			App	lication Date	C.U.P Nur	nber
Dane County	Dormalit		0	1/23/2019	DCPCUP-201	9-02456
Conditional Us	se Permit		Public Hearing Date		Dec e e e e	
Application			0	3/26/2019		
OWNE	R INFORMATION				AGENT INFORMATI	ON
OWNER NAME DENNIS V NOLDEN		Phone with Area Code (608) 445-75	548 AG	ENT NAME JG TUSSEL W	IRELESS	Phone with Area Code (608) 328-4849
BILLING ADDRESS (Number, S 484 FRITZ RD	Street)		AD 41	DRESS (Number, Str 7 PINE STREET	reet) P.O. BOX 1060	
(City, State, Zip) BELLEVILLE, WI 53508			(Cit Gr	ty, State, Zip) een Bay, WI 543	305-1060	
E-MAIL ADDRESS ddlmnolridge@wildblue.n	let		E-N Br	AIL ADDRESS entt.Michalek@b	ougtusselwireless.com	
ADDRESS/LOO	CATION 1	ADDRESS	LOCA	TION 2	ADDRESS/LC	CATION 3
ADDRESS OR LOCA	TION OF CUP	ADDRESS OF	RLOCA	TION OF CUP	ADDRESS OR LOO	ATION OF CUP
Immediately east of 48	4 Fritz Rd					-
TOWNSHIP MONTROSE	SECTION 30	TOWNSHIP		SECTION	TOWNSHIP	SECTION
PARCEL NUMBERS	S INVOLVED	PARCEL NU	PARCEL NUMBERS INVOLVED		PARCEL NUMBE	RS INVOLVED
0508-301-9	001-1					
		CUP D	ESCRI	PTION		
250' Guyed Communic	ation Tower					
	DANE CO	DUNTY CODE OF O	RDINA	NCE SECTION		ACRES
10.194		-				0.23
		DEED RESTRICT REQUIRED?		Inspectors Initials	SIGNATURE:(Owner or A	igent)
		I Yes 🕅	No	0101	NUU	L
		Applicant Initials			PRINT NAME:	Michalak
					Drento I. I.	in challer
					1/29/20	19
						Form Version 01.00.02

RELESS

P.O. Box 1060 417 Pine Street

December 12, 2018

RE: Zoning Letter for Bug Tussel Wireless site in the Town of Montrose

To Whom It May Concern:

Bug Tussel Wireless is a wireless company that provides internet and voice coverage in rural areas. The towers that are build have the capability of high speed internet, mobile voice service, and mobile data service. In addition to providing wireless internet to rural areas, these towers will also expand the federal governments First Responder Network Authority (also known as FirstNet) and a major wireless service provider in your area. If you are unfamiliar with what FirstNet is, when completed it will be a nationwide public safety broadband network to provide first responders (police, fire and emergency medical services) advanced communication and collaboration technologies. Accordingly, the U.S. federal government has contracted a major wireless service provider to build the nationwide network to facilitate communications for future events, whether they be caused by nature or man, to help save lives and protect communities.

Included in this packet are:

- Dane County CUP Application
- Completed Communication Tower Information Form (CTIF)
- Written Statement
- Site Plan, Design Elevations, Site Photos, and Photo Simulations
- Radiofrequency Engineering Analysis
- RF-EME Measurements and Compliance Report
- Legal Description
- · Zoning for the proposed and surrounding parcels
- Tax Parcel Number
- Fees submitted on October 12, 2018 .

Within the RF-EME study you will find details identifying our compliance with FCC guidelines for General Population environments.

Sincerely.

Brentt P. Michalek **Business Development Representative Bug Tussel Wireless** 417 Pine Street Green Bay, WI 54301 920-328-4948 brentt.michalek@bugtusselwireless.com



Legend

Wetland > 2 Acres Significant Soils

Wetland Floodplain Class 1 Class 2



0 75 150 300 Feet

CUP 02456 DENNIS V NOLDEN

COMMUNICATION TOWER INFORMATION FORM (CTIF)

CONTACTS										
Property Owner's I	Name			Dennis	s and Lisa Nolden					
Property Owner's Mailing Address	Owner's 484 Fritz Road Address Street				Belleville			WI State	53508 ZIP	
Property Owner's l	Phone N	umber		(608) 445	-7548				
Agent's Name & A	ffiliatio	n		Brentt I	P. Michalel	c - Site	Aquisition Manager			
Agent's Relationsh	ip to Pro	operty Ow	ner	Agent f	or Bug Tus	sel Wire	eless			
Agent's Relationsl service provider, si	nip to t te acqui	he Propos sition firm	sed Tov , tower	ver (e.g builder,	. wireles etc.)	^S Wir	eless Serviced Prov	ider		
Agent's Mailing A	ddress	417 Pine	Street St	reet		Gre	en Bay City		WI State	54301 ZIP
Agent's Phone Nur	nber			(920)) 32	8-4948				
PROPOSED ACTION										
Current Zoning	A1 Exc	Exclusive Ag				CUP	CUP Acres 100' >		< 100' or 10,000 Sq Ft	
Proposed Zoning (only if re	ezoning)	N/A All	owed by	Conditional Use Rezone Acres (if applicable			cable)	N/A	
Have the property owner and the agent/tower spor				ver spon Please	usor formally completed a binding attach a letter from the property			g 🕻	Yes	No
owner(s) consentin	g to the	applicatio	n.					,	Circle One	
If applicable, does	the lease	e area coir	cide wi	th the pr	e proposed CUP area?			(Yes	No
									Circle One	
LOCATION										
Town					Montrose					
PLSS location (To	wnship,	Range, ¹ /4	¹ / ₄ Sect	ion)	Township 5 N, Range 8 E, Section 30 SW 1/4 of NE 1/4					
Parcel Number(s)				040-0508-301-9001-1						
Street Address (or Proximity to Nearest Address)				484 Fritz Road Belleville, WI 53508						
Coordinates in Dec (00.000000 Lat., -	imal De 00.0000	egrees 00 Long.)			42.881106 -89.587500					
Is the subject prop	perty loo	cated in th	ne Heig	ht Limi	itation Zoning Overlay District (HLZO), Yes			No		
roughly within thre	e miles	of the Dar	ne Coun	ty Regio	onal Airpo	ort (che	ck with Zoning st	att)?		Circle One

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210 Martin Luther King Jr. Blvd. 🛠 Room 116, City-County Bldg. 🛠 Madison, WI 53703-3342 🛠 Phone: 608.266.4266 🛠 Fax: 608.267.1540

TOWER DETAILS								
Applicant's Intended Purpose of Tower (e.g. coverage, capacity, other). Explain. Fixed wireless for internet, AT&T wireless phone, FirstNet Coverage.								
Type of Tower (e.g. monopole, self	-support	lattice, guy	ed latti	ce, etc.) Guyed	l lattice		
Above Ground Level (AGL) He potential).	eight (ft	.) (i.e. max	ximum	desig	n 250'			
Base/Ground Elevation (ft.)					995'			
What is the "fall-down radius" (ft.)	of the p	roposed tow	er?	To ^r of	wer is design tower.	ned for a fall i	radius of 175' fro	om center
Technology to be Initially Sited or Cellular, PCS, Radio, Television, M	the Prolice	posed Towe re, etc.) ⁴	er (e.g	· Ce	llular			
Number & elevation (Feet AC Antenna Arrays to be Accommodat	L) of ed	246' 1	23	55' 2	225' 3	215' 4	5	6
Is the primary sponsor of this tower a wireless service provider or a tower builder?	s the primary sponsor of this tower a wireless service provider or a ower builder?							
To the best of the applicant's knowledge, will this tower be lighted?	Yes Circle	No e One	If ap great light	plicable test exte ed.	e, please ex ent known i	plain in the n what mar	box below to nner the tower	the will be
Lighting Configuration: Per FAA reg	gulations	red beacon at	approx	imately 2	250' and mid	beacon (whi	ite) at approxima	ately 160'.
Are there any mitigation measures being taken to minimize the visual impact of this tower? If so, explain. Attach an additional page if necessary. Yes, The placement of the tower and compound were chosen to be behind wooded fence lines. The east fence line will shield the east side of the compound and south fence line will shield the south side of the compound.								
PRELIMINARY INFORMATION ON OPTIONS FOR COLLOCATION ⁵								
What search area radius was used to determine the location of the proposed tower? 1.5 Miles								
Are there any existing towers or other potentially suitable structures in excess of 80 feet in height within a 1.5 mile radius? If yes, how many structures total are there?					n ? Yes	No		
proximity to the proposed tower.			ing the		ni or these		Circl	le One
Has the applicant examined each of array can or may be located on the	of the states of the structure	ructures not?	ed abo	ove to d	letermine if	f an antenn	a Yes Circl	le One

⁵ Note that more detailed information regarding options for collocation and addressing s. 10.194(2) of the Dane County Code of Ordinances is required in the *Written Statement*.

⁴ Note that this statement in itself does not necessarily preclude in the future the placement of alternative technologies on this structure.

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etc.). Attach additional pages if necessary.						
 The SBA tower located at Hwys 92 & 69 is not tall enough to send the wireless internet signal to the other sites in the designed network. 160' is open on the monopole but the network requires 250'. 						
2.						
3.						
4.						
SUBJECT PROPERTY AND SURROUNDING AREA						
What is the current, primary use of the subject property (e.g. residential, agricultural, commercial, etc.)?	Subject property is zoned A-1 I open land and woodland uses 34 acres.	Ex. Ag. with re on the 3 parce	sidential, Is totaling			
What are the current, primary uses of all properties adjacent to the subject property?	The primary use of surrounding properties are agricultura in nature with some residences.					
What is the current zoning of all properties adjacent to the subject property?	Primarily A-1 Ex. Ag. with some Residential properties nearby. Other properties on the surrounding locations include open land and woodlands.					
How far (in feet) is the proposed tower from the nearest structur (not on subject property)? What is the current use of the structure	re on an adjacent property e?	1,797 Feet	Shed			
Are there any small, private airports within a 3-mile radius of the proposed tower? If yes,		Yes	No			
give the name(s) and distance(s) in the box below.			One			
Name(s) and Distances of Private Airports:						
Per AirNAV.com, the closest "airports" are:						
* Sugar Ridge Airport 5.61 miles north of the subject site.						

Assign a number to each of the existing structures noted above and briefly explain in the spaces below why each one will not accommodate the proposed antenna array (e.g. structurally incapable, owner unwilling to enter into a lease,

If applicable, have the listed private airports within a 2 mile radius of the proposed t

* Storytown Airfield 7.81 miles northeast of subject site.

If applicable, have the listed private airports within a 3-mile radius of the proposed tower Ves Circle One

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PLANNING DEVELOPMENT

Conditional Use Application

Zoning Division Room 116, City-County Building 210 Martin Luther King Jr. Blvd. Madison, Wisconsin 53703-3342 Phone: (608) 266-4266 Fax: (608) 267-1540

Application Fee: \$486 Mineral Extraction: \$1136

Items required to be submitted with application:

- Written Legal Description of Conditional Use Permit boundaries
- Scaled drawing of the property showing existing/proposed buildings, setback requirements, driveway, parking area, outside storage areas, location/type of exterior lighting, any natural features, and proposed signs.
- Scaled map showing neighboring area land uses and zoning districts
- Written operations plan describing the items listed below (additional items needed for mineral extraction sites)
- Written statement on how the proposal meets the 6 standards of a Conditional Use

	Owner Dennis and Lisa Nolden		Brentt P. Michalek agent for Bug Tussel		
Address	484 Fritz Road	Address	417 Pine Street, PO BOX 1060 Green Bay, WI 54305-1060		
Dhone	Belleville, WI 53508	Dhana			
Phone	608-445-7548	Phone	608-328-4849		
Email	ddlmnolridge@wildblue.net	Email	Brentt.Michalek@bugtu	usselwireless.com	
Parcel nu	mbers affected: 040/0508-301-9001-1	Town:	Montrose	Section: 30-5-8	
		- Propert	v Address: 484 Fritz R	Road, Belleville, WI	
Existing	Proposed Zoning District :	ral			
Existing F	e of Activity proposed: Fixed wireless inter	ral	ommunication tower. Des	ired Height is 250'	
Type Hou	Proposed Zoning District : <u>A-1EX Exclusive Agricultur</u> e of Activity proposed: Fixed wireless inter urs of Operation ^{24/7/365} nber of employees N/A	net and mobile c	ommunication tower. Des	ired Height is 250'	
Type Hou Nun Anti	Proposed Zoning District : <u>A-1EX Exclusive Agricultur</u> e of Activity proposed: Fixed wireless inter urs of Operation ^{24/7/365} nber of employees N/A icipated customers Anyone within range of the	ral net and mobile c signal.	ommunication tower. Des	ired Height is 250'	
o Type o Hou o Hou o Anti o Outs	Proposed Zoning District : <u>A-1EX Exclusive Agricultur</u> e of Activity proposed: Fixed wireless inter urs of Operation ^{24/7/365} nber of employees N/A icipated customers Anyone within range of the side storage None	ral net and mobile of signal.	ommunication tower. Des	ired Height is 250'	
• Type • Hou • Nun • Anti • Outs • Outs	Proposed Zoning District : <u>A-1EX Exclusive Agricultur</u> e of Activity proposed: Fixed wireless inter urs of Operation ^{24/7/365} nber of employees N/A icipated customers Anyone within range of the side storage None door activities Occasional Maintenance	ral net and mobile c signal.	ommunication tower. Des	ired Height is 250'	
• Type • Hou • Nun • Anti • Outs • Outs • Outs	Proposed Zoning District : <u>A-1EX Exclusive Agricultur</u> e of Activity proposed: Fixed wireless inter urs of Operation 24/7/365 nber of employees N/A icipated customers Anyone within range of the side storage None door activities Occasional Maintenance door lighting Approximately 250' Red Beacon and A	ral net and mobile c signal. opproximately 150	ommunication tower. Des	ired Height is 250' FAA regulations.	
 Existing) Type Hou Nun Anti Outs Outs	Proposed Zoning District : <u>A-1EX Exclusive Agricultur</u> e of Activity proposed: Fixed wireless inter urs of Operation 24/7/365 nber of employees N/A icipated customers Anyone within range of the side storage None door activities Occasional Maintenance door lighting Approximately 250' Red Beacon and A side loudspeakers None	net and mobile controls an	ommunication tower. Des 0' White Beacon per the l	ired Height is 250' FAA regulations.	
 Existing F Type Hou Nun Anti Outs Outs Outs Prop Tras 	Proposed Zoning District : <u>A-1EX Exclusive Agricultur</u> e of Activity proposed: Fixed wireless inter urs of Operation 24/7/365 nber of employees N/A icipated customers Anyone within range of the side storage None door activities Occasional Maintenance door lighting Approximately 250' Red Beacon and A side loudspeakers None posed signs Small site name and safety signs on the sh removal Occasionally after construction is comple	al net and mobile c signal. spproximately 150 s 50' x 50' fenced ted.	ommunication tower. Des)' White Beacon per the l	ired Height is 250'	

Six Standards of a Conditional Use Permit

Provide an explanation on how the proposed land use will meet all six standards.

1. The establishment, maintenance or operation of the conditional use will not be detrimental to or endanger the public health, safety, comfort or general welfare.

The establishment, maintenance, and operation of the fixed wireless facility will not be detrimental or endanger the public. We feel these wireless services will enhance public safety and health. We believe these services will enrich the public's comfort and general welfare. This tower will help make smaller communities economically viable for small businesses while keeping the desired quality of life with improved technological amenities.

The uses, values and enjoyment of other property in the neighborhood for purposes already permitted shall be in no foreseeable manner substantially impaired or diminished by establishment, maintenance or operation of the conditional use.

The farming uses, rural values and quiet enjoyment of other properties in the immediate area will continue as before. The fixed wireless facility shall have no foreseeable effect on these being impaired or diminished by the establishment, maintenance or operation of the conditional use.

3. That the establishment of the conditional use will not impede the normal and orderly development and improvement of the surrounding property for uses permitted in the district.

The establishment of the conditional use will not impede the normal and orderly development nor the improvement of the surrounding properties.

 That adequate utilities, access roads, drainage and other necessary site improvements have been or are being made.

Adequate electric power consisting of a minimum of 600 amp single phase service connected to a 3 meter H-frame is proposed. This is the only utility required presently and will be run along our 30' wide utility easement that follows the access drive. The gravel access road will be constructed off Fritz Road. The 50' x 50' fenced in compound will have a gravel floor with a small concrete pad for outdoor cabinets will have adequate drainage.

 Adequate measures have been or will be taken to provide ingress and egress so designed as to minimize traffic congestion in the public streets.

Ingress and Egress from the fixed wireless site is via a 12' wide gravel access road along an easement. The access road is east of the owners' 484 Fritz Road residence. We are constructing the access road driveway on Montrose Road. The closest other driveway is 590' southwest of the access road driveway.

6. That the conditional use shall conform to all applicable regulations of the district in which it is located.

This the conditional use permit shall conform to the applicable regulations in the A-1EX Exclusive Agricultural District. The proposed conditional use will keep intact the desired intent of preserving farm land. It will meet all the standards of Montrose Township and Dane County.

CONDITIONAL USE APPLICATION

Town of Montrose 1341 Diane Avenue, Belleville WI 53508 608-424-3848 Office/Fax www.townofmontrose.com PLEASE PRINT CLEARLY

Application Fee: \$125

Please make check payable to the Town of Montrose

Please complete application and return with application fee<u>two weeks</u> prior to the Land Use Committee Meeting. Land Use Committee meets the fourth Monday of each month.

Owner(s) Name:	Dennis and Lisa Nolden
Property Address:	484 Fritz Road Belle ville , WI 53508
Mailing Address (i	f different from property address): Bug Tussel Brentt P. Michalek 417 Pine Street Green Bay, WI 54301
Phone: Home: 602	Cell: Agent Phone: 920-328-4948

Items required to be submitted with application:

- 1. Description of Purpose.
- 2. Legal description of parcel in question.
- 3. Map or sketch of parcel (professional, scaled drawing not necessary)
 - a. Road Cuts
 - b. Dimension of Land (including proposed division, if applicable)
 - c. Location of Structures
- 4. Miscellaneous Information:
- 5. Type of Activity Proposed:

Hours of Operation, Number of Employees, Anticipated Customers, Outside Storage, Outdoor Activities, Outdoor Lighting, Outside Loudspeakers, Proposed Signs, Trash Removal, Six Standards of CUP (see back)

I/We hereby agree to proceed in accordance with the Town of Montrose ordinances and land use plans.

Grentt P. Michatek Agent for Bug Tussel enature

Date Signed

Date Signed

Office Use Only

Town Clerk

Signature

Date Application Received

 Date Paid:

 Land Use Committee Action: Approved or Disapproved
 Town Board Action: Approved or Disapproved

Six Standards of a Conditional Use Permit

Provide an explanation on how the proposed land use will meet all six standards.

1. The establishment, maintenance or operation of the conditional use will not be detrimental to or endanger the public health, safety, comfort or general welfare.

The establishment, maintenance, and operation of the fixed wireless facility will not be detrimental or endanger the public. We feel these wireless services will enhance public safety and health. We believe these services will enrich the public's comfort and general welfare. This tower will help make smaller communities economically viable for small businesses while keeping the desired quality of life with improved technological amenities.

 The uses, values and enjoyment of other property in the neighborhood for purposes already permitted shall be in no foreseeable manner substantially impaired or diminished by establishment, maintenance or operation of the conditional use.

The farming uses, rural values and quiet enjoyment of other properties in the immediate area will continue as before. The fixed wireless facility shall have no foreseeable effect on these being impaired or diminished by the establishment, maintenance or operation of the conditional use.

That the establishment of the conditional use will not impede the normal and orderly development and improvement of the surrounding property for uses permitted in the district.

The establishment of the conditional use will not impede the normal and orderly development nor the improvement of the surrounding properties.

 That adequate utilities, access roads, drainage and other necessary site improvements have been or are being made.

Adequate electric power consisting of a minimum of 600 amp single phase service connected to a 3 meter H-frame is proposed. This is the only utility required presently and will be run along our 30' wide utility easement that follows the access drive. The gravel access road will be constructed off Fritz Road. The 50' x 50' fenced in compound will have a gravel floor with a small concrete pad for outdoor cabinets will have adequate drainage.

 Adequate measures have been or will be taken to provide ingress and egress so designed as to minimize traffic congestion in the public streets.

Ingress and Egress from the fixed wireless site is via a 12' wide gravel access road along an easement. The access road is east of the owners' 484 Fritz Road residence. We are constructing the access road driveway on Montrose Road. The closest other driveway is 590' southwest of the access road driveway.

6. That the conditional use shall conform to all applicable regulations of the district in which it is located.

This the conditional use permit shall conform to the applicable regulations in the A-1EX Exclusive Agricultural District. The proposed conditional use will keep intact the desired intent of preserving farm land. It will meet all the standards of Montrose Township and Dane County.

100' X 100' LEASE AREA DESCRIPTION CUP AREA DESCRIPTION

A PORTION OF LAND LOCATED IN THAT PART OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER (SW1/4 - NE1/4) OF SECTION 30, TOWNSHIP 5 NORTH, RANGE 8 EAST, IN THE TOWN OF MONTROSE, DANE COUNTY, WISCONSIN, AND BEING FURTHER DESCRIBED AS FOLLOWS:

COMMENCING AT A FOUND 1" IRON ROD LOCATING THE NORTH QUARTER CORNER OF SAID SECTION 30; THENCE N89° 51' 56"E, 1079.53 FEET ALONG THE NORTH LINE OF THE NORTHEAST QUARTER OF SAID SECTION 30; THENCE S0° 00' 00"E, 1735.19 FEET TO THE POINT OF BEGINNING; THENCE N90° 00' 00"E, 100.00 FEET, THENCE S0° 00' 00"E, 100.00 FEET; THENCE N90° 00' 00"W, 100.00 FEET; THENCE N0° 00' 00"E, 100.00 FEET TO THE POINT OF BEGINNING. SAID PROPOSED LEASE AREA CONTAINS 10,000 SQUARE FEET (0.23 ACRES) AND IS SUBJECT TO ANY AND ALL EASEMENTS OR AGREEMENTS, RECORDED OR UNRECORDED.

30' WIDE ACCESS & UTILITY EASEMENT CENTERLINE DESCRIPTION

A PORTION OF LAND LOCATED IN THAT PART OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER (SW1/4 - NE1/4) OF SECTION 30, TOWNSHIP 5 NORTH, RANGE 8 EAST, IN THE TOWN OF MONTROSE, DANE COUNTY, WISCONSIN, AND BEING FURTHER DESCRIBED AS FOLLOWS:

COMMENCING AT A FOUND 1" IRON ROD LOCATING THE NORTH QUARTER CORNER OF SAID SECTION 30; THENCE N89° 51' 56"E, 1079.53 FEET ALONG THE NORTH LINE OF THE NORTHEAST QUARTER OF SAID SECTION 30; THENCE S0° 00' 00"E, 1735.19 FEET TO THE NORTHWEST CORNER OF THE AFOREMENTIONED LEASE AREA; THENCE N90° 00' 00"E, 100.00 FEET ALONG THE NORTH LINE OF THE AFOREMENTIONED LEASE AREA; THENCE S0° 00' 00"E, 100.00 FEET ALONG THE EAST LINE OF THE AFOREMENTIONED LEASE AREA; THENCE S0° 00' 00"W, 43.45 FEET ALONG THE SOUTH LINE OF THE AFOREMENTIONED LEASE AREA; THENCE N90° 00' 00"W, 43.45 FEET ALONG THE SOUTH LINE OF THE AFOREMENTIONED LEASE AREA TO THE POINT OF BEGINNING; THENCE S0° 00' 00"E, 156.83 FEET, MORE OR LESS, TO THE NORTHERLY RIGHT-OF-WAY LINE OF MONTROSE ROAD AND TO THE POINT OF TERMINATION. SAID ACCESS & UTILITY EASEMENT CENTERLINE CONTAINS 156.83 LINEAR FEET, MORE OR LESS, AND IS SUBJECT TO ANY AND ALL EASEMENTS OR AGREEMENTS, RECORDED OR UNRECORDED. SIDELINES OF SAID EASEMENT SHALL BE LENGTHENED OR SHORTENED TO TERMINATE AT THE NORTHERLY RIGHT-OF-WAY LINE OF THE MONTROSE ROAD.

30' WIDE ACCESS & GUY EASEMENT #1 CENTERLINE DESCRIPTION

A PORTION OF LAND LOCATED IN THAT PART OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER (SW1/4 - NE1/4) OF SECTION 30, TOWNSHIP 5 NORTH, RANGE 8 EAST, IN THE TOWN OF MONTROSE, DANE COUNTY, WISCONSIN, AND BEING FURTHER DESCRIBED AS FOLLOWS:

COMMENCING AT A FOUND 1" IRON ROD LOCATING THE NORTH QUARTER CORNER OF SAID SECTION 30; THENCE N89° 51' 56"E, 1079.53 FEET ALONG THE NORTH LINE OF THE NORTHEAST QUARTER OF SAID SECTION 30; THENCE S0° 00' 00"E, 1735.19 FEET TO THE NORTHWEST CORNER OF THE AFOREMENTIONED LEASE AREA; THENCE N90° 00' 00"E, 50.00 FEET ALONG THE NORTH LINE OF THE AFOREMENTIONED LEASE AREA; THENCE N90° 00' 00"E, 50.00 FEET ALONG THE NORTH LINE OF THE AFOREMENTIONED LEASE AREA TO THE POINT OF BEGINNING; THENCE N0° 00' 00"E, 145.00 FEET TO THE POINT OF BEGINNING. SAID ACCESS & GUY EASEMENT #1 CENTERLINE CONTAINS 145.00 LINEAR FEET AND IS SUBJECT TO ANY AND ALL EASEMENTS OR AGREEMENTS, RECORDED OR UNRECORDED.

30' WIDE ACCESS & GUY EASEMENT #2 CENTERLINE DESCRIPTION

A PORTION OF LAND LOCATED IN THAT PART OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER (SW1/4 - NE1/4) OF SECTION 30, TOWNSHIP 5 NORTH, RANGE 8 EAST, IN THE TOWN OF MONTROSE, DANE COUNTY, WISCONSIN, AND BEING FURTHER DESCRIBED AS FOLLOWS:

COMMENCING AT A FOUND 1" IRON ROD LOCATING THE NORTH QUARTER CORNER OF SAID SECTION 30; THENCE N89° 51' 56"E, 1079.53 FEET ALONG THE NORTH LINE OF THE NORTHEAST QUARTER OF SAID SECTION 30; THENCE S0° 00' 00"E, 1735.19 FEET TO THE NORTHWEST CORNER OF THE AFOREMENTIONED LEASE AREA; THENCE N90° 00' 00"E, 100.00 FEET ALONG THE NORTH LINE OF THE AFOREMENTIONED LEASE AREA; THENCE S0° 00' 00"E, 78.87 FEET ALONG THE EAST LINE OF THE AFOREMENTIONED LEASE AREA; THENCE S0° 00' 00"E, 78.87 FEET ALONG THE EAST LINE OF THE AFOREMENTIONED LEASE AREA TO THE POINT OF BEGINNING; THENCE S60° 00' 00"E, 137.26 FEET TO THE POINT OF TERMINATION. SAID ACCESS & GUY EASEMENT #2 CENTERLINE CONTAINS 137.26 LINEAR FEET AND IS SUBJECT TO ANY AND ALL EASEMENTS OR AGREEMENTS, RECORDED OR UNRECORDED. SIDELINES OF SAID EASEMENT SHALL BE LENGTHENED OR SHORTENED TO BEGIN AT THE EAST LINE OF THE AFOREMENTIONED LEASE AREA.

30' WIDE ACCESS & GUY EASEMENT #3 CENTERLINE DESCRIPTION

A PORTION OF LAND LOCATED IN THAT PART OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER (SW1/4 - NE1/4) OF SECTION 30, TOWNSHIP 5 NORTH, RANGE 8 EAST, IN THE TOWN OF MONTROSE, DANE COUNTY, WISCONSIN, AND BEING FURTHER DESCRIBED AS FOLLOWS:

COMMENCING AT A FOUND 1" IRON ROD LOCATING THE NORTH QUARTER CORNER OF SAID SECTION 30; THENCE N89° 51' 56"E, 1079.53 FEET ALONG THE NORTH LINE OF THE NORTHEAST QUARTER OF SAID SECTION 30; THENCE S0° 00' 00"E, 1735.19 FEET TO THE NORTHWEST CORNER OF THE AFOREMENTIONED LEASE AREA; THENCE N90° 00' 00"E, 100.00 FEET ALONG THE NORTH LINE OF THE AFOREMENTIONED LEASE AREA; THENCE S0° 00' 00"E, 100.00 FEET ALONG THE EAST LINE OF THE AFOREMENTIONED LEASE AREA; THENCE N90° 00' 00"W, 100.00 FEET ALONG THE SOUTH LINE OF THE AFOREMENTIONED LEASE AREA; THENCE N90° 00' 00"W, 100.00 FEET ALONG THE SOUTH LINE OF THE AFOREMENTIONED LEASE AREA; THENCE N0° 00' 00"E, 21.13 FEET ALONG THE WEST LINE OF THE AFOREMENTIONED LEASE AREA TO THE POINT OF BEGINNING; THENCE S60° 00' 00"W, 137.26 FEET TO THE POINT OF TERMINATION. SAID ACCESS & GUY EASEMENT #3 CENTERLINE CONTAINS 137.26 LINEAR FEET AND IS SUBJECT TO ANY AND ALL EASEMENTS OR AGREEMENTS, RECORDED OR UNRECORDED. SIDELINES OF SAID EASEMENT SHALL BE LENGTHENED OR SHORTENED TO BEGIN AT THE WEST LINE OF THE AFOREMENTIONED LEASE AREA.





PARENT PARCEL DESCRIPTION BY KNIGHT BARRY TITLE SERVICES LLC FILE NUMBER: 976294L (PARCEL NUMBER: 040-0508-301-9001-1

THAT PART OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER (SWI/4 - NEI/4) OF SECTION 30 (S30), TOWNSHIP 5 NORTH (T5N), RANGE & EAST (R8E), IN THE TOWN OF MONTROSE, DANE COUNTY, WISCONSIN, MORE FULLY DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTHAST CORNER OF SAID SOUTHWEST QUARTER OF THE NORTHWEST QUARTER; THENCE RUNNING NORTH ALONG THE QUARTER QUARTER LINE, 80 RODS; THENCE WEST, 68.2 RODS; THENCE SOUTH, 22 RODS; THENCE WEST TO THE RIGHT-OF-WAY LINE OF A PUBLIC HIGHWAY (AK/A FRITZ ROAD); THENCE SOUTH ALONG SAID RIGHT-OF-WAY LINE TO A POINT 35 RODS WEST OF THE POINT OF BEGINNING THENCE EAST ALONG THE SOUTH LINE OF SAID SOUTHWEST QUARTER OF THE NORTHEAST QUARTER 35 RODS TO THE POINT OF BEGINNING.

THAT PART OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 30, TOWNSHIP 5 NORTH, RANGE 8 EAST, IN THE TOWN OF MONTROSE, DANE COUNTY, WISCONSIN, LYING SOUTHWESTERLY OF FRITZ ROAD AND NORTH OF MONTROSE ROAD, EXCEPT CERTIFIED SURVEY MAP NO. 5957, RECORDED IN VOLUME 28 OF CERTIFIED SURVEY MAPS, PAGE 186 AND 187, AS DOCUMENT NO. 2163842.

SURVEYOR'S NOTES

VICINITY MAP

1) ALL EASEMENTS AND/OR LEASE AREAS SHOWN AND NOT LABELED AS EXISTING SHALL BE PENDING UNTIL

RECORDED. 2) AN ATTEMPT WAS MADE TO LOCATE ALL PROPERTY CORNERS AND MONUMENTS. WHERE NO MONUMENTS WERE FOUND, THE PROPERTY LINE WAS DRAWN BASED ON RECORDED AND/OR FILED DOCUMENTS.

3) NOT TO BE USED AS CONSTRUCTION DRAWINGS 4) THE LOCATIONS OF UNDERGROUND UTILITIES WAS DETERMINED BY FIELD OBSERVATIONS AND VISIBLE MARKINGS ONLY AT TIME OF SURVEY.

- 5) THE PURPOSE OF THIS SURVEY IS TO ESTABLISH AND DESCRIBE A LEASE AREA AND ASSOCIATED EASEMENTS. THIS IS NOT A BOUNDARY SURVEY OF THE PARENT PARCEL.
- 6) PARENT PARCEL DESCRIPTION FROM RECORDED AND/OR FILED DOCUMENTS.

7) THIS MAP WAS PREPARED WITH THE AID OF A TITLE COMMITMENT BY KNIGHT BARRY TITLE SERVICES LLC, FILE NUMBER: 976294L, DATED: JULY 16, 2018.

8)FIELD WORK WAS PERFORMED BY RAMAKER & ASSOCIATES AND REVIEWED BY TOMAS A. TORO-SANTOS, WI SURVEYOR NUMBER 3034-8

- 9) BEARINGS ARE REFERENCED TO THE NORTH LINE OF THE NORTHEAST QUARTER (NE I /4) OF SECTION 30, T5N, R8E, MEASURED TO BEAR N89° 5 I ' 56"E, BY GPS GRID USING THE WISCONSIN COUNTY COORDINATE SYSTEM, DANE COUNTY, U.S. FOOT DATUM.
- 10) F.E.M.A. FLOOD PANEL MAP NUMBER 55025C0565G, EFFECTIVE ON JANUARY 2, 2009, ZONE X, AREA OF MINIMAL FLOOD HAZARD

11) PARCEL NUMBER: 040-0508-301-9001-1.

TITLE REVIEW

TITLE BY: KNIGHT BARRY TITLE SERVICES LLC FILE NUMBER: 976294L

SURVEY RELATED EXCEPTIONS:

A. WELL AGREEMENT RECORDED OCTOBER 26, 1989 IN VOLUME 13471 OF RECORDS, PAGE 94 AS DOCUMENT NUMBER 2169106. PORTION OF PROPERTY WITHIN THIS AGREEMENT IS LOCATED WEST OF FRITZ ROAD THEREFORE DOES NOT AFFECT THE LEASE ARE OR ASSOCIATED EASEMENTS. EXACT LOCATION OF WELL HAS NOT BEEN DETERMINED THEREFORE NOT SHOWN ON THIS SURVEY.





100' X 100' LEASE AREA DESCRIPTION

A PORTION OF LAND LOCATED IN THAT PART OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER (SW1/4 - NE1/4) OF SECTION 30, TOWNSHIP 5 NORTH, RANGE & EAST, IN THE TOWN OF MONTROSE, DANE COUNTY, WISCONSIN, AND BEING FURTHER DESCRIBED AS FOLLOWS:

COMMENCING AT A FOUND I" IRON ROD LOCATING THE NORTH QUARTER CORNER OF SAID SECTION 30; THENCE N89° 51' 56''E, 1079.53 FEET ALONG THE NORTH LINE OF THE NORTHEAST QUARTER OF SAID SECTION 30; THENCE S0° 00' 00''E, 1735.19 FEET TO THE POINT OF BEGINNING; THENCE N90° 00' 00''E, 100.00 FEET, THENCE S0° 00' 00''E, 100.00 FEET; THENCE N90° 00' 00''W, 100.00 FEET; THENCE N0° 00' 00''E, 100.00 FEET TO THE POINT OF BEGINNING. SAID PROPOSED LEASE AREA CONTAINS 10,000 SQUARE FEET (0.23 ACRES) AND IS SUBJECT TO ANY AND ALL EASEMENTS OR AGREEMENTS, RECORDED OR UNRECORDED.

30' WIDE ACCESS & UTILITY EASEMENT CENTERLINE DESCRIPTION

A PORTION OF LAND LOCATED IN THAT PART OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER (SW1/4 - NE1/4) OF SECTION 30, TOWNSHIP 5 NORTH, RANGE & EAST, IN THE TOWN OF MONTROSE, DANE COUNTY, WISCONSIN, AND BEING FURTHER DESCRIBED AS FOLLOWS:

COMMENCING AT A FOUND I" IRON ROD LOCATING THE NORTH QUARTER CORNER OF SAID SECTION 30; THENCE N89° 51' 56''E, 1079.53 FEET ALONG THE NORTH LINE OF THE NORTHEAST QUARTER OF SAID SECTION 30; THENCE SO° 00' 00''E, 1735.19 FEET TO THE NORTHWEST CORNER OF THE AFOREMENTIONED LEASE AREA; THENCE N90° 00' 00''E, 100.00 FEET ALONG THE NORTH LINE OF THE AFOREMENTIONED LEASE AREA; THENCE N90° 00' 00''E, 100.00 FEET ALONG THE SOUTH LINE OF THE AFOREMENTIONED LEASE AREA; THENCE N90° 00' 00''E, 100.00 FEET ALONG THE SOUTH LINE OF THE AFOREMENTIONED LEASE AREA; THENCE N90° 00' 00''E, 100.00 FEET ALONG THE SOUTH LINE OF THE AFOREMENTIONED LEASE AREA; THENCE N90° 00' 00''E, 100.00 FEET ALONG THE SOUTH LINE OF THE AFOREMENTIONED LEASE AREA TO THE POINT OF BEGINNING; THENCE SO° 00' 00'E, 156.83 FEET, MORE OR LESS, TO THE NORTHERLY RIGHT-OF-WAY LINE OF MONTROSE ROAD AND TO THE POINT OF TERMINATION. SAID ACCESS & UTILITY EASEMENT CENTERLINE CONTAINS 156.83 LINEAR FEET, MORE OR LESS, AND 15 SUBJECT TO ANY AND ALL EASEMENTS OR AGREEMENTS, RECORDED OR UNRECORDED. SIDELINES OF SAID EASEMENT SHALL BE LENGTHENED OR SHORTENED TO TERMINATE AT THE NORTHERLY RIGHT-OF-WAY LINE OF THE MONTROSE ROAD.

30' WIDE ACCESS & GUY EASEMENT #1 CENTERLINE DESCRIPTION

A PORTION OF LAND LOCATED IN THAT PART OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER (SW1/4 - NE1/4) OF SECTION 30, TOWNSHIP 5 NORTH, RANGE 8 EAST, IN THE TOWN OF MONTROSE, DANE COUNTY, WISCONSIN, AND BEING FURTHER DESCRIBED AS FOLLOWS:

COMMENCING AT A FOUND I "IRON ROD LOCATING THE NORTH QUARTER CORNER OF SAID SECTION 30; THENCE N89° 51' 56'E, 1079.53 FEET ALONG THE NORTH LINE OF THE NORTHEAST QUARTER OF SAID SECTION 30; THENCE 50° 00' 00'E, 1735.19 FEET TO THE NORTHWEST CORNER OF THE AFOREMENTIONED LEASE AREA; THENCE N90° 00' 00'E, 50.00 FEET ALONG THE NORTH LINE OF THE AFOREMENTIONED LEASE AREA; THENCE N90° 00' 00'E, 50.00 FEET ALONG THE NORTH LINE OF THE AFOREMENTIONED LEASE AREA TO THE POINT OF BEGINNING; THENCE N0° 00' 00'E, 145.00 FEET TO THE POINT OF BEGINNING. SAID ACCESS & GUY EASEMENT #1 CENTERLINE CONTAINS 145.00 LINEAR FEET AND IS SUBJECT TO ANY AND ALL EASEMENTS OR AGREEMENTS, RECORDED OR UNRECORDED.

30' WIDE ACCESS & GUY EASEMENT #2 CENTERLINE DESCRIPTION

A PORTION OF LAND LOCATED IN THAT PART OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER (SW I/4 - NE I/4) OF SECTION 30, TOWNSHIP 5 NORTH, RANGE & EAST, IN THE TOWN OF MONTROSE, DANE COUNTY, WISCONSIN, AND BEING FURTHER DESCRIBED AS FOLLOWS:

COMMENCING AT A FOUND 1" IRON ROD LOCATING THE NORTH QUARTER CORNER OF SAID SECTION 30; THENCE N89° 51' 56'E, 1079.53 FEET ALONG THE NORTH LINE OF THE NORTHEAST QUARTER OF SAID SECTION 30; THENCE SO° 00' 00'E, 1735.19 FEET TO THE NORTHWEST CORNER OF THE AFOREMENTIONED LEASE AREA; THENCE N90° 00' 00'E, 100.00 FEET ALONG THE NORTH LINE OF THE AFOREMENTIONED LEASE AREA; THENCE SO° 00' 00'E, 78.87 FEET ALONG THE EAST LINE OF THE AFOREMENTIONED LEASE AREA; THENCE SO° 00' 00'E, 78.87 FEET ALONG THE EAST LINE OF THE AFOREMENTIONED LEASE AREA TO THE POINT OF BEGINNING; THENCE SGO° 00' 00'E, 137.26 FEET TO THE POINT OF TERMINATION. SAID ACCESS & GUY EASEMENT #2 CENTERLINE CONTAINS 137.26 LINEAR FEET AND IS SUBJECT TO ANY AND ALL EASEMENTS OR AGREEMENTS, RECORDED OR UNRECORDED. SIDELINES OF SAID EASEMENT SHALL BE LENGTHENED OR SHORTENED TO BEGIN AT THE EAST LINE OF THE AFOREMENTIONED LEASE AREA.

30' WIDE ACCESS & GUY EASEMENT #3 CENTERLINE DESCRIPTION

LEGEND

MFASURED AS

EXISTING TREFLINE

EXISTING LOT LINE EXISTING SIGN EXISTING GRAVEL EXISTING ASPHALT LEASE AREA EASEMENT SIDELINE

EASEMENT CENTERINE
 SECTION LINE
 QUARTER SECTION LINE
 QUARTER-QUARTER SECTION LINE

POINT OF BEGINNING POINT OF TERMINATION POINT OF COMMENCEMENT CERTIFIED SURVEY MAP

PARENT PARCEL BOUNDARY EXISTING RIGHT-OF-WAY EXISTING STREET CENTERLINE

MONUMENT, FOUND SECTION CORNER

A PORTION OF LAND LOCATED IN THAT PART OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER (SW I/4 - NE I/4) OF SECTION 30, TOWNSHIP 5 NORTH, RANGE 8 EAST, IN THE TOWN OF MONTROSE, DANE COUNTY, WISCONSIN, AND BEING FURTHER DESCRIBED AS FOLLOWS:

COMMENCING AT A FOUND I" IRON ROD LOCATING THE NORTH QUARTER CORNER OF SAID SECTION 30; THENCE M89° 51' 56''E, 1079.53 FEET ALONG THE NORTH LINE OF THE NORTHEAST QUARTER OF SAID SECTION 30; THENCE S0° 00' 00''E, 1735.19 FEET TO THE NORTHWEST CORNER OF THE AFOREMENTIONED LEASE AREA; THENCE M90° 00' 00''E, 100.00 FEET ALONG THE NORTH LINE OF THE AFOREMENTIONED LEASE AREA; THENCE S0° 00' 00''E, 100.00 FEET ALONG THE SOUTH LINE OF THE AFOREMENTIONED LEASE AREA; THENCE M90° 00' 00''E, 100.00 FEET ALONG THE SOUTH LINE OF THE AFOREMENTIONED LEASE AREA; THENCE M90° 00' 00''E, 100.00 FEET ALONG THE SOUTH LINE OF THE AFOREMENTIONED LEASE AREA; THENCE M90° 00' 00''E, 113 FEET ALONG THE WEST LINE OF THE AFOREMENTIONED LEASE AREA; THENCE N0° 00' 00''E, 21.13 FEET ALONG THE WEST LINE OF THE AFOREMENTIONED LEASE AREA; THENCE N0° 00' 00''E, 21.13 FEET ALONG THE WEST LINE OF THE AFOREMENTIONED LEASE AREA; THENCE S0° 00' 00''E, 21.13 FEET ALONG THE WEST LINE OF THE AFOREMENTIONED LEASE AREA; THENCE M90° 00' A OR SCHEMENT STARE SOUTH WING OF THE UNRECORDED, SIDEJICT TO ANY AND ALL EASEMENT #3 CENTERLINE CONTAINS 137.26 LINREAR FEET AND IS SUBJECT TO AND AND ALL EASEMENTS OR AGREEMENTS, RECORDED OR UNRECORDED. SIDELINES OF SAID EASEMENT SHALL BE LENGTHENED OR SHORTENED TO BEGIN AT THE WEST LINE OF THE AFOREMENTIONED LEASE AREA.



(M)

EXHIBIT B

TO SITE LEASE WITH OPTIONS

DESCRIPTION AND DEPICTION OF PREMISES AND ACCESS RIGHTS



x





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105 E. Jefferson Blvd Suite 525 South Bend, IN 46601

Phone: 574-288-3632 Fax: 574-288-5860 www.nelloinc.com

March 11th, 2016

Bug Tussel Wireless 130 E. Walnut St. Suite 509 Green Bay, WI 54301

Re: RFQ 60156 - Proposed 250' Nello Guyed Tower (4 carrier)

To Whom It May Concern:

This is regarding your inquiry about the expected performance of your proposed 250' Guyed tower located in Dane County, WI that will be quoted by Nello Corporation.

Our towers are designed to meet or exceed industry standards defined by TIA/EIA-222-G, "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures" (EIA Standard). It is our opinion that the possibility of a tower collapse is very unlikely. The tower is designed using extreme wind and ice conditions. In fact, wind speeds specified by the EIA Standard are 50-year wind speeds. That is, they have only a 2% statistical chance of occurring in any given year. Furthermore, the tower is designed with extra factors of safety so that it would not be near a failure point even if the wind conditions were at their maximum design level.

This tower will be designed using the following wind conditions as a minimum: 1) a 90mph 3-second-gust wind speed with 3/4" ice. The EIA Standard specified 90 mph as the wind speed required for Dane County, Wisconsin. The "3-second-gust wind speed" refers to a wind measured at 33 feet above the ground. Equations in the EIA Standard take into account that the wind speed escalates with the increasing height of the tower.

Although we cannot guarantee exactly how a tower would fall if it were to fail, the most likely mode of failure will be a buckling failure of one of the tower sections due to excessive compression loading. We will design the structure to stay within a fall radius of 175 feet in accordance with all TIA/EIA-222 Rev G standards and the current IBC standards that apply.

We hope this has given you a greater degree of comfort regarding the design of your structure. If you have any other questions or concerns regarding our designs, please contact me by phone at 574-288-3632.

Sincerely, Jason M. Lambert

Vice President of Engineering Nello Corporation



MAR I I 2016

Dane County Zoning Map





1 inch = 400 feet





WIRELESS, LLC Bellin Building 130 E. Walnut Street Green Bay, WI 54301

Majid Allan Senior Planner

Dane County Planning and Development Department

City County Building, Room 116

210 Martin Luther King Jr. Blvd

Madison, WI 53703

RE: Site Name: Montrose/484 Fritz Rd, Belleville, 53508/Tax ID Number: 040/0508-301-9001-1

Dear Mr. Allan,

As the property owners of the above property, we hereby consent to the submission of the Conditional Use Permit Application by Bug Tussel Wireless LLC, for a new 250' fixed wireless tower on our property.

Sincerely,

Nold nus

Loa M. Noldon

Dennis and Lisa Nolden 484 Fritz Road Belleville, WI 53508



Search Ring Release

Structure ID: Dane-5074

Site Name: Montrose

County: Dane

Latitude: 42.882717

Longitude: -89.592704

Proposed Height: 250 Feet

Search Ring Radius: 1.0 mile

Elevation: 900

Town of Montrose and surrounding area



AFFIDAVIT OF SCOTT REITER

STATE OF WISCONSIN

COUNTY OF BROWN

I, the undersigned, being duly sworn, state as follows:

)) ss.

)

- 1. I am an adult resident of the State of Wisconsin and a radio-frequency engineer employed by Bug Tussel Wireless, LLC and Cloud 1, LLC.
- 2. I make this affidavit in support of Cloud 1, LLC's application to the Town of Montrose and Dane County to construct a new communications tower located at: Tax parcel identification number 040-0508-301-9001-1 (Owned by: Dennis and Lisa Nolden, 484 Fritz Road, Belleville, WI 53508).
- 3. Bug Tussel Wireless, LLC is a duly licensed mobile service provider and shall be the anchor tenant on the Cloud 1, LLC tower proposed for the Nolden property.
- 4. One of my job responsibilities is to design and direct the placement of the Bug Tussel Wireless antenna facilities throughout its entire mobile service network.
- 5. Attached hereto and incorporated herein is a true and correct copy of an analysis performed by me. There are no existing towers or structures within 1-mile radius of the center of the attached search ring. Collocation on existing structures is not a viable option. As a result, Bug Tussel is proposing to build a new communication tower at this location to address the needs of the mobile service network for this area.
- 6. Bug Tussel Wireless, LLC has performed a thorough search of this area and found that the proposed location best suits our needs for Line of Site to cover the most customers.

(Signature)

Scott Reiter

Subscribed and sworn to before me this <u>II</u> day of <u>December</u>, 2018.

My Commission Expires 12-9-20/9

<u>12/11/18</u> (Date)



November 29, 2018 RF Analysis – Montrose Search Ring Radius: 1 Mile Search Ring Location: 42.882717 -89.592704 Proposed Tower Location: 42.881250 -89.587639

Design Search Ring



County Existing Coverage with Montrose (Off)



Same as above zoomed in view



County Future Coverage with Montrose (On)



Same as above zoomed in view



Conclusion:

The frequency we are planning for is 700 MHz and this is the coverage shown on the maps. It is my opinion based on predictions run with Atoll Propagation Software, that this location provides good coverage for our network as well as adding to our existing network.

Scott Reiter

Director or Site Acquisition and RF Engineering

Bug Tussel Wireless, LLC

Scott.Reiter@bugtusselwireless.com

920-662-3088

RF-EME Measurements & Compliance Report

Site Name: Montrose Report Generated: 2018-12-12

Tower Address: 484 Fritz Rd., Montrose, WI

Compliance Status

Proposed equipment at the site is compliant with FCC guidelines for General Population environments.

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Executive Summary

On behalf of Bug Tussel Wireless, LLC, Mobilitie LLC has been requested to perform a detailed Radio Frequency (RF) analysis to determine whether the proposed communications site at *484 Fritz Rd., Montrose, WI* is in compliance with Federal Communication Commission (FCC) Rules and Regulations for Electromagnetic Emissions (EME).

This report addresses exposure to radio frequency electromagnetic fields in accordance with the FCC Rules and Regulations for all individuals, classified in two groups, "Occupational or Controlled" and "General Population or Uncontrolled."

As explained in the subsequent sections, based on worst-case predictive modeling, the emitted power density from Bug Tussel's proposed antennas at the site does not exceed the FCC Occupational limit or General Population limit. Modifications to the design will result in a power density value that is lower than the values presented here.

Statement of Compliance

Predictive modeling conducted using the Original Equipment Manufacturer's (OEMs) specifications for radio and antenna performance indicates there will be no exposure due to the carrier's proposed equipment on accessible walking surface at this site that exceeds the FCC's General Population or Occupational Exposure limits. Thus, the proposed equipment at the site is compliant with FCC guidelines for General Population and Occupational Exposure environments.

Table 1: Summary of				
Test Location	% of FCC General Public/ Uncontrolled Exposure Limit	% of FCC Occupational/ Controlled Exposure Limit	Power Density (mW/cm2)	Compliance Status
6ft above ground level	10.2	2.04	0.1	Compliant

Table 2: FCC Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength, E (V/m)	Magnetic Field Strength, H (A/m)	Power Density, S (mW/cm2)	Averaging Time E 2, H 2 or S (minutes)
0.3 - 1.34	614	1.63	100	30
1.34 - 30	824/f	2.19/f	180/f2	30
30 - 300	27.5	7.2999	0.2	30
300 - 1500	-	-	f/1500	30
1500 - 100000	-	-	1	30

Table 3: FCC Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength, E (V/m)	Magnetic Field Strength, H (A/m)	Power Density, S (mW/cm2)	Averaging Time E 2, H 2 or S (minutes)
0.3 - 3.0	614	1.63	100	6
3.0 - 30	1842/f	4.89/f	900/f2	6
30 - 300	61.4	0.1630	1	6
300 - 1500	-	-	f/300	6
1500 - 100000	-	-	5	6

FCC Rules and Regulations

In 1996, the Federal Communication Commission (FCC) adopted regulations for the evaluating of the effects of RF emissions in 47 CFR § 1.1307 and 1.1310. The guideline from the FCC Office of Engineering and Technology is Bulletin 65 (OET Bulletin 65), Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields, Edition 97-01, published August 1997. Since 1996 the FCC periodically reviews these rules and regulations as per their congressional mandate.

FCC regulations define two separate tiers of exposure limits: Occupational or "Controlled environment" and General Population or "Uncontrolled environment". The General Population limits are generally five times more conservative or restrictive than the Occupational limit. These limits apply to accessible areas where workers or the general population may be exposed to Radio Frequency (RF) electromagnetic fields. Occupational or Controlled limits apply in situations in which persons are exposed as a consequence of their employment and where those persons exposed have been made fully aware of the potential for exposure and can exercise control over their exposure.

An area is considered a Controlled environment when access is limited to these aware personnel. Typical criteria are restricted access (i.e. locked or alarmed doors, barriers, etc.) to the areas where antennas are located coupled with proper RF warning signage. A site with Controlled environments is evaluated with Occupational limits. All other areas are considered Uncontrolled environment. If a site has no access controls or no RF warning signage it is evaluated with General Population limits.

The theoretical modeling of the RF electromagnetic fields has been performed in accordance with OET Bulletin 65. The Maximum Permissible Exposure (MPE) limits utilized in this analysis are outlined in the following diagram:





Methodology

RoofView® is a powerful, Excel based software analysis tool for evaluating Radio Frequency (RF) field levels at telecommunications sites that are produced by antennas of the type commonly used in the cellular, paging, SMR, PCS and conventional two-way radio communication services.

RoofView® uses a near-field method of computing the field based on the assumption that the total input power delivered to the antenna (P), at its input terminal, is distributed over an imaginary cylindrical surface surrounding the antenna (see Figure 1). The height of the cylinder (h) is equal to the aperture height of the antenna while the radius (R) is the distance from the antenna at which the field power density is to be computed.



The modeling was conducted with the antennas operating at 100% capacity, all antenna channels transmitting simultaneously and the radio transmitters operating at full power. Obstructions (trees, buildings etc.) that would normally attenuate the signal are not taken into account. As a result, the predicted signal levels are more conservative (higher) than the actual signal levels would be during normal operations. The modeling calculations were made for a 40x 40 foot area with the equipment at the center.

Antenna Inventory

The Antenna Inventory shows all transmitting antennas at the site. This inventory was provided by the customer, and was utilized to perform theoretical modeling of RF emissions.

Table 4: Antenna Inventory

Antenna ID	Wireless Applicant	Antenna Type	Frequency (MHz)	Technology	Mfg.	Model	Aperture (ft.)
1	Bug Tussel	3 Panels (1 per sector)	734 758 2350	LTE	Commscope	SBNHH-1D65C	8.1
2	Bug Tussel	Microwave	11100	LTE	Alcatel Lucent	MPT-XP-HQAM	1

Preparer Certification

The scope of work of this report is limited to an evaluation of the electromagnetic energy emissions field generated by the antennas listed in the report. The engineering and design of all related structures as well as the impact of the antennas on the structural integrity of the design are specifically excluded from the scope of work.

As the preparer of this report, I am fully aware of and familiar with the rules and regulations of both the Federal Communications Commission (FCC) and the Occupational Safety and Health Administration (OSHA), both in general and specifically as they apply to the guidelines for human exposure to Radio Frequency (RF) radiation.

I have reviewed this RF exposure assessment and compliance report and believe it to be both true and accurate to the best of my knowledge.

Certified By: Lincy John

Title: Senior Engineer, EME Certification Team



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DRAWN BY: CKF



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BEFORE PHOTO RENDERING/SIMULATION - LOOKING EAST (MARKER I)

PROJECT TITLE: MONTROSE

PROJECT NUMBER:

32271

PROJECT LOCATION: FRITZ RD. ≰ MONTROSE RD., BELLEVILLE, WI 53508 (PARCEL ID # 050830190011)





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DRAWN BY: CKF



PROJECT NUMBER: 32271

PROJECT LOCATION:

FRITZ RD. \$ MONTROSE RD., BELLEVILLE, WI 53508 (PARCEL ID # 050830190011)





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BEFORE PHOTO RENDERING/SIMULATION - LOOKING NORTH (MARKER 2)

PROJECT TITLE: MONTROSE

PROJECT NUMBER:

32271

PROJECT LOCATION: FRITZ RD. \$ MONTROSE RD., BELLEVILLE, WI 53508 (PARCEL ID # 050830190011)





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AFTER PHOTO RENDERING/SIMULATION - LOOKING NORTH (MARKER 2)

PROJECT TITLE: MONTROSE

PROJECT NUMBER:

32271

PROJECT LOCATION: FRITZ RD. ≰ MONTROSE RD., BELLEVILLE, WI 53508 (PARCEL ID # 050830190011)





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SHEET HILE:

BEFORE PHOTO RENDERING/SIMULATION - LOOKING WEST (MARKER 3)

PROJECT TITLE: MONTROSE

PROJECT NUMBER:

32271

PROJECT LOCATION: FRITZ RD. \$ MONTROSE RD., BELLEVILLE, WI 53508 (PARCEL ID # 050830190011)



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cloud MONTROSE CONSTRUCTION DRAWINGS

GENERAL NOTES

DESCRIPTION OF PROPOSED SITE USE PROPOSED ADDITION OF NEW COMPOUND



FACILITIES BEFORE YOU DIG IN WISCONSIN DIGGERS HOTLINE & I I OR 1-800-242-8511

OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUN

WISCONSIN STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.





SENERAL NOTES

ALL EQUIPMENT FURNISHED AND WORK PERFORMED UNDER THE DNTRACT DOCUMENTS SHALL BE GUARANTEED AGAINST DEFEC MATERIALS OR WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE, UNLESS NOTED OTHERWISE. ANY FAILURE OF EQUIPMENT OR WORK DUE TO DEFECTS IN MATERIALS OR WORKMAN HIP SHALL BE CORRECTED BY THE CONTRACTOR AT NO COST TO THE OWNER.

ALL WORK, MATERIAL, AND EQUIPMENT SHALL COMPLY WITH ALL REQUIREMENTS OF THE LATEST EDITIONS AND INTERIM AMENDMENTS OF THE NATIONAL ELECTRICAL CODE (N.E.C.). NATIONAL ELECTRICAL SAFETY CODE, OSHA, AND ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES. ALL ELECTRICAL EQUIPMENT PROVIDED JNDER THIS CONTRACT SHALL BE NEW (EXCEPT WHERE OTHERWISE NOTED) AND SHALL COMPLY WITH THE REQUIREMENTS OF THE INDERWRITERS' LABORATORIES AND BEAR THE U.L. LABEL.

OWNER OR HIS ARCHITECT/ENGINEER RESERVE THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH IN HIS OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITH BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO THE OWNER OR HIS ARCHITECT/ENGINEER

THE CONTRACTOR SHALL SUPPORT, BRACE AND SECURE EXISTING STRUCTURE AS REQUIRED, CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PROTECTION OF ANY EXISTING STRUCTURES DURING CONSTRUCTION. IELD VERIFY ALL EXISTING DIMENSIONS WHICH AFFECT THE NEW CONSTRUCTION.

THE CONTRACTOR SHALL NOT ALLOW OR CAUSE ANY OF THE WORK TO BE COVERED UP OR ENCLOSED UNTIL IT HAS BEEN INSPECTED BY THE GOVERNING AUTHORITIES ANY WORK THAT IS ENCLOSED OR COVERED UP BEFORE SUCH INSPECTION AND TEST SHALL BE UNCOVERED AT THE CONTRACTOR'S EXPENSE, AFTER IT HAS BEEN INSPECTED, THE CONTRACTOR SHALL RESTORE THE WORK TO ITS ORIGINAL CONDITION AT HIS OWN EXPENSE.

ALL EXISTING UTILITIES, FACILITIES, CONDITIONS AND THEIR IMENSIONS SHOWN ON PLANS HAVE BEEN PLOTTED FROM AVAILABLE RECORDS THE ARCHITECT/ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATEVER AS TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL SAID UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING AFFECTED UTILITIES

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES BOTH HORIZONTALLY AND VERTICALLY PRIOR TO START OF CONSTRUCTION ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHALL BE IMMEDIATELY REPORTED TO THE PROJECT MANAGER FOR ESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BI PERFORMED UNTIL DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT/ENGINEER, FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS OWN RISK AND EXPENSE

 CONTRACTORS SHALL CLEAN ENTIRE SITE AFTER CONSTRUCTION SUCH THAT NO PAPERS, TRASH, DEBRIS, WEEDS, BRUSH OR ANY OTHER DEPOSITS REMAIN. ALL MATERIALS COLLECTED DURING CLEANING DERATIONS SHALL BE PROPERLY DISPOSED OF OFF-SITE BY THE CONTRACTOR.

9. ALL SITE WORK SHALL BE CAREFULLY COORDINATED BY THE CONTRACTOR WITH LOCAL GAS, ELECTRIC, TELEPHONE, AND ANY OTHER. JTILITY COMPANIES HAVING JURISDICTION OVER THIS LOCATION.

DURING CONSTRUCTION, THE CONTRACTOR SHALL AT ALL TIMES MAINTAIN THE UTILITIES OF THE BUILDINGS/SITE WITHOUT INTERRUPTION. SHOULD IT BE NECESSARY TO INTERRUPT ANY SERVICE OR TILITY. THE CONTRACTOR SHALL SECURE PERMISSION IN WRITING FROM UILDING/PROPERTY OWNER FOR SUCH INTERRUPTION, AT LEAST 72 OURS IN ADVANCE, ANY INTERRUPTION SHALL BE MADE WITH A WINIMUM AMOUNT OF INCONVENIENCE TO THE BUILDING/PROPERTY OWNER AND ANY SUCH SHUTDOWN TIME SHALL BE COORDINATED WITH THE BUILDING/PROPERTY OWNER.

THIS CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH HE PLANS AND SHALL VERIFY EXISTING SITE CONDITIONS AT THE JOB SITE BEFORE SUBMITTING BID. FAILURE TO RECOGNIZE WORK REQUIRED SHALL BE AT THE EXPENSE OF THIS CONTRACTOR IN CONSIDERATION SHALL BE GIVEN FOR ADDITIONAL COMPENSATION AFTER THE LETTING OF BIDS

2. ENTIRE INSTALLATION SHALL BE PERFORMED IN A FIRST-CLASS WORKMAN LIKE MANNER AND SHALL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES. THE COMPLETED SYSTEMS SHALL BE FULLY OPERATIONAL: ACCEPTANCE BY THE OWNER SHALL BE A CONDITION OF CONTRACT. ALL WORK SHALL BE COORDINATED WITH OTHER FRADES IN ORDER TO AVOID INTERFERENCE'S PRESERVING MAXIMUM TEADROOM AND AVOID OMISSIONS. ALL MATERIALS WORKMANSHIP AND EQUIPMENT SHALL BE GUARANTEED FOR ONE (1) YEAR AFTER SYSTEM ACCEPTANCE

ALL MATERIALS USED SHALL BE NEW AND BEAR THE U/L LABEL AND BE OF THE APPROPRIATE NEMA STANDARD.

CONTRACTOR SHALL INCLUDE ALL MISCELLANEOUS ITEMS REQUIRED TO COMPLETE THE WORK.

CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND REQUIRED INSPECTION FEES.

I G. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE AND REVIEW THE ELECTRICAL CHARACTERISTICS, AM AMPACITY AND OTHER REQUIREMENTS OF ALL EQUIPMENT PRIOR TO INSTALLATION.

IT SHALL BE THE RESPONSIBILITY OF THIS PROJECT MANAGER TO COORDINATE THE LOCATIONS OF CONDUIT ROUTING, EQUIPMENT, LIGHTING, ETC. WITH ALL OTHER TRADES IN THE FIELD PRIOR TO INSTALLATION.

18. FOR CLARITY OF ALL PLANS, SOME EQUIPMENT CONDUIT AND WIRE HAS NOT BEEN SHOWN. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO FURNISH AND INSTALL COMPLETE AND OPERATING SYSTEMS INCLUDING ALL CONDUIT AND WIRING.

THE CONTRACTOR SHALL INSPECT THE COMPLETE SET OF DRAWINGS AND SPECIFICATIONS TO DETERMINE HIS ENTIRE SCOPE OF WORK. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND EXTENT OF DEMOLITION AND NEW WORK FOR THE PROJECT PRIOR TO SUBMITTING HIS BID. MATERIALS OR WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINA ACCEPTANCE, UNLESS NOTED OTHERWISE, ANY FAILURE OF EQUIPMENT OR WORK DUE TO DEFECTS IN MATERIALS OR WORKMANSHIP SHALL BE CORRECTED BY THE CONTRACTOR AT NO COST TO THE OWNER.

THE ELECTRICAL INSTALLATION IS TO BE IN STRICT ACCORDANCE. WITH THE APPLICABLE RULES AND REGULATIONS OF ALL LOCAL, STATE AND FEDERAL ELECTRICAL CODES AND THE LOCAL UTILITY COMPANY REQUIREMENTS OR ANY OTHER AUTHORITIES HAVING LAWFUL JURISDICTION.

SITE WORK

I. THE CONTRACTOR SHALL CALL UTILITIES PRIOR TO THE START OF CONSTRUCTION. 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 THE PROJECT MANAGER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES; CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO: A. FALL PROTECTION

- CONFINED SPACE
- ELECTRICAL SAFETY
- TRENCHING AND EXCAVATION

REMOVE FROM SITE/OWNER'S PROPERTY ALL WASTE MATERIALS UNUSED EXCAVATED MATERIAL, INCLUDING MATERIAL CLASSIFIED UNSATISFACTORY, CONTAMINATED OR DANGEROUS TRASH AND DEBRIS, AND DISPOSE OF IN A LEGAL MANNER (AS REQUIRED)

ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND R UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK OTHER UTIL 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 ENGINEERING.

4. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE BUILDING OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, FERTILIZED, SEEDED, AND COVERED WITH MULCH AS SPECIFIED IN THE SPECIFICATION LANDSCAPE WORK (AS REQUIRED).

CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION, EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL AND 1996 BOCA STANDARD GUIDELINES FOR EROSION AND SEDIMENT CONTROL

CONTRACTOR IS RESPONSIBLE FOR EQUIPMENT SHELTER OR PLATFORM LAYOUT AND CONSTRUCTION STAKING. CONTRACTOR SHALL ESTABLISH GRADE AND LINE STAKES PRIOR TO CONSTRUCTION.

CONCRETE

I. MINIMUM ALLOWABLE CONCRETE COMPRESSIVE STRENGTH SHALL BE 4000 PSI AT 28 DAYS WHEN TESTED IN ACCORDANCE WITH THE AMERICAN SOCIETY FOR TESTING AND MATERIALS METHODS STANDARDS ASTM C172, ASTM C31 UNLESS OTHERWISE NOTED.

CONCRETE FOR ALL FOUNDATIONS, 540 LBS PER CUBIC YARD OF CONCRETE MINIMUM CEMENT CONTENT FOR I -INCH MAXIMUM SIZE AGGREGATE, SLUMP RANGE 3 INCHES TO 5 INCHES. TOTAL AIR CONTENT 4 PERCENT TO 7 PERCENT BY VOLUME. AIR ENTRAINING ADMIXTURE REQUIRED TO CONTROL TOTAL AIR CONTENT, WATER REDUCING ADMIXTURE PERMITTED TO OBTAIN SLUMP OVER THREE INCHES

3. ALL CONCRETE CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE (ACI 318) BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND (ACI 301) STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE.

REBAR SHALL BE ASTM A-615 DEFORMED TYPE WITH MINIMUM YIELD STRENGTH OF 60,000 PSI (40,000 PSI GRADE MAY BE USED FOR TIES \$ STIRRUPS). WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.

DETAILING SHALL BE IN ACCORDANCE WITH MANUAL OF STANDARD PRACTICE OF DETAILING REINFORCED CONCRETE STRUCTURES (ACI STD-3 I 5 LATEST EDITION).

REINFORCING STEEL SHALL BE ACCURATELY PLACED AND ADEQUATELY SECURED IN POSITION. LOCATION OF REINFORCEMENT SHALL BE INDICATED ON THE DRAWINGS. THE FOLLOWING MINIMUM COVER (INCHES) FOR REINFORCEMENT SHALL BE PROVIDED. EXCEPT AS NOTED MINIMUM COVER (INCHES) CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH - 3" EXPOSED TO EARTH OR WEATHER: #6 THROUGH #18 - 2" #5 BAR AND SMALLER - 1 1/2 "

TESTS

CONCRETE MATERIALS AND OPERATIONS SHALL BE TESTED AND INSPECTED THE CONTRACTOR AS THE WORK PROGRESSES, FAILURE TO DETECT ANY DEFECTIVE WORK OR MATERIAL SHALL NOT IN ANY WAY PREVENT LATER REJECTION WHEN SUCH DEFECT IS DISCOVERED NOR SHALL IT OBLIGATE THE ENGINEER FOR FINAL ACCEPTANCE.

PROTECTION 8.

A. IMMEDIATELY AFTER PLACEMENT, THE CONTRACTOR SHALL PROTECT THE CONCRETE FROM PREMATURE DRYING. EXCESSIVELY HOT OR COLD TEMPERATURES, AND MECHANICAL INJURY, FINISHED WORK SHALL BE PROTECTED.

B. CONCRETE SHALL BE MAINTAINED WITH MINIMAL MOISTURE LOSS AT RELATIVELY CONSTANT TEMPERATURE FOR A PERIOD NECESSARY FOR HYDRATION OF CEMENT AND HARDENING OF CONCRETE.

C. ALL CONCRETE SHALL BE WATER CURED BY CONTINUOUS (NOT PERIODIC) FINE MIST SPRAYING OR SPRINKLING ALL EXPOSED SURFACES. WATER SHALL BE CLEAN AND FREE FROM ACID. ALKALI, SALTS, OIL SEDIMENT, AND ORGANIC MATTER. SUCCESSFUL CURING SHALL BE OBTAINED BY USE OF AN AMPLE WATER SUPPLY UNDER PRESSURE IN PIPES WITH ALL NECESSARY APPLIANCES OF SPRINKLERS.

STRUCTURAL STEEL

I. DETAIL, FABRICATE AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH THE LATEST AISC MANUAL OF STEEL CONSTRUCTION. AWS DI. I AND THE STRUCTURAL STEEL SHALL BE AS FOLLOWS

ASTM A36, GRADE 36, ROLLED STEEL, RODS, PLATES, U-BOLTS AND ANCHOR BOLTS

B. ASTM A325 BOLTS BEARING TYPE

C. ALL STEEL SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE MITH ASTM AI 23.

THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE REQUIRED DURING CONSTRUCTION UNTIL ALL CONNECTIONS ARE COMPLETE.

ANY FIELD CHANGES OR SUBSTITUTIONS SHALL HAVE PRIOR APPROVAL FROM THE ENGINEER

4. TIGHTEN HIGH STRENGTH BOLTS TO A SNUG TIGHT CONDITION WHERE ALL PLIES IN A JOINT ARE IN FIRM CONTACT BY EITHER.

- A. A FEW IMPACTS OF A IMPACT WRENCH
- B. THE FULL EFFORT OF A PERSON USING A SPUD WRENCH
- 5. WELDING A. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS; CERTIFICATION DOCUMENTS SHALL BE MADE AVAILABLE FOR. ENGINEER'S AND/OR OWNER'S REVIEW IF REQUESTED.

B. WELDING ELECTRODES FOR MANUAL SHIELDED METAL ARC WELDING SHALL CONFORM TO ASTM A-233 E70 SERIES, BARE ELECTRODES AND GRANULAR FLUX USED IN THE SUBMERSED ARC PROCESS SHALL CONFORM TO AISC SPECIFICATION.

C. FIELD WELDING SHALL BE DONE AS PER AWS DI.I REQUIREMENTS VISUAL INSPECTION IS ACCEPTABLE.

PROTECTION

A.UPON COMPLETION OF ERECTION INSPECT ALL GALVANIZED STEEL AND PAINT ANY FIELD CUTS, WELDS, OR GALVANIZED BREAKS WITH ZINC BASED PAINT (CALVANOY DRY CALV OR ZINC IT). COLOR TO MATCH THE GALVANIZING PROCESS.

WORK, INCLUDED:

PROTECTION OF PERSONNEL AND PROPERTY B. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND CLOUD I SPECIFICATIONS.

C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED

ON DRAWINGS D. INSTALL FURNISHED GALVANIZED STEEL AND/OR TOWER

WAVEGUIDE. E. INSTALL COAXIAL CABLES AND TERMINATIONS BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE

F ANTENNA AND COAXIAL CABLE GROUNDING

LALL EXTERIOR #6 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH ANDREWS CONNECTOR/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL

2.ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)

QUALITY ASSURANCE

I. ALL CONTRACTORS FURNISHED MATERIALS AND EQUIPMENT SPECIFIED ON THE PROJECT SHALL BE NEW AND UNUSED, OF CURRENT MANUFACTURER AND OF THE HIGHEST GRADE.

2. ALL EQUIPMENT, MATERIAL AND THE INSTALLATION METHODS SPECIFIED ON THE PROJECT DRAWINGS SHALL BE DESIGNED AND FABRICATED IN COMPLIANCE WITH APPLICABLE FEDERAL. STATE AND LOCAL CODES AND REGULATIONS AND APPROPRIATE INDUSTRIAL CONSENSUS STANDARDS AND CODES INCLUDING ANSI, IEEE, NEMA, NEPA AND UL. ALL AS REVISED AS OF THE DATE OF THIS WORK PACKAGE

ALL ELECTRICAL ITEMS BOTH CONTRACTOR AND OWNER FURNISHED SHALL BE CHECKED FOR AGREEMENT WITH THE PROJECT DRAWINGS AND SPECIFICATIONS AND SHALL BE VISUALLY INSPECTED TO ENSURE THAT EQUIPMENT IS UNDAMAGED AND IS IN PROPER ALIGNMENT. INSTALLED PER MANUFACTURER'S INSTRUCTIONS. ELECTRICAL CONNECTIONS ARE TIGHT AND PROPERLY INSULATED WHERE REQUIRED. FUSES ARE OF THE PROPER TYPE AND SIZE AND ELECTRICAL ENCLOSURES ARE OF THE PROPER NEMA TYPE.

NOTIFY OWNER IN WRITING OF ALL DISCREPANCIES BETWEEN DRAWINGS/SPECIFICATIONS AND FIFLD INSTALLATIONS OR IF THE VISUAL INSPECTIONS SHOW DAMAGE OR IMPROPER INSTALLATION.

GENERAL: DURING AND UPON COMPLETION OF THE WORK ARRANGE AND PAY ALL ASSOCIATED INSPECTIONS OF ALL ELECTRICAL WORK INSTALLED UNDER THIS CONTRACT. IN ACCORDANCE WITH THE CONDITIONS OF THE CONTRACT.

6. INSPECTIONS REQUIRED: AS PER THE LAWS AND REGULATIONS OF THE LOCAL AND/OR STATE AGENCIES HAVING JURISDICTION AT THE PROJECT SITE

GENERAL UTILITY

ALL ELECTRICAL SITE WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE DATED 2008.

I. THE EQUIPMENT AND MATERIAL SHALL BE FURNISHED AND INSTALLED TO OPERATE SAFELY AND CONTINUOUSLY OUTDOORS WITH NO PROTECTION FROM THE WEATHER

ELECTRICAL WORK REPRESENTED ON THE PROJECT DRAWINGS IS SHOWN DIAGRAMMATICALLY. EXACT LOCATIONS AND ELEVATIONS OF ELECTRICAL EQUIPMENT SHALL BE DETERMINED IN THE FIELD AND VERIFIED WITH THE OWNER'S REPRESENTATIVE

CONTRACTOR SHALL COORDINATE THE INSTALLATION OF TEMPORARY, IF REQUIRED, AND PERMANENT POWER WITH THE LOCAL UTILITY COMPANY. THE TEMPORARY POWER AND ALL HOOKUP COSTS ARE TO BE PAID BY THE CONTRACTOR.

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A. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS ERECTION SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR THE

RAMAKER & ASSOCIATES, INC. L00% EMPLOYEE-OWNED 855 Community Dr, Sauk City, WI 53583 608-643-4100 www.Ramaker.com Sauk City, WI Willmar, MN Woodcliff Lake, NJ Bayamon, PR
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Certification & Seal:
MARK DATE DESCRIPTION ISSUE PHASE REV A DATE 10/12/2018 PROJECT TITLE:
MONTROSE FROJECT INFORMATION: FRITZ RD. & MONTROSE RD. BELLEVILLE, WI 53508
PARCEL ID # 050830190011 SHEET TITLE: SPECIFICATIONS
JUALL: NUNL

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GENERAL UTILITY (CONT.)

4. PROVIDE MOLDED CASE BOLT-ON, THERMAL MAGNETIC TRIP, SINGLE, TWO OR THREE POLE CIRCUIT BREAKERS, MULTIPLE POLE CIRCUIT BREAKERS SHALL BE SINGLE HANDLE COMMON TRIP, SHORT CIRCUIT INTERRUPTING RATING SHALL BE AS REQUIRED FOR AVAILABLE FAULT CURRENTS. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE A SHORT CIRCUIT INTERRUPTING RATING EQUAL TO OR GREATER THAN THAT SHOWN ON PROJECT DRAWINGS.

5. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENTLY ENGRAVED LAMINATED PHENOLIC NAMEPLATES WITH WHITE ON BLUE BACKGROUND (MINIMUM LETTER HEIGHT SHALL BE 1/2 INCH). NAMEPLATES SHALL BE FASTENED WITH STAINLESS STEEL SCREWS.

6. CONTRACTOR SHALL PERFORM ALL EXCAVATION, TRENCHING, BACKFILLING, AND REMOVAL OF DEBRIS IN CONNECTION WITH THE ELECTRICAL WORK IN ACCORDANCE WITH THE PROJECT DRAWINGS. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF UNDERCROUND UTILITIES AND GROUNDING WITH THE FOUNDATION INSTALLATION.

7. CONTRACTOR SHALL PROVIDE ALL NECESSARY SUPPORTS FOR EQUIPMENT INSTALLED AS PART OF THIS PROJECT. SUPPORTS SHALL CONSIST OF GALVANIZED STEEL FRAMES, PLATES, BRACKETS, RACKS AND OTHER SHAPES OF ADEQUATE SIZE AND FASTENED WITH BOLTS, SCREWS OR BY WELDING TO PROVIDE RIGID SUPPORT.

 CONTRACTOR SHALL CALL THE APPROPRIATE UTILITIES PROTECTION SERVICE BEFORE ANY UNDERGROUND WORK IS PERFORMED, SUCH AS TRENCHING, EXCAVATING, AND DRIVING GROUND RODS.

 CONTRACTOR SHALL SEAL AROUND ELECTRICAL PENETRATIONS THROUGH FIRE-RATED WALLS/FLOORS USING APPROVED FIRE STOP MATERIALS TO MAINTAIN THE FIRE RESISTANCE RATING.

10. SHORT CIRCUIT RATINGS: PROVIDE EQUIPMENT W/HIGHER FAULT CURRENT RATINGS AS NEEDED TO MATCH UTILITY COMPANY AVAILABLE FAULT CURRENT.

RACEWAYS

I. CONDUIT AND CONDUIT FITTINGS SHALL MEET ANSI AND NEC STANDARDS FOR MATERIAL AND WORKMANSHIP AND SHALL BE UL LISTED.

A. RIGID STEEL CONDUIT (FOR ALL ABOVE GRADE WORK) SHALL CONFORM TO ANSI C80-I AND THE REQUIREMENTS OF NEC PARAGRAPH 34G AND BE STANDARD WEIGHT, MILD RIGID STEEL, HOT DIP GALVANIZED

WTH INSIDE AND OUTSIDE FINISHED WITH A PROTECTIVE ZINC COATING. COUPLING, ELBOWS AND BENDS SHALL MEET THESE SAME REQUIREMENTS.

FITTINGS SHALL BE OF THE GALVANIZED IRON OR STEEL THREADED TYPE.

B. PVC CONDUIT (FOR UNDERGROUND WORK) SHALL CONFORM TO UL STANDARD 651-89 AND THE REQUIREMENTS OF NEC. PARAGRAPH 347.

CONDUIT SHALL BE HEAVY WALL TYPE, SCHEDULE 80, AND SUNLIGHT RESISTANT. FITTINGS SHALL BE OF THE UNTHREADED SOLVENT CEMENT TYPE.

C. EMT CONDUIT (FOR USE BEHIND WALLS OR ABOVE SUSPENDED CEILINGS ONLY), ELECTRIC METALLIC TUBING SHALL CONFORM TO ANSI C80.3 AND THE REQUIREMENTS OF NEC, PARAGRAPH 348 AND BE PROTECTED ON EXTERIOR WITH A ZINC COATING AND ON INTERIOR SURFACES WITH EITHER A ZINC COATING OR LACQUER ENAMEL. FITTINGS SHALL BE ZINC COATED STEEL.

2. MINIMUM CONDUIT SIZE SHALL BE 3/4 INCH, SIZES NOT SHOWN ON DRAWINGS SHALL BE PER NEC.

3. ALL SPARE CONDUITS SHALL HAVE A METALLIC OR MULL TAPE

 CONDUIT SUPPORTS SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AND IN ACCORDANCE WITH THE NEC.

5. UNDERGROUND CONDUITS ≰ ENCLOSURES.

A. INSTALL A WARNING TAPE TWELVE INCHES ABOVE EACH CONDUIT OR SET OF CONDUITS.

B. IDENTIFY EACH CONDUIT AT BOTH ENDS.

C. INSTALL A MINIMUM OF 36 INCHES BELOW THE FINISHED GRADE, OR DEEPER IF NOTED ON PLAN DRAWINGS

D. USE MANUFACTURED ELECTRICAL PVC ELBOWS AND FITTINGS FOR BELOW GRADE BENDS.

E. MAKE JOINTS AND FITTINGS WATERTIGHT ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

F. INSTALL A COUPLING BEFORE EACH WALL PENETRATION

G. RESTORE SURFACE FEATURES DISTURBED BY EXCAVATION (AND TRENCHING) IN ALL AREAS.

H. ENCLOSURES IN DRY LOCATION SHALL BE NEMA

CABLE TRAYS

I. ALL CABLE TRAYS AND FITTINGS SHALL BE DESIGNED, MANUFACTURED AND TESTED IN CONFORMANCE WITH NEMA VE I

2. CABLE TRAYS SHALL BE LADDER TYPE WITH 9-INCH SPACING.

3. CABLE TRAYS SHALL BE CAPABLE OF SUPPORTING 75 LBS/LINEAR FOOT.

4. CABLE TRAYS AND FITTINGS SHALL BE MANUFACTURED OF GALVANIZED STEEL.

5. CABLE TRAYS SHALL BE FURNISHED WITH COVERS WHERE SHOWN ON THE PROJECT DRAWINGS.

6. ALL DISCONTINUOUS SECTIONS OF CABLE TRAY SHALL BE BONDED ACROSS JOINTS.

CONDUCTORS

I. ALL POWER, CONTROL AND COMMUNICATION WIRING SHALL MEET REQUIRED NEMA-RATINGS, ASTM, UL, AND NEC STANDARDS FOR MATERIAL AND WORKMANSHIP UNLESS OTHERWISE SPECIFIED.

A. SERVICE ENTRANCE CONDUCTORS SHALL BE COPPER, 200 VOLT, SUNLIGHT RESISTANT, SUITABLE FOR WET LOCATIONS, TYPE USE-2. THE GROUNDED NEUTRAL CONDUCTOR SHALL BE IDENTIFIED WITH A WHITE MARKING AT EACH TERMINATION.

B. CONDUCTORS FOR FEDER AND BRANCH CIRCUITS SHALL BE COPPER 200 VOLT, TYPE THHN/THWN WITH A MINIMUM SIZE OF #12 AWG.

2. ALL CONDUCTOR ACCESSORIES INCLUDING CONNECTORS, TERMINATIONS, INSULATING MATERIALS, SUPPORT GRIPS, MARKER AND CABLE TIES SHALL BE FURNISHED AND INSTALLED. SUPPLIER'S INSTALLATION INSTRUCTIONS SHALL BE OBTAINED FOR CABLE ACCESSORIES. THESE INSTRUCTIONS SHALL BE IN THE POSSESSION OF THE CRAFTSMAN WHILE INSTALLING THE ACCESSORIES AND SHALL BE AVAILABLE TO THE COMPANY FOR REFERENCE.

3. TERMINAL CONNECTORS FOR CONDUCTORS SMALLER THAN & AWG SHALL BE COMPRESSION TYPE CONNECTORS SIZED FOR THE CONDUCTOR AND THE TERMINAL. THE CONNECTORS SHALL BE CONSTRUCTED OF FINE GRADE HIGH CONDUCTIVITY COPPER IN ACCORDANCE WITH QQ-C-576 AND SHALL BE TIN-PLATED IN ACCORDANCE WITH MIL-T-10727. THE INTERIOR SURFACE OF THE CONNECTOR WIRE BARREL SHALL BE SERRATED, AND THE EXTERIOR SURFACE OF THE CONNECTOR WIRE BARREL SHALL BE PROVIDED WITH CRIMP GUIDES.

4. TERMINAL CONNECTORS FOR CONDUCTORS & AWG AND LARGER SHALL BE PRESSURE OR BOLTED CLAMP TYPE, BURNDY QUIKLUG, VARILUG OR ACCEPTABLE EQUAL; OR COMPRESSION TYPE; BURNDY TYPE YAV OR YA (LONG BARREL), PANDUIT TYPE LCA OR LCC, OR ACCEPTABLE EQUAL. ACCEPTABLE CONNECTORS INCLUDED WITH COMPANY-FURNISHED EQUIPMENT MAY BE USED.

5. TERMINATION PROVISIONS OF EQUIPMENT FOR CIRCUITS RATED IOO AMPERES OR LESS, OR MARKED FOR NOS. 14 THROUGH I CONDUCTORS, SHALL BE USED ONLY FOR CONDUCTORS RATED GO DEG. C (140 DEG F). CONDUCTORS WITH HIGHER TEMPERATURE RATINGS SHALL BE PERMITTED, PROVIDED THE AMPACITY OF EACH CONDUCTOR IS DETERMINED BASED ON THE GO DEG.C (140 DEG.F) AMPACITY OF THE CONDUCTOR SIZE USED.

6. TERMINATION PROVISIONS OF EQUIPMENT FOR CIRCUITS RATED OVER 100 AMPERES, OR MARKED FOR CONDUCTORS LARGER THAN NO. 1, SHALL BE USED ONLY FOR CONDUCTORS RATED 75 DEG. C (167 DEG F). CONDUCTORS WITH HIGH TEMPERATURE RATINGS SHALL BE PERMITTED, PROVIDED THE AMPACITY OF EACH CONDUCTOR IS DETERMINED BASE ON THE 75 DEG. C (167 DEG.F) AMPACITY OF THE CONDUCTOR SIZE USED.

7. ALL GOO VOLT OR LESS WIRING, WHERE COMPRESSION TYPE CONNECTORS ARE USED, SHALL BE INSULATED WITH AT LEAST ONE TURN OF "SCOTCHFILL" 200 AMP ELECTRICAL INSULATING PUTTY AND THEN COVERED WITH TWO HALF TURNS OF TAPE SIMILAR TO 3M COMPANYS "33 PLUS" (33+) PLASTIC TAPE OR & OUTDOOR.

8. THE ELECTRICAL SERVICE TO THE SITE SHALL BE GROUNDED AT THE SERVICE DISCONNECTING MEANS REQUIRED IN ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE, IN ACCORDANCE WITH ANY LOCAL CODE.

9. ALL UNDERGROUND (BELOW GRADE) GROUNDING CONNECTIONS SHALL BE MADE BY THE CADWELD PROCESS (MECHANICAL LUG ATTACHMENTS BELOW GRADE ARE NOT ACCEPTABLE). CONNECTIONS SHALL INCLUDE ALL CABLE TO CABLE SPLICES (TEES, X5, ETC.) ALL MATERIALS USED (MOLDS, WELDING METAL, TOOLS, ETC.) SHALL BE BY CADWELD AND INSTALLED PER MANUFACTURER'S RECOMMENDATION AND PROCEDURES.

LIGHTNING PROTECTION

I. LIGHTNING PROTECTION MATERIAL SHALL BE FURNISHED BY AND INSTALLED BY CONTRACTOR.

HANGERS AND SUPPORT

I. MATERIALS, ALL HANGERS, SUPPORTS, FASTENERS, AND HARDWARE SHALL BE ZINC COATED OR OF EQUIVALENT CORROSION RESISTANCE BY TREATMENT OR INHERENT PROPERTY, AND SHALL BE MANUFACTURED PRODUCTS DESIGNED FOR THE APPLICATION. PRODUCTS FOR OUTDOOR USE SHALL BE HOT DIP GALVANIZED.

2. TYPES, HANGERS, STRAPS, RISER SUPPORTS, CLAMPS, U-CHANNEL, THREADED RODS, ETC. AS INDICATED OR REQUIRED.

3. INSTALLATION, RIGIDLY SUPPORT AND SECURE ALL MATERIALS, RACEWAY AND EQUIPMENT BUILDING STRUCTURE USING HANGERS, SUPPORTS AND FASTENERS SUITABLE FOR THE USE, MATERIALS AND LOADS ENCOUNTERED, PROVIDE ALL NECESSARY HARDWARE, PROVIDE CONDUIT SUPPORTS AT MAXIMUM 5 FT. O.C.

4. OVERHEAD MOUNTING, ATTACH OVERHEAD MOUNTED EQUIPMENT TO STRUCTURAL FRAMEWORK OR SUPPORTING METAL FRAMEWORK.

5. WALL MOUNTING, SUPPORT WALL MOUNTED EQUIPMENT BY MASONRY, CONCRETE BLOCK, METAL FRAMING OR SUB-FRAMING.

6. EXTERIOR WALLS, MOUNT ALL EQUIPMENT LOCATED ON THE INTERIOR OF EXTERIOR BUILDING WALLS AT LEAST ONE INCH AWAY FROM WALL SURFACE, USING SUITABLE SPACERS.

7. STRUCTURAL MEMBERS, DO NOT CUT, DRILL OR WELD ANY STRUCTURAL MEMBER EXCEPT SPECIFICALLY APPROVED BY THE ENGINEER.

8. INDEPENDENT SUPPORT, DO NOT SUPPORT MATERIALS OR EQUIPMENT FROM OTHER EQUIPMENT, PIPING, DUCTWORK OR SUPPORTS FOR SAME.

9. RACEWAY SUPPORTS, RIGIDLY SUPPORT ALL RACEWAY WITH MAXIMUM SPACINCS PER NEC. AND SO AS TO PREVENT DISTORTION OF ALIGNMENT DURING PULLING OPERATION, USE APPROVED HANGERS, CLAMPS AND STRAPS FOR INDIVIDUAL RUNS. DO NOT USE PERFORATED STRAPS OR TIE WIRES. WHERE MULTIPLE PARALLEL RACEWAYS ARE TO RUN TOGETHER, USE TRAPEZE TYPE HANGER ARRANGEMENT MADE FROM U-CHANNEL AND ACCESSORIES. SUSPENDED FOR FUTURE INSTALLATION OF ADDITIONAL RACEWAYS, RIGIDLY ANCHOR VERTICAL CONDUITS SERVING FLOOR MOUNTED OR "SLAND" TYPE EQUIPMENT MOUNTED AWAY FROM WALLS WITH METAL BRACKET OR RIGID STEEL CONDUIT EXTENSION SECURED TO FLOOR.

10. MISCELLANEOUS SUPPORTS, PROVIDE ANY ADDITIONAL STRUCTURAL SUPPORT STEEL BRACKETS, ANGLES, FASTENERS, AND HARDWARE AS REQUIRED TO ADEQUATELY SUPPORT ALL ELECTRICAL MATERIALS AND EQUIPMENT.

II. ONE HOLE STRAPS SHALL NOT BE USED FOR CONDUITS LARGER THAN 3/4 INCH.

CUTTING AND PATCHING

I. GENERAL: PROVIDE ALL CUTTING, DRILLING, CHASING, FITTING AND PATCHING NECESSARY FOR ACCOMPLISHING THE WORK. THIS INCLUDES ANY AND ALL WORK NECESSARY TO UNCOVER WORK TO PROVIDE FOR INSTALLATION OF ILL TIMES WORK. REMOVE AND REPLACE DEFECTIVE WORK AND WORK NOT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. INSTALL EQUIPMENT AND MATERIALS IN EXISTING STRUCTURES IN ADDITION TO THAT REQUIRED DURING THE NORMAL COURSE OF CONSTRUCTION.

2. BUILDING STRUCTURE: DO NOT ENDANGER THE INTEGRITY OF THE BUILDING STRUCTURE BY CUTTING, DRILLING OR OTHERWISE MODIFYING ANY STRUCTURAL MEMBER WITHOUT SPECIFIC APPROVAL. DO NOT PROCEED WITHOUT ANY STRUCTURAL MODIFICATIONS WITHOUT PERMISSION OF THE PROJECT STRUCTURAL ENGINEER.

3. REPAIRS: REPAIR ANY AND ALL DAMAGE TO WORK OF OTHER TRADES CAUSED BY CUTTING AND PATCHING OPERATIONS, USING SKILLED MECHANICS OF THE TRADES INVOLVED.

I. GENERAL: PROVIDE ALL HOLES, SLEEVES, AND OPENINGS REQUIRED FOR THE COMPLETION OF WORK AND RESTORE ALL SURFACES DAMAGED TO MATCH SURROUNDING SURFACES. MAINTAIN INTEGRITY OF ALL FIRE AND SMOKE RATED BARRIERS USING APPROVED FIRE-STOPPING SYSTEMS. WHEN CUTTING HOLES OR OPENINGS, OR INSTALLING SLEEVES. DO NOT CUT, DAMAGE OR DISTURB STRUCTURAL ELEMENTS OR REINFORCING STEEL UNLESS APPROVED IN WRITING, BY THE PROJECT STRUCTURAL ENGINEER

2. CONDUIT PENETRATIONS: SIZE CORE DRILLING HOLES SO THAT AN ANNULAR SPACE OF NOT LESS THAN 1/4 INCH AND NOT MORE THAN I INCH IS LEFT AROUND THE CONDUIT, PIPE, ETC. WHEN OPENINGS ARE CUT IN LIEU OF CORE DRILLED, PROVIDE SLEEVE IN ROUGH OPENING. SIZE SLEEVES TO PROVIDE AN ANNULAR SPACE OF NOT LESS THAN 1/4 INCH AND NOT MORE THAN I INCH AROUND THE CONDUIT, PIPE, ETC. PATCH AROUND THE SLEEVE TO MATCH SURROUNDING SURFACES.

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RAMAKER & ASSOCIATES, INC. 100% EMPLOYEE-OWNED 855 Community Dr, Sauk City, WI 53583 608-643-4100 www.Ramaker.com Sauk City, WI • Willmar, MN Woodcliff Lake, NJ • Bayamon, PR	d by Ramater and Accordates Inc
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- PROPOSED TELCO PEDESTAL LOCATION PROPOSED FIBER VAULT LOCATION

- PROPOSED TRANSFORMER LOCATION



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cloud
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MARK DATE DESCRIPTION
MONTROSE
PROJECT INFORMATION: FRITZ RD. & MONTROSE RD. BELLEVILLE, WI 53508 PARCEL ID # 050830 900
GROUNDING PLAN
SCALE: AS NOTED
PROJECT 3227

ELECTRICIAN TO PROVIDE DOCUMENT OF OHM'S TEST PRIOR TO BACKFILL - MUST INDICATE LESS THAN 5 OHMS (TEST RESULTS) PICTURES MUST BE EMAILED TO PROJECT MANAGER. PAYMENT WILL BE HELD UNTIL PICTURES HAVE BEEN RECEIVED BY PROJECT MANAGER

DING	SCHEDULE	
	#2 TINNED SOLID COPPER WIRE	
	EXOTHERMIC CONNECTION	
	GROUND ROD	
)	GROUND TEST WELL	
	MASTER ISOLATED GROUND BAR	
	COAX ISOLATED GROUND BAR EXTERNAL	
		J

SHEET NUMBER G-1



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GUY WIRE, TYP. GUY WIRE BIMETAL CLAMP	RAMAKER & ASSOCIATES, INC. L00% EMPLOYEE-OWNED 855 Community Dr, Sauk City, WI 53583 608-643-4100 www.Ramaker.com Sauk City, WI • Willmar, MN Woodcliff Lake, NJ • Bayamon, PR
EXOTHERMIC WELD OR APPROVED UNDERGROUND COMPRESSION CONNECTING TO 8' GROUND ROD TEST HEAD	cloud
REFERENCE CELL LEAD WIRE USE ANCHOR GUARD AG3	417 PINE ST., FLOOR 2 GREEN BAY, WI 54301 PH.: (920) 940-0147
REFERENCE CELL CONCRETE ANCHOR CONCRETE ANCHOR SACRIFICIAL ANODE COPPER GROUND ROD GER WILL MAKE CALL PRROSION CONTROL NDING AND OL	Certification & Seal:
- RF CABLE GROUND KIT JUMPER - COAX CABLE - #6 AWG	MARK DATE DESCRIPTION ISSUE PHASE REV A DATE IO/12/2018 PROJECT TITLE:
 PROPOSED TOWER GROUND BAR PROPOSED TOWER 	MONTROSE
- #2 TINNED SOLID COPPER CONDUCTOR	PROJECT INFORMATION: FRITZ RD. & MONTROSE RD. BELLEVILLE, WI 53508 PARCEL ID # 050830190011
NOTE: CONTRACTOR TO PROVIDE AND INSTALL ADDITIONAL GROUND BARS TO ACCOMMODATE PROPOSED COAX GROUND KITS, GROUND BARS AND GROUND KITS TO BE INSTALLED AT INTERVALS NO GREATER THAN 100'	GROUNDING DETAILS
T TOWER	PROJECT 3227 I
6	NUMBER G-2







	Answer in the second
	disclosed ett
-3	Certification & Seal:
	- this document nor the information herein is to
	ISSUE REV A DATE 10/12/2018
	PROJECT INFORMATION: FRITZ RD. & MONTROSE RD. BELLEVILLE, WI 53508 PARCEL ID # 050830190011
rion Nd Ring	GROUNDING DETAILS
MIN. OD ADWELD	SCALE: NONE
	PROJECT 3227
	NUMBER (7-4

ss Dane

Parcel Number - 040/0508-301-9001-1

Current

484 Fritz Rd

Q (First Middle Last)

A Add

Owner

Parcel Detail		Less —	
Municipality Name	TOWN OF MONTROSE		
State Municipality Code	040		
Township & Range	Section	Quarter/Quarter & Quarter	
T05NR08E	30	SW of the NE	
Plat Name	METES AND BOUNDS		
Block/Building			
Lot/Unit			
Parcel Description	SEC 30-5-8 I TO NE COR C/L HWY TH 1/4 TH S TO FRITZ RD TH FT TO POB I This proper be abbrevia please refe	PRT SW1/4NE1/4 BEG SE COR TH N TH W 1125.3 FT TH S 363 FT TH W I NULY ALG HWY C/L TO W LN SD C/L MONTROSE RD TH ELY TO C/L 4 S ALG SD C/L TO S LN TH E 577.5 EXC CSM 5957 rty description is for tax purposes. It may ated. For the complete legal description rt o the deed.	
Current Owner	DENNIS V N		
Current Co-Owner	LISA M NOL	.DEN 🚅	
Primary Address	484 FRITZ R	D	
Additional Address	481 FRITZ R	D	
Billing Address	484 FRITZ RD BELLEVILLE WI 53508		

484 Fritz Rd, E	elleville, WI 53508	Directions Save		
		484 Frit	z Road	
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		Google	Monuoue Rd	
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and the second second				

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	Tax Year 2017	
Assessed Land Value Assessed Improvement Value		Total Assessed Value
\$26,200.00	\$261,100.00	
Taxes:		\$4,450.44
Lottery Credit(-):	\$139.57	
First Dollar Credit(-):	\$79.76	
Specials(+):	\$213.92	
Amount:		\$4,445.03

Tax Information Details

Tax Payment History

Search

Summary Report

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Resources 🚯

A Log In

District Information			
Туре	State Code	Description	
REGULAR SCHOOL	0350	BELLEVILLE SCHOOL DIST	
TECHNICAL COLLEGE	0400	MADISON TECH COLLEGE	

Doc. Type	Date Recorded	Doc. Number	Volume	Page
QCD	04/17/2002	3477483		

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By Parcel Number: 0508-301-9001-1

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Open Book dates have passed for

Starts: -07/23/2018 - 03:30 PM

Ends: 07/23/2018 05:30 PM

Show Assessment Contact Information 🛩

Zoning Information

About Open Book

Assessment Detail

Assessment Year 😡

Assessment Acres

Improved Value

Valuation Date 🔞

Open Book

the year

Land Value

Total Value

Valuation Classification

Average Assessment Ratio 🚱

Show Valuation Breakout

Estimated Fair Market Value 😨

≪ < Newer

2018

34.000

N/A

N/A 06/25/2018

\$26,300.00

\$234,900.00

\$261,200.00

G4 G5 G5M G7

Older > >>

2017

34.000

N/A

N/A

Starts: 07/30/2018 - 06:00 PM Ends: To Adjourn

About Board Of Review

Board Of Review

\$26,200.00

\$234,900.00

\$261,100.00

06/21/2016

G4 G5 G5M G7

For the most current and complete zoning information, contact the Division of Zoning.

Zoning

A-1(EX)

Zoning District Fact Sheets

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Parcel Number - 040/0508-301-9001-1

Current

Im Ioun Road

		Parcel Details	
Municipality Name	TOWN OF MONTROSE		
State Municipality Code	040		
Township & Range	Section	Quarter/Quarter & Quarter	
T05NR08E	30 SW of the NE		
Plat Name	METES AND BOUNDS		
Block/Building			
Lot/Unit			
Parcel Description	SEC 30-5-8 TO NE COR C/L HWY TH 1/4 TH 5 TO FRITZ RD TH FT TO POB This prope abbreviate to the deer	PRT SW1/4NE1/4 BEG SE COR TH N TH W 1125.3 FT TH S 363 FT TH W I NWLY ALG HWY C/L TO W LN SD O C/L MONTROSE RD TH ELY TO C/L 4 S ALG SD C/L TO S LN TH E 577.5 EXC CSM 5957 rty description is for tax purposes. It may be the sch. For the complete legal description please refer d.	
Current Owner	DENNIS V NOLDEN		
Current Co-Owner	LISA M NOLDEN		
Primary Address	484 FRITZ R	RD .	
Additional Address	481 FRITZ R	2D	
Billing Address	484 FRITZ RD BELLEVILLE WI 53508		

-

Current Year Assessment

Assessment Year	2015
Valuation Classification	G4 G5 G5M G7
Assessment Acres	34.000
Land Value	\$26,100.00
Improved Value	\$234,900.00
Total Value	\$261,000.00

Zoning Information

For the most current and complete zoning information, contact the Division of Zoning.

Zoning	
A-1(EX)	
Zoning District Fact Sheets	

Parcel Map



Sources: Esri, HERE, DeLorme, Intermap, incr...

Montrone Rol

	Current Year Taxes		
Assessed Land Value Assessed Improvement Value		Total Assessed Value	
\$26,100.00	\$234,900.00	\$261,000.00	
Taxes:		\$4,248.87	
Lottery Credit(-):		\$114.36	
First Dollar Credit(-):		\$70.79	
Specials(+):		\$213.67	
Amount:		\$4,277.39	

Districts					
Туре	State Code	Description			
REGULAR SCHOOL	0350	BELLEVILLE SCHOOL DIST			
TECHNICAL COLLEGE	0400	MADISON TECH COLLEGE			

Recorded	Documents
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Doc. Type	Date Recorded	Doc. Number	Volume	Page
QCD	04/17/2002	3477483		
WD	08/14/1998	3007015		
LC	10/26/1989	2169105	13471	90

Parcel Number - 040/0508-301-9001-1

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Current

< Parcel Parents

Summary Report

Parcel Summary		More +
Municipality Name	TOWN OF MONTROSE	
Parcel Description	SEC 30-5-8 PRT SW1/4NE1/4 BEG SE COR TH	
Owner Names	DENNIS V NOLDEN LISA M NOLDEN	1
Primary Address	484 FRITZ RD	
Billing Address	484 FRITZ RD BELLEVILLE WI 53508	

Assessment Summary	More +		
Assessment Year	2015		
Valuation Classification	G4 G5 G5M G7		
Assessment Acres	34.000		
Land Value	\$26,100.00		
Improved Value	\$234,900.00		
Total Value	\$261,000.00		

Show Valuation Breakout

Zoning Information

For the most current and complete zoning information, contact the Division of Zoning.

Zoning	
A-1(EX)	

Zoning District Fact Sheets

Parcel Maps				
	Montrose	Rd Esri, HERE, Delorme	, Mapmy	Montrose Rd.
DCIW	ah	Google Map	Bin	g Мар
Tax Summary (2015)				More +
E	-Statem	ent E-Bill E-I	Receipt	1
Assessed Land Value	Assess	sed Improvement Va	lue	Total Assessed Value
\$26,100.00		\$234,	900.00	\$261,000.00
axes:				\$4,248.87
ottery Credit(-):				\$114.36
irst Dollar Crodit()				++++.50

the Donar Creat(-).	\$70.79
Specials(+):	\$213.67
Amount:	\$4,277.39

District Information		
Туре	State Code	Description
REGULAR SCHOOL	0350	BELLEVILLE SCHOOL DIST
TECHNICAL COLLEGE	0400	MADISON TECH COLLEGE

Page 3	of 3
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Recorded Documents				
Doc. Туре	Date Recorded	Doc. Number	Volume	Page
QCD	04/17/2002	3477483	and a subscription of the	

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By Parcel Number: 0508-301-9001-1 By Owner Name: DENNIS V NOLDEN By Owner Name: LISA M NOLDEN Document Types and their Abbreviations Document Types and their Definitions



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