

## SECOND AMENDMENT TO TOWER CONSTRUCTION AND LEASE AGREEMENT

THIS SECOND AMENDMENT TO TOWER CONSTRUCTION AND LEASE AGREEMENT (the "Second Amendment") is made and shall be effective, as of the last date of the signatures below ("Effective Date"), between Board of Education for Community Unit School District 200 f/k/a County Board of School Trustees of DuPage County, Illinois, a Body Politic and Corporate for the Use and Benefit of School District Number 95, ("LESSOR") and Chicago SMSA Limited Partnership d/b/a Verizon Wireless ("LESSEE"). LESSOR and LESSEE (or their predecessors in interest) entered into that certain Tower Construction and Lease Agreement dated June 23, 2015, as may have been previously amended and/or assigned (the "Lease"), pursuant to which LESSEE is leasing from LESSOR a portion of that certain property located at 1993 Tiger Trail, in the City of Wheaton, County of DuPage, State of Illinois, as more particularly described in the Lease. LESSOR and LESSEE may be referenced in this Second Amendment individually as a "Party" or collectively as the "Parties."

In consideration of the mutual covenants and promises contained in this Second Amendment, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged by the Parties, the Parties agree to amend the Lease as follows:

1. LESSEE shall be allowed to make the equipment additions or removals necessary to configure LESSEE's equipment as shown on Attachment A, attached hereto. For all purposes under the Lease as amended hereby, the descriptions and specifications of LESSEE's equipment set forth in the Lease, including, without limitation, any equipment descriptions and specifications with respect to LESSEE's equipment set forth in any schedules, exhibits or attachments to the Lease, are hereby deleted and replaced with the specifications of LESSEE's equipment described in Attachment A, attached hereto.
2. Effective upon the first day of the month following the date LESSEE commences installation of the equipment modifications contemplated under this Second Amendment, annual rent for the current lease year shall be increased by \$1,200.00 and shall continue to be paid in accordance with the terms and conditions of the Lease.
3. Unless otherwise provided herein, all defined terms shall have the same meaning as ascribed to such terms in the Lease.
4. In the event of any conflict or inconsistency between the terms of this Second Amendment and the Lease, the terms of this Second Amendment shall govern and control.
5. Except as otherwise provided for in this Second Amendment, the Lease shall remain in full force and effect in accordance with the original terms of the Lease.

[SIGNATURE PAGE TO FOLLOW]

LESSEE Site Name: Herrick\_Lake Sam  
LESSEE Location #: 165883

**IN WITNESS WHEREOF**, this Second Amendment is effective and entered into as of the date last written below:

**LESSOR:**

Board of Education for Community Unit School District 200  
f/k/a County Board of School Trustees of DuPage County, Illinois,  
a Body Politic and Corporate for the Use and Benefit of School District Number 95,

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

**LESSEE:**

Chicago SMSA Limited Partnership  
d/b/a Verizon Wireless  
By Cellco Partnership, Its General Partner

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

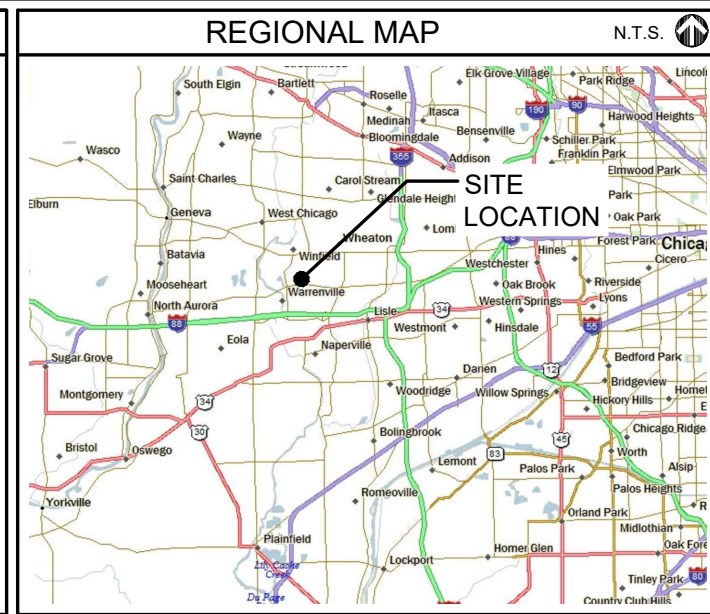
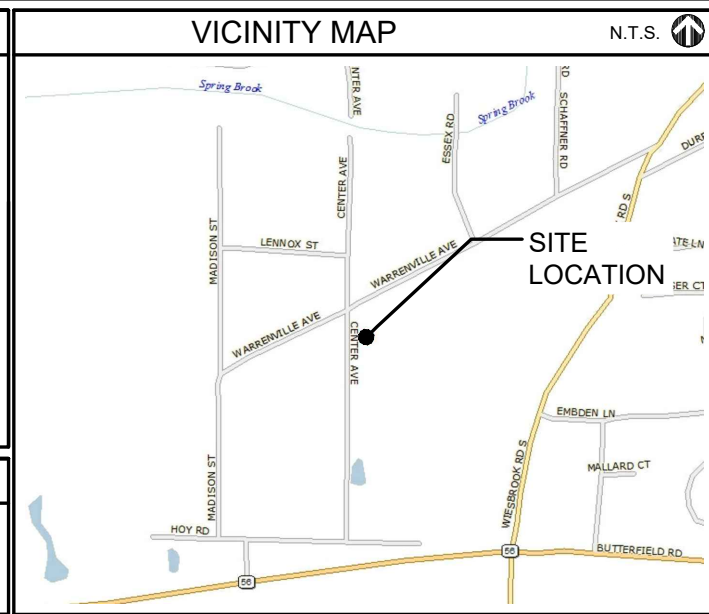
Date: \_\_\_\_\_

LESSEE Site Name: Herrick\_Lake Sam  
LESSEE Location #: 165883

## **ATTACHMENT A**

### **SPECIFICATIONS**

APPROVALS	
REAL ESTATE:	_____
RF:	_____
CONSTRUCTION:	_____
EQUIPMENT ENGINEERING:	_____
OPERATIONS:	_____



CONSULTANT TEAM	
PROJECT CONSULTANT:	TERRA CONSULTING GROUP, LTD. 600 BUSSE HIGHWAY PARK RIDGE, IL 60068 (847) 698-6400
STRUCTURAL CONSULTANT: (TOWER ANALYSIS)	PAUL J FORD AND COMPANY 250 E. BROAD STREET SUITE 1500 COLUMBUS, OH 43215 (614) 221-6679 (614) 448-4105 (FAX)
STRUCTURAL CONSULTANT: (MOUNT ANALYSIS)	BY OTHERS
MOUNT ANALYSIS STATUS:	COMPLETE
MOUNT ANALYSIS RESULTS:	PASS
MOUNT ANALYSIS DATE:	09/29/2020
STRUCTURAL ANALYSIS DATE:	10/20/2020

PROJECT TYPE
PROPOSED ANTENNA MODIFICATION ON AN EXISTING WIRELESS SITE

CONTRACTOR PMI REQUIREMENTS	
PMI ACCESSED AT:	HTTPS://PMI.VZWSMART.COM
SMART TOOL VENDOR PROJECT #:	10016678
VZW LOCATION CODE (PSLC):	165883
***PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT	

MOUNT MODIFICATION REQUIRED:	NO
VZW APPROVED SMART KIT VENDORS	
REFER TO MOUNT MODIFICATION DRAWINGS PAGE FOR VZW SMART KIT APPROVED VENDORS	

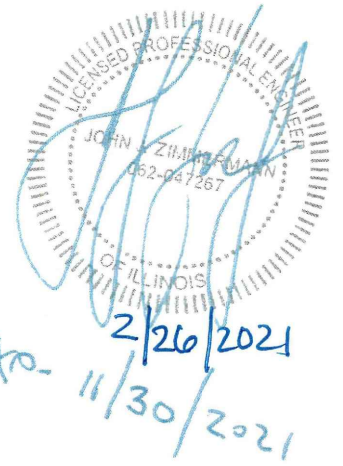
GENERAL CONTRACTOR TO FOLLOW ALL APPLICABLE BUILDING CODES OBSERVED BY LOCAL JURISDICTION

PROJECT INFORMATION	
OCCUPANCY:	UNINHABITED
SITE ADDRESS:	1993 TIGER TRAIL WHEATON, IL 60189
LATITUDE:	41° 50' 07.10" N (APPROXIMATE)
LONGITUDE:	88° 09' 03.88" W (APPROXIMATE)
STRUCTURE OWNER:	COMMUNITY UNIT SCHOOL DISTRICT #200 130 WEST PARK AVE. WHEATON, IL 60189
APPLICANT:	VERIZON WIRELESS 1515 WOODFIELD ROAD SCHAUMBURG, IL 60173
REAL ESTATE MANAGER:	MICHAEL COSENTINO (847) 706-2540



1701 GOLF ROAD, TOWER 2, SUITE 400  
ROLLING MEADOWS, ILLINOIS 60008  
PHONE: (847) 619-5397 FAX: (847) 706-7415

**LOCATION NUMBER: 165883**  
**SITE NAME: HERRICK LAKE**  
**1993 TIGER TRAIL**  
**WHEATON, IL 60189**



SHEET	DRAWING INDEX	REVISION
T-1	TITLE SHEET	-
C-1	SITE LAYOUT	-
ANT-1	SITE ELEVATION	-
ANT-2	ANTENNA LAYOUT	-
ANT-2A	PROPOSED ANTENNA LAYOUT	-
ANT-3	ANTENNA INFORMATION	-
ANT-3A	COMBINER CABLE DATA & CABLE DIAGRAM	-
ANT-4	DETAILS	-

22" x 34" IS FULL SCALE | 11" x 17" IS HALF SCALE

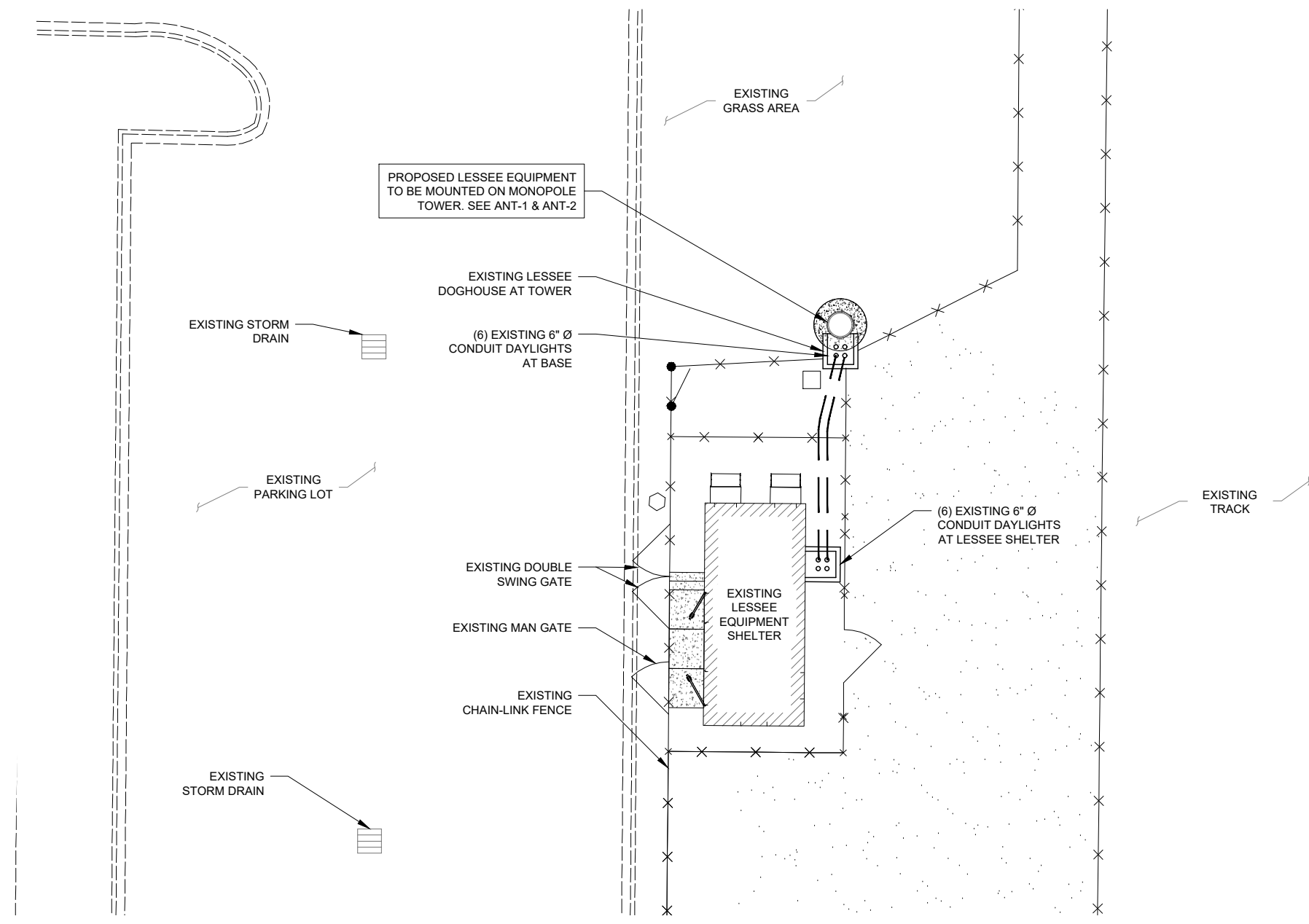
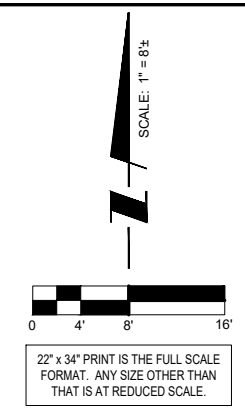
NO.	DESCRIPTION	BY	TH	RA
		DATE		
1.	ISSUED FOR REVIEW			
	ISSUED FOR FINAL			

**LOC. # 165883**  
**HERRICK LAKE**  
  
1993 RIGER TRAIL  
WHEATON, IL 60189

DRAWN BY:	TH
CHECKED BY:	AU
DATE:	10/13/20
PROJECT #:	124-975

SHEET TITLE  
**TITLE SHEET**

SHEET NUMBER  
**T-1**



NO.	DESCRIPTION	DATE	BY		
			TH	RA	
1.	ISSUED FOR REVIEW	12/11/2020			
	ISSUED FOR FINAL	02/26/2021			

**LOC. # 165883**  
**HERRICK LAKE**

1993 RIGER TRAIL  
 WHEATON, IL 60189

DRAWN BY:	TH
CHECKED BY:	AU
DATE:	10/13/20
PROJECT #:	124-975

SHEET TITLE  
**SITE LAYOUT**

SHEET NUMBER  
**C-1**

THESE PLANS ASSUME SITE WAS BUILT PER CONSTRUCTION DRAWINGS BY TERRA CONSULTING GROUP DATED 06/25/2018. A SITE VISIT WAS NOT PERFORMED FOR THIS UPGRADE.

**1 SITE LAYOUT**

NOTES:  
THIS DRAWING IS FOR EXHIBIT AND LAYOUT PURPOSES ONLY.

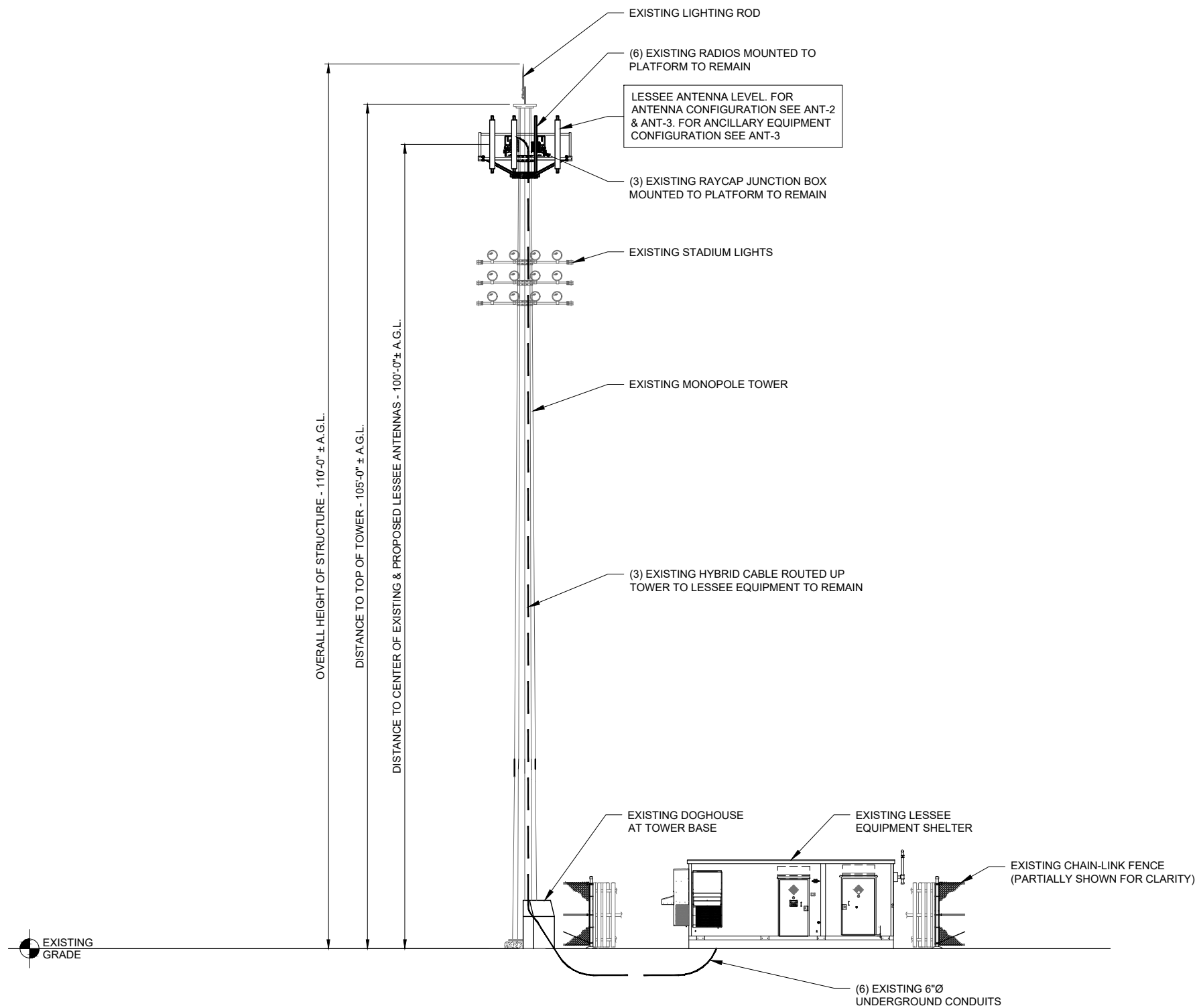
PLEASE REFER TO MOUNT ANALYSIS PROVIDED BY OTHERS AND TOWER ANALYSIS PROVIDED BY PAUL J FORD & COMPANY FOR ANALYSIS AND STRUCTURAL REQUIREMENTS.

THE ANALYSIS OF THE ANTENNA MOUNT WAS PERFORMED BY OTHERS. TERRA CONSULTING GROUP IS NOT RESPONSIBLE FOR THE ANTENNA MOUNT. THE OWNER DIRECTLY CONTRACTED THE MOUNT ANALYSIS WITH OTHERS.

FULL SCALE PRINT IS ON 22"x34" MEDIA  
HALF SCALE PRINT IS ON 11"x17" MEDIA

**verizon**  
1701 GOLF ROAD,  
TOWER 2, SUITE 400  
ROLLING MEADOWS, IL 60008  
PHONE: (847) 619-5397  
FAX: (847) 706-7415

**TERRA**  
CONSULTING GROUP, LTD.  
600 BUSSE HIGHWAY  
PARK RIDGE, IL 60068  
PH: 847-898-6000  
FAX: 847-898-6401



THESE PLANS ASSUME SITE WAS BUILT PER CONSTRUCTION DRAWINGS BY TERRA CONSULTING GROUP DATED 06/25/2018. A SITE VISIT WAS NOT PERFORMED FOR THIS UPGRADE.

1 WEST ELEVATION  
SCALE: 1/8" = 1'-0" ±

NO.	DESCRIPTION	DATE		
		BY	TH	RA
1.	ISSUED FOR REVIEW	12/11/2020		
	ISSUED FOR FINAL	02/26/2021		

LOC. # 165883

HERRICK LAKE

1993 RIGER TRAIL  
WHEATON, IL 60189

DRAWN BY:	TH
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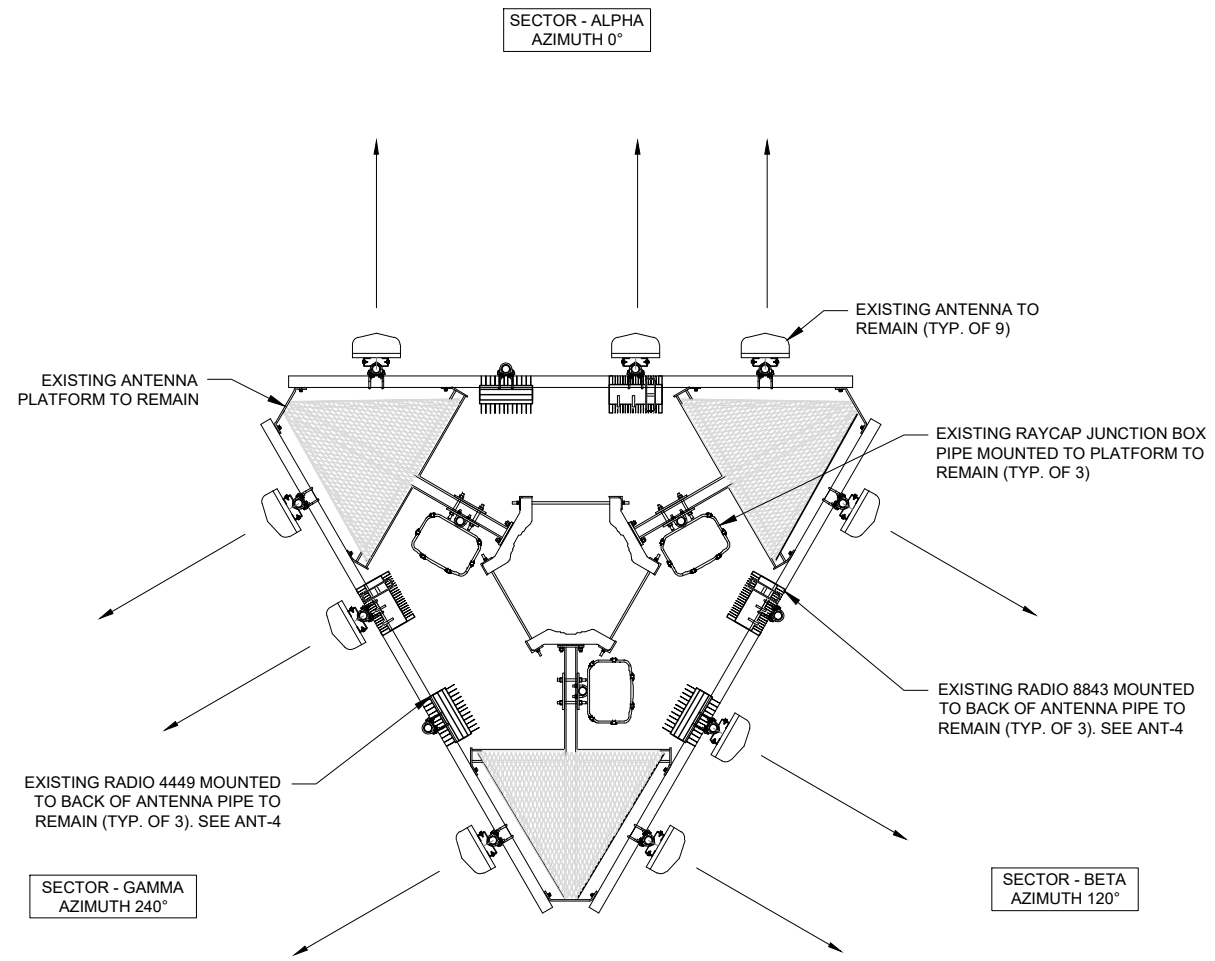
SHEET TITLE  
SITE ELEVATION

SHEET NUMBER

**ANT-1**

**NOTES:**

1. THIS DRAWING IS FOR EXHIBIT AND LAYOUT PURPOSES ONLY.
2. NO ANTENNA OR LINE WORK TO BEGIN PRIOR TO CONFIRMATION OF ADEQUATE TOWER AND MOUNT CAPACITY.
3. G.C. TO VERIFY ANTENNA TECHNOLOGIES PRIOR TO REMOVAL OF ANY ANTENNAS.
4. REFER TO ANT-3 & ANT-3A FOR DETAIL ON EXISTING & PROPOSED RF CONFIGURATION.



THESE PLANS ASSUME SITE WAS BUILT PER CONSTRUCTION DRAWINGS BY TERRA CONSULTING GROUP DATED 06/25/2018. A SITE VISIT WAS NOT PERFORMED FOR THIS UPGRADE.

**1** EXISTING ANTENNA LAYOUT  
N.T.S.

**verizon**  
1701 GOLF ROAD,  
TOWER 2, SUITE 400  
ROLLING MEADOWS, IL 60008  
PHONE: (847) 619-5397  
FAX: (847) 706-7415

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NO.	DESCRIPTION	DATE		
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	ISSUED FOR FINAL	02/26/2021		

**LOC. # 165883**  
**HERRICK LAKE**

1993 RIGER TRAIL  
WHEATON, IL 60189

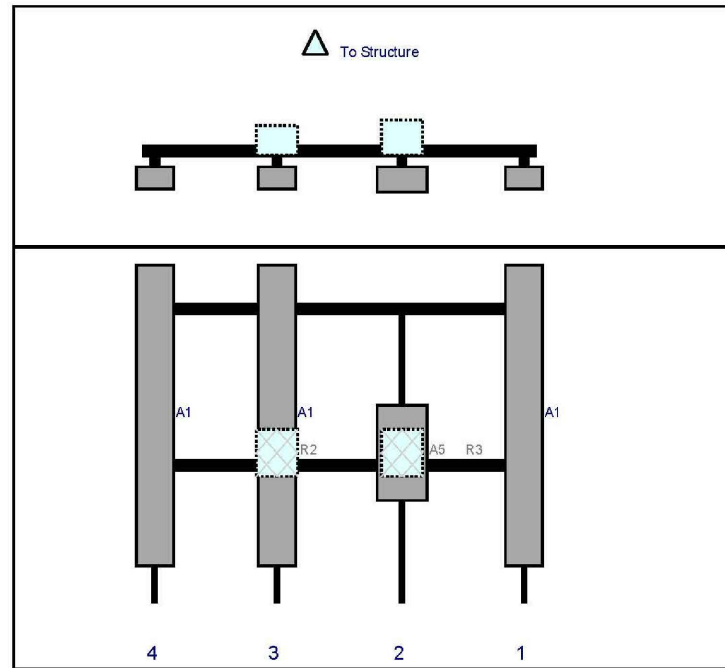
DRAWN BY:	TH
CHECKED BY:	AU
DATE:	10/13/20
PROJECT #:	124-975

SHEET TITLE  
**ANTENNA LAYOUT**

SHEET NUMBER  
**ANT-2**

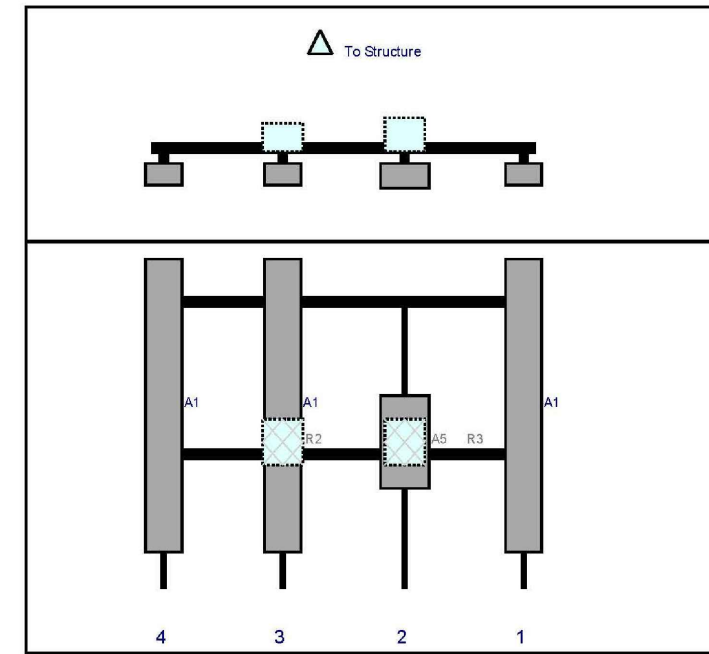
NOTE:  
THE GENERAL CONTRACTOR IS TO REFER TO THE STRUCTURAL MOUNT ANALYSIS PERFORMED BY OTHERS. THIS IS A REPRESENTATION TAKEN DIRECTLY FROM THAT ANALYSIS. IF THERE IS CONFLICT BETWEEN THE ANALYSIS AND DRAWINGS, THE ANALYSIS TAKES PRECEDENT. VERIZON WIRELESS CONTRACTED DIRECTLY WITH THE MOUNT ANALYSIS ENGINEER; TERRA IS NOT RESPONSIBLE FOR THE MOUNT ANALYSIS.

Plan View



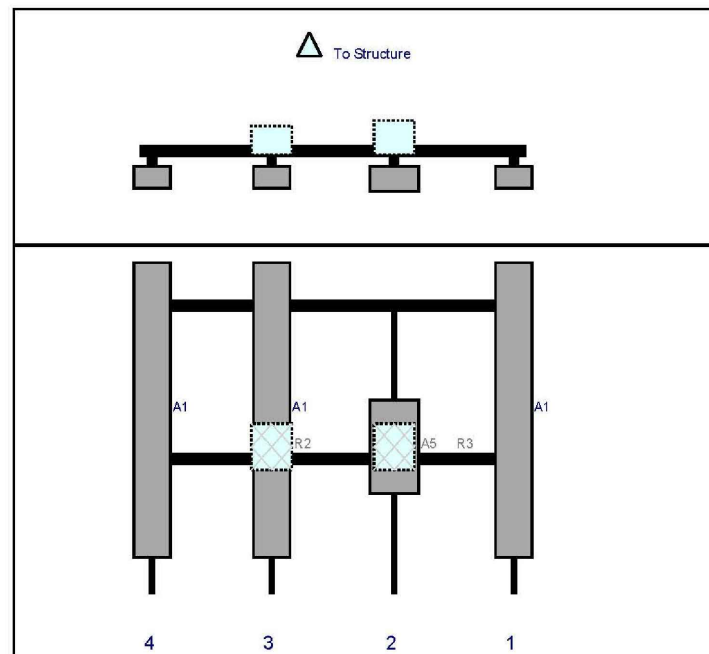
1 ALPHA SECTOR

Plan View



2 BETA SECTOR

Plan View



3 GAMMA SECTOR

ALPHA SECTOR

Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A1	NHH-65C-R2B	96	11.9	122	1	a	Front	36	0	Retained	
A5	VZE01	30.4	15.9	83	2	a	Front	48	0	Added	
R3	8843	15	13.2	83	2	a	Behind	48	0	Retained	
A1	NHH-65C-R2B	96	11.9	43	3	a	Front	36	0	Retained	
R2	4449	15	13.2	43	3	a	Behind	48	0	Retained	
A1	NHH-65C-R2B	96	11.9	4	4	a	Front	36	0	Retained	

\*The Raycap equipment is located on the standoff members and is not shown in this drawing.

BETA SECTOR

Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A1	NHH-65C-R2B	96	11.9	122	1	a	Front	36	0	Retained	
A5	VZE01	30.4	15.9	83	2	a	Front	48	0	Added	
R3	8843	15	13.2	83	2	a	Behind	48	0	Retained	
A1	NHH-65C-R2B	96	11.9	43	3	a	Front	36	0	Retained	
R2	4449	15	13.2	43	3	a	Behind	48	0	Retained	
A1	NHH-65C-R2B	96	11.9	4	4	a	Front	36	0	Retained	

GAMMA SECTOR

Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A1	NHH-65C-R2B	96	11.9	122	1	a	Front	36	0	Retained	
A5	VZE01	30.4	15.9	83	2	a	Front	48	0	Added	
R3	8843	15	13.2	83	2	a	Behind	48	0	Retained	
A1	NHH-65C-R2B	96	11.9	43	3	a	Front	36	0	Retained	
R2	4449	15	13.2	43	3	a	Behind	48	0	Retained	
A1	NHH-65C-R2B	96	11.9	4	4	a	Front	36	0	Retained	

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**verizon**  
1701 GOLF ROAD,  
TOWER 2, SUITE 400  
ROLLING MEADOWS, IL 60008  
PHONE: (847) 619-5397  
FAX: (847) 706-7415

**TERRA**  
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600 BUSSE HIGHWAY  
PARK RIDGE, IL 60068  
PH: 847-698-6000  
FAX: 847-698-6401

NO.	DESCRIPTION	DATE	BY	TH	RA
1.	ISSUED FOR REVIEW	12/11/2020			
	ISSUED FOR FINAL	02/26/2021			

LOC. # 165883  
HERRICK LAKE

1993 RIGER TRAIL  
WHEATON, IL 60189

DRAWN BY: TH  
CHECKED BY: AU  
DATE: 10/13/20  
PROJECT #: 124-975

SHEET TITLE  
PROPOSED ANTENNA LAYOUT

SHEET NUMBER  
**ANT-2A**



### Antenna Summary

Added																			
700	850	1900	AWS	AWS3	28 GHz	31 GHz	39 GHz	CBRS	LAA	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity
										5G	TBD	L-Sub6 Antenna	100	101.3	0(0001) 120(0002) 240(0003)	false	false	PHYSICAL	3
Removed																			
700	850	1900	AWS	AWS3	28 GHz	31 GHz	39 GHz	CBRS	LAA	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity
No data available.																			
Retained																			
700	850	1900	AWS	AWS3	28 GHz	31 GHz	39 GHz	CBRS	LAA	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity
LTE	LTE 5G	LTE	LTE								COMMSCOPE	NHH-65C-R2B	100	104	0(D1) 120(D2) 240(D3)	false	false	PHYSICAL	9

Added: 3    Removed: 0    Retained: 9

### 1 ANTENNA SUMMARY N.T.S.

### Equipment Summary

Added																		
Equipment Type	Location	700	850	1900	AWS	AWS3	28 GHz	31 GHz	39 GHz	CBRS	LAA	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity
RRU	Tower											5G	Ericsson	VZE01			PHYSICAL	3
Removed																		
Equipment Type	Location	700	850	1900	AWS	AWS3	28 GHz	31 GHz	39 GHz	CBRS	LAA	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity
No data available.																		
Retained																		
Equipment Type	Location	700	850	1900	AWS	AWS3	28 GHz	31 GHz	39 GHz	CBRS	LAA	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity
RRU	Tower	LTE	LTE 5G										Ericsson	4449			PHYSICAL	3
RRU	Tower			LTE	LTE								Ericsson	8843			PHYSICAL	3
Hybrid Cable	Tower														6x12		PHYSICAL	3
OVP Box	Tower														3315		PHYSICAL	3
OVP Box	Shelter														3315		PHYSICAL	1
OVP Box	Shelter														6627		PHYSICAL	1

THESE PLANS ASSUME SITE WAS BUILT PER CONSTRUCTION DRAWINGS BY TERRA CONSULTING GROUP DATED 06/25/2018. A SITE VISIT WAS NOT PERFORMED FOR THIS UPGRADE.

### 2 EQUIPMENT SUMMARY N.T.S.



NO.	DESCRIPTION	DATE	BY	TH	RA
		12/11/2020			
1.	ISSUED FOR REVIEW	02/26/2021			
	ISSUED FOR FINAL				

LOC. # 165883  
HERRICK LAKE

1993 RIGER TRAIL  
WHEATON, IL 60189

DRAWN BY:	TH
CHECKED BY:	AU
DATE:	10/13/20
PROJECT #:	124-975

SHEET TITLE  
**ANTENNA INFORMATION**

SHEET NUMBER  
**ANT-3**

**RF EMISSIONS REPORT REQUIRED**

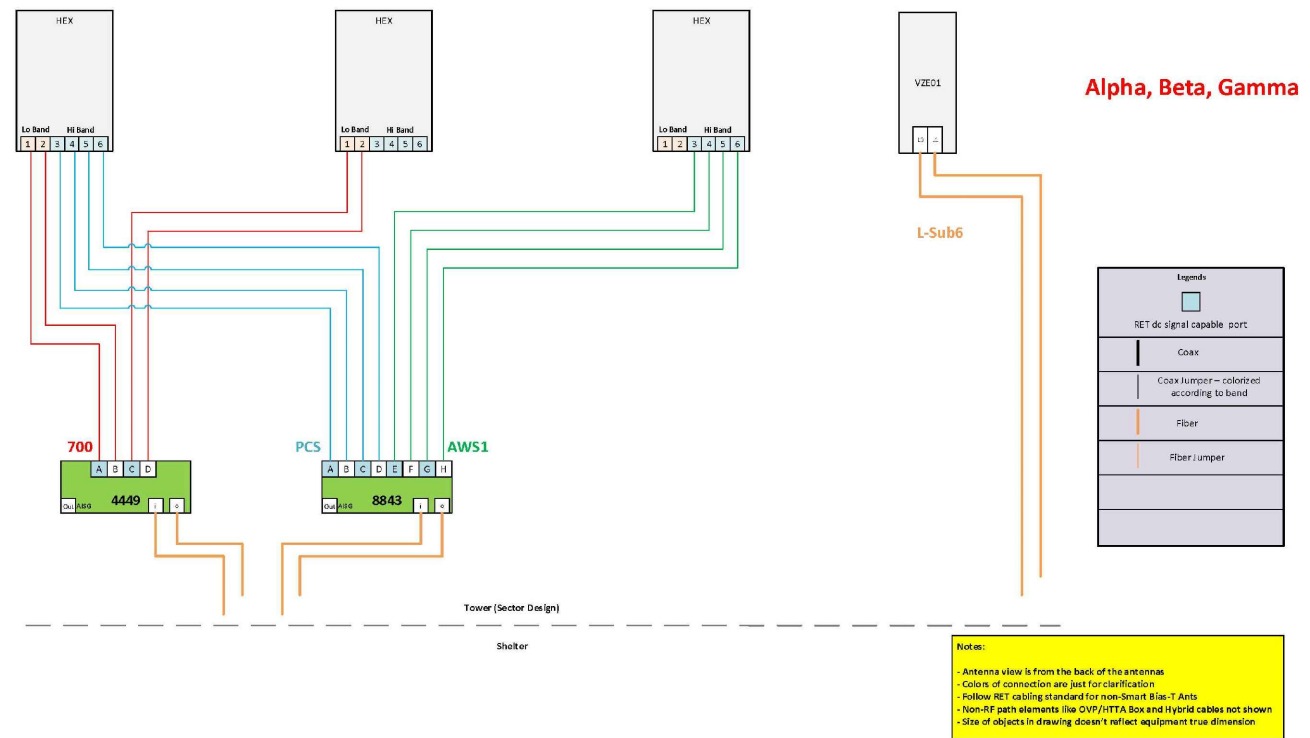
YES  NO

DATE OF REPORT: XX/XX/XX

EXISTING EQUIPMENT TO BE REUSED		
LOCATION	COMPONENT	COUNT
TOP	MAIN RAYCAP	3
BOTTOM	MAIN RAYCAP	2

EXISTING CABLING TO BE REUSED		
TYPE	SIZE	COUNT
HYBRID	MAIN TRUNK	3
COAX	N/A	0



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1 RAYCAP/HYBRID CABLE INFORMATION  
N.T.S.

2 CABLE DIAGRAM  
N.T.S.

**verizon**  
1701 GOLF ROAD,  
TOWER 2, SUITE 400  
ROLLING MEADOWS, IL 60008  
PHONE: (847) 619-5397  
FAX: (847) 706-7415

**TERRA**  
CONSULTING GROUP, LTD.  
600 BUSSE HIGHWAY  
PARK RIDGE, IL 60068  
PH: 847-898-6000  
FAX: 847-898-6401

NO.	DESCRIPTION	BY	TH	RA
		DATE		
1.	ISSUED FOR REVIEW			
	ISSUED FOR FINAL			

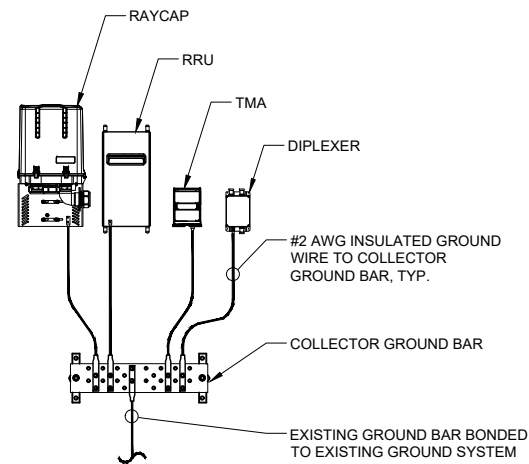
LOC. # 165883  
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1993 RIGER TRAIL  
WHEATON, IL 60189

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CHECKED BY:	AU
DATE:	10/13/20
PROJECT #:	124-975

SHEET TITLE  
COMBINER CABLE DATA  
& CABLE DIAGRAM

SHEET NUMBER  
**ANT-3A**



**NOTES:**

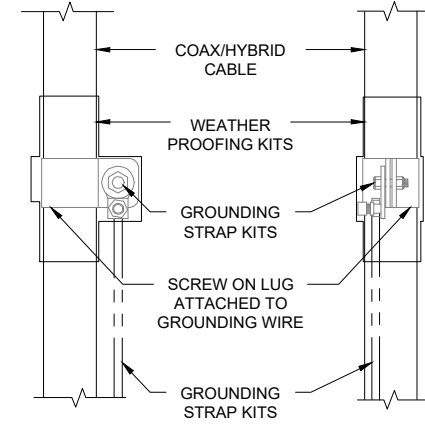
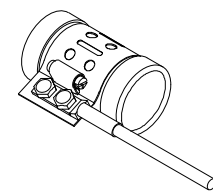
1. DETAIL IS CONCEPTUAL ONLY. PLEASE SEE ECR AND LAYOUT SHEETS FOR ACTUAL EQUIPMENT CONFIGURATION.
2. GROUND CONNECTIONS MUST BE DOUBLE HOLE CONNECTION. SPECIAL EXCEPTION ONLY TO EQUIPMENT THAT WILL NOT ALLOW FOR A DOUBLE HOLE CONNECTION.

**1** TYPICAL APPURTENANCE GROUNDING  
SCALE: N.T.S.

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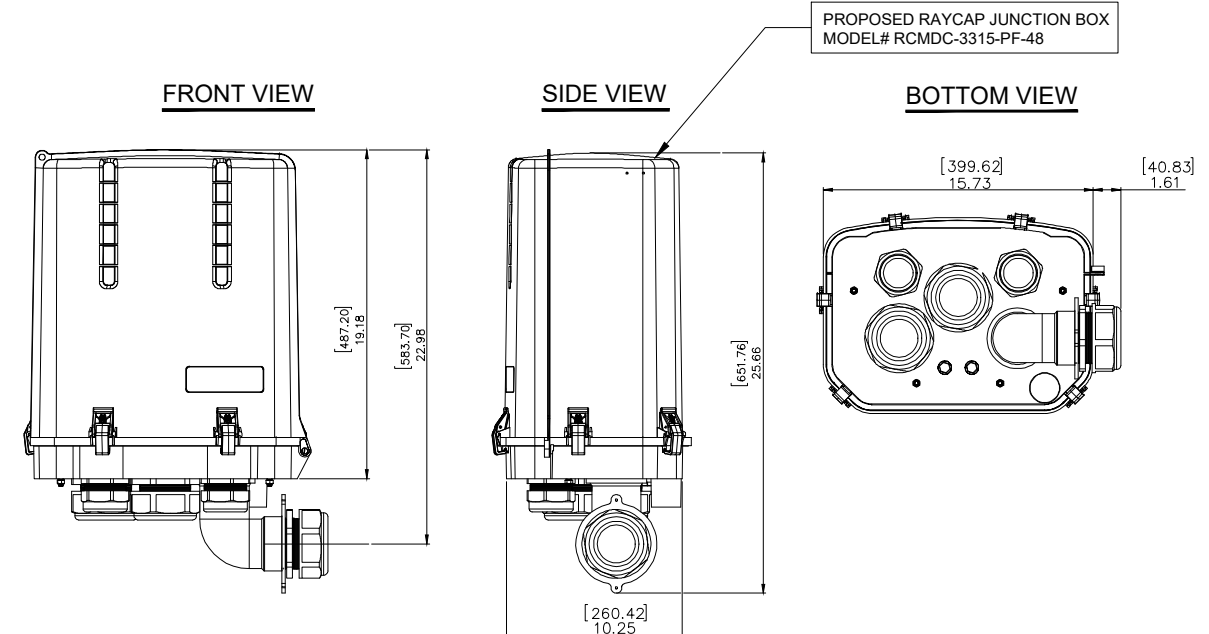
**NOTES:**

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. THIS DETAIL IS TYPICAL FOR EACH COAX CABLE WHERE IT IS SPECIFIED TO BE GROUNDING
3. CABLE TO BE GROUNDING AT ANTENNA LEVEL AND PRIOR TO ENTERING SHELTER ENTRY PANEL.
4. CABLE ALSO TO BE GROUNDING TO GROUND BAR AT TOWER BASE IF APPLICABLE.
5. USE ONLY TIN PLATED GROUNDING KITS.



**2** COAX / HYBRID CABLE GROUND KIT DETAIL  
N.T.S.

SPECIFICATIONS	DC SURGE PROTECTION FOR RRU/INTEGRATED ANTENNA RADIO HEAD	[mm]
APPLICATION:	TOWER / BASE / ROOFTOP / ROOFTOP DISTRIBUTION MODELS	INCHES
WEIGHT:	32LBS (14.51 KG)	



**3** RAYCAP JUNCTION BOX DETAIL  
SCALE: N.T.S.

**verizon**  
1701 GOLF ROAD,  
TOWER 2, SUITE 400  
ROLLING MEADOWS, IL 60008  
PHONE: (847) 619-5397  
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**TERRA**  
CONSULTING GROUP, LTD.  
600 BUSSE HIGHWAY  
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PH: 847-898-6000  
FAX: 847-898-6401

REVISIONS		DATE	BY	TH	RA
NO.	DESCRIPTION	12/11/2020			
1.	ISSUED FOR REVIEW	02/26/2021			
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**LOC. # 165883**  
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SHEET TITLE  
**DETAILS**

SHEET NUMBER  
**ANT-4**



GLS > Upper Midwest > Illinois/Wisconsin > Northern IL > HERRICK LAKE

Kim, Brian - brian.kim@verizonwireless.com - 9/14/2020 9:52:9

**Project Details**

Carrier Aggregation: false
MPT ID:
eCIP-0: false
Project Name: 5G L-Sub6 - Carrier Add
FUZE Project ID: 16229474
Designed Sector Carrier 4G: 14
Designed Sector Carrier 5G: 3
Additional Sector Carrier 4G: N/A
Additional Sector Carrier 5G: N/A
SiteTraker Project ID: a4K0H000000RoJoUAK
FP Solution Type & Tech Type: MODIFICATION;5G_L-Sub6-Prep
RFDS Project Scope:
Suffix:

**Location Information**

Site ID: 2391229
E-NodeB ID: 203311,2039153,0203311
PSLC: 165883
Switch Name: Elgin 1,Elgin 1,Elgin 1
Tower Owner:
Tower Type: Monopole
Site Type: MACRO
Street Address: 1993 Tiger Trail
City: Wheaton
State: IL
Zip Code: 60189
County: DuPage
Latitude: 41.835306 / 41° 50' 7.1016" N
Longitude: -88.151078 / 88° 9' 3.8808" W

**Antenna Summary**

Added																				
700	850	1900	AWS	AW53	28 GHz	31 GHz	39 GHz	CBRS	LAA	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	BET	Earth	Inst. Type	Quantity	
										5G	TBD	L-Sub6 Antenna	300	101.1	00001 120(002) 240(003)	false	false	PHYSICAL	3	
Removed																				
No data available.																				
Retained																				
700	850	1900	AWS	AW53	28 GHz	31 GHz	39 GHz	CBRS	LAA	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	BET	Earth	Inst. Type	Quantity	
LTE	LTE	LTE	LTE	LTE								COMMSCOPE	NHH-65C-R2B	100	104	00D11 120(D2) 240(D3)	false	false	PHYSICAL	9

Added: 3    Removed: 0    Retained: 9

**Equipment Summary**

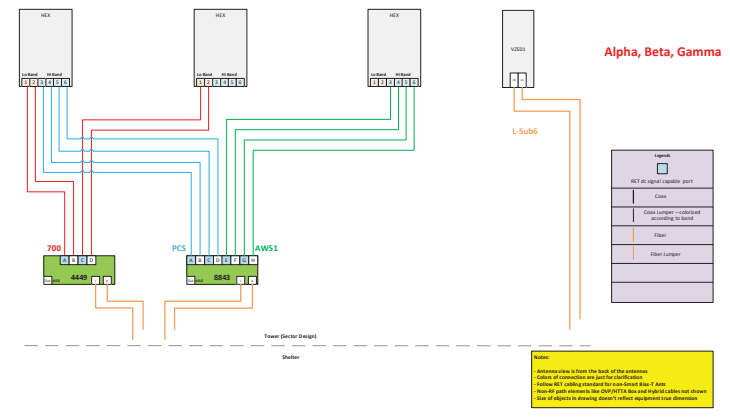
Added																		
Equipment Type	Location	700	850	1900	AWS	AW53	28 GHz	31 GHz	39 GHz	CBRS	LAA	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity
RRU	Tower											5G	Ericsson	VZ001			PHYSICAL	3
Removed																		
No data available.																		
Retained																		
Equipment Type	Location	700	850	1900	AWS	AW53	28 GHz	31 GHz	39 GHz	CBRS	LAA	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity
RRU	Tower	LTE	LTE										Ericsson	4449			PHYSICAL	3
RRU	Tower			LTE	LTE								Ericsson	8843			PHYSICAL	3
Hybrid Cable	Tower														6612		PHYSICAL	3
OVP Box	Tower														3315		PHYSICAL	3
OVP Box	Shelter														3315		PHYSICAL	1
OVP Box	Shelter														6627		PHYSICAL	1

**Service Info**

1900 MHz LTE													
Sector	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13
AdjAzimuth	0	120	240	0	120	240	0	120	240	0	120	240	0
Cell / ENode B ID	203311	203311	203311	203311	203311	203311	203311	203311	203311	203311	203311	203311	203311
Antenna Model	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B
Antenna Make	COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE
Antenna Centerline(Ft)	100	100	100	100	100	100	100	100	100	100	100	100	100
Mechanical Down-Tilt(Deg.)	0	0	0	0	0	0	0	0	0	0	0	0	0
Electrical Down-Tilt	2	2	2	2	2	2	2	2	2	2	2	2	2
Tip Height	104	104	104	104	104	104	104	104	104	104	104	104	104
Regulatory Power	477.36	477.36	558.92	477.36	477.36	558.92	477.36	477.36	558.92	477.36	477.36	558.92	477.36
TMA Make													
TMA Model													
RRU Make	Ericsson	Ericsson	Ericsson	Ericsson	Ericsson	Ericsson	Ericsson	Ericsson	Ericsson	Ericsson	Ericsson	Ericsson	Ericsson
RRU Model	8843	8843	8843	8843	8843	8843	8843	8843	8843	8843	8843	8843	8843
Number of Tx, Rx Lines	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4
Position													
Transmitter Id	747887	747888	747889	744479	744479	744480	744481	744482	744483	744484	744485	744486	744487
Source	ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API
2100 MHz LTE													
Sector	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13
AdjAzimuth	0	120	240	0	120	240	0	120	240	0	120	240	0
Cell / ENode B ID	203311	203311	203311	203311	203311	203311	203311	203311	203311	203311	203311	203311	203311
Antenna Model	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B
Antenna Make	COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE
Antenna Centerline(Ft)	100	100	100	100	100	100	100	100	100	100	100	100	100
Mechanical Down-Tilt(Deg.)	0	0	0	0	0	0	0	0	0	0	0	0	0
Electrical Down-Tilt	2	2	2	2	2	2	2	2	2	2	2	2	2
Tip Height	104	104	104	104	104	104	104	104	104	104	104	104	104
Regulatory Power	120.72	120.72	118.79	120.72	120.72	118.79	120.72	120.72	118.79	120.72	120.72	118.79	120.72
TMA Make													
TMA Model													
RRU Make	Ericsson	Ericsson	Ericsson	Ericsson	Ericsson	Ericsson	Ericsson	Ericsson	Ericsson	Ericsson	Ericsson	Ericsson	Ericsson
RRU Model	8843	8843	8843	8843	8843	8843	8843	8843	8843	8843	8843	8843	8843
Number of Tx, Rx Lines	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4
Position													
Transmitter Id	724879	724880	724881	744479	744479	744480	744481	744482	744483	744484	744485	744486	744487
Source	ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API
850 MHz LTE													
Sector	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13
AdjAzimuth	0	120	240	0	120	240	0	120	240	0	120	240	0
Cell / ENode B ID	203311	203311	203311	203311	203311	203311	203311	203311	203311	203311	203311	203311	203311
Antenna Model	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B
Antenna Make	COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE
Antenna Centerline(Ft)	100	100	100	100	100	100	100	100	100	100	100	100	100
Mechanical Down-Tilt(Deg.)	0	0	0	0	0	0	0	0	0	0	0	0	0
Electrical Down-Tilt	4	4	4	4	4	4	4	4	4	4	4	4	4
Tip Height	104	104	104	104	104	104	104	104	104	104	104	104	104
Regulatory Power	247.9	255.38	255.38	247.9	247.9	255.38	247.9	247.9	255.38	247.9	247.9	255.38	247.9
TMA Make													
TMA Model													
RRU Make	Ericsson	Ericsson	Ericsson	Ericsson	Ericsson	Ericsson	Ericsson	Ericsson	Ericsson	Ericsson	Ericsson	Ericsson	Ericsson
RRU Model	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449	4449
Number of Tx, Rx Lines	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4
Position													
Transmitter Id	74793	74794	74795	744479	744479	744480	744481	744482	744483	744484	744485	744486	744487
Source	ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API

700 MHz LTE						
Sector	001	002	003	001	002	003
AdmWth	0	120	240	0	120	240
Cell / ENode B ID	203311	203311	203311	203311	203311	203311
Antenna Model	NMH-65C-R2B	NMH-65C-R2B	NMH-65C-R2B	NMH-65C-R2B	NMH-65C-R2B	NMH-65C-R2B
Antenna Make	COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE	COMMSCOPE
Antenna Centerline(Ft)	100	100	100	100	100	100
Mechanical Down-Tilt(Deg.)	0	0	0	0	0	0
Electrical Down-Tilt	4	5	4	5	5	5
Tip Height	104	104	104	104	104	104
Regulatory Power	98.29	97.01	97.01	98.29	97.01	97.01
TMA Make						
TMA Model						
RISU Make	Ericsson	Ericsson	Ericsson	Ericsson	Ericsson	Ericsson
RISU Model	4449	4449	4449	4449	4449	4449
Number of Tx. Rx Lines	4,4	4,4	4,4	4,4	4,4	4,4
Position						
Transmitter Id	747892	747892	747892	744482	744483	744484
Source	ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API	ATOLL_API
850 MHz GSM						
Sector	001			002		
AdmWth	0			120		
Cell / ENode B ID	003311			003311		
Antenna Model	NMH-65C-R2B			NMH-65C-R2B		
Antenna Make	COMMSCOPE			COMMSCOPE		
Antenna Centerline(Ft)	100			100		
Mechanical Down-Tilt(Deg.)	0			0		
Electrical Down-Tilt	4			5		
Tip Height	104			104		
Regulatory Power	123.96			127.69		
TMA Make						
TMA Model						
RISU Make	Ericsson			Ericsson		
RISU Model	4449			4449		
Number of Tx. Rx Lines	4,4			4,4		
Position						
Transmitter Id	774214			774215		
Source	ATOLL_API			ATOLL_API		
4L-Sub6						
Sector	001			002		
AdmWth	0			120		
Cell / ENode B ID	003311			003311		
Antenna Model	L-Sub6 Antenna			L-Sub6 Antenna		
Antenna Make	TBS			TBS		
Antenna Centerline(Ft)	100			100		
Mechanical Down-Tilt(Deg.)	0			0		
Electrical Down-Tilt	3			3		
Tip Height	101.3			101.3		
Regulatory Power	120.12			118.79		
TMA Make						
TMA Model						
RISU Make	Ericsson			Ericsson		
RISU Model	V2E01			V2E01		
Number of Tx. Rx Lines	4,4			4,4		
Position						
Transmitter Id	744450			744451		
Source	ATOLL_API			ATOLL_API		

Service Comments





Paul J. Ford and Company  
 250 East Broad Street Suite 600  
 Columbus, OH 43215  
 (614) 221-6679  
 rkozak@pauljford.com

## Antenna Mount Analysis Report and PMI Requirements

Mount Analysis

SMART Tool #: 10016678

Paul J. Ford Project #: 24320-0304.001.7190

September 28, 2020

### Site Information

Site ID: 165883-VZW / HERRICK LAKE -- 2391229  
 Site Name: HERRICK LAKE -- 2391229  
 Carrier Name: Verizon Wireless  
 Address: 1993 Tiger Trail  
 Wheaton, Illinois 60189, DuPage County  
 Latitude: 41.835300°  
 Longitude: -88.151080°

### Structure Information

Tower Type: 104-Ft Monopole  
 Mount Type: 10.50-Ft Platform w/ Support Rail

FUZE ID # 16229474

### Analysis Results

10.50-Ft Platform w/ Support Rail      40.9% Pass

### \*\*\*Contractor PMI Requirements:

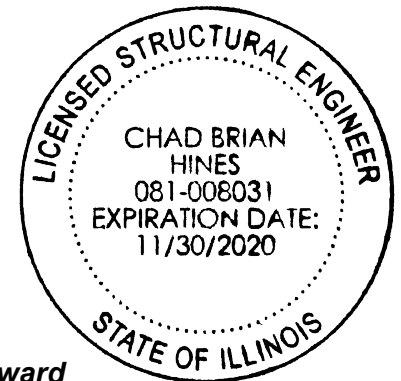
**Included at the end of this MA report**

**Available & Submitted via portal at <https://pmi.vzwsmart.com>**

**Contractor - Please Review Specific Site PMI Requirements Upon Award**

**Requirements also Noted on Mount Modification Drawings**

**Requirements may also be Noted on A & E drawings**



09/29/2020

Report Prepared By: Robert Kozak, P.E.

*RKD*

**Executive Summary:**

The objective of this report is to determine the capacity of the antenna support mount at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

This analysis is inclusive of the mount structure only, and does not address the structural capacity of the supporting structure. This mounting frame was not analyzed as an anchor attachment point for fall protection. All climbing activities are required to have a fall protection plan completed by a competent person.

**Sources of Information:**

Document Type	Remarks
<i>Radio Frequency Data Sheet (RFDS)</i>	<i>16229474, dated September 14, 2020</i>
<i>Previous Mount Analysis Report</i>	<i>Semaan, dated April 27, 2018</i>
<i>Mount Specification</i>	<i>Sabre, P/N # C10851001</i>
<i>Construction Drawings (Previous Project)</i>	<i>Terra, Project # 124-054, dated October 16, 2017</i>

**Analysis Criteria:**

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), $V_{ULT}$ : 107 mph
	Ice Wind Speed (3-sec. Gust): 40 mph
	Design Ice Thickness: 1.50 in
	Risk Category: II
	Exposure Category: C
	Topographic Category: 1
	Topographic Feature Considered: N/A
	Topographic Method: N/A
	Ground Elevation Factor, $K_e$ : 0.973
Seismic Parameters:	$S_s$ : 0.133
	$S_1$ : 0.065
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph
	Maintenance Live Load, $L_v$ : 250 lbs.
	Maintenance Live Load, $L_m$ : 500 lbs.
Analysis Software:	RISA-3D (V17.0.3)

### **Final Loading Configuration:**

The following equipment has been considered for the analysis of the mount:

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
97.00	100.00	9	Commscope	NHH-65C-R2B	Retained
		3	Ericsson	4449	
		3	Ericsson	8843	
		3	Raycap	RC3DC-3315-PF-48	
		3	Ericsson	VZE01	Added

### **Standard Conditions:**

1. All engineering services are performed on the basis that the information provided to Paul J. Ford and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Paul J. Ford to verify deviation will not adversely impact the analysis.
2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping and reported in the Mount Mapping Report are assumed to be corrected and documented as part of the PMI process and are not considered in the mount analysis.

The mount analysis and the mount mapping are not a condition assessment of the mount. Proper maintenance and condition assessments are still required post analysis.

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped by PJF, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.
4. 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.
5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.
6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Paul J. Ford is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.



7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
- Channel, Solid Round, Angle, Plate      ASTM A36 (Gr. 36)
  - HSS (Rectangular)                              ASTM 500 (Gr. B-46)
  - Pipe    ASTM A53 (Gr. B-35)
  - Threaded Rod                                      F1554 (Gr. 36)
  - Bolts    ASTM A325

**Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Paul J. Ford.**

**Analysis Results:**

<b>Component</b>	<b>Utilization %</b>	<b>Pass/Fail</b>
<i>Mount Pipe</i>	<i>40.9%</i>	<i>Pass</i>
<i>Support Rail</i>	<i>34.1%</i>	<i>Pass</i>
<i>Standoff</i>	<i>31.8%</i>	<i>Pass</i>
<i>Standoff Support</i>	<i>37.7%</i>	<i>Pass</i>
<i>Horizontal</i>	<i>29.0%</i>	<i>Pass</i>
<i>Corner Plate</i>	<i>8.3%</i>	<i>Pass</i>
<i>Mount to Tower Connection</i>	<i>28.9%</i>	<i>Pass</i>

<b>Structure Rating – (Controlling Utilization of all Components)</b>	<b>40.9%</b>
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**Recommendation:**

The existing mount is **SUFFICIENT** for the final loading configuration and do not require modifications.

ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other, if required. Separate review fees will apply.

**Attachments:**

1. Mount Photos
2. Mount Manufacturing Drawings
3. Analysis Calculations
- 4. Contractor Required Post Installation Inspection (PMI) Report Deliverables**
5. Antenna Placement Diagrams

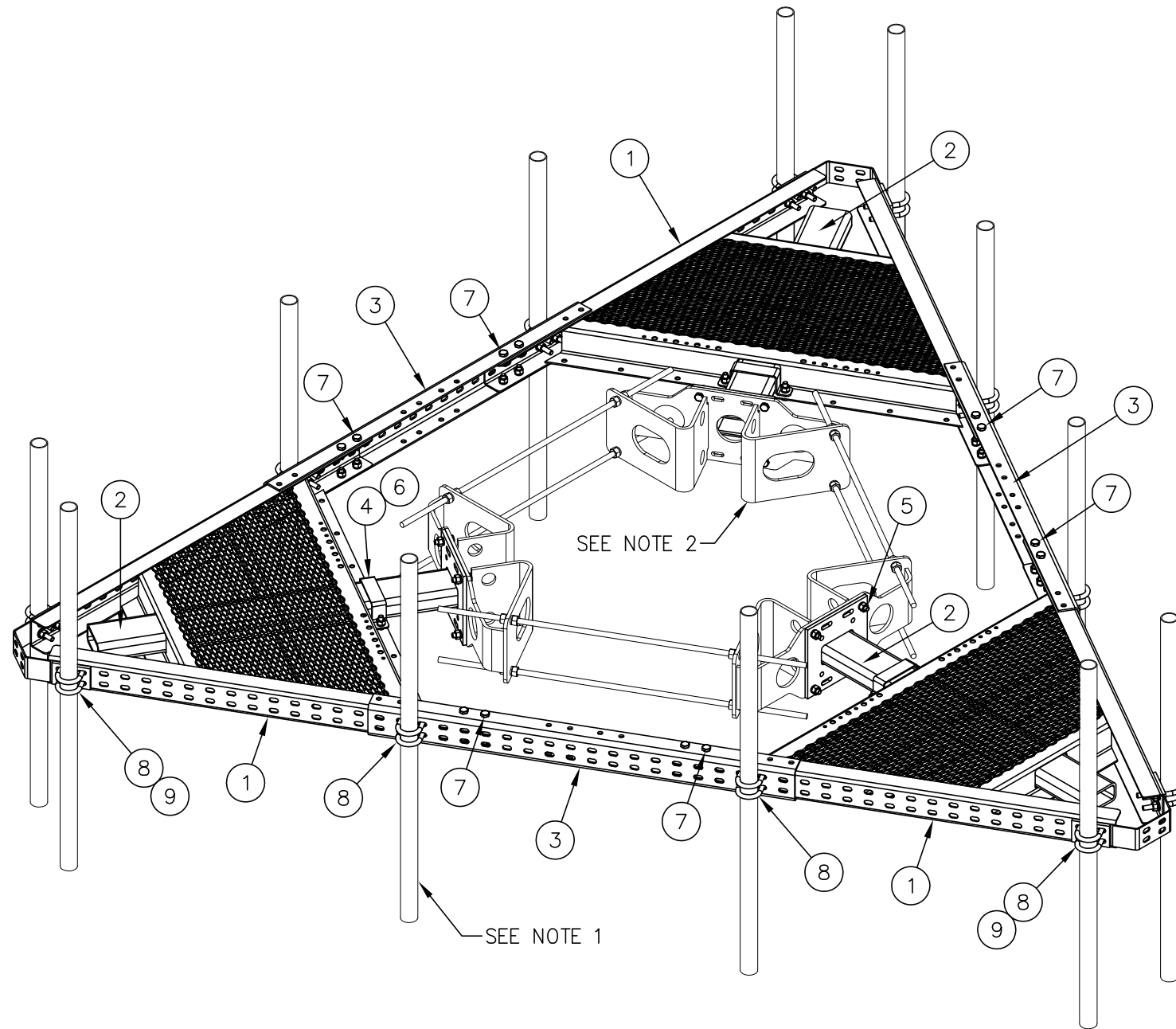




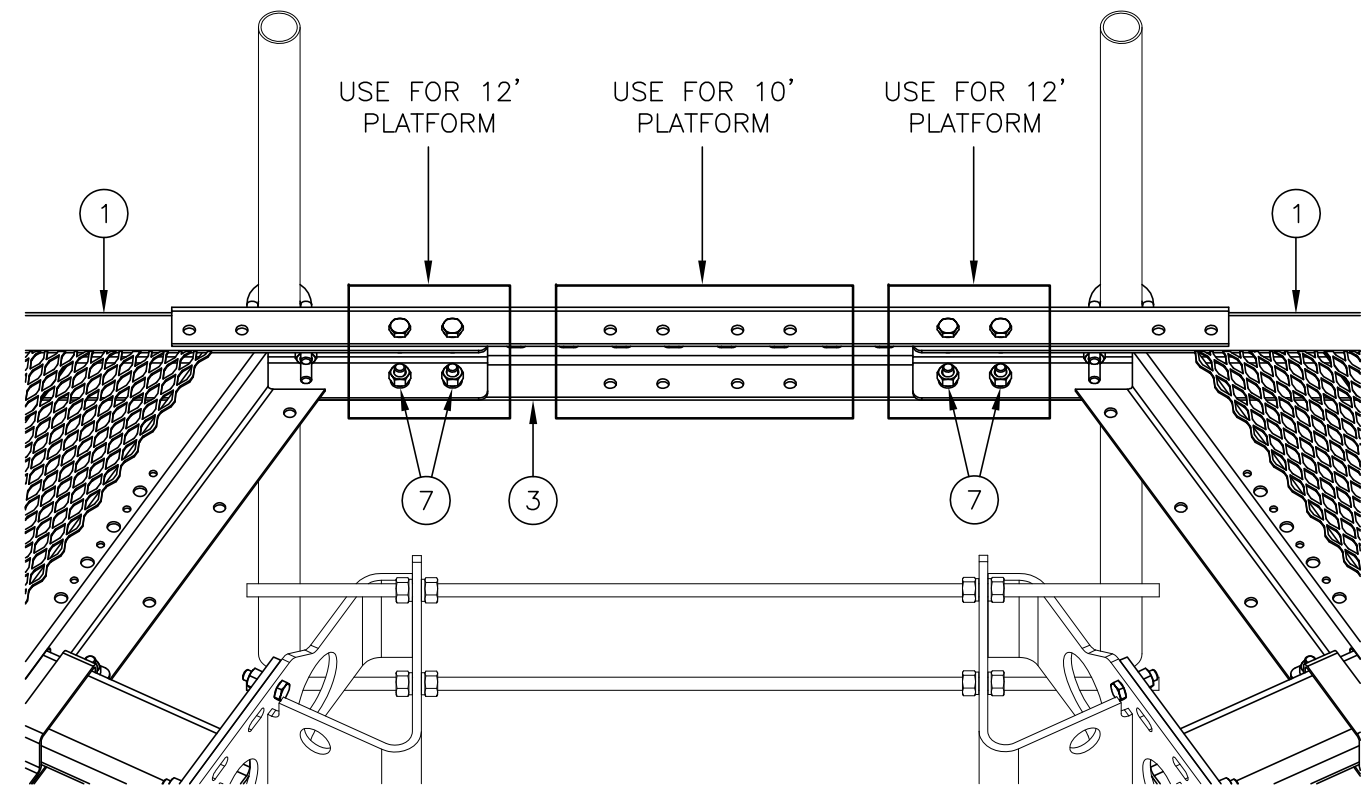
C10851001 10'-12' PLATFORM W/MOUNTING PIPE HARDWARE

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT
1.	3	CW00885	WELDMENT, CORNER PLATFORM	413
2.	3	CW00886	WELDMENT, PLATFORM ARM	309
3.	3	CS02247	CHANNEL, PLATFORM SPLICE	127
4.	3	CS02248	SADDLE CLAMP, PLATFORM	5
5.	12	C40026024	BOLT ASSEMBLY, 5/8 $\phi$ X 2 1/4 A325	6
6.	6	C40026023	BOLT ASSEMBLY, 5/8 $\phi$ X 2 A325	3
7.	24	C40026022	BOLT ASSEMBLY, 5/8 $\phi$ X 1 3/4 A325	11
8.	24	C40034023	U-BOLT ASSEMBLY, 5/8 $\phi$ X 3 1/16 C-C	40
9.	6	CS02317	PLATE, U-BOLT SPACER	14
TOTAL WEIGHT				928

NOTE:  
HARDWARE KIT CK00378 CONSISTS  
OF ITEMS 4 THRU 9 LISTED ABOVE



ISOMETRIC VIEW



PLATFORM ADJUSTMENT DETAIL

TO ADJUST THE PLATFORM FACE WIDTH, SLIDE THE CORNER WELDMENTS IN OR OUT TO THE CORRESPONDING HOLES ON THE PLATFORM CHANNEL SPLICE

NOTES:

- 2 3/8" O.D. MOUNTING PIPES MUST BE PURCHASED SEPARATELY.
- THE TRI-COLLAR BRACKET IS SHOWN TYPICAL AND MUST BE PURCHASED SEPARATELY.  
-USE TRI-COLLAR BRACKET C10112300 (10"-40" POLE)  
-USE TRI-COLLAR BRACKET C10112301 (12"-60" POLE)
- IF HANDRAILS ARE REQUIRED, THE FOLLOWING KITS MUST BE ORDERED SEPARATELY:  
-USE HANDRAIL KIT C10116812 FOR A 10' PLATFORM.  
-USE HANDRAIL KIT C10116813 FOR A 12' PLATFORM.

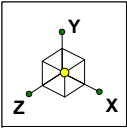
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:	
TOLERANCES: FRACTIONS $\pm 1/16"$ ANGLES $\pm 1/2$ DEG. DECIMALS $\pm .010"$		TOLERANCES DO NOT APPLY TO RAW MATERIAL	
REV	DATE	DRW/CHK	DESCRIPTION
3	9/1/11	DLW/DEL	REVISED ALL BOLT QUANTITIES AND NOTE 2
2	12/9/10	JKW/WJ	REVISED PART NUMBERS ON HANDRAIL KIT NOTE 3
1	2/3/10	MLC/MC	REDRAWN IN AUTOCAD



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10'-12' LOW PROFILE PLATFORM  
W/ANTENNA MOUNTING PIPE HARDWARE  
NO ANTENNA MOUNTING PIPES

DATE	10/22/09	SIZE	B	DRAWING NO.	C10851001	REV	3
DRAWN BY	JV	CHECKED BY	WMN	SCALE	None	PAGE	1 OF 1



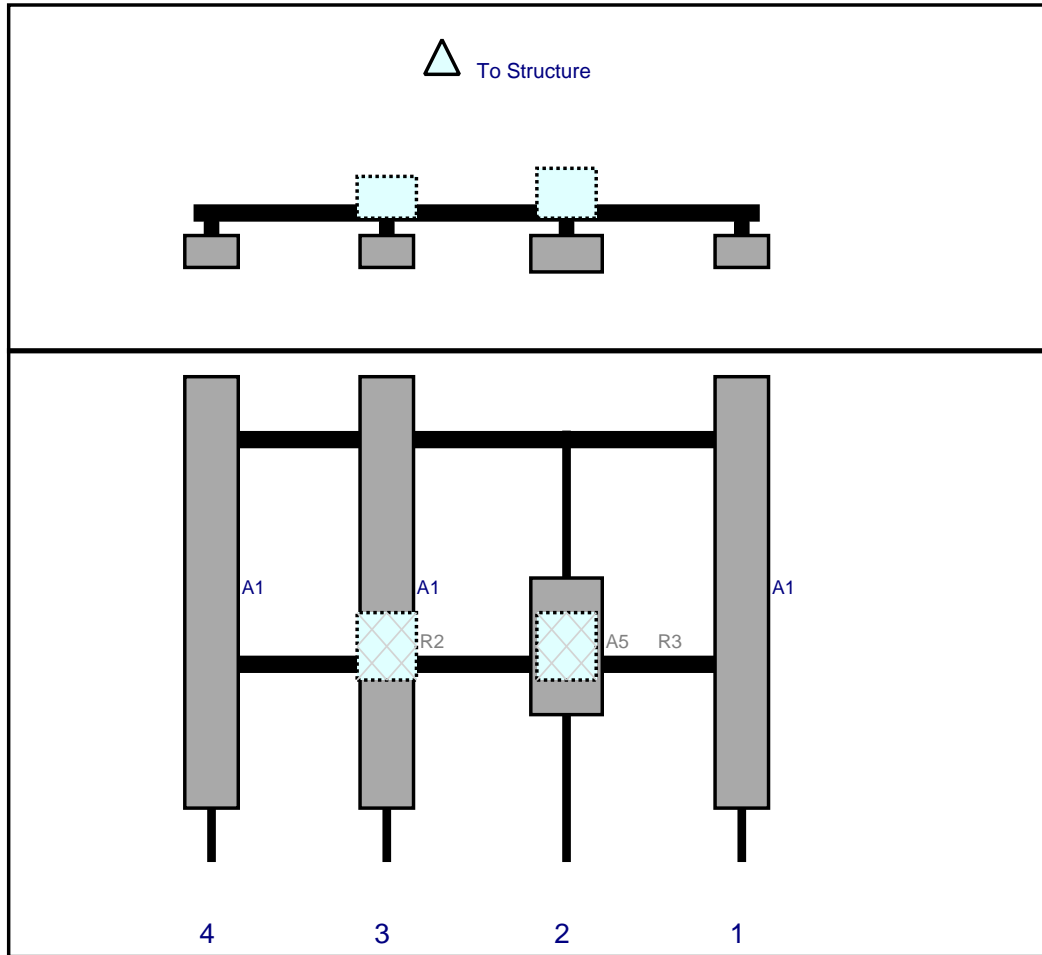
Paul J. Ford & Company  
RCK  
Project No. 10016678

165883-VZW\_MT\_LO\_H

SK - 3  
Sept 28, 2020 at 11:13 AM  
165883-VZW\_MT\_LO\_H.r3d

Sector: A  
 Structure Type: Monopole  
 Mount Elev: 97.00

Plan View



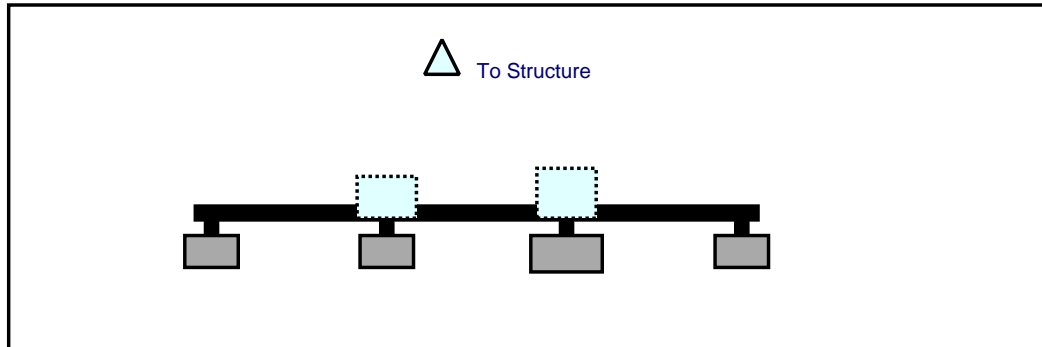
Front View  
 Looking at Structure

Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A1	NHH-65C-R2B	96	11.9	122	1	a	Front	36	0	Retained	
A5	VZE01	30.4	15.9	83	2	a	Front	48	0	Added	
R3	8843	15	13.2	83	2	a	Behind	48	0	Retained	
A1	NHH-65C-R2B	96	11.9	43	3	a	Front	36	0	Retained	
R2	4449	15	13.2	43	3	a	Behind	48	0	Retained	
A1	NHH-65C-R2B	96	11.9	4	4	a	Front	36	0	Retained	

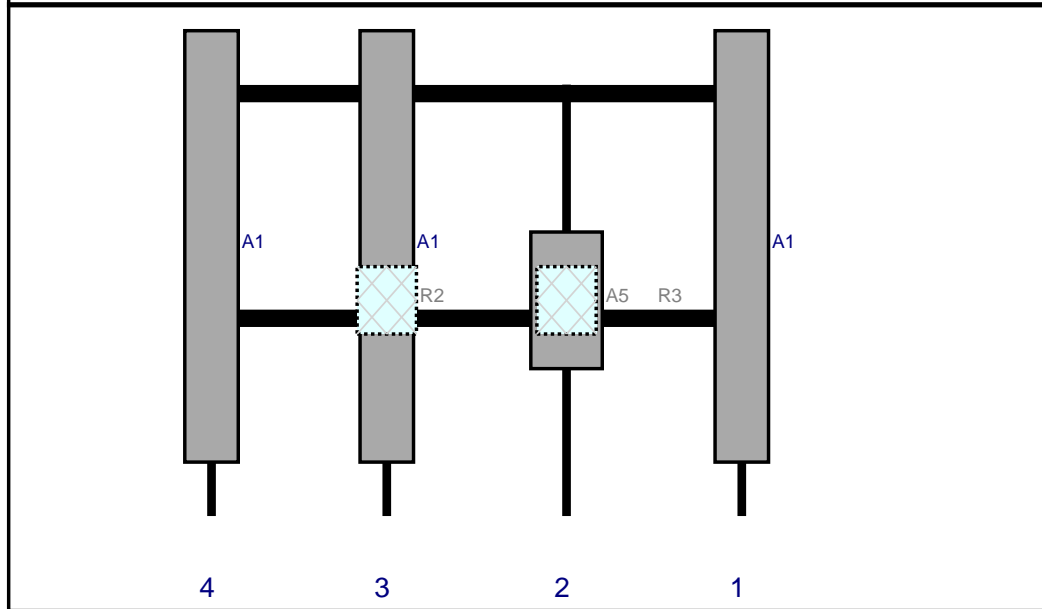
\*The Raycap equipment is located on the standoff members and is not shown in these diagrams.

Sector: **B**  
 Structure Type: Monopole  
 Mount Elev: 97.00

Plan View



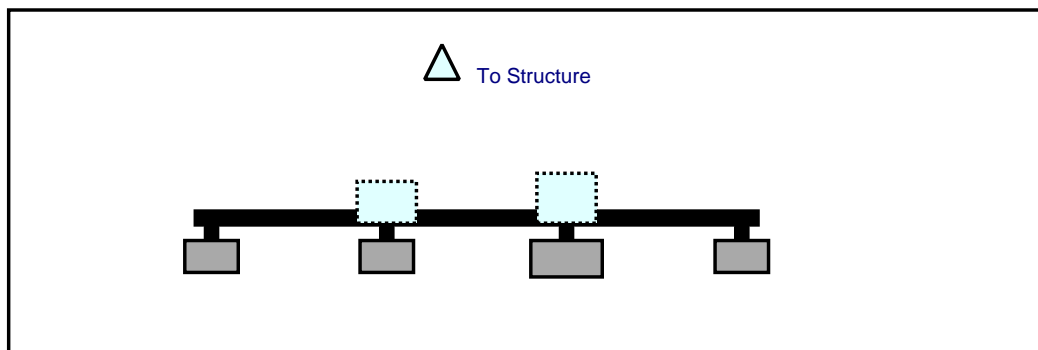
Front View  
Looking at Structure



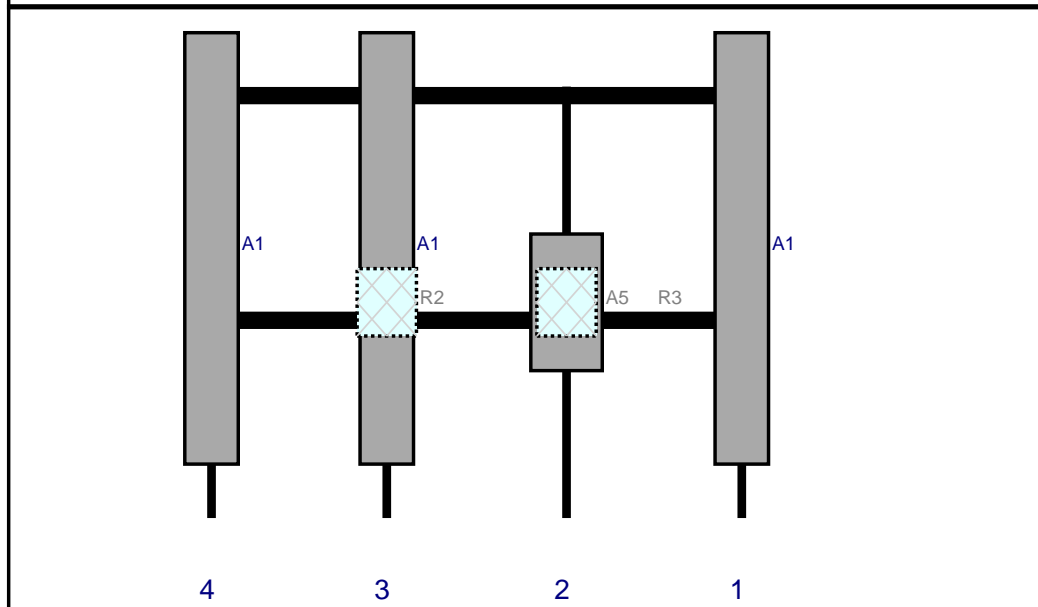
Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A1	NHH-65C-R2B	96	11.9	122	1	a	Front	36	0	Retained	
A5	VZE01	30.4	15.9	83	2	a	Front	48	0	Added	
R3	8843	15	13.2	83	2	a	Behind	48	0	Retained	
A1	NHH-65C-R2B	96	11.9	43	3	a	Front	36	0	Retained	
R2	4449	15	13.2	43	3	a	Behind	48	0	Retained	
A1	NHH-65C-R2B	96	11.9	4	4	a	Front	36	0	Retained	

Sector: C  
 Structure Type: Monopole  
 Mount Elev: 97.00

Plan View



Front View  
 Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A1	NHH-65C-R2B	96	11.9	122	1	a	Front	36	0	Retained	
A5	VZE01	30.4	15.9	83	2	a	Front	48	0	Added	
R3	8843	15	13.2	83	2	a	Behind	48	0	Retained	
A1	NHH-65C-R2B	96	11.9	43	3	a	Front	36	0	Retained	
R2	4449	15	13.2	43	3	a	Behind	48	0	Retained	
A1	NHH-65C-R2B	96	11.9	4	4	a	Front	36	0	Retained	