

**Item #1A:**  
**Report Of PCZBA Meeting - March 4, 2014**  
**Additional Cell Tower Antennas - 4210 IL Route 22**



**MEETING AGENDA OF THE  
PLAN COMMISSION & ZONING BOARD OF APPEALS  
REGULAR MEETING**

**Tuesday March 4, 2014 at 7:00 P.M.**

**Village Hall, 3110 OLD MCHENRY ROAD LONG GROVE, ILLINOIS**

**1. Call to Order**

**2. New Business;**

**Public Hearing - Consideration of a request to allow the continued operation and maintenance of a wireless communications antenna and related facilities and any other relief necessary to allow co-location of additional antennas on the existing monopole telecommunications tower at 4210 Illinois Route 22 and within the R-1 Zoning District submitted by Crown-Castle Communications.**

**3. Old Business;**

**Public Hearing – Continuation; Consideration of Amendments to the Zoning Code of the Village of Long Grove regarding Permitted and Special Uses in the B-1 Historic District.**

**4. Approval of Minutes; February 4, 2014**

**5. Other Business;**

**Executive Session: Personnel Matters**

**6. Adjournment:**

**Next Regular Meeting – April 1, 2014**

**Village Board Representative; (3/11/14) Commissioner  
Kazmer.**

The Village of Long Grove is subject to the requirements of the Americans with Disabilities Act of 1990. Individuals with disabilities who plan to attend this meeting and who require certain accommodations in order to allow them to observe and/or participate in this meeting, or who have questions regarding the accessibility of the meeting or the facilities, are requested to phone David Lothspeich, Long Grove Village Manager at 847-634-9440 or TDD 847-634-9650 promptly to allow the Village of Long Grove to make reasonable accommodations for those persons.

**MEETING  
PROCEDURES**

Plan Commission meeting follow the procedures outlined below. In the spirit of fairness to all parties, any of these procedures may be modified for a particular item at the discretion of the Chair.

1. Introduction of item by the Chair.
2. Village Staff's summary of Petition.
3. Presentation by the Petitioner.
4. Public Testimony and Comment.
5. Cross-Examination.
6. Response by the Petitioner.
7. Questions by the Commission.
8. Commission Discussion and Deliberation.
9. Commission Action.



## STAFF REPORT

**TO:** Long Grove PCZBA

**FROM:** JAMES M. HOGUE, VILLAGE PLANNER

**DATE:** 2/20/14

**RE:** PCZBA REQUEST #02-14; Consideration of a request for a Special Use Permit and/or additional relief necessary and/or appropriate under the zoning code to allow the continued operation and maintenance of an existing wireless communication antenna and related facilities and the co-location of additional antennas on the existing monopole telecommunications tower at 4210 Illinois Route 22 and zoned under the R-1 Zoning District Classification submitted by Amanda Roc on behalf of Crown-Castle International (Sprint Telecommunications).

**Item:** PCZBA Petition 02-14 submitted February 5, 2014. Referral by Village Board not required. Publication in newspaper completed 2/12/2014 and is therefore timely.

**History:** The property is zoned R-1 Residential District and contains a single family residence as well as an existing monopole cell tower facility with fifteen (15) antennas on three platforms and five (5) dishes attached to the tower. The property was force annexed into the Village in 2002. The existing monopole and antennas were on the property in question upon annexation and developed under the authority of Lake County. In 2009 the Village approved ordinance 2009-O-10 which allowed for the operation and maintenance of the tower as well as three additional antennas to be constructed at a height of 135' on the existing 165' foot tower constructed in the county.

**Proposal:** Consideration of a request by "Crown Castle Corporation" (Sprint Telecom) for a special use permit to allow continued operation and maintenance of the existing monopole, antennas and related facilities and co-location of additional antennas on an existing monopole telecommunications tower and a 3.25' x 2.5' equipment cabinet improvement. Petitioner wishes to add three new antennas (to the three existing antennas) on an existing antenna platform at a height of 149 feet on the existing 165 foot monopole.

**Land Use, Zoning and Locational Data:**

1. Proposed Zoning: No zoning change requested; amendment of the existing SUP is requested. Ordinance 2009-O-10 did allow for the continued operation and maintenance of the existing tower, antenna and facilities and the co-location of additional antennas and related equipment facilities on the existing monopole and site within the Village.
2. Surrounding Land Uses and Zoning;

<i>Direction</i>	<i>Existing Use</i>	<i>Land Use Plan Designation/Zoning</i>
<b>NORTH</b>	Residential	Residential; R-2 PUD White Oaks
<b>SOUTH</b>	Residential	Residential; R-3 PUD The Orchards
<b>EAST</b>	Residential	Residential; R-1 & R2 PUD Shaheen's & White Oaks PUD's
<b>WEST</b>	Vacant/Agricultural	Part of the Route 22/Old McHenry Road Sub-Area; R-1

3. Location; The property is located on the north side of Route 22. The existing cell tower and accessory equipment storage structures are located north of the existing residence in the southern third of the property. The existing tower, antennas and related facilities are more or less centered on the property.
4. Acreage; The 4210 property contains 4.0 +/- acres of land area. The existing cell tower & equipment facilities occupy approximately 40' x 30' (1200 +/- sq. ft.) of the four acre piece.
5. Based upon information available through Lake County GIS, the property contains FEMA Floodplain, Flood of Record area and/or wetlands (LCWI & ADID). However these are confined to the northern third of the property. The existing tower and related facilities are approximately 300 feet from the edge of the floodplain and wetlands on the property. (See Maps).
6. Topography; See attached Map from Lake County GIS.

Zoning Data	Existing	Proposed	Zoning Code	PUD
Lot Area	174,240 sq. ft.	174,240 sq. ft.	3 acres (130,680 sq. ft.)	N/A
Floor Area (Total Floor Area)	N/A*	N/A	N/A	N/A
Lot Coverage (In Square Feet)	UNKNOWN	8 sq. ft.**	40% (69,700 sq. ft.)	N/A
Height	165'	165'	125'***	N/A

NOTES :

\* Applies to principal residential structure only.

\*\* 8 sq. ft. Equipment cabinet proposed @ 6.5 feet tall - Maximum permitted under Wireless Services Antenna Regulations is 150 sq. ft. / 15 feet.

\*\*\* Maximum Height for tower unless otherwise authorized by SUP

Yard Requirements (set-backs);

	Existing*	Proposed**	Zoning*** Ordinance (R-1 Standards)	P.U.D.
Front Yard (South)	390'	390'	100'	N/A
Side Yard (West)	30'	30'	50'	N/A
Side Yard (East)	62'	62'	50'	N/A
Rear Yard (North)	820'	810'	50'	N/A

NOTES:

\* Approximate measurement; scaled to 40'x 30' tower & equipment area.

\*\* Scaled to equipment shed.

\*\*\* For Principal Structures in R-1 District; Cell towers regulated via 5-9-6 of Village Zoning Code

## Analysis & Conclusions:

The existing monopole and cellular antennas were permitted and built under the authority of Lake County. In 2002 the property upon which the tower and antennas are located was force annexed into the Village. As no special use permit was ever issued by the Village for the tower as mandated by 5-9-6 of the Village Code, ordinance 2009-O-10 allowed for the operation and maintenance of the tower as well as three additional antennas to be constructed on the existing tower. This ordinance essentially brought the tower in the village jurisdiction and allowed for continued operation and maintenance of the tower & related equipment.

The existing monopole structure is 165 feet in height (including antennas). Per Village Code height is limited to 125 feet. Per the site plan submitted by the petitioner, antennas would be added to the existing platform at a height of 149' feet. No additional antenna platform or increase in antenna height is being requested from what currently exists (see Feb 19, 2014 photo). Although technically not in compliance with Village Code with regard to height, no increase in antenna height is being requested over what exists currently. The PCZBA should consider the height question in light of the established co-location policy also adopted by the Village and determine which is more beneficial to the Village in this instance.

The petitioner has submitted a report from B+T Group structural engineers (dated 12.16.2013) which indicates the existing monopole structure has "sufficient capacity" for the existing and proposed loading and that no modifications to the monopole are required at this time (report attached).

The equipment cabinet is proposed to be installed on an existing platform within the fenced area of the "compound" on site. No expansion of the compound area is requested or proposed.

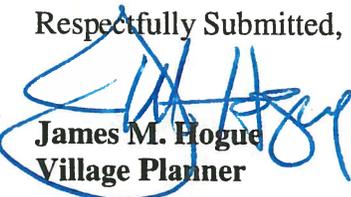
There is extensive vacant property to the north and setbacks or encroachment into a floodplain or wetland should not be an issue with the request. Lot coverage, should not be an issue as well as it does not appear the 40% lot coverage threshold has been reached and increase in lot coverage is very minimal. On this property approximately 69,700 square feet of land area (1.6 acres) could be covered to achieve the 40% maximum lot coverage figure. The vast majority of the property remains vacant with most development occurring in the southern third of the property.

Additionally the proposal is in conformance with the Village policy of co-location of personal wireless service antennae as follows;

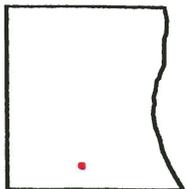
Location. Personal wireless services antennae shall be mounted on existing antenna support structures or other lawfully existing buildings, unless otherwise provided in this ordinance. No more than one antenna support structure shall be permitted on any one zoning lot.

Co-Location. Unless otherwise authorized by the Village for good cause shown, every newly constructed personal wireless services antenna support structure shall be designed, constructed and installed to be of a sufficient size and capacity to allow the commercially feasible location of antennae for additional personal wireless service providers on such structure in the future

Respectfully Submitted,

  
**James M. Hogue**  
**Village Planner**

# Lake County, Illinois



**LakeCounty**  
Geographic Information System

Lake County Department  
of Information Technology  
18 N County St  
Waukegan IL 60085  
(847) 377-2373



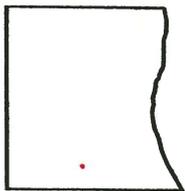
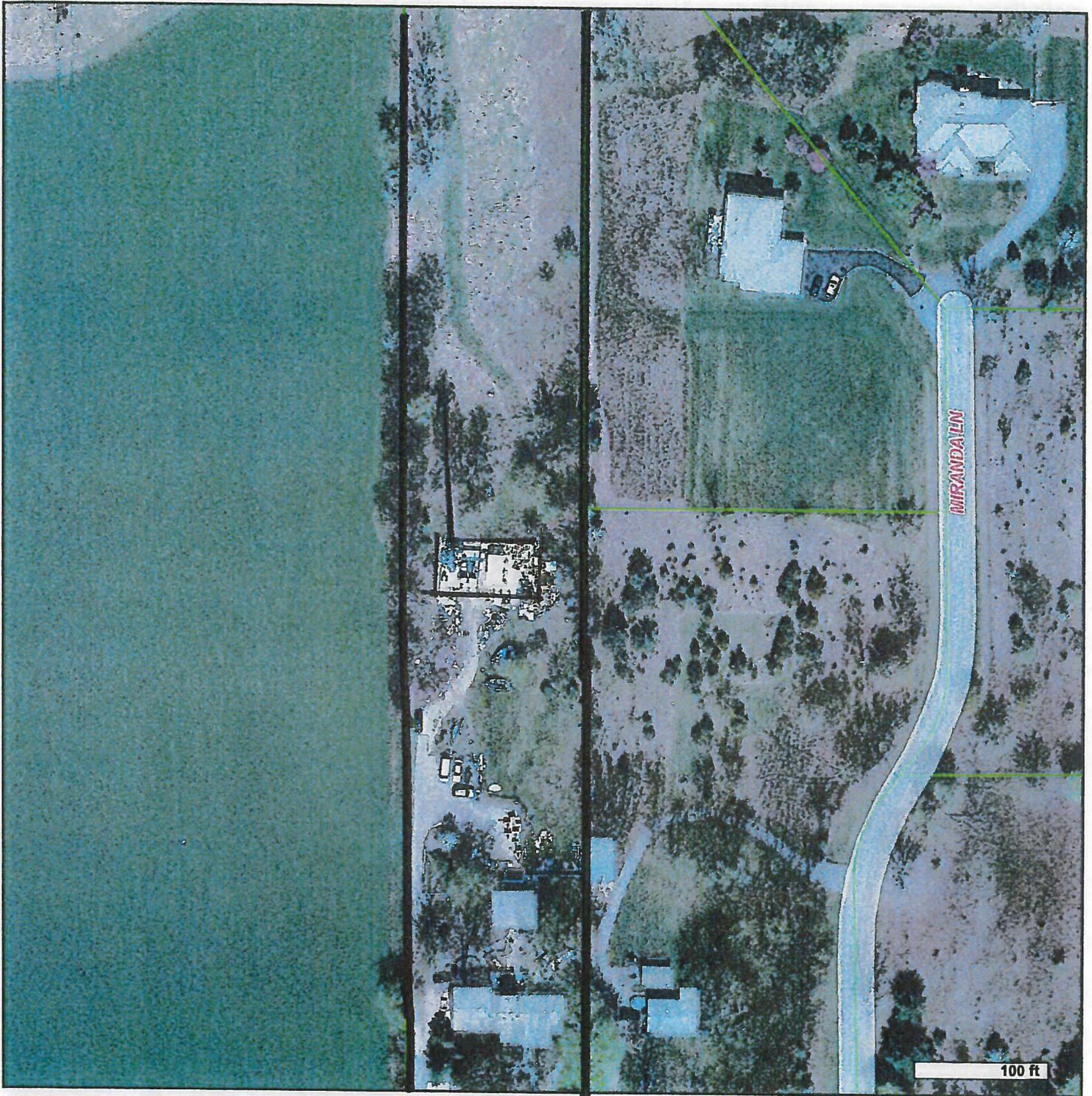
-  Forest Preserves
-  Lake County Border
-  Streams
-  Tax Parcels
-  Trails
-  2011 Buildings

Map Printed on 02/20/2014

## Disclaimer

The selected soil feature layer may not occur anywhere in the current map extent. A Registered Land Surveyor should be consulted to determine the precise location of property boundaries on the ground. This map does not constitute a regulatory determination and is not a base for engineering design. This map is intended to be viewed and printed in color.

# Lake County, Illinois



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of Information Technology  
18 N County St  
Waukegan IL 60085  
(847) 377-2373

Map Printed on 02/20/2014

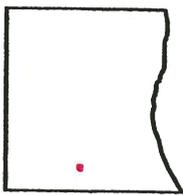


-  Forest Preserves
-  Lake County Border
-  Streams
-  Tax Parcels
-  Trails
-  2011 Buildings

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of Information Technology  
18 N County St  
Waukegan IL 60085  
(847) 377-2373

Map Printed on 02/20/2014



- |                            |                           |
|----------------------------|---------------------------|
| Forest Preserves           | Floodway Areas In Zone AE |
| Lake County Border         | Other Flood Areas         |
| Streams                    |                           |
| Tax Parcels                |                           |
| Trails                     |                           |
| Special Flood Hazard Areas |                           |
| 2011 Buildings             |                           |
| General Structures         |                           |
| FEMA Base Flood Elevation  |                           |

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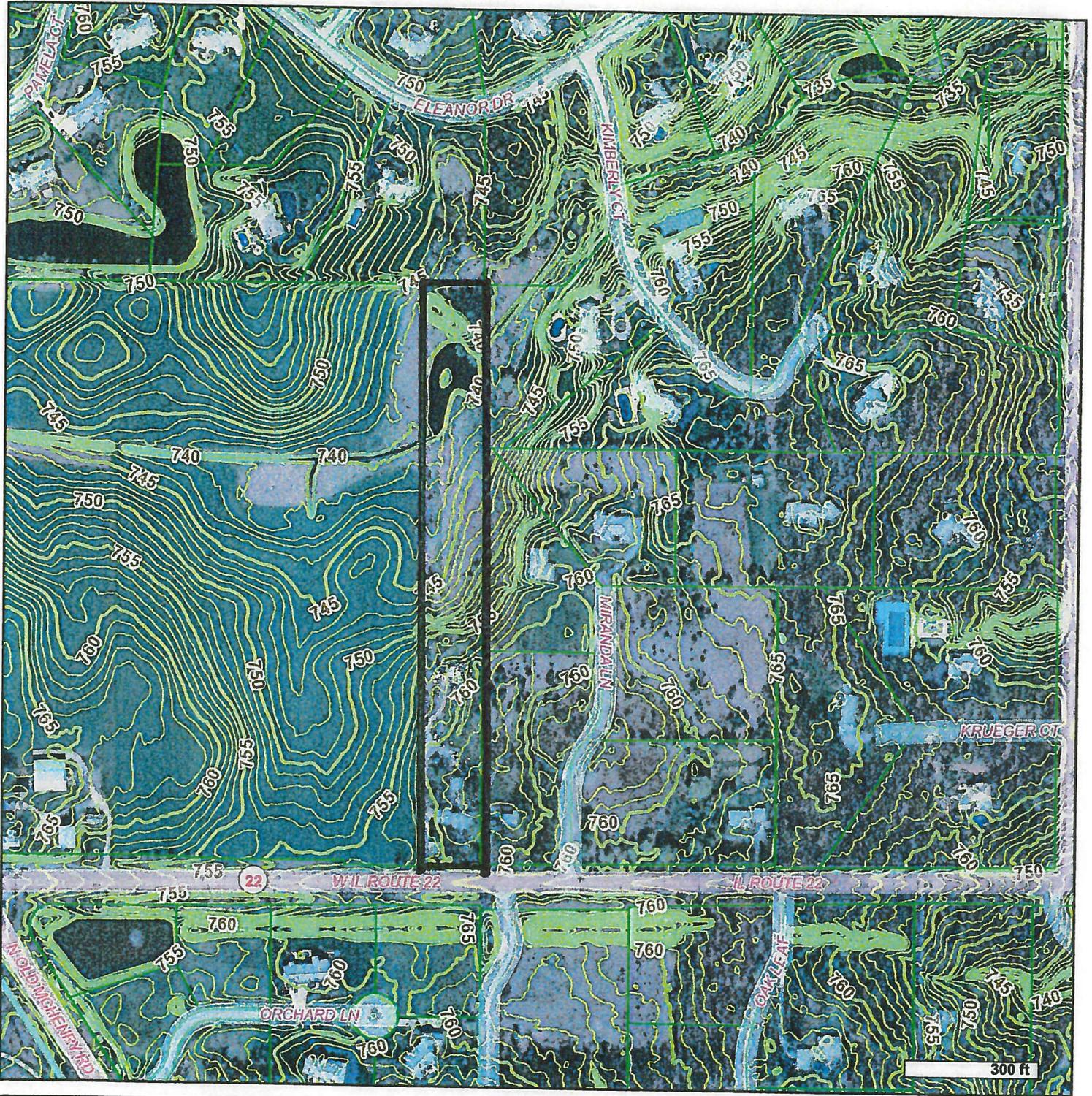
Map Printed on 02/20/2014

	Forest Preserves
	Lake County Border
	Wetlands
	Streams
	Tax Parcels
	Trails
	ADID with 100ft Buffer
	ADID Boundary
	2011 Buildings

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# Lake County, Illinois



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(847) 377-2373

Map Printed on 02/20/2014

- Forest Preserves
- Lake County Border
- Streams
- Tax Parcels
- Trails
- 2011 Buildings
- Major Contour Line
- Minor Contour Line

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FEB 19 2014

← SPRINT ANTENNAS ON  
FLAT FARM

December 16, 2013

Patrick Byrum  
Crown Castle  
3530 Toringdon Way Suite 300  
Charlotte, NC 28277  
(704) 405-6532



B+T Group  
1717 S. Boulder, Suite 300  
Tulsa, OK 74119  
(918) 587-4630  
btwo@btgrp.com

**Subject:** Structural Analysis Report

**Carrier Designation:** *Sprint PCS Co-Locate- Scenario A*  
**Carrier Site Number:** CH03XC407  
**Carrier Site Name:** BOHAC

**Crown Castle Designation:**  
**Crown Castle BU Number:** 875565  
**Crown Castle Site Name:** BOHAC  
**Crown Castle JDE Job Number:** 252303  
**Crown Castle Work Order Number:** 685209  
**Crown Castle Application Number:** 206516 Rev. 1

**Engineering Firm Designation:** B+T Group Project Number: 83230.002.01

**Site Data:** 19520 WEST HIGHWAY 22, LAKE ZURICH, Lake County, IL  
Latitude 42° 11' 54.48", Longitude -88° 0' 52.05"  
165 Foot - Monopole Tower

Dear Patrick Byrum,

B+T Group is pleased to submit this "Structural Analysis Report" to determine the structural integrity of the above mentioned tower. This analysis has been performed in accordance with the Crown Castle Structural 'Statement of Work' and the terms of Crown Castle Purchase Order Number 600808, in accordance with application 206516, revision 1.

The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

**LC5: Existing + Proposed Equipment**

Note: See Table 1 and Table 2 for the proposed and existing loading, respectively.

**Sufficient Capacity**

The analysis has been performed in accordance with the TIA-222-G standard and IBC 2009 based upon a wind speed of 89 mph 3-second gust, exposure category C with topographic category 1 and crest height of 0 feet.

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

We at B+T Group appreciate the opportunity of providing our continuing professional services to you and Crown Castle. If you have any questions or need further assistance on this or any other projects please give us a call.

Respectfully submitted by:  
B+T Engineering, Inc.

Kishore Machani  
Project Engineer

John W. Kelly, P.E., S.E.  
Vice President



14/16/13

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## 1) INTRODUCTION

This tower is a 165 ft Monopole tower designed by VALMONT in May of 1998. The tower was originally designed for a wind speed of 85 mph per TIA/EIA-222-F.

## 2) ANALYSIS CRITERIA

The structural analysis was performed for this tower in accordance with the requirements of TIA-222-G Structural Standards for Steel Antenna Towers and Antenna Supporting Structures using a 3-second gust wind speed of 89 mph with no ice, 40 mph with 0.75 inch ice thickness and 60 mph under service loads, exposure category C with topographic category 1 and crest height of 0 feet.

**Table 1 - Proposed Antenna and Cable Information**

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)	Note
145.0	148.0	3	Kmw Communications	ET-X-WM-18-65-8P	--	--	--
		3	Samsung Telecommunications	2.5GHz RRH-V3			
		3	Samsung Telecommunications	OPTIC FIBER JUNCTION CYLINDER			
		3	Samsung Telecommunications	POWER JUNCTION CYLINDER			

**Table 2 - Existing Antenna and Cable Information**

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)	Note
155.0	161.0	1	Andrew	VHLP1-23	9 6 2 4	1 5/8 1 5/8 5/16 1/2	1
		1	Andrew	VHLP2-11			
		2	Andrew	VHLP800-11			
	157.0	6	Ems Wireless	RR90-11-00DBL			
		3	Kmw Communications	HB-X-WM-17-65-00T			
		3	Kmw Communications	KMDAPS2050000			
	155.0	1	Tower Mounts	Platform Mount (LP 405-1)			
145.0	148.0	3	Kmw Communications	ET-X-TS-70-15-62-18-iR-RC	6	1 5/8	1
	145.0	3	Samsung Telecommunication	800MHz EXT. FILTER			
		3	Samsung Telecommunication	RRH-C2 w/EXT FILTER			
		3	Samsung Telecommunication	RRH-P4 Ph1			
	1	Tower Mounts	Platform Mount [LP 601-1]				
133.0	135.0	3	kmw communications	HB-X-AW-19-65-00T	6	1 5/8	1

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)	Note
	133.0	1	tower mounts	T-Arm Mount [TA 602-3]			
98.0	100.0	1	Andrew	VHLP2-11	2 2	1/2 3/8	1
		1	Andrew	VHLP2-180			
	98.0	1	nec corporation	NLITE 11G 155			
		1	nec corporation	NLITE 18G 155			
		2	tower mounts	Pipe Mount [PM 601-1]			

Notes:  
 1) Existing Equipment

**Table 3 - Design Antenna and Cable Information**

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
162	162	1	--	Cellular Platform	--	--
		12	Swedcom	ALP9212-N		
155	155	1	--	Cellular Platform	--	--
		12	Swedcom	ALP9212-N		
145	145	1	--	Cellular Platform	--	--
		12	Swedcom	ALP9212-N		
135	135	1	--	Cellular Platform	--	--
		12	Swedcom	ALP9212-N		

### 3) ANALYSIS PROCEDURE

**Table 4 - Documents Provided**

Document	Remarks	Reference	Source
Online Application	Sprint Co-Locate Revision #1	206516	CCI Sites
Tower Manufacturer Drawings	Valmont, Order No. 17226-98	1918305	CCI Sites
Foundation Drawings	Valmont, Job No. 17226-98	1436396	CCI Sites
Geotech Report	ETS, Project No. C4145	1521030	CCI Sites
Antenna Configuration	Crown CAD Package	Date: 12/09/2013	CCI Sites

#### 3.1) Analysis Method

tnxTower (version 6.1.3.1), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A.

#### 3.2) Assumptions

- 1) Tower and structures were built in accordance with the manufacturer's specifications.
- 2) The tower and structures have been maintained in accordance with the manufacturer's specification.
- 3) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.
- 4) Mount areas and weights are assumed based on photographs provided.

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

**4) ANALYSIS RESULTS**

**Table 5 - Section Capacity (Summary)**

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L1	165 - 119.33	Pole	TP30.85x19.88x0.25	1	-10.576	1556.500	36.5	Pass
L2	119.33 - 78.25	Pole	TP40.2x29.228x0.375	2	-19.590	3232.970	40.7	Pass
L3	78.25 - 38.17	Pole	TP49.07x38.071x0.438	3	-32.050	4525.170	44.6	Pass
L4	38.17 - 0	Pole	TP57.35x46.556x0.5	4	-51.451	6104.990	45.9	Pass
							Summary	
						Pole (L4)	45.9	Pass
						RATING =	45.9	Pass

**Table 6 - Tower Component Stresses vs. Capacity – LC5**

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	Base	58.4	Pass
1	Base Plate	Base	33.6	Pass
1	Base Foundation	Base	34.9	Pass

<b>Structure Rating (max from all components) =</b>	<b>58.4%</b>
---	--------------

Notes:

- 1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.
- 2) Capacities up to 105% are considered acceptable based on analysis methods used.

**4.1) Recommendations**

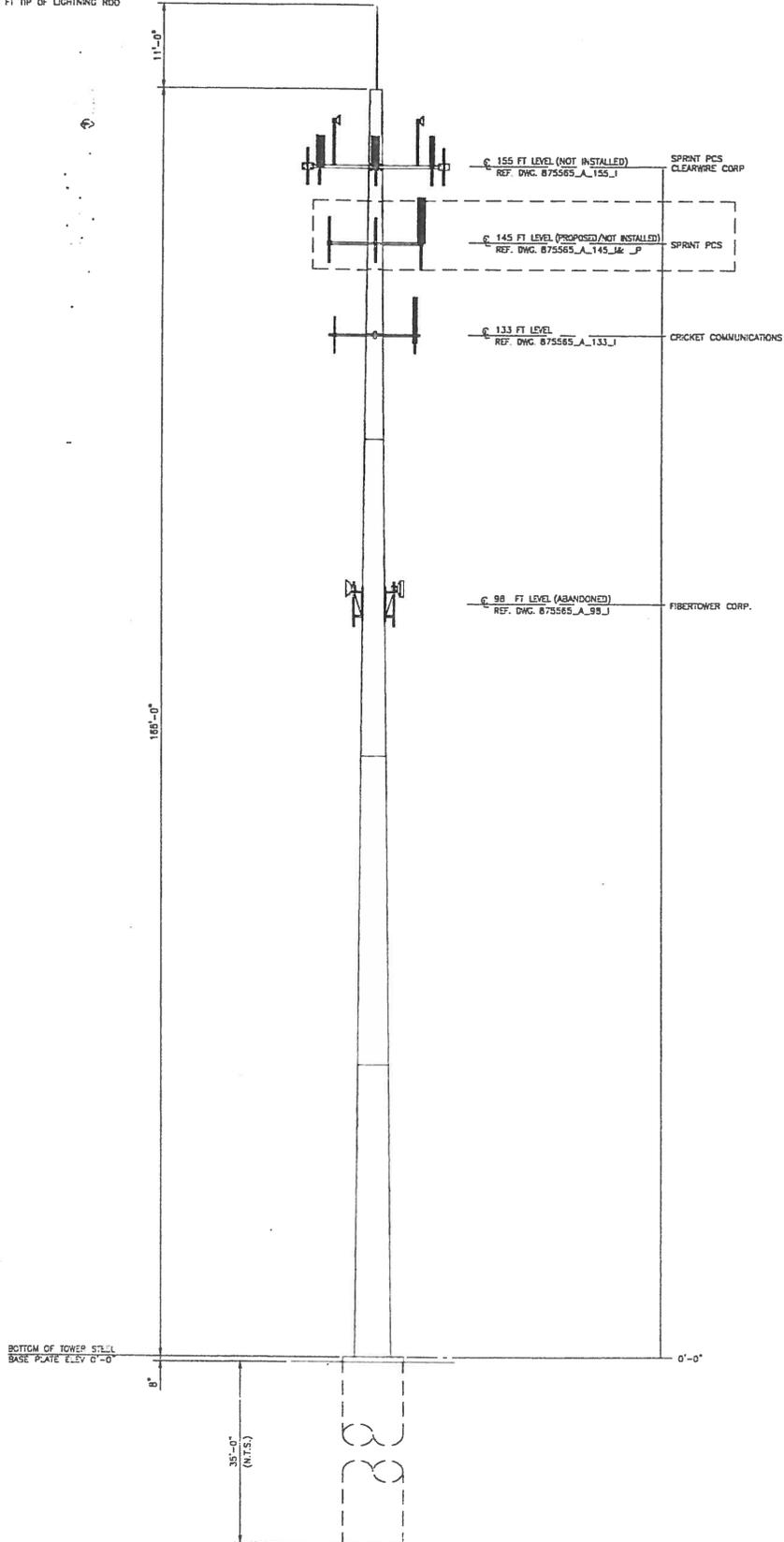
The tower and its foundation have sufficient capacity to carry the existing and proposed loads. No modifications are required at this time.

**APPENDIX A**  
**TNXTOWER OUTPUT**



176 FT TIP OF LIGHTNING ROD

875565\_TW\_A.DWG



**TOWER INFORMATION:**  
 VALMONT  
 165 FT MONOPOLE TOWER  
 4 FT 9 IN BASE WIDTH  
 1 FT 9 IN TOP WIDTH

BUSINESS UNIT: 875565 TOWER ID: A

**ELEVATION**

SCALE: 1" = 15'-0"  
 1

SHEET NUMBER	TITLE	DATE	BY

REVISIONS			
NO.	DATE	DESCRIPTION	BY
1	24/08/09	AS-BUILT INFORMATION ADDED PER WORK ORDER # 287270	SAC
2	29/04/10	AS-BUILT INFORMATION ADDED PER WORK ORDER # 333229	AM
3	03/05/10	APPLICATION ADDED PER WORK ORDER # 333473	CCH
4	11/11/10	AS-BUILT INFORMATION ADDED PER WORK ORDER # 344062	SV
5	07/07/11	APPLICATION ADDED PER WORK ORDER # 271027	VP
6	22/7/2011	UPDATED PER WORK ORDER 345116	ADL
7	29/7/2011	UPDATED PER WORK ORDER 421833	AMC
8	1/10/2011	UPDATED PER WORK ORDER 451363	SI
9	9/12/2011	UPDATED PER WORK ORDER 485207	KKH

CROWN CASTLE	CROWN REGION ADDRESS USA
	SCALE: 1" = 15'-0" 1

DATE: 1/13/10



CROWN REGION ADDRESS  
USA

30000 WILSON ST  
MILWAUKEE, WI 53212

NO.	DATE	DESCRIPTION
BY		
AP	28/09/07	APPROVED FOR WORK ORDER # 280007
DR	24/09/08	REVISED FOR WORK ORDER # 280143
DR	11/11/10	REVISED FOR WORK ORDER # 280143
DR	27/04/12	REVISED FOR WORK ORDER # 280143
DR	28/07/12	REVISED FOR WORK ORDER # 280143

DRAWN BY: BBF  
CHECKED BY:  
DRAWING DATE: 280007

SITE NUMBER:  
SITE NAME:

BOHAC  
BUSINESS UNIT NUMBER

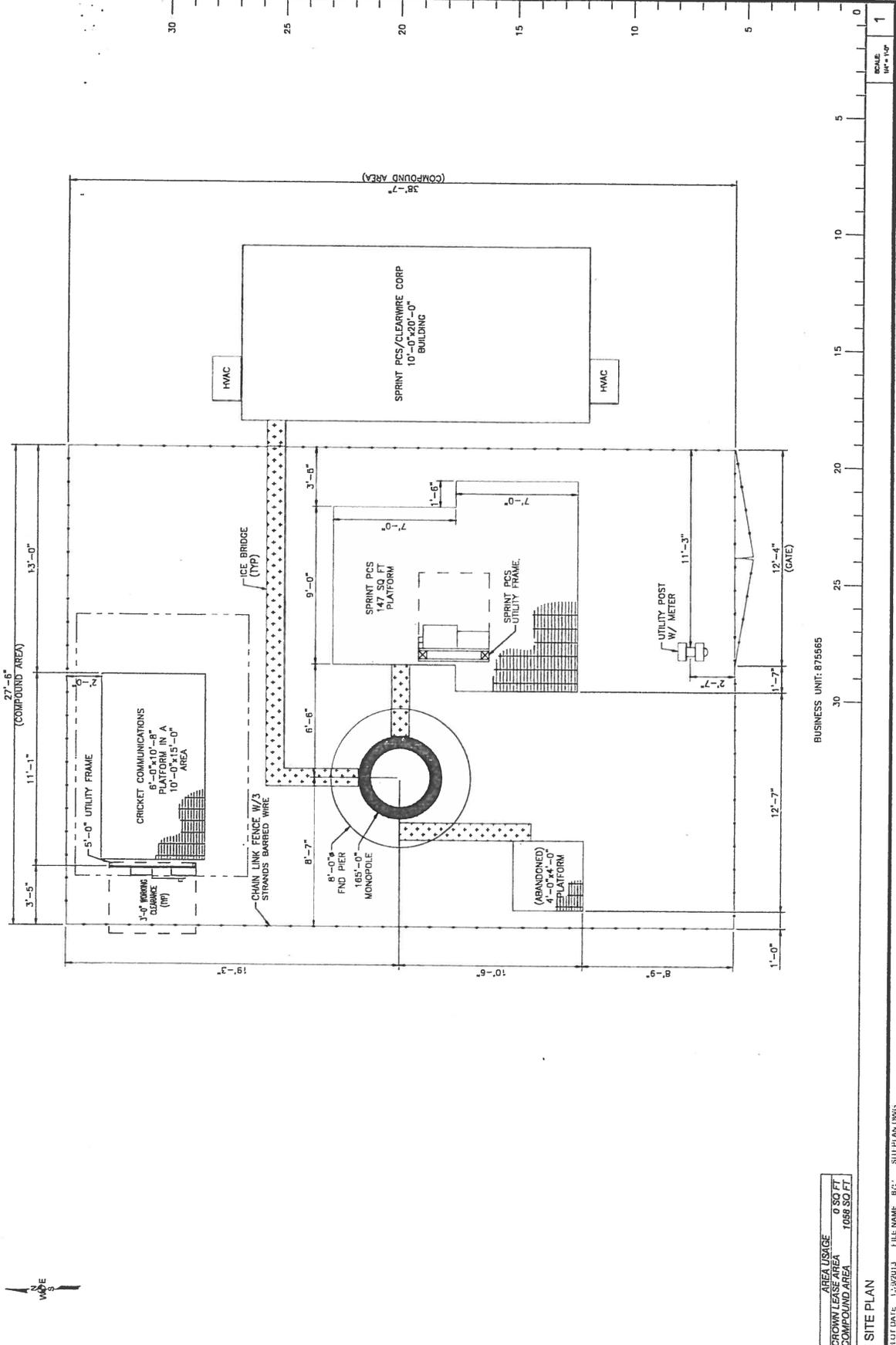
875565

SITE ADDRESS  
1620 WEST HIGHWAY  
MILWAUKEE, WI 53047  
USA

SHEET TITLE  
SITE PLAN

SHEET NUMBER  
1

A-2



BUSINESS UNIT: 875565

AREA USAGE  
0 SQ FT  
CROWN LEASE AREA  
1696 SQ FT  
COMPOUND AREA

SITE PLAN

FILE NAME: 875565\_SITPLAN.DWG



**SITE INFORMATION**

**PROPERTY OWNER:**  
CROWN STATE  
200 N. WASHINGTON  
CAMDEN, PA 17317

**BU / 87565**

**LATITUDE (NAD83):**  
42 11' 54.48" N  
42.198467

**LONGITUDE (NAD83):**  
86 07 52.05" W  
-86.014968

**COUNTY:**  
DAKE

**ZONING JURISDICTION:**  
THE VILLAGE OF LONG GROVE

**ZONING DISTRICT:**  
R2

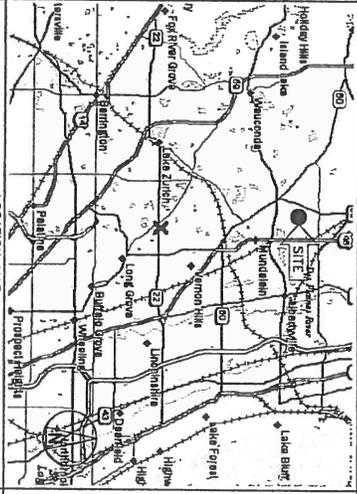
**OWNER COMPANY:**  
COMMONWEALTH EDISON

**AAV PROVIDER:**  
ATT

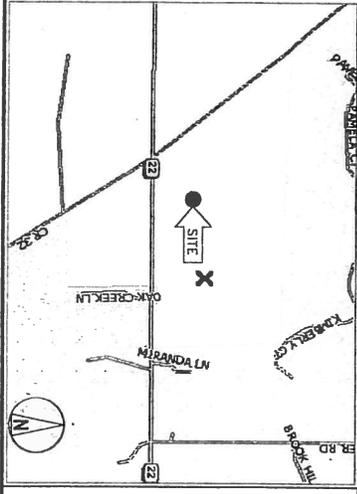
**SPRINT C.A.I.:**  
SEAN MCCORMAN  
sean.mccorman@sprint.com

**EQUIPMENT SUPPLIER:**  
SAMSUNG

**AREA MAP**



**LOCATION MAP**



**PROJECT DESCRIPTION**

- INSTAL (1) SAMSUNG G9000 CABINET IN EXISTING LOGS SPACE
- INSTAL (6) SAMSUNG BATTERIES
- INSTAL (2) PANEL ANTENNAS
- INSTAL (3) RUD'S TO TOWER
- INSTAL (27) COAX CABLES
- INSTAL (2) ACP CABLES
- INSTAL (1) HYBRID CABLES

**DRAWING INDEX**

SHEET NO:	TITLE SHEET & PROJECT DATA	REV	ENGINEER
T-1	TITLE SHEET & PROJECT DATA	0	MS
SP-1	OUTLINE SPECIFICATIONS	0	MS
SP-2	OUTLINE SPECIFICATIONS	0	MS
A-1	SITE PLAN	0	MS
A-2	TOWER ELEVATION & CABLE PLAN	0	MS
A-3	ANTENNA LAYOUT & MOUNTING DETAILS	0	MS
A-4	EQUIPMENT DETAILS	0	MS
A-5	EQUIPMENT DETAILS	0	MS
E-1	GROUNDING & ELECTRICAL PLAN	0	MS
E-2	GROUNDING DETAILS	0	MS
E-3	DC POWER & DISTRIBUTION	0	MS
E-4	A/C POWER DISTRIBUTION	0	MS
S-1	STRUCTURAL DETAILS	0	MS

**APPLICABLE CODES**

- 2009 INTERNATIONAL BUILDING CODE
  - 2009 INTERNATIONAL MECHANICAL CODE
  - ANSI/TIA-222 STRUCTURAL STANDARD
  - NFPA 70B - LIGHTNING PROTECTION CODE
  - NFPA 70A - NATIONAL ELECTRICAL CODE
  - 2011 NEC NATIONAL ELECTRICAL CODE
- IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL



**PROJECT:** 2.5 EQUIPMENT DEPLOYMENT

**SITE NAME:** BOHAC

**SITE CASCADE:** CH01XC407 - C

**SITE NUMBER:** 875565

**SITE ADDRESS:** 19520 WEST HIGHWAY 22  
LAKE ZURICH, IL 60047

**SITE TYPE:** EXISTING 165'-0" MONOPOLE

**2.5GHz EXISTING 165'-0" MONOPOLE**

PLANS PREPARED FOR:



PLANS PREPARED BY:

**KOS**  
CORPORATION  
1120 NORTH 9TH ST., SUITE 100  
OVERLAND PARK, KS 66209  
PH: 913-241-1100 FAX: 913-241-1100  
WWW.KOSCORP.COM

**CROWN**

20 N. WASHINGTON RD. SUITE 410  
SCARSDALE, NY 11753

ENGINEERING LICENSE:  
STATE OF NEW YORK  
REGISTERED PROFESSIONAL ENGINEER  
NO. 11111  
EXPIRES 11/30/15

REVISIONS:

NO.	DESCRIPTION	DATE	BY	APP.
23	ISSUED FOR PERMITS	12/2/15	MS	
22	REVISION FOR SPINUP COMMENTS	12/2/15	MS	
21	ISSUED FOR CONSTRUCTION	11/20/15	MS	

**SITE NAME:** BOHAC

**SITE CASCADE:** CH01XC407

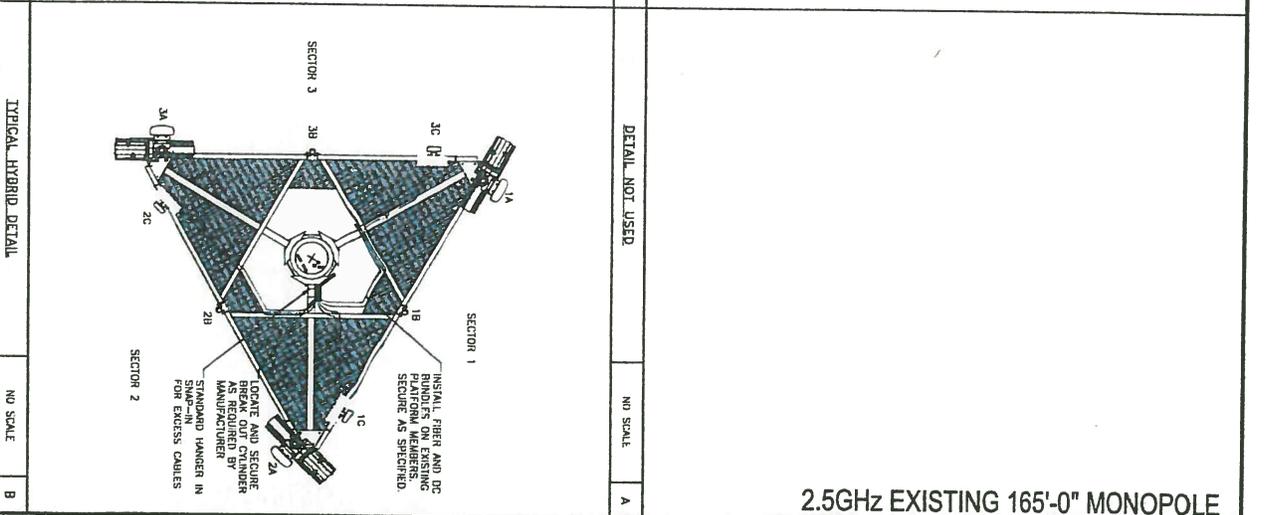
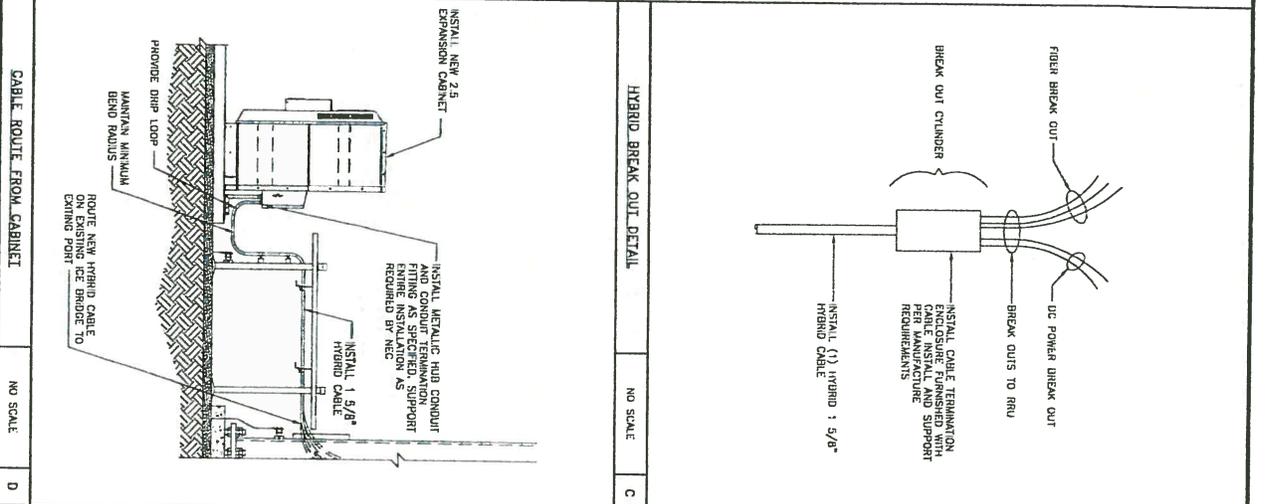
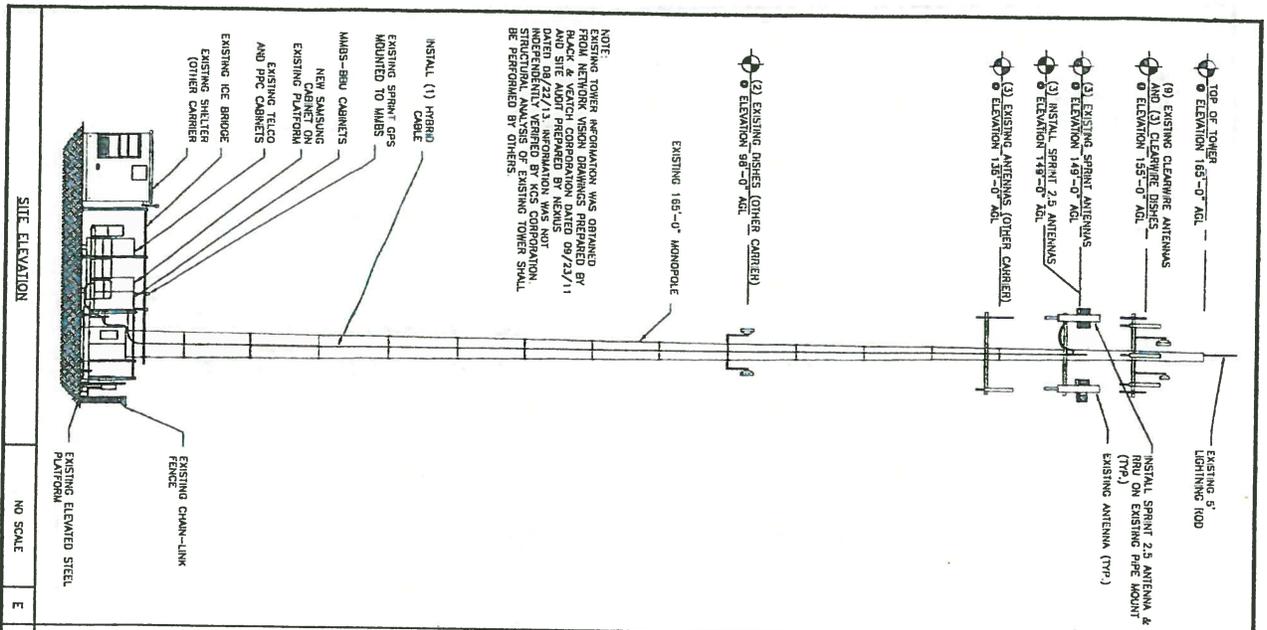
**SITE ADDRESS:** 19520 WEST HIGHWAY 22  
LAKE ZURICH, IL 60047

**SHEET NUMBER:** T-1









NO SCALE	E	NO SCALE	D	NO SCALE	B
SITE ELEVATION		CABLE ROUTE FROM CABINET		TYPICAL HYBRID DETAIL	
NO SCALE		NO SCALE		NO SCALE	
E		D		B	
NO SCALE		NO SCALE		NO SCALE	
E		D		B	

2.5GHz EXISTING 165'-0" MONOPOLE

PLANS PREPARED FOR:

6500 Sprint Parkway  
Overland Park, Kansas 66251

PLANS PREPARED BY:

CONSTRUCTION CONSULTING  
1110 BROADWAY, SUITE 1100  
CHICAGO, ILLINOIS 60601  
PHONE: 312.221.1100  
FAX: 312.221.1101  
WWW.CROWNCASTLE.COM

DATE: \_\_\_\_\_

SCALE: \_\_\_\_\_

MAA PARTNER:

20 N. LAKEWOOD F. RD. SUITE 440  
SCHWABENHUR, IL 60173

ENGINEERING LICENSE:

ANDREW R. STEIN  
LICENSED PROFESSIONAL ENGINEER  
NO. 00111111  
EXPIRES 11/30/15

DRAWING NOTICE:

SPONSORED BY: SPRINT  
DATE: 01/10/14  
EXPIRES: 11/30/15

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REVISION	DESCRIPTION	DATE	BY	REV
2.5	FOR REVIEW	12/20/13	AS	1
2.5	FOR REVIEW	12/20/13	AS	1
2.5	FOR REVIEW	12/20/13	AS	1
2.5	FOR REVIEW	12/20/13	AS	1

DATE: \_\_\_\_\_

SCALE: \_\_\_\_\_

BOHAC

CH03XC407

PROJECT ADDRESS:

19520 WEST HIGHWAY 22  
LAKE ZURICH, IL  
60047

SHEET DESCRIPTION:

TOWER ELEVATION  
& CABLE PLAN

SHEET NUMBER:

A-2

PLANS PREPARED FOR:  
**Sprint**  
 6500 Sprint Parkway  
 Overland Park, Kansas 66251

PLANS PREPARED BY:  
  
 1125 WESTERN BL. SUITE 100  
 OVERLAND PARK, KS 66202  
 PHONE: 913.241.4400  
 FAX: 913.241.4400  
 WWW.CROWNCASTLE.COM

ENGINEERING LICENSE:  
 20 N. LAWNWOOD, RD. SUITE 440  
 OVERLAND PARK, KS 66202

MAINTENANCE BY:  
**CROWN CASTLE**

REVISIONS:

NO.	DESCRIPTION	DATE	BY	REV
1	ISSUED FOR PERMITS	12/17/13	BS	A
2	ISSUED FOR CONSTRUCTION	07/29/14	BS	B
3	ISSUED FOR CONSTRUCTION	07/29/14	BS	C
4	ISSUED FOR CONSTRUCTION	07/29/14	BS	D

DATE: 11/20/13  
 DRAWING NO: 13-0118  
 SHEET NO: 1/3

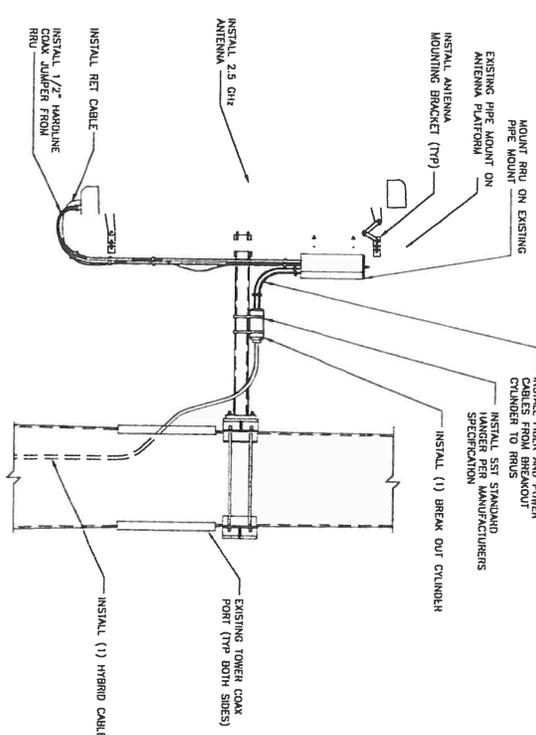
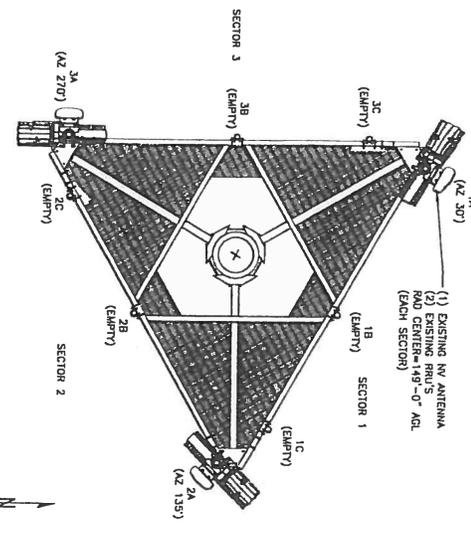
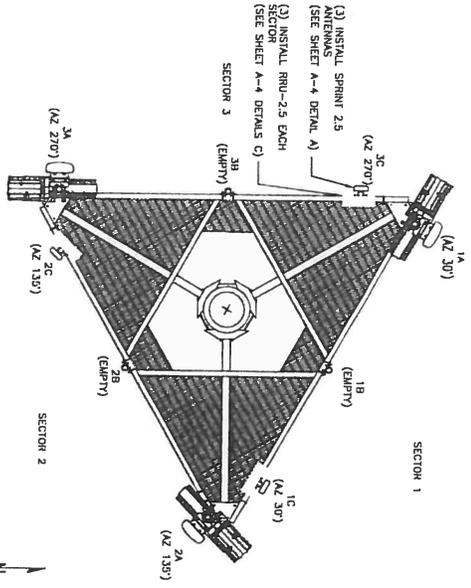
CLIENT NAME:  
**BOHAC**

SITE LOCATION:  
**CH03XC407**

SITE ADDRESS:  
 19520 WEST HIGHWAY 22  
 LAKE ZURBICH, IL.  
 60047

SHEET DESCRIPTION:  
**ANTENNA LAYOUT & MOUNTING DETAILS**

2.5GHz EXISTING 165'-0" MONOPOLE



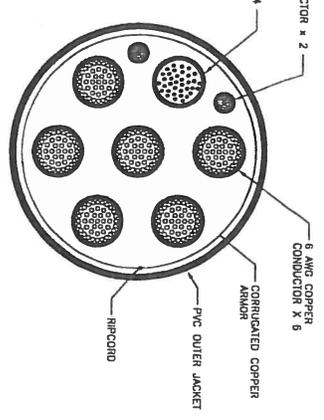
EXISTING ANTENNA & RRU LAYOUT @ 149'-0"  
 NO SCALE  
 C

FINAL ANTENNA LAYOUT @ 149'-0"  
 NO SCALE  
 A

ANTENNA, RRU & BREAK-OUT MOUNTING DETAILS  
 NO SCALE  
 B

DETAIL NOT USED  
 NO SCALE  
 D



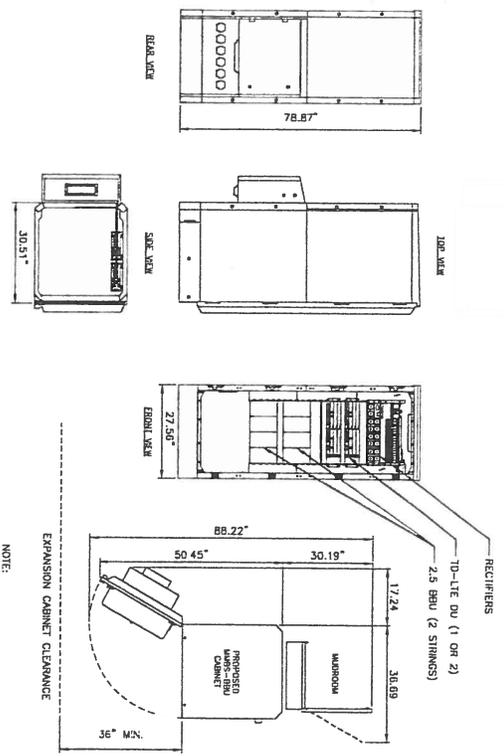


NOTE: CABLE CROSS-SECTION NOT DRAWN TO SCALE

CABLE TYPE	Number, size (cmg)	6/C 18 + 2/C 118
Voltage	600	
Outer Jacket	PVC	
Shielding	Corrugated Copper	
Max shield resistance (ohm/ft @ 20 °C)	0.0035	
Distn	N/A	
Ripcord	Kevlar Copper	
DC conductor material	Copper	
DC conductor size (cmg)	6	
Max DC resistance (ohm/1000ft)	0.411 @ 20 deg C	
Color Code	Black/Red	
Alarm Conductor Material	Copper	
Alarm conductor size (cmg)	18	
Max DC resistance (ohm/1000ft)	6.7	
Color Code	18B	
Fiber Cores	514	
Outer Diameter (in) - Nominal	1.24	
Weight (lb/ft)	1.05	
Minimum Bend Radius (in)	15	
Bend Moment (lb/ft)	180	
Tensile Strength (lb)	325	
Crush Resistance, FOTP-41 (V/in)	22	
Strength Member	No	
Operating Temperature Range (low)	-40 deg C	
Operating Temperature Range (high)	+80 deg C	
Fiber Type	Low Water Peak Single Mode ITU-T B.63 G.652.D, dB/7A2	
Fiber Standard Compliance	IEC 60793-2-50 Type B.1.3 & Type B.8 A&B	
Fiber Coating Diameter (um)	242 +/- 0.007mm 0.9 +/- 0.005mm	
Fiber Count	24	
Number of Fiber Subunits	1	
Fiber count each unit	24	
Fiber count jackets	FR jacket	
Max attenuation, 1310 nm (db/km)	Less than eqns 0.5	
Max attenuation, 1550 nm (db/km)	Less than eqns 0.5	

HYBRID CABLE X-SECTION AND DATA

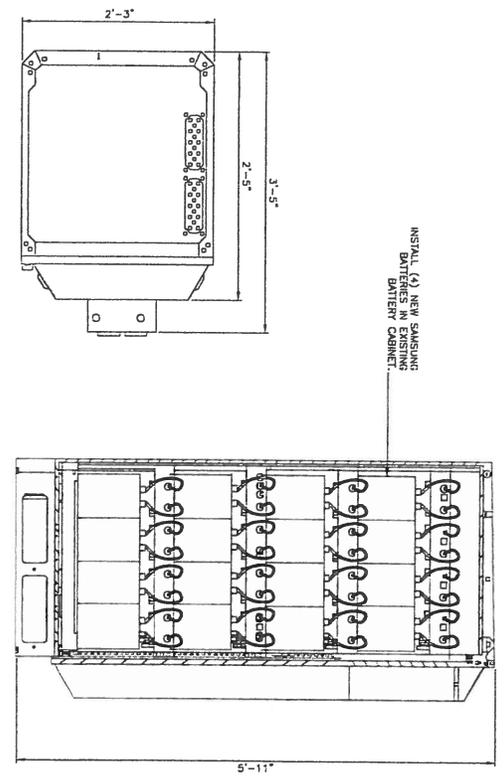
NO SCALE C



NOTE: INSTALL NEW SAMSUNG BATTERIES IN 2.5 GHz EXPANSION CABINET

EXPANSION CABINET WITH 2.5 EQUIPMENT

NO SCALE A



INSTALL (4) NEW SAMSUNG BATTERIES IN EXISTING BATTERY CABINET.

EXISTING BATTERY CABINET

NO SCALE B

2.5GHz EXISTING 165'-0" MONOPOLE

PLANS PREPARED FOR:  
**Sprint**  
 6580 Sprint Parkway  
 Overland Park, Kansas 66251

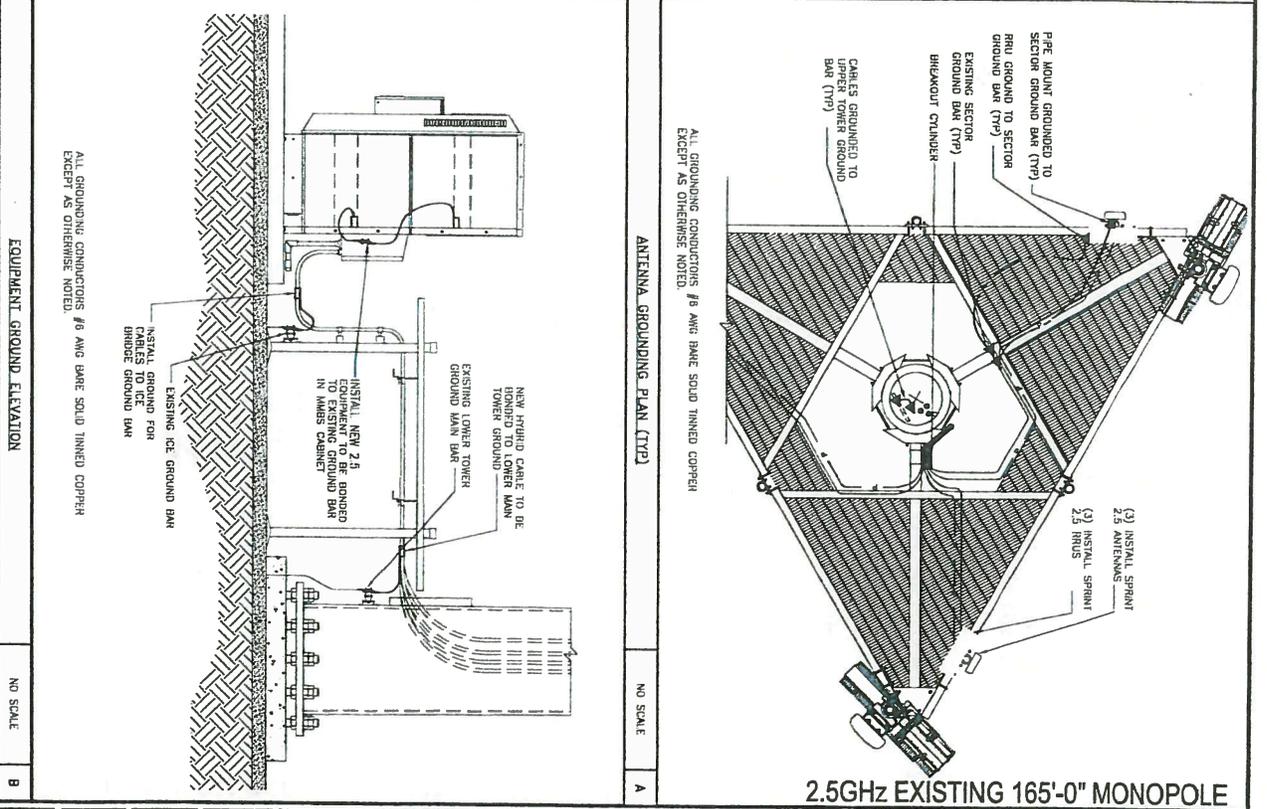
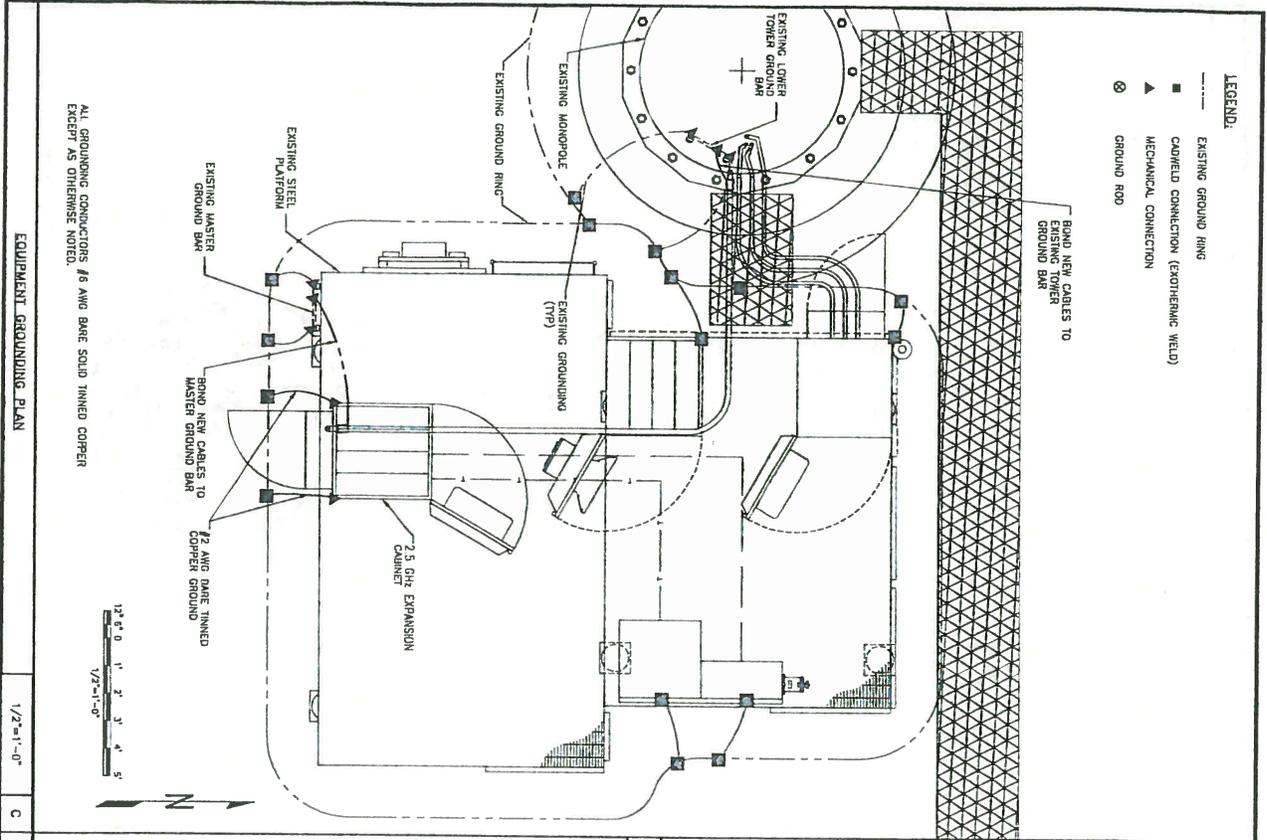
PLAN PREPARED BY:  
  
 1125 MIDWAY RD., SUITE 200, OVERLAND PARK, KS 66213  
 PHONE: 913-241-2200 FAX: 913-241-2222  
 WWW: WWW.CROWNCASTLE.COM

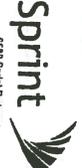
M.A. PARTNER:  
  
 20 N. WASHINGTON RD. SUITE 440  
 SHAWNEE, KS 66201

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 SPRINTING & ENGINEERING  
 DATE: 07/14 EXPRESS 1/25/07

REVISION	DESCRIPTION	DATE	BY	REV
1.1	FOR REVIEW	07/17/07	MS	A
1.2	REVISED FOR SPRINT COMMENTS	07/27/07	MS	B
1.3	ISSUED FOR CONSTRUCTION	07/27/07	MS	0

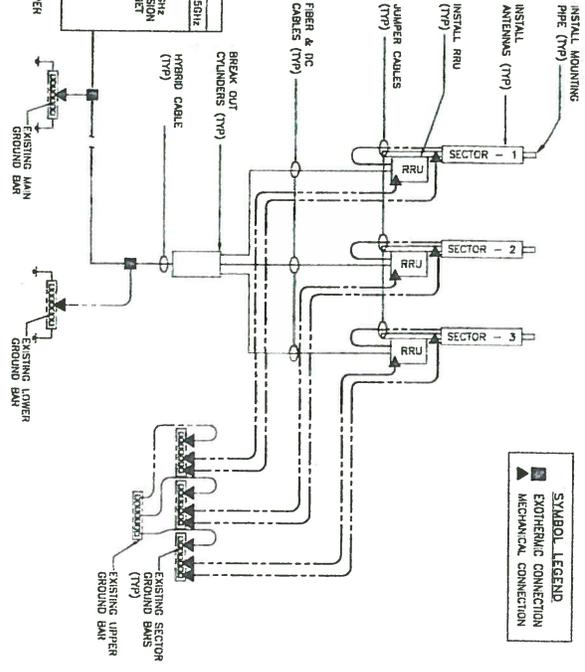
SITE NAME: BOHAC  
 SITE ADDRESS: CH03XC407  
 19520 WEST HIGHWAY 22  
 LAKE ZURICH, IL 60047  
 EQUIPMENT DESCRIPTION:  
 SHEET NUMBER: A-5



<p>PLANS PREPARED BY:</p>  <p>6800 Sprint Parkway Overland Park, Kansas 66151</p>	<p>PLANS PREPARED BY:</p>  <p>1121 W. Main Street, Suite 100 Overland Park, KS 66151 Phone: 913-752-3000, Fax: 913-752-3033</p>	<p>DATE: 11/20/15</p> <p>20 N. MAINWAY RD. SUITE 440 SCAMMOND, IL 60173</p>	<p>THESE DOCUMENTS ARE CONFIDENTIAL AND NOT BE REPRODUCED, MISREPRESENTED OR REDISTRIBUTED WITHOUT THE EXPRESS WRITTEN CONSENT OF SPRINT.</p>	<table border="1"> <thead> <tr> <th>REVISION</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> <th>REV</th> </tr> </thead> <tbody> <tr> <td>1.0</td> <td>ISSUED FOR PERMIT</td> <td>07/13/15</td> <td>MS</td> <td>A</td> </tr> <tr> <td>1.1</td> <td>ISSUED FOR CONSTRUCTION</td> <td>07/27/15</td> <td>MS</td> <td>B</td> </tr> <tr> <td>1.2</td> <td>ISSUED FOR CONSTRUCTION</td> <td>07/27/15</td> <td>MS</td> <td>0</td> </tr> </tbody> </table> <p>PROJECT NAME: BOHAC</p> <p>PROJECT NUMBER: CH03XC407</p> <p>SHEET DESCRIPTION: GROUNDING &amp; ELECTRICAL PLAN</p> <p>SHEET NUMBER: E-1</p>	REVISION	DESCRIPTION	DATE	BY	REV	1.0	ISSUED FOR PERMIT	07/13/15	MS	A	1.1	ISSUED FOR CONSTRUCTION	07/27/15	MS	B	1.2	ISSUED FOR CONSTRUCTION	07/27/15	MS	0
REVISION	DESCRIPTION	DATE	BY	REV																				
1.0	ISSUED FOR PERMIT	07/13/15	MS	A																				
1.1	ISSUED FOR CONSTRUCTION	07/27/15	MS	B																				
1.2	ISSUED FOR CONSTRUCTION	07/27/15	MS	0																				

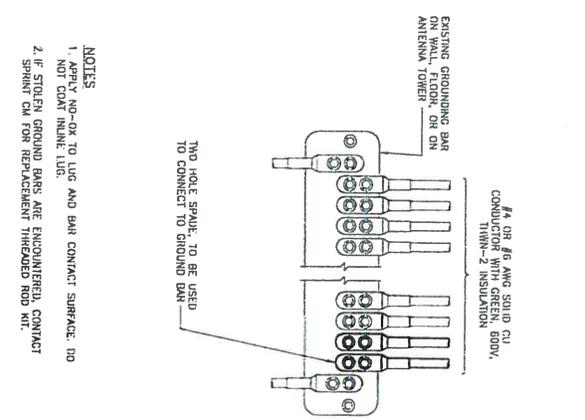
**NOTES**

1. CONNECTIONS TO EXISTING SYSTEMS SHALL BE MADE BY THE CORRECT PROCESS, ETC. ALL CABLE TO GROUND RODS, GROUND RODS, SPICES AND LIGHTING PROTECTION SYSTEMS AS INDICATED SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND PROCEDURES. GROUND CONDUCTOR SHALL HAVE A MINIMUM 24 BENDING RADIUS.
2. ALL CABLED CONNECTIONS ON GALVANIZED SURFACES SHALL BE CLEANED THOROUGHLY AND COLORED TO MATCH SURFACE WITH (ALUMINUM).
3. ALL ELECTRICAL & MECHANICAL GROUND CONNECTIONS SHALL HAVE AN OVERLAP AND BE APPLIED TO CONNECTION.
4. ALL GROUNDING CONDUCTORS #8 AWG BARE SOLID TINNED COPPER EXCEPT AS OTHERWISE NOTED.
5. ALL ABOVE GROUND WIRES SHALL BE GREEN JACKETED. ALL BE SOLID BARE.



**SYMBOL LEGEND**

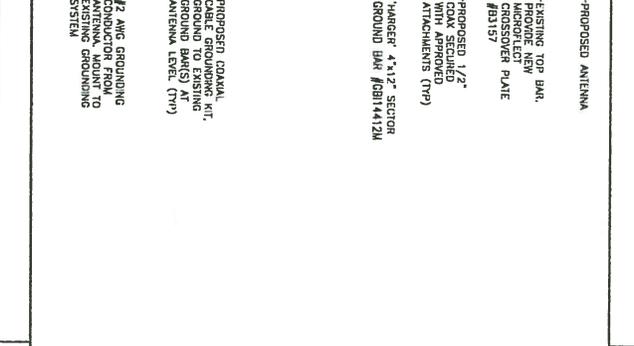
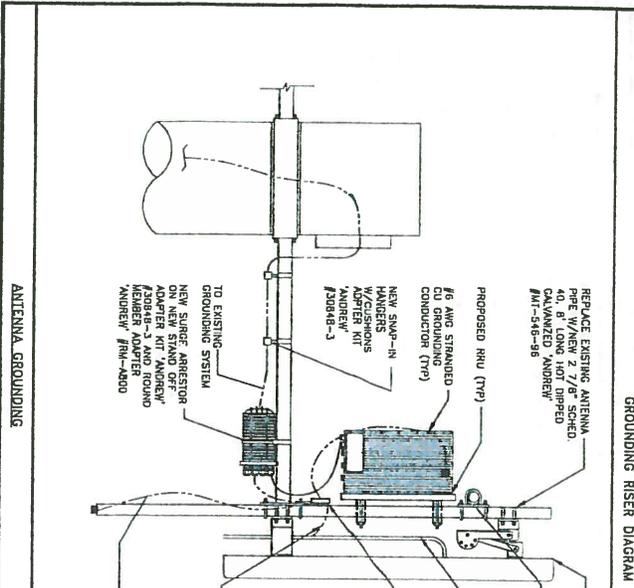
- EXOTHERMIC CONNECTION
- ▲ MECHANICAL CONNECTION



**NOTES**

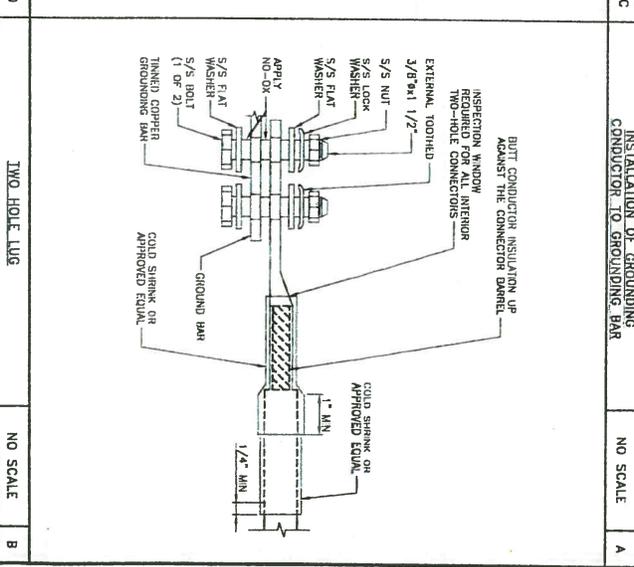
1. APPLY NO-OX TO UIC AND BAR CONTACT SURFACE. DO NOT COAT INSIDE. UIC.
2. IF STEEL GROUND BARS ARE ENCOUNTERED, CONTACT SPARK ON 60% REDUCED IN THROU ROD W/.

**2.5GHz EXISTING 165'-0" MONOPOLE**



**NOTES**

1. APPLY NO-OX TO UIC AND BAR CONTACT SURFACE. DO NOT COAT INSIDE. UIC.
2. IF STEEL GROUND BARS ARE ENCOUNTERED, CONTACT SPARK ON 60% REDUCED IN THROU ROD W/.



NO	SCALE	D	C	A
NO SCALE				

REVISIONS	DESCRIPTION	DATE	BY	CHK
22	ISSUED FOR PERMIT	02/20/15	MS	A
23	ISSUED FOR CONSTRUCTION	02/20/15	MS	B
24	ISSUED FOR CONSTRUCTION	02/20/15	MS	D

**BOHAC**

CH03XC407

19520 WEST TIDWAWAY 22  
LAKE ZURICH, IL  
60047

**E-2**

**Sprint**  
6580 Sprint Parkway  
Overland Park, Kansas 66251

PLANS PREPARED FOR:

120 PROJECT DRIVE, SUITE 200  
OVERLAND PARK, KS 66202  
TEL: 913-241-1200  
WWW.SPRINT.COM

DATE: 01/20/15

20 N. WASHINGTON RD. SUITE 410  
SPRINGFIELD, IL 62773

**CROWN CASTLE**









3110 Old McHenry Road 60047-9635
Phone: 847-634-9440 Fax: 847-634-9408
www.longgrove.net

RECEIVED
FEB 05 2014
VILLAGE OF LONG GROVE

PLAN COMMISSION ZONING BOARD OF APPEALS
GENERAL ZONING APPLICATION

1.0 General Information (See Subsection 5-11-8(E) of the Long Grove Zoning Code).

1.1 Applicant Name: Amanda Rok - Agent for Owner
Address: 11 Grandview Cir Suite 220
Telephone Number: 724-416-2315 E-mail Address: Amanda.Rok@CrownCastle.com
Fax number: 724-416-4661
Applicant's Interest in Property: -

1.2 Owner (if different from Applicant).

Name: Crown Castle
Address: 11 Grandview Cir Suite 220
Telephone Number: 724-416-2315 E-mail Address:
Fax number: 724-416-4661

1.3 Property.

Address of Property: 19520 West Highway 22 Lake Zurich, IL 60047
Legal Description: Please attach Parcel Index Number(s): 14-13-300006
Present Zoning Classification Size of Property (in acres) 165.5611
Has any zoning reclassification, variation, or special use permit/PUD been granted for the Property?
Yes: No: X

If yes, please identify the ordinance or other document granting such zoning relief:



Midwest Area  
Crown Castle  
11 Grandview Circle  
Canonsburg, PA 15317

Tel (724) 416-2315  
Fax (724) 416-4661  
www.crowncastle.com

February 4, 2014

Village of Long Grove  
Plan Commission  
3310 Old McHenry Road  
Long Grove, IL 60047

RE: Crown Castle Site Name: CH03XC407  
Site Location Address: 19520 West Highway 22 Lake Zurich, IL 60047  
Site #: BU 875565

Dear Department Representative:

Crown Castle is submitting for approval, an application for a Special Use Permit, for the tower site listed at the above referenced location.

As part of the application process, Crown Castle would like to assure your jurisdiction that based upon our records; the wireless communication facility is structurally sound and has not been modified in any material way since its initial construction. Furthermore, to the best of Crown Castle's knowledge, both the wireless communication facility and site compound have been properly and safely maintained. Crown Castle will continue to maintain this site in accordance with the terms of the Ground Lease Agreement, including all amendments, as well as within industry standards.

The application packet attached includes:

- (1) Application for Special Use Permit
- (1) Structural Analysis
- (1) Construction Drawing
- (2) Check: CK#4949 and 4950 for processing fee

If possible, please mail the Building Permit to:

Crown Castle  
Attn: Amanda Rok  
11 Grandview Circle, Suite 220  
Canonsburg, PA 15317

Please notify me of any fees and I will ensure they are promptly paid. Requests for additional information and/or documentation can be directed to me at 724-416-2315 or [Amanda.Rok@crowncastle.com](mailto:Amanda.Rok@crowncastle.com).

On behalf of Crown Castle, I would like to thank you for your assistance and I look forward to your prompt response.

Sincerely,

Amanda W. Rok  
Real Estate Specialist, Midwest Area

Describe the nature of the zoning relief granted: Adding equipment to cell tower.

Present use of Property:

Residential \_\_\_\_\_ Commercial X Office \_\_\_\_\_ Open Space \_\_\_\_\_ Vacant \_\_\_\_\_

Other (explain) \_\_\_\_\_

Present zoning and land use of surrounding properties within 250' of Property:

	Zoning Classification	Land Use
North:	<u>N/A</u>	_____
South:	<u>N/A</u>	_____
East:	<u>N/A</u>	_____
West:	<u>N/A</u>	_____

**1.4 Trustees Disclosure.**

Is title to the Property in a land trust? Yes \_\_\_\_\_ No \_\_\_\_\_

If yes, full disclosure of all trustees, beneficiaries and their legal and equitable interests is required. Attach a copy of all documents showing ownership of the Property and the Applicant's and/ or Owner's control of or interest in the Property.

**1.5 Requested Action (Check as many as are applicable).**

- \_\_\_\_\_ Appeal
- \_\_\_\_\_ Variation
- \_\_\_\_\_ Zoning Map Amendment (rezoning)
- \_\_\_\_\_ Preliminary PUD Plat
- \_\_\_\_\_ Code Interpretation
- X Special Use Permit (non-PUD)
- \_\_\_\_\_ Zoning Code Text Amendment
- \_\_\_\_\_ Final PUD Plat

**1.6 Supplemental Information (General):\*\***

Every Application filed shall, in addition to the data and information required above, provide the following general information when applicable to the use or development for which approval is being sought:

- (a) A description or graphic representation of any development or construction that will occur or any use that will be established or maintained if the requested relief is granted.
- (b) A table showing the following, as applicable:

- the total lot area of the lot, in acres and in square feet; and
  - the total existing and proposed lot area, expressed in acres, in square feet and as a percent of the total development area, devoted to: residential uses, business uses; office uses; college uses; institutional uses; open space; rights-of-way; streets; and off-street parking and loading areas; and
  - the existing and proposed number of dwelling units; and gross and net floor area devoted to residential uses, business uses, office uses, college uses, and institutional uses.
- (c) A table listing all bulk, space, and yard requirements; all parking requirements; and all loading requirements applicable to any proposed development or construction and showing the compliance of such proposed development or construction with each such requirement. When any lack of compliance is shown, the reason therefore shall be stated and an explanation of the village's authority, if any, to approve the Application despite such lack of compliance shall be set forth.
- (d) The certificate of a registered architect or civil engineer licensed by the State of Illinois, or of an owner-designer, that any proposed use, construction, or development complies with all provisions of this code and other village ordinances or complies with such provisions except in the manner and to the extent specifically set forth in said certificate.
- (e) A landscape development plan, including the location, size and species of plant materials.

**1.7 Supplemental Information (per specific request):**

\_\_\_\_\_ Appeals, Code Interpretations, and Variations: See 5-11-8(E)3, 4, & 5 of the Zoning Code and Form "A"

\_\_\_\_\_ Special Use Permit (non-PUD): See 5-11-8(E)7 of the Zoning Code and Form "B"

\_\_\_\_\_ Zoning Map Amendment (rezoning): See 5-11-8(E) 8 of the Zoning Code and Form "C"

\_\_\_\_\_ Zoning Code Text Amendment: See Form "D"

\_\_\_\_\_ Preliminary PUD Plat: See 5-11-18(D)(2) of the Zoning Code and Form "E"

\_\_\_\_\_ Final PUD Plat: See 5-11-18(D)(3) of the Zoning Code and Form "F"

\*\* The scope and detail of information shall be appropriate to the subject matter of the Application, with special emphasis on those matters likely to be affected or impacted by the approval being sought in the Application. Information required in the application shall be considered the minimum information required for filing an application. Additional information including but not limited to graphic depictions, environmental impacts, plans for sewer and water service and storm water management, photometric plans, traffic studies and effects on property values, among others, should also be considered and may be helpful in detailing the Application.

Special Data Requests. In addition to the data and information required pursuant to this Application, every Applicant/Owner shall submit such other additional data, information, or documentation as the

building superintendent or any board or commission before which the Application is pending may deem necessary or appropriate to a full and proper consideration and disposition of the particular Application.

**1.8 Consultants.**

Please provide the name, address, and telephone number of each professional or consultant advising Applicant with respect to this Application, including architects, contractors, engineers or attorneys:

Name: <u>Fort Line</u>	Name: <u>Soamesh M. Stethi</u>
Professional: <u>Contractor</u>	Professional: <u>Engineer</u>
Address: <u>1090 Humboldt Ave. Unit 2</u>	Address: <u>1125 Remington Rd. Schaumburg, IL 60197</u>
Telephone: <u>847-366-4296</u>	Telephone: <u>847-490-8200</u>
E-mail: _____	E-mail: _____

Name: _____	Name: _____
Professional: _____	Professional: _____
Address: _____	Address: _____
Telephone: _____	Telephone: _____
E-mail: _____	E-mail: _____

**1.9 Village Officials or Employees.**

Does any official or employee of the Village have an interest, either directly or indirectly, in the Property? Yes: \_\_\_\_\_ No: \_\_\_\_\_

If yes, please identify the name of such official or employee and the nature and extent of that interest. (Use a separate sheet of paper if necessary.)

**1.10 Successive Applications (5-11-9).**

Second Applications Without New Grounds Barred. Whenever any Application filed pursuant to this code has been finally denied on its merits, a second Application seeking essentially the same relief, whether or not in the same form or on the same theory, shall not be brought unless in the opinion of the officer, board, or commission before which it is brought there is substantial new evidence available or a mistake of law or fact significantly affected the prior denial.

New Grounds to Be Stated. Any such second Application shall include a detailed statement of the grounds justifying consideration of such Application.

Summary Denial With or Without Hearing. Any such second Application may be denied by the building superintendent summarily, and without hearing, on a finding that no grounds appear that warrant a new hearing. In any case where such Application is set for hearing, the owner shall be required to establish grounds warranting reconsideration of the merits of its Application prior to being allowed to offer any evidence on the merits. Unless such grounds are established, the Application may be summarily dismissed for such failure.

Exception. Whether or not new grounds are stated, any such second Application filed more than two years after the final denial of a prior Application shall be heard on the merits as though no prior Application had been filed. The Applicant or Owner shall, however, be required to place in the record all evidence available concerning changes of conditions or new facts that have developed since the denial of the first Application. In the absence of such evidence, it shall be presumed that no new facts exist to support the new petition that did not exist at the time of the denial of the first Application.

**2.0 Required Submittals (See Specific Supplemental Information Form for filing Fees).**

_____ Fully completed Application with applicable supplementary information	
_____ Non-refundable Filing Fee.	Amount: \$ <u>100.00</u>
_____ Planning Filing Fees.	Amount: \$ <u>1,000.00</u>
_____ Minimum Professional Fee/deposit Escrow.	Amount <u>\$5,000</u>

*Non-refundable*

**3.0 Certifications.** The Applicant and Owner certify that this Application is filed with the permission and consent of the Owner of the Property and that the person signing this Application is fully authorized to do so.

**3.1** The Applicant certifies that all information contained in this Application is true and correct to the best of Applicant's knowledge.

**3.2** The Applicant acknowledges that the Village may seek additional information relating to this Application and agrees to provide the Village with such information in a timely manner. Failure to provide such information may be grounds for denying an Application.

- 3.3 The Applicant and Owner agree to reimburse the Village for any and all costs relating to the processing of this Application, including any consultants' fees. By signing this Application, Applicant and Owner agree to be jointly and severally liable for such costs, and Owner further agrees to the filing and foreclosure of a lien against the Property for all such costs plus all expenses relating to collection, if such costs are not paid within 30 days after mailing of a demand for payment.
- 3.4 The Applicant agrees that the Village and its representatives have the right, and are hereby granted permission and a license, to enter upon the Property, and into any structures located there on, for purposes of conducting any inspections that may be necessary in connection with this Application.
- 3.5 **The Owner, Applicant, and/or designated representative is required to be present during the meeting.**

Crown Castle  
Name of Owner

\_\_\_\_\_  
Signature of Owner                      Date

Amanda PK - Agent for Owner  
Name of Applicant

Amanda PK                      2/4/14  
Signature of Applicant                      Date

VILLAGE OF LONG GROVE, ILLINOIS

NOTICE OF A PUBLIC HEARING FOR CONSIDERATION OF A SPECIAL USE PERMIT AND/OR ADDITIONAL RELIEF NECESSARY AND/OR APPROPRIATE UNDER THE ZONING CODE TO ALLOW THE CONTINUED OPERATION AND MAINTENANCE OF WIRELESS COMMUNICATIONS ANTENNA AND RELATED FACILITIES AND THE CO-LOCATION OF ADDITIONAL ANTENNAS ON THE EXISTING MONOPOLE TELECOMMUNICATIONS TOWER AT 4210 ILLINOIS ROUTE 22 AND ZONED UNDER THE R-1 ZONING DISTRICT CLASSIFICATION WITHIN THE VILLAGE OF LONG GROVE, ILLINOIS

PUBLIC NOTICE IS HEREBY GIVEN that on Tuesday, March 4, 2014 at 7:00 p.m., a public hearing will be held at the regular meeting of the Plan Commission & Zoning Board Appeals of the Village of Long Grove, Lake County, Illinois, at the Long Grove Village Hall 3110 RFD, Long Grove, Illinois 60047, (unless otherwise posted) in connection with a petition to allow the continued operation and maintenance of a wireless communications antenna and related facilities and any other relief necessary to allow co-location of additional antennas on the existing monopole telecommunications tower at 4210 Illinois Route 22 and within the R-1 Zoning District. No reclassification of the subject property is requested. The subject property is legally described as follows:

That part of the Southwest quarter of Section 13, Township 43 North, Range 10 East of the Third Principal Meridian, described as follows: commencing at the intersection of a line lying 132 feet West of a parallel to the East line of said Southwest Quarter with the South line of said Southwest Quarter; thence North 00 degrees 12 minutes 35 seconds West along said parallel line 478.50 feet; thence South 87 degrees 51 minutes and 48 seconds East, 24.93 feet to the point of beginning; thence North 02 degrees 08 minutes 12 seconds East, 10 feet; thence South 87 degrees, 51 minutes 48 seconds East, 30.00 feet; thence South 02 degrees 08 minutes 12 seconds West, 10.00 feet; thence North 87 degrees 51 minutes 48 seconds West 30.00 feet to the point of beginning, containing 300 square feet, all in Lake County, Illinois.

Commonly known as: 4210 Illinois Route 22 (previously 19520 W. Hwy 22) Long Grove, Illinois, 60047. PIN: 14-13-300-006

Persons attending the hearing shall have the opportunity to provide written and oral comments and questions concerning the proposal. The above information, together with the plans for the property, will be available for inspection at the Long Grove Village Hall, 3110 RFD, Long Grove, Illinois during regular business hours.

The Plan Commission & Zoning Board of Appeals reserves the rights to continue the hearing to a later date and time and place should that become necessary.

James M. Hogue Village Planner Village of Long Grove Published in Daily Herald Feb. 12, 2014 (4365035)

RECEIVED

FEB 18 2014

VILLAGE OF LONG GROVE

CERTIFICATE OF PUBLICATION

Paddock Publications, Inc.

Daily Herald

Corporation organized and existing under and by virtue of the laws of the State of Illinois, DOES HEREBY CERTIFY that it is the publisher of the DAILY HERALD. That said DAILY HERALD is a secular newspaper and has been circulated daily in the Village(s) of Algonquin, Antioch, Arlington Heights, Aurora, Barrington, Barrington Hills, Lake Barrington, North Barrington, South Barrington, Bartlett, Batavia, Buffalo Grove, Burlington, Campton Hills, Carpentersville, Cary, Deer Park, Des Plaines, South Elgin, East Dundee, Elburn, Elgin, Elk Grove Village, Fox Lake, Fox River Grove, Geneva, Gilberts, Grayslake, Green Oaks, Gurnee, Hainesville, Hampshire, Hanover Park, Hawthorn Woods, Hoffman Estates, Huntley, Inverness, Island Lake, Kildeer, Lake Villa, Lake in the Hills, Lake Zurich, Libertyville, Lincolnshire, Lindenhurst, Long Grove, Mt. Prospect, Mundelein, Palatine, Prospect Heights, Rolling Meadows, Round Lake, Round Lake Beach, Round Lake Heights, Round Lake park, Schaumburg, Sleepy Hollow, St. Charles, Streamwood, Tower Lakes, Vernon Hills, Volo, Wauconda, Wheeling, West Dundee, Wildwood, Sugar Grove, North Aurora

County(ies) of Cook, Kane, Lake, McHenry and State of Illinois, continuously for more than one year prior to the date of the first publication of the notice hereinafter referred to and is of general circulation throughout said Village(s), County(ies) and State.

I further certify that the DAILY HERALD is a newspaper as defined in "an Act to revise the law in relation to notices" as amended in 1992 Illinois Compiled Statutes, Chapter 7150, Act 5, Section 1 and 5. That a notice of which the annexed printed slip is a true copy, was published February 12, 2014 in said DAILY HERALD.

IN WITNESS WHEREOF, the undersigned, the said PADDOCK PUBLICATIONS, Inc., has caused this certificate to be signed by, this authorized agent, at Arlington Heights, Illinois.

PADDOCK PUBLICATIONS, INC. DAILY HERALD NEWSPAPERS

BY Daule Baltz Authorized Agent

Control # 4365035

