Town of Old Saybrook Town Hall 302 Main Street Old Saybrook, CT 06475

Christina M. Costa Town Planner and Zoning Enforcement Officer, Land Use Town of Old Saybrook Town Hall 302 Main Street Old Saybrook, CT 06475

Octagon Towers, LLC 57 E. Washington Street Chagrin Falls, Ohio 44022

Blue Sky Tower Management, Tower Owner

Exhibit A

Original Facility Approval

DOCKET NO. 411 - New Cingular Wireless PCS, LLC	}	Connecticut
application for a Certificate of Environmental Compatibility and		
Public Need for the construction, maintenance and operation of a	}	Siting
telecommunications facility located at 1363 Boston Post Road,		
Old Saybrook, Connecticut.	}	Council
•	ŕ	

Decision and Order

April 28, 2011

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, maintenance, and operation of a telecommunications facility, including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate, either alone or cumulatively with other effects, when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application, and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to New Cingular Wireless PCS, LLC, hereinafter referred to as the Certificate Holder, for a telecommunications facility at 1363 Boston Post Road, Old Saybrook, Connecticut.

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

- 1. The tower shall be constructed as a monopole, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of New Cingular Wireless PCS, LLC and other entities, both public and private, but such tower shall not exceed a height of 100 feet above ground level.
- 2. The location of the telecommunications facility's compound shall be moved from the location shown on the site plans included in the Certificate application to the south and west by a distance sufficient to eliminate the need to clear trees for the development of the approved facility.
- 3. Antennas shall be installed on the tower using T-arm or flush mounts.

- 4. 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 Old Saybrook 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</u> <u>Erosion and Sediment Control</u>, as amended.
- 5. 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.
- 6. 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.
- 7. 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.
- 8. The Certificate Holder shall provide reasonable space on the tower for no compensation for any Town of Old Saybrook public safety services (police, fire and medical services), provided such use can be accommodated and is compatible with the structural integrity of the tower.
- 9. Unless otherwise approved by the Council, if the facility authorized herein is not fully constructed with at least one fully operational wireless telecommunications carrier providing wireless service within eighteen months from the date of the mailing of the Council's Findings of Fact, Opinion, and Decision and Order (collectively called "Final Decision"), this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made. The time between the filing and resolution of any appeals of the Council's Final Decision shall not be counted in calculating this deadline. Authority to monitor and modify this schedule, as necessary, is delegated to the Executive Director. The Certificate Holder shall provide written notice to the Executive Director of any schedule changes as soon as is practicable.

- 10. Any request for extension of the time period referred to in Condition 9 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 Old Saybrook. Any proposed modifications to this Decision and Order shall likewise be so served.
- 11. 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.
- 12. 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.
- 13. 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.
- 14. 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.
- 15. 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.
- 16. 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.
- 17. 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 the <u>Hartford Courant</u>.

Docket 411: Old Saybrook Decision and Order Page 4

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:

Applicant

New Cingular Wireless PCS, LLC

Its Representative

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

Michele Briggs AT&T 500 Enterprise Drive Rocky Hill, CT 06067-3900

Exhibit B

Property Card

1363 BOSTON POST RD

Location	1363 BOSTON POST RD	MBLU	027/ 023/ / /
Acct#	00366000	Owner	WILCOX FAMILY LLC
Assessment	\$1,455,700	Appraisal	\$2,079,600
PID	809	Building Count	4

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2018	\$1,412,300	\$667,300	\$2,079,600
Assessment			
Valuation Year	Improvements	Land	Total
2018	\$988,700	\$467,000	\$1,455,700

Owner of Record

Owner	WILCOX FAMILY LLC	Sale Price	\$0
Co-Owner		Certificate	
Address	26 QUARRY ST	Book & Page	0487/0320
	OLD SAYBROOK, CT 06475	Sale Date	08/16/2005

Ownership History

	Ownership History			
Owner	Sale Price	Certificate	Book & Page	Sale Date
WILCOX FAMILY LTD PARTNERSHIPS	\$450,000		0340/0791	12/31/1996

Building Information

Building 1 : Section 1

Year Built: Living Area:	1994 3,500		
	Building Attributes		
	Field	Description	
STYLE		Commercial	
MODEL		Commercial	

Grade	Below Avg
Stories:	1
Occupancy	1.00
Exterior Wall 1	Pre-finsh Metl
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Metal/Tin
Interior Wall 1	Drywall/Sheet
Interior Wall 2	
Interior Floor 1	Vinyl/Asphalt
Interior Floor 2	
Heating Fuel	Gas
Heating Type	Hot Water
АС Туре	Central
Struct Class	
Bldg Use	STORE/SHOP
Total Rooms	
Total Bedrms	00
Total Baths	0
Usrfld 218	
Usrfld 219	
1st Floor Use:	0321
Heat/AC	HEAT/AC PKGS
Frame Type	STEEL
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEILING ONLY
Rooms/Prtns	AVERAGE
Wall Height	14.00
% Comn Wall	0.00

Building 2 : Section 1

Year Built:	1950	
Living Area:	3,330	
	Building Attrib	utes : Bldg 2 of 4
F	ield	Description
STYLE		Store
MODEL		Commercial
Grade		Below Avg
Stories:		1
Occupancy		2.00
Exterior Wall 1		Vinyl Siding

Building Photo



(http://images.vgsi.com/photos/OldSaybrookCTPhotos//\00\01\04\84.jpg)

Building Layout



(http://images.vgsi.com/photos/OldSaybrookCTPhotos//Sketches/809_809

Building Sub-Areas (sq ft)			<u>Legend</u>
Code	Description	Gross Area	Living Area
BAS	First Floor	3,500	3,500
		3,500	3,500

Exterior Wall 2	
Roof Structure	Flat
Roof Cover	Tar & Gravel
Interior Wall 1	Drywall/Sheet
Interior Wall 2	
Interior Floor 1	Carpet
Interior Floor 2	Concr-Finished
Heating Fuel	Gas
Heating Type	Forced Air-Duc
АС Туре	Central
Struct Class	
Bldg Use	STORE/SHOP
Total Rooms	
Total Bedrms	00
Total Baths	0
Usrfld 218	
Usrfld 219	
1st Floor Use:	0321
Heat/AC	HEAT/AC PKGS
Frame Type	MASONRY
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	10.00
% Comn Wall	0.00

Building Photo



(http://images.vgsi.com/photos/OldSaybrookCTPhotos//default.jpg)

Building Layout



(http://images.vgsi.com/photos/OldSaybrookCTPhotos//Sketches/809_100

	Building Sub-Areas (sq ft)		
Code	Description	Gross Area	Living Area
BAS	First Floor	3,330	3,330
UOP	Porch, Open, Unfinished	712	0
		4,042	3,330

Building 3 : Section 1

Year Built:	1945	
Living Area:	1,446	
	Building Attribu	ites : Bldg 3 of 4
	Field	Description
Style		Ranch
Model		Residential
Grade:		Average +10
Stories:		1 Story
Occupancy		1

Exterior Wall 1	Brick Veneer
Exterior Wall 2	
Roof Structure:	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Plastered
Interior Wall 2	
Interior Flr 1	Hardwood
Interior FIr 2	
Heat Fuel	Oil
Heat Type:	Forced Air-Duc
АС Туре:	None
Total Bedrooms:	2 Bedrooms
Total Bthrms:	1
Total Half Baths:	0
Total Xtra Fixtrs:	
Total Rooms:	5 Rooms
Bath Style:	Average
Kitchen Style:	Modern
Num Kitchens	01
Cndtn	
Usrfld 103	
Usrfld 104	
Usrfld 105	
Usrfld 106	
Usrfld 107	
Num Park	
Fireplaces	
Usrfld 108	
Usrfld 101	
Usrfld 102	
Usrfld 100	
Usrfld 300	
Usrfld 301	

Building 4 : Section 1

Year Built:	1999
Living Area:	17,000
Building Attributes : Bldg 4 of 4	
Field	Description
STYLE	Pre-Eng Warehs
MODEL	Ind/Lg Com

Building Photo



(http://images.vgsi.com/photos/OldSaybrookCTPhotos//default.jpg)

Building Layout



(http://images.vgsi.com/photos/OldSaybrookCTPhotos//Sketches/809_100

	Building Sub-Areas (sq ft)		
Code	Description	Gross Area	Living Area
BAS	First Floor	1,446	1,446
FEP	Porch, Enclosed,Framed	288	0
UBM	Basement, Unfinished	1,446	0
UEP	Porch, Enclosed, Unfinished	189	0
		3,369	1,446

Grade	Average
Stories:	1
Occupancy	4.00
Exterior Wall 1	Pre-finsh Metl
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Metal/Tin
Interior Wall 1	Drywall/Sheet
Interior Wall 2	
Interior Floor 1	Concr-Finished
Interior Floor 2	Carpet
Heating Fuel	Gas
Heating Type	Forced Air-Duc
АС Туре	Central
Struct Class	
Bldg Use	STORE/SHOP MDL-95/96
Total Rooms	6
Total Bedrms	00
Total Baths	0
Usrfld 218	
Usrfld 219	
1st Floor Use:	0321
Heat/AC	HEAT/AC SPLIT
Frame Type	STEEL
Baths/Plumbing	ABOVE AVERAGE
Ceiling/Wall	NONE
Rooms/Prtns	ABOVE AVERAGE
Wall Height	12.00
% Comn Wall	

Building Photo



(http://images.vgsi.com/photos/OldSaybrookCTPhotos//default.jpg)

Building Layout



(http://images.vgsi.com/photos/OldSaybrookCTPhotos//Sketches/809_101

Building Sub-Areas (sq ft)			<u>Legend</u>
Code	Description	Gross Area	Living Area
BAS	First Floor	12,000	12,000
SDA	Store Display Area	5,000	5,000
		17,000	17,000
	•	· ·	

◀

Extra Features

	E	xtra Features		<u>Legend</u>
Code	Description	Size	Value	Bldg #
FPL1	FIREPLACE 1 ST	1.00 UNITS	\$2,400	3
OHD1	Over Head Dr 1	100.00 S.F.	\$1,700	4
OHD1	Over Head Dr 1	100.00 S.F.	\$1,700	4
OHD1	Over Head Dr 1	100.00 S.F.	\$1,700	4
OHD1	Over Head Dr 1	100.00 S.F.	\$1,700	4
A/C	AIR CONDITION	5000.00 UNITS	\$14,100	4

OHD2 Over Head Dr 2	108.00 S.F.	\$2,100	1
---------------------	-------------	---------	---

Land

Land Use		Land Line Valua	tion
Use Code	0322	Size (Acres)	7.28
Description	STORE/SHOP	Depth	0
Zone	B-4	Assessed Value	\$467,000
		Appraised Value	\$667,300

Outbuildings

		C	Outbuildings			<u>Legend</u>
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
PAV1	PAVING-ASPHALT			7500.00 S.F.	\$16,900	1
SHD1	SHED FRAME			100.00 S.F.	\$1,500	2
SHD4	COMM,METAL			560.00 S.F.	\$9,200	1
SHD4	COMM,METAL			168.00 S.F.	\$2,800	1
SHD1	SHED FRAME			140.00 S.F.	\$2,100	1
SHD1	SHED FRAME			80.00 S.F.	\$1,200	1
FGR1	GARAGE-AVE			288.00 S.F.	\$8,600	1

Valuation History

Appraisal				
Valuation Year	Improvements	Land	Total	
2020	\$1,412,300	\$667,300	\$2,079,600	
2018	\$1,412,300	\$667,300	\$2,079,600	
2016	\$845,400	\$1,105,300	\$1,950,700	

Assessment			
Valuation Year	Improvements	Land	Total
2020	\$988,700	\$467,000	\$1,455,700
2018	\$988,700	\$467,200	\$1,455,900
2016	\$592,000	\$773,700	\$1,365,700

(c) 2021 Vision Government Solutions, Inc. All rights reserved.



Property ID	027/023-0000
Location	1363 BOSTON POST RD
Owner	WILCOX FAMILY LLC



MAP FOR REFERENCE ONLY NOT A LEGAL DOCUMENT

Town of Old Saybrook, CT makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated 8/30/2021 Data updated 2021 Print map scale is approximate. Critical layout or measurement activities should not be done using this resource.

Exhibit C

Construction Drawings

<section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header>					
<section-header><section-header></section-header></section-header>			SITE INF	ORMATION	
<section-header><section-header><section-header><section-header><section-header><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></section-header></section-header></section-header></section-header></section-header>			PROPERTY OWNER: ADDRESS:	WILCOX FAMILY LLC 1363 BOSTON POST RD OLD SAYBROOK, CT 06475	A
<section-header><section-header><section-header><section-header><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></section-header></section-header></section-header></section-header>			TOWER TYPE:	MONOPOLE	
<section-header><section-header><section-header></section-header></section-header></section-header>			TOWER CO SITE ID:	CT-1263	т
<section-header><section-header> windersex windersex bit Wirders LLC. SITE JUD Bit Wirders LLC. SITE ADDRESS Bit Wirders LLC. SITE ADDRESS Concentrum concentration of the second second</section-header></section-header>		SCOPE OF WORK	TOWER APP NUMBER:	N/A	
<section-header></section-header>	•	THIS IS NOT AN ALL INCLUSIVE LIST. CONTRACTOR SHALL UTILIZE SPECIFIED EQUIPMENT PART OR ENGINEER	COUNTY:	OLD SAYBROOK	
<text><text><text><text><text><text></text></text></text></text></text></text>	WIREIESS	THE PROJECT GENERALLY CONTRACTOR SHALL VERILY ALL NEEDED EQUIPMENT TO PROVIDE A FUNCTIONAL STE. THE PROJECT GENERALLY CONSISTS OF THE FOLLOWING:	LATITUDE (NAD 83):	41°17'22.91" N 41.289697 N	
<text><text><text><section-header></section-header></text></text></text>		INSTALL (3) PROPOSED PANEL ANTENNAS (1 PER SECTOR) INSTALL (3) PROPOSED T-ARMS INSTALL PROPOSED T-ARMS INSTALL PROPOSED INTERPOSED	LONGITUDE (NAD 83):	-72° 24' 21.77" W -72.406047 W	
<section-header></section-header>	DISH Wireless L.L.C. SITE ID:	INSTALL (6) PROPOSED RRUs (2 PER SECTOR) INSTALL (1) PROPOSED OVER VOLTAGE PROTECTION DEVICE (OVP)	ZONING JURISDICTION:	CONNECTICUT SITING COUNCIL	s
<section-header></section-header>	BOBDL00113A	GROUND SCOPE OF WORK:	ZONING DISTRICT:	OLD SAYBROOK	0
<section-header></section-header>		INSTALL (1) PROPOSED METAL PLATFORM INSTALL (1) PROPOSED DE BRIDGE INSTALL (1) PROPOSED PPC CABINET	PARCEL NUMBER:	027–023	
<section-header></section-header>	DISH Wireless L.L.C. SITE ADDRESS:	INSTALL (1) PROPOSED EQUIPMENT CABINET INSTALL (1) PROPOSED POWER CONDUIT INSTALL (1) PROPOSED TELCO CONDUIT	OCCUPANCY GROUP:	U	R
Superson of the set of the se	1363 BOSTON POST RD	INSTALL (1) PROPOSED TELCO-FIBER BOX INSTALL (1) PROPOSED GPS UNIT INSTALL (1) PROPOSED SAFETY SWITCH (IF REQUIRED)	CONSTRUCTION TYPE:	V-B	
	OLD SAYBBOOK CT 06475	INSTALL (1) PROPOSED CIENA BOX (IF REQUIRED) INSTALL (1) PROPOSED METER SOCKET	POWER COMPANY:	EVERSOURCE	
			TELEPHONE COMPANY:	AT&T	
	CONNECTICUT CODE COMPLIANCE	SITE PHOTO		DIREC	TIC
	THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENTS. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES: <u>CODE TYPE</u> <u>CODE</u> BUILDING 2018 CT STATE BUILDING CODE/2015 IBC W/ CT AMENDMENTS MECHANICAL 2018 CT STATE BUILDING CODE/2017 IMC W/ CT AMENDMENTS ELECTRICAL 2018 CT STATE BUILDING CODE/2017 NEC W/ CT AMENDMENTS		HEAD NORTHWEST ON C WINTHROP RD, TURN RI STEVENSTOWN RD, TAKE AT EXIT 66, HEAD RIGH POINTS, TURN RIGHT OF POINTS, TURN LEFT ON ARRIVE AT, 1363 BOST	CHESTER AIRPORT TOWARD CT-14 GHT ONTO CT-80 / CT-145 / THE RAMP ON THE LEFT FOR T ON THE RAMP FOR CT-166 T TIO CT-166 / SPENCER PLAIN TO CT-166 / SPENCER PLAIN TO US-1 N / BOSTON POST RE ON POST RD, OLD SAYBROOK, C	45 / WINTI I-95 FOWAF RD T), TU T 06
SHEET NO. SHEET TITLE 1-1 TITLE BEET A-2 DEUMISMI, MARDIS SKEDLE A-3 DEUMISMI, MARDIS SKEDLE A-4 DEUMISMI, MARDIS SKEDLE A-5 DEUMISMI, MARDIS SKEDLE A-6 DEUMISMI, MARDIS SKEDLE A-7 DEUMISMI, MARDIS SKEDLE A-6 DEUMISMI, MARDIS SKEDLE A-7 DEUMISMI, MARDIS SKEDLE A-7 DEUMISMI, MARDIS SKEDLE A-7 DEUMISMI, MARDIS SKEDLE A-7 DEUMISMI, DEALS A-7 DEUMISMI, DEALS A-7 DEUMISMI, MARDIS SKEDLE A-7 DEUMISMI, DEALS B-7 DEUMISMI, DEALS B-7 OFFICIAL DEALS B-7 FUNISMING DEALS B-7 FUNISMING DEALS B-7 FUNISMING DEALS B-7 FUNISMING DEALS <td< th=""><th>SHEET INDEX</th><th></th><th></th><th>VICINIT</th><th>ΓYΙ</th></td<>	SHEET INDEX			VICINIT	ΓYΙ
1 THE SHET A-1 OVERALIANDE DILARGED SITE PLAN A-2 ELEMANDRA, MATURA SCHEDULLE A-3 EOUPHANT DETAILS A-4 EOUPHANT DETAILS A-5 EOUPHANT DETAILS A-6 EOUPHANT DETAILS A-7 ELECTRONA, IPPENDS E-1 ELECTRONA, IPPENDS E-2 ELECTRONA, IPPENDS E-3 ELECTRONA, IPPENDS E-4 GROURING DETAILS C-2 GROURING DETAILS G-3 GROURING DETAILS G-4 GROURING DETAILS G-4 GROURING DETAILS G-5 GROURING DETAILS G-6 GROURING DETAILS G-7 GROURING DETAILS G-8 GROURING DETAILS G-1 IDECRIVAL INPENDING UILDETWONTIGHT MUNCEPTOLOGNING GROURING DETAILS FULLIMENT NOTTIG GROURING DETAILS FULLIMENT NOTTIG G-2 GROURING DETAILS GROURING DETAILS FULLIMENT NOTTIG GROURING DETAILS FULLIMENT NOTTIG G-4 DECRIVAL NOTTIS <th>SHEET NO. SHEET TITLE</th> <th></th> <th></th> <th></th> <th></th>	SHEET NO. SHEET TITLE				
A-1 OVERALL AND DURARED STR. PLM A-2 ELGUNDA, MINUMA LAVOUR AND SORDULE A-3 EQUENTIAN TRAINED AND H-TRANK DETAILS A-4 EQUENTIAN TRAINED AND H-TRANK DETAILS A-6 EQUENTIAN TRAINED AND NOTES E-1 ELGETROL ONE-UNE, FAULT CLCS & PANEL SCHEDULE E-1 ELGETROL ONE-UNE, FAULT CLCS & PANEL SCHEDULE G-1 GRUNANNO ETAILS G-3 GRUNANNO ETAILS G-3 GRUNANNO ETAILS G-5 GRUNANNO ETAILS G-7 GRUNANNO ETAILS GRUNANNO ETAILS GENERAL NOTES GRUNANNO ETAILS ETAILS	T-1 TITLE SHEET				
A-3 EQUIPENT PLATFORM AND H-FRAME DETAILS A-4 EQUIPENT DETAILS A-5 EQUIPENT DETAILS C-1 ELECTIFICAL/PREE ROUTE PLAN AND NOTES C-2 CADITION DETAILS C-3 ELECTIFICAL/PREE ROUTE PLAN AND NOTES C-3 ELECTIFICAL/PREE ROUTE AND NOTES C-2 GROUNEND ETAILS G-1 GROUNEND ETAILS G-1 GROUNEND ETAILS G-2 GROUNEND ETAILS G-3 GROUNEND ETAILS GH-1 LEGEDRIA ADD ABBREATIONS GH-1 ECOLOR ADD ABBREATIONS GH-2 GROUNEND ETAILS GENERAL NOTES DLI 2 RORAD AND ABBREATIONS GH-4 GENERAL NOTES GENERAL NOTES THE JOS	A-1 OVERALL AND ENLARGED SITE PLAN A-2 ELEVATION, ANTENNA LAYOUT AND SCHEDULE				
A-4 EQUIPMENT DETAILS A-5 EQUIPMENT DETAILS E-1 ELECTRORU/FIBER POLICE PLAN AND NOTES E-2 ELECTRORU/FIBER POLICE PLAN AND NOTES E-3 ELECTRORU/FIBER POLICE G-1 OROURDING PLANS AND NOTES G-2 GROUNDING PLANS AND NOTES G-2 GROUNDING PLANS AND NOTES G-3 GROUNDING DETAILS G-1 OROURDING DETAILS G-3 GROUNDING DETAILS G-1 OROURDING DETAILS G-3 GROUNDING DETAILS G-4 GROUNDING DETAILS G-5 GROUNDING DETAILS G-1 OROURDING DETAILS GROUNDING DETAILS Example GROUNDING NOTES Example GROUNDING NOTES Example GROUNDING NOTES Example GN-4 GRORING NOTES <t< th=""><th>A-3 EQUIPMENT PLATFORM AND H-FRAME DETAILS</th><th></th><th>17</th><th></th><th></th></t<>	A-3 EQUIPMENT PLATFORM AND H-FRAME DETAILS		17		
A-6 E0UMENT DETAILS E-1 ELECTRICAL/FIBER ROUTE PLAN AND NOTES E-3 ELECTRICAL ONE-LINE, FAULT CALCS & PANEL SCHEDULE G-1 GROUNDING PLANS AND NOTES G-2 GROUNDING DETAILS G-3 GROUNDING DETAILS GROUNDING DETAILS WWX.EDFUNCTION GN-1 LECEND AND ABBREVATIONS GN-3 GENERAL NOTES GN-4 GENERAL NOTES GENERAL NOTES Intraviolation water worth water of the state of the stat	A-4 EQUIPMENT DETAILS A-5 EQUIPMENT DETAILS		~	CubeSmart Sol	If Sto
E-1 ELECTRICA//FIBER ROUTE PLAN EN NOTES E-3 ELECTRICAL ORF-LINE, FAULT CALCS & PAREL SCHEDULE G-1 GROUNDING PLANS AND NOTES G-2 GROUNDING PLANS AND NOTES G-3 GROUNDING PLANS AND NOTES G-4 GROUNDING PLANS AND NOTES G-7 RF-1 MF-2 RF PLIMBING DUAGRAM GN-1 LEGEND AND ABBREVATIONS GN-2 GENERAL NOTES GN-4 GENERAL NOTES GN-4 GENERAL NOTES GN-4 GENERAL NOTES GN-4 GENERAL NOTES Image: Control of the stress of	A-6 EQUIPMENT DETAILS			Gubesman ser	1 310
E-3 LECORROL ONE-LINE, FAULT CALOS & PANEL SCHEDULE 0-1 GROUNDING DETAILS 0-2 GROUNDING DETAILS 0-3 GROUNDING DETAILS 0-1 INFORME DATA SAND NOTES 0-2 GROUNDING DETAILS 0-3 GROUNDING DETAILS 0-1 LEGEND AND ABBREVATIONS 0-1 LEGEND AND ABBREVATIONS 0N-2 GRONEAL NOTES 0N-2 GRONEAL NOTES 0N-2 GRONEAL NOTES 0N-3 GENERAL NOTES 0N-4 GENERAL NOTES <th>E-1 ELECTRICAL/FIBER ROUTE PLAN AND NOTES E-2 ELECTRICAL DETAILS</th> <th></th> <th></th> <th></th> <th></th>	E-1 ELECTRICAL/FIBER ROUTE PLAN AND NOTES E-2 ELECTRICAL DETAILS				
G-1 GROUNDING DETAILS G-3 GROUNDING DETAILS N-1 RF - ABLE COLOR CODE RF-2 RF PLUMBING DIAGRAM ON-1 LEGEND AND ABBREVATIONS GN-3 GENERAL NOTES GN-4 GENERAL NOTES GN-4 GENERAL NOTES GN-4 GENERAL NOTES GN-4 GENERAL NOTES Image: Color Code The facility is unnavned and not for Rhuman magnation, a technican will visit the site As required and no commercial is required and n	E-3 ELECTRICAL ONE-LINE, FAULT CALCS & PANEL SCHEDULE	UNDERGROUND SERVICE ALERT CBYD 811			
GHOUNDING DETAILS WWW.CBYD.COM RF-1 RF cABLE COLOR CODE RF-2 RF PLUMBING DAGRAM GN-1 LEGEND AND ABBREVATIONS GN-3 GENERAL NOTES GN-3 GENERAL NOTES GN-4 GENERAL NOTES GN-4 GENERAL NOTES DIMUMENTER MAINTERANCE. THE PROJECT MILL NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED ON TO COMMERCIAL DISTURBANCE OR EFFECT ON DISTURBANCE ON DISTURBANCE OR EFFECT ON DISTURBANCE OR EFFECT ON DISTURBANCE ON DISTURBANCE OR EFFECT ON DISTURBANCE OR EFFECT ON DISTURBANCE OR EFFECT ON DISTURBANCE ON DISTURBANCE OR EFFECT ON DISTURBANCE ON DISTURBANCE ON DISTURBANCE OR EFFECT ON DISTURBAN	G-1 GROUNDING PETALS G-2 GROUNDING DETALS	UTILITY NOTIFICATION CENTER OF CONNECTICUT (800) 922-4455	SITE	LOCATION	
NPT-1 NP CABLE COLUX COUL RF-2 RF PLUMBING DIAGRAM GN-1 LEGEND AND ABBREVATIONS GN-2 GENERAL NOTES GN-3 GENERAL NOTES GN-4 GENERAL NOTES GN-4 GENERAL NOTES Implementation of the product will water, or trash disposal is required and no commercial signade is property all plans, existing dimensions, and conditions on the job site, and shall immediately notify the envince of any discrepancies before proceeding with the work.		CALL 2 WORKING DAYS UTILITY NOTIFICATION PRIOR TO CONSTRUCTION			
ON-1 LEGEND AND ABBREVIATIONS ON-2 GENERAL NOTES ON-3 GENERAL NOTES ON-4 GENERAL NOTES ON-4 GENERAL NOTES Image: Internation of the state of the	RF-1 RF CABLE COLOR CODE RF-2 RF PLUMBING DIAGRAM			Dongweck	Eng
GN-2 GENERAL NOTES GN-3 GENERAL NOTES GN-4 GENERAL NOTES DRAINAGE. NO SUITINE MAINTED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED AND NO COMMERCIAL DRAINAGE. SUERAL NOTES Image: International contractor Image: International contendecome Image: Inter	GN-1 LEGEND AND ABBREVIATIONS	GENERAL NOTES		Electrical Delivery	Who
ON Y ORACE IN PROPOSED. SIGNAGE IS PROPOSED. Image: Intervention <	GN-2 GENERAL NOTES GN-4 GENERAL NOTES	THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION, A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE. NO SANITARY SERVER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL		Authentic	Tequ
11"x17" PLOT WILL BE HALF SCALE UNLESS OTHERWISE NOTED 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.		SIGNAGE IS PROPOSED.	the second	a leon	E
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.		11"x17" PLOT WILL BE HALF SCALE UNLESS OTHERWISE NOTED	he Tea Ket Takeout - Deliv Pier Rhu	ttle	
		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	(142) hotel	/

	PROJE	ECT DIRECTORY	
	APPLICANT:	DISH Wireless L.L.C. 5701 SOUTH SANTA FE DRIVE LITTLETON, CO 80120	
	TOWER OWNER:	OCTAGON TOWERS LLC 57 E Washington Street Chagrin Falls, OH 44022	5701 SOUTH SANTA FE DRIVE LITTLETON, CO 80120
	SITE DESIGNER:	INFINIGY 1033 WATERVLIET SHAKER RD ALBANY, NY 12205 (518) 690-0790	
	SITE ACQUISITION:	JEANNE CONTTRELL (203) 927-4317 ANAGER: JAVIER SOTO	Turnkey Wireless Development
	RF ENGINEER:	(617) 839–6514 BOSSENER CHARLES (978) 855–5870	FROM ZERO TO INFINIGY the solutions are endless 2500 W. HIGGINS RD. SUITE 500 HOFFMAN ESTATES, IL 60169 PHONE: 847-648-4068 FAX: 518-690-0793 WWW.INFINIGY.COM
	TIONS		
4 	AIRPORT: 5 / WINTHROP RD, WINTHROP RD, TURN- 95 NORTH AND HE DWARD LYNDE POINT RD TOWARD LYNDE I 1 TURN LEFT ONTO 1 06475.	TURN LEFT ONTO CT-145 / N LEFT ONTO CT-145 / AD TOWARD NEW LONDON F / OLD SAYBROOK / SHORE POINT / OLD SAYBROOK / SHORE TOMPKINS RD	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.







NOTES	
NOTES 1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. 2. CONTRACTOR SHALL MAINTAIN A 10'-0" MINIMUM SEPARATION BETWEEN THE PROPOSED GPS UNIT, TRANSMITTING ANTENNAS AND EXISTING GPS UNITS. 3. ANTENNAS AND MOUNTS OMITTED FOR CLARITY.	dësh wireless.
	5701 SOUTH SANTA FE DRIVE LITTLETON, CO 80120
12" 6" 0 1' 2' 3' 4' 5' 1/2"=1'-0" 2	IT IS A VIOLATION OF LAW FOR ANY PERSON,
LOCATION 12'-0" PY EASEMENT OAD	OF A LICENSED PROFESSIONAL ENGINEER, INTO ALTER THIS DOCUMENT. DRAWN BY: CHECKED BY: APPROVED BY: RCD SS CJW RFDS REV #: 2 CONSTRUCTION DOCUMENTS SUBMITTALS REV DATE DESCRIPTION 0 09/23/21 SUBMITTALS REV DATE DESCRIPTION 0 A& PROJECT INUMBER 1197-F0001-C DISH Wireless L.L.C. PROJECT INFORMATION BOBDL00113A BOBDL00113A 1363 BOSTON POST RD OLE TITLE OVERALL AND ENLARGED SHEET TITLE OVERALL AND ENLARGED SHEET NUMBER
200' 100' 0 200' 400'	Δ-1 Ι







ROSENBERGER GPSGLONASS-36-N-S					_ <u>→</u> [] <u>1.75″ø</u>
DIMENSION (DIA x H) 69mm x 98.5mm WEIGHT (WITH ACCESSORIES) 515.74g CONNECTOR N-FEMALE FREQUENCY RANGE 1550 MHz at 1610 5MHz		MINIMUM OF 75% OR 270° IN ANY DIRECTION GPS			
GPS UNIT	SIDE GPS UNIT				CU12PSM6P4XXX (4 AWG CONDUCTORS)
GROUNDING KIT MOUNTING BRACKET		BE BELOW 10"			
					CU12PSM9 (8 AWG CONE
GPS ANTENNA DETAIL	no scale 1	GPS MINIMUM SKY VIEW REQUIREMENTS	NO SCALE	2	CABLES UNLIMITED HYBRID MINIMUM BEND RADIU
NOT USED	NO SCALE 4	NOT USED	NO SCALE	5	NOT USED
NOT USED	NO SCALE 7	NOT USED	NO SCALE	8	NOT USED







	2



30'	20'	10'	0	30'	60'		
				1"=30'		3	L





<u>NOTES</u>			—			
URRENT CARRYING CONDUCTORS 80% PER 2014/17 NEC TABLE 3 9 FOR UL1015 WIRE.	EACH, SHALL A 10.15(B)(3)(a)	PPLY OR				
15A-20A/1P BREAKER: 0.8 x 3 25A-30A/2P BREAKER: 0.8 x 4 35A-40A/2P BREAKER: 0.8 x 5 45A-60A/2P BREAKER: 0.8 x 7	0A = 24.0A 0A = 32.0A 5A = 44.0A 5A = 60.0A					
PER NEC CHAPTER 9, TABLE 4, 22 SQ. IN AREA 13 SQ. IN AREA 16 SQ. IN AREA 07 SQ. IN AREA	ARTICLE 358.			5701 SO LITTLI	UTH SANTA F ETON, CO 80	E DRIVE
CONDUCTORS (1 CONDUIT): USIN	NG THWN-2, CU	•	1			
$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	IN IN <ground< td=""><td></td><td>(((</td><td>!)))</td><td></td><td></td></ground<>		(((!)))		
E TO HANDLE THE TOTAL OF (3) INDICATED ABOVE.	WIRES,		Γ	ISS	NOR SITE S	THE ST
NDUITS): USING UL1015, CU.	IN				Turnkey Wi	reless Development
$\frac{1}{200} \frac{1}{300} \frac{1}$	IN <bare gro<="" td=""><td>UND</td><td>FR</td><td>NH ROM ZE</td><td>INIC</td><td>フ丫番 NFINIGY</td></bare>	UND	FR	NH ROM ZE	INIC	フ丫番 NFINIGY
NTE TO HANDLE THE TOTAL OF (5 INDICATED ABOVE. DNDUIT): USING THWN. CU.	5) WIRES,		рно	2500 W. H HOFFM DNE: 847-64 WY	he solutions (Iggins rd. sui an estates, il 8-4068 fax: vw.infinigy.co	are endless TE 500 60169 518-690-0793 M
0.2679 SQ. IN X 3 = 0.8037 SG). IN					
0.0507 SQ. IN X 1 = 0.0507 SQ = 0.8544 SC	A. IN <ground< td=""><td></td><td></td><td></td><td></td><td></td></ground<>					
ADEQUATE TO HANDLE THE TOTA INDICATED ABOVE.	L OF (4) WIRES	5,				
	NO SCALE	1				
			IT UNLE	IS A VIOLATIO ESS THEY AR OF A LICENSI TO AL	ON OF LAW FOR E ACTING UNDER ED PROFESSIONA TER THIS DOCUM	ANY PERSON, THE DIRECTION L ENGINEER, IENT.
			DRA	WN BY: C	HECKED BY:	APPROVED BY:
				RCD	SS	CJW
			RFD	s rev #:	2	
				CON DO	STRUCI CUMEN	TION TS
			REV	DATE	DESCRIPTIO	N
			0	09/23/21	ISSUED FOR PI	ERMIT
			2	01/28/22	REVISED PER C	COMMENTS
				A&E I	PROJECT NUI	MBER
				119	7-F0001	-c
				DISH PROJI	I Wireless L.I ECT INFORMA	C. TION
				BO	BDL0011	3A
			0LI	363 BO D SAYE	DSTON P BROOK, C	OST RD T 06475
					SHEET TITLE	
			C/	ALCS &	PANEL S	CHEDULE
				Sł	HEET NUMBEI	२
					E-3	
	NO SCALE	3				





	 EXOTHERMIC WELD (2) TWO, #2 AWG BARE TINNED SOLID COPPER CONDUCTORS TO GF BAR. ROUTE CONDUCTORS TO BURIED GROUND RING AND PROVIDE PARALLEL EXOTHERN WELD. ALL EXTERIOR GROUNDING HARDWARE SHALL BE STAINLESS STEEL 3/8" DIAMETER OR 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 CON DOWN TO GROUNDING BUS. NUT & WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUND BAR AND BC 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 AN REQUIRED. ENSURE THE WIRE INSULATION TERMINATION IS WITHIN 1/8" OF THE BARREL (NO SHIN) 	Round Mic S With IPOUND IDUCTOR DLTED ON TOR. S ERS).		EXTERNAL TOOTHED 3/8" DIA x1 1/2" S/S NUT S/S LOCK WASHER S/S FLAT WASHER S/S FLAT UI 1/6" MINIMUM SPACING	ICTOR INSULATIO		EXTERNAL TOOTHED S/S DIA x1 1/2" S/S NUT S/S LOCK WASHER S/S FLAT WASHER S/S FLAT WASHER S/S FLAT MASHER 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 COPPER BUS BAR COPPER BUS BAR COPPER BUS BAR	typ) Washer (typ) Asher (typ) Washer (typ) Yp)					
ľ	LUG DETAIL	NO SCALE	4		NO SCALE	5	<u>NOT_USED</u>
	NOT USED	NO SCALE	7	NOT_USED	NO SCALE	8	NOT USED



RF JUMPER COLOR CODING	3/4" TAPE WIDTHS WITH 3/4" SPACING		
LOW–BAND RRH – (600MHz N71 BASEBAND) + (850MHz N26 BAND) + (700MHz N29 BAND) – OPTIONAL PER MARKET	ALPHA RRH BETA RRH PORT 1 PORT 2 PORT 3 PORT 4 + SLANT + SLANT + SLANT + SLANT + SLANT RED RED RED RED RED RED		LOW BANDS (N71-N28) OPTIONAL - (N29) ORANGE
ADD FREQUENCY COLOR TO SECTOR BAND (CBRS WILL USE YELLOW BANDS)	ORANGE ORANGE RED RED ORANGE ORANGE BLUE BLUE ORANGE ORANGE GREEN GREEN WHITE (1) PORT ORANGE ORANGE <t< td=""><td></td><td>CBRS TECH (3 GHz) YELLOW</td></t<>		CBRS TECH (3 GHz) YELLOW
MID-BAND RRH – (AWS BANDS N66+N70)	RED RED RED RED BLUE BLUE BLUE BLUE GREEN GREEN GREEN GREEN PURPLE PURPLE RED RED PURPLE PURPLE BLUE BLUE BLUE BLUE GREEN GREEN GREEN GREEN		ALPHA SECTOR BETA SECTOR
ADD FREQUENCY COLOR TO SECTOR BAND (CBRS WILL USE YELLOW BANDS)	WHITE (1) PORT PURPLE PURPLE PURPLE PURPLE WHITE (1) PORT PURPLE PURPLE PURPLE WHITE (1) PORT		COLOR IDENTIFIER
HYBRID/DISCREET CABLES	EXAMPLE 1 EXAMPLE 2		
INCLUDE SECTOR BANDS BEING SUPPORTED AM	RED RED BLUE BLUE		
EXAMPLE 1 – HYBRID, OR DISCREET, SUPPORTS ALL SECTORS, BOTH LOW-BANDS AND MID-BANDS	GREEN GREEN		
EXAMPLE 2 - HYBRID, OR DISCREET, SUPPORTS CBRS ONLY, ALL SECTORS	ORANGE YELLOW PURPLE		
HYBRID/DISCREET CABLES	LOW BAND RRH HIGH BAND RRH LOW BAND RRH LOW BAND RRH LOW BAND RRH LOW BAND RRH		
LOW-BAND RRH FIBER CABLES HAVE SECTOR STRIPE ONLY	RED BLUE BLUE GREEN PURPLE PURPLE PURPLE		
POWER CABLES TO RRHs	LOW BAND RRH HIGH BAND RRH LOW BAND RRH LOW BAND RRH LOW BAND RRH LOW BAND RRH		
LOW-BAND RRH POWER CABLES HAVE SECTOR STRIPE ONLY	RED BLUE BLUE GREEN GREEN		
	PURPLE PURPLE PURPLE		NOT_USED
RET MOTORS AT ANTENNAS	PORT 1/ PORT 1/ ANTENNA 1 ANTENNA 1 "IN" "IN" "IN"		
	RED BLUE GREEN		
MICROWAVE RADIO LINKS	PRIMARY SECONDARY		
LINKS WILL HAVE A 1.5-2 INCH WHITE WRAP WITH THE AZIMUTH COLOR OVERLAPPING IN THE MIDDLE. ADD ADDITIONAL SECTOR COLOR BANDS FOR EACH ADDITIONAL MW RADIO	WHITE WHITE RED RED		
MICROWAVE CABINETS WILL REQUIRE P-TOUCH LABELS INSIDE THE CABINET TO IDENTIFY THE LOCAL AND REMOTE SITE ID'S.	WHITE WHITE RED WHITE		
	RF CABLE COLOR CODES	NO SCALE 1	NOT USED

AWS (N65+N70+H-BLOCK) PURPLE NEGATIVE SLANT PORT ON ANTRRH WHITE	SECTOR	_	BACKET OF CONTRACT OF CONTRACT.
		2	IT IS A VIOLATION OF LAW FOR ANY PERSON, WWW.INFINIGY.COM UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT. DRAWN BY: CHECKED BY: APPROVED BY: RCD RCD SS CONSTRUCTION
	NO SCALE	3	
			REV DATE DESCRIPTION 0 09/23/21 ISSUED FOR PERMIT 1 10/16/21 REVISED PER COMMENTS 2 01/28/22 REVISED PER COMMENTS A&E PROJECT NUMBER 1197-F0001-C DISH Wireless L.L.C. PROJECT INFORMATION BOBDL00113A 1363 BOSTON POST RD OLD SAYBROOK, CT 06475 SHEET TITLE RF CABLE COLOR CODES SHEET NUMBER RF-1
	NO SCALE	4	



EXOTHERMIC CONNECTION	•
MECHANICAL CONNECTION	•
BUSS BAR INSULATOR	A
CHEMICAL ELECTROLYTIC GROUNDING SYSTEM	•
TEST CHEMICAL ELECTROLYTIC GROUNDING SYSTE	EM 😝T
EXOTHERMIC WITH INSPECTION SLEEVE	
GROUNDING BAR	
GROUND ROD	–●
TEST GROUND ROD WITH INSPECTION SLEEVE	ı│ <mark>├─</mark> ●⊤
SINGLE POLE SWITCH	\$
DUPLEX RECEPTACLE	\oplus
DUPLEX GFCI RECEPTACLE	(TP)
FLUORESCENT LIGHTING FIXTURE (2) TWO LAMPS 48-T8	
SMOKE DETECTION (DC)	
EMERGENCY LIGHTING (DC)	
Security light w/photocell lithonia alxw Led-1-25A400/51K-SR4-120-pe-ddbtxd	
CHAIN LINK FENCE	x x x x
WOOD/WROUGHT IRON FENCE	-000
WALL STRUCTURE	
LEASE AREA	
PROPERTY LINE (PL)	
SETBACKS	
ICE BRIDGE	
CABLE TRAY	
WATER LINE	w w w w w
UNDERGROUND POWER	UGP UGP UGP UGP
UNDERGROUND TELCO	UGT UGT UGT UGT
OVERHEAD POWER	OHP OHP OHP
OVERHEAD TELCO	ОНТ ОНТ ОНТ
UNDERGROUND TELCO/POWER	UGT/P UGT/P UGT/P
ABOVE GROUND POWER	AGP AGP AGP AGP
ABOVE GROUND TELCO	AGT AGT AGT AGT
ABOVE GROUND TELCO/POWER	AGT/P AGT/P AGT/P
WORKPOINT	
SECTION REFERENCE	W.P.
DETAIL REFERENCE	XX X-X

AB ABV AC	ANCHOR BOLT	IN	INCH
ABV AC			
AC	ABOVE	INT	INTERI
	ALTERNATING CURRENT	LB(S)	POUN
ADDL	ADDITIONAL	LF	LINEAR
AFF	ABOVE FINISHED FLOOR	LTE	LONG
AFG	ABOVE FINISHED GRADE	MAS	MASON
AGL	ABOVE GROUND LEVEL	MAX	MAXIM
AIC	AMPERAGE INTERRUPTION CAPACITY	MB	MACHI
		MECH	MECHA
		MFR	MANUF
ADDDOV		MGB	MASTE
APPRUX		MIN	MINIMU
	AUTOMATIC TRANSFER SWITCH	MISC	MISCEI
ANG		MIL	METAL
AWG	AMERICAN WIRE GAUGE	MIS	MANUA
BLDC		MW	MICRO
BLK	BLOCK	NEC	NATION
BLKG	BLOCKING	NM	NEWIC
BM	RFAM	NO.	
BTC	BARE TINNED COPPER CONDUCTOR	#	NUMBE
BOF	BOTTOM OF FOOTING	NIS	
CAB	CABINET	00	
CANT	CANTILEVERED	OBNC	ODENI
CHG	CHARGING	UPNG D/O	OPENI
CLG	CEILING	P/C	PRECA
CLR	CLEAR	PCS	PERSC
COL	COLUMN	PCU	PRIMA
СОММ	COMMON	PRC	PRIMA
CONC	CONCRETE	PP	POLAR
CONSTR	CONSTRUCTION	PSF	POUNL
DBL	DOUBLE	P31	POUNL
DC	DIRECT CURRENT		PRESS
DEPT	DEPARTMENT		OUANT
DF	DOUGLAS FIR	BAD	
DIA	DIAMETER	RECT	PECTIE
	DIAGONAL	RECI	DEEED
DIAG			
DIAG DIM	DIMENSION	REINE	REINE
DIAG DIM DWG	DIMENSION DRAWING	REINF	REINFO
DIAG DIM DWG DWL	DIMENSION DRAWING DOWEL	REINF REQ'D	REINFO
diag Dim Dwg Dwl Ea	DIMENSION DRAWING DOWEL EACH	REINF REQ'D RET	REINFO REQUI
DIAG DIM DWG DWL EA EC	DIMENSION DRAWING DOWEL EACH ELECTRICAL CONDUCTOR	REINF REQ'D RET RF	REINFO REQUII REMOT RADIO BICID
DIAG DIM DWG DWL EA EC EL.	DIMENSION DRAWING DOWEL EACH ELECTRICAL CONDUCTOR ELEVATION	REINF REQ'D RET RF RMC BBH	REINFO REQUII REMOT RADIO RIGID
Diag Dim Dwg Dwl EA EC EL. ELEC	DIMENSION DRAWING DOWEL EACH ELECTRICAL CONDUCTOR ELEVATION ELECTRICAL	REINF REQ'D RET RF RMC RRH BBU	REINFO REQUII REMOT RADIO RIGID REMOT
DIAG DIM DWG DWL EA EC EL. ELEC EMT	DIMENSION DRAWING DOWEL EACH ELECTRICAL CONDUCTOR ELEVATION ELECTRICAL ELECTRICAL METALLIC TUBING	REINF REQ'D RET RF RMC RRH RRU PWY	REINFO REQUII REMOT RADIO RIGID REMOT REMOT
DIAG DIM DWG DWL EA EC EL. ELEC EMT ENG	DIMENSION DRAWING DOWEL EACH ELECTRICAL CONDUCTOR ELECTRICAL ELECTRICAL ELECTRICAL METALLIC TUBING ENGINEER	REINF REQ'D RET RF RMC RRH RRU RWY SCH	REINFO REQUII REMOT RADIO RIGID REMOT REMOT RACEW
DIAG DIM DWG DWL EA EC EL. ELEC EMT ENG EQ	DIMENSION DRAWING DOWEL EACH ELECTRICAL CONDUCTOR ELECTRICAL ELECTRICAL ELECTRICAL METALLIC TUBING ENGINEER EQUAL	REINF REQYD RET RF RMC RRH RRU RWY SCH SVT	REINFO REQUII REMOT RADIO RIGID REMOT REMOT RACEW SCHED
DIAG DIM DWG DWL EA EC EL. ELEC EMT ENG EQ EXP	DIMENSION DRAWING DOWEL EACH ELECTRICAL CONDUCTOR ELECTRICAL ELECTRICAL ELECTRICAL METALLIC TUBING ENGINEER EQUAL EXPANSION	REINF REQ*D RET RF RMC RRH RRU RWY SCH SHT SIAD	REINFO REQUII REMOT RADIO RIGID REMOT REMOT RACEW SCHEE SHEET SMART
DIAG DIM DWG DWL EA EC EL. ELEC EMT ENG EQ EXP EXT	DIMENSION DRAWING DOWEL EACH ELECTRICAL CONDUCTOR ELEVATION ELECTRICAL ELECTRICAL ELECTRICAL ENGINEER EQUAL EXPANSION EXTERIOR	REINF REQ'D RET RF RMC RRH RRU RWY SCH SHT SIM	REINF(REQUII REMOT RADIO RIGID REMOT REMOT RACEW SCHED SHEET SMART
DIAG DIM DWG DWL EA EC EL ELEC ELEC EMT ENG EQ EXP EXT EW	DIMENSION DRAWING DOWEL EACH ELECTRICAL CONDUCTOR ELECTRICAL CONDUCTOR ELECTRICAL ELECTRICAL ELECTRICAL METALLIC TUBING ENGINEER EQUAL EXPANSION EXTERIOR EACH WAY	REINF REQ'D RET RF RMC RRH RRU RWY SCH SHT SIAD SIM SPFC	REINF(REQUII REMOT RADIO RIGID REMOT RACEW SCHEE SHEET SMART SIMILA SPECII
DIAG DIM DWG DWL EA EC EL. ELEC EMT ENG EQ EXT EXT EXT FAB	DIMENSION DRAWING DOWEL EACH ELECTRICAL CONDUCTOR ELECATION ELECTRICAL ELECTRICAL ELECTRICAL METALLIC TUBING ENGINEER EQUAL EXPANSION EXTERIOR EACH WAY FABRICATION	REINF REQ'D RET RF RMC RRH RRU RWY SCH SHT SIAD SIM SPEC SQ	REINFC REQUII REMOT RADIO RIGID REMOT REMOT RACEW SCHED SHEET SMART SIMILAI SPECIF
DIAG DIM DWG DWL EA EC EL EL EL EL EN EN EXT EXT EW FAB FF	DIMENSION DRAWING DOWEL EACH ELECTRICAL CONDUCTOR ELECATION ELECTRICAL ELECTRICAL ELECTRICAL METALLIC TUBING ENGINEER EQUAL EXPANSION EXTERIOR EACH WAY FABRICATION FINISH FLOOR	REINF REQ'D RET RF RMC RRH RRU RWY SCH SHT SIM SPEC SQ SS	REINFC REQUII REMOT RADIO RIGID REMOT REMOT RACEW SCHED SHEET SIMILA SPECIF SQUAR STAINI
DIAG DIM DWG DWL EA EC EL EL EL EC EMT ENG EQ EXP EXT EW FAB FF FG	DIMENSION DRAWING DOWEL EACH ELECTRICAL CONDUCTOR ELECATION ELECTRICAL ELECTRICAL ELECTRICAL METALLIC TUBING ENGINEER EQUAL EXPANSION EXTERIOR EXTERIOR EACH WAY FABRICATION FINISH FLOOR FINISH GRADE	REINF REQ*D RET RF RMC RRH RRU RWY SCH SHT SIAD SIM SPEC SQ SS STD	REINFC REQUII REMOT RADIO RIGID REMOT REMOT RACEW SCHED SHEET SMART SIMILA SPECIF SQUAR STAINL
DIAG DIM DWG DWL EA EC EL. ELEC EMT ENG EQP EXT EW FAB FF FG FIF	DIMENSION DRAWING DOWEL EACH ELECTRICAL CONDUCTOR ELECTRICAL CONDUCTOR ELECTRICAL ELECTRICAL METALLIC TUBING ENGINEER EQUAL EXPANSION EXTERIOR EACH WAY FABRICATION FINISH FLOOR FINISH FLOOR FINISH GRADE FACILITY INTERFACE FRAME	REINF REQ'D RET RF RMC RRH RRU RWY SCH SHT SIAD SIM SPEC SQ SS STD STL	REINFC REQUII REMOT RADIO RIGID REMOT REMOT RACEW SCHED SHEET SMART SHEET SMART SHEET SMART SHEET SMART SHEET SMART SHEAT STAINL STAINL
DIAG DIM DWG EA EC EL ELEC EMT ENG EQ EXT ENG EX FAB FF FG FIF FIN	DIMENSION DRAWING DOWEL EACH ELECAL CONDUCTOR ELECARICAL CONDUCTOR ELECARICAL ELECARICAL ELECARICAL ELECARICAL METALLIC TUBING ENGINEER EQUAL EXPANSION EXTERIOR EACH WAY FABRICATION FINISH FLOOR FINISH FLOOR FINISH GRADE FACILITY INTERFACE FRAME FINISH(ED)	REINF REQ'D RET RF RMC RRH RRU RWY SCH SHT SIM SPEC SQ SS STD STL TEMP	REINFC REQUII REMOT RADIO RIGID REMOT REMOT RACEW SCHEET SMART SIMILA SPECIF SQUAR STAINL STAINL STAINL STEEL TEMPC
DIAG DIM DWU EA EC EL ELEC EMT ENG EQ EXP EXT EW FAB FF FG FIF FIN FLR	DIMENSION DRAWING DOWEL EACH ELECATICAL CONDUCTOR ELECATICAL CONDUCTOR ELECATICAL ELECATICAL ELECATICAL METALLIC TUBING ENGINEER EQUAL EXPANSION EXTERIOR EACH WAY FABRICATION FINISH FLOOR FINISH FLOOR FINISH GRADE FACILITY INTERFACE FRAME FINISH(ED) FLOOR	REINF REQYD RET RF RMC RRH RRU RWY SCH SHT SIM SPEC SQ SS STD STL TEMP THK	REINFC REQUII REMOT RADIO RIGID REMOT REMOT RACEW SCHEET SMART SIMILA SPECIF SQUAR STAINL STAND STAINL STAND TEMPC THICKI
DIAG DIM DWG DWL EA EC EL ELEC EMT ENG EQ EXP EXT EW FAB FF FG FIF FIN FLR FDN	DIMENSION DRAWING DOWEL EACH ELECTRICAL CONDUCTOR ELEVATION ELECTRICAL ELECTRICAL ELECTRICAL METALLIC TUBING ENGINEER EQUAL EXPANSION EXTERIOR EACH WAY FABRICATION FINISH FLOOR FINISH FLOOR FINISH GRADE FACILITY INTERFACE FRAME FINISH(ED) FLOOR FLOOR FOUNDATION	REINF REQ'D RET RF RMC RRH RRU RWY SCH SHT SIAD SIM SPEC SQ SS STD STL TEMP THK TMA	REINFC REQUII REMOT RADIO RIGID REMOT REMOT REMOT SCHED SHEET SMART SIMILA SPECIF SQUAR STAINL STAND STEEL TENCC THICKE
DIAG DIM DWG DWL EA EC EL ELEC EMT ENG EQ EXP EXT EW FAB FF FIN FIN FDN FOC	DIMENSION DRAWING DOWEL EACH ELECTRICAL CONDUCTOR ELEVATION ELECTRICAL ELECTRICAL ELECTRICAL METALLIC TUBING ENGINEER EQUAL EXPANSION EXTERIOR EACH WAY FABRICATION FINISH FLOOR FINISH FLOOR FINISH GRADE FACILITY INTERFACE FRAME FINISH(ED) FLOOR FOUNDATION FACE OF CONCRETE	REINF REQ'D RET RF RMC RRH RRU RWY SCH SHT SIM SPEC SQ SS STD STL TEMP THK TMA TN	REINFC REQUII REMOT RADIO RIGID REMOT REMOT REMOT RACEW SCHED SHEET SMART SHEET SMART SHEET SMART SHEET SMART SHEET STAINL STAND STEEL TEMPC THICKI TOE N
DIAG DIM DWG DWL EA EC EL ELEC EMT EN EQ EXP EXT EW FAB FF FG FIN FLR FDN FOC FOM	DIMENSION DRAWING DOWEL EACH ELECTRICAL CONDUCTOR ELEVATION ELECTRICAL ELECTRICAL ELECTRICAL ELECTRICAL ENGINEER EQUAL EXPANSION EXTERIOR EACH WAY FABRICATION FINISH FLOOR FINISH FLOOR FINISH FLOOR FINISH GRADE FACILITY INTERFACE FRAME FINISH(ED) FLOOR	REINF REQ'D RET RF RMC RRH RRU RWY SCH SHT SIAD SIM SPEC SQ SS STD STL TEMP THK TMA TN TOA	REINFC REQUII REMOT RADIO RIGID REMOT REMOT RACEW SCHED SHEET SMART SHEET SMART SHEET SHEET SHEET SHEET SHEET SHEET STAINL STAND STEEL TEMPC THICKI TOP O TOP O
DIAG DIM DWG DWL EA EC EL ELEC EMT ENG EQ EXT EW FAB FF FG FIN FLR FDN FOC FOM FOS	DIMENSION DRAWING DOWEL EACH ELECTRICAL CONDUCTOR ELECATION ELECTRICAL ELECTRICAL ELECTRICAL ELECTRICAL ELECTRICAL EACH MAY EXPANSION EXTERIOR EACH WAY FABRICATION FINISH FLOOR FINISH FLOOR FINISH FLOOR FINISH GRADE FACILITY INTERFACE FRAME FINISH(ED) FLOOR FOUNDATION FACE OF CONCRETE FACE OF MASONRY FACE OF STUD	REINF REQ'D RET RF RMC RRH RRU RWY SCH SHT SIAD SIM SPEC SQ SS STD STL TEMP THK TMA TN TOA TOC	REINFC REQUII REMOT RADIO RIGID REMOT REMOT RACEW SCHED SHEET SMART SHEET SMART SHEET SMART SHEET SHE SHEET SHEET SHEET SHEET SHE SHE SHE SHE SHE SHE SHE SHE SHE SHE
DIAG DIM DWG DWL EA EC EL ELEC EMT ENG EQ EXT EW FAB FF FG FIN FLR FDN FOC FOM FOS FOW	DIMENSION DRAWING DOWEL EACH ELECTRICAL CONDUCTOR ELECTRICAL CONDUCTOR ELECTRICAL ELECTRICAL ELECTRICAL ELECTRICAL EACH MAY EAGINEER EACH WAY FABRICATION FINISH FLOOR FINISH FLOOR FINISH FLOOR FINISH GRADE FACILITY INTERFACE FRAME FINISH (ED) FLOOR FOUNDATION FACE OF CONCRETE FACE OF STUD FACE OF STUD FACE OF WALL	REINF REQ'D RET RF RMC RRH RRU RWY SCH SHT SIAD SIM SPEC SQ SS STD STL TEMP THK TMA TN TOA TOF	REINFC REQUII REMOT RADIO RIGID REMOT REMOT RACEW SCHED SHEET SMART SIMILA SPECIF SQUAR STAINL STAIN
DIAG DIM DWG EA EC EL ELEC EMT ENG EQ EXT EXT FAB FF FG FIF FIN FLR FDN FOC FOC FOC FOW FS	DIMENSION DRAWING DOWEL EACH ELECTRICAL CONDUCTOR ELECTRICAL CONDUCTOR ELECTRICAL ELECTRICAL ELECTRICAL ELECTRICAL METALLIC TUBING ENGINEER EQUAL EXPANSION EXTERIOR EACH WAY FABRICATION FINISH FLOOR FINISH FLOOR FINISH FLOOR FINISH GRADE FACILITY INTERFACE FRAME FINISH(ED) FLOOR FOUNDATION FACE OF CONCRETE FACE OF MASONRY FACE OF STUD FACE OF STUD FACE OF WALL FINISH SURFACE	REINF REQ'D RET RF RMC RRH RRU RWY SCH SHT SIAD SIM SPEC SQ SS STD STL TEMP THK TMA TN TOA TOC TOF TOP	REINFC REQUII REMOT RADIO RIGID REMOT REMOT REMOT REMOT SCHED SHEET SMART SIMILA SCHED SHEET SMART SIMILA STAINL STAINL STAINL STAINL STAINL STAINL TEMPO THICKI TOWER TOE N TOP O TOP O TOP O
DIAG DIM DWUL EA EC ELL ELEC EMT ENG EQP EXT EW FAB FF FG FIF FIN FLN FOC FOM FS FT	DIMENSION DRAWING DOWEL EACH EACH ELECTRICAL CONDUCTOR ELECTRICAL CONDUCTOR ELECTRICAL ELECTRICAL ELECTRICAL METALLIC TUBING ENGINEER EQUAL EXPANSION EXTERIOR EACH WAY FABRICATION FINISH FLOOR FINISH FLOOR FINISH FLOOR FINISH GRADE FACILITY INTERFACE FRAME FINISH(ED) FLOOR FOUNDATION FACE OF CONCRETE FACE OF MASONRY FACE OF STUD FACE OF STUD FACE OF STUD FACE OF WALL FINISH SURFACE FOOT	REINF REQ'D RET RF RMC RRH RRU RWY SCH SHT SHD SIM SPEC SQ SS STD STL TEMP THK TMA TN TOA TOC TOF TOS	REINFC REQUII REMOT RADIO RIGD REMOT REMOT RACEW SCHED SHEET SMART SIMILA SPECIF SMART SIMILA SPECIF SMART SIMILA STALL TEMPO THICKI TOWER TOP C TOP C TOP C
DIAG DIM DWUL EA EC ELL ELEC EMT ENG EQ EXT EW FAB FF FG FIF FIN FON FOS FOS FT FTG	DIMENSION DRAWING DOWEL EACH ELECTRICAL CONDUCTOR ELECTRICAL CONDUCTOR ELECTRICAL ELECTRICAL ELECTRICAL METALLIC TUBING ENGINEER EQUAL EXPANSION EXTERIOR EACH WAY FABRICATION FINISH FLOOR FINISH FLOOR FINISH FLOOR FINISH GRADE FACILITY INTERFACE FRAME FINISH(ED) FLOOR FOUNDATION FACE OF CONCRETE FACE OF MASONRY FACE OF STUD FACE OF WALL FINISH SURFACE FOOT FOOTING	REINF REQ'D RET RF RMC RRH RRU RWY SCH SIM SPEC SQ SS STD STL TEMP THK TMA TN TOA TOF TOF TOP TOS TOW	REINFC REQUII REMOT RADIO RIGID REMOT REMOT RACEW SCHED SHEET SMART SIMILA SPECIF SMART SIMILA SPECIF SMART SIMILA SPECIF STAND STEEL TEMPC THICKI TOP C TOP C TOP C TOP C TOP C
DIAG DIM DWUL EA EC ELL ELEC EMT ENG EQ EXT ENG EQ EXT FAB FF FG FIF FIN FON FOS FOS FT FTG GA	DIMENSION DRAWING DOWEL EACH ELECTRICAL CONDUCTOR ELECTRICAL CONDUCTOR ELECTRICAL ELECTRICAL ELECTRICAL METALLIC TUBING ENGINEER EQUAL EXPANSION EXTERIOR EACH WAY FABRICATION FINISH FLOOR FINISH FLOOR FINISH FLOOR FINISH GRADE FACILITY INTERFACE FRAME FINISH(ED) FLOOR FOUNDATION FACE OF CONCRETE FACE OF MASONRY FACE OF STUD FACE OF WALL FINISH SURFACE FOOT FOOTING GAUGE	REINF REQ'D RET RF RMC RRH RRU RWY SCH SIM SPEC SQ SS STD STL TEMP THK TN TOA TOF TOF TOP TOS TOW TVSS	REINFC REQUII REMOT RADIO RIGID REMOT REMOT RACEW SCHED SHEET SMART SIMILA SPECIF SMART SIMILA SPECIF SMART STAINL
DIAG DIM DWG DWL EA EC ELL ELEC EMT ENG EQ EXP EXT EW FAB FF FIN FOC FOM FS FT FTG GA GEN	DIMENSION DRAWING DOWEL EACH ELECTRICAL CONDUCTOR ELEVATION ELECTRICAL ELECTRICAL ELECTRICAL METALLIC TUBING ENGINEER EQUAL EXPANSION EXTERIOR EACH WAY FABRICATION FINISH FLOOR FINISH FLOOR FINISH GRADE FACILITY INTERFACE FRAME FINISH(ED) FLOOR FOUNDATION FACE OF CONCRETE FACE OF MASONRY FACE OF STUD FACE OF WALL FINISH SURFACE FOOT FOOTING GAUGE GENERATOR	REINF REQ'D RET RF RMC RRH RRU RWY SCH SIM SPEC SQ SS STD STL TEMP THK TMA TN TOA TOF TOF TOS TOW TVSS TYP	REINFC REQUII REMOT RADIO RIGID REMOT REMOT REMOT REMOT SCHED SHEET SMART SCHED SHEET SMART SHEET SHE
DIAG DIM DWG DWL EA EC ELL ELEC EMT ENG EQ EXP EXT EW FAB FF FG FIN FOC FOM FS FT FTG GA GFC	DIMENSION DRAWING DOWEL EACH ELECTRICAL CONDUCTOR ELEVATION ELECTRICAL CONDUCTOR ELECTRICAL ELECTRICAL ELECTRICAL METALLIC TUBING ENGINEER EQUAL EXPANSION EXTERIOR EACH WAY FABRICATION FINISH FLOOR FINISH FLOOR FINISH GRADE FACILITY INTERFACE FRAME FINISH(ED) FLOOR FOUNDATION FACE OF CONCRETE FACE OF MASONRY FACE OF STUD FACE OF STUD FACE OF STUD FACE OF WALL FINISH SURFACE FOOT FOOTING GAUGE GENERATOR GROUND FAULT CIRCUIT INTERRUPTER OUVE LIMINATED REMAINTER	REINF REQ'D RET RF RMC RFH RRU RWY SCH SIM SPEC SQ SS STD STL TEMP THK TMA TN TOA TOF TOF TOS TOF TOS TOF TOS STOP UG	REINFC REQUII REMOT RADIO RIGID REMOT REMOT REMOT REMOT SCHED SCHED SCHED SCHED SCHED SCHED SCHED STAINL STAND STEEL THICKI TOP C TOP C TOP C TOP C TOP C TOP C TOP C TOP C TOP C TOP C
DIAG DIM DWG DWL EA EC ELL ELEC EMT ENG EQ EXP EXT EW FAB FF FG FIN FOC FOM FOS FT FTG GA GEN GFCI GLI	DIMENSION DRAWING DOWEL EACH ELECTRICAL CONDUCTOR ELEVATION ELECTRICAL CONDUCTOR ELEVATION ELECTRICAL ELECTRICAL METALLIC TUBING ENGINEER EQUAL EXPANSION EXTERIOR EACH WAY FABRICATION FINISH FLOOR FINISH FLOOR FINISH GRADE FACILITY INTERFACE FRAME FINISH(ED) FLOOR FOUNDATION FACE OF CONCRETE FACE OF MASONRY FACE OF STUD FACE OF STUD FACE OF STUD FACE OF STUD FACE OF WALL FINISH SURFACE FOOT FOOTING GAUGE GENERATOR GROUND FAULT CIRCUIT INTERRUPTER GLUE LAMINATED BEAM	REINF REQ'D RET RF RMC RF RMC RF RMU RWY SCH SH SIM SPEC SQ SS STD STL TEMP THK TMA TN TOA TOF TOF TOS TOP TOS TYP UG UL	REINFC REQUII REMOT RADIO RIGID REMOT RACEW SCHED SHEET SMART SCHED SHEET SMART SCHED SHEET SMART SCHED STAINL STAND STEEL TEMPC THICKI TOP C TOP C TOP C TOP C TOP C TOP C TOP C TOP C TOP C
DIAG DIM DWU EA EC ELL ELEC EMT ENG EQ EXT EW FAB FF FG FIN FOC FOM FS FT FTG GA GEN GLU CLD CLD CLD CLD CLD CLD CLD CLD CLD CLD	DIMENSION DRAWING DOWEL EACH ELECTRICAL CONDUCTOR ELEVATION ELECTRICAL CONDUCTOR ELEVATION ELECTRICAL ELEVATION ELECTRICAL ENGINEER EQUAL EXPANSION EXTERIOR EACH WAY FABRICATION FINISH FLOOR FINISH FLOOR FINISH GRADE FACILITY INTERFACE FRAME FINISH(ED) FLOOR FOUNDATION FACE OF CONCRETE FACE OF MASONRY FACE OF STUD FACE OF STUD FACE OF STUD FACE OF WALL FINISH SURFACE FOOTING GAUGE GENERATOR GROUND FAULT CIRCUIT INTERRUPTER GLUE LAMINATED BEAM GALVANIZED	REINF REQ'D RET RF RMC RRH RRU RWY SCH SHT SIAD SIM SPEC SQ SS STD STL TEMP THK TMA TN TOA TOF TOP TOS TOP TOS TOW TVSS TYP UG UL UNO	REINFC REQUII REMOT RADIO RIGID REMOT RACEW SCHED SHEET SMART SIMILA SCHED SHEET SMART SHEET SMART SHEET SMART SHEET SMART STAIND STEEL TEMPO THICKI TOWER TOP C TOP C TOP C TOP C TOP C TOP C TOP C TOP C TOP C
DIAG DIM DWU EA EC ELL ELEC EMT ENG EQ EXT EW FAB FF FG FIN FLN FOC FOM FS FTG GA GEN GEN GLB GLV GPS	DIMENSION DRAWING DOWEL EACH ELECTRICAL CONDUCTOR ELECTRICAL CONDUCTOR ELECTRICAL ELECTRICAL ELECTRICAL METALLIC TUBING ENGINEER EQUAL EXPANSION EXTERIOR EACH WAY FABRICATION FINISH FLOOR FINISH FLOOR FINISH FLOOR FINISH GRADE FACILITY INTERFACE FRAME FINISH(ED) FLOOR FOUNDATION FACE OF CONCRETE FACE OF MALL FINISH SURFACE FOOT FOOT FOOTING GAUGE GENERATOR GROUND FAULT CIRCUIT INTERRUPTER GLUE LAMINATED BEAM GALVANIZED GLOBAL POSITIONING SYSTEM	REINF REQ'D RET RF RMC RRH RRU RWY SCH SHT SIAD SIM SPEC SQ SS STD STL TEMP THK TMA TN TOA TOF TOP TOS TOP TOS TOP U U U U U U U U U U U U U	REINFC REQUII REMOT RADIO RIGID REMOT RACEW SCHED SHEET SMART SIMILA SCHED SHEET SMART SIMILA SCHED SHEET SMART SHEET SMART SHEET SMART SHEET SMART SHEET SMART SHEET SH
DIAG DIM DWUL EA EC ELL ELEC EMT ENG EQ EXT EW FAB FF FG FIF FIN FCN FOS FOW FS FT FG GA GEN GCL GLB GLV GPS GND	DIMENSION DRAWING DOWEL EACH ELECTRICAL CONDUCTOR ELECTRICAL CONDUCTOR ELECTRICAL ELECTRICAL ELECTRICAL METALLIC TUBING ENGINEER EQUAL EXPANSION EXTERIOR EACH WAY FABRICATION FINISH FLOOR FINISH FLOOR FINISH FLOOR FINISH FLOOR FINISH GRADE FACILITY INTERFACE FRAME FINISH(ED) FLOOR FOUNDATION FACE OF CONCRETE FACE OF MALL FINISH SURFACE FOOT FACE OF STUD FACE OF SUD FACE OF SU	REINF REQ'D RET RF RMC RRH RRU RWY SCH SIM SPEC SQ SS STD STL TEMP THK TMA TN TOA TOF TOP TOS TVP UG UL UNO UMTS UPS	REINFC REQUII REMOT RADIO RIGID REMOT RACEW SCHED SHEET SMART SIMILA SCHED SHEET SMART SIMILA SCHED SHEET SMART SMART SM
DIAG DIM DWL EA EC ELL ELEC EMT ENG EQ EXT EW FAB FF FG FIF FIN FCN FOS FOW FS FT FTG GA GEN GCLB GLV GPS GND GSM	DIMENSION DRAWING DOWEL EACH ELECTRICAL CONDUCTOR ELECTRICAL CONDUCTOR ELECTRICAL ELECTRICAL ELECTRICAL ELECTRICAL METALLIC TUBING ENGINEER EQUAL EXPANSION EXTERIOR EACH WAY FABRICATION FINISH FLOOR FINISH FLOOR FINISH FLOOR FINISH FLOOR FINISH GRADE FACILITY INTERFACE FRAME FINISH(ED) FLOOR FOUNDATION FACE OF CONCRETE FACE OF MASONRY FACE OF STUD FACE OF STUD FACE OF STUD FACE OF WALL FINISH SURFACE FOOT FOOTING GAUGE GENERATOR GROUND FAULT CIRCUIT INTERRUPTER GLUE LAMINATED BEAM GALVANIZED GLOBAL SYSTEM FOR MOBILE UND ROTED ONLINETER	REINF REQ'D RET RF RMC RF RMC RF RMU RWY SCH SIM SPEC SQ SS STD STL TEMP THK TMA TN TOA TOF TOF TOS TOF UG UL UNO UMTS UPS VF	REINFC REQUII REMOT RADIO RIGID REMOT RACEW SCHEET SMART SIMILA SPECIF SMART SIMILA SPECIF SMART SIMILA SPECIF SMART STALL TEMPO THICKI TOP C TOP C TOP C TOP C TOP C TOP C TOP C TOP C TOP C TOP C
DIAG DIM DWL EA EC ELL ELEC EMT ENG EQ EXP EXT EW FAB FF FG FIF FIN FLR FDN FOC FOM FS FT FTG GA GEN GFCI GLU GPS GND HDC	DIMENSION DRAWING DOWEL EACH ELECTRICAL CONDUCTOR ELEVATION ELECTRICAL CONDUCTOR ELEVATION ELECTRICAL ELEVATION ELECTRICAL METALLIC TUBING ENGINEER EQUAL EXPANSION EXTERIOR EACH WAY FABRICATION FINISH FLOOR FINISH FLOOR FINISH FLOOR FINISH GRADE FACILITY INTERFACE FRAME FINISH(ED) FLOOR FOUNDATION FACE OF CONCRETE FACE OF MASONRY FACE OF STUD FACE OF WALL FINISH SURFACE FOOT FOOTING GAUGE GENERATOR GROUND FAULT CIRCUIT INTERRUPTER GLUE LAMINATED BEAM GALVANIZED GLOBAL POSITIONING SYSTEM GROUND GLOBAL SYSTEM FOR MOBILE HOT DIPPED GALVANIZED	REINF REQ'D RET RF RMC RF RMC RF RMU RWY SCH SIM SPEC SQ SS STD STL PHK TMA TN TOA TOF TOP TOS TOP UL UNO UMTS UPS VF W	REINFC REQUII REMOT RADIO RIGID REMOT RACEW SCHED SHEET SMART SIMILA SPECIF SMART SIMILA SPECIF SMART SIMILA SPECIF SMART STAINL
DIAG DIM DWL EA EC ELL ELEC EMT ENG EQ EXP EXT EW FAB FF FG FIN FOC FOM FS FT FG GA GEN GCU GSM HDG HDG HDG HDG	DIMENSION DRAWING DOWEL EACH ELECTRICAL CONDUCTOR ELEVATION ELECTRICAL CONDUCTOR ELEVATION ELECTRICAL ELECTRICAL METALLIC TUBING ENGINEER EQUAL EXPANSION EXTERIOR EACH WAY FABRICATION FINISH FLOOR FINISH FLOOR FINISH GRADE FACILITY INTERFACE FRAME FINISH(ED) FLOOR FOUNDATION FACE OF CONCRETE FACE OF CONCRETE FACE OF CONCRETE FACE OF STUD FACE OF WALL FINISH SURFACE FOOT FOOTING GAUGE GENERATOR GROUND FAULT CIRCUIT INTERRUPTER GLUE LAMINATED BEAM GALVANIZED GLOBAL SYSTEM FOR MOBILE HOT DIPPED GALVANIZED HEADER	REINF REQ'D RET RF RMC RF RMC RF RMU RWY SCH SIM SPEC SQ SS STD STL TEMP THA TN TOA TOF TOS TOP TOS TVSS TV UU UNO UMTS UPS VIF	REINFC REQUII REMOT RADIO RIGID REMOT REMOT REMOT REMOT SCHED SCHE
DIAG DIM DWL EA EC ELL ELEC EMT ENG EQ EXP EXT EW FAB FF FG FIN FOC FOM FOS FOS FT FTG GA GEN GFCI GLB GLV GPS GND HDG HDR HOR HOR	DIMENSION DRAWING DOWEL EACH ELECTRICAL CONDUCTOR ELEVATION ELECTRICAL CONDUCTOR ELEVATION ELECTRICAL ELECTRICAL METALLIC TUBING ENGINEER EQUAL EXPANSION EXTERIOR EACL WAY FABRICATION FINISH FLOOR FINISH FLOOR FINISH GRADE FACILITY INTERFACE FRAME FINISH (ED) FLOOR FOUNDATION FACE OF CONCRETE FACE OF MASONRY FACE OF CONCRETE FACE OF MASONRY FACE OF STUD FACE OF STUD FACE OF WALL FINISH SURFACE FOOT FOOTING GAUGE GENERATOR GROUND FAULT CIRCUIT INTERRUPTER GLUE LAMINATED BEAM GALVANIZED GLOBAL SYSTEM FOR MOBILE HOT DIPPED GALVANIZED HEADER HANGER	REINF REQ'D RET RF RMC RF RMC RF RMU RWY SCH SIM SPEC SQ SS STD STL TEMP THK TN TOA TOF TOS TVS TYP UG UL UNO UMTS UPS VF W Y	REINFC REQUII REMOT RADIO RIGID REMOT RACEW SCHED SHEET SMART SCHED SHEET SMART SCHED SHEET SMART SCHED STAND STEEL TEMPO THICKI TOP C TOP
DIAG DIM DWL EA EC ELL ELEC EMT ENG EQ EXT EW FAB FF FG FIN FOC FOM FS FT FTG GA EQ V GPS GNM HDG HDR HCR C	DIMENSION DRAWING DOWEL EACH ELECTRICAL CONDUCTOR ELEVATION ELECTRICAL CONDUCTOR ELEVATION ELECTRICAL METALLIC TUBING ENGINEER EQUAL EXPANSION EXTERIOR EACLA WAY FABRICATION FINISH FLOOR FINISH FLOOR FINISH GRADE FACILITY INTERFACE FRAME FINISH (ED) FLOOR FOUNDATION FACE OF CONCRETE FACE OF MASONRY FACE OF STUD FACE OF STUD FACE OF STUD FACE OF STUD FACE OF STUD FACE OF STUD FACE OF WALL FINISH SURFACE FOOT FOOTING GAUGE GENERATOR GROUND FAULT CIRCUIT INTERRUPTER GLUE LAMINATED BEAM GALVANIZED GLOBAL SYSTEM FOR MOBILE HOT DIPPED GALVANIZED HEADER HANGER HANGER	REINF REQ'D RET RF RMC RRH RRU RWY SCH SHT SIAD SIM SPEC SQ SS STD STL TEMP THK TMA TN TOA TOF TOP TOS TVP UG UL UNO UMTS UPS VIF W W/ WD	REINFC REQUII REMOT RADIO RIGID REMOT RACEW SCHED SHEET SMART SIMILA SCHED SHEET SMART SHEET SMART SHEET SMART SHEET SMART STAIND STEEL TEMPO THICKI TOWER TOP C TOP C T
DIAG DIM DWL EA EC ELL ELEC EMT EQ EXT EW FAB FF FG FIN FIN FDN FOS FOS FOS FTF GA GEN GUV GPS D GSD HDR HDR HVAC HT	DIMENSION DRAWING DOWEL EACH ELECTRICAL CONDUCTOR ELECTRICAL CONDUCTOR ELECTRICAL ELECTRICAL ELECTRICAL METALLIC TUBING ENGINEER EQUAL EXPANSION EXTERIOR EACH WAY FABRICATION FINISH FLOOR FINISH FLOOR FINISH FLOOR FINISH GRADE FACILITY INTERFACE FRAME FINISH GRADE FACILITY INTERFACE FRAME FINISH(ED) FLOOR FOUNDATION FACE OF CONCRETE FACE OF MALL FINISH SURFACE FOOT FACE OF STUD FACE OF SUD FACE OF WALL FINISH SURFACE FOOT FOOTING GAUGE GENERATOR GROUND FAULT CIRCUIT INTERRUPTER GLUE LAMINATED BEAM GALVANIZED GLOBAL POSITIONING SYSTEM GROUND GLOBAL SYSTEM FOR MOBILE HAT./VENTILATION/AIR CONDITIONING HEIGHT	REINF REQ'D RET RF RMC RRH RRU RWY SCH SIM SPEC SQ SS STD THK TMA TN TOA TOF TOS TVP UG UL UNTS UPS VIF W W/ WD W ST	REINFC REQUII REMOT RADIO RIGID REMOT RACEW SCHED SHEET SMART SIMILA SCHED SHEET SMART SIMILA SCHED SHEET SMART STAND STEEL TEMPO TOP O TOP O TO
DIAG DIM DWL EA EC ELL ELEC EMT EQ EXT EW FAB FF FG FIN FIN FDN FOS FOS FOS FTG GAN GEN GEN GSD HDR HDR HDR HDR HT IGR	DIMENSION DRAWING DOWEL EACH ELECTRICAL CONDUCTOR ELECTRICAL CONDUCTOR ELECTRICAL ELECTRICAL ELECTRICAL METALLIC TUBING ENGINEER EQUAL EXPANSION EXTERIOR EACH WAY FABRICATION FINISH FLOOR FINISH FLOOR FINISH FLOOR FINISH GRADE FACILITY INTERFACE FRAME FINISH GRADE FACILITY INTERFACE FRAME FINISH(ED) FLOOR FOUNDATION FACE OF CONCRETE FACE OF MALL FINISH SURFACE FOOT FACE OF STUD FACE OF SUD FACE OF S	REINF REQ'D RET RF RMC RRH RRU RWY SCH SIM SPEC SQ SS STD STL PHK TMA TN TOA TOF TOP TOS TVP UG UL UNO UMTS VIF W W/ WD WT	REINFC REQUII REMOT RADIO RIGID REMOT RACEW SCHEL SHEET SMART SIMILA SPECII SQUAF STAINL STAND STEEL TEMPC THICKI TOWEF TOE N TOP C TOP C

RIOR ND(S) AR FEET TERM EVOLUTION NRY MUM INE BOLT ANICAL FACTURER ER GROUND BAR AL IM LLANEOUS JAL TRANSFER SWITCH WAVE NAL ELECTRIC CODE ON METERS BER BER TO SCALE CENTER JPATIONAL SAFETY AND HEALTH ADMINISTRATION ING CAST CONCRETE ONAL COMMUNICATION SERVICES ARY CONTROL UNIT ARY RADIO CABINET RIZING PRESERVING NDS PER SQUARE FOOT NDS PER SQUARE INCH SURE TREATED ER CABINET YTITY IFIER RENCE ORCEMENT IRED DTE ELECTRIC TILT FREQUENCY METALLIC CONDUIT DTE RADIO HEAD DTE RADIO UNIT WAY DULE INTEGRATED ACCESS DEVICE FICATION RE ILESS STEEL DARD ORARY NESS R MOUNTED AMPLIFIER NAIL OF ANTENNA OF CURB OF FOUNDATION OF PLATE (PARAPET) OF STEEL OF WALL ISIENT VOLTAGE SURGE SUPPRESSION CAL RGROUND RWRITERS LABORATORY ESS NOTED OTHERWISE ERSAL MOBILE TELECOMMUNICATIONS SYSTEM ERRUPTIBLE POWER SYSTEM (DC POWER PLANT) FIED IN FIELD IERPROOF HT



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 WIRELESS 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 WIRELS LLC. 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

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.


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 (I'c) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE. NO 3. 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 6. 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 ELIMINATED.

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

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.

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 ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS SHOWING THEIR RATED VOLTAGE, PHASE 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.

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 EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH 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 13 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 NEC.

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

16.

ELECTRICAL METALLIC TUBING (EMT) OR METAL-CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS. 17. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET 19. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND THE WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS 22. SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).

18. OCCURS OR FLEXIBILITY IS NEEDED.

SCREW FITTINGS ARE NOT ACCEPTABLE.

20. NEC.

21 (WIREMOLD SPECMATE WIREWAY).

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.

25. METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING; SHALL MEET OR 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.

THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE 28. 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.".
- 30. ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.



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



BST Management, LLC 325 Park Street, Suite 106 North Reading, MA 01864



GPD# 2022701.78

February 1, 2022

COMPREHENSIVE STRUCTURAL ANALYSIS REPORT

SITE DESIGNATION:	Dish Site #: Client #: Site Name:	BOBDL00114A CT-1263 Old Saybrook, Boston Post Road
ANALYSIS CRITERIA:	Codes:	TIA-222-H 125 mph (3-second gust) w/ 0" ice 50 mph (3-second gust) w/ 1" ice
SITE DATA:		1363 Boston Post Road, Old Saybrook, CT 06475, Middlesex County Latitude 41° 17' 23.27" N, Longitude 72° 24' 21.398" W 99' Sabre Monopole

To whom it may concern,

GPD is pleased to submit this Comprehensive Structural Analysis Report to determine the structural integrity of the aforementioned tower. The purpose of the analysis is to determine the suitability of the tower with the existing and proposed loading configuration detailed in the analysis report.

Analysis Results

Tower Stress Level with Proposed Equipment:	53.0%	Pass
Foundation Ratio with Proposed Equipment:	74.1%	Pass

We at GPD appreciate the opportunity of providing our continuing professional services to you and BST Management. If you have any questions or need further assistance on this or any other projects please do not hesitate to call.

Respectfully submitted,



SUMMARY & RESULTS

The purpose of this analysis was to verify whether the existing structure is capable of carrying the proposed loading configuration as specified by DISH Wireless and commissioned by BST Management.

This analysis has been performed in accordance with the TIA-222-H Standard based upon a 3-second gust wind speed of 125 mph. Applicable Standard references and design criteria are listed in Appendices A & B.

The proposed feedlines shall be installed as shown in Appendices A & B for the analysis results to be valid.

Member	Capacity	Results
Monopole	53.0%	Pass
Anchor Rods	41.3%	Pass
Base Plate	47.3%	Pass
Foundation	74.1%	Pass

TOWER SUMMARY AND RESULTS

RECOMMENDATIONS

The tower and its foundation have sufficient capacity to carry the proposed loading configuration. No modifications are required at this time.

ANALYSIS METHOD

tnxTower (Version 8.1.1.0), a commercially available software program, was used to create a three-dimensional model of the tower and calculate primary member stresses for various load cases. Selected output from the analysis is included the report appendices. The following table details the information provided to complete this structural analysis. This analysis is solely based on this information.

DOCUMENTS PROVIDED

Document	Remarks	Source
Collocation Application	Site #: CT-1263	BST
Collocation Application	Sile #. 01-1203	Management
Tower Design	Sabre Job #: 49722, dated 9/22/2011	GPD
Foundation Design	Sabre Job #: 49722, dated 9/22/2011	GPD
Geotechnical Report	Dr. Clarence Welti, P.E., P.C., dated 6/1/2011	GPD
Previous Tower Analysis	GPD Job #: 2021723.34, dated 9/21/2021	GPD
Previous Tower Analysis	FDH Project #: 17QBDY1400, 4/25/2017	GPD

ASSUMPTIONS

This structural analysis is based on the theoretical capacity of the members and is not a condition assessment of the tower. This analysis is from information supplied, and therefore, its results are based on and are as accurate as that supplied data. GPD has made no independent determination, nor is it required to, of its accuracy. The following assumptions were made for this structural analysis.

- 1. The tower member sizes and shapes are considered accurate as supplied. The material grade is as per data supplied and/or as assumed and as stated in the materials section.
- 2. The appurtenance configuration is as supplied, determined from available photos, and/or as modeled in the analysis. It is assumed to be complete and accurate. All antennas, mounts, coax and waveguides are assumed to be properly installed and supported as per manufacturer requirements.
- 3. All mounts, if applicable, are considered adequate to support the loading. No actual analysis of the mount(s) is performed. This analysis is limited to analyzing the tower only.
- 4. The soil parameters are as per data supplied or as assumed and stated in the calculations.
- 5. Foundations are properly designed and constructed to resist the original design loads indicated in the documents provided.
- 6. The tower and structures have been properly maintained in accordance with TIA Standards and/or with manufacturer's specifications.
- 7. All welds and connections are assumed to develop at least the member capacity unless determined otherwise and explicitly stated in this report.
- 8. All prior structural modifications, if applicable, are assumed to be as per data supplied/available and to have been properly installed.
- 9. Loading interpreted from photos is accurate to ±5' AGL, antenna size accurate to ±3.3 sf, and coax equal to the number of existing antennas without reserve.
- 10. All existing and proposed loading has been taken from the available site photos as well as documents supplied to GPD at the time of generating this report. All such documents are listed in the Documents Provided Table and are assumed to be accurate. GPD is not responsible for loading scenarios outside those conveyed in the supplied documentation.

If any of these assumptions are not valid or have been made in error, this analysis may be affected, and GPD should be allowed to review any new information to determine its effect on the structural integrity of the tower.

DISCLAIMER OF WARRANTIES

GPD has not performed a site visit to the tower to verify the member sizes or antenna/coax loading. If the existing conditions are not as represented on the tower elevation contained in this report, we should be contacted immediately to evaluate the significance of the discrepancy. This is not a condition assessment of the tower or foundation. This report does not replace a full tower inspection. The tower and foundations are assumed to have been properly fabricated, erected, maintained, in good condition, twist free, and plumb.

The engineering services rendered by GPD in connection with this Comprehensive Structural Analysis are limited to a computer analysis of the tower structure and theoretical capacity of its main structural members. No allowance was made for any damaged, bent, missing, loose, or rusted members (above and below ground). No allowance was made for loose bolts or cracked welds.

This analysis is limited to the designated maximum wind and seismic conditions per the governing tower standards and code. Wind forces resulting in tower vibrations near the structure's resonant frequencies were not considered in this analysis and are outside the scope of this analysis. Lateral loading from any dynamic response was not evaluated under a time-domain based fatigue analysis.

GPD does not analyze the fabrication of the structure (including welding). It is not possible to have all the very detailed information needed to perform a thorough analysis of every structural sub-component and connection of an existing tower. GPD provides a limited scope of service in that we cannot verify the adequacy of every weld, plate connection detail, etc. The purpose of this report is to assess the capability of adding appurtenances usually accompanied by transmission lines to the structure.

It is the owner's responsibility to determine the amount of ice accumulation in excess of the code specified amount, if any, that should be considered in the structural analysis.

The attached sketches are a schematic representation of the analyzed tower. If any material is fabricated from these sketches, the contractor shall be responsible for field verifying the existing conditions, proper fit, and clearance in the field. Any mentions of structural modifications are reasonable estimates and should not be used as a precise construction document. Precise modification drawings are obtainable from GPD, but are beyond the scope of this report.

Miscellaneous items such as antenna mounts, etc., have not been designed or detailed as a part of our work. We recommend that material of adequate size and strength be purchased from a reputable tower manufacturer.

Towers are designed to carry gravity, wind, and ice loads. All members, legs, diagonals, struts, and redundant members provide structural stability to the tower with little redundancy. Absence or removal of a member can trigger catastrophic failure unless a substitute is provided before any removal. Legs carry axial loads and derive their strength from shorter unbraced lengths by the presence of redundant members and their connection to the diagonals with bolts or welds. If the bolts or welds are removed without providing any substitute to the frame, the leg is subjected to a higher unbraced length that immediately reduces its load carrying capacity. If a diagonal is also removed in addition to the connection, the unbraced length of the leg is greatly increased, jeopardizing its load carrying capacity. Failure of one leg can result in a tower collapse because there is no redundancy. Redundant members and diagonals are critical to the stability of the tower.

GPD makes no warranties, expressed and/or implied, in connection with this report and disclaims any liability arising from material, fabrication, and erection of this tower. GPD will not be responsible whatsoever for, or on account of, consequential or incidental damages sustained by any person, firm, or organization as a result of any data or conclusions contained in this report. The maximum liability of GPD pursuant to this report will be limited to the total fee received for preparation of this report.

APPENDIX A

Tower Analysis Summary Form

Tower Analysis Summary Form

General Info

Site Name	Old Saybrook, Boston Post Road (CT-1263)
Site Number	BOBDL00114A
FA Number	10133875
Date of Analysis	2/1/2022
Company Performing Analysis	GPD

Tower Info	Description	Date
Tower Type (G, SST, MP)	MP	
Tower Height (top of steel AGL)	99'	
Tower Manufacturer	Sabre	
Tower Model	n/a	
Tower Design	Sabre Job #: 49722	9/22/2011
Foundation Design	Sabre Job #: 49722	9/22/2011
Geotechnical Report	Dr. Clarence Welti, P.E., P.C.	6/1/2011
Previous Tower Analysis	GPD Job #: 2021723.34	9/2182021

Design Parameters Design Code Used TIA-222-H Location of Tower (County, State) Middlesex, CT Wind Speed (mph) 125 (3-second gust) Ice Thickness (in) 1 Risk Category (I, II, III) II Exposure Category (B, C, D) B Topographic Category (I to 5) 1

The information contained in this summary report is not to be used independently from the PE stamped tower analysis.

Analysis Results (% Maximum Usage) Existing/Reserved + Future + Proposed Condition Tower (%) 53.0% Tower Base (%) 47.3% Foundation (%) 74.1% Foundation Adequate? Yes

Existing / Reserved Loading

	Antenna						Mount			Transmission Line				
Antenna Owner	Mount Height (ft)	Antenna CL (ft)	Quantity	Туре	Manufacturer	Model	Azimuth	Quantity	Manufacturer	Туре	Quantity	Model	Size	Attachment Int/Ext
AT&T Mobility	97	97	3	Panel	KMW	AM-X-CD-16-65-00T-RET	40/150/270	6	Site Pro	12.5' T-Arms	6	Unknown	1-5/8"	Internal
AT&T Mobility	97	97	9	Panel	CCI Antennas	HPA-65R-BUU-H6	40/150/270			on the same mount	6	DC Cable	15.4 mm	Internal
AT&T Mobility	97	97	3	TMA	CCI	DTMABP7819VG12A				on the same mount	1	Fiber Cable	10 mm	Internal
AT&T Mobility	97	97	6	RRH	Ericsson	RRUS 11				on the same mount				
AT&T Mobility	97	97	6	RRH	Ericsson	RRUS 12				on the same mount				
AT&T Mobility	97	97	3	RRH	Ericsson	RRUS E2				on the same mount				
AT&T Mobility	97	97	3	RRH	Ericsson	RRUS 32				on the same mount				
AT&T Mobility	97	97	6	RRH	Ericsson	KRC 161 286-1 (A2 Module)				on the same mount				
AT&T Mobility	97	97	3	Surge	Raycap	DC6-48-60-18-8F				on the same mount				
Verizon	85	85	3	Panel	Commscope	LNX-6515DS-VTM	30/150/270	1	EEI	K10994A Platform	2	Unknown	1-5/8"	Internal
Verizon	85	85	6	Panel	Commscope	SBNHH-1D65B	30/150/270			on the same mount				
Verizon	85	85	3	RRH	ALU	RRH4x30-4R				on the same mount				
Verizon	85	85	3	RRH	ALU	RH_60W-PCS				on the same mount				
Verizon	85	85	3	RRH	ALU	B66A RRH4x45				on the same mount				
Verizon	85	85	2	Fiber Box	RFS	DB-T1-6Z-8AB-0Z				on the same mount				

Proposed Loading

Antenna							Mount			Transmission Line				
Antenna Owner	Mount Height (ft)	Antenna CL (ft)	Quantity	Туре	Manufacturer	Model	Azimuth	Quantity	Manufacturer	Туре	Quantity	Model	Size	Attachment Int/Ext
Dish Wireless	75	75	3	Panel	JMA	MX08FRO665-20_V0F	0/120/240	3	Commscope	MC-K6M-9-96	1	Hybrid	1.60"	Internal
Dish Wireless	75	75	6	RRH	Fujitsu	TA08025-B605				on the same mounts				
Dish Wireless	75	75	1	Surge	Raycap	RDIDC-9181-PF-48				on the same mounts				

Note: The proposed coax shall be installed inside the monopole in order for this analysis to be valid.

APPENDIX B

Tower Analysis Output File





GPD 520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (330) 572-2100 FAX: (330) 572-2101

CT1284 / OLD SAYBROC	OK BOSTON F	POST RE
Project: 2022701.78		
Client: Blue Sky Tower Management	^{Drawn by:} msteward	App'd:
^{Code:} TIA-222-H	Date: 02/01/22	^{Scale:} NTS
Path:	0 Rev 0/03 Modeling\105130.eri	Dwg No. E-1

Feed Line Distribution Chart 0' - 99'

Flat _____ App In Face _____ App Out Face _____ Truss Leg

Round





	^{Job:} CT1284 / OLD SAYBRO	OK BOSTON F	POST RD					
31	Project: 2022701.78							
-	^{Client:} Blue Sky Tower Management	^{Drawn by:} msteward	App'd:					
	^{Code:} TIA-222-H	Date: 02/01/22	Scale: NTS					
	Path:							

CT1284 /	OLD SAYB	ROOK BC	STON PO	ST RD
011204/	OLD OATD	NOOK DC		

Date

Job

Project

Client

520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (330) 572-2100 FAX: (330) 572-2101 2022701.78

Blue Sky Tower Management

Designed by msteward

08:02:08 02/01/22

Tower Input Data

The tower is a monopole.

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

The following design criteria apply:

Tower is located in Middlesex County, Connecticut. Tower base elevation above sea level: 8.00 ft. Basic wind speed of 125 mph. Risk Category II. Exposure Category B. Simplified Topographic Factor Procedure for wind speed-up calculations is used. Topographic Category: 1. Crest Height: 0.00 ft. Nominal ice thickness of 1.0000 in. Ice thickness is considered to increase with height. Ice density of 56 pcf. A wind speed of 50 mph is used in combination with ice. Temperature drop of 50 °F. Deflections calculated using a wind speed of 60 mph. A non-linear (P-delta) analysis was used. Pressures are calculated at each section. Stress ratio used in pole design is 1.

Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

Consider Moments - Legs Distribute Leg Loads As Uniform Use ASCE 10 X-Brace Ly Rules Consider Moments - Horizontals Assume Legs Pinned Calculate Redundant Bracing Forces Consider Moments - Diagonals Assume Rigid Index Plate Ignore Redundant Members in FEA Use Moment Magnification Use Clear Spans For Wind Area SR Leg Bolts Resist Compression Use Clear Spans For KL/r Use Code Stress Ratios All Leg Panels Have Same Allowable Retension Guys To Initial Tension Offset Girt At Foundation Use Code Safety Factors - Guys Bypass Mast Stability Checks Consider Feed Line Torque Escalate Ice Always Use Max Kz Use Azimuth Dish Coefficients Include Angle Block Shear Check Use Special Wind Profile Project Wind Area of Appurt. Use TIA-222-H Bracing Resist. Exemption Include Bolts In Member Capacity Autocalc Torque Arm Areas Use TIA-222-H Tension Splice Exemption Add IBC .6D+W Combination Leg Bolts Are At Top Of Section Poles Secondary Horizontal Braces Leg Sort Capacity Reports By Component Include Shear-Torsion Interaction Use Diamond Inner Bracing (4 Sided) Triangulate Diamond Inner Bracing Always Use Sub-Critical Flow SR Members Have Cut Ends Treat Feed Line Bundles As Cylinder Use Top Mounted Sockets Pole Without Linear Attachments SR Members Are Concentric Ignore KL/ry For 60 Deg. Angle Legs

Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known

Tapered Pole Section Geometry

Section	Elevation	Section Length	Splice Length	Number of	Top Diameter	Bottom Diameter	Wall Thickness	Bend Radius	Pole Grade
	ft	ft	ft	Sides	in	in	in	in	
L1	99.00-48.50	50.50	4.75	18	22.1400	34.1500	0.2500	1.0000	A572-65 (65 ksi)
L2	48.50-0.00	53.25		18	32.5203	45.2000	0.3125	1.2500	A572-65 (65 ksi)

CT1284 / OLD SAYBROOK BOSTON POST RD

Project

Job

Client

2022701.78

}

Date 08:02:08 02/01/22

520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (330) 572-2100 FAX: (330) 572-2101

Blue Sky Tower Management

Designed by msteward

Tapered Pole Properties

Section	Tip Dia.	Area	Ι	r	С	I/C	J	It/Q	w	w/t
	in	in ²	in^4	in	in	in ³	in^4	in^2	in	
L1	22.4430	17.3697	1051.5300	7.7710	11.2471	93.4933	2104.4436	8.6865	3.4566	13.827
	34.6383	26.8996	3905.5615	12.0345	17.3482	225.1278	7816.2619	13.4524	5.5704	22.282
L2	34.1223	31.9462	4186.7736	11.4338	16.5203	253.4315	8379.0563	15.9761	5.1736	16.555
	45.8491	44.5228	11333.6722	15.9351	22.9616	493.5924	22682.2576	22.2656	7.4052	23.697

Tower	Gusset	Gusset	Gusset Grade	Adjust. Factor	Adjust.	Weight Mult.	Double Angle	Double Angle	Double Angle
Elevation	Area	Thickness		A_f	Factor		Stitch Bolt	Stitch Bolt	Stitch Bolt
	(per face)				A_r		Spacing	Spacing	Spacing
							Diagonals	Horizontals	Redundants
ft	ft^2	in					in	in	in
L1 99.00-48.50				1	1	1			
L2 48.50-0.00				1	1	1			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From	Component Type	Placement	Total Number	Number Per Row	Start/End Position	Width or Diameter	Perimeter	Weight
		Torque Calculation		ft				in	in	plf
5/8" Step Bolts	С	No	Surface Ar (CaAa)	99.00 - 8.00	1	1	0.000 0.000	0.4167		1.00

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or	Allow Shield	Exclude From	Component Type	Placement	Total Number		$C_A A_A$	Weight
	Leg		Torque Calculation		ft			ft²/ft	plf
Safety Line (3/8")	С	No	No	CaAa (Out Of Face)	99.00 - 8.00	1	No Ice 1/2" Ice 1" Ice	0.04 0.14 0.24	0.22 0.75 1.28
LDF7-50A (1-5/8 FOAM)	Α	No	No	Inside Pole	97.00 - 8.00	6	No Ice 1/2" Ice 1" Ice	$0.00 \\ 0.00 \\ 0.00$	0.82 0.82 0.82
15.4mm DC Power	Α	No	No	Inside Pole	95.00 - 8.00	6	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.50 0.50 0.50
10mm Fiber Cable	А	No	No	Inside Pole	95.00 - 8.00	1	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.10 0.10 0.10
**** LDF7-50A (1-5/8 FOAM) ****	В	No	No	Inside Pole	85.00 - 8.00	2	No Ice 1/2" Ice 1" Ice	$0.00 \\ 0.00 \\ 0.00$	0.82 0.82 0.82
1.60" Hybrid	В	No	No	Inside Pole	75.00 - 8.00	1	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.85 0.85 0.85



CT1284 / OLD SAYBROOK BOSTON POST RD

Job

Project

Client

2022701.78

Date 08:02:08 02/01/22

520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (330) 572-2100 FAX: (330) 572-2101

Blue Sky Tower Management

Designed by msteward

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral	Azimuth Adjustment	Placement		$C_A A_A$ Front	C _A A _A Side	Weight
	8		Vert ft ft	0	ft		ft^2	ft ²	K
T-Arm Mount [TA 602-3]	А	None	ji	0.0000	97.00	No Ice	13.40	13.40	0.77
L J						1/2" Ice	16.44	16.44	1.00
						1" Ice	19.70	19.70	1.29
T-Arm Mount [TA 602-3]	А	None		0.0000	93.00	No Ice	13.40	13.40	0.77
						1/2" Ice	16.44	16.44	1.00
AM Y OD 16 65 AOT DET		г г	1.00	0.0000	07.00	I" Ice	19.70	19.70	1.29
AM-X-CD-10-05-001-KE1	А	From Face	4.00	0.0000	97.00	No Ice 1/2" Ico	8.31	0.05	0.09
w/ Would Pipe			3.00			1/2 ICe	0.05	7.08	0.10
AM-X-CD-16-65-00T-RFT	в	From Face	-3.00	0.0000	97.00	No Ice	9.37 8 31	6.50	0.23
w/ Mount Pipe	Б	1 Iom I dee	0.00	0.0000	97.00	1/2" Ice	8 85	7.68	0.09
			-3.00			1" Ice	9.37	8.56	0.23
AM-X-CD-16-65-00T-RET	С	From Face	4.00	0.0000	97.00	No Ice	8.31	6.65	0.09
w/ Mount Pipe			0.00			1/2" Ice	8.85	7.68	0.16
-			-3.00			1" Ice	9.37	8.56	0.23
(3) HPA-65R-BUU-H6 w/	А	From Face	4.00	0.0000	97.00	No Ice	9.90	8.11	0.08
Mount Pipe			0.00			1/2" Ice	10.47	9.30	0.16
			-3.00			1" Ice	11.01	10.21	0.25
(3) HPA-65R-BUU-H6 w/	В	From Face	4.00	0.0000	97.00	No Ice	9.90	8.11	0.08
Mount Pipe			0.00			1/2" Ice	10.47	9.30	0.16
	~		-3.00			1" Ice	11.01	10.21	0.25
(3) HPA-65R-BUU-H6 w/	С	From Face	4.00	0.0000	97.00	No Ice	9.90	8.11	0.08
Mount Pipe			0.00			1/2" Ice	10.47	9.30	0.16
DTMADD7010VC12A		г г	-3.00	0.0000	07.00	I" Ice	11.01	10.21	0.25
DIMABP/819VGI2A	А	From Face	4.00	0.0000	97.00	No Ice	1.00	0.41	0.02
			0.00			1/2" Ice	1.13	0.51	0.03
DTMADD7810VG12A	D	From Food	-3.00	0.0000	07.00	No Ice	1.27	0.61	0.04
DIMABE / 819 VOIZA	Б	FIOIIIFace	4.00	0.0000	97.00	1/2" Ice	1.00	0.41	0.02
			-3.00			1" Ice	1.13	0.51	0.05
DTMABP7819VG12A	С	From Face	4.00	0.0000	97.00	No Ice	1.00	0.41	0.02
	e	1101111400	0.00	0.0000	97.00	1/2" Ice	1.13	0.51	0.03
			-3.00			1" Ice	1.27	0.61	0.04
(2) RRUS 11	А	From Face	4.00	0.0000	97.00	No Ice	2.78	1.19	0.05
			0.00			1/2" Ice	2.99	1.33	0.07
			-3.00			1" Ice	3.21	1.49	0.10
(2) RRUS 11	В	From Face	4.00	0.0000	97.00	No Ice	2.78	1.19	0.05
			0.00			1/2" Ice	2.99	1.33	0.07
			-3.00			1" Ice	3.21	1.49	0.10
(2) RRUS 11	С	From Face	4.00	0.0000	97.00	No Ice	2.78	1.19	0.05
			0.00			1/2" Ice	2.99	1.33	0.07
		F F	-3.00	0.0000	07.00	I" Ice	3.21	1.49	0.10
(2) RRUS 12	A	From Face	4.00	0.0000	97.00	No Ice	3.15	1.29	0.06
			2.00			1/2" Ice	3.30	1.44	0.08
(2) PPUS 12	в	From Face	-5.00	0.0000	97.00	No Ice	3.39	1.00	0.11
(2) KKUS 12	D	From Face	4.00 0.00	0.0000	97.00	1/2" Ice	3 36	1.27	0.00
			-3.00			1" Ice	3 59	1.60	0.11
(2) RRUS 12	С	From Face	4.00	0.0000	97.00	No Ice	3.15	1.29	0.06
(2) 12(0) 12	- C		0.00	0.0000	27.00	1/2" Ice	3.36	1.44	0.08
			-3.00			1" Ice	3.59	1.60	0.11
RRUS E2	А	From Face	4.00	0.0000	97.00	No Ice	3.15	1.29	0.06
			0.00			1/2" Ice	3.36	1.44	0.08
			-3.00			1" Ice	3.59	1.60	0.11

tnxTower

Job CT1284 / OLD SAYBROOK BOSTON POST RD

Date

Project

Client

GPD 520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (330) 572-2100 FAX: (330) 572-2101

Blue Sky Tower Management

2022701.78

Designed by msteward

08:02:08 02/01/22

Description	Face or Leg	Offset Type	Offsets: Horz Lateral	Azimuth Adjustment	Placement		$C_A A_A$ Front	C _A A _A Side	Weight
	-0		Vert ft ft	o	ft		ft²	ft ²	Κ
			ft						
RRUS E2	В	From Face	4.00	0.0000	97.00	No Ice	3.15	1.29	0.06
			0.00			1/2" Ice	3.36	1.44	0.08
			-3.00			1" Ice	3.59	1.60	0.11
RRUS E2	С	From Face	4.00	0.0000	97.00	No Ice	3.15	1.29	0.06
			0.00			1/2" Ice	3.36	1.44	0.08
DDUG 22		F F	-3.00	0.0000	07.00	1" Ice	3.59	1.60	0.11
RRUS 32	А	From Face	4.00	0.0000	97.00	No Ice	3.31	2.42	0.08
			0.00			1/2" Ice	3.56	2.64	0.10
DDUS 32	В	From Face	-3.00	0.0000	97.00	No Ice	3.81	2.80	0.14
KK05 52	Б	110111 Pace	4.00	0.0000	97.00	1/2" Ice	3.56	2.42	0.08
			-3.00			172 ICC	3.81	2.04	0.10
RRUS 32	С	From Face	4 00	0.0000	97.00	No Ice	3 31	2.00	0.08
1000 52	Ũ	1 tom 1 dee	0.00	0.0000	97.00	1/2" Ice	3.56	2.64	0.10
			-3.00			1" Ice	3.81	2.86	0.14
(2) KRC 161 286-1 (A2	А	From Face	4.00	0.0000	97.00	No Ice	1.87	0.43	0.02
Module)			0.00			1/2" Ice	2.05	0.54	0.03
,			-3.00			1" Ice	2.24	0.66	0.04
(2) KRC 161 286-1 (A2	В	From Face	4.00	0.0000	97.00	No Ice	1.87	0.43	0.02
Module)			0.00			1/2" Ice	2.05	0.54	0.03
,			-3.00			1" Ice	2.24	0.66	0.04
(2) KRC 161 286-1 (A2	С	From Face	4.00	0.0000	97.00	No Ice	1.87	0.43	0.02
Module)			0.00			1/2" Ice	2.05	0.54	0.03
			-3.00			1" Ice	2.24	0.66	0.04
DC6-48-60-18-8F Surge	А	From Face	1.00	0.0000	95.00	No Ice	0.92	0.92	0.02
Suppression Unit			0.00			1/2" Ice	1.46	1.46	0.04
	_		0.00			1" Ice	1.64	1.64	0.06
DC6-48-60-18-8F Surge	В	From Face	1.00	0.0000	95.00	No Ice	0.92	0.92	0.02
Suppression Unit			0.00			1/2" Ice	1.46	1.46	0.04
DC(49 (0.19 0F C	C	г г	0.00	0.0000	05.00	I" Ice	1.64	1.64	0.06
DC6-48-60-18-8F Surge	C	From Face	1.00	0.0000	95.00	No Ice	0.92	0.92	0.02
Suppression Unit			0.00			1/2" Ice	1.40	1.40	0.04
****			0.00			1 Ice	1.04	1.04	0.00
EELK10994A [LP 302-1]	Δ	None		0.0000	85.00	No Ice	26.56	26.56	1 71
LEI K10774A [LI 502-1]	А	None		0.0000	05.00	1/2" Ice	33.67	33.67	2.26
						1" Ice	40.39	40.39	2.95
LNX-6515DS-VTM	А	From	4.00	0.0000	85.00	No Ice	11.45	7.70	0.05
		Centroid-Fa	0.00			1/2" Ice	12.06	8.29	0.12
		ce	0.00			1" Ice	12.69	8.89	0.19
LNX-6515DS-VTM	В	From	4.00	0.0000	85.00	No Ice	11.45	7.70	0.05
		Centroid-Fa	0.00			1/2" Ice	12.06	8.29	0.12
		ce	0.00			1" Ice	12.69	8.89	0.19
LNX-6515DS-VTM	С	From	4.00	0.0000	85.00	No Ice	11.45	7.70	0.05
		Centroid-Fa	0.00			1/2" Ice	12.06	8.29	0.12
		ce	0.00			1" Ice	12.69	8.89	0.19
(2) SBNHH-1D65B	А	From	4.00	0.0000	85.00	No Ice	8.16	5.40	0.04
		Centroid-Fa	0.00			1/2" Ice	8.62	5.85	0.09
		ce	0.00	0.0000	05.00	I" Ice	9.09	6.32	0.15
(2) SBNHH-1D65B	В	From Control 1 D	4.00	0.0000	85.00	No Ice	8.16	5.40	0.04
		Centroid-Fa	0.00			1/2" Ice	8.62	5.85	0.09
(2) SDNIIII 1D(5D	0	ce Enc	0.00	0.0000	05.00	I" Ice	9.09	0.32 5.40	0.15
(2) 2BINHH-1D02B	C	FIOM Controid E-	4.00	0.0000	85.00	1/2" Loo	8.10 8.60	5.40	0.04
		Centrola-Fa	0.00			1/2 lce	0.02 0.00	5.85 6.32	0.09
RRH4v30_4P	Δ	From	4.00	0.0000	85.00	No Ice	9.09 2.14	1 31	0.15
KKIITAJO-TK	п	Centroid-Fa	0.00	0.0000	05.00	1/2" Ice	2.33	1.46	0.07

tnxTower

Job CT1284 / OLD SAYBROOK BOSTON POST RD

Date

Project

Client

GPD 520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (330) 572-2100 FAX: (330) 572-2101

Blue Sky Tower Management

2022701.78

Designed by msteward

08:02:08 02/01/22

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Description	Face or Leg	Offset Type	Offsets: Horz Lateral	Azimuth Adjustment	Placement		$C_A A_A$ Front	C _A A _A Side	Weight
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		Leg		Vert ft	o	ft		ft^2	ft^2	K
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				ft ft		jt		Ji	jt	п
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			ce	0.00			1" Ice	2.53	1.63	0.09
$ \begin{array}{c} {\rm Centroid-Fa} & 0.00 & 1^{1/2}{\rm [ce} & 2.53 \\ {\rm RH4x30-4R} & {\rm C} & {\rm From} & 4.00 & 0.000 & 85.00 & {\rm No} {\rm Icc} & 2.14 \\ {\rm Centroid-Fa} & 0.00 & 1^{1/2}{\rm [ce} & 2.33 \\ {\rm RH}_{-}60{\rm W-PCS} & {\rm A} & {\rm From} & 4.00 & 0.000 & 85.00 & {\rm No} {\rm Icc} & 2.33 \\ {\rm Centroid-Fa} & 0.00 & 1^{1/2}{\rm [ce} & 2.33 \\ {\rm Centroid-Fa} & 0.00 & 1^{1/2}{\rm [ce} & 2.39 \\ {\rm Centroid-Fa} & 0.00 & 1^{1/2}{\rm [ce} & 2.39 \\ {\rm Centroid-Fa} & 0.00 & 1^{1/2}{\rm [ce} & 2.39 \\ {\rm Centroid-Fa} & 0.00 & 1^{1/2}{\rm [ce} & 2.39 \\ {\rm Centroid-Fa} & 0.00 & 1^{1/2}{\rm [ce} & 2.39 \\ {\rm Centroid-Fa} & 0.00 & 1^{1/2}{\rm [ce} & 2.39 \\ {\rm Centroid-Fa} & 0.00 & 1^{1/2}{\rm [ce} & 2.39 \\ {\rm Centroid-Fa} & 0.00 & 1^{1/2}{\rm [ce} & 2.39 \\ {\rm Centroid-Fa} & 0.00 & 1^{1/2}{\rm [ce} & 2.39 \\ {\rm Centroid-Fa} & 0.00 & 1^{1/2}{\rm [ce} & 2.39 \\ {\rm Centroid-Fa} & 0.00 & 1^{1/2}{\rm [ce} & 2.39 \\ {\rm Centroid-Fa} & 0.00 & 1^{1/2}{\rm [ce} & 2.39 \\ {\rm Centroid-Fa} & 0.00 & 1^{1/2}{\rm [ce} & 2.59 \\ \end{array} $	RRH4x30-4R	В	From	4.00	0.0000	85.00	No Ice	2.14	1.31	0.05
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			Centroid-Fa	0.00			1/2" Ice	2.33	1.46	0.07
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	DD114 20 4D	C	ce	0.00	0.0000	95.00	I" Ice	2.53	1.63	0.09
$ \begin{array}{c} \mbox{centrold-Pa} & 0.00 & 1/2 \mbox{ to ce} & 2.53 \\ \mbox{PCS} & A & From & 4.00 & 0.000 & 85.00 & No \mbox{ to ce} & 2.20 \\ \mbox{Centrold-Pa} & 0.00 & 1/2'' \mbox{to ce} & 2.59 \\ \mbox{RH}_60W-PCS & B & From & 4.00 & 0.0000 & 85.00 & No \mbox{ to ce} & 2.20 \\ \mbox{Centrold-Pa} & 0.00 & 1/2'' \mbox{to ce} & 2.39 \\ \mbox{centrold-Pa} & 0.00 & 1/2'' \mbox{to ce} & 2.39 \\ \mbox{centrold-Pa} & 0.00 & 1/2'' \mbox{to ce} & 2.59 \\ \mbox{RH}_60W-PCS & C & From & 4.00 & 0.0000 & 85.00 & No \mbox{ to ce} & 2.59 \\ \mbox{centrold-Pa} & 0.00 & 1/2'' \mbox{to ce} & 2.59 \\ \mbox{centrold-Pa} & 0.00 & 1/2'' \mbox{to ce} & 2.59 \\ \mbox{centrold-Pa} & 0.00 & 1/2'' \mbox{to ce} & 2.54 \\ \mbox{Centrold-Pa} & 0.00 & 1/2'' \mbox{to ce} & 2.54 \\ \mbox{Centrold-Pa} & 0.00 & 1/2'' \mbox{to ce} & 2.54 \\ \mbox{Centrold-Pa} & 0.00 & 1/2'' \mbox{to ce} & 2.54 \\ \mbox{Centrold-Pa} & 0.00 & 1/2'' \mbox{to ce} & 2.54 \\ \mbox{Centrold-Pa} & 0.00 & 1/2'' \mbox{to ce} & 2.54 \\ \mbox{Centrold-Pa} & 0.00 & 1/2'' \mbox{to ce} & 2.57 \\ \mbox{ce c} & 0.00 & 1/2'' \mbox{to ce} & 2.54 \\ \mbox{Centrold-Pa} & 0.00 & 0.0000 & 85.00 & No \mbox{to ce} & 2.54 \\ \mbox{Centrold-Pa} & 0.00 & 1/2'' \mbox{to ce} & 2.54 \\ \mbox{Centrold-Pa} & 0.00 & 1/2'' \mbox{to ce} & 2.54 \\ \mbox{Centrold-Pa} & 0.00 & 1/2'' \mbox{to ce} & 2.54 \\ \mbox{Centrold-Pa} & 0.00 & 1/2'' \mbox{to ce} & 2.54 \\ \mbox{Centrold-Pa} & 0.00 & 1/2'' \mbox{to ce} & 5.07 \\ \mbox{centrold-Pa} & 0.00 & 1/2'' \mbox{to ce} & 5.07 \\ \mbox{centrold-Pa} & 0.00 & 1/2'' \mbox{to ce} & 1.00 \\ \mbox{trold-Pa} & 0.00 & 1/2'' \mbox{to ce} & 5.07 \\ \mbox{to ce} & 0.00 & 1/2'' \mbox{to ce} & 5.07 \\ \mbox{to ce} & 0.00 & 1/2'' \mbox{to ce} & 1.00 \\ \mbox{to centrold-Pa} & 0.00 & 0.0000 & 75.00 & No \mbox{to ce} & 4.80 \\ \mbox{Centrold-Pa} & 0.00 & 1/2'' \mbox{to ce} & 1.90 \\ \mbox{Centrold-Pa} & 0.00 & 1/2'' \mbox{to ce} & 1.90 \\ \mbox{Centrold-Pa} & 0.00 & 1/2'' \mbox{to ce} & 1.90 \\ \mbox{Centrold-Pa} & 0.00 & 1/2'' \mbox{to ce} & 1.90 \\ \mbox{Centrold-Pa} & 0.00 & 1/2'' \mbox{to ce} & 1.90 \\ \mb$	KRH4x30-4K	C	From Controid Fo	4.00	0.0000	85.00	No Ice	2.14	1.31	0.05
$ \begin{array}{cccccc} \mathrm{RH}_{-60W-PCS} & \mathrm{A} & \mathrm{From} & 4.00 & 0.000 & 85.00 & \mathrm{No} \ \mathrm{Ic} & 2.20 & 12^{\circ} \ \mathrm{Ic} & 2.39 & 12^{\circ} \ \mathrm{Ic} & 2.37 & 12^{\circ} \ \mathrm{Ic} & 12^{\circ} \ \mathrm{Ic} & 12^{\circ} \ \mathrm{Ic} & 12^{\circ} \ \mathrm{Ic} & 12^{\circ} \ $			Centrold-Fa	0.00			1/2 ICe	2.55	1.40	0.07
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	RH 60W-PCS	А	From	4 00	0.0000	85.00	No Ice	2.33	1.05	0.09
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		11	Centroid-Fa	0.00	0.0000	05.00	1/2" Ice	2.39	1.52	0.07
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			ce	0.00			1" Ice	2.59	1.68	0.09
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	RH 60W-PCS	В	From	4.00	0.0000	85.00	No Ice	2.20	1.36	0.06
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-		Centroid-Fa	0.00			1/2" Ice	2.39	1.52	0.07
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			ce	0.00			1" Ice	2.59	1.68	0.09
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	RH_60W-PCS	С	From	4.00	0.0000	85.00	No Ice	2.20	1.36	0.06
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			Centroid-Fa	0.00			1/2" Ice	2.39	1.52	0.07
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			ce	0.00			1" Ice	2.59	1.68	0.09
$\begin{array}{cccc} {\rm Centroid-Fa} & 0.00 & & & 1/2" {\rm lce} & 2.75 \\ {\rm ce} & 0.00 & & 1" {\rm lce} & 2.97 \\ {\rm Centroid-Fa} & 0.00 & & 1/2" {\rm lce} & 2.54 \\ {\rm Centroid-Fa} & 0.00 & & 1/2" {\rm lce} & 2.57 \\ {\rm ce} & 0.00 & & 1/2" {\rm lce} & 2.75 \\ {\rm ce} & 0.00 & & 1" {\rm lce} & 2.97 \\ {\rm B66A RRH4X45} & {\rm C} & {\rm From} & 4.00 & 0.0000 & 85.00 & {\rm No \rm lce} & 2.54 \\ {\rm Centroid-Fa} & 0.00 & & 1/2" {\rm lce} & 2.57 \\ {\rm ce} & 0.00 & & 1/2" {\rm lce} & 2.57 \\ {\rm ce} & 0.00 & & 1/2" {\rm lce} & 2.54 \\ {\rm Centroid-Fa} & 0.00 & & 1/2" {\rm lce} & 2.57 \\ {\rm ce} & 0.00 & & 1/2" {\rm lce} & 2.57 \\ {\rm ce} & 0.00 & & 1/2" {\rm lce} & 2.57 \\ {\rm ce} & 0.00 & & 1/2" {\rm lce} & 2.57 \\ {\rm ce} & 0.00 & & 1/2" {\rm lce} & 5.07 \\ {\rm ce} & 0.00 & & 1/2" {\rm lce} & 5.07 \\ {\rm ce} & 0.00 & & 1/2" {\rm lce} & 5.07 \\ {\rm ce} & 0.00 & & 1/2" {\rm lce} & 5.07 \\ {\rm ce} & 0.00 & & 1/2" {\rm lce} & 5.07 \\ {\rm ce} & 0.00 & & 1/2" {\rm lce} & 5.07 \\ {\rm ce} & 0.00 & & 1/2" {\rm lce} & 5.07 \\ {\rm ce} & 0.00 & & 1/2" {\rm lce} & 5.07 \\ {\rm ce} & 0.00 & & 1/2" {\rm lce} & 5.07 \\ {\rm ce} & 0.00 & & 1/2" {\rm lce} & 5.07 \\ {\rm ce} & 0.00 & & 1/2" {\rm lce} & 5.07 \\ {\rm ce} & 0.00 & & 1/2" {\rm lce} & 15.36 \\ {\rm l} 1/2" {\rm lce} & 1.90 \\ {\rm Centroid-Fa} & 0.00 & & {\rm l} 1/2" {\rm lce} & 1.90 \\ {\rm Centroid-Fa} & 0.00 & & {\rm l} 1/2" {\rm lce} & 1.90 \\ {\rm Centroid-Fa} & 0.00 & & {\rm l} 1/2" {\rm lce} & 3.40 \\ {\rm MX08FRO665-20 VOF {\rm w}/ \ A & {\rm From} & 3.00 & 0.0000 & 75.00 & {\rm No lce} & 1.90 \\ {\rm Centroid-Fa} & 0.00 & & {\rm l} 1" {\rm lce} & 3.40 \\ {\rm MX08FRO665-20 VOF {\rm w}/ \ A & {\rm From} & 3.00 & 0.0000 & 75.00 & {\rm No lce} & 12.96 \\ {\rm Mount Pipe} & {\rm ce co.00 & & {\rm l} 1" {\rm lce} & 13.67 \\ {\rm ce co.00 & & {\rm l} 1" {\rm lce} & 13.67 \\ {\rm ce co.00 & & {\rm l} 1" {\rm lce} & 13.67 \\ {\rm ce co.00 & & {\rm l} 1" {\rm lce} & 13.67 \\ {\rm ce co.00 & & {\rm l} 1" {\rm lce} & 13.67 \\ {\rm ce co.00 & & {\rm l} 1" $	B66A RRH4X45	А	From	4.00	0.0000	85.00	No Ice	2.54	1.61	0.06
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			Centroid-Fa	0.00			1/2" Ice	2.75	1.79	0.08
B66A RRH4X45 B From 4.00 0.0000 85.00 No ice 2.34 Centroid-Fa 0.00 1/2" ice 2.75 i i i i i i i 2.75 B66A RRH4X45 C From 4.00 0.0000 85.00 No ice 2.54 Centroid-Fa 0.00 1/2" ice 2.75 i i i i 2.97 DB-T1-6Z-8AB-0Z A From 4.00 0.0000 85.00 No ice 4.80 DB-T1-6Z-8AB-0Z B From 4.00 0.0000 85.00 No ice 4.80 Centroid-Fa 0.00 1/2" ice 5.07 i i ice 5.07 ce 0.00 0.0000 85.00 No ice 4.80 1/2" ice 5.07 with the index i	DCCA DDUANAS	р	ce	0.00	0.0000	05.00	I" Ice	2.97	1.98	0.10
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	B66A RRH4X45	В	From	4.00	0.0000	85.00	No Ice	2.54	1.61	0.06
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			Centroid-Fa	0.00			1/2" Ice	2.75	1.79	0.08
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	DCCA DDUAVA5	C	ce	0.00	0.0000	85.00	I" Ice	2.97	1.98	0.10
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	B00A KKH4A43	C	Controid Fo	4.00	0.0000	83.00	1/2" Loo	2.34	1.01	0.08
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			Centrolu-Fa	0.00			1/2 ICC	2.75	1.79	0.08
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	DB-T1-67-84B-07	Δ	From	4 00	0.0000	85.00	No Ice	4.80	2.00	0.10
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	DD-11-02-0AD-02	А	Centroid-Fa	0.00	0.0000	05.00	1/2" Ice	5.07	2.00	0.04
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			ce	0.00			1" Ice	5.35	2.39	0.12
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	DB-T1-6Z-8AB-0Z	В	From	4.00	0.0000	85.00	No Ice	4.80	2.00	0.04
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		2	Centroid-Fa	0.00	0.0000	00100	1/2" Ice	5.07	2.19	0.08
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			ce	0.00			1" Ice	5.35	2.39	0.12
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	****		N		0.0000	75.00	NT T	10.50	10.56	0.72
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MC-K6M-9-96	А	None		0.0000	75.00	No Ice	12.56	12.56	0.73
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							1/2" Ice	15.36	15.36	0.94
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	(2) 8' x 2 375" Mount Pine	٨	From	3.00	0.0000	75.00	No Ice	18.04	18.04	1.21
$\begin{array}{ccccc} ccccccccccccccccccccccccccccccc$	$(2) \circ x 2.375$ Would Fipe	A	Centroid Fa	0.00	0.0000	75.00	1/2" Ice	2.73	2.73	0.04
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			Centrolu-ra	0.00			172 ICC	3.40	3 40	0.03
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	(2) 8' x 2 375" Mount Pipe	в	From	3.00	0.0000	75.00	No Ice	1.90	1.90	0.04
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	(2) 6 x 2.575 Mount Tipe	Б	Centroid-Fa	0.00	0.0000	75.00	1/2" Ice	2.73	2.73	0.05
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			ce	0.00			1" Ice	3.40	3.40	0.07
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(2) 8' x 2.375" Mount Pipe	С	From	3.00	0.0000	75.00	No Ice	1.90	1.90	0.04
ce 0.00 1" Ice 3.40 MX08FR0665-20_V0F w/ A From 3.00 0.0000 75.00 No Ice 12.96 Mount Pipe Centroid-Fa 0.00 1/2" Ice 13.67 ce 0.00 1" Ice 14.34 1 MX08FR0665-20_V0F w/ B From 3.00 0.0000 75.00 No Ice 12.96 MX08FR0665-20_V0F w/ B From 3.00 0.0000 75.00 No Ice 12.96 Mount Pipe Centroid Fa 0.00 12" Ice 13.67	1		Centroid-Fa	0.00			1/2" Ice	2.73	2.73	0.05
MX08FR0665-20_V0F w/ Mount Pipe A From Centroid-Fa 3.00 0.0000 75.00 No Ice 12.96 Mount Pipe Centroid-Fa 0.00 1/2" Ice 13.67 ce 0.00 1" Ice 14.34 1 MX08FR0665-20_V0F w/ B From 3.00 0.0000 75.00 No Ice 12.96 Mumt Pipe Centroid Fa 0.00 0.0000 75.00 No Ice 12.96			ce	0.00			1" Ice	3.40	3.40	0.07
Mount Pipe Centroid-Fa 0.00 1/2" Ice 13.67 ce 0.00 1" Ice 14.34 1 MX08FR0665-20_V0F w/ B From 3.00 0.0000 75.00 No Ice 12.96 Mount Pipe Controid Fa 0.00 1/2" Ice 13.67	MX08FRO665-20_V0F w/	А	From	3.00	0.0000	75.00	No Ice	12.96	7.77	0.08
ce 0.00 1" Ice 14.34 1 MX08FR0665-20_V0F w/ B From 3.00 0.0000 75.00 No Ice 12.96 Mount Dirac Contraid Eq. 0.00 1/2" Ice 12.7	Mount Pipe		Centroid-Fa	0.00			1/2" Ice	13.67	9.05	0.18
MX08FRO665-20_V0F w/ B From 3.00 0.0000 75.00 No Ice 12.96			ce	0.00			1" Ice	14.34	10.19	0.28
Mount Dina Controid Eq. 0.00 $1/2"$ I - 12.67	MX08FRO665-20_V0F w/	В	From	3.00	0.0000	75.00	No Ice	12.96	7.77	0.08
wount ripe Centroid-ra 0.00 1/2 1ce 13.6/	Mount Pipe		Centroid-Fa	0.00			1/2" Ice	13.67	9.05	0.18
ce 0.00 1" Ice 14.34		~	ce	0.00	0.0000		1" Ice	14.34	10.19	0.28
MX08FRO665-20_V0F w/ C From 3.00 0.0000 75.00 No Ice 12.96	MX08FRO665-20_V0F w/	С	From	3.00	0.0000	75.00	No Ice	12.96	7.77	0.08
Mount Pipe Centroid-Fa 0.00 $1/2"$ Ice 13.67	Mount Pipe		Centroid-Fa	0.00			1/2" Ice	13.67	9.05	0.18
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	() TA00025 DC05	A	ce	0.00	0.0000	75.00	I" Ice	14.34	10.19	0.28
(2) 1AU0023-D003 A From 3.00 0.0000 /5.00 No Ice 1.96 Control E 0.00	(2) IA08023-B003	А	From Controld E-	5.00	0.0000	/5.00	1/2" Log	1.90	1.13	0.08
$\frac{1}{2} \frac{1}{2} \frac{1}$			Centrold-Fa	0.00			1/2 Tee	2.14	1.27	0.09
(2) TA08025_R605 R From 3.00 0.0000 75.00 No. Log 1.06	(2) TA08025 B605	P	From	3.00	0.0000	75.00	No Ice	2.32	1.41	0.11

tnxTower	Job CT1284 / OLD SAYBROOK BOSTON POST RD	Page 6 of 8
GPD 520 South Main Street Suite 2531	Project 2022701.78	Date 08:02:08 02/01/22
Akron, Ohio 44311 Phone: (330) 572-2100 FAX: (330) 572-2101	Client Blue Sky Tower Management	Designed by msteward

Description	Face or Leg	Offset Type	Offsets: Horz Lateral	Azimuth Adjustment	Placement		$C_A A_A$ Front	C _A A _A Side	Weight
	208		Vert ft ft ft	0	ft		ft^2	ft ²	K
		Centroid-Fa	0.00			1/2" Ice	2.14	1.27	0.09
		ce	0.00			1" Ice	2.32	1.41	0.11
(2) TA08025-B605	С	From	3.00	0.0000	75.00	No Ice	1.96	1.13	0.08
		Centroid-Fa	0.00			1/2" Ice	2.14	1.27	0.09
		ce	0.00			1" Ice	2.32	1.41	0.11
RDIDC-9181-PF-48	А	From	3.00	0.0000	75.00	No Ice	2.56	1.34	0.02
		Centroid-Fa	0.00			1/2" Ice	2.76	1.49	0.04
		ce	0.00			1" Ice	2.97	1.66	0.07

Maximum Tower Deflections - Service Wind

Section	Elevation	Horz.	Gov.	Tilt	Twist
No.		Deflection	Load		
	ft	in	Comb.	0	0
L1	99 - 48.5	7.157	48	0.5805	0.0005
L2	53.25 - 0	2.200	48	0.3798	0.0002

Critical Deflections and Radius of Curvature - Service Wind

Elevation	Appurtenance	Gov.	Deflection	Tilt	Twist	Radius of
		Load				Curvature
ft		Comb.	in	0	0	ft
97.00	T-Arm Mount [TA 602-3]	48	6.910	0.5730	0.0005	54062
95.00	DC6-48-60-18-8F Surge	48	6.662	0.5655	0.0004	54062
	Suppression Unit					
93.00	T-Arm Mount [TA 602-3]	48	6.416	0.5580	0.0004	45052
85.00	EEI K10994A [LP 302-1]	48	5.444	0.5271	0.0004	19308
75.00	MC-K6M-9-96	48	4.287	0.4862	0.0003	11263

Maximum Tower Deflections - Design Wind

Section	Elevation	Horz.	Gov.	Tilt	Twist
No.		Deflection	Load		
	ft	in	Comb.	0	0
L1	99 - 48.5	34.822	20	2.8257	0.0023
L2	53.25 - 0	10.704	20	1.8481	0.0009

Critical Deflections and Radius of Curvature - Design Wind

Elevation	Appurtenance	Gov. Load	Deflection	Tilt	Twist	Radius of Curvature
ft		Comb.	in	0	0	ft
97.00	T-Arm Mount [TA 602-3]	20	33.617	2.7891	0.0022	11151

	Job	Page
<i>tnx1ower</i>	CT1284 / OLD SAYBROOK BOSTON POST RD	7 of 8
CPD	Project	Date
520 South Main Street Suite 2531	2022701.78	08:02:08 02/01/22
Akron, Ohio 44311 Phone: (330) 572-2100 FAX: (330) 572-2101	Client Blue Sky Tower Management	Designed by msteward

Elevation	Appurtenance	Gov. Load	Deflection	Tilt	Twist	Radius of Curvature
ft		Comb.	in	0	0	ft
95.00	DC6-48-60-18-8F Surge	20	32.414	2.7524	0.0022	11151
	Suppression Unit					
93.00	T-Arm Mount [TA 602-3]	20	31.214	2.7156	0.0021	9292
85.00	EEI K10994A [LP 302-1]	20	26.485	2.5656	0.0018	3982
75.00	MC-K6M-9-96	20	20.859	2.3664	0.0015	2322

Compression Checks

Pole Design Data									
Section No.	Elevation	Size	L	Lu	Kl/r	A	P_u	ϕP_n	Ratio P_u
	ft		ft	ft		in^2	Κ	K	ϕP_n
L1 L2	99 - 48.5 (1) 48.5 - 0 (2)	TP34.15x22.14x0.25 TP45.2x32.5203x0.3125	50.50 53.25	$\begin{array}{c} 0.00\\ 0.00 \end{array}$	0.0 0.0	26.0033 44.5228	-14.04 -23.98	1521.19 2604.58	0.009 0.009

Pole Bending Design Data

Section	Elevation	Size	M _{ux}	ϕM_{nx}	Ratio	M _{uy}	ϕM_{ny}	Ratio
No.					M_{ux}			M_{uy}
	ft		kip-ft	kip-ft	ϕM_{nx}	kip-ft	kip-ft	ϕM_{ny}
L1	99 - 48.5 (1)	TP34.15x22.14x0.25	500.69	1184.53	0.423	0.00	1184.53	0.000
L2	48.5 - 0 (2)	TP45.2x32.5203x0.3125	1397.24	2683.70	0.521	0.00	2683.70	0.000

Pole Shear Design Data

Section	Elevation	Size	Actual V	ϕV_n	Ratio V	Actual T	ϕT_n	Ratio T
<i>NO</i> .	ft		K^{ν_u}	Κ	ϕV_n	kip-ft	kip-ft	$\frac{T_u}{\phi T_n}$
L1 L2	99 - 48.5 (1) 48.5 - 0 (2)	TP34.15x22.14x0.25 TP45.2x32.5203x0.3125	15.36 18.31	456.36 781.38	0.034 0.023	0.28 0.24	1309.68 3071.60	$\begin{array}{c} 0.000\\ 0.000 \end{array}$

Pole Interaction Design Data

Section	Elevation	Ratio	Ratio	Ratio	Ratio	Ratio	Comb.	Allow.	Criteria
No.		P_u	M_{ux}	M_{uy}	V_u	T_u	Stress	Stress	
	ft	ϕP_n	ϕM_{nx}	ϕM_{ny}	ϕV_n	ϕT_n	Ratio	Ratio	
L1	99 - 48.5 (1)	0.009	0.423	0.000	0.034	0.000	0.433	1.000	4.8.2
L2	48.5 - 0 (2)	0.009	0.521	0.000	0.023	0.000	0.530	1.000	4.8.2

CT1284 / OLD SAYBROOK BOSTON POST RD

Job

Project

Client

2022701.78

Date 08:02:08 02/01/22

520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (330) 572-2100 FAX: (330) 572-2101

Blue Sky Tower Management

Designed by msteward

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	${}^{ heta P_{allow}}_{K}$	% Capacity	Pass Fail
L1	99 - 48.5	Pole	TP34.15x22.14x0.25	1	-14.04	1521.19	43.3	Pass
L2	48.5 - 0	Pole	TP45.2x32.5203x0.3125	2	-23.98	2604.58	53.0	Pass
						Summary	ELC:	Existing + Proposed
						Pole (L2)	53.0	Pass
						Rating =	53.0	Pass

APPENDIX C

Additional Calculations



Anchor Rod and Base Plate Stresses, TIA-222-H-1 Old Saybrook, Boston Post Road (CT-1263) 2022701.78

Overturning Moment =	1307 00	k*ft
Overturning Moment -	1397.00	K IL
Axial Force =	24.00	k
Shear Force =	18.00	k

Maximum Capacity	100%
Apply TIA-222-H Section 15.5?	No

Anchor Ro	Anchor Rods	
Pole Diameter =	45.2	in
Number of Rods =	12	
Rod Yield Strength, F _y =	75	ksi
Rod Ultimate Strength, F_u =	100	ksi
Rod Circle =	51.25	in
Rod Diameter =	2.25	in
Rod Projection, I _{ar} =	2.25	in
Is grout present?	No	
Max Tension on Rod, P _{ut} =	106.93	k
Max Compression on Rod, P_{uc} =	110.93	k
Shear on Rod, V_u =	1.50	k
Moment on Rod, M_u =	0.00	k-in
Tension Interaction =	19.3%	OK
Compression Interaction =	41.3%	OK

Base Plate		
Plate Yield Strength, F _y =	50	ksi
φ =	0.9	
Plate Thickness =	2.5	in
Plate Width =	49.75	in
Est. Dist. b/w ea. Rod =	6	in
w _{calc} =	36.92	in
w _{max} =	25.16	in
w =	25.16	in
Z =	39.31	in ³
M _u =	836.97	k-in
φM _n =	1768.86	k-in
Base Plate Capacity =	47.3%	ОК



GPD Unstiffened Square Base Plate Stress (Rev H) - V1.1

Pier and Pad Foundation

Site # :	CT1284
Site Name:	OLD SAYBROOK E

TIA-222 Revision: H Tower Type: Monopole

Top & Bot. Pad Rein. Different?:	
Block Foundation?:	
Rectangular Pad?:	

Superstructure Analysis Reactions Compression, P_{comp}: 24 kips Base Shear, Vu_comp: 18 kips Moment, Mu: 1397 ft-kips Tower Height, H: 99 ft BP Dist. Above Fdn, bp_{dist}: 3 in

Pier Properties		
Pier Shape:	Square	
Pier Diameter, dpier :	6	ft
Ext. Above Grade, E:	0.5	ft
Pier Rebar Size, Sc :	8	
Pier Rebar Quantity, mc :	26	
Pier Tie/Spiral Size, St:	4	
Pier Tie/Spiral Quantity, mt :		
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc _{pier} :	3	in

Pad Properties		
Depth, D:	6	ft
Pad Width, W ₁ :	20.5	ft
Pad Thickness, T :	1.5	ft
Pad Rebar Size (Bottom dir. 2), Sp ₂ :	8	
Pad Rebar Quantity (Bottom dir. 2), mp ₂ :	26	
Pad Clear Cover, cc_{pad}:	3	in

Material Properties		
Rebar Grade, Fy :	60	ksi
Concrete Compressive Strength, F'c:	4.5	ksi
Dry Concrete Density, δc :	150	pcf

Soil Properties		
Total Soil Unit Weight, γ :	125	pcf
Ultimate Gross Bearing, Qult:	8.000	ksf
Cohesion, Cu :		ksf
Friction Angle, φ :	34	degrees
SPT Blow Count, N _{blows} :		
Base Friction, μ :		
Neglected Depth, N:	3.50	ft
Foundation Bearing on Rock?		
Groundwater Depth, gw:	5	ft

Foundation Analysis Checks				
	Capacity	Demand	Rating	Check
Lateral (Sliding) (kips)	153.24	18.00	11.7%	Pass
Bearing Pressure (ksf)	6.00	2.16	36.0%	Pass
Overturning (kip*ft)	2916.14	1518.50	52.1%	Pass
Pier Flexure (Comp.) (kip*ft)	2913.60	1487.00	51.0%	Pass
Pier Compression (kip)	25777.44	56.40	0.2%	Pass
Pad Flexure (kip*ft)	1187.28	503.25	42.4%	Pass
Pad Shear - 1-way (kips)	334.17	107.43	32.1%	Pass
Pad Shear - 2-way (Comp) (ksi)	0.201	0.063	31.3%	Pass
Flexural 2-way (Comp) (kip*ft)	1204.34	892.20	74.1%	Pass

Structural Rating:	74.1%
Soil Rating:	52.1%

<--Toggle between Gross and Net

Exhibit E

Mount Analysis

INFINIGY8

MOUNT ANALYSIS REPORT

December 6, 2021

Dish Wireless Site Name	Oct – Boston Post Rd
Dish Wireless Site Number	BOBDL00113A
Infinigy Job Number	1197-F0001-B
Client	NSS
Carrier	Dish Wireless
	1363 Boston Post Rd
	Old Saybrook, CT 06475
Site Location	Middlesex County
	41° 17' 23.2" N NAD83
	72° 24' 21.2" W NAD83
Mount Type	6.5 ft T-Arms
Mount Elevation	75.0 ft AGL
Structural Usage Ratio	59.4
Overall Result	Pass

The enclosed mount structural analysis has been performed in accordance with the 2018 Connecticut State Building Code (2015 IBC) based on an ultimate 3-second gust wind speed of 125 mph. The evaluation criteria and applicable codes are presented in the next section of this report.



December 6, 2021

CONTENTS

- 1. Introduction
- 2. Design/Analysis Parameters
- 3. Proposed Loading Configuration
- 4. Supporting Documentation
- 5. Results
- 6. Recommendations
- 7. Assumptions
- 8. Liability Waiver and Limitations
- 9. Calculations

December 6, 2021

1. INTRODUCTION

Infinigy performed a structural analysis on the Dish Wireless proposed telecommunication equipment supporting T-Arms mounted to the existing structure located at the aforementioned address. All referenced supporting documents have been obtained from the client and are assumed to be accurate and applicable to this site. The mount was analyzed using Risa-3D version 17.0.4 analysis software.

2. DESIGN/ANALYSIS PARAMETERS

Wind Speed	125 mph (3-Second Gust)	
Wind Speed w/ ice	50 mph (3-Second Gust) w/ 1.0" ice	
Code / Standard	TIA-222-H	
Adopted Code	2018 Connecticut State Building Code (2015 IBC)	
Risk Category		
Exposure Category	С	
Topographic Category	1	
Calculated Crest Height	0 ft.	
Seismic Spectral Response	$S_s = 0.202 \text{ g} / S_1 = 0.053 \text{ g}$	
Live Load Wind Speed	60 mph	
Man Live Load at Mid/End Points	250 lbs	
Man Live Load at Mount Pipes	500 lbs	

3. PROPOSED LOADING CONFIGURATION - 75.0 ft. AGL T-Arms

Antenna Centerline (ft)	Qty.	Appurtenance Manufacturers	Appurtenance Models
75.0	3	JMA WIRELESS	MX08FRO665-21
	3	FUJITSU	TA08025-B605
	3	FUJITSU	TA08025-B604
	1	RAYCAP	RDIDC-3045-PF-48

4. SUPPORTING DOCUMENTATION

Proposed Loading	ding Dish Wireless Asset ID CT-OCT-T-CT1263 Rev 2, Site #BOHVN00148A, dated September 23, 2021	
Mount Manufacturer Drawings	Commscope T-Arm MC-K6M-9-96	
Construction Drawings	Infinigy Engineering, PLLC Project #1197-F0001-C, Site ID: BOBDL00113A dated September 23, 2021	

5. RESULTS

Components	Capacity	Pass/Fail
Mount Pipes	59.4%	Pass
Horizontals	46.4%	Pass
Standoffs	24.3%	Pass
Connections	19.4%	Pass
MOUNT RATING =	59.4 %	Pass

Notes:

1. See additional documentation in Appendix for calculations supporting the capacity consumed and detailed mount connection calculations.

6. RECOMMENDATIONS

Infinigy recommends installing Dish Wireless's proposed equipment loading configuration on the mount at 75.0 ft. The installation shall be performed in accordance with the construction documents issued for this site.

Pradin Suinyal Magar Project Engineer II | INFINIGY December 6, 2021

7. ASSUMPTIONS

The antenna mounting system was properly fabricated, installed and maintained in accordance with				
its original design and manufacturer's specifications.				
The configuration of antennas, mounts, and other appurtenances are as specified in the proposed				
loading configuration table.				
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.				
The analysis will require revisions if the existing conditions in the field differ from those shown in the				
above-referenced documents or assumed in this analysis. No allowance was made for any				
damaged, missing, or rusted members.				
Steel grades have been assumed as follows, unless noted otherwise:				
Channel, Solid Round, Plate, Built-up Angle	ASTM A36 KSI			
Structural Angle	ASTM A529 Gr. 50			
HSS (Rectangular)	ASTM A500 Gr C			
HSS (Circular)	ASTM A500-B GR 42			
Pipe	ASTM A500 Gr C			
Connection Bolts	ASTM A325			
U-Bolts	ASTM A307			
All bolted connections are pretensioned in accordance with Table 8.2 of the RCSC 2014 Standard				

8. LIABILITY WAIVER AND LIMITATIONS

Our structural calculations are completed assuming all information provided to Infinigy is accurate and applicable to this site. For the purposes of calculations, we assume an overall structure condition as erected and all members and connections to be free of corrosion and/or structural defects. The structure owner and/or contractor shall verify the structure's condition prior to installation of any proposed equipment. If actual conditions differ from those described in this report, Infinigy should be notified immediately to assess the impact on the results of this report.

Our evaluation is completed using industry standard methods and procedures. The structural results, conclusions and recommendations contained in this report are proprietary and should not be used by others as their own. Infinigy is not responsible for decisions made by others that are or are not based on the stated assumptions and conclusions in this report.

This report is an evaluation of the mount structure only and does not determine the adequacy of the supporting structure, other carrier mounts or cable mounting attachments. The analysis of these elements is outside the scope of this analysis, are assumed to be adequate for the purpose of this report and to have been installed per their manufacturer requirements. This document is not for construction purposes.














Program Inputs

PROJECT INFORMATION									
Client:	NSS Solutions								
Carrier:	Dish Wireless								
Engineer:	Pradin Suyinal Magar, M.								

SITE INFORMATION									
Risk Category:	=								
Exposure Category:	С								
Topo Factor Procedure:	Method 1, Category								
Site Class:	D - Stiff Soil (Assume								
Ground Elevation:	8.16	ft *Rev H							

MOUNT INFORMATION										
Mount Type:	T-Arm									
Num Sectors:	3									
Centerline AGL:	75.00	ft								
Tower Height AGL:	99.00	ft								

TOPOGRAPHIC DATA										
Topo Feature:	N	/A								
Slope Distance:	N/A	ft								
Crest Distance:	N/A	ft								
Crest Height:	N/A	ft								

FACTORS										
Directionality Fact. (K _d):	0.950									
Ground Ele. Factor (K _e):	1.000	*Rev H Only								
Rooftop Speed-Up (K _s):	1.000	*Rev H Only								
Topographic Factor (K _{zt}):	1.000									
Gust Effect Factor (G _h):	1.000									

CODE STANDARDS											
Building Code:	2015 IBC										
TIA Standard:	TIA-222-H										
ASCE Standard:	ASCE 7-16										

WIND AND ICE DATA										
Ultimate Wind (V _{ult}):	125	mph								
Design Wind (V):	N/A	mph								
Ice Wind (V _{ice}):	50	mph								
Base Ice Thickness (t _i):	1	in								
Flat Pressure:	90.508	psf								
Round Pressure:	54.305	psf								
Ice Wind Pressure:	8.689	psf								

SEISMI	C DATA	
Short-Period Accel. (S _s):	0.202	g
1-Second Accel. (S ₁):	0.053	g
Short-Period Design (S _{DS}):	0.215	
1-Second Design (S _{D1}):	0.085	
Short-Period Coeff. (F _a):	1.600	
1-Second Coeff. (F _v):	2.400	
Amplification Factor (A _s):	3.000	
Response Mod. Coeff. (R):	2.000	



Infinigy Load Calculator V2.1.7

Program Inputs







Infinigy Load Calculator V2.1.7

APPURTENANCE INFORMATION											
Appurtenance Name	Elevation	Qty.	K _a	q _z (psf)	EPA _N (ft ²)	EPA _T (ft ²)	Wind F _z (lbs)	Wind F _x (lbs)	Weight (lbs)	Seismic F (lbs)	Member (α sector)
JMA WIRELESS MX08FRO665-21	75.0	3	0.90	45.25	8.01	3.21	326.23	130.74	82.50	26.66	MP1
FUJITSU TA08025-B605	75.0	3	0.90	45.25	1.96	1.19	79.97	48.43	74.95	24.22	MP1
FUJITSU TA08025-B604	75.0	3	0.90	45.25	1.96	1.03	79.97	42.07	63.93	20.66	MP1
RAYCAP RDIDC-3045-PF-48	75.0	3	0.90	45.25	2.01	1.17	47.61	82.05	21.85	7.06	S1



Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(Section/Shape Type Design List		Material	Design Rules	
1	S1	P1	P2		·	4X4X.25	Beam	None	A500 Gr. C	Typical
2	H1	P3	P4			3.50DX.165	Beam	None	A500 Gr. C	Typical
3	M3	P6	P5			4.5" Pipe	Beam	None	A500 Gr. C	Typical
4	MP1	P10	P12			2.3750DX.12	Beam	None	A500 Gr. C	Typical
5	MP3	P9	P11			2.3750DX.12	Beam	None	A500 Gr. C	Typical
6	MP2	P17	P16			2.3750DX.12	Beam	None	A500 Gr. C	Typical
7	M7	P7	P13			RIGID	None	None	RIGID	Typical
8	M8	P15	P2			RIGID	None	None	RIGID	Typical
9	M9	P8	P14			RIGID	None	None	RIGID	Typical

Hot Rolled Steel Design Parameters

	Label	Shape	Lengt	Lbyy[in]	Lbzz[in]	Lcomp t	Lcomp b	L-tor	. Kyy	Kzz	Cb	Func
1	S1	4X4X.25	38			Lbyy						Late
2	H1	3.50DX.165	78			Lbyy						Late
3	M3	4.5" Pipe	18			Lbyy						Late
4	MP1	2.3750DX.12	96			Lbyy						Late
5	MP3	2.3750DX.12	96			Lbyy						Late
6	MP2	2.3750DX.12	96			Lbyy						Late

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Ra.	Analysis	Inactive	Seismi
1	S1						Yes				None
2	H1						Yes				None
3	M3						Yes				None
4	MP1						Yes				None
5	MP3						Yes				None
6	MP2						Yes				None
7	M7						Yes	** NA **			None
8	M8						Yes	** NA **			None
9	M9						Yes	** NA **			None

Material Takeoff

	Material	Size	Pieces	Length[in]	Weight[LB]
1	General				
2	RIGID		3	6	0
3	Total General		3	6	0
4					



Material Takeoff (Continued)

	Material	Size	Pieces	Length[in]	Weight[LB]
5	Hot Rolled Steel				
6	A500 Gr. C	2.3750DX.12	3	288	69.426
7	A500 Gr. C	3.50DX.165	1	78	38.236
8	A500 Gr. C	4X4X.25	1	38	40.408
9	A500 Gr. C	PIPE 4.5 OD x 0.188	1	18	12.999
10	Total HR Steel		6	422	161.069

Hot Rolled Steel Section Sets

	Label	Shape	Туре	Design List	Material	Design	. A [in2]	lyy [in	.lzz [in	. J [in4]
1	4.5" Pipe	PIPE 4.5 OD x 0.188	Beam	None	A500 G	Typical	2.547	5.93	5.93	11.861
2	3.50DX.165	3.50DX.165	Beam	None	A500 G	Typical	1.729	2.409	2.409	4.819
3	2.3750DX.12	2.3750DX.12	Beam	None	A500 G	Typical	.85	.542	.542	1.084
4	4X4X.25	4X4X.25	Beam	None	A500 G	Typical	3.75	8.828	8.828	13.184

Basic Load Cases

	BLC Description	Category	X Gr	Y Gr	<u>Z Gr</u>	Joint	Point	Distributed	Area(Memb	Surface(Plate/Wall)
1	Self Weight	DL		-1			5			
2	Wind Load AZI 0	WLZ					10			
3	Wind Load AZI 30	None					10			
4	Wind Load AZI 60	None					10			
5	Wind Load AZI 90	WLX					10			
6	Wind Load AZI 1	None					10			
7	Wind Load AZI 1	None					10			
8	Wind Load AZI 1	None					10			
9	Wind Load AZI 2	None					10			
10	Wind Load AZI 2	None					10			
11	Wind Load AZI 2	None					10			
12	Wind Load AZI 3	None					10			
13	Wind Load AZI 3	None					10			
14	Distr. Wind Load Z	WLZ						9		
15	Distr. Wind Load X	WLX						9		
16	Ice Weight	OL1					5	9		
17	Ice Wind Load A	OL2					10			
18	Ice Wind Load A	None					10			
19	Ice Wind Load A	None					10			
20	Ice Wind Load A	OL3					10			
21	Ice Wind Load A	None					10			
22	Ice Wind Load A	None					10			
23	Ice Wind Load A	None					10			



Basic Load Cases (Continued)

	BLC Description	Category	X Gr	Y Gr	<u>Z Gr</u>	Joint	Point	Distributed	Area(Memb	Surface(Plate/Wall)
24	Ice Wind Load A	None					10			
25	Ice Wind Load A	None					10			
26	Ice Wind Load A	None					10			
27	Ice Wind Load A	None					10			
28	Ice Wind Load A	None					10			
29	Distr. Ice Wind L	OL2						9		
30	Distr. Ice Wind L	OL3						9		
31	Seismic Load Z	ELZ			323		5			
32	Seismic Load X	ELX	323				5			
33	Service Live Loa	LL				1				
34	Maintenance Loa	· LL				1				
35	Maintenance Loa	· LL				1				
36	Maintenance Loa	· LL				1				

Load Combinations

	Description	S	P	. <u>S</u> I	3	. <u>Fa</u>	.B	Fa	.B	.Fa	. <u>B</u>	.Fa	.B	.Fa	.B	Fa	.B	.Fa	.B	.Fa	.B	Fa	B	Fa
1	1.4DL	Y	Υ		1	1.4																		
2	1.2DL + 1WL AZI 0	Y	Y		1	1.2	2	1	14	1	15													
3	1.2DL + 1WL AZI 30	Y	Y		1	1.2	3	1	14	.866	15	.5												
4	1.2DL + 1WL AZI 60	Y	Y		1	1.2	4	1	14	.5	15	.866												
5	1.2DL + 1WL AZI 90	Y	Y		1	1.2	5	1	14		15	1												
6	1.2DL + 1WL AZI 120	Y	Y		1	1.2	6	1	14	5	15	.866	i											
7	1.2DL + 1WL AZI 150	Y	Y		1	1.2	7	1	14	8	15	.5												
8	1.2DL + 1WL AZI 180	Y	Y		1	1.2	8	1	14	-1	15													
9	1.2DL + 1WL AZI 210	Y	Y		1	1.2	9	1	14	8	15	5												
10	1.2DL + 1WL AZI 240	Y	Y		1	1.2	10	1	14	5	15	8	•											
11	1.2DL + 1WL AZI 270	Y	Y		1	1.2	11	1	14		15	-1												
12	1.2DL + 1WL AZI 300	Y	Y		1	1.2	12	1	14	.5	15	8	-											
13	1.2DL + 1WL AZI 330	Y	Y		1	1.2	13	1	14	.866	15	5												
14	0.9DL + 1WL AZI 0	Y	Y		1	.9	2	1	14	1	15													
15	0.9DL + 1WL AZI 30	Y	Y		1	.9	3	1	14	.866	15	.5												
16	0.9DL + 1WL AZI 60	Y	Y		1	.9	4	1	14	.5	15	.866	i											
17	0.9DL + 1WL AZI 90	Y	Y		1	.9	5	1	14		15	1												
18	0.9DL + 1WL AZI 120	Y	Y		1	.9	6	1	14	5	15	.866	6											
19	0.9DL + 1WL AZI 150	Y	Y		1	.9	7	1	14	8	15	.5												
20	0.9DL + 1WL AZI 180	Y	Y		1	.9	8	1	14	-1	15													
21	0.9DL + 1WL AZI 210	Y	Y		1	.9	9	1	14	8	15	5												
22	0.9DL + 1WL AZI 240	Y	Y		1	.9	10	1	14	5	15	8	•											
23	0.9DL + 1WL AZI 270	Y	Y		1	.9	11	1	14		15	-1												
24	0.9DL + 1WL AZI 300	Y	Y		1	.9	12	1	14	.5	15	8												
25	0.9DL + 1WL AZI 330	Y	Y		1	.9	13	1	14	.866	15	5												



Load Combinations (Continued)

	Description	S	.P	.s	B	.Fa	.B	Fa	В	Fa	В	Fa	.В	FaB	.Fa	В	Fa	.В	Fa	.В	Fa	В	Fa
26	1.2D + 1.0Di	Y	Y		1	1.2	16	1															
27	1.2D + 1.0Di +1.0Wi AZI 0	Y	Y		1	1.2	16	1	17	1	29	1	30										
28	1.2D + 1.0Di +1.0Wi AZI 30	Y	Y		1	1.2	16	1	18	1	29	.866	30	.5									
29	1.2D + 1.0Di +1.0Wi AZI 60	Y	Y		1	1.2	16	1	19	1	29	.5	30	.866									
30	1.2D + 1.0Di +1.0Wi AZI 90	Y	Y		1	1.2	16	1	20	1	29		30	1									
31	1.2D + 1.0Di +1.0Wi AZI 120	Y	Y		1	1.2	16	1	21	1	29	5	30	.866									
32	1.2D + 1.0Di +1.0Wi AZI 150	Y	Y		1	1.2	16	1	22	1	29	8	.30	.5									
33	1.2D + 1.0Di +1.0Wi AZI 180	Y	Y		1	1.2	16	1	23	1	29	-1	30										
34	1.2D + 1.0Di +1.0Wi AZI 210	Y	Y		1	1.2	16	1	24	1	29	8	30	5									
35	1.2D + 1.0Di +1.0Wi AZI 240	Y	Y		1	1.2	16	1	25	1	29	5	30	8									
36	1.2D + 1.0Di +1.0Wi AZI 270	Y	Y		1	1.2	16	1	26	1	29		30	-1									
37	1.2D + 1.0Di +1.0Wi AZI 300	Y	Y		1	1.2	16	1	27	1	29	.5	30	8									
38	1.2D + 1.0Di +1.0Wi AZI 330	Y	Y		1	1.2	16	1	28	1	29	.866	30	5									
39	(1.2 + 0.2Sds)DL + 1.0E AZI 0	Y	Y		1	1.2.	.31	1	32														
40	(1.2 + 0.2Sds)DL + 1.0E AZI 30)Y	Y		1	1.2.	.31	.866	32	.5													
41	(1.2 + 0.2Sds)DL + 1.0E AZI 60)Y	Y		1	1.2.	.31	.5	32	.866													
42	(1.2 + 0.2Sds)DL + 1.0E AZI 90)Y	Y		1	1.2.	.31		32	1													
43	(1.2 + 0.2Sds)DL + 1.0E AZI 1.	.Y	Υ		1	1.2.	.31	5	32	.866													
44	(1.2 + 0.2Sds)DL + 1.0E AZI 1.	.Y	Y		1	1.2.	.31	8	32	.5													
45	(1.2 + 0.2Sds)DL + 1.0E AZI 1.	.Y	Y		1	1.2.	.31	-1	32														
46	(1.2 + 0.2Sds)DL + 1.0E AZI 2.	.Y	Y		1	1.2.	.31	8	32	5													
47	(1.2 + 0.2Sds)DL + 1.0E AZI 2.	.Y	Y		1	1.2.	.31	5	32	8													
48	(1.2 + 0.2Sds)DL + 1.0E AZI 2.	.Y	Y		1	1.2.	.31		32	-1													
49	(1.2 + 0.2Sds)DL + 1.0E AZI 3.	.Y	Y		1	1.2.	.31	.5	32	8													
50	(1.2 + 0.2Sds)DL + 1.0E AZI 3.	.Y	Υ		1	1.2.	.31	.866	32	- 5													
51	(0.9 - 0.2Sds)DL + 1.0E AZI 0	Y	Ý		1	.857	31	1	32														
52	(0.9 - 0.2Sds)DL + 1.0E AZI 30	Y	Ŷ		1	.857	31	.866	32	.5													
53	(0.9 - 0.2Sds)DL + 1.0E AZI 60	Y	Ý		1	.857	31	5	32	.866													
54	(0.9 - 0.2Sds)DL + 1.0E AZI 90	Y	Y		1	.857	31	.0	32	1													
55	(0.9 - 0.2Sds)DL + 1.0E AZI 1	.Y	Y		1	.857	31	- 5	32	.866													
56	(0.9 - 0.2Sds)DL + 1.0E AZI 1	.Y	Y		1	.857	31	8	32	5													
57	(0.9 - 0.2Sds)DL + 1.0E AZI 1	.Y	Ŷ		1	.857	31	-1	32														
58	(0.9 - 0.2Sds)DL + 1.0E AZI 2	.Y	Y		1	.857	31	8	32	- 5													
59	(0.9 - 0.2Sds)DL + 1.0E AZI 2	Y	Ý		1	.857	31	- 5	32	8													
60	(0.9 - 0.2Sds)DL + 1.0E AZI 2	.Y	Y		1	.857	31	.0	32	-1													
61	(0.9 - 0.2Sds)DL + 1.0E AZI 3	Y	Y		1	.857	31	5	32	8													
62	(0.9 - 0.2Sds)DL + 1.0E AZI 3	.Y	Y		1	.857	31	.866	32	- 5													
63	1.0DL + 1.5LL + 1.0SWL (60	Y	V		1	1	2	.23	14	.23	15		33	1.5									
64	1.0DL + 1.5LL + 1.0SWL (60	Y			1	1	2	.23	14	2	15	.115	33	1.5									
65	1.0DL + 1.5LL + 1.0SWL (60	Y	V		1	1	1	.23	14	.115	15	2	33	1.5									
66	1.0DL + 1.5LL + 1.0SWL (60	Y			1	1	4	.23	14		15	.23	33	1.5									
67	1.0DI + 1.5II + 1.0SWI (60	Y			1	1	6	.23	14	- 1	15	<u> </u>	33	1.5									
01			Ĩ		I		U	.20	· T			.2											

 RISA-3D Version 17.0.4
 [C:\...\...\...\...\...\BOBDL00113A_loaded.r3d]
 Page 4



Load Combinations (Continued)

	Description	S	P	. <u>S</u>	B	.Fa	.В	Fa	В	Fa	В	Fa	В	Fa	В	Fa	B	Fa	.В	Fa	.В	Fa	<u>В</u>	<u>Fa</u>
68	1.0DL + 1.5LL + 1.0SWL (60	Y	Y		1	1	7	.23	14	2	15	.115	33	1.5										
69	1.0DL + 1.5LL + 1.0SWL (60	Y	Y		1	1	8	.23	14	23	15		33	1.5										
70	1.0DL + 1.5LL + 1.0SWL (60	Y	Y		1	1	9	.23	14	2	15	1	.33	1.5										
71	1.0DL + 1.5LL + 1.0SWL (60	Y	Y		1	1	10	.23	14	1	15	2	33	1.5										
72	1.0DL + 1.5LL + 1.0SWL (60	Y	Y		1	1	11	.23	14		15	23	33	1.5										
73	1.0DL + 1.5LL + 1.0SWL (60	Y	Y		1	1	12	.23	14	.115	15	2	33	1.5										
74	1.0DL + 1.5LL + 1.0SWL (60	Y	Y		1	1	13	.23	14	.2	15	1	.33	1.5										
75	1.2DL + 1.5LL	Y	Y		1	1.2	33	1.5																
76	1.2DL + 1.5LM-MP1 + 1SWL (.	.Y	Y		1	1.2	34	1.5	2	.058	14	.058	15											
77	1.2DL + 1.5LM-MP1 + 1SWL (.	.Y	Υ		1	1.2	34	1.5	3	.058	14	.05	15	.029										
78	1.2DL + 1.5LM-MP1 + 1SWL (.	.Y	Υ		1	1.2	34	1.5	4	.058	14	.029	15	.05										
79	1.2DL + 1.5LM-MP1 + 1SWL (.	.Y	Y		1	1.2	34	1.5	5	.058	14		15	.058										
80	1.2DL + 1.5LM-MP1 + 1SWL (.	.Y	Y		1	1.2	34	1.5	6	.058	14	0	15	.05										
81	1.2DL + 1.5LM-MP1 + 1SWL (.	.Y	Y		1	1.2	34	1.5	7	.058	14	05	15	.029										
82	1.2DL + 1.5LM-MP1 + 1SWL (.	.Y	Y		1	1.2	34	1.5	8	.058	14	0	15											
83	1.2DL + 1.5LM-MP1 + 1SWL (.	.Y	Y		1	1.2	34	1.5	9	.058	14	05	15	0										
84	1.2DL + 1.5LM-MP1 + 1SWL (.	.Y	Y		1	1.2	34	1.5	10	.058	14	0	15	05										
85	1.2DL + 1.5LM-MP1 + 1SWL (.	.Y	Υ		1	1.2	34	1.5	11	.058	14		15	0										
86	1.2DL + 1.5LM-MP1 + 1SWL (.	.Y	Y		1	1.2	34	1.5	12	.058	14	.029	15	05										
87	1.2DL + 1.5LM-MP1 + 1SWL (.	.Y	Ý		1	1.2	34	1.5	13	.058	14	.05	15	0										
88	1.2DL + 1.5LM-MP2 + 1SWL (.	.Y	Y		1	1.2	35	1.5	2	.058	14	.058	15											
89	1.2DL + 1.5LM-MP2 + 1SWL (.	.Y	Y		1	1.2	35	1.5	3	.058	14	.05	15	.029										
90	1.2DL + 1.5LM-MP2 + 1SWL (.	.Y	Ý		1	1.2	35	1.5	4	.058	14	.029	15	.05										
91	1.2DL + 1.5LM-MP2 + 1SWL (.	.Y	Ý		1	1.2	35	1.5	5	.058	14		15	.058										
92	1.2DL + 1.5LM-MP2 + 1SWL (.	.Y	Ŷ		1	1.2	35	1.5	6	.058	14	0	15	.05										
93	1.2DL + 1.5LM-MP2 + 1SWL (.	.Y	Ŷ		1	1.2	35	1.5	7	.058	14	05	15	.029										
94	1.2DL + 1.5LM-MP2 + 1SWL (.	.Y	Y		1	1.2	35	1.5	8	.058	14	0	15											
95	1.2DL + 1.5LM-MP2 + 1SWL (.	.Y	Ŷ		1	1.2	35	1.5	9	.058	14	05	15	0										
96	1.2DL + 1.5LM-MP2 + 1SWL (.	.Y	Y		1	1.2	35	1.5	10	.058	14	0	15	05										
97	1.2DL + 1.5LM-MP2 + 1SWL (.	.Y	Ý		1	1.2	35	1.5	11	.058	14		15	0										
98	1.2DL + 1.5LM-MP2 + 1SWL (.	.Y	Y		1	1.2	35	1.5	12	.058	14	.029	15	05										
99	1.2DL + 1.5LM-MP2 + 1SWL (.	.Y	Y		1	1.2	35	1.5	13	.058	14	.05	15	0										
100	1.2DL + 1.5LM-MP3 + 1SWL (.	.Y	Y		1	1.2	36	1.5	2	.058	14	.058	15											
101	1.2DL + 1.5LM-MP3 + 1SWL (.	.Y	Y		1	1.2	36	1.5	3	.058	14	.05	15	.029										
102	1.2DL + 1.5LM-MP3 + 1SWL (.	.Y	V		1	1.2	36	1.5	4	.058	14	.029	15	.05										
102	1.2DL + 1.5LM-MP3 + 1SWL (.	Y	V		1	1.2	36	1.5	5	.058	14		15	.058										
104	1.2DL + 1.5LM-MP3 + 1SWL (.	.Y	V		1	1.2	36	1.5	6	.058	14	0	15	.05										
105	1.2DL + 1.5LM-MP3 + 1SWL (.	Y	V		1	1.2	36	1.5	7	.058	14	05	15	.029										
106	1.2DL + 1.5LM-MP3 + 1SWL (Y.			1	1.2	36	1.5	2	.058	14	0.	15											
107	1.2DL + 1.5LM-MP3 + 1SWI (Y	V		1	1.2	36	1.5	0	.058	14	05	15	0.										
107	1.2DL + 1.5LM-MP3 + 1SWL (Y.	V		1	1.2	36	1.5	10	.058	14	0.	15	05										
100	1.2DL + 1.5LM-MP3 + 1SWL (Y			1	12	36	1.5	11	058	14		15	0										
109			I						• •															

 RISA-3D Version 17.0.4
 [C:\...\...\...\...\...\BOBDL00113A_loaded.r3d]
 Page 5

Load Combinations (Continued)

Description	S	.P	.s	В	.Fa	.B	.Fa	.B	Fa	.B	.Fa	В	Fa	.B	Fa	В	FaI	В	Fa	.В	.Fa	.B	Fa
110 1.2DL + 1.5LM-MP3 + 1SWL (.	.Y	Y		1	1.2	36	1.5	12	.058	14	.029	15	05										

Joint Boundary Conditions

	Joint Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot.[k-ft/rad]	Y Rot.[k-ft/rad]	Z Rot.[k-ft/rad]
1	P1	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction

Envelope Joint Reactions

	Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
1	P1 ·	687.324	17	1235.1	83	925.238	14	-290.474	14	2297.382	7	2826.232	84
2			11	346.448	53	-925.238	8	-4025.47	82	-2299.582	13	-1358.022	90
3	Totals: .	687.324	17	1235.1	83	925.238	14						
4			11	346.448	53	-925.238	8						

Member Point Loads (BLC 1 : Self Weight)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	Y	-41.25	0
2	MP1	Y	-41.25	72
3	MP1	Y	-74.95	12
4	MP1	Y	-63.93	12
5	S1	Y	-21.85	19

Member Point Loads (BLC 2 : Wind Load AZI 0)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	Х	0	0
2	MP1	Z	-163.12	0
3	MP1	Х	0	72
4	MP1	Z	-163.12	72
5	MP1	Х	0	12
6	MP1	Z	-79.97	12
7	MP1	Х	0	12
8	MP1	Z	-79.97	12
9	S1	Х	0	19
10	S1	Z	-47.61	19

Member Point Loads (BLC 3 : Wind Load AZI 30)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-69.34	0



Member Point Loads (BLC 3 : Wind Load AZI 30) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
2	MP1	Z	-120.1	0
3	MP1	Х	-69.34	72
4	MP1	Z	-120.1	72
5	MP1	Х	-36.04	12
6	MP1	Z	-62.43	12
7	MP1	Х	-35.25	12
8	MP1	Z	-61.05	12
9	S1	Х	-28.11	19
10	S1	Z	-48.69	19

Member Point Loads (BLC 4 : Wind Load AZI 60)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	Х	-77.77	0
2	MP1	Z	-44.9	0
3	MP1	Х	-77.77	72
4	MP1	Z	-44.9	72
5	MP1	Х	-48.77	12
6	MP1	Z	-28.16	12
7	MP1	Х	-44.64	12
8	MP1	Z	-25.77	12
9	S1	Х	-63.6	19
10	S1	Z	-36.72	19

Member Point Loads (BLC 5 : Wind Load AZI 90)

_	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	Х	-65.37	0
2	MP1	Z	0	0
3	MP1	Х	-65.37	72
4	MP1	Z	0	72
5	MP1	Х	-48.43	12
6	MP1	Z	0	12
7	MP1	Х	-42.07	12
8	MP1	Z	0	12
9	S1	Х	-82.05	19
10	S1	Z	0	19

Member Point Loads (BLC 6 : Wind Load AZI 120)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	Х	-77.77	0
2	MP1	Z	44.9	0
3	MP1	Х	-77.77	72

Member Point Loads (BLC 6 : Wind Load AZI 120) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
4	MP1	Z	44.9	72
5	MP1	Х	-48.77	12
6	MP1	Z	28.16	12
7	MP1	Х	-44.64	12
8	MP1	Z	25.77	12
9	S1	Х	-63.6	19
10	S1	Z	36.72	19

Member Point Loads (BLC 7 : Wind Load AZI 150)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	Х	-69.34	0
2	MP1	Z	120.1	0
3	MP1	Х	-69.34	72
4	MP1	Z	120.1	72
5	MP1	Х	-36.04	12
6	MP1	Z	62.43	12
7	MP1	Х	-35.25	12
8	MP1	Z	61.05	12
9	S1	Х	-28.11	19
10	S1	Z	48.69	19

Member Point Loads (BLC 8 : Wind Load AZI 180)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	Х	0	0
2	MP1	Z	163.12	0
3	MP1	Х	0	72
4	MP1	Z	163.12	72
5	MP1	Х	0	12
6	MP1	Z	79.97	12
7	MP1	Х	0	12
8	MP1	Z	79.97	12
9	S1	Х	0	19
10	S1	Z	47.61	19

Member Point Loads (BLC 9 : Wind Load AZI 210)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	Х	69.34	0
2	MP1	Z	120.1	0
3	MP1	X	69.34	72
4	MP1	Z	120.1	72
5	MP1	X	36.04	12

Member Point Loads (BLC 9 : Wind Load AZI 210) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
6	MP1	Z	62.43	12
7	MP1	Х	35.25	12
8	MP1	Z	61.05	12
9	S1	Х	28.11	19
10	S1	Z	48.69	19

Member Point Loads (BLC 10 : Wind Load AZI 240)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	77.77	0
2	MP1	Z	44.9	0
3	MP1	X	77.77	72
4	MP1	Z	44.9	72
5	MP1	X	48.77	12
6	MP1	Z	28.16	12
7	MP1	Х	44.64	12
8	MP1	Z	25.77	12
9	S1	Х	63.6	19
10	S1	Z	36.72	19

Member Point Loads (BLC 11 : Wind Load AZI 270)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	Х	65.37	0
2	MP1	Z	0	0
3	MP1	Х	65.37	72
4	MP1	Z	0	72
5	MP1	Х	48.43	12
6	MP1	Z	0	12
7	MP1	Х	42.07	12
8	MP1	Z	0	12
9	S1	Х	82.05	19
10	S1	Z	0	19

Member Point Loads (BLC 12 : Wind Load AZI 300)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	Х	77.77	0
2	MP1	Z	-44.9	0
3	MP1	Х	77.77	72
4	MP1	Z	-44.9	72
5	MP1	Х	48.77	12
6	MP1	Z	-28.16	12
7	MP1	X	44.64	12

Member Point Loads (BLC 12 : Wind Load AZI 300) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
8	MP1	Z	-25.77	12
9	S1	Х	63.6	19
10	S1	Z	-36.72	19

Member Point Loads (BLC 13 : Wind Load AZI 330)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	69.34	0
2	MP1	Z	-120.1	0
3	MP1	X	69.34	72
4	MP1	Z	-120.1	72
5	MP1	X	36.04	12
6	MP1	Z	-62.43	12
7	MP1	X	35.25	12
8	MP1	Z	-61.05	12
9	S1	X	28.11	19
10	S1	Z	-48.69	19

Member Point Loads (BLC 16 : Ice Weight)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	Y	-84.356	0
2	MP1	Y	-84.356	72
3	MP1	Y	-42.562	12
4	MP1	Y	-39.809	12
5	S1	Y	-41.941	19

Member Point Loads (BLC 17 : Ice Wind Load AZI 0)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	Х	0	0
2	MP1	Z	-19.3	0
3	MP1	Х	0	72
4	MP1	Z	-19.3	72
5	MP1	Х	0	12
6	MP1	Z	-6.96	12
7	MP1	Х	0	12
8	MP1	Z	-6.96	12
9	S1	X	0	19
10	S1	Z	-5.69	19

Member Point Loads (BLC 18 : Ice Wind Load AZI 30)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	Х	-8.84	0
RIS	A-3D Version 17.0.4	C:\\\\	.\\BOBDL00113A loa	aded.r3d] Page 10

Member Point Loads (BLC 18 : Ice Wind Load AZI 30) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
2	MP1	Z	-15.31	0
3	MP1	Х	-8.84	72
4	MP1	Z	-15.31	72
5	MP1	Х	-3.31	12
6	MP1	Z	-5.73	12
7	MP1	Х	-3.27	12
8	MP1	Z	-5.66	12
9	S1	Х	-3.03	19
10	S1	Z	-5.26	19

Member Point Loads (BLC 19 : Ice Wind Load AZI 60)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	Х	-12.49	0
2	MP1	Z	-7.21	0
3	MP1	Х	-12.49	72
4	MP1	Z	-7.21	72
5	MP1	Х	-5.14	12
6	MP1	Z	-2.97	12
7	MP1	Х	-4.94	12
8	MP1	Z	-2.85	12
9	S1	Х	-5.91	19
10	S1	Z	-3.41	19

Member Point Loads (BLC 20 : Ice Wind Load AZI 90)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	Х	-12.8	0
2	MP1	Z	0	0
3	MP1	Х	-12.8	72
4	MP1	Z	0	72
5	MP1	Х	-5.6	12
6	MP1	Z	0	12
7	MP1	Х	-5.28	12
8	MP1	Z	0	12
9	S1	Х	-7.2	19
10	S1	Z	0	19

Member Point Loads (BLC 21 : Ice Wind Load AZI 120)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	Х	-12.49	0
2	MP1	Z	7.21	0
3	MP1	X	-12.49	72

Member Point Loads (BLC 21 : Ice Wind Load AZI 120) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
4	MP1	Z	7.21	72
5	MP1	Х	-5.14	12
6	MP1	Z	2.97	12
7	MP1	Х	-4.94	12
8	MP1	Z	2.85	12
9	S1	Х	-5.91	19
10	S1	Z	3.41	19

Member Point Loads (BLC 22 : Ice Wind Load AZI 150)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	Х	-8.84	0
2	MP1	Z	15.31	0
3	MP1	X	-8.84	72
4	MP1	Z	15.31	72
5	MP1	X	-3.31	12
6	MP1	Z	5.73	12
7	MP1	X	-3.27	12
8	MP1	Z	5.66	12
9	S1	X	-3.03	19
10	S1	Z	5.26	19

Member Point Loads (BLC 23 : Ice Wind Load AZI 180)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	0
2	MP1	Z	19.3	0
3	MP1	X	0	72
4	MP1	Z	19.3	72
5	MP1	X	0	12
6	MP1	Z	6.96	12
7	MP1	X	0	12
8	MP1	Z	6.96	12
9	S1	X	0	19
10	S1	Z	5.69	19

Member Point Loads (BLC 24 : Ice Wind Load AZI 210)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	8.84	0
2	MP1	Z	15.31	0
3	MP1	Х	8.84	72
4	MP1	Z	15.31	72
5	MP1	X	3.31	12

Member Point Loads (BLC 24 : Ice Wind Load AZI 210) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
6	MP1	Z	5.73	12
7	MP1	Х	3.27	12
8	MP1	Z	5.66	12
9	S1	Х	3.03	19
10	S1	Z	5.26	19

Member Point Loads (BLC 25 : Ice Wind Load AZI 240)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	12.49	0
2	MP1	Z	7.21	0
3	MP1	X	12.49	72
4	MP1	Z	7.21	72
5	MP1	X	5.14	12
6	MP1	Z	2.97	12
7	MP1	Х	4.94	12
8	MP1	Z	2.85	12
9	S1	Х	5.91	19
10	S1	Z	3.41	19

Member Point Loads (BLC 26 : Ice Wind Load AZI 270)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	Х	12.8	0
2	MP1	Z	0	0
3	MP1	X	12.8	72
4	MP1	Z	0	72
5	MP1	X	5.6	12
6	MP1	Z	0	12
7	MP1	X	5.28	12
8	MP1	Z	0	12
9	S1	Х	7.2	19
10	S1	Z	0	19

Member Point Loads (BLC 27 : Ice Wind Load AZI 300)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	Х	12.49	0
2	MP1	Z	-7.21	0
3	MP1	Х	12.49	72
4	MP1	Z	-7.21	72
5	MP1	Х	5.14	12
6	MP1	Z	-2.97	12
7	MP1	X	4.94	12

Member Point Loads (BLC 27 : Ice Wind Load AZI 300) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
8	MP1	Z	-2.85	12
9	S1	Х	5.91	19
10	S1	Z	-3.41	19

Member Point Loads (BLC 28 : Ice Wind Load AZI 330)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	8.84	0
2	MP1	Z	-15.31	0
3	MP1	X	8.84	72
4	MP1	Z	-15.31	72
5	MP1	X	3.31	12
6	MP1	Z	-5.73	12
7	MP1	X	3.27	12
8	MP1	Z	-5.66	12
9	S1	X	3.03	19
10	S1	Z	-5.26	19

Member Point Loads (BLC 31 : Seismic Load Z)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	Z	-13.332	0
2	MP1	Z	-13.332	72
3	MP1	Z	-24.224	12
4	MP1	Z	-20.662	12
5	S1	Z	-7.062	19

Member Point Loads (BLC 32 : Seismic Load X)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	Х	-13.332	0
2	MP1	Х	-13.332	72
3	MP1	Х	-24.224	12
4	MP1	Х	-20.662	12
5	S1	Х	-7.062	19

Joint Loads and Enforced Displacements (BLC 33 : Service Live Loads)

1	Joint Label P3	L,D,M L	Direction Y	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2*in)] -250		
Joint Loads and Enforced Displacements (BLC 34 : Maintenance Load 1)						
	Joint Label L,D,M Direction Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2*in)]					

Joint Loads and Enforced Displacements (BLC 34 : Maintenance Load 1) (Continued)

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2*in)]
1	P8	L	Y	-500

Joint Loads and Enforced Displacements (BLC 35 : Maintenance Load 2)

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2*in)]
1	P7	L	Y	-500

Joint Loads and Enforced Displacements (BLC 36 : Maintenance Load 3)

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2*in)]
1	P15	L	Y	-500

Member Distributed Loads (BLC 14 : Distr. Wind Load Z)

	Member Label	Direction	Start Magnitude[lb/ft,	End Magn	.Start Location.	.End Location[in,%]
1	S1	SZ	-90.508	-90.508	0	%100
2	H1	SZ	-54.305	-54.305	0	%100
3	M3	SZ	-54.305	-54.305	0	%100
4	MP1	SZ	-54.305	-54.305	0	%100
5	MP3	SZ	-54.305	-54.305	0	%100
6	MP2	SZ	-54.305	-54.305	0	%100
7	M7	SZ	0	0	0	%100
8	M8	SZ	0	0	0	%100
9	M9	SZ	0	0	0	%100

Member Distributed Loads (BLC 15 : Distr. Wind Load X)

	Member Label	Direction	Start Magnitude[lb/ft,	End Magn	.Start Location	End Location[in,%]
1	S1	SX	-90.508	-90.508	0	%100
2	H1	SX	-54.305	-54.305	0	%100
3	M3	SX	-54.305	-54.305	0	%100
4	MP1	SX	-54.305	-54.305	0	%100
5	MP3	SX	-54.305	-54.305	0	%100
6	MP2	SX	-54.305	-54.305	0	%100
7	M7	SX	0	0	0	%100
8	M8	SX	0	0	0	%100
9	M9	SX	0	0	0	%100

Member Distributed Loads (BLC 16 : Ice Weight)

	Member Label	Direction	Start Magnitude[lb/ft,	End Magn	.Start Location	End Location[in,%]
1	S1	Y	-8.942	-8.942	0	%100
2	H1	Y	-6.082	-6.082	0	%100
3	M3	Y	-7.408	-7.408	0	%100

Member Distributed Loads (BLC 16 : Ice Weight) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,	End Magn.	Start Location	End Location[in,%]
4	MP1	Y	-4.59	-4.59	0	%100
5	MP3	Y	-4.59	-4.59	0	%100
6	MP2	Y	-4.59	-4.59	0	%100
7	M7	Y	-1.44	-1.44	0	%100
8	M8	Y	-1.44	-1.44	0	%100
9	M9	Y	-1.44	-1.44	0	%100

Member Distributed Loads (BLC 29 : Distr. Ice Wind Load Z)

	Member Label	Direction	Start Magnitude[lb/ft,	End Magn	.Start Location	End Location[in,%]
1	S1	SZ	-12.024	-12.024	0	%100
2	H1	SZ	-14.079	-14.079	0	%100
3	M3	SZ	-12.881	-12.881	0	%100
4	MP1	SZ	-16.632	-16.632	0	%100
5	MP3	SZ	-16.632	-16.632	0	%100
6	MP2	SZ	-16.632	-16.632	0	%100
7	M7	SZ	0	0	0	%100
8	M8	SZ	0	0	0	%100
9	M9	SZ	0	0	0	%100

Member Distributed Loads (BLC 30 : Distr. Ice Wind Load X)

	Member Label	Direction	Start Magnitude[lb/ft,	End Magn	Start Location	End Location[in,%]
1	S1	SX	-12.024	-12.024	0	%100
2	H1	SX	-14.079	-14.079	0	%100
3	M3	SX	-12.881	-12.881	0	%100
4	MP1	SX	-16.632	-16.632	0	%100
5	MP3	SX	-16.632	-16.632	0	%100
6	MP2	SX	-16.632	-16.632	0	%100
7	M7	SX	0	0	0	%100
8	M8	SX	0	0	0	%100
9	M9	SX	0	0	0	%100

Member Area Loads

Joint A	Joint A Joint B Joint C		Joint D	Direction	Distribution	Magnitude[psf]
		No Data	to Print			· · ·

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

	Member	Shape	Code Check	Loc[in]	LC	She	Loc[in]	Dir	LC	phi*P	phi*P	.phi*M	.phi*Mn z-z [l	bCb	Eqn
1	MP1	2.3750DX.12	.594	48	8	.035	48		8	1328	 3519	2107	2107.18	3 1	.H1-1b
2	H1	3.50DX.165	.464	39	86	.185	39		8	5335	7156	6336	6336.49	1 1	. <mark>H1-1</mark> b
3	S1	4X4X.25	.243	0	7	.225	0	у	86	1489	1552	1822	18220.31	3 1	. <mark>H1-1</mark> b
4	MP3	2.375ODX.12	.041	48	9	.004	48		9	1328	3519	2107	2107.18	3 1	. <mark>H1-1</mark> b
5	MP2	2.3750DX.12	.041	48	9	.004	48		9	1328	3519	2107	2107.18	3 1	.H1-1b
6	M3	PIPE 4.5 O	.001	9	9	.000	9		10	1044	1054	1206	12067.28	4 1	. <mark>H1-1</mark> b



Bolt Calculation Tool, V1.5.1

PROJECT DATA							
Site Name:	Oct - Boston Post Rd						
Site Number:	BOBDL00113A						
Connection Description:	T-Arm to Collar						

MAXIMUM BOLT LOADS				
Bolt Tension:	3951.34	lbs		
Bolt Shear:	1949.42	lbs		

WORST CASE BOLT LOADS ¹			
Bolt Tension:	3951.34	lbs	
Bolt Shear:	286.93	lbs	

BOLT PROPERTIES				
Bolt Type:	Bolt	-		
Bolt Diameter:	0.625	in		
Bolt Grade:	A325	-		
# of Bolts:	4	-		
Threads Excluded?	No	-		

¹ Worst case bolt loads correspond to Load combination #7 on member S1 in RISA-3D, which causes the maximum demand on the bolts.

Member Information

I nodes of S1

BOLT CHECK		
Tensile Strength	20340.15	
Shear Strength	13805.83	
Max Tensile Usage	19.4%	
Max Shear Usage	14.1%	
Interaction Check (Worst Case)	0.04	≤1.05
Result	Pass	





Location

ASCE 7 Hazards Report

Section 11.4.3)

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

 Elevation:
 8.16 ft (NAVD 88)

 Latitude:
 41.289778

 Longitude:
 -72.405944



Wind

Results:

Wind Speed	125 Vmph
10-year MRI	76 Vmph
25-year MRI	85 Vmph
50-year MRI	96 Vmph
100-year MRI	102 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:	Mon Dec 06 2021	

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 Section 11.4.3)		
S _s :	0.202	S _{D1} :	0.085
S ₁ :	0.053	Τ _L :	6
F _a :	1.6	PGA :	0.113
F _v :	2.4	PGA M:	0.177
S _{MS} :	0.323	F _{PGA} :	1.575
S _{M1} :	0.128	l _e :	1
S _{DS} :	0.216	C _v :	0.704
Seismic Design Category	В		





Data Accessed:

Mon Dec 06 2021

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:	Mon Dec 06 2021

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.

Exhibit F

Power Density/RF Emissions Report



Radio Frequency Emissions Analysis Report



Site ID: BOBDL00113A

OCT - BOSTON POST RD 1363 Boston Post Road Old Saybrook, CT 06475

October 11, 2021

Fox Hill Telecom Project Number: 210617

Site Compliance Summary			
Compliance Status: COMPLIANT			
Site total MPE% of FCC general population allowable limit:	25.61 %		



October 11, 2021

Dish Wireless 5701 South Santa Fe Drive Littleton, CO 80120

Emissions Analysis for Site: BOBDL00113A - OCT - BOSTON POST RD

Fox Hill Telecom, Inc ("Fox Hill") was directed to analyze the proposed radio installation for Dish Wireless, LLC (Dish) facility located at **1363 Boston Post Road, Old Saybrook, 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 limits for the 600 MHz & 700 MHz bands are approximately 400 μ W/cm² and 467 μ W/cm² respectively. The general population exposure limit for the 1900 MHz (PCS) and 2100 MHz (AWS) 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 this 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 radio system installation for **Dish** on the subject site located at **1363 Boston Post Road**, **Old Saybrook**, **CT**, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since **Dish** is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB for directional panel antennas, was focused at the base of the tower. For this report the sample point is the top of a 6-foot person standing at the base of the tower.

Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. All power values expressed and analyzed are maximum power levels expected to be used on all radios.

All emissions values for additional carriers were taken from the Connecticut Siting Council (CSC) active MPE database. Values in this database are provided by the individual carriers themselves

For each 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	600 MHz	4	61.5
5G	1900 MHz (PCS)	4	40
5G	2100 MHz (AWS)	4	40

Table 1: Channel Data Table



The following antennas listed in *Table 2* were used in the modeling for transmission in the 600 MHz, 1900 MHz (PCS) and 2100 MHz (AWS) frequency bands. This is based on feedback from the carrier with regards to anticipated antenna selection. Maximum gain values for all antennas are listed in the Inventory and Power Data table below. The maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB for directional panel antennas, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.

			Antenna
	Antenna		Centerline
Sector	Number	Antenna Make / Model	(ft)
А	1	JMA MX08FRO665-21	75
В	1	JMA MX08FRO665-21	75
С	1	JMA MX08FRO665-21	75

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.

					Total TX		
Antenna	Antenna Make /		Antenna Gain	Channel	Power		
ID	Model	Frequency Bands	(dBd)	Count	(W)	ERP (W)	MPE %
		600 MHz /					
Antenna	JMA	1900 MHz (PCS) /	11.45 / 16.15 /				
A1	MX08FRO665-21	2100 MHz (AWS)	16.65	12	566	17,426.72	17.05
				Se	ector A Com	posite MPE%	17.05
		600 MHz /					
Antenna	JMA	1900 MHz (PCS) /	11.45 / 16.15 /				
B1	MX08FRO665-21	2100 MHz (AWS)	16.65	12	566	17,426.72	17.05
				Se	ector B Com	posite MPE%	17.05
		600 MHz /					
Antenna	JMA	1900 MHz (PCS) /	11.45 / 16.15 /				
C1	MX08FRO665-21	2100 MHz (AWS)	16.65	12	566	17,426.72	17.05
				Se	ector C Com	posite MPE%	17.05

Table 3: Dish Emissions Levels



The Following table (*table 4*) shows all additional carriers on site and their MPE% as recorded in the CSC active MPE database for this facility along with the newly calculated maximum **Dish** MPE 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 MPE values due to their greatly reduced emissions contributions in the directions of the adjacent sectors. *Table 5* below shows a summary for each **Dish** Sector as well as the composite MPE value for the site.

Site Composite MPE%				
Carrier	MPE%			
Dish – Max Per Sector Value	17.05 %			
AT&T	6.70 %			
Verizon Wireless	1.86 %			
Site Total MPE %:	25.61 %			

Table 4: All Carrier MPE Contributions

Dish Sector A Total:	17.05 %
Dish Sector B Total:	17.05 %
Dish Sector C Total:	17.05 %
Site Total:	25.61 %

Table 5: Site MPE Summary



FCC OET 65 specifies that for carriers utilizing directional antennas that the highest recorded sector value be used for composite site MPE values due to their greatly reduced emissions contributions in the directions of the adjacent sectors. *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 600 MHz 5G	4	858.77	75	25.94	600 MHz	400	6.48%
Dish 1900 MHz (PCS) 5G	4	1,648.39	75	49.79	1900 MHz (PCS)	1000	4.98%
Dish 2100 MHz (AWS) 5G	4	1,849.52	75	55.86	2100 MHz (AWS)	1000	5.59%
						Total:	17.05%

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:	17.05 %
Sector B:	17.05 %
Sector C:	17.05 %
Dish Maximum Total (per sector):	17.05 %
Site Total:	25.61 %
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **25.61** % of the allowable FCC established general population limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

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 M

Scott Heffernan Principal RF Engineer Fox Hill Telecom, Inc Holden, MA 01520 (978)660-3998

Exhibit G

Letter of Authorization

SRR Towers, LLC - 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 SRR Towers, LLC - telecommunications site at: 1363 BOSTON POST RD, OLD SAYBROOK, CT 06475

SRR Towers, LLC, a Delaware Limited Liability Company ("SRR") 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 CT - CONNECTICUT SITING COUNCIL for the existing wireless communications site described below:

SRR ID/Name: CT-1263 Old Saybrook, Boston Post Road
Customer Site ID: BOBDL00113A/OCT - BOSTON POST RD
Site Address: 1363 BOSTON POST RD, OLD SAYBROOK, CT 06475

SRR Towers, LLC

By: Achy m Date:		9//2021
Name: James M. BURGERS Title: VICE PESSIONT - REAL	ESMATE	

Exhibit H

Recipient Mailings
Exhibit H

Recipient Mailings

BOBDL00113A

	NITED OSTAL	STAT SERV	<u>es</u> . Ice.
	UNIONVILL 24 MILL S	E T	
UNIONVI	(LLE, CT 06 (800)275-8	085-9998 777	
10/21/2021			04:09 PM
Product	Qty	Unit Price	Price
Prepaid Mail North Readin Weight: 0 H Acceptance I Thu 10/2 Tracking #: 9405 503	1 ng, MA 0186 5 2.00 oz Date: 21/2021 36 9930 003	4 19 7091 40	\$0.00
Prepaid Mail Chagrin Fal Weight: O 1 Acceptance Thu 10/ Tracking #: 9405 50	1 1s, 0H 4402 b 9.70 oz Date: 21/2021 36 9930 003	2 89 7091 26	\$0.00
Prepaid Mail Old Saybroo Weight: O l Acceptance Thu 10/ Tracking #: 9405 50	1 k, CT 06475 b 9.80 oz Date: 21/2021 36 9930 003	5 39 7090 89	\$0.00
Prepaid Mail Old Saybroo Weight: O l Acceptance Thu 10/ Tracking #: 9405 50	1 k, CT 06475 b 9.80 oz Date: 21/2021 36 9930 003	5 39 7091 0:	\$0.00 2
Grand Total:			\$0,00

Instructions

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

Click-N-Ship® Label Record

USPS TRACKING # : 9405 5036 9930 0039 7091 26					
Trans, #: Print Date: Ship Date: Expected Delivery Dat	546529351 10/21/2021 10/21/2021 te: 10/25/2021	Priority Mail® Postage: Total:	\$8.70 \$8.70		
From: D N 42 S S	EBORAH CHASE ORTHEAST SITE \$ 20 MAIN ST TE 1 TURBRIDGE MA 0	SOLUTIONS 1566-1359			
To: 0 5 C	CTAGON TOWER: 7 E WASHINGTON HAGRIN FALLS O	S, LLC S⊤ H 44022-3044			
* Retail Pricing on Priority Mail unused postag	Priority Mail rates app I service with use of thi e paid labels can be re	ly. There is no fee for USPS T s electronic rate shipping label squested online 30 days from th	racking® service . Refunds for ne print date.		

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

Cut on dotted line.

Instructions

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

Click-N-Ship® Label Record

USPS TRACKING # : 9405 5036 9930 0039 7091 40						
Trans, #: Print Date Ship Date Expected Delivery	546529351 a: 10/21/2021 a: 10/21/2021 Date: 10/22/2021	Priority Mail® Postage: Total:	\$8.70 \$8.70			
From: DEBORAH CHASE NORTHEAST SITE SOLUTIONS 420 MAIN ST STE 1 STURBRIDGE MA 01566-1359						
То:	BLUE SKY TOWER 1 352 PARK ST STE 106 NORTH READING M	MANAGEMENT IA 01864-2157				
* Retail Pric on Priority I unused pos	ing Priority Mail rates appl Mail service with use of this tage paid labels can be re	y. There is no fee for USPS To s electronic rate shipping label, quested online 30 days from th	racking® service Refunds for te print date.			



Thank you for shipping with the United States Postal Service!

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.

BOBDLOOUZA

Click-N-Ship® Label Record

	USPS TRACKING # : 9405 5036 9930 0039 7090 89					
Trans. #: Print Dat Ship Dat Expected Delivery	546529351 e: 10/21/2021 e: 10/21/2021 d Date: 10/25/2021	Priority Mail® Postage: Total:	\$8.70 \$8.70			
From:	DEBORAH CHASE NORTHEAST SITE S 420 MAIN ST STE 1 STURBRIDGE MA 0	OLUTIONS 1566-1359				
To:	CARL P FORTUNA, TOWN OF OLD SAY 302 MAIN ST OLD SAYBROOK CT	JR. BROOK 1 06475-2384				
* Retail Pric on Priority I	sing Priority Mail rates appl Mail service with use of this stage paid labels can be re-	y. There is no fee for USPS To s electronic rate shipping label. quested online 30 days from th	acking® service Refunds for			

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

10/21/2,

Cut on dotted line.

Instructions

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





All sales final on stamps and postage. Refunds for guaranteed services only. Thank you for your business.

Tell us about your experience. Go to: https://postalexperience.com/Pos or scan this code with your mobile device,



or call 1-800-410-7420.

UFN: 249629-1103 Receipt #: 840-50180231-2-8443542-1 Clerk: 11