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06/17/2022 USPS

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Sent To: Al Diaz

Street, Apt. No.; or PO Box No.: 19 E. Chicago Avenue

City, State, ZIP+4: Hinsdale, IL 60521

PS Form 3800, August 2006 — See Reverse for Instructions

Electronic Copy Of Application

Submitted via USPS Certified Mail

Postmarked June 17th, 2022

Crown Castle
8020 Katy Freeway
Houston, TX 77024

6/17/2022

Village of Hinsdale
19 E. Chicago Avenue, Hinsdale, Illinois 60521
Attn: Al Diaz
(630) 789-7029

RE: Application for Small Wireless Facility on Wood Utility Pole in the Village of Hinsdale

Dear Mr. Diaz,

Crown Castle Fiber LLC ("Crown Castle") submits the enclosed consolidated application for one (1) small wireless facility in the Village of Hinsdale right-of-way, in accordance with the Illinois Small Wireless Facilities Deployment Act[1] and with federal law.[2]

The IL Small Cell Law limits the authority of Illinois local governments (other than Chicago) over small wireless facilities. The IL Small Cell Law provides that "[e]xcept as provided in this Section, an authority may not prohibit, regulate, or charge for the collocation of small wireless facilities." 50 ILCS 840/15(b). Thus, local governments are prohibited from imposing any requirement on small wireless facilities other than those explicitly authorized in the IL Small Cell Law.

Section 50 ILCS 840/15 provides that an applicant cannot be required to provide more information than the authority requires of a communications service provider that is not a wireless provider, with the exception of seven (7) specific items that a local government can require for a small wireless facility application to collocate small wireless facilities on a utility pole or wireless support structure. Those seven (7) permissible items are:

> (A) site specific structural integrity and, for an authority utility pole, make-ready analysis prepared by a structural engineer, as that term is defined in Section 4 of the Structural Engineering Practice Act of 1989;
>
> (B) the location where each proposed small wireless facility or utility pole would be installed and photographs of the location and its immediate surroundings depicting the utility poles or structures on which each proposed small wireless facility would be mounted or location where utility poles or structures would be installed;
>
> (C) specifications and drawings prepared by a structural engineer, as that term is defined in Section 4 of the Structural Engineering Practice Act of 1989, for each proposed small wireless facility covered by the application as it is proposed to be installed;
>
> (D) the equipment type and model numbers for the antennas and all other wireless equipment associated with the small wireless facility;

[1] Enrolled as Public Act 100-0585, 50 ILCS 835/1(2018) was signed into law by Gov. Rauner on April 12, 2018, and took effect on June 1, 2018.
[2] 47 U.S.C. §253(a).

(E) a proposed schedule for the installation and completion of each small wireless facility covered by the application, if approved;

(F) certification that the collocation complies with paragraph (6) to the best of the applicant's knowledge; and

(G) the wireless provider's certification from a radio engineer that it operates the small wireless facility within all applicable FCC standards.

Section 13-8-2 of the Hinsdale Code of Ordinances states "In the event that applicable Federal or State laws or regulations conflict with the requirements of this chapter, a wireless provider shall comply with the requirements of this chapter to the maximum extent possible without violating such Federal or State laws or regulations. (Ord. O2018-38, 9-4-2018)."

Application Requirements

Chapter 8 of the Hinsdale Code of Ordinances, Section 13-8-5(A) & (B), sets forth the following items to be included and/or actions to be taken when an applicant submits an application for the installation of a small wireless facility in the public right-of-way; Crown Castle's response to each requirement is as follows:

1. **Site specific structural integrity and, for an authority utility pole, make-ready analysis prepared by a structural engineer, as that term is defined in Section 4 of the Structural Engineering Practice Act of 1989, *that includes addressing the acceptability of the site for factors such as pole loading from existing utility equipment and conductors as well as the small wireless facility, and that specifically includes evaluations pursuant to American National Standards Institute (ANSI) standards relating to heavy loads and wind*;**

   Submitted, with the acknowledgment that the italicized portion of the requirement exceeds the authority granted to the Village by the IL Small Cell Law.

2. **The location where each proposed small wireless facility or utility pole would be installed and photographs of the location and its immediate surroundings depicting the utility poles or structures on which each proposed small wireless facility would be mounted or location where utility poles or structures would be installed. *The photographs shall include a digital photo simulation of the proposed location providing "before and after" views demonstrating the true visual impact of the proposed small wireless facilities on the surrounding environment*;**

   Submitted, with the acknowledgment that the italicized portion of the requirement exceeds the authority granted to the Village by the IL Small Cell Law.

3. **Specifications and drawings prepared by a structural engineer, as that term is defined in Section 4 of the Structural Engineering Practice Act of 1989, for each proposed small wireless facility covered by the application as it is proposed to be installed;**

   Submitted.

4. **The equipment type and model numbers for the antennas and all other wireless equipment associated with the small wireless facility;**

   Submitted.

5. **To the extent commercially available, technologically compatible with the local network system, and already used in its national or regional wireless network system, the wireless provider is required to install small wireless facilities with antenna and other equipment that have the smallest visual profile;**

   The requirement to use the smallest available antenna and equipment is dictating technology choices in violation of federal law; therefore Crown Castle is not required to meet this requirement. *See New York SMSA L.P. v. Town of Clarkstown*, 612 F.3d 97 (2d Cir. 2010) (local governments cannot dictate wireless technology choices).

6. **A proposed schedule for the installation and completion of each small wireless facility covered by the application, if approved;**

   Submitted.

7. **Certification that, to the best of the applicant's knowledge, the collocation complies with the written design standards established by the Village, and with the various other requirements set forth in [Chapter 8 of the Hinsdale Code of Ordinances];**

   Submitted.

8. **Copies of all licenses, permits and approvals required by or from the Village (i.e. zoning approval, where required), other agencies and units of government with jurisdiction over the design, construction, location and operation of said small wireless facility. The applicant shall maintain such licenses, permits and approvals in full force and effect and provide evidence of renewal or extension thereof when granted;**

   Not submitted; this request exceeds the authority granted to the Village by the IL Small Cell Law.

9. **In the event the small wireless facility is proposed to be attached to an existing utility pole or wireless support structure owned by an entity other than the Village, legally competent evidence of the consent of the owner of such pole or wireless support structure to the proposed collocation.**

   Not submitted; this request exceeds the authority granted to the Village by the IL Small Cell Law.

10. **Information on whether a pre-application review was conducted by or with Village staff. It is recommended that applicants arrange a review of the proposed location and design of small wireless facilities and new wireless support structures with the Village's director of public services or his or her designee and other applicable staff prior to application. Such review does not constitute approval, but is instead designed to promote administrative efficiency by identifying existing utility conflicts, consideration of possible alternative locations, and other issues that might be readily identified and/or resolved by communication between the applicant and Village staff.**

    Not submitted; this request exceeds the authority granted to the Village by the IL Small Cell Law.

11. **Certification from a radio engineer that the small wireless facility will operate within all applicable FCC standards, *including, but not limited to radio frequency emissions, as well as technical data such as the frequencies in use, power output levels and antenna specifications, reasonably necessary to evaluate compliance with maximum permissible exposure levels set by the FCC, as well as a monitoring plan for the applicant's facility capable of tracking and recording the daily***

amounts or levels of radio frequency emissions produced by the equipment, in order to verify on an ongoing basis that the small wireless facility will not exceed applicable FCC radio frequency emissions. In addition, a baseline test of the radio frequency emissions of a small wireless facility shall be performed by the wireless provider, at its sole cost and expense, at the time of initial activation, and the results provided to the Village's director of public services or his or her designee. In addition, when a radio transceiver or antennas are replaced or added to an existing small wireless facility, the wireless provider shall provide certification from a radio engineer that the continuing operation of the small wireless facility complies with all applicable FCC standards, including, but not limited to, radio frequency emissions.

Non-italicized portion submitted, with the acknowledgment that the italicized portion of the requirement exceeds the authority granted to the Village by the IL Small Cell Law.

12. **Proof of all applicable licenses or other approvals required by the FCC, including but not limited to information showing the small wireless facility has received any required review (e.g., environmental assessment and review) by the FCC pursuant to the National Environmental Policy Act ("NEPA"), or is exempt from such requirements. If the applicant claims the small wireless facility is exempt, it must state the basis for the exemption and provide proof, including supporting documents that establish that the facility meets such exemption.**

    Not submitted; this request exceeds the authority granted to the Village by the IL Small Cell Law.

13. **A written report that analyzes acoustic levels for the small wireless facility and all associated equipment including, but not limited to, temporary or permanent backup generators, in order to demonstrate compliance with applicable Village noise regulations, including, but not limited to, Section 9-12-2 of the Village Code. The acoustic analysis must be prepared and certified by an engineer and include an analysis of the manufacturers' specifications for all noise-emitting equipment, and a depiction of the proposed equipment relative to all adjacent property lines. In lieu of a written report, the applicant may submit evidence from the equipment manufacturer that the ambient noise emitted from all the proposed equipment, including equipment underground, will not, both individually and cumulatively, exceed the applicable limits.**

    Not submitted; this request exceeds the authority granted to the Village by the IL Small Cell Law.

14. **A written description and/or map identifying the geographic service area for the small wireless facility.**

    Not submitted; this request exceeds the authority granted to the Village by the IL Small Cell Law.

15. **For work in the public right-of-way, evidence of posting of the security fund as required in Section 7-1G-10 of this code.**

    Submitted.

16. **Where installation is proposed in a right-of-way, as defined in this chapter, that consists of an "easement for compatible use", a certified copy of the original easement documents and other supporting documentation demonstrating that the applicant has the right to install, mount, maintain and remove a small wireless facility and associated equipment in or on the easement for the length of the permit. If the applicant is claiming access to the easement as an assignee or successor in interest, the applicant shall, in addition, provide documents demonstrating that its assigned or**

successor rights in the easement are sufficient to allow it to install, mount, maintain and remove the small wireless facility and associated equipment for the length of the permit.

Not submitted; this request exceeds the authority granted to the Village by the IL Small Cell Law.

17. **A master plan which identifies the location of the proposed small wireless facility in relation to all existing and potential locations in the Village that are reasonably anticipated for construction within two (2) years of submittal of the application.**

    Not submitted; this request exceeds the authority granted to the Village by the IL Small Cell Law.

18. **The name of the applicant, the name of the wireless service provider on whose behalf the proposed installation is being performed, and any additional parties proposed to be involved in the installation.**

    Not submitted; this request exceeds the authority granted to the Village by the IL Small Cell Law.

19. **A sample of the proposed notice to be mailed pursuant to subsection B, below, and a list of intended recipients (including content and mailing envelope).**

    Not submitted; this request exceeds the authority granted to the Village by the IL Small Cell Law.

(B) Notice: Within three (3) business days of submission of an application containing all information required by this chapter and any associated regulations, an applicant, at its sole cost and expense, shall provide written notice, by first class United States mail, to the owners and occupants of all real property at the addresses on file with the United States Postal office, and the residential manager for any multi-family dwelling unit that includes ten (10) or more units at the manager's business mailing address, any part of which is located within a two hundred and fifty (250) foot radius of the location of the applicant's proposed small wireless facility. Such notice shall be in a form provided by the Village, as may be revised from time to time, and shall be clearly marked as a notification of proposed small wireless facility installation, identify the applicant and wireless provider(s) who will utilize the facility, and include a plain language description of the proposed facility, the exact location of the proposed facility, photo simulations or illustrations depicting the proposed wireless facility, and the address where comments may be sent to the wireless provider within fifteen (15) calendar days of the date of the notice. In addition, the applicant shall post a sign measuring at least nine (9) inches by twelve (12) inches in a conspicuous location at each proposed location of a small wireless facility installation. Such signs shall be in a form provided by the Village, and shall include an image of the proposed small wireless facility. The applicant shall supplement its application with proof of mailing of required notices no less than two (2) calendar days after mailing of the notices, and an affidavit attesting to the posting of the required signs no less than two (2) days after posting. The applicant shall supplement its application with copies of all email, letter and other written communications received in response to the mailed notice within seventeen (17) days of mailing;

This request exceeds the authority granted to the Village by the IL Small Cell Law.

The Application form provided by the Village of Hinsdale also includes the following requirement:

Sufficiently detailed documentation establishing that the proposed installation will comply with all ordinances or general application pertaining to installations in the right-of-way, right-of-way usage and the National Electric Code.

Not submitted; this request exceeds the authority granted to the Village by the IL Small Cell Law and is discriminatory because it is not required of other occupiers of the right-of-way.

Design Standards

With respect to design standards, the IL Small Cell Law states the following:

> An authority may require that... the wireless provider comply with written design standards that are generally applicable for decorative utility poles, or **reasonable stealth, concealment, and aesthetic requirements that are identified by the authority in an ordinance, written policy adopted by the governing board of the authority, a comprehensive plan, or other written design plan that applies to other occupiers of the rights-of-way...**[3]

The Village sets forth the design, aesthetic, stealth, and concealment standards that apply to the placement of small wireless facilities within the Village (except where otherwise limited by State or federal law) in the General Guidelines and Small Wireless Facility Design, Aesthetic, Stealth and Concealment Standards (updated January 21, 2022) (the "Design Standards"). Crown Castle has adhered to these to the maximum extent possible, subject to state and federal law, and technical feasibility. Crown Castle draws particular attention to the following Design Standards:

- **Top mounted antennas and their enclosures shall be mounted directly above the utility pole... and shall not extend beyond the diameter of the utility pole... at the level of the antenna attachment... There must be a smooth transition between the utility pole and the antenna and enclosure.**

  It is technically infeasible for the antenna to not extend beyond the diameter of the utility pole and to have a smooth transition between the utility pole and the antenna and enclosure. Crown Castle is utilizing three Ericsson 6705 radios with integrated antennas for this small cell. These radios must be installed in a tripod array in order to function properly. Due to the presence of ComEd primary power supply lines which are attached to the top of the pole, Crown Castle's antennas must be installed on an extension arm. Finally, any tapering "skirt" or other aesthetic device, installed for the purpose of creating a smooth transition, would endanger the primary power lines that are attached to the top of the pole.

  Due to these factors, it is not physically possible to install the antennas directly above the utility pole, nor for their diameter to not extend beyond the diameter of the utility pole, nor to create a smooth transition between the utility pole and the antennas.

- **Side-mounted small wireless facility antennas within a shroud enclosure and side-mounted small wireless facility equipment enclosures shall be, if possible, flush mounted to the utility pole or wireless support structure at the level of the attachment.** ***If not flush mounted, metal flaps or "wings" shall extend from the enclosure to the utility pole or wireless support structure to conceal any gap between the small wireless facility and the utility pole or wireless support structure.*** **The design of the flaps shall be integrated with the design of the small wireless facility, and shall be the same color.**

  It is technically infeasible to install metal flaps or wings extending from the enclosure to the utility pole to conceal any gap between the small wireless facility and the utility pole. ComEd states in their standards for Communications Antenna Operated by Others that "all third party equipment on poles shall be constructed

[3] 50 ILCS 840/15(d)(6)(H).

and maintained to provide an unobstructed vertical climbing space... reference NESC Rule 236." Metal flaps or wings extending from the enclosure to the utility pole to conceal any gap between the small wireless facility and the utility pole will interfere with the vertical climbing space required by ComEd.

- **Small wireless facility equipment shall not be mounted within two hundred (200) feet of any residence.**

  This Design Standard amounts to a prohibition of service in all residential areas of the Village and is therefore a violation of federal law.[4] It is also discriminatory in violation of both state[5] and federal law[6] because it is not applied to other occupiers of the right-of-way or providers of functionally equivalent services.

- **The wireless provider is required to install wireless facilities with antenna and other equipment that has the smallest visual profile to the extent commercially available, technologically compatible with the local network system and already used in its national or regional wireless network system.**

  The requirement to use the smallest available antenna and equipment is dictating technology choices in violation of federal law. See New York SMSA L.P. v. Town of Clarkstown, 612 F.3d 97 (2d Cir. 2010) (local governments cannot dictate wireless technology choices).

- **Any Design Standards that do not apply to other occupiers of the right-of-way are preempted by the IL Small Cell Law.**

Application Enclosures

Included in this application are the following documents:

- A Village of Hinsdale Small Wireless Facility Application Form
- A complete drawing plan of the proposal, which includes coordinates of the location, photos of the proposed wireless facility on the existing pole, and equipment types and model numbers
- A Structural Analysis, which demonstrates that the proposed replacement pole is capable of handling the proposed small cell equipment
- A Certificate of Insurance
- A Cover Letter, List of Facilities, Statement of Compliance.

[4] 47 U.S.C. §253(a), 47 U.S.C. §332(c)(7)(i)(II).
[5] 50 ILCS 840/15(d)(6)(H).
[6] 47 U.S.C. §332(c)(7)(i)(I).

Below you will also find a summary of information about the proposed installation, a proposed construction start date, and a statement of compliance. Crown Castle understands that the Village of Hinsdale has 90 days to review this application, and therefore the proposed construction start date can be moved if necessary.

If, during your review, you require any additional information, please feel free to contact me at (630) 480-5227 Thank you very much for your time and attention.

Sincerely,

Samuel Franklin
Supervisor, Network Permitting and Utilities
T: (630) 480-5227
westernsuburbs@crowncastle.com

Electronic Copy Of Application

Submitted via USPS Certified Mail

Postmarked June 17th, 2022

List of Wireless Facilities

(includes proposed schedule for installation)

(next page)

Small Cell Nickname / SCU	Latitude	Longitude	Pole Owner	Current Pole Height	Replacement Pole Height (feet)	Extension Arm Length (feet)	Equipment Volume (cubic feet)	Construction Start Date (tentative)	Construction Finish Date (tentative)
HINSDALEA_52 /	N041°47'20.0"	W087°56'17.9"	Com Ed	25'-7"	n/a	4'10"	3.75	9/10/2023	12/10/2022

Electronic Copy Of Application

Submitted via USPS Certified Mail

Postmarked June 17th, 2022

Application Forms

SMALL WIRELESS FACILITIES PERMIT APPLICATION

&

SWF Supplemental Application

THIS CHECK PRINTED ON DOCUCHECK GHOST PAPER AND HAS A GRAPHIC WATERMARK ON REVERSE SIDE

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CANONSBURG PA 15317
724-416-2000

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HINSDALE IL 60521

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VP and Controller

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[redacted]

Village of Hinsdale
Community Development Department
19 E. Chicago Ave., Hinsdale IL. 60521

SMALL WIRELESS FACILITIES PERMIT APPLICATION
Separate Application Required for each Antenna

APPLICANT INFORMATION

Applicant Name:	Date of Application:
Crown Castle Fiber LLC	6/17/2022

Applicant is a: ☒ Wireless Provider ☐ Representative ☐ Other (please specify):

WIRELESS PROVIDER INFORMATION

Wireless Provider Name: Crown Castle Fiber LLC

Wireless Provider Address: 8020 Katy Fwy

City:	State:	ZIP Code:
Houston	TX	77024

Phone:	Email:
630-480-5227	westernsuburbs@crowncastle.com

CONTACT PERSON FOR THIS PROJECT

Contact Person Name: Sam Franklin

Contact Person Address: 8020 Katy Fwy

City:	State:	ZIP Code:
Houston	TX	77024

Phone:	Email:
630-480-5227	westernsuburbs@crowncastle.com

PROPOSED SITE LOCATION

Property Address: SEC 14, T38N-R11E; Wood Utility pole approximately 140' east of the intersection of 55th St & S Monroe St.

Closest Intersection (Distance and Direction from):	
140' east of the intersection of 55th St & S Monroe St.	Right of Way ☒
	Private Property ☐
Zoning District:	PIN (if not right-of-way): n/a

EXISTING UTILITY POLE/WIRELESS SUPPORT STRUCTURE INFORMATION

Does the Project Involve a New Pole? Yes ☐ No ☒

Pole/Structure ID Number:	Height of Pole/Wireless Support Structure (feet):	Pole Color:	Pole Type: ☐
439222	25'-7"	Brown	Wood Utility

Existing Attachment(s) on Utility Pole/Wireless Support Structure? (*e.g.*, banners, light fixtures) Yes ☒ No ☐
If yes, please specify: Speed Limit Sign and End of School Zone Sign

Village of Hinsdale
Community Development Department
19 E. Chicago Ave., Hinsdale IL. 60521

Owner of Pole/Wireless Support Structure: ComEd		
Name of Pole/Wireless Support Structure Representative: David Hunt		
Address: 1319 S 1st Ave		
City: Maywood	State: IL	ZIP Code: 605153
Office Phone: 708.410.5334	Cell Phone:	E-mail: David.Hunt@comed.com
NOTE: If the proposed Small Wireless Facility is to be attached to an existing pole owned by an entity other than the Village, the Applicant/Wireless Provider must, with the application, provide legally competent evidence of the consent of the Owner of the Pole to the proposed collocation. Permission Received: Yes ☐ No ☐		

Village of Hinsdale
Community Development Department
19 E. Chicago Ave., Hinsdale IL. 60521

PROPERTY OWNER INFORMATION (IF PROPERTY NOT VILLAGE-OWNED RIGHT-OF-WAY)		
Property Owner Name:		
Property Owner Address:		
City:	State:	ZIP Code:
Phone:	Email:	
NOTE: If the Small Wireless Facility is to be attached to an existing or new pole or wireless support structure located on property that is not Village-owned right-of-way, the Applicant/Wireless Provider must provide legally competent evidence of the consent of the Private Property Owner to the proposed collocation. Permission Received: Yes ☐ No ☐		
CONTRACTOR INFORMATION		
Name of Contractor: TBD	Type of Contractor: General Contractor	
1.		
2.		
3.		
All contractors performing work in the Village must be [licensed/registered] by the Village prior to the issuance of any permit. Please provide appropriate proof of contractor licensing.		
OTHER APPROVALS		
If any of the Projects are situated within rights-of-way of the Illinois Department of Transportation or of the DuPage/Cook County Highway Department, then additional permits from those entities must be obtained and provided as part of this application before a permit may issue.		

Village of Hinsdale
Community Development Department
19 E. Chicago Ave., Hinsdale IL. 60521

APPLICATION CHECKLISTS AND REQUIREMENTS

Each Application must be accompanied by the following to be deemed complete:

1. Site specific structural integrity and, for a Village utility pole, make-ready analysis prepared by a structural engineer, as that term is defined in Section 4 of the Structural Engineering Practice Act of 1989;

2. The location where each proposed small wireless facility, utility pole or wireless support structure would be installed and digital photographs of the location and its immediate surroundings depicting the utility poles or structures on which each proposed small wireless facility would be mounted or location where utility poles or structures would be installed. The photographs shall include a digital photo simulation of the proposed location providing "before and after" views, demonstrating the true visual impact of the proposed wireless facilities on the surrounding environment;

3. Specifications and drawings prepared by a structural engineer, as that term is defined in Section 4 of the Structural Engineering Practice Act of 1989, for each proposed small wireless facility covered by the application as it is proposed to be installed;

4. The equipment type and model numbers for the antennas and all other equipment associated with the small wireless facility;

5. A proposed schedule for the installation and completion of each small wireless facility, utility pole and wireless support structure covered by the application, if approved;

6. A traffic plan, if necessary;

7. Copies of all licenses, permits and approvals required by or from the Village (i.e. zoning approval, where required), other agencies and units of government with jurisdiction over the design, construction, location and operation of said small wireless facility. The applicant shall maintain such licenses, permits and approvals in full force and effect and provide evidence of renewal or extension thereof when granted;

8. In the event the small wireless facility is proposed to be attached to an existing utility pole or wireless support structure owned by an entity other than the Village, legally competent evidence of the consent of the owner of such pole or wireless support structure to the proposed collocation;

9. In the event the small wireless facility is to be located on private property outside of the right-of-way, legally competent evidence of the consent of the owner of such property to the proposed collocation;

10. Application Fee(s);

11. If the proposed installation includes ground-mounted equipment, compliance with any applicable Village standards, including, where required: a landscape plan showing specific landscape materials, method of fencing, finished color and, if applicable, the method of camouflage or concealment;

12. Copy of existing Master Pole Attachment Agreement with the Village relative to Small Wireless Facilities, if any, if seeking to locate on a Village owned utility pole or wireless support structure;

13. Sufficiently detailed documentation establishing that the proposed installation will comply with all ordinances of general application pertaining to installations in the right-of-way, right-of-way usage and the National Electric Code; and

14. Proof of minimum mandatory insurance, including self-insured retentions.

Village of Hinsdale
Community Development Department
19 E. Chicago Ave., Hinsdale IL. 60521

ATTESTATION, ACKNOWLEDGMENT & SIGNATURE

I attest, to the best of my knowledge and belief, that the information stated in this application and in all supporting plans and documents is true and accurate. In addition, to the best of my knowledge and belief, the proposed collocation of the small wireless facility sought by this application complies with the written design standards established by the Village, and with the various other requirements set forth in the Small Wireless Facilities Deployment Act (P.A. 100-585), Title 7 of the Village Code, and other applicable provisions of the Village Code.

This is an application only. Completion of this application does NOT entitle the applicant to commence construction. I, the applicant, agree to conform to all applicable laws of the Village. I also agree that all work performed will be in accordance with the plans and specifications as set forth in the approved permit. I understand that the approval of this application and issuance of a permit does not obviate the need to comply with all applicable laws and ordinances. I agree to hold harmless and indemnify the Village for any claim against the Village as the result of any act of commission or omission by or on behalf of the undersigned, his/her agent, principle, contractor, subcontractor or supplier. I, the undersigned, am the duly authorized and contracted representative of the applying entity/owner of the small wireless facility.

Signature of Applicant:	Date: 6/15/2022
Printed Name of Applicant: Crown Castle Fiber LLC (Sam Franklin)	Title: Permitting Supervisor

State of IL County of DuPage

Signed and sworn (or affirmed) to before me on 15th day of June by _____

ANTHONY MISTRETTA
Official Seal
Notary Public - State of Illinois
My Commission Expires Aug 29, 2022

Signature of Notary Public

****FOR ADMINISTRATIVE USE ONLY****

Date Application was submitted:

Application Is: ☐ Complete ☐ Incomplete

If incomplete, date the Applicant was notified:

Missing documents or information:

Date Application was approved ☐ denied ☐

Missing documents or information:

VILLAGE OF HINSDALE, ILLINOIS

Small Wireless Facility
("SWF")
Required Supplemental Application

This SWF Supplemental Application and the required plans as required below must be included with each proposed application to install a SWF in the Village of Hinsdale, Illinois. This Small Wireless Facility ("SWF") Supplemental Application cannot be submitted alone; it must be attached to the Village of Hinsdale's current 'Application for a Wireless Facility' form.

Project Address/ Location: SEC 14, T38N-R11E; Wood Utility pole approximately 140' east of 55th St & S Monroe St.

Applicant's Project ID: Hinsdale - 52 - 507723

Village of Hinsdale's Project ID (if known):_____

Attach to the plans you submit with the Village of Hinsdale's Application for a Wireless Facility a 100% complete Zoning Drawing page (referred to as a "ZD-100" level drawing). Title that ZD-100 page "SWF-1". The ZD-100 must use the same size and scale as for the balance of the zoning drawings submitted to the Village of Hinsdale. The ZD-100 must provide discrete name/identification, dimensions, and volume of every component of the proposed small wireless facility. **All dimensions must be shown in decimal feet (ft), and all volumes must be shown decimal cubic feet (ft^3).** If additional plan pages are required to meet the specifications required herein add additional ZD-100 pages sequentially titled as "SWF-2" ... "SWF-3"... etc.

Provide every element proposed in connection with the small wireless facility (even if concealed within Village of Hinsdale-required camouflage elements) including and not limited to:

(a) Every electronic equipment component or cabinet of every type (e.g. radio transmission; backhaul; interconnection; etc.);
(b) Every support structure added for this project (e.g., new and replacement poles of every type such as light standards, H-Frames, pole offset brackets/sleds, all cable trays of all types, etc.);
(c) All conduits above and below ground, cables not within conduits, and interconnecting equipment;
(d) All surface-mounted and sub-surface structures not already disclosed;

(e) All electric utility and grounding equipment associated with the facility (e.g. disconnect switches, electric meters, pedestals, remote power sources, etc.);

(f) All foundations, whether physically attached to the ground or a structure, or weighted to rest about, above, or below a structure; and

(g) Each and every other element of the small wireless facility <u>not</u> disclosed in **(a)-(f)** above.

For every element disclosed in **(a)-(g)** above on the ZD-100 drawing, also list in table form the discrete name/identification, dimensions, and volumes. Provide the volumetric sum of every item listed at the bottom of the table. The table should appear very similar to the following example, and must contain all of the columns show in the example:

Call out	Description of Element	Cubic Volume of Element	Village of Hinsdale's Use Only
1	Concrete Foundation	6.2 ft^3	
2	H-Frame	2.4 ft^3	
3	Conduit 1	3.4 ft^3	
4	Conduit 2	4.1 ft^3	
21	Remote Radio Unit	1.1 ft^3	
23	DC Surge Prot.	0.4 ft^3	
24	Pwr. Meter Ped.	5.1 ft^3	
[LEAVE BLANK]		Total of above =_____ ft^3	[LEAVE BLANK]

Separately, on the ZD-100 drawing, identify and provide the height-width-depth (or height-radius for canister/cylindrical antennas) dimensions of every antenna proposed for the SWF project, including without limitation to panel antennas, omni-directional antennas, GPS-antennas, LMU antennas, microwave antennas, millimeter wave antennas, any every other type of antenna to

be placed at the SWF. For each antenna, also provide a call-out listing the volume including the dimensions of the mounting bracket if such a bracket is integrated into the antenna. Note that if the mounting bracket is not integrated into the antenna, it must be listed as part of (g) above. For every antenna, on the SWF-1 drawing, also list in table form the discrete identification, dimensions, and volumes of all antennas. The table should appear very similar to the following example, and must contain all of the columns show in the example:

Call out	Description of Element	Cubic Volume of Element	Village of Hinsdale's Use Only
A	Panel 1	5.5 ft^3	
B	Panel 2	5.5 ft^3	
C	Panel 3	5.5 ft^3	
C	Omni 1	2.1 ft^3	
M	GPS 1	1.0 ft^3	
N	Microwave 1	3.0 ft^3	
O	LMU 1	0.5 ft^3	
Insert total number of antennas here _____		[LEAVE BLANK]	[LEAVE BLANK]

All ZD-100 pages submitted in response to this SWF Required Supplemental Application must be wet stamped/sealed and signed by a qualified State of Illinois-licensed/registered professional engineer.

[Balance of page intentionally left blank]

There is/are 13 SWF Plan page(s) associated with this Small Wireless Facility ("SWF") Supplemental Application. The Plan page number(s) is/are SWF-1 through SWF-S.1.

Applicant's Certification: On behalf of the Applicant, I have reviewed the submittal specifications and have provided the ZD-100 Plan pages as required in this Small Wireless Facility ("SWF") Supplemental Application. I understand and acknowledge that this Small Wireless Facility ("SWF") Supplemental Application can only be filed in conjunction with the submittal of the Village of Hinsdale's current 'Application for a Wireless Facility' form.

Applicant's Signature

Crown Castle Fiber LLC (Sam Franklin, Permitting Supervisor)

Applicant's Printed Name and Title

6/17/2022

Date Signed by Applicant

[Balance of page intentionally left blank]

Electronic Copy Of Application

Submitted via USPS Certified Mail

Postmarked June 17th, 2022

Certificate of Compliance with Hinsdale Code of Ordinance

Crown Castle
8020 Katy Freeway
Houston, TX 77024

6/14/2022

Village of Hinsdale
19 E. Chicago Avenue, Hinsdale, Illinois 60521
Attn: Al Diaz
(630) 789-7029

RE: **Certification of compliance with written design standards and other requirements set forth in Hinsdale Code of Ordinances**

Dear Mr. Diaz,

Crown Castle certifies that, to the best of its knowledge, the collocation complies with the written design standards established by the Village, and with the various other requirements set forth in Chapter 8 of the Hinsdale Code of Ordinances, to the extent that they do not conflict with State and/or Federal Law.

Sincerely,

Sam Franklin
Permitting Supervisor

Electronic Copy Of Application

Submitted via USPS Certified Mail

Postmarked June 17th, 2022

Certification of Compliance

(State & Federal Law)

(FCC Standards)

(next page)

Statement of Compliance with paragraph (6) of Illinois Public Act 100-0585

On behalf of Crown Castle Fiber LLC ("Applicant"), I hereby certify:

The Applicant certifies that the collocations proposed in its application will operate within all applicable FCC standards to the best of the applicant's knowledge. The information provided by Applicant in this application is hereby certified as true and correct as of the date submitted.

On behalf of Crown Castle Fiber LLC:

Shawn P. Dugan
Manager of RF Engineering, Central Region
T: (724) 416-9129
Shawn.Dugan@crowncastle.com

Electronic Copy Of Application

Submitted via USPS Certified Mail

Postmarked June 17th, 2022

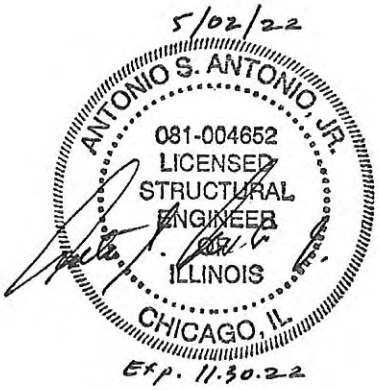
Structural Analysis

(next page)

Structural Calculations

Permit 5/02/22

Project:
Wood Utility Pole Structural Analysis
Proposed Small Cell Node
Crown Castle ID: **CTRL_HINSDALEA_52**
Customer ID: **539562**
55th St & S. Monroe St. SC
Hinsdale, IL 60521



Client:
CCSI Networks
5101 Thatcher Rd.
Downers Grove, IL 60515

Structural Engineer:
Antonio S. Antonio, Jr., P.E., S.E.
S.E. 081 –004652
Exp. 11-30-2022
Project No. **20-04-110.2**
Tel. 773-769-2672

ANTONIO AND ASSOCIATES, P.C.
Consulting Engineers

Structural Calculations

Project:

Wood Utility Pole Structural Analysis
Proposed Small Cell Node
Crown Castle ID: **CTRL_HINSDALEA_52**
Customer ID: **539562**
55th St & S. Monroe St. SC
Hinsdale, IL 60521

Client:

CCSI Networks
5101 Thatcher Rd.
Downers Grove, IL 60515

Purpose:

Provide structural analysis of existing wood ComEd utility pole designated for the installation of proposed small cell equipment. Check pole's existing "as-built" condition and determine its structural capacity to support new small cell equipment adequately.

Design Criteria:

Applicable Code:
- •2017 National Electric Safety Code (NESC)
- •ANSI O5.1-2015 (Wood Pole Specifications & Dimensions)

NESC Construction Grade:
- • Grade B

NESC Loading District:
- • Heavy

NESC Loading:
- • Rule 250B: Combined Ice and Wind District Loading
- • Rule 250C (Not Applicable < 60ft)

Proposed Small Cell Equipment:

Quantity	Description	Model Number	Attachment Ht.	Dimensions	Wt.
3	NR Antenna	Ericsson 6705 NR	See Node Drawing	14.4"x7.9"x5.9"	31 lbs (ea.)
1	Pole Extension	Wood Post	See Node Drawing	6x6x11'	100 lbs.
1	T-12 Hoffman Box	Fiber Demarc	See Node Drawing	8.7"x11.7"x4.6"	13.7 lbs
1	AC Disc. Box	Load Center	See Node Drawing	10"x13"x4.5"	10 lbs

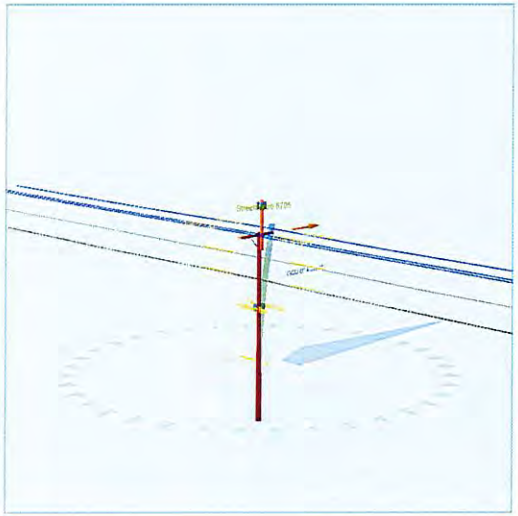
Conclusion:

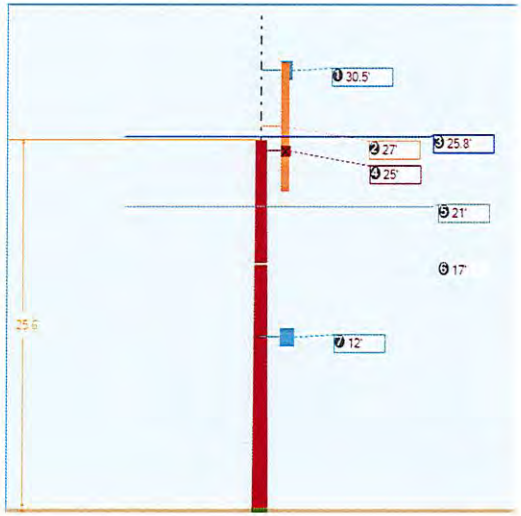
Based on the Pole Loading Analysis performed, see attached **Ref.1**, the existing wood ComEd utility pole is **structurally adequate** to support the installation of the proposed small cell equipment.

Pole Extension & Antenna Mounting:

Pole extension and antenna mounting analysis has also been performed, see attached **Ref. 2** for analysis and details.

Pole Num:	**507723AP1 copy**	Pole Length / Class:	**35 / 2**	Code:	**NESC**	Structure Type:	**Unguyed Tangent**
Aux Data 1	**Unset**	Species:	**SOUTHERN PINE**	NESC Rule:	**Rule 250B**	Status	**Unguyed**
Aux Data 2	**Unset**	Setting Depth (ft):	**9.42**	Construction Grade:	**B**	Pole Strength Factor:	**0.65**
Aux Data 3	**Unset**	G/L Circumference (in):	**35.14**	Loading District:	**Heavy**	Transverse Wind LF:	**2.50**
Aux Data 4	**Unset**	G/L Fiber Stress (psi):	**8,000**	Ice Thickness (in):	**0.50**	Wire Tension LF:	**1.10**
Aux Data 5	**Unset**	Allowable Stress (psi):	**5,200**	Wind Speed (mph):	**39.53**	Vertical LF:	**1.50**
Aux Data 6	**Unset**	Fiber Stress Ht. Reduc:	**No**	Wind Pressure (psf):	**4.00**		
Latitude:	**41.789085 Deg**	Longitude:		**-87.937902 Deg**		Elevation:	**631.869788269593 Feet**





Pole Capacity Utilization (%)		Height (ft)	Wind Angle (deg)
Maximum	42.1	0.0	0.0
Groundline	42.1	0.0	0.0
Vertical	7.4	18.1	0.0

Pole Moments (ft-lb)		Load Angle (deg)	Wind Angle (deg)
Max Cap Util	**24,832**	359.7	0.0
Groundline	**24,832**	359.7	0.0
GL Allowable	**59,561**		

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 359.7°

	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)
Powers	579	49.4	**14,176**	57.1	**23.8**	**1,226**	536	5	**1,232**	**23.7**
Comms	241	20.5	**4,298**	17.3	**7.2**	**372**	291	3	**375**	**7.2**
GenericEquipments	141	12.0	**3,365**	13.6	**5.7**	**291**	217	2	**293**	**5.6**
Pole	204	17.4	**2,818**	11.4	**4.7**	**244**	1,162	12	**256**	**4.9**
Crossarms	2	0.1	**44**	0.2	**0.1**	**4**	80	1	**5**	**0.1**
Insulators	6	0.5	**130**	0.5	**0.2**	**11**	42	0	**12**	**0.2**
Pole Load	1,172	100.0	**24,832**	100.0	**41.7**	**2,148**	2,327	24	**2,172**	**41.8**
Pole Reserve Capacity			**34,729**		**58.3**	**3,052**			**3,028**	**58.2**

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 359.7°

	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)
<Undefined>	968	82.6	**22,014**	88.7	**37.0**	**1,905**	1,165	12	**1,916**	**36.9**
Pole	204	17.4	**2,818**	11.4	**4.7**	**244**	1,162	12	**256**	**4.9**
Totals:	1,172	100.0	**24,832**	100.0	**41.7**	**2,148**	2,327	24	**2,172**	**41.8**

Detailed Load Components:

Power		Owner	Height (ft)	Horiz. Offset (in)	Cable Diameter (in)	Sag at Max Temp (ft)	Cable Weight (lbs/ft)	Lead/Span Length (ft)	Span Angle (deg)	Wire Length (ft)	Tension (lbs)	Tension Moment* (ft-lb)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Primary	ACSR 1 AWG 6/1 ROBIN		25.82	42.39	0.3550	0.17	0.115	79.0	270.0	79.0	1,172	158	134	1,152	1,444
Primary	ACSR 1 AWG 6/1 ROBIN		25.82	42.39	0.3550	0.72	0.115	168.0	90.0	168.0	1,172	-158	285	2,451	2,578
Primary	ACSR 1 AWG 6/1 ROBIN		25.82	42.39	0.3550	0.17	0.115	79.0	270.0	79.0	1,172	158	-134	1,152	1,176
Primary	ACSR 1 AWG 6/1 ROBIN		25.82	42.39	0.3550	0.72	0.115	168.0	90.0	168.0	1,172	-158	-285	2,451	2,008
Primary	ACSR 1 AWG 6/1 ROBIN		25.82	24.68	0.3550	0.17	0.115	79.0	270.0	79.0	1,172	158	-77	1,152	1,234
Primary	ACSR 1 AWG 6/1 ROBIN		25.82	24.68	0.3550	0.72	0.115	168.0	90.0	168.0	1,172	-158	-163	2,451	2,130
Neutral	ACSR 4/0 AWG 6/1 PENGUIN		21.00	6.77	0.5630	0.17	0.292	79.0	270.0	79.0	3,000	328	32	1,080	1,440

Neutral	ACSR 4/0 AWG 6/1 PENGUIN	21.00	6.77	0.5630	0.70	0.292	168.0	90.0	168.0	3,000	-328	68	2,298	2,037
										Totals:	**0**	**-139**	**14,187**	**14,048**

Comm		**Owner**	**Height (ft)**	**Horiz. Offset (in)**	**Cable Diameter (in)**	**Sag at Max Temp (ft)**	**Cable Weight (lbs/ft)**	**Lead/Span Length (ft)**	**Span Angle (deg)**	**Wire Length (ft)**	**Tension (lbs)**	**Tension Moment* (ft-lb)**	**Offset Moment* (ft-lb)**	**Wind Moment* (ft-lb)**	**Moment at GL* (ft-lb)**
Overlashed Bundle	1/4" EHS		17.00	7.02	0.2500	0.31	0.121	79.0	270.0	79.0	1,330	118	14	747	879
CATV	P3-500CA		16.98	6.93	0.5000		0.072	79.0	270.0	79.0			12	187	199
CATV	P3-500CA		16.98	7.13	0.5000		0.072	79.0	270.0	79.0			13	187	200
CATV	P3-750CA		16.93	7.02	0.7500		0.161	79.0	270.0	79.0			15	187	202
Overlashed Bundle	1/4" EHS		17.00	7.02	0.2500	1.38	0.121	168.0	90.0	168.0	1,330	-118	30	1,588	1,501
CATV	P3-500CA		16.98	6.93	0.5000		0.072	168.0	90.0	168.0			26	398	424
CATV	P3-500CA		16.98	7.13	0.5000		0.072	168.0	90.0	168.0			27	398	425
CATV	P3-750CA		16.93	7.02	0.7500		0.161	168.0	90.0	168.0			33	397	430
											Totals:	**0**	**170**	**4,089**	**4,259**

GenericEquipment		**Owner**	**Height (ft)**	**Horiz. Offset (in)**	**Offset Angle (deg)**	**Rotate Angle (deg)**	**Unit Weight (lbs)**	**Unit Height (in)**	**Unit Depth (in)**	**Unit Diameter (in)**	**Unit Length (in)**	**Offset Moment* (ft-lb)**	**Wind Moment* (ft-lb)**	**Moment at GL* (ft-lb)**
Box	Streetmacro 3-Sectors9		27.00	7.39	90.0	0.0	28.00	108.00	6.00	–	6.00	0	1,944	1,944
Box	Streetmacro 6705		30.50	14.51	110.9	0.0	31.00	16.20	6.10	–	8.10	-20	309	289
Box	Streetmacro 6705		30.50	10.21	46.3	0.0	31.00	16.20	6.10	–	8.10	27	343	370
Box	Streetmacro 6705		30.50	5.32	166.7	0.0	31.00	16.20	6.10	–	8.10	-20	389	369
Box	Hoffman Box		12.00	8.84	180.0	0.0	13.70	16.00	6.00	–	10.00	-15	213	198
Box	Disconnect Box		12.00	12.99	0.0	0.0	10.00	12.60	4.30	–	8.90	16	150	166
											Totals:	**-12**	**3,347**	**3,335**

Crossarm		**Owner**	**Height (ft)**	**Horiz. Offset (in)**	**Offset Angle (deg)**	**Rotate Angle (deg)**	**Unit Weight (lbs)**	**Unit Height (in)**	**Unit Depth (in)**	**Unit Length (in)**	**Offset Moment* (ft-lb)**	**Wind Moment* (ft-lb)**	**Moment at GL* (ft-lb)**
Normal	CROSSARM 3-1/2 X 4-1/2 X 8		25.01	5.77	270.0	270.0	53.00	4.50	3.50	96.00	0	44	44
										Totals:	**0**	**44**	**44**

Insulator		**Owner**	**Height (ft)**	**Horiz. Offset (in)**	**Offset Angle (deg)**	**Rotate Angle (deg)**	**Unit Weight (lbs)**	**Unit Diameter (in)**	**Unit Length (in)**	**Offset Moment* (ft-lb)**	**Wind Moment* (ft-lb)**	**Moment at GL* (ft-lb)**
Pin	Pin Insulator - 5 kV		25.20	42.00	352.2	0.0	6.00	3.50	7.50	32	46	78
Pin	Pin Insulator - 5 kV		25.20	-42.00	187.8	0.0	6.00	3.50	7.50	-31	46	15
Pin	Pin Insulator - 5 kV		25.20	-24.00	193.5	0.0	6.00	3.50	7.50	-18	46	28
Bolt	Single Bolt		21.00	0.00	0.0	0.0	5.00	3.00	0.00	4	0	4

Bolt	Three Bolt	17.00	0.00	0.0	0.0	5.00	3.00	0.00	4	0	4
								Totals:	**-9**	**138**	**129**

Pole Buckling

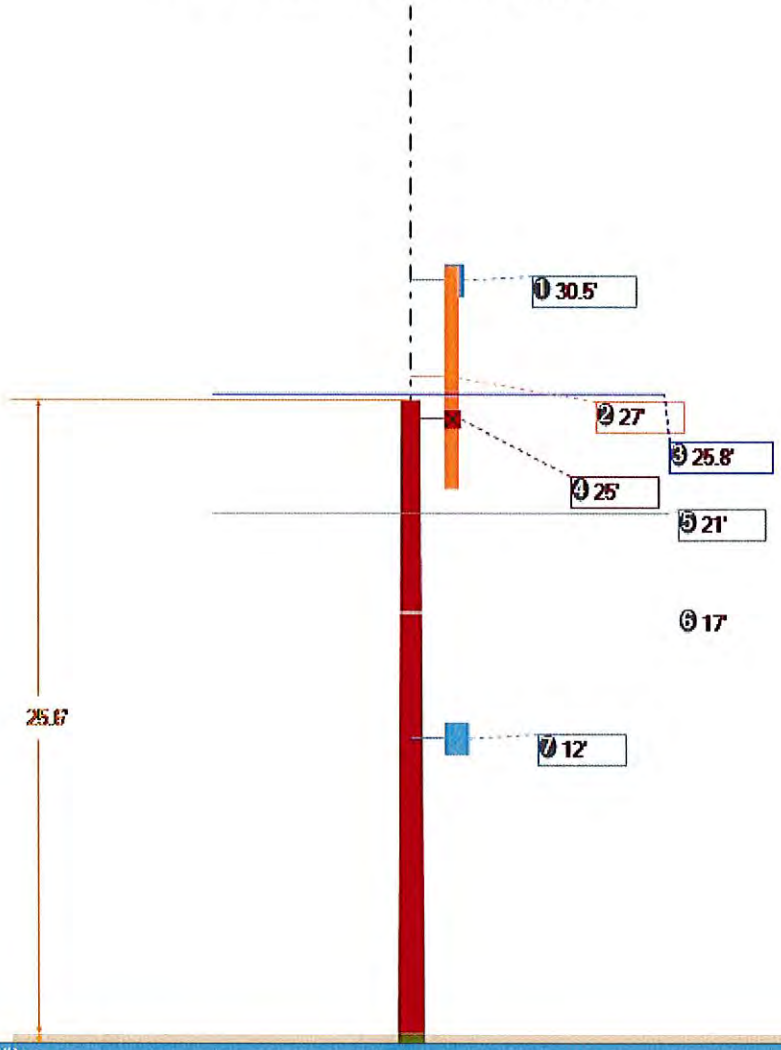
Buckling Constant	Buckling Column Height* (ft)	Buckling Section Height (% Buckling Col. Hgt.)	Buckling Section Diameter (in)	Minimum Buckling Diameter at GL (in)	Diameter at Tip (in)	Diameter at GL (in)	Modulus of Elasticity (psi)	Pole Density (pcf)	Ice Density (pcf)	Pole Tip Height (ft)	Buckling Load Capacity at Height (lbs)	Buckling Load Applied at Height (lbs)	Buckling Load Factor of Safety
2.00	18.09	33.06	10.43	11.25	7.96	11.19	1.60e+6	60.00	57.00	25.58	31,654	**314.44**	**13.51**

O-Calc® Pro Schematic View

Pole Identification: 507723AP1 copy

Report Created: 4/30/2022

File: Pole_507723AP1 copy_pplx.pplx



1 - 30.5' (366")

Streetmacro 6705
Streetmacro 6705
Streetmacro 6705

2 - 27' (324")

4x4 Extension

3 - 25.8' (309.9")

Primary 270° 79' 0.355" (ACSR 1 AWG 6/1 ROBIN)
Primary 90° 168' 0.355" (ACSR 1 AWG 6/1 ROBIN)
Primary 270° 79' 0.355" (ACSR 1 AWG 6/1 ROBIN)
Primary 90° 168' 0.355" (ACSR 1 AWG 6/1 ROBIN)
Primary 270° 79' 0.355" (ACSR 1 AWG 6/1 ROBIN)
Primary 90° 168' 0.355" (ACSR 1 AWG 6/1 ROBIN)

4 - 25' (300.1")

Normal 8ft 3.5in x 4.5in

5 - 21' (252") Neutral 270° 79' 0.563" (ACSR 4/0 AWG 6/1 PENGUIN) Neutral 90° 168' 0.563" (ACSR 4/0 AWG 6/1 PENGUIN)
6 - 17' (204") 1/4" EHS 270° 79' Msgr:0.250" 1/4" EHS 90° 168' Msgr:0.250"
7 - 12' (144") Disconnect Box Disconnect Box

Antonio S. Antonio SE

BACKGROUND

A NEW 6"x6"x11' (MAX.) Long WOOD POST (POLE TOP Extension) Item 8 that will be installed at the free end of Electrical WOOD pole. The New WOOD post will support a NR ANTENNA X3 (mounted around the pole per AZIMUTH ON Det. 2 Sheet 6)

Purposed

The purposed of this Calculation is to qualify the ff: Structural Elements:

Items

1. 6"x6"x 11'-0 max. Long WOOD POST
2.) Connection bolts to connect 6"x6" WOOD post to the free end of Electrical WOOD pole.

Equipment Data

1.) Item 7 Model No. 6705(3)

(3) Ericsson NR Radios w/ /Antennas on
(3) Ericsson NR Radios w/ /Antennas on
(3) Ericsson NR Radios w/Antennas on

SIZE L = 14.4" W = 7.9" D = 5.9" (H x W x D)

WEIGHS = 31.0 lbs ea

Area of Displacement = 66.07 SQ inches ea.

Volume = 875.77 cu. in ea.

2.) Misc Connection & others lease Equipment Wts = 40.0 lbs (approx)

DESIGN LOADS

WIND LOADING
a) Winter time 40 mph w/ 1/2" ICING built up 4 PSF
b.) Others 90 MPH = 25 PSF

ESC Rule	250B
LOADING District	Heavy
Construction Grade	B

WIND SPEED Utility pole w/ 1/2" ICING = 40 MPH (4. PSF)
WIND Speed ON Antenna = 90 MPH (25. PSF)

QUALIFICATION:

Dead LOADS

WT OF 3-ERICSSON NR Radios 3(31) = 93 lbs.
MISC. Connections & others = 40
WOOD post 6"x6"x11'/144 x 40 PCF = 110
Total D.L. = 93+40+110 = 243.0 say 340 lbs.

WIND LOADING

(3) ERICSSON Radios w/ Antenna
Lateral Surfaces of Antenna = (21.2x5.1)/144 = 0.75 SF eac.
THREE Surfaces EXPOSED = 3(.75) = 2.25 SF (N-S & E-W)

CASE 1

FOR 40 MPH + 1/2" ICE. ICING built-up 4.0 PSF
(3) ERICSSON Radios w/ Antenna
Lateral Surface area = 21.2(8.1)2 + 8.1(5.1)2 + 21.2(5.1)2 = 642.3 SQ. ea
Total Lateral Surface for 3 ERICSSON Radios/Antenna = 642.3/144 (3) = 13.42 SF
P_{ICING} = 4.0(13.42) = 53.69 lbs
WOOD ICING = $(0.5)^2(11.0)4$ = 44.0 lbs $H/D = 2/1.2 < 7$
F_{Wind} = 2.25(4.) = 9.0 lbs., F = 1.0
WOOD = $(.5)^2(9)4.$ = 11.0 lbs.
Total D.L. = 93.0 + 40. + 110. + 53.69 = 340.69 lbs.

CASE 2.

WIND SPEED = 90 mph (25 PSF), F = 1.0

F_1 = (3) ERICSSON NR Radios/Antenna = F(25.)2.25 = 56.25 lbs. applied @ 9.5 from Center of bolts

F_2 = 6x6x9 - .5(9)25 = 112.5 lbs @ 5.5' at Center of bolts

DEAD LOAD

W_1 = 93 lbs (3) Ericsson NR Radios applied @ 1.0 Center of bolt CONN.

W_2 = 110 lbs. 6x6x9' WOOD POST applied @ 10' Center of bolt CONN.

W_3 = 40 lbs applied @ 1.0 ft Center of the bolt.

Total forces at Center of bolt Connections

Total D.L. = 340. lbs.

M = 56.3(9.5) + 112.5(5.5) + 340.(2)

= 534.9 + 618.8 + 680. = 1833 ft kips = 1850 FT-KIPS

Case I

Total forces at center of bolt Connections

Total D.L. = 430.7 Say 440 lbs.

Total Bending Moment at Center of bolts applied 1 ft from ℄ of bolts

M = 53.7 (9.5) + 11.0(5.5) + 340(2) = 510. + 60.5 + 680.0 = 1252. FT-KIPS

∴ THIS CASE 1 DOES NOT COVERN THE DESIGN!

QUALIFICATION

6"x6"x11' Long SOUTHERN PINE DENSE #2 F_b = 1200 PSI

F_c perpendicular to grain = 565 PSI

SECTION MODULAS S_x = 27.73 IN^3 I_x = 76.2 in^4

A = 30.25

Fiber Stress $F_b = \frac{1850. \times 12}{27.73} = 800.6$ PSI < 1200 PSI

$\frac{f_b}{F_b} = \frac{800.6}{1200} = 0.67$ Axial Load = 340.^{LBS} $f_a = \frac{340}{30.25} = 11.24$ PSI

F_a = 565

UNITY CHECK $\frac{f_b}{F_b} + \frac{f_a}{F_a} = 0.67 + \frac{11.24}{565} = 0.67 + .02 = .69 < 1.0$ FINE!

∴ USE 6"x6"x 11'-0 SOUTHERN PINE #2 F_b = 1200 psi P. 6

Item 2

BOLTS 1/2 DIA. A307 THAN BOLTS OR 5/8" DIA. THAN BOLTS (A307)

FOR 1/2 DIA. BOLTS CAPACITY IN TENSION $T = A(20{,}000) = .2(20{,}000) = 4000$ lbs.

OR 5/8 DIA BOLTS CAPACITY, IN TENSION $T = A(20{,}000)$

$= .31(20{,}000) = 6{,}132.0$ lbs

ACTUAL TENSION ON BOLTS $= 1850/1.5 = 1234$ kips < 4000 lbs.

CHECK ON BEARING ON 1/4 WASHERS

$F_b = 3.4(1.25)565 = 2217.6 > 1234$ lbs. O.K.

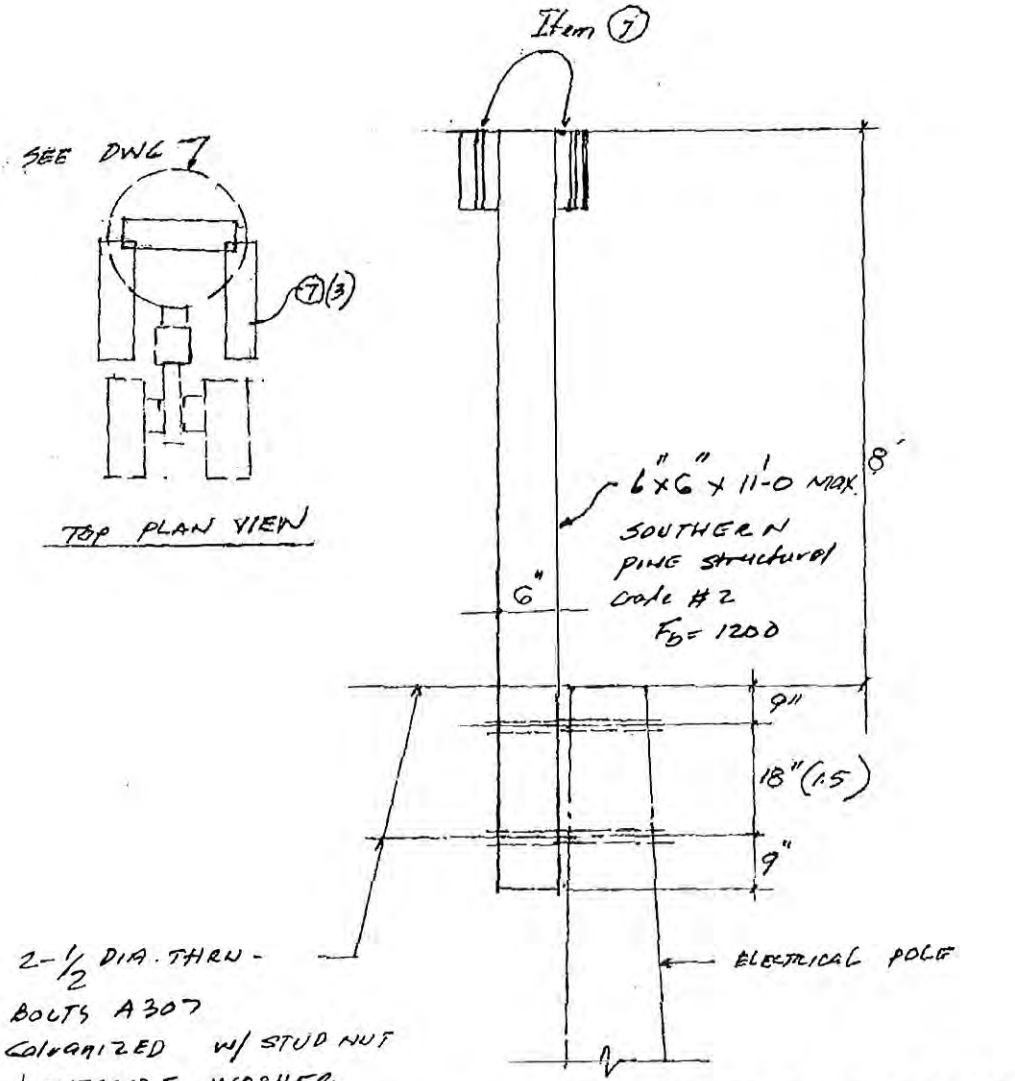
Bearing Holes

$A = 5.5(\frac{1}{2} + \frac{1}{8}) = 3.44$

$F_B = 3.44(565) = 1942.2$ lbs > 1234.0 lb.

THEREFORE USE 2-1/2 DIA. bolts (A307) GALVANIZED THRU-BOLTS W/ STUD NUT & OVERSIZE WASHERS (NON-slotted or slotted holes Not permitted).

A.S. Antonio Vr. SE.



Electronic Copy Of Application

Submitted via USPS Certified Mail

Postmarked June 17th, 2022

Specifications and Drawing Plans

(includes photographs of site location)

(equipment types and model numbers)

(next page)

CROWN CASTLE

PROPOSED
SMALL CELL NODE

SCU: 507723

CROWN CASTLE ID: CTRL_HINSDALEA_52

PSLOC: 539562

HUB:
CH 55TH&LAGRANGE_HD

SEC 14, T38N-R11E,
HINSDALE, DuPAGE COUNTY, ILLINOIS

LOCATION MAP:

PLAN VIEW (55TH ST & S MONROE ST):

INDEX OF DRAWINGS:

SHEET	TITLE
SWF-1	COVER
SWF-2	EXISTING & PROPOSED POLE IMAGE
SWF-3	TRAFFIC CONTROL - TYPICALS
SWF-4	EXISTING & PROPOSED SOUTH ELEVATION
SWF-5	EXISTING & PROPOSED EAST ELEVATION
SWF-6	WIRING DIAGRAM & EQUIPMENT DETAILS
SWF-7	OVERHEAD POLE DETAIL
SWF-8	BREAKER PANEL W/ MAIN DISCONNECT SCHEMATIC
SWF-9	GROUNDING RISER DIAGRAM
SWF-10	COMED STANDARD C7526 NOTES & SPECS
SWF-11	COMED STANDARD C7526 DIAGRAMS
SWF-12	GENERAL AND SPECIFIC PROJECT NOTES

EQUIPMENT SPECIFICATIONS SUPPLEMENT

SWF-S.1	6705 ERICSSON NR ANTENNA SPECIFICATIONS

PROJECT DESCRIPTION:

PROJECT NO: 2211-005-U02-N052

PROPOSED INSTALLATION OF SMALL CELL EQUIPMENT AND ANTENNAS ON EXISTING WOOD POLE. FIBER AND POWER CABLES VIA NEW CONDUIT (UNDER SEPERATE PERMIT SUBMISSION).

SITE COORDINATES:

LATITUDE: N 041° 47' 20.71" (DEGREE, MINUTES, SECONDS)
N 41.78909 (DECIMAL)

LONGITUDE: W 087° 56' 16.46" (DEGREE, MINUTES, SECONDS)
W 87.93791 (DECIMAL)

SITE ELEV.: 736.33' ± 3.0'

FAA 1A CERTIFICATION: MAY 11, 2022

811
Know what's **below.**
Call before you dig.

REQUIRES 2 BUSINESS DAYS
NOTICE BEFORE YOU EXCAVATE

POLE IMAGE (LOOKING WEST)

EXISTING

PROPOSED

ENGINEER CERTIFICATION

LICENSED PROFESSIONAL ENGINEER
OWEN L. STAMM
062-060931
STATE OF ILLINOIS

EXP 11/30/2023

ENGINEER:
CCSI NETWORKS
A NETWORK CONVEX COMPANY
5101 THATCHER RD.
DOWNERS GROVE, IL 60515
OFFICE 630.572.9999 • FAX 630.572.9998

OWNER:
CROWN CASTLE
CROWN CASTLE FIBER
7220 N. SAM HOUSTON PARKWAY WEST
SUITE 500
HOUSTON, TX 77604

CONTRACTOR:
TBD

TITLE:
PROPOSED
SMALL CELL NODE

55TH ST & S MONROE ST SC
HINSDALE,
DuPAGE, IL 60521

CROWN CASTLE ID:	CTRL_HINSDALEA_52
HUB:	CH 55TH&LAGRANGE_HD
SCU: 507723	PSLOC: 539562
PROJECT NUMBER:	2211-005-U02-N052
DRAWN BY: JCS	DATE DRAWN: 04/27/2022

NO.	DATE	DESCRIPTION	BY
	06/14/22	PERMIT	JCS

REVISIONS

SHEET NUMBER
SWF-1

1 EXISTING POLE
SCALE: NONE

2 PROPOSED POLE
SCALE: NONE

ENGINEER:
CCSI NETWORKS
A NETWORK CONNEX COMPANY
5101 THATCHER RD.
DOWNERS GROVE, IL 60515
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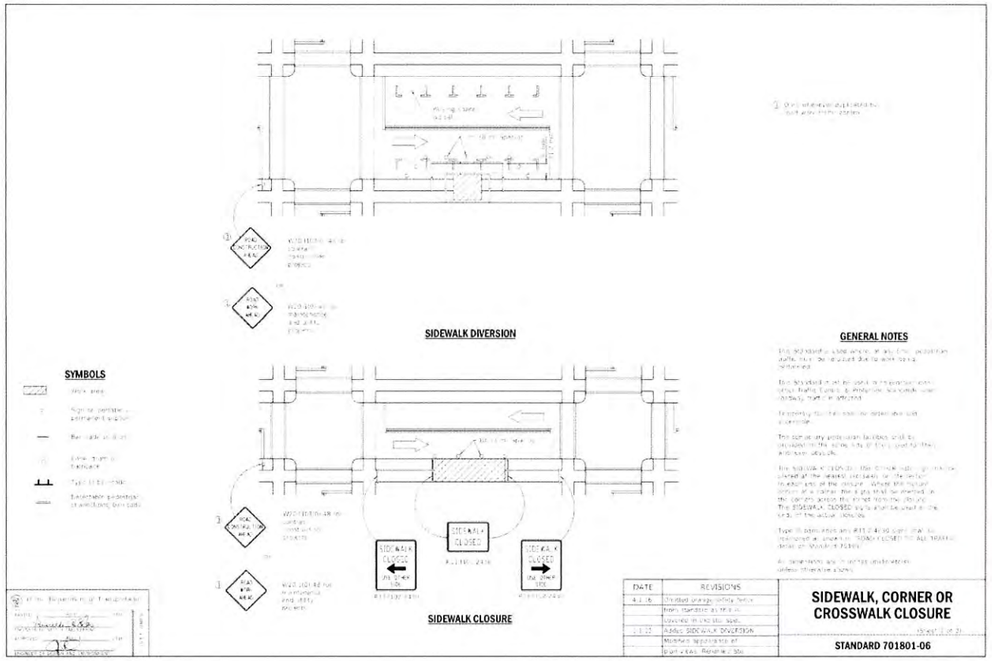
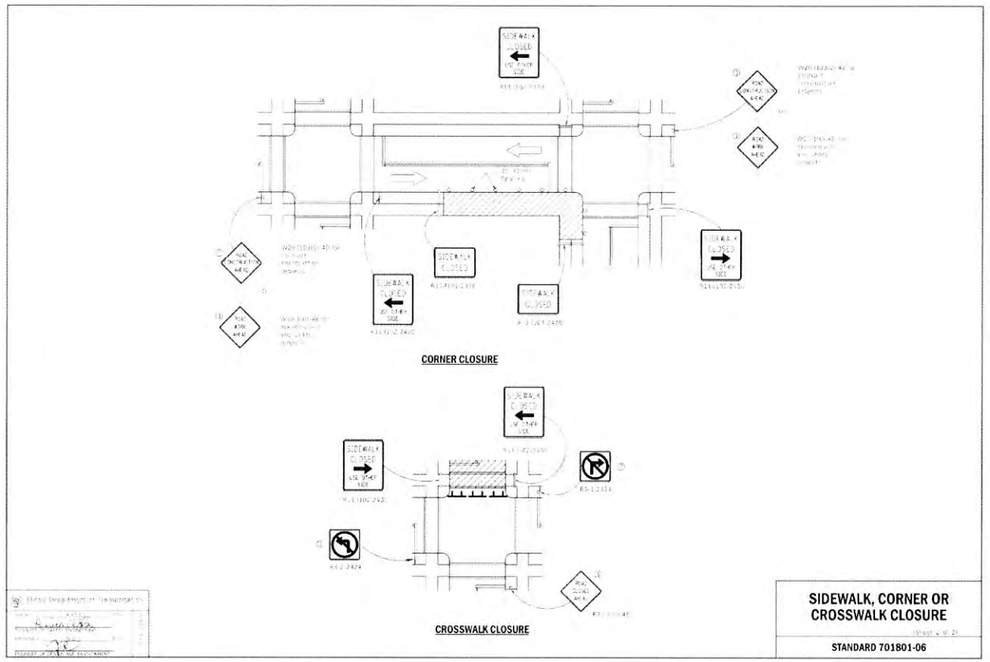
NO.	DATE	DESCRIPTION	BY
	06/14/22	PERMIT	JCS

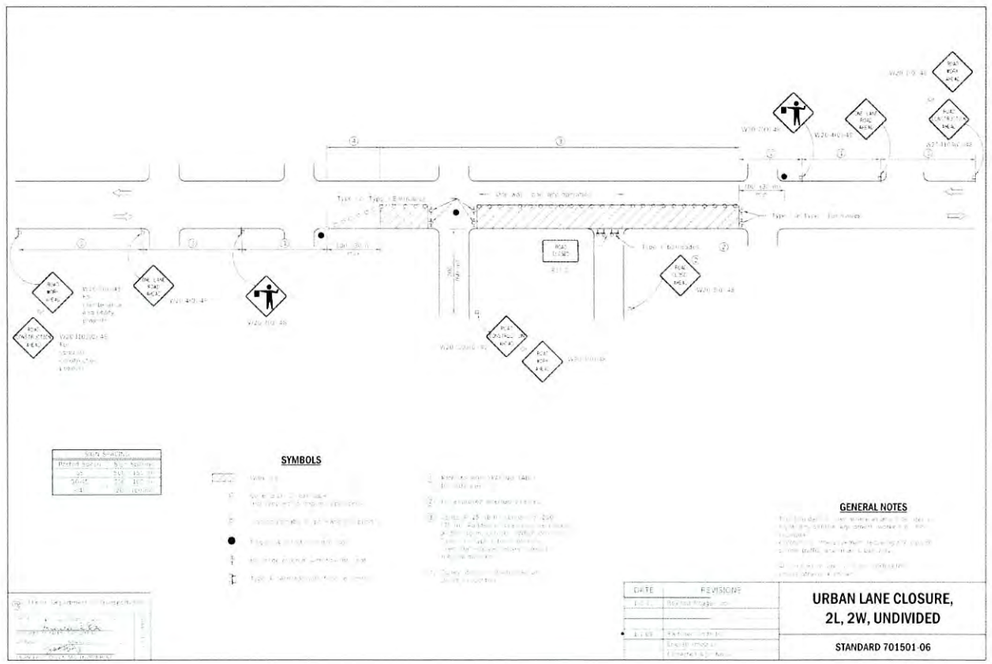
REVISIONS

SHEET NUMBER
SWF-2

TRAFFIC CONTROL - TYPICALS







ENGINEER:

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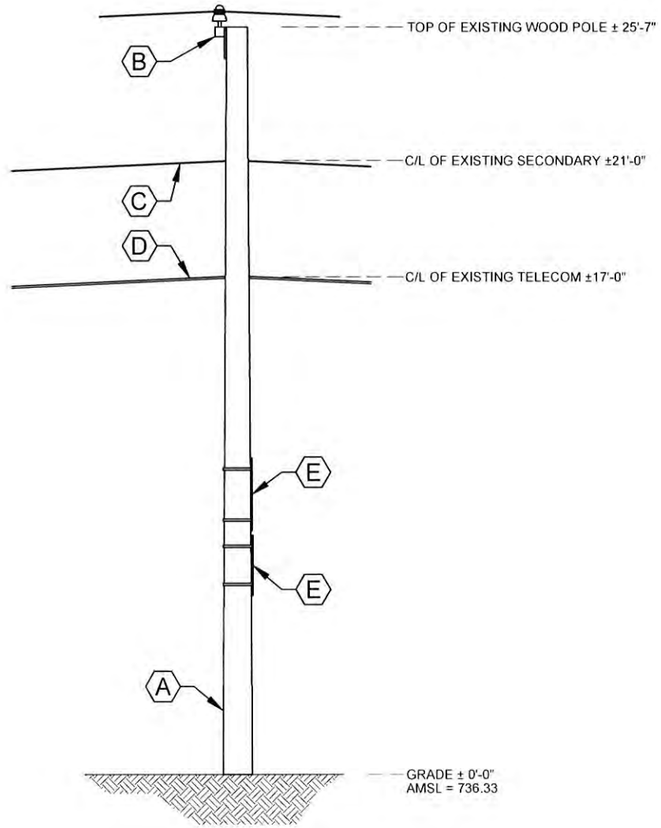
DRAWN BY: JCS	DATE DRAWN: 04/27/2022

NO.	DATE	DESCRIPTION	BY
	06/14/22	PERMIT	JCS

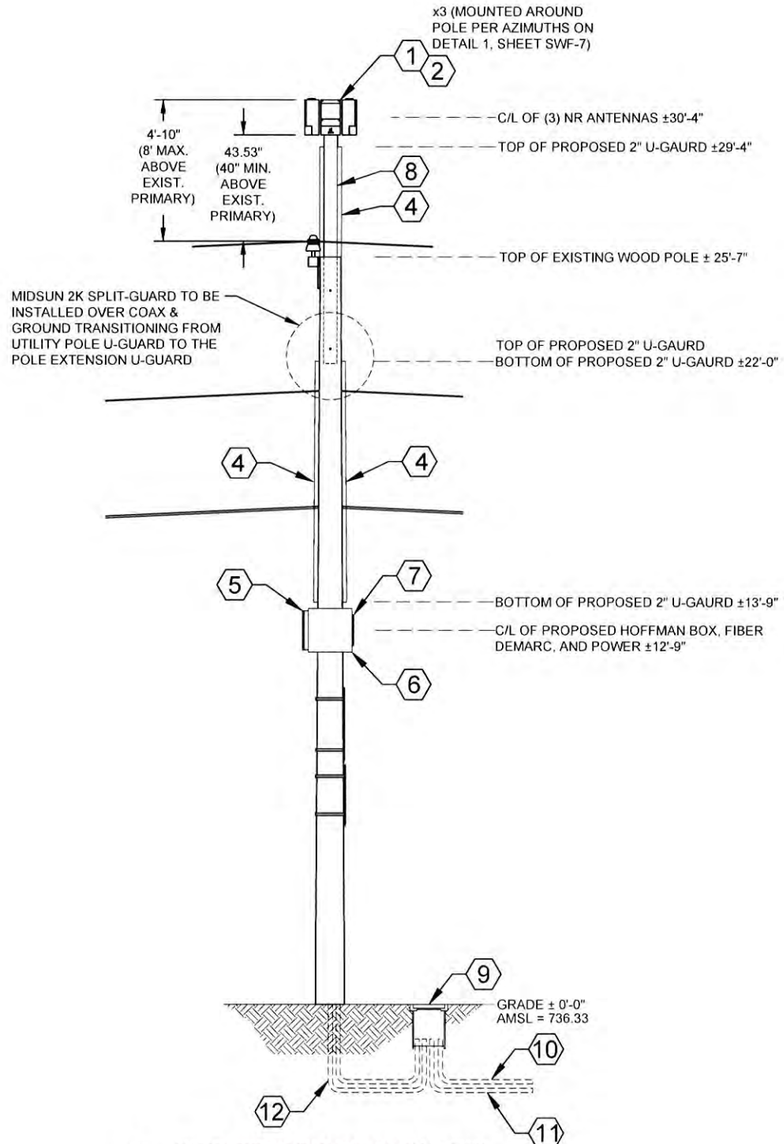
REVISIONS

SHEET NUMBER:

SWF-3



1 EXISTING SOUTH ELEVATION
SCALE: 1" = 5'-0"



2 PROPOSED SOUTH ELEVATION
SCALE: 1" = 5'-0"

PROPOSED EQUIPMENT KEY:

1. (3) ERICSSON 6705 NR RADIOS w/ ANTENNAS.
   MODEL NO. 6705
   14.40" x 7.90" x 5.90" (HxWxD) - 31.00 lbs. ea.
2. (3) AIRSCALE - HORIZONTAL RADIO MOUNT BRACKET
   PART NO. ERICSSON - AIR BRACKET
   3.9" x 7.9" x 11.8" (HxWxD) - 13.7 lbs.
3. NOT USED
4. 2" NON-METALLIC U-GAURD ATTACHMENT FOR FIBER/COAXIAL CABLES
5. HOFFMAN BOX
   PART NO. A161606 (OR EQUIVALENT)
   16.0" x 10.0" x 6.0" (HxWxD) - 13.7 lbs.
6. CHARLES FIBER DEMARC
   PART NO. CFIT-C (OR EQUIVALENT)
   18.00" x 18.00" x 6.00" (HxWxD) - 15.0 lbs.
7. AC DISCONNECT BOX
   PART NO. BA206 (OR EQUIVALENT)
   12.60" x 8.90" x 4.30" (HxWxD) - 9.70 lbs.
8. 9' WOOD POLE TOP EXTENSION
9. PROPOSED BURIED QUAZITE ENCLOSURE TO HOUSE GROUND ROD AND IN-LINE FUSES FOR SMALL CELL POWER DISCONNECT (QUAZITE COVER SHALL CORRECTLY IDENTIFY OWNER ON LID "ID PLACARD") (TO BE INSTALLED BY OTHERS)
10. (1) PROPOSED UNDERGROUND POWER CONDUIT (TO BE INSTALLED BY OTHERS)
11. (1) PROPOSED FIBER CONDUIT (TO BE INSTALLED BY OTHERS)
12. (2) PROPOSED 2" RIGID CONDUIT FOR POWER & FIBER (TO BE INSTALLED BY OTHERS)

PROPOSED RF:

RADIO	AZIMUTH		
	A	B	C
5G	0°	120°	240°

TOTALS:

TOTAL WEIGHT	172.5 LBS
TOTAL VOLUME OF EQUIPMENT	3.75 ft³

EXISTING EQUIPMENT KEY:
(EQUIPMENT TO REMAIN)

- A EXISTING COMED WOOD POLE
- B EXISTING COMED STADOFF ARM w/(3) PRIMARY POWER SUPPLY FEED ATTACHMENTS
- C EXISTING COMED SECONDARY POWER SUPPLY FEED ATTACHMENT
- D EXISTING TELECOM LINE ATTACHMENT
- E EXISTING TRAFFIC SIGNAGE

ENGINEER:
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A NETWORK CRANES COMPANY
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DOWNERS GROVE, IL 60515
OFFICE 630.572.9999 • FAX 630.572.9998

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CROWN CASTLE FIBER
7220 N. SAM HOUSTON PARKWAY WEST
SUITE 500
HOUSTON, TX 77604

CONTRACTOR:
TBD

TITLE:
PROPOSED
SMALL CELL NODE

55TH ST & S MONROE ST SC
HINSDALE,
DuPAGE, IL 60521

CROWN CASTLE ID:	CTRL_HINSDALEA_52
HUB:	CH 55TH&LAGRANGE_HD
SCU:	507723
PSLOC:	539562
PROJECT NUMBER:	2211-005-U02-N052
DRAWN BY:	JCS
DATE DRAWN:	04/27/2022

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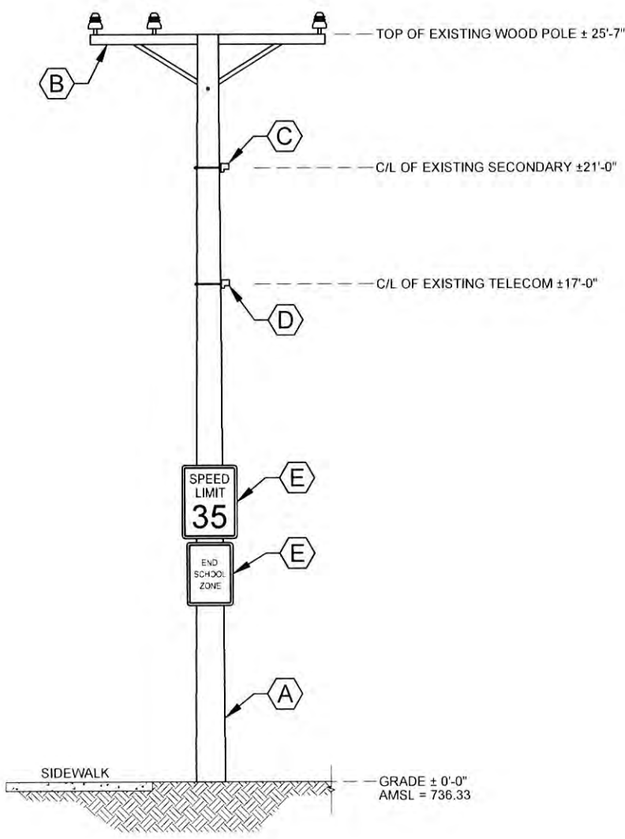
	06/14/22	PERMIT	JCS

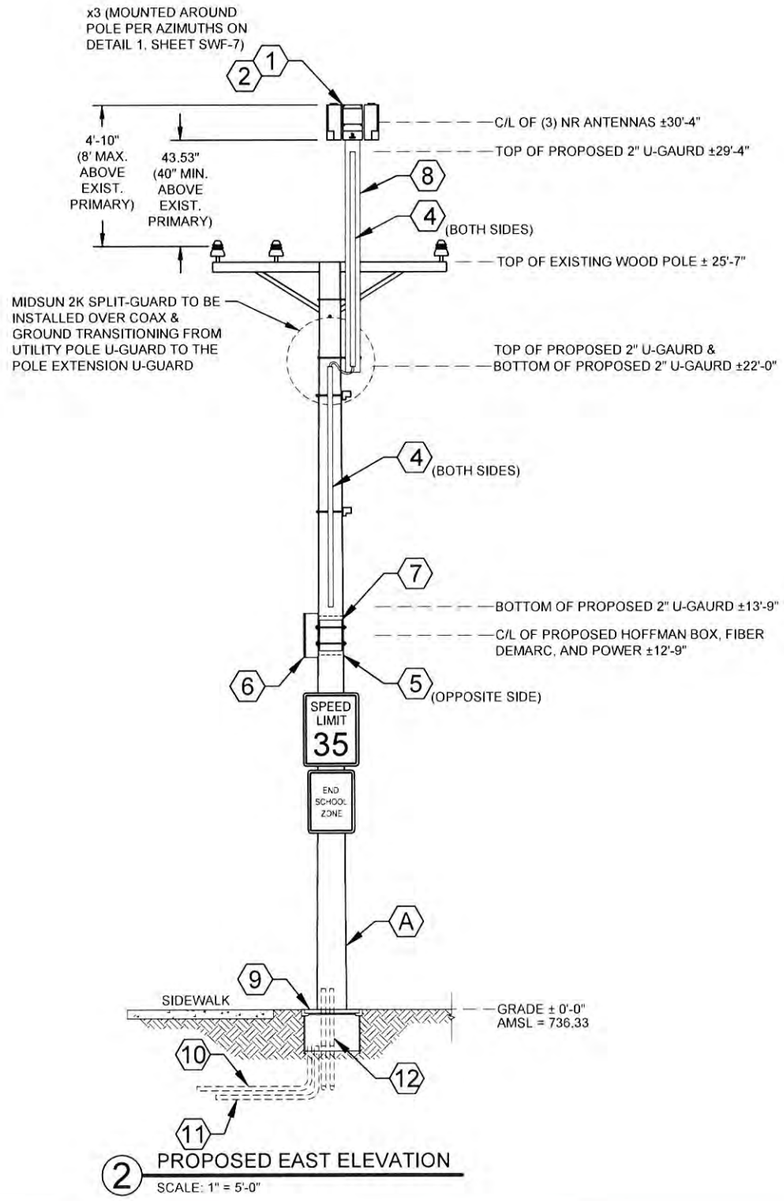
REVISIONS

SHEET NUMBER:
SWF-4



1 EXISTING EAST ELEVATION

SCALE: 1" = 5'-0"



2 PROPOSED EAST ELEVATION

SCALE: 1" = 5'-0"

PROPOSED EQUIPMENT KEY:

1. (3) ERICSSON 6705 NR RADIOS w/ ANTENNAS.
   MODEL NO. 6705
   14.40" x 7.90" x 5.90" (HxWxD) - 31.00 lbs. ea.
2. (3) AIRSCALE - HORIZONTAL RADIO MOUNT BRACKET
   PART NO. ERICSSON - AIR BRACKET
   3.9" x 7.9" x 11.8" (HxWxD) - 13.7 lbs.
3. NOT USED
4. 2" NON-METALLIC U-GAURD ATTACHMENT FOR FIBER/COAXIAL CABLES
5. HOFFMAN BOX
   PART NO. A161606 (OR EQUIVALENT)
   16.0" x 10.0" x 6.0" (HxWxD) - 13.7 lbs.
6. CHARLES FIBER DEMARC
   PART NO. CFIT-C (OR EQUIVALENT)
   18.00" x 18.00" x 6.00" (HxWxD) - 15.0 lbs.
7. AC DISCONNECT BOX
   PART NO. BA206 (OR EQUIVALENT)
   12.60" x 8.90" x 4.30" (HxWxD) - 9.70 lbs.
8. 9' WOOD POLE TOP EXTENSION
9. PROPOSED BURIED QUAZITE ENCLOSURE TO HOUSE GROUND ROD AND IN-LINE FUSES FOR SMALL CELL POWER DISCONNECT (QUAZITE COVER SHALL CORRECTLY IDENTIFY OWNER ON LID "ID PLACARD") (TO BE INSTALLED BY OTHERS)
10. (1) PROPOSED UNDERGROUND POWER CONDUIT (TO BE INSTALLED BY OTHERS)
11. (1) PROPOSED FIBER CONDUIT (TO BE INSTALLED BY OTHERS)
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PROPOSED RF:

RADIO	AZIMUTH		
	A	B	C
5G	0°	120°	240°

TOTALS:

TOTAL WEIGHT	172.5 LBS
TOTAL VOLUME OF EQUIPMENT	3.75 ft³

EXISTING EQUIPMENT KEY:

(EQUIPMENT TO REMAIN)

- A EXISTING COMED WOOD POLE
- B EXISTING COMED STADOFF ARM w/(3) PRIMARY POWER SUPPLY FEED ATTACHMENTS
- C EXISTING COMED SECONDARY POWER SUPPLY FEED ATTACHMENT
- D EXISTING TELECOM LINE ATTACHMENT
- E EXISTING TRAFFIC SIGNAGE

ENGINEER:
CCSI NETWORKS
A NETWORK OPS COMPANY
5101 THATCHER RD.
DOWNERS GROVE. IL 60515
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OWNER:
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CROWN CASTLE FIBER
7220 N. SAM HOUSTON PARKWAY WEST
SUITE 500
HOUSTON, TX 77604

CONTRACTOR:
TBD

TITLE:
PROPOSED
SMALL CELL NODE

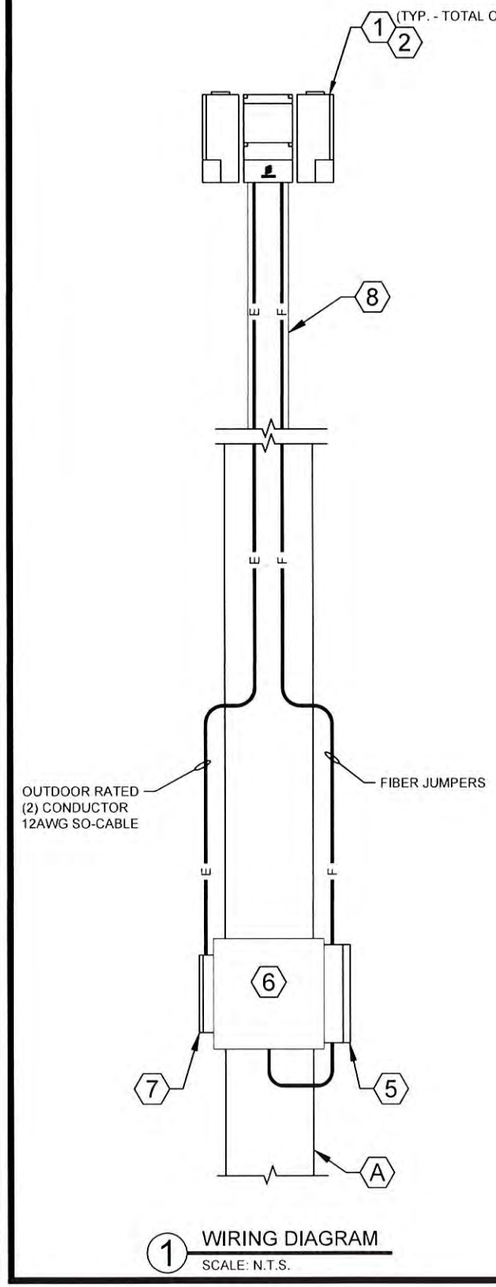
55TH ST & S MONROE ST SC
HINSDALE,
DuPAGE, IL 60521

CROWN CASTLE ID:	CTRL_HINSDALEA_52
HUB:	CH 55TH&LAGRANGE_HD
SCU: 507723	PSLOC: 539562
PROJECT NUMBER:	2211-005-U02-N052
DRAWN BY: JCS	DATE DRAWN: 04/27/2022

NO.	DATE	DESCRIPTION	BY
	06/14/22	PERMIT	JCS

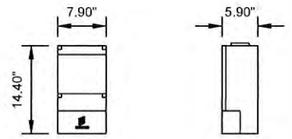
REVISIONS

SHEET NUMBER
SWF-5

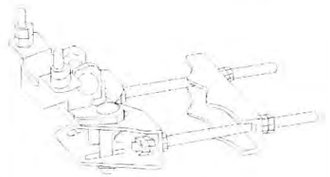


1 WIRING DIAGRAM
SCALE: N.T.S.

PROPOSED EQUIPMENT DETAILS



1 "ERICSSON" NR ANTENNA
SCALE: 1" = 2'-0"



WEIGHT: 13.7 LBS
SIZE (HxWxD): 3.9x7.9x11.8 IN.

2 "ERICSSON" AIR BRACKET
SCALE: NONE

- NOT USED
NONE

- NOT USED
NONE

- NOT USED
NONE

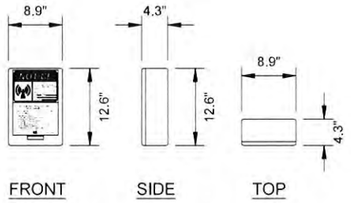
- NOT USED
NONE

P/N: A161606
WEIGHT: 13.7 LBS
SIZE (HxWxD): 16.0x10.0x6.0 IN.

5 "HOFFMAN" JUNCTION BOX
SCALE: NONE

WEIGHT: 15 LBS
SIZE (HxWxD): 18.0x18.0x6.0 IN.

6 CHARLES FIBER INTERCONNECT TERMINAL
SCALE: NONE



7 AC DISCONNECT BOX
SCALE: 1" = 2'-0"

- NOT USED
NONE

PROPOSED EQUIPMENT KEY:

1. (3) ERICSSON 6705 NR RADIOS w/ ANTENNAS, MODEL NO. 6705
   14.40" x 7.90" x 5.90" (HxWxD) - 31.00 lbs. ea.
2. (3) AIRSCALE - HORIZONTAL RADIO MOUNT BRACKET PART NO. ERICSSON - AIR BRACKET
   3.9" x 7.9" x 11.8" (HxWxD) - 13.7 lbs.
3. NOT USED
4. 2" NON-METALLIC U-GAURD ATTACHMENT FOR FIBER/COAXIAL CABLES
5. HOFFMAN BOX
   PART NO. A161606 (OR EQUIVALENT)
   16.0" x 10.0" x 6.0" (HxWxD) - 13.7 lbs.
6. CHARLES FIBER DEMARC
   PART NO. CFIT-C (OR EQUIVALENT)
   18.00" x 18.00" x 6.00" (HxWxD) - 15.0 lbs.
7. AC DISCONNECT BOX
   PART NO. BA206 (OR EQUIVALENT)
   12.60" x 8.90" x 4.30" (HxWxD) - 9.70 lbs.
8. 9' WOOD POLE TOP EXTENSION

EXISTING EQUIPMENT KEY:
(EQUIPMENT TO REMAIN)

A. EXISTING COMED WOOD POLE

VOLUME TABLES:

CALL OUT	DESCRIPTION OF ELEMENT	CUBIC VOLUME OF ELEMENT	VILLAGE OF HINSDALE'S USE ONLY
1	5G RADIO	1.16 ft³	

CALL OUT	DESCRIPTION OF ELEMENT	CUBIC VOLUME OF ELEMENT	VILLAGE OF HINSDALE'S USE ONLY
2	RADIO MOUNT BRACKET	0.63 ft³	
5	HOFFMAN BOX	0.55 ft³	
6	CHARLES FIBER DEMARC	1.12 ft³	
7	AC DISCONNECT	0.27 ft³	

PROPOSED CONCEALMENT NOTES:

ALL PROPOSED ITEMS ARE TO BE PAINTED TO MATCH THE POLE.

ENGINEER:
CCSI NETWORKS
A NETWORK CONNEX COMPANY
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CONTRACTOR:
TBD

TITLE:
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SMALL CELL NODE

55TH ST & S MONROE ST SC
HINSDALE,
DuPAGE, IL 60521

CROWN CASTLE ID:
CTRL_HINSDALEA_52

HUB:
CH 55TH&LAGRANGE_HD

SCU: 507723
PSLOC: 539562

PROJECT NUMBER:
2211-005-U02-N052

DRAWN BY: JCS
DATE DRAWN: 04/27/2022

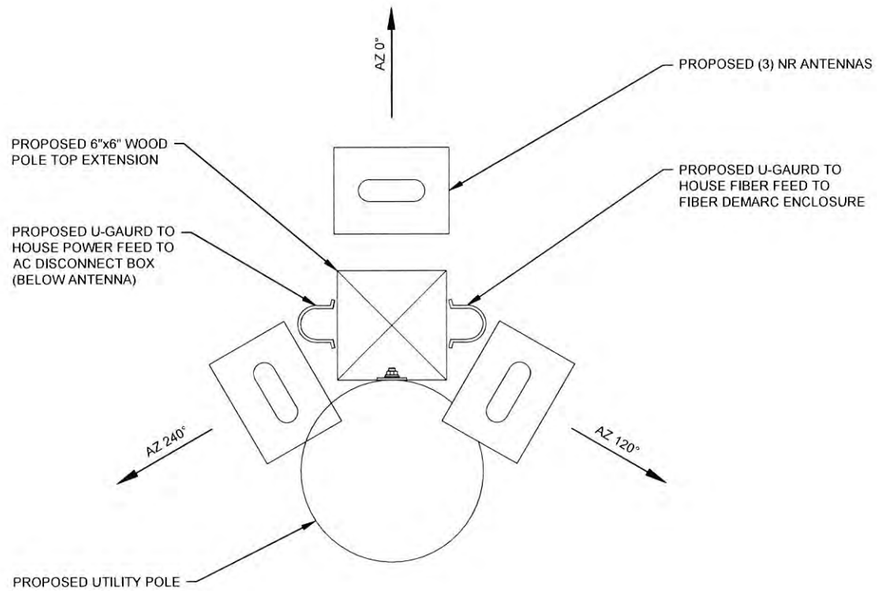
NO.	DATE	DESCRIPTION	BY
	06/14/22	PERMIT	JCS

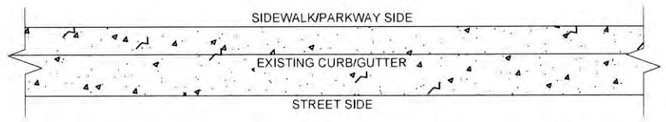
REVISIONS

SHEET NUMBER:
SWF-6

NOTES:

1. ANY AND ALL DAMAGE TO EXISTING POLE DUE TO CONSTRUCTION & INSTALLATION OF THIS APPLICATION SHALL BE REPAIRED AT THE COST OF THE CONTRACTOR
2. CONTRACTOR SHALL RESTORE OR REPAIR ANY DAMAGED AREAS CAUSED BY CONSTRUCTION TO ORIGINAL OR BETTER CONDITION
3. FIBER DESIGN BY OTHERS





1 OVERHEAD POLE DETAIL
SCALE: N.T.S.

ENGINEER:
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A NETWORK LINES COMPANY
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REVISIONS

SHEET NUMBER
SWF-7

CONDUCTOR	COLOR CODE
POSITIVE	RED
NEGATIVE	BLACK

CONDUCTOR	COLOR CODE
POSITIVE	BLACK
NEUTRAL	

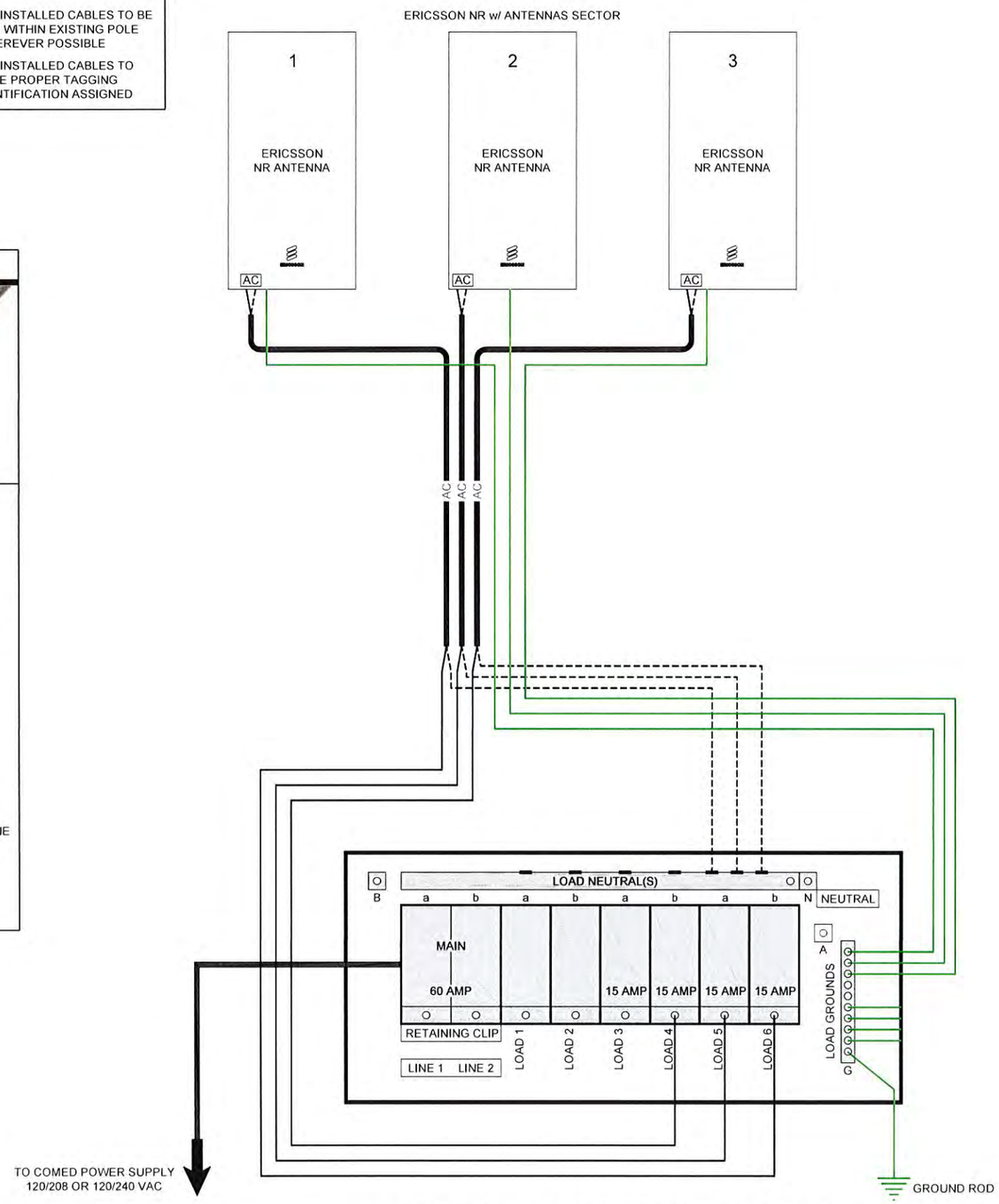
CABLE TYPE	COLOR CODE
GROUND CABLE	GREEN

NOTES:

1. ALL INSTALLED CABLES TO BE RUN WITHIN EXISTING POLE WHEREVER POSSIBLE
2. ALL INSTALLED CABLES TO HAVE PROPER TAGGING IDENTIFICATION ASSIGNED

12/2 SOOW SPECIFICATIONS:

AWG SIZE: 12
NO. OF CONDUCTORS: 2
CONDUCTOR STRANDING: 65/30
NO. OF STRANDS: 65
STRAND SIZE: 30
NOMINAL INSULATION THICKNESS (in): 0.045
JACKET THICKNESS (in): 0.090
NOMINAL O.D. OF CABLE (in): 0.570
AMPS: 25
APPROXIMATE LBS/MFT: 195
UL STYLE: SOOW
CSA TYPE: SOOW
VOLTAGE: 600
MAXIMUM TEMPERATURE: 90°C
CONDUCTOR MATERIAL: BARE COPPER
INSUL. MATERIAL: ETHYLENE PROPYLENE DIENE MONOMER RUBBER (EPDM)
JACKET MATERIAL: CHLORINATED POLYETHYLENE (CPE)
JACKET COLOR: BLACK



1 BREAKER PANEL W/ MAIN DISCONNECT SCHEMATIC
SCALE: N.T.S.

LOAD CENTER EQUIPMENT SCHEDULE

EQUIPMENT	RATING	PART NO.
LOAD CENTER BOX	N/A	QC6-12L-100RB
RETAINING CLIP	N/A	PK2MB
MAIN BREAKER	60 AMP	Q0260
INDIVIDUAL BREAKER	15 AMP	Q0115

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HUB:
CH 55TH&LAGRANGE_HD

SCU:	PSLOC:
507723	539562

PROJECT NUMBER:
2211-005-U02-N052

DRAWN BY:	DATE DRAWN:
JCS	04/27/2022

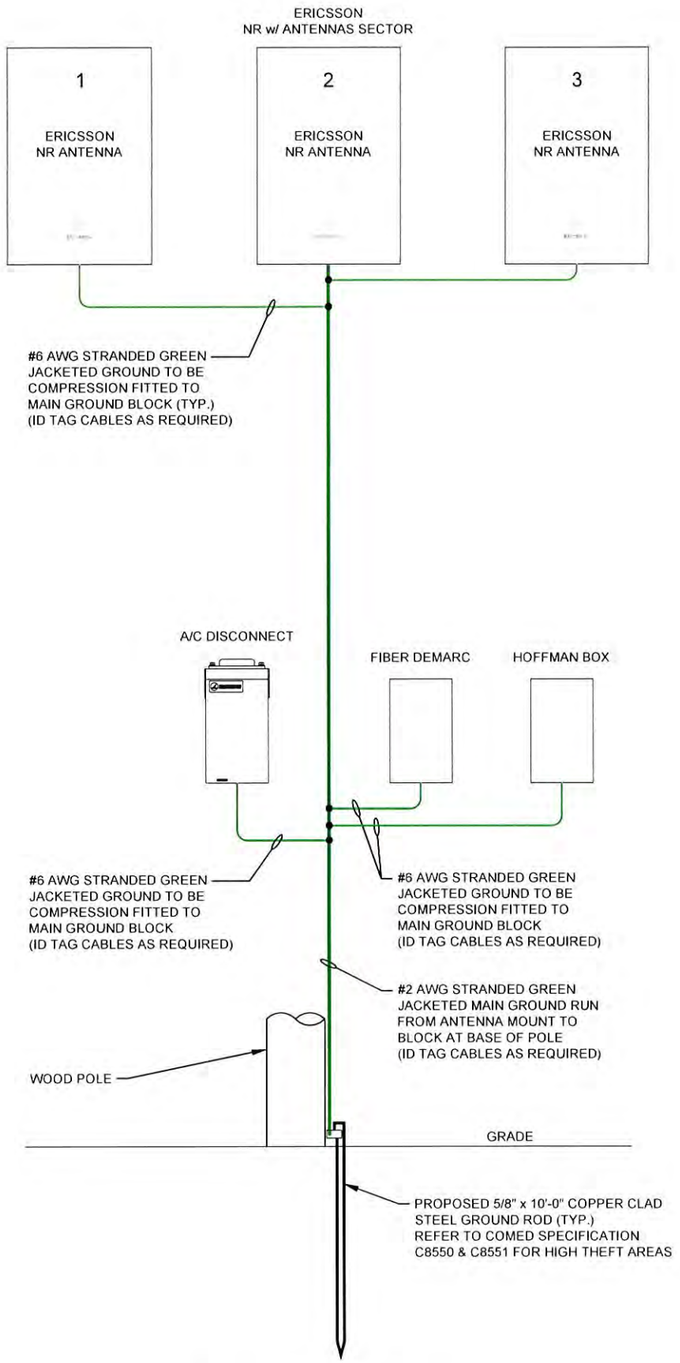
NO.	DATE	DESCRIPTION	BY
	06/14/22	PERMIT	JCS

REVISIONS

SHEET NUMBER
SWF-8

NOTES:

1. GROUNDING RISER FOR DIAGRAMMATIC PURPOSES ONLY. SEE ELEVATION DRAWINGS FOR ACTUAL EQUIPMENT AND ANTENNA LOCATIONS.
2. ALL GROUNDING CONDUCTORS TO BE PROTECTED FROM TAMPERING.



1 GROUNDING RISER DIAGRAM
SCALE: N.T.S.

GROUNDING LEGEND:

- ▭ MECHANICAL CONNECTION
- ● COMPRESSION CONNECTION

CABLE TYPE	COLOR CODE
GROUND CABLE	GREEN

ENGINEER:
CCSI NETWORKS
A NETWORK CONNECTION COMPANY
5101 THATCHER RD.
DOWNERS GROVE, IL 60515
OFFICE 630.572.9999 • FAX 630.572.9998

OWNER:
CROWN CASTLE
CROWN CASTLE FIBER
7220 N. SAM HOUSTON PARKWAY WEST
SUITE 500
HOUSTON, TX 77604

CONTRACTOR:
TBD

TITLE:
PROPOSED
SMALL CELL NODE

55TH ST & S MONROE ST SC
HINSDALE,
DuPAGE, IL 60521

CROWN CASTLE ID:	CTRL_HINSDALEA_52
HUB:	CH 55TH&LAGRANGE_HD
SCU: 507723	PSLOC: 539562
PROJECT NUMBER:	2211-005-U02-N052
DRAWN BY: JCS	DATE DRAWN: 04/27/2022

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REVISIONS

SHEET NUMBER
SWF-9

REVISES STANDARD DATED 11-18-11
COMPATIBLE UNITS AVAILABLE IN PASSPORT

6-28-13
C7526
PAGE 1 OF 3

COMMUNICATIONS ANTENNA OPERATED BY OTHERS

INSTALLED ON

34kV AND BELOW SYSTEMS

ANTENNA INSTALLATION

C7526.A ANTENNA INSTALLATION

ITEM	CAT ID DESCRIPTION TABLE-1		CAT ID	UNIT	QUANTITY .A
A	**WEDGE CONNECTORS**	**C7724. ___** (POWER SUPPLY CABLE - SEC)			1
B	**WEDGE CONNECTORS**	**C7724. ___** (POWER SUPPLY CABLE - NEUT)			1
C	**GROUNDING INSTALLATION**	**C8550. ___** (3)			1
D	CONNECTOR, COMPRESSION, #2 SOL - 2 STR RUN TO 8 SOL - 4 STR TA	(3)	0000368002	EA	1
E	WIRE,COPPER, CONTROL & INSTRUMENT, WEATHER RESISTANT, #4, SOLI	(3)	0000356408	FT	5
F	ANTENNA AND ALL RELATED HARDWARE AND CABLES	* (2)			1
G	POWER SUPPLY AND ALL RELATED HARDWARE AND CABLES	* (2)			1

* (ITEM PROVIDED BY THE COMM CO.)

NOTES:

APPLICATION

- THIS STANDARD SHALL BE USED TO INSTALL NON ComEd COMMUNICATION ANTENNAS AND A SECONDARY SERVICE CONNECTION TO A POWER SUPPLY CABINET.
- A QUALIFIED ELECTRICAL CONTRACTOR APPROVED BY ComEd SHALL UNDERTAKE THE INSTALLATION OF THE COMMUNICATION ANTENNA IN THE ComEd SUPPLY SPACE. CONTRACTORS INSTALLING ONLY THE POWER SUPPLY CABINET IN THE COMMUNICATION SPACE, ARE NOT REQUIRED TO BE ComEd APPROVED. INSTALLATION SHALL BE AT CUSTOMER'S EXPENSE.
- CONTACT ANTENNA OWNER 30 DAYS BEFORE DISCONNECTING OR MOVING AN EXISTING WIRELESS ANTENNA. FOR CONTACT INFORMATION REFER TO LABEL AFFIXED TO THE BOTTOM OF THE POWER SUPPLY CABINET.

SUPPLEMENTARY MATERIAL

(1) SPECIFY BY OTHER CONSTRUCTION STANDARD.

(2) ANTENNA, ANTENNA MOUNTING BRACKET, POWER SUPPLY, POWER SUPPLY MOUNTING BRACKET AND INTERCONNECTING CABLES ARE PROVIDED BY THE COMM CO.

(3) AT LOCATIONS WITH AN EXISTING POLE GROUND, BOND THE ANTENNA BRACKET AND POWER SUPPLY CABINET TO EXISTING GROUND LEAD AS FOLLOWS:
- OMIT ITEM "C"
- USE ITEMS "D" AND "E" TO CONNECT POWER SUPPLY CABINET TO EXISTING POLE GROUND LEAD.
- ADD ONE ADDITIONAL COMPRESSION CONNECTOR (ITEM "D") AND ADEQUATE QUANTITY OF #4 COPPER WIRE (ITEM "E") TO CONNECT ANTENNA MOUNTING BRACKET TO EXISTING POLE GROUND LEAD.

INFORMATION

11 THE ANTENNA AND POWER SUPPLY SHALL NOT BE INSTALLED ON POLES DESIGNATED BY ComEd AS AN EQUIPMENT POLE OR WHERE EXISTING COMMUNICATION CABINETS WILL CONFLICT.

EQUIPMENT POLES ARE DEFINED AS HAVING THE FOLLOWING ComEd EQUIPMENT: CLUSTER MOUNTED TRANSFORMERS WITH BAND TYPE BRACKETS THAT WRAP AROUND ENTIRE POLE (REFER TO C8062 AS AN EXAMPLE), RECLOSERS, CAPACITORS, REGULATORS, GANG OPERATED SWITCHES, CABLE RISERS, OR CONTROL CABINETS.

ANTENNA AND POWER SUPPLY SHALL NOT BE INSTALLED ONTO POLES WITH STATIC WIRE ATTACHMENTS, ONTO EXISTING FIBERGLASS POLE TOP EXTENSIONS, OR ONTO POLES WHERE THEY PRESENT AN UNUSUAL CLIMBING HAZARD.

ALL CABINETS MUST BE INSTALLED WITH THRU-BOLTS ON SAME SIDE OF POLE TO MAINTAIN ABILITY TO CLIMB POLE WHEN REQUIRED. BAND-TYPE ATTACHMENTS SHALL NOT BE USED.

(12) MAINTAIN THE FOLLOWING CLEARANCES IN ANY DIRECTION BETWEEN AN ANTENNA IN THE ComEd SUPPLY SPACE AND ANY ENERGIZED LIVE PART.

0-750V - PHASE TO PHASE - 3 INCHES
4KV AND 12KV - PHASE TO PHASE - 8 INCHES
34KV - PHASE TO PHASE - 17 INCHES

REFERENCE - NESC RULE 235I2.

MODIFY EXISTING CONSTRUCTION WHEN NECESSARY TO OBTAIN CLEARANCE BETWEEN PHASE CONDUCTOR AND ANTENNA MOUNTING BRACKET:

FOR THREE PHASE CONSTRUCTION WHEN EXISTING CENTER PHASE CONDUCTOR IS INSTALLED ON A POLE TOP PIN, INSTALL AN INSULATOR AND A PIN ON AN 8 FOOT OR 10 FOOT LINE ARM, AND MOVE PHASE CONDUCTOR FROM POLE TOP PIN TO INSULATOR ON ARM. SPECIFY CONDUCTOR TIES AS REQUIRED. REMOVE POLE TOP PIN AS NECESSARY. INSTALL ANTENNA MOUNTING BRACKET ON OPPOSITE SIDE OF POLE AS CENTER PHASE CONDUCTOR.

FOR EXISTING SINGLE PHASE CONSTRUCTION ON POLE TOP PIN, INSTALL A 40 INCH ARM AND INSULATOR PER C7432.C AND MOVE PHASE CONDUCTOR FROM POLE TOP PIN TO INSULATOR ON ARM. REMOVE POLE TOP PIN AS NECESSARY.

NO MODIFICATIONS ARE REQUIRED WHEN EXISTING CENTER PHASE CONDUCTOR IS INSTALLED ON INSULATOR ON ARM. INSTALL ANTENNA MOUNTING BRACKET ON OPPOSITE SIDE OF POLE AS CENTER PHASE CONDUCTOR.

13 ANTENNA OWNER IS RESPONSIBLE FOR PERFORMING POLE LOAD CALCULATIONS AND DETERMINING IF A GIVEN STRUCTURE IS ADEQUATE FOR THE ADDITIONAL LOAD ADDED BY ANY SUCH INSTALLATION.

14 ANTENNA DESIGN MUST LIMIT RADIATION LEVELS, OR PROVIDE MEANS OF DE-ENERGIZATION TO ALLOW ComEd PERSONNEL TO SAFELY WORK ON THEIR FACILITIES. REFERENCE - NESC RULE 420Q.

ACAD

ComEd SYSTEM STANDARD

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C7526
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(16) ALL VERTICAL RUNS OF COMMUNICATION CONDUCTORS PASSING THROUGH THE ComEd SUPPLY SPACE SHALL BE INSTALLED AS FOLLOWS:

- COMMUNICATION CABLES THAT ARE METAL SHEATHED MUST HAVE A NON-METALLIC COVERING FROM 40 INCHES ABOVE TO 6 FEET BELOW THE SUPPLY CONDUCTORS.
- INSULATED COMMUNICATION CONDUCTORS MUST HAVE A NON-METALLIC COVERING FROM 40 INCHES ABOVE TO 6 FEET BELOW THE SUPPLY CONDUCTORS.
- COMMUNICATION GROUNDING CONDUCTORS MUST HAVE A NON-METALLIC COVERING FROM 40 INCHES ABOVE TO 6 FEET BELOW THE SUPPLY CONDUCTORS.
- COMMUNICATION CONDUCTORS MUST MAINTAIN A CLEARANCE TO THROUGH-BOLTS AND OTHER METAL OBJECTS EQUAL TO 1/8 OF THE POLE CIRCUMFERENCE, BUT NOT LESS THAN 2 INCHES. THIS CLEARANCE CAN BE REDUCED TO 1 INCH FOR EFFECTIVELY GROUNDED CONDUCTORS.

REFERENCE - NESC RULE 239H.

(17) ANTENNA SHALL UTILIZE A WOOD OR FIBERGLASS MOUNTING BRACKET ATTACHED AT THE TOP OF POLE AS SHOWN. MAXIMUM HEIGHT OF ANTENNA AND MOUNTING BRACKET NOT TO EXCEED 8 FEET ABOVE TOP OF POLE.

WHEN POLE SELECTED FOR ANTENNA INSTALLATION NEEDS REPLACEMENT, A TALLER POLE MAY BE INSTALLED IN LIEU OF A SHORTER NEW POLE WITH AN ANTENNA MOUNTING BRACKET. HEIGHT OF NEW POLE NOT TO EXCEED HEIGHT OF PREVIOUS POLE PLUS HEIGHT OF MOUNTING BRACKET. ComEd TO ATTACH TO TALLER NEW POLE AT SAME ELEVATION AS PREVIOUS SHORTER POLE, LEAVING TOP OF NEW POLE FOR 3rd PARTY ANTENNA INSTALLATION.

18 ALL THIRD PARTY EQUIPMENT ON POLES SHALL BE CONSTRUCTED AND MAINTAINED TO PROVIDE AN UNOBSTRUCTED VERTICAL CLIMBING SPACE WITH MINIMUM HORIZONTAL DIMENSIONS OF 30 INCHES SQUARE FOR VOLTAGES 0-15kV, AND 40 INCHES SQUARE FOR VOLTAGES 15kV-38kV. CLIMBING SPACE OF THESE DIMENSIONS SHALL BE CONTINUED VERTICALLY 40 INCHES ABOVE AND BELOW THE LIMITING EQUIPMENT.

REFERENCE - NESC RULE 236.

19 ONLY POLES THAT ARE ComEd TRUCK ACCESSIBLE SHALL BE SELECTED FOR THIRD PARTY ANTENNA ATTACHMENTS.

(20) THE FIBER STRAND MOUNT ANTENNA AND ASSOCIATED POLE MOUNTED DISCONNECT SWITCH SHALL NOT BE INSTALLED ONTO POLES HAVING THE FOLLOWING ComEd EQUIPMENT: RECLOSERS, CAPACITORS, REGULATORS, GANG OPERATED SWITCHES, PRIMARY VOLTAGE CABLE RISERS, CONTROL CABINETS, STREET LIGHT ONLY POLES, AND ONTO POLES WHERE THEY PRESENT AN UNUSUAL CLIMBING HAZARD.

ACAD

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ComEd SYSTEM STANDARD

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DuPAGE, IL 60521

CROWN CASTLE ID:
CTRL_HINSDALEA_52

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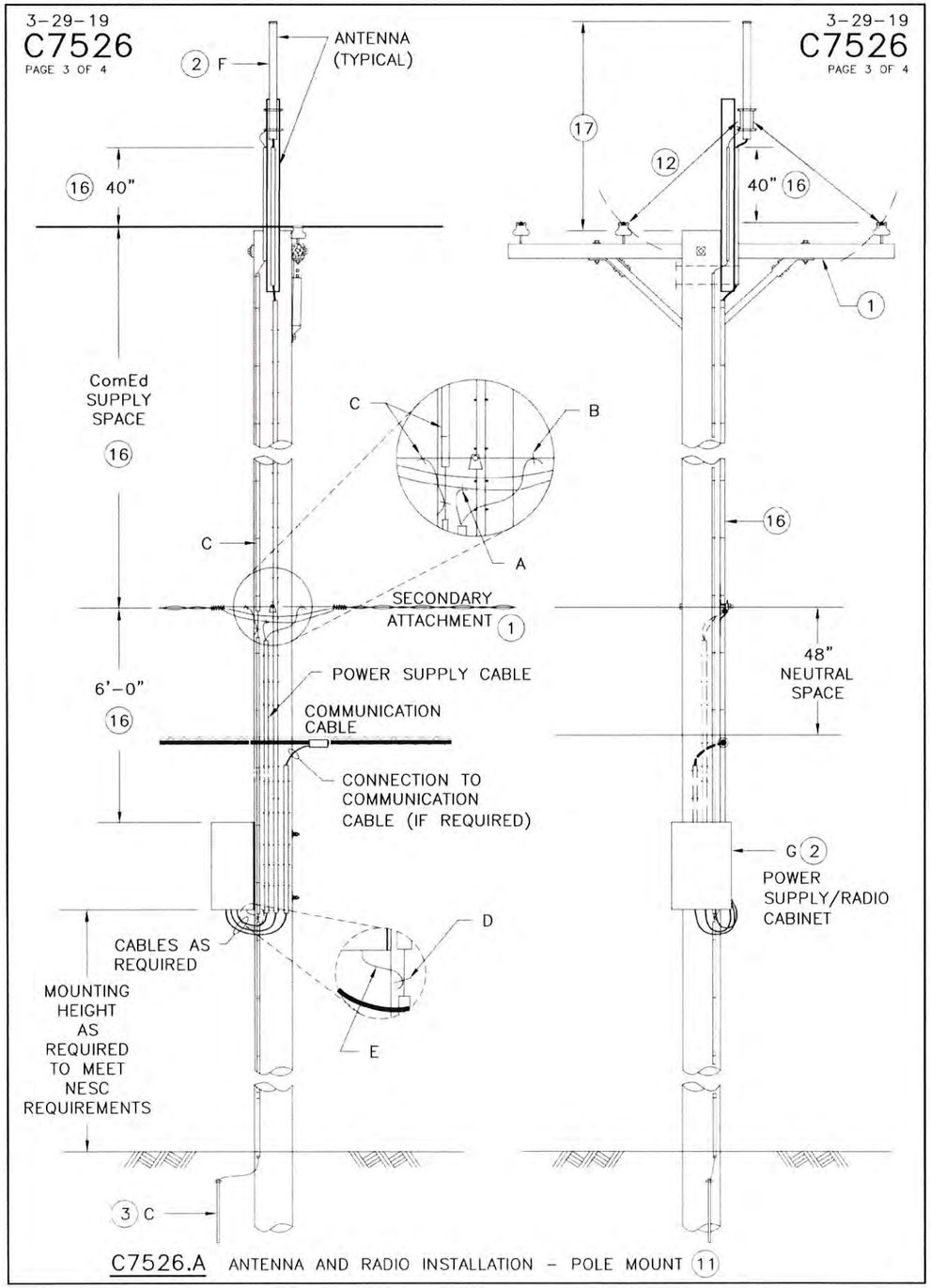
SHEET NUMBER:
SWF-10



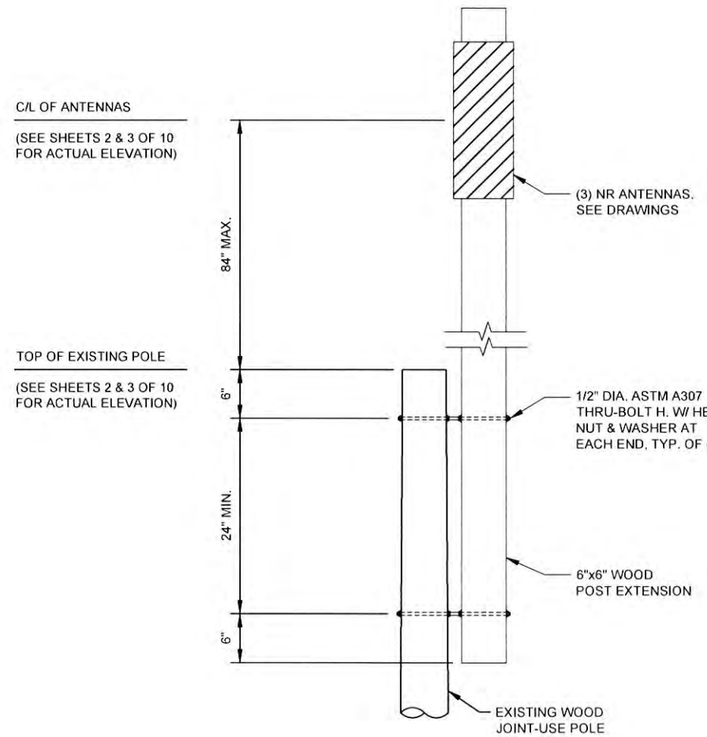
C7526.A ANTENNA AND RADIO INSTALLATION - POLE MOUNT (11)

ACAD

ComEd SYSTEM STANDARD

STRUCTURAL NOTES:

1. ALL WOOD LUMBER SHALL BE SOUTHERN YELLOW PINE OR EQUIVALENT. NO WITH A MINIMUM FB=1,000 PSI. LUMBER SHALL CONFORM TO THE LATEST NFPA SPECIFICATIONS.
2. ALL WOOD SHALL BE TREATED WOOD AS PER THE AMERICAN WOOD PROTECTION ASSOCIATION (AWPA). DRILLED HOLES AND CUT ENDS SHALL BE BE TREATED WITH A PRESERVATIVE. COPPER NAPHTHENATE OR OXINE COPPER OR EQUIVALENT.
3. ALL THRU-BOLTS, HEX NUTS & WASHERS SHALL BE HOT-DIP GALVANIZED AND CONFORM TO ASTM A307 SPECIFICATIONS.



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CROWN CASTLE ID:	CTRL_HINSDALEA_52
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REVISIONS

SHEET NUMBER
SWF-11

GENERAL NOTES:

1. THESE NOTES SHALL BE CONSIDERED A PART OF THE WRITTEN SPECIFICATIONS.
2. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED IN THE CONTRACT DOCUMENTS.
3. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTOR(S) SHALL VISIT THE JOB SITE(S) AND BE RESPONSIBLE FOR ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED PER THE CONTRACT DOCUMENTS. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE IMPLEMENTATION CONSTRUCTION/PROJECT MANAGER AND ENGINEER/CONSTRUCTION/PROJECT MANAGER.
4. THE CONTRACTOR SHALL RECEIVE WRITTEN AUTHORIZATION TO PROCEED ON ANY WORK NOT CLEARLY DEFINED OR IDENTIFIED IN THE CONSTRUCTION DOCUMENTS BEFORE STARTING ANY WORK.
5. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES, INCLUDING APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS.
6. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS. IF THESE RECOMMENDATIONS ARE IN CONFLICT WITH THE CONTRACT DOCUMENTS AND/OR APPLICABLE CODES OR REGULATIONS, REVIEW THE CONFLICT FOR DIRECTION WITH THE IMPLEMENTATION CONSTRUCTION/PROJECT MANAGER AND ENGINEER/CONSTRUCTION/PROJECT MANAGER PRIOR TO PROCEEDING.
7. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATION OF ALL PORTIONS OF THE WORK UNDER THE CONTRACT INCLUDING CONTACT AND COORDINATION WITH THE IMPLEMENTATION CONSTRUCTION/PROJECT MANAGER AND WITH THE AUTHORIZED REPRESENTATIVE OF ANY OUTSIDE POLE OR PROPERTY OWNER.
8. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, PAVING, CURBS, SIDEWALKS, ADA RAMPS, VEGETATION, GALVANIZED SURFACE OR OTHER EXISTING ELEMENTS AND UPON COMPLETION OF THE WORK, REPAIR ANY DAMAGE THAT OCCURRED DURING CONSTRUCTION TO THE SATISFACTION OF MUNICIPALITY OR PROPERTY OWNER.
9. KEEP THE GENERAL AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH, AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. LEAVE PREMISES IN CLEAN CONDITION DAILY.
10. PLANS ARE INTENDED TO BE DIAGRAMMATIC ONLY AND SHOULD NOT BE SCALED UNLESS OTHERWISE NOTED. RELY ONLY ON ANNOTATED DIMENSIONS AND REQUEST INFORMATION IF ADDITIONAL DIMENSIONS ARE REQUIRED.
11. THE EXISTENCE AND LOCATION OF UTILITIES AND OTHER AGENCY'S FACILITIES ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. OTHER FACILITIES MAY EXIST BEYOND WHAT IS NOTED. CONTRACTOR SHALL VERIFY LOCATIONS PRIOR TO START OF CONSTRUCTION AND USE EXTREME CARE AND PROTECTIVE MEASURES TO PREVENT DAMAGE TO THESE FACILITIES. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF UTILITIES OR OTHER AGENCY'S FACILITIES WITHIN THE LIMITS OF THE WORK, WHETHER THEY ARE IDENTIFIED IN THE CONTRACT DOCUMENTS OR NOT.
12. ALL MOUNTING HARDWARE SUCH AS BOLTS, NUTS, LAG SCREWS, CLEVIS, CONDUIT STRAPS, STAPLES, (ANYTHING EXPOSED AND CONNECTING EQUIPMENT TO THE POLE) SHALL BE HOT DIPPED GALVANIZED, UNLESS OTHERWISE STATED. ANY DAMAGE CAUSED TO PAINTED AREAS SHALL BE TOUCHED-UP AS REQUIRED.

WIRELESS CARRIER CONSTRUCTION NOTES:

1. CONTRACTOR IS TO FOLLOW MOST CURRENT WIRELESS CARRIER NADV/STANDARDS DOCUMENTS PROVIDED TO COMPLETE THIS INSTALLATION.
2. CONTRACTOR TO REFER TO THE MOST CURRENT WIRELESS CARRIER NADV FOR APPROVED COAXIAL PROVIDERS AND LINE SWEEP TESTING PROCEDURES.
3. CONTRACTOR SHALL INCLUDE AT LEAST ONE "ANRITSU" CERTIFIED LINE SWEEP TECHNICIAN ON SITE DURING ANY WIRELESS CARRIER JOB RELATED TO INSTALLATION OR MAINTENANCE OF COAXIAL CABLE, ANTENNAS, TT-LNA, RF CONNECTORS, JUMPERS, OR DIPLEX FILTERS.
4. CONTRACTOR SHALL COMPLETE WIRELESS CARRIER PROVIDED "SMALL CELL SWEEP REPORT" WITH ALL INFORMATION FILLED IN ACCURATELY AND COMPLETELY.
5. CONTRACTOR TO REFER TO THE MOST CURRENT WIRELESS CARRIER NADV FOR APPROVED "PIM" TEST EQUIPMENT AND GUIDELINES.
6. CONTRACTOR IS TO USE BATTERY POWERED "PIM" EQUIPMENT TO VALIDATE THE FINAL LOCATION OF THE COAXIAL JUMPER AND ANTENNA ARE FREE OF INTERNAL AND EXTERNAL "PIM" SOURCES.
7. CONTRACTOR SHALL PROVIDE AT LEAST ONE TECHNICAL LEAD THAT IS CERTIFIED AND PROFICIENT IN EXECUTING, INTERPRETING, AND RECORDING "PIM" MEASUREMENTS.
8. ALL CABLE AND CABLE EQUIPMENT IDENTIFICATION TAGGING SHALL BE PLASTIC TAGS WITH WAX STRINGS FOR "FIBER" AND "POWER" WITHIN THE QUAZITE ENCLOSURE AND ON THE LIGHT POLE, AND SHALL COMPLY WITH THE LATEST WIRELESS CARRIER STANDARDS.
9. THE LOGO PLACARD ON THE COVER OF THE QUAZITE ENCLOSURE SHALL CLEARLY IDENTIFY OWNER.

ROW POWER CONSTRUCTION NOTES:

1. 120/240 POWER OR 120/208 SECONDARY REQUIRED FOR 3-WIRE SERVICE.
2. SECONDARY POWER SHALL BE DEPENDANT ON CURRENT AVAILABILITY(@ 3% DROP MIN. 60 AMPS), OR ESTABLISHED BY LOCAL POWER COMPANY DURING ACTUAL POWER WALK.
3. POWER ROUTE, WIRE, AND RACEWAY SIZE WILL BE DETERMINED DURING UNDERGROUND OR OVERHEAD ENGINEERING PROCESS.
4. GENERAL CONTRACTOR TO REMOVE/CLEAN ALL DEBRIS, NAILS, STAPLES, OR NON-USED VERTICALS OFF THE POLE.
5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH MUNICIPAL, COUNTY, STATE, AND FEDERAL REGULATIONS.
6. CALL CHICAGO DIGGERS HOTLINE AT 1-312-744-7000 48 HOURS PRIOR TO EXCAVATING.
7. ALL LANDSCAPING TO BE RESTORED TO ORIGINAL CONDITION OR BETTER.
8. ALL EQUIPMENT TO BE BONDED AS REQUIRED BY LOCAL CODES AND CLIENT REQUIREMENTS.
9. ALLOW 3' CLEARANCE AT METERING CABINET DOOR OPENING (IF REQUIRED).

STANDARD GROUNDING NOTES:

1. GROUND TESTED AT 5 OHMS OR LESS.
2. 5/8" x 10' OR 12' ROD, CAD WELD BELOW GRADE.
3. MINIMUM # 6 GROUND AND BOND WIRE.
4. GROUNDS ROD TO BE PLACED (1) WITHIN NEW POLE FOUNDATION .
5. ALL GROUND FASTENERS AND RELATED HARDWARE SHALL BE OF STAINLESS STEEL AND DILECTRIC GREASE SHALL BE USED AT ALL CONNECTIONS. ALL GROUNDING MUST MEET OR EXCEED NESC AND WIRELESS CARRIER STANDARDS.

PROPOSED CONCEALMENT NOTES:

ALL PROPOSED ITEMS ARE TO BE PAINTED TO MATCH THE POLE.

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TITLE:
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DuPAGE, IL 60521

CROWN CASTLE ID:	CTRL_HINSDALEA_52
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NO.	DATE	DESCRIPTION	BY
	06/14/22	PERMIT	JCS

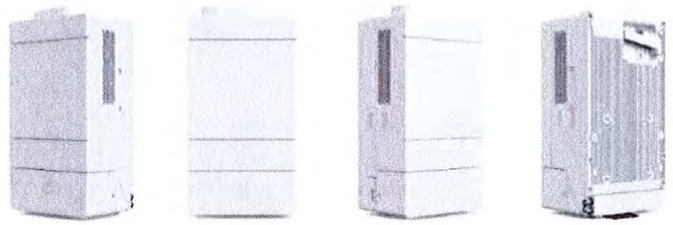
REVISIONS

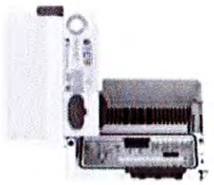
SHEET NUMBER
SWF-12

PROPOSED CONCEALMENT NOTES:

ALL PROPOSED ITEMS ARE TO BE PAINTED TO MATCH THE POLE.

Streetmacro 6705 Mechanical

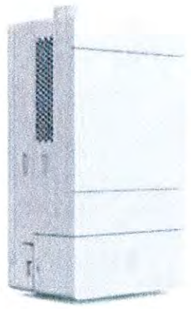


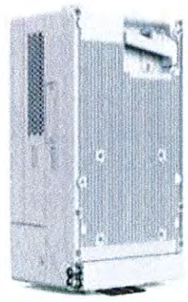


SM 6705	Height	Width	Depth	Weight
without protruding items	366 mm 14.4 In	200 mm 7.9 In	150 mm 5.9 In	~31 lbs (~13 Kg)
with protruding items including GNSS antenna	409 mm 16.2 In	204 mm 8.1 In	154 mm 6.1 In	

Streetmacro 6705

Spectrum	28GHz (n261/257) 39 GHz (n260) 24GHz (n258)
IBW	Full band
Total Carrier BW	800 MHz, continuous/non-continuous carriers
EIRP	59 dBm (CM1, 800MHz config), 62dBm (CM2, 400MHz)
EIS	-116/-113 dBm (CM1, 800MHz config)
Layers:	2 @ 800 MHz, 4 @ 400MHz
Modulation	64/64 (256) QAM UL/DL
Service Angular Range:	± 60°, ±15°
Total Antenna BW	1600 MHz
Throughput	~ 5 Gbps DL/ 1 Gbps UL
Synchronization	1588v2, GNSS
Power Consumption	<350 W typical, <500 W Max
Weight	~ 13 kg
Dimensions	366x150x200 mm wo protrusions 409x154x204 mm w protrusions (eg GNSS)
Operational conditions	-40 to +55 degrees
Cooling	Active
Power	AC, 100-250 V
IP Class	IP 65





EQUIPMENT SPECIFICATIONS SUPPLEMENT
INDEX OF DRAWINGS:

SHEET	TITLE
SWF-S.1	6705 ERICSSON NR ANTENNA SPECIFICATIONS

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SWF-S.1

Specifications and Drawing Plans

(includes photographs of site location)

(equipment types and model numbers)

(next page)

(SECOND IDENTICAL SET)

CROWN CASTLE

PROPOSED
SMALL CELL NODE

SCU: 507723

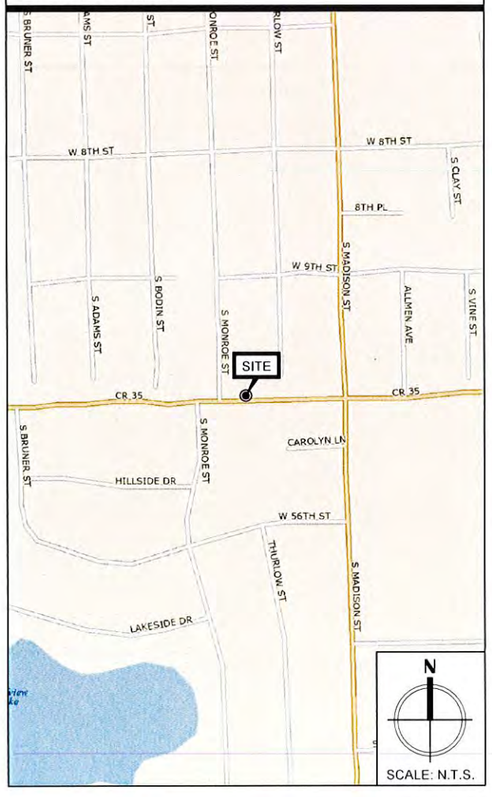
CROWN CASTLE ID: CTRL_HINSDALEA_52

PSLOC: 539562

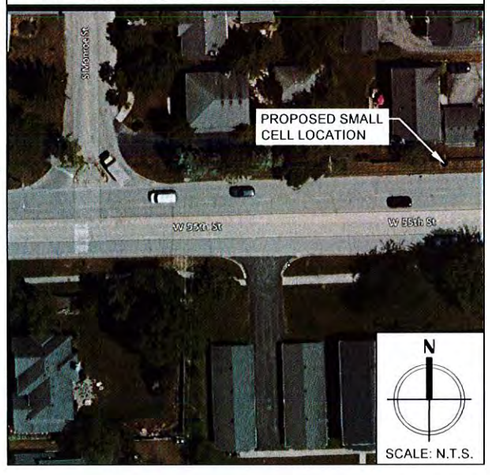
HUB:
CH 55TH&LAGRANGE_HD

SEC 14, T38N-R11E,
HINSDALE, DuPAGE COUNTY, ILLINOIS

LOCATION MAP:



PLAN VIEW (55TH ST & S MONROE ST):



INDEX OF DRAWINGS:

SHEET	TITLE
SWF-1	COVER
SWF-2	EXISTING & PROPOSED POLE IMAGE
SWF-3	TRAFFIC CONTROL - TYPICALS
SWF-4	EXISTING & PROPOSED SOUTH ELEVATION
SWF-5	EXISTING & PROPOSED EAST ELEVATION
SWF-6	WIRING DIAGRAM & EQUIPMENT DETAILS
SWF-7	OVERHEAD POLE DETAIL
SWF-8	BREAKER PANEL W/ MAIN DISCONNECT SCHEMATIC
SWF-9	GROUNDING RISER DIAGRAM
SWF-10	COMED STANDARD C7526 NOTES & SPECS
SWF-11	COMED STANDARD C7526 DIAGRAMS
SWF-12	GENERAL AND SPECIFIC PROJECT NOTES

EQUIPMENT SPECIFICATIONS SUPPLEMENT

SWF-S.1	6705 ERICSSON NR ANTENNA SPECIFICATIONS

PROJECT DESCRIPTION:

PROJECT NO: 2211-005-U02-N052

PROPOSED INSTALLATION OF SMALL CELL EQUIPMENT AND ANTENNAS ON EXISTING WOOD POLE. FIBER AND POWER CABLES VIA NEW CONDUIT (UNDER SEPERATE PERMIT SUBMISSION).

SITE COORDINATES:

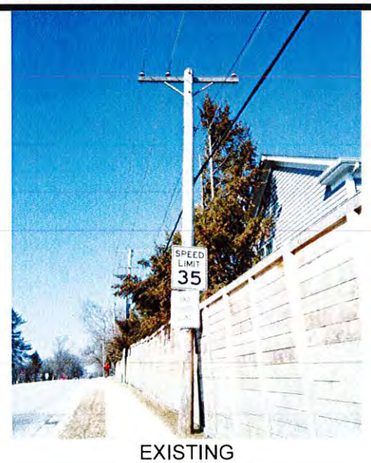
LATITUDE: N 041° 47' 20.71" (DEGREE, MINUTES, SECONDS)
N 41.78909 (DECIMAL)

LONGITUDE: W 087° 56' 16.46" (DEGREE, MINUTES, SECONDS)
W 87.93791 (DECIMAL)

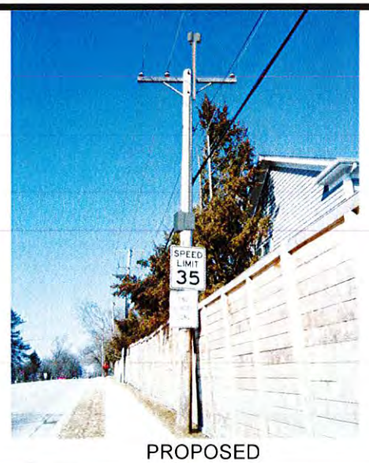
SITE ELEV.: 736.33' ± 3.0'

FAA 1A CERTIFICATION: MAY 11, 2022

POLE IMAGE (LOOKING WEST)



EXISTING



PROPOSED

ENGINEER CERTIFICATION

LICENSED PROFESSIONAL ENGINEER
OWEN L. STAMM
062-060931
STATE OF ILLINOIS

Exp 11/30/2023

811
Know what's **below.**
Call before you dig.

REQUIRES 2 BUSINESS DAYS
NOTICE BEFORE YOU EXCAVATE

ENGINEER:
CCSI NETWORKS
A NETWORK CONNEX COMPANY
5101 THATCHER RD.
DOWNERS GROVE, IL 60515
OFFICE 630.572.9999 • FAX 630.572.9998

OWNER:
CROWN CASTLE
CROWN CASTLE FIBER
7220 N. SAM HOUSTON PARKWAY WEST
SUITE 500
HOUSTON, TX 77604

CONTRACTOR:
TBD

TITLE:
PROPOSED
SMALL CELL NODE

55TH ST & S MONROE ST SC
HINSDALE,
DuPAGE, IL 60521

CROWN CASTLE ID: CTRL_HINSDALEA_52

HUB: CH 55TH&LAGRANGE_HD

SCU: 507723 | PSLOC: 539562

PROJECT NUMBER: 2211-005-U02-N052

DRAWN BY: JCS | DATE DRAWN: 04/27/2022

NO.	DATE	DESCRIPTION	BY
	06/14/22	PERMIT	JCS

REVISIONS

SHEET NUMBER
SWF-1

1 EXISTING POLE
SCALE: NONE

2 PROPOSED POLE
SCALE: NONE

ENGINEER:
CCSI NETWORKS
A NETWORKCONNEX COMPANY
5101 THATCHER RD.
DOWNERS GROVE, IL 60515
OFFICE 630.572.9999 • FAX 630.572.9998

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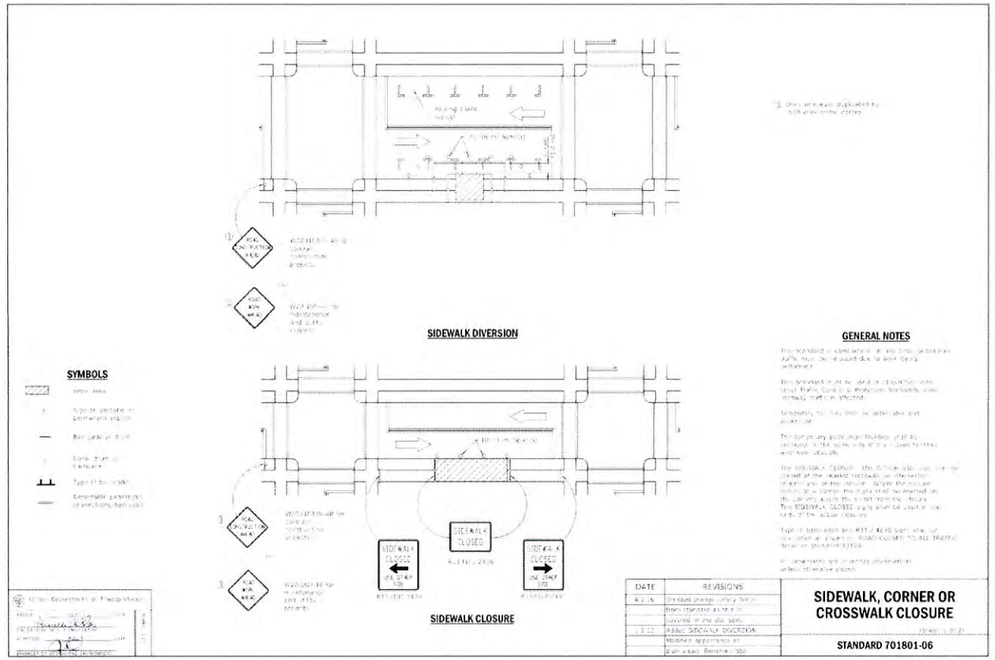
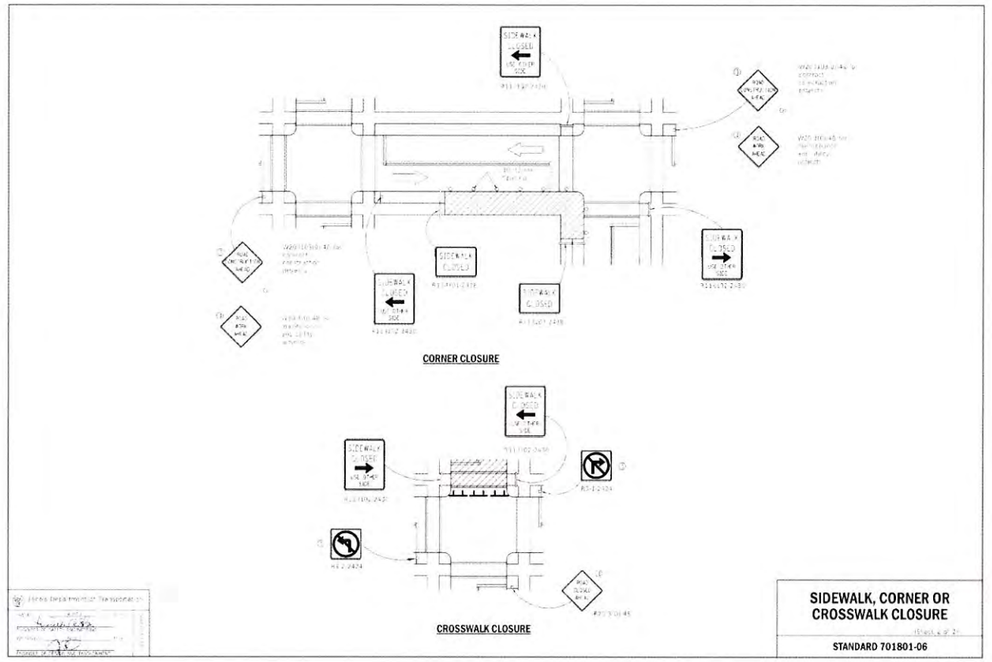
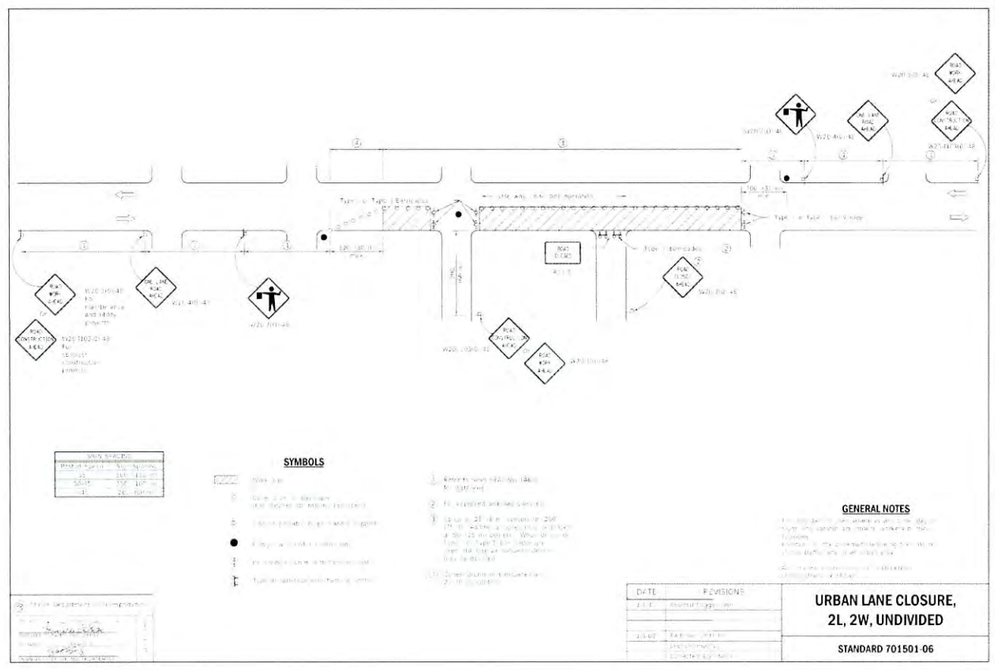
REVISIONS

SHEET NUMBER
SWF-2

TRAFFIC CONTROL - TYPICALS







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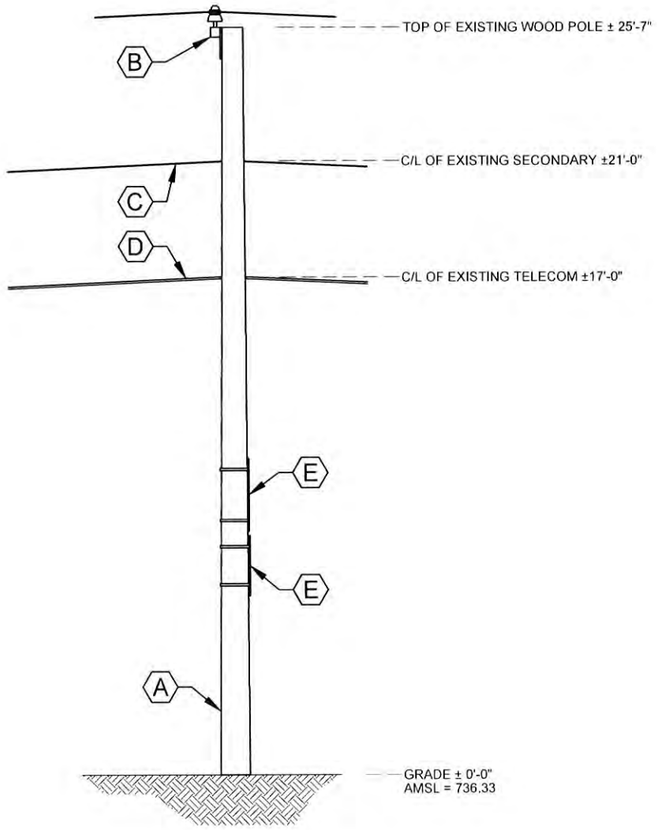
DRAWN BY: JCS	DATE DRAWN: 04/27/2022

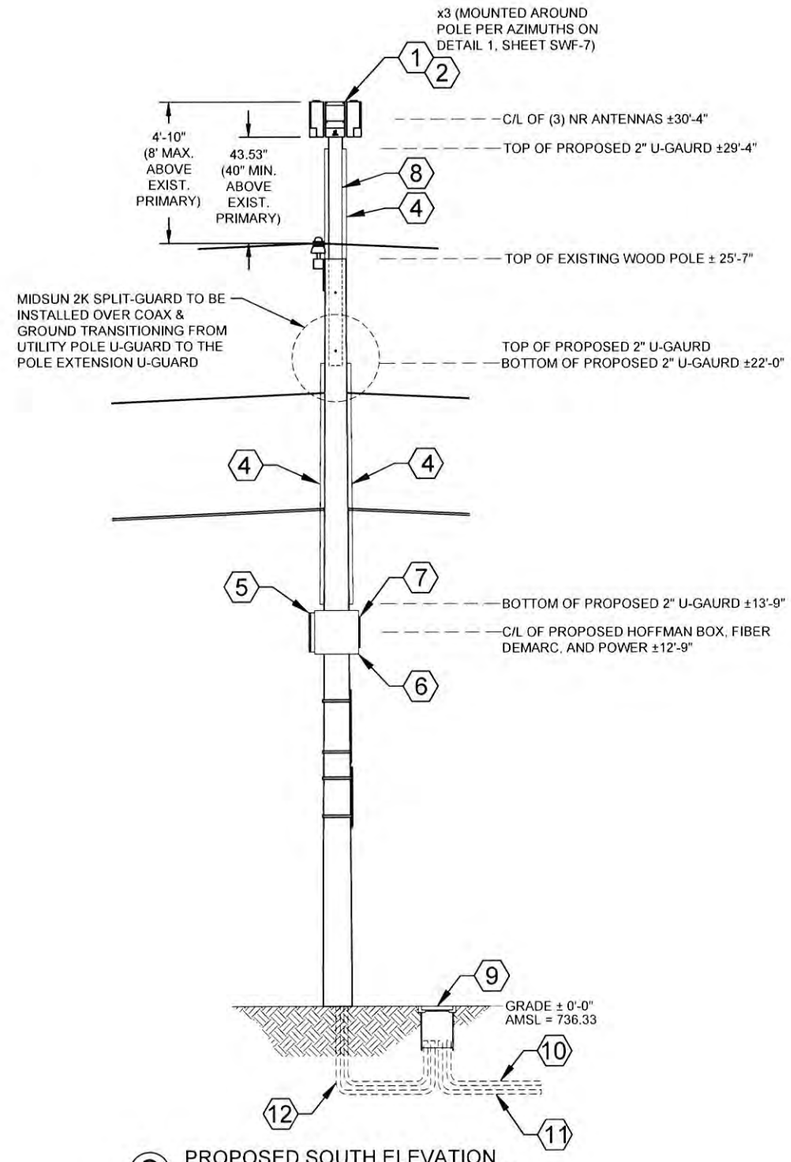
NO.	DATE	DESCRIPTION	BY
	06/14/22	PERMIT	JCS

REVISIONS

SHEET NUMBER
SWF-3



1 EXISTING SOUTH ELEVATION
SCALE: 1" = 5'-0"



2 PROPOSED SOUTH ELEVATION
SCALE: 1" = 5'-0"

PROPOSED EQUIPMENT KEY:

1. (3) ERICSSON 6705 NR RADIOS w/ ANTENNAS.
   MODEL NO. 6705
   14.40" x 7.90" x 5.90" (HxWxD) - 31.00 lbs. ea.
2. (3) AIRSCALE - HORIZONTAL RADIO MOUNT BRACKET
   PART NO. ERICSSON - AIR BRACKET
   3.9" x 7.9" x 11.8" (HxWxD) - 13.7 lbs.
3. NOT USED
4. 2" NON-METALLIC U-GAURD ATTACHMENT FOR FIBER/COAXIAL CABLES
5. HOFFMAN BOX
   PART NO. A161606 (OR EQUIVALENT)
   16.0" x 10.0" x 6.0" (HxWxD) - 13.7 lbs.
6. CHARLES FIBER DEMARC
   PART NO. CFIT-C (OR EQUIVALENT)
   18.00" x 18.00" x 6.00" (HxWxD) - 15.0 lbs.
7. AC DISCONNECT BOX
   PART NO. BA206 (OR EQUIVALENT)
   12.60" x 8.90" x 4.30" (HxWxD) - 9.70 lbs.
8. 9' WOOD POLE TOP EXTENSION
9. PROPOSED BURIED QUAZITE ENCLOSURE TO HOUSE GROUND ROD AND IN-LINE FUSES FOR SMALL CELL POWER DISCONNECT (QUAZITE COVER SHALL CORRECTLY IDENTIFY OWNER ON LID "ID PLACARD") (TO BE INSTALLED BY OTHERS)
10. (1) PROPOSED UNDERGROUND POWER CONDUIT (TO BE INSTALLED BY OTHERS)
11. (1) PROPOSED FIBER CONDUIT (TO BE INSTALLED BY OTHERS)
12. (2) PROPOSED 2" RIGID CONDUIT FOR POWER & FIBER (TO BE INSTALLED BY OTHERS)

PROPOSED RF:

RADIO	AZIMUTH		
	A	B	C
5G	0°	120°	240°

TOTALS:

TOTAL WEIGHT	172.5 LBS
TOTAL VOLUME OF EQUIPMENT	3.75 ft³

EXISTING EQUIPMENT KEY:
(EQUIPMENT TO REMAIN)

- A EXISTING COMED WOOD POLE
- B EXISTING COMED STADOFF ARM w/(3) PRIMARY POWER SUPPLY FEED ATTACHMENTS
- C EXISTING COMED SECONDARY POWER SUPPLY FEED ATTACHMENT
- D EXISTING TELECOM LINE ATTACHMENT
- E EXISTING TRAFFIC SIGNAGE

ENGINEER:
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A NETWORK COMPLEX COMPANY
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OWNER:
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CROWN CASTLE FIBER
7220 N. SAM HOUSTON PARKWAY WEST
SUITE 500
HOUSTON, TX 77604

CONTRACTOR:
TBD

TITLE:
PROPOSED
SMALL CELL NODE

55TH ST & S MONROE ST SC
HINSDALE,
DuPAGE, IL 60521

CROWN CASTLE ID:
CTRL_HINSDALEA_52

HUB:
CH 55TH&LAGRANGE_HD

SCU:	PSLOC:
507723	539562

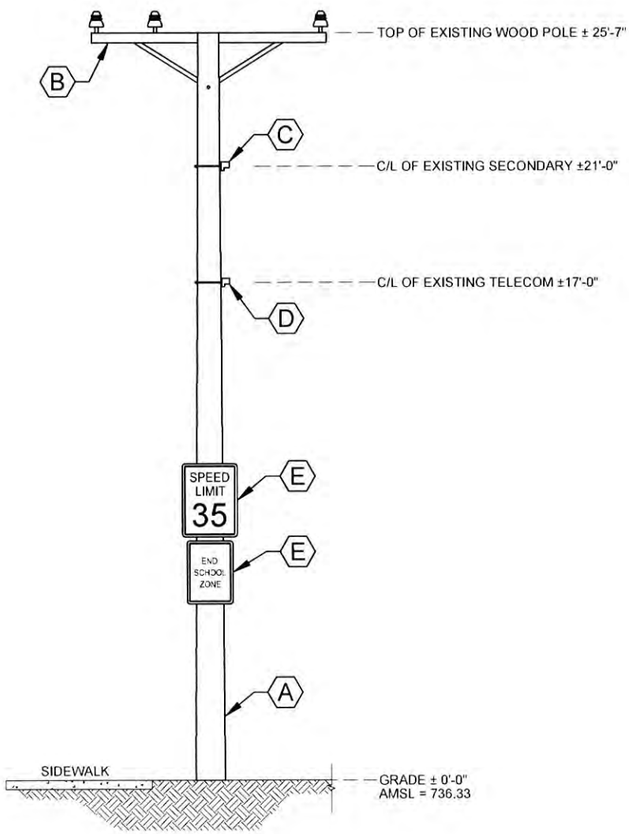
PROJECT NUMBER:
2211-005-U02-N052

DRAWN BY:	DATE DRAWN:
JCS	04/27/2022

NO.	DATE	DESCRIPTION	BY
	06/14/22	PERMIT	JCS

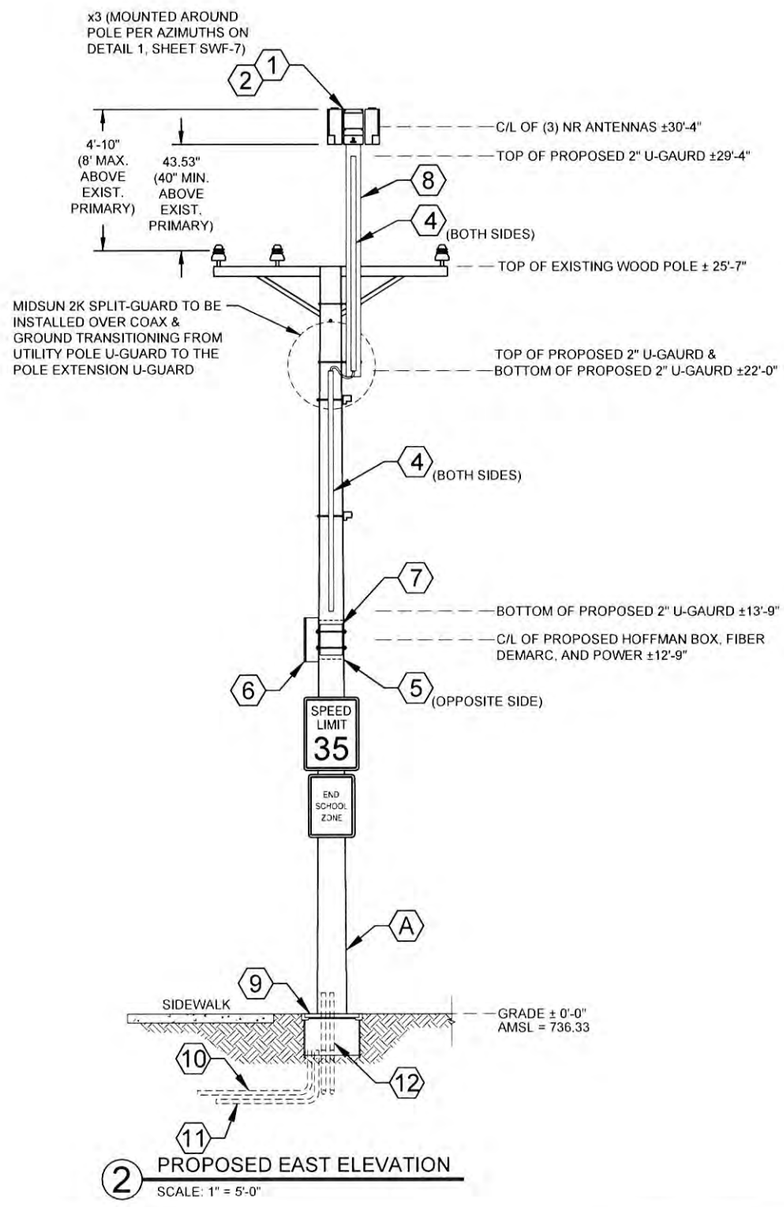
REVISIONS

SHEET NUMBER:
SWF-4



1 EXISTING EAST ELEVATION

SCALE: 1" = 5'-0"



2 PROPOSED EAST ELEVATION

SCALE: 1" = 5'-0"

PROPOSED EQUIPMENT KEY:

1. (3) ERICSSON 6705 NR RADIOS w/ ANTENNAS, MODEL NO. 6705 14.40" x 7.90" x 5.90" (HxWxD) - 31.00 lbs. ea.
2. (3) AIRSCALE - HORIZONTAL RADIO MOUNT BRACKET PART NO. ERICSSON - AIR BRACKET 3.9" x 7.9" x 11.8" (HxWxD) - 13.7 lbs.
3. NOT USED
4. 2" NON-METALLIC U-GAURD ATTACHMENT FOR FIBER/COAXIAL CABLES
5. HOFFMAN BOX PART NO. A161606 (OR EQUIVALENT) 16.0" x 10.0" x 6.0" (HxWxD) - 13.7 lbs.
6. CHARLES FIBER DEMARC PART NO. CFIT-C (OR EQUIVALENT) 18.00" x 18.00" x 6.00" (HxWxD) - 15.0 lbs.
7. AC DISCONNECT BOX PART NO. BA206 (OR EQUIVALENT) 12.60" x 8.90" x 4.30" (HxWxD) - 9.70 lbs.
8. 9' WOOD POLE TOP EXTENSION
9. PROPOSED BURIED QUAZITE ENCLOSURE TO HOUSE GROUND ROD AND IN-LINE FUSES FOR SMALL CELL POWER DISCONNECT (QUAZITE COVER SHALL CORRECTLY IDENTIFY OWNER ON LID "ID PLACARD") (TO BE INSTALLED BY OTHERS)
10. (1) PROPOSED UNDERGROUND POWER CONDUIT (TO BE INSTALLED BY OTHERS)
11. (1) PROPOSED FIBER CONDUIT (TO BE INSTALLED BY OTHERS)
12. (2) PROPOSED 2" RIGID CONDUIT FOR POWER & FIBER (TO BE INSTALLED BY OTHERS)

PROPOSED RF:

RADIO	AZIMUTH		
	A	B	C
5G	0°	120°	240°

TOTALS:

TOTAL WEIGHT	172.5 LBS
TOTAL VOLUME OF EQUIPMENT	3.75 ft³

EXISTING EQUIPMENT KEY:

(EQUIPMENT TO REMAIN)

- A EXISTING COMED WOOD POLE
- B EXISTING COMED STADOFF ARM w/(3) PRIMARY POWER SUPPLY FEED ATTACHMENTS
- C EXISTING COMED SECONDARY POWER SUPPLY FEED ATTACHMENT
- D EXISTING TELECOM LINE ATTACHMENT
- E EXISTING TRAFFIC SIGNAGE

ENGINEER:
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A NETWORK CONSTRUCTION COMPANY
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CROWN CASTLE FIBER
7220 N. SAM HOUSTON PARKWAY WEST
SUITE 500
HOUSTON, TX 77604

CONTRACTOR:
TBD

TITLE:
PROPOSED
SMALL CELL NODE

55TH ST & S MONROE ST SC
HINSDALE,
DuPAGE, IL 60521

CROWN CASTLE ID:	CTRL_HINSDALEA_52
HUB:	CH 55TH&LAGRANGE_HD
SCU: 507723	PSLOC: 539562
PROJECT NUMBER:	2211-005-U02-N052
DRAWN BY: JCS	DATE DRAWN: 04/27/2022

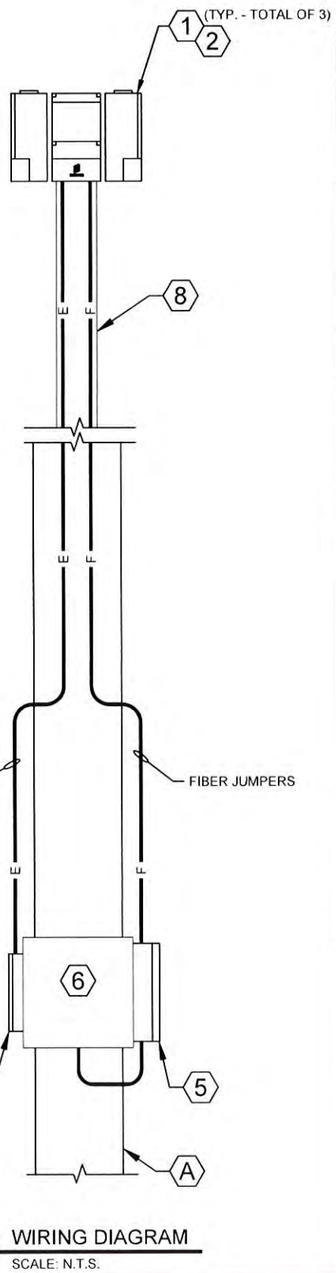
NO.	DATE	DESCRIPTION	BY
	06/14/22	PERMIT	JCS

REVISIONS

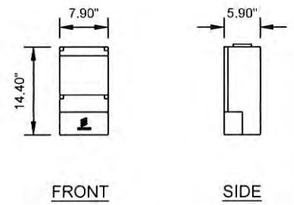
SHEET NUMBER

SWF-5

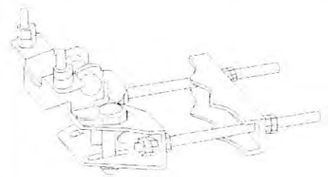
PROPOSED EQUIPMENT DETAILS



1 WIRING DIAGRAM
SCALE: N.T.S.



1 "ERICSSON" NR ANTENNA
SCALE: 1" = 2'-0"



WEIGHT: 13.7 LBS
SIZE (HxWxD): 3.9x7.9x11.8 IN.

2 "ERICSSON" AIR BRACKET
SCALE: NONE

- NOT USED
NONE

- NOT USED
NONE

- NOT USED
NONE

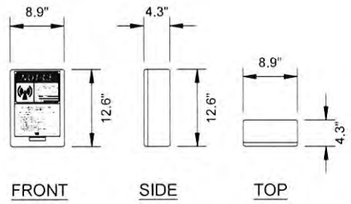
- NOT USED
NONE

P/N: A161606
WEIGHT: 13.7 LBS
SIZE (HxWxD): 16.0x10.0x6.0 IN.

5 "HOFFMAN" JUNCTION BOX
SCALE: NONE

WEIGHT: 15 LBS
SIZE (HxWxD): 18.0x18.0x6.0 IN.

6 CHARLES FIBER INTERCONNECT TERMINAL
SCALE: NONE



7 AC DISCONNECT BOX
SCALE: 1" = 2'-0"

- NOT USED
NONE

PROPOSED EQUIPMENT KEY:

1. (3) ERICSSON 6705 NR RADIOS w/ ANTENNAS, MODEL NO. 6705
   14.40" x 7.90" x 5.90" (HxWxD) - 31.00 lbs. ea.
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   3.9" x 7.9" x 11.8" (HxWxD) - 13.7 lbs.
3. NOT USED
4. 2" NON-METALLIC U-GAURD ATTACHMENT FOR FIBER/COAXIAL CABLES
5. HOFFMAN BOX
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   18.00" x 18.00" x 6.00" (HxWxD) - 15.0 lbs.
7. AC DISCONNECT BOX
   PART NO. BA206 (OR EQUIVALENT)
   12.60" x 8.90" x 4.30" (HxWxD) - 9.70 lbs.
8. 9' WOOD POLE TOP EXTENSION

EXISTING EQUIPMENT KEY:
(EQUIPMENT TO REMAIN)

A. EXISTING COMED WOOD POLE

VOLUME TABLES:

CALL OUT	DESCRIPTION OF ELEMENT	CUBIC VOLUME OF ELEMENT	VILLAGE OF HINSDALE'S USE ONLY
1	5G RADIO	1.16 ft³	

CALL OUT	DESCRIPTION OF ELEMENT	CUBIC VOLUME OF ELEMENT	VILLAGE OF HINSDALE'S USE ONLY
2	RADIO MOUNT BRACKET	0.63 ft³	
5	HOFFMAN BOX	0.55 ft³	
6	CHARLES FIBER DEMARC	1.12 ft³	
7	AC DISCONNECT	0.27 ft³	

PROPOSED CONCEALMENT NOTES:

ALL PROPOSED ITEMS ARE TO BE PAINTED TO MATCH THE POLE.

ENGINEER:
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A NETWORK CO-OP COMPANY
5101 THATCHER RD.
DOWNERS GROVE IL 60515
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OWNER:
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CROWN CASTLE FIBER
7220 N. SAM HOUSTON PARKWAY WEST
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HOUSTON, TX 77604

CONTRACTOR:
TBD

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DuPAGE, IL 60521

CROWN CASTLE ID:
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CH 55TH&LAGRANGE_HD

SCU: 507723
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DRAWN BY: JCS
DATE DRAWN: 04/27/2022

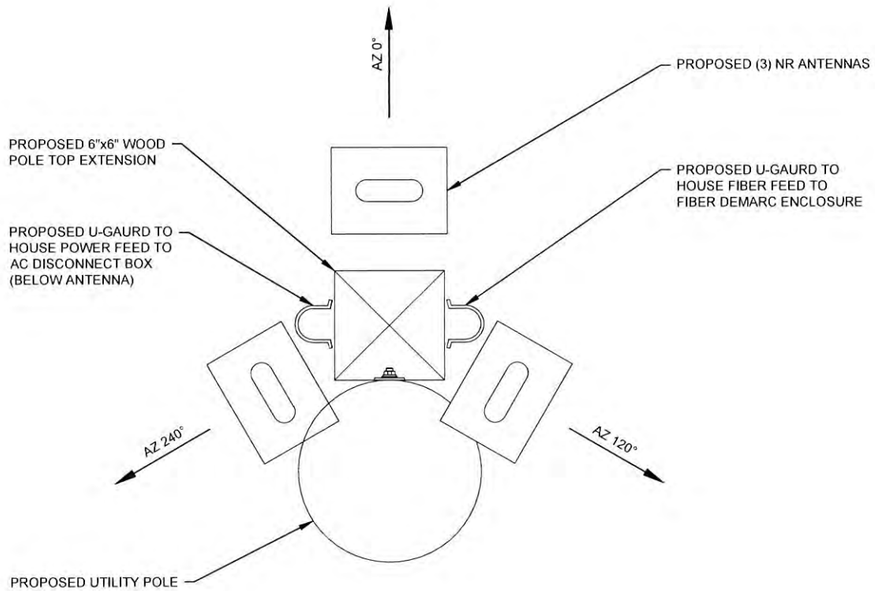
NO.	DATE	DESCRIPTION	BY
	06/14/22	PERMIT	JCS

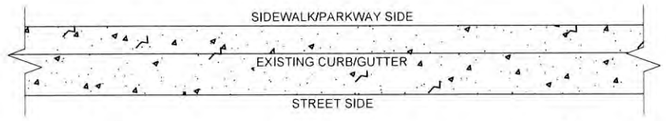
REVISIONS

SHEET NUMBER
SWF-6

NOTES:

1. ANY AND ALL DAMAGE TO EXISTING POLE DUE TO CONSTRUCTION & INSTALLATION OF THIS APPLICATION SHALL BE REPAIRED AT THE COST OF THE CONTRACTOR
2. CONTRACTOR SHALL RESTORE OR REPAIR ANY DAMAGED AREAS CAUSED BY CONSTRUCTION TO ORIGINAL OR BETTER CONDITION
3. FIBER DESIGN BY OTHERS





1 OVERHEAD POLE DETAIL
SCALE: N.T.S.

N

ENGINEER:
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A NETWORK CONNEX COMPANY
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JCS	04/27/2022

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REVISIONS

SHEET NUMBER:
SWF-7

CONDUCTOR	COLOR CODE
POSITIVE	RED
NEGATIVE	BLACK

CONDUCTOR	COLOR CODE
POSITIVE	BLACK
NEUTRAL	

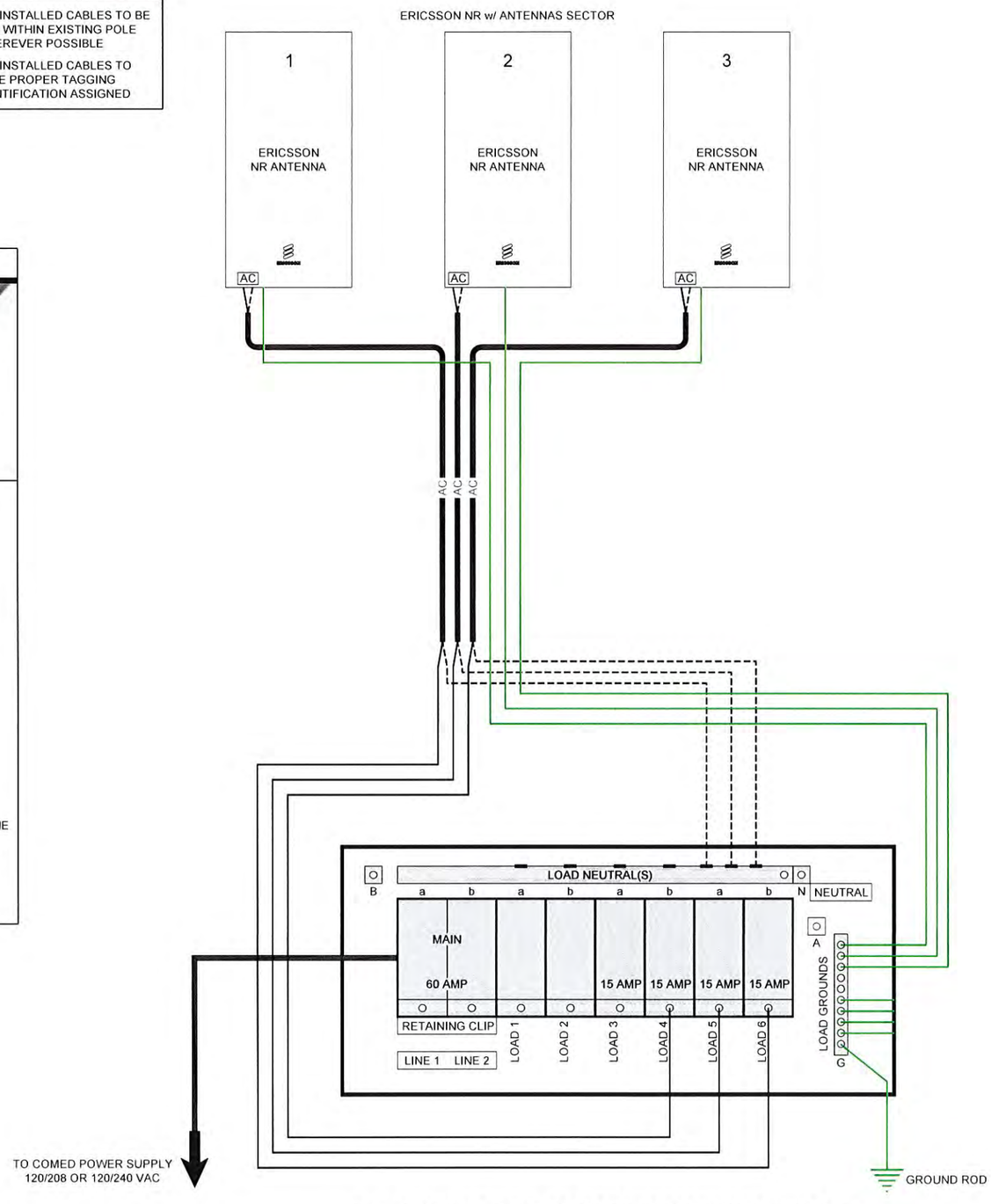
CABLE TYPE	COLOR CODE
GROUND CABLE	GREEN

NOTES:

1. ALL INSTALLED CABLES TO BE RUN WITHIN EXISTING POLE WHEREVER POSSIBLE
2. ALL INSTALLED CABLES TO HAVE PROPER TAGGING IDENTIFICATION ASSIGNED

12/2 SOOW SPECIFICATIONS:

AWG SIZE: 12
NO. OF CONDUCTORS: 2
CONDUCTOR STRANDING: 65/30
NO. OF STRANDS: 65
STRAND SIZE: 30
NOMINAL INSULATION THICKNESS (in): 0.045
JACKET THICKNESS (in): 0.090
NOMINAL O.D. OF CABLE (in): 0.570
AMPS: 25
APPROXIMATE LBS/MFT: 195
UL STYLE: SOOW
CSA TYPE: SOOW
VOLTAGE: 600
MAXIMUM TEMPERATURE: 90°C
CONDUCTOR MATERIAL: BARE COPPER
INSUL. MATERIAL: ETHYLENE PROPYLENE DIENE MONOMER RUBBER (EPDM)
JACKET MATERIAL: CHLORINATED POLYETHYLENE (CPE)
JACKET COLOR: BLACK



1 BREAKER PANEL W/ MAIN DISCONNECT SCHEMATIC
SCALE: N.T.S.

LOAD CENTER EQUIPMENT SCHEDULE

EQUIPMENT	RATING	PART NO.
LOAD CENTER BOX	N/A	QC6-12L-100RB
RETAINING CLIP	N/A	PK2MB
MAIN BREAKER	60 AMP	Q0260
INDIVIDUAL BREAKER	15 AMP	Q0115

ENGINEER:
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SUITE 500
HOUSTON, TX 77604

CONTRACTOR:
TBD

TITLE:
PROPOSED
SMALL CELL NODE

55TH ST & S MONROE ST SC
HINSDALE,
DuPAGE, IL 60521

CROWN CASTLE ID:
CTRL_HINSDALEA_52

HUB:
CH 55TH&LAGRANGE_HD

SCU:	PSLOC:
507723	539562

PROJECT NUMBER:
2211-005-U02-N052

DRAWN BY:	DATE DRAWN:
JCS	04/27/2022

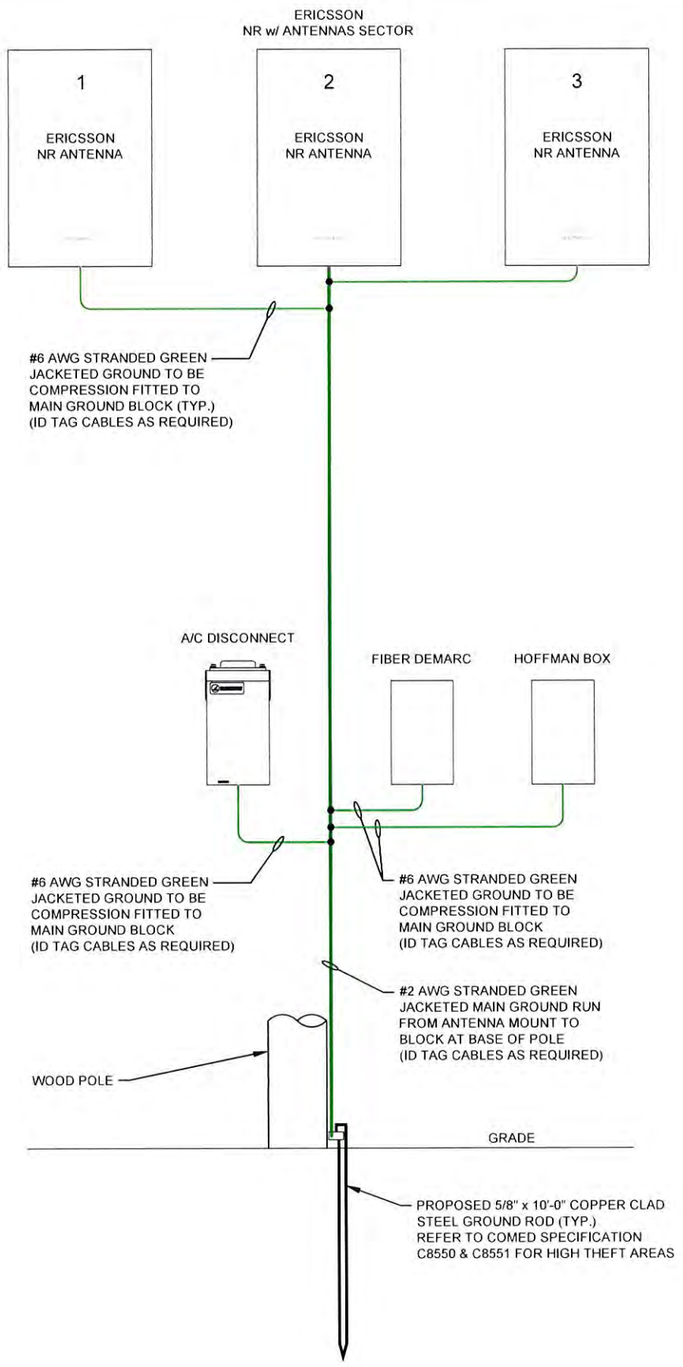
NO.	DATE	DESCRIPTION	BY
	06/14/22	PERMIT	JCS

REVISIONS

SHEET NUMBER
SWF-8

NOTES:

1. GROUNDING RISER FOR DIAGRAMMATIC PURPOSES ONLY. SEE ELEVATION DRAWINGS FOR ACTUAL EQUIPMENT AND ANTENNA LOCATIONS.
2. ALL GROUNDING CONDUCTORS TO BE PROTECTED FROM TAMPERING.



1 GROUNDING RISER DIAGRAM
SCALE: N.T.S.

GROUNDING LEGEND:

- ▭ MECHANICAL CONNECTION
- ● COMPRESSION CONNECTION

CABLE TYPE	COLOR CODE
GROUND CABLE	GREEN

ENGINEER:
CCSI NETWORKS
A NETWORK CONNECTED COMPANY
5101 THATCHER RD.
DOWNERS GROVE, IL 60515
OFFICE 630.572.9999 • FAX 630.572.9998

OWNER:
CROWN CASTLE
CROWN CASTLE FIBER
7220 N. SAM HOUSTON PARKWAY WEST
SUITE 500
HOUSTON, TX 77604

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SWF-9

REVISES STANDARD DATED 11-18-11
COMPATIBLE UNITS AVAILABLE IN PASSPORT

6-28-13
C7526
PAGE 1 OF 3

COMMUNICATIONS ANTENNA OPERATED BY OTHERS

INSTALLED ON
34kV AND BELOW SYSTEMS

ANTENNA INSTALLATION

C7526.A ANTENNA INSTALLATION

ITEM	CAT ID DESCRIPTION TABLE-1		CAT ID	UNIT	QUANTITY A
A	**WEDGE CONNECTORS**	**C7724. ___** (POWER SUPPLY CABLE – SEC)			1
B	**WEDGE CONNECTORS**	**C7724. ___** (POWER SUPPLY CABLE – NEUT)			1
C	**GROUNDING INSTALLATION**	**C8550. ___** (3)			1
D	CONNECTOR, COMPRESSION, #2 SOL – 2 STR RUN TO 8 SOL – 4 STR TA	(3)	0000368002	EA	1
E	WIRE,COPPER, CONTROL & INSTRUMENT, WEATHER RESISTANT, #4, SOLI	(3)	0000356408	FT	5
F	ANTENNA AND ALL RELATED HARDWARE AND CABLES	*	(2)		1
G	POWER SUPPLY AND ALL RELATED HARDWARE AND CABLES	*	(2)		1

* (ITEM PROVIDED BY THE COMM CO.)

NOTES:

APPLICATION

- THIS STANDARD SHALL BE USED TO INSTALL NON ComEd COMMUNICATION ANTENNAS AND A SECONDARY SERVICE CONNECTION TO A POWER SUPPLY CABINET.
- A QUALIFIED ELECTRICAL CONTRACTOR APPROVED BY ComEd SHALL UNDERTAKE THE INSTALLATION OF THE COMMUNICATION ANTENNA IN THE ComEd SUPPLY SPACE. CONTRACTORS INSTALLING ONLY THE POWER SUPPLY CABINET IN THE COMMUNICATION SPACE, ARE NOT REQUIRED TO BE ComEd APPROVED. INSTALLATION SHALL BE AT CUSTOMER'S EXPENSE.
- CONTACT ANTENNA OWNER 30 DAYS BEFORE DISCONNECTING OR MOVING AN EXISTING WIRELESS ANTENNA. FOR CONTACT INFORMATION REFER TO LABEL AFFIXED TO THE BOTTOM OF THE POWER SUPPLY CABINET.

SUPPLEMENTARY MATERIAL

(1) SPECIFY BY OTHER CONSTRUCTION STANDARD.

(2) ANTENNA, ANTENNA MOUNTING BRACKET, POWER SUPPLY, POWER SUPPLY MOUNTING BRACKET AND INTERCONNECTING CABLES ARE PROVIDED BY THE COMM CO.

(3) AT LOCATIONS WITH AN EXISTING POLE GROUND, BOND THE ANTENNA BRACKET AND POWER SUPPLY CABINET TO EXISTING GROUND LEAD AS FOLLOWS:
- OMIT ITEM "C"
- USE ITEMS "D" AND "E" TO CONNECT POWER SUPPLY CABINET TO EXISTING POLE GROUND LEAD.
- ADD ONE ADDITIONAL COMPRESSION CONNECTOR (ITEM "D") AND ADEQUATE QUANTITY OF #4 COPPER WIRE (ITEM "E") TO CONNECT ANTENNA MOUNTING BRACKET TO EXISTING POLE GROUND LEAD.

INFORMATION

11 THE ANTENNA AND POWER SUPPLY SHALL NOT BE INSTALLED ON POLES DESIGNATED BY ComEd AS AN EQUIPMENT POLE OR WHERE EXISTING COMMUNICATION CABINETS WILL CONFLICT.

EQUIPMENT POLES ARE DEFINED AS HAVING THE FOLLOWING ComEd EQUIPMENT: CLUSTER MOUNTED TRANSFORMERS WITH BAND TYPE BRACKETS THAT WRAP AROUND ENTIRE POLE (REFER TO C8062 AS AN EXAMPLE), RECLOSERS, CAPACITORS, REGULATORS, GANG OPERATED SWITCHES, CABLE RISERS, OR CONTROL CABINETS.

ANTENNA AND POWER SUPPLY SHALL NOT BE INSTALLED ONTO POLES WITH STATIC WIRE ATTACHMENTS, ONTO EXISTING FIBERGLASS POLE TOP EXTENSIONS, OR ONTO POLES WHERE THEY PRESENT AN UNUSUAL CLIMBING HAZARD.

ALL CABINETS MUST BE INSTALLED WITH THRU-BOLTS ON SAME SIDE OF POLE TO MAINTAIN ABILITY TO CLIMB POLE WHEN REQUIRED. BAND-TYPE ATTACHMENTS SHALL NOT BE USED.

(12) MAINTAIN THE FOLLOWING CLEARANCES IN ANY DIRECTION BETWEEN AN ANTENNA IN THE ComEd SUPPLY SPACE AND ANY ENERGIZED LIVE PART.

0-750V – PHASE TO PHASE – 3 INCHES
4KV AND 12KV – PHASE TO PHASE – 8 INCHES
34KV – PHASE TO PHASE – 17 INCHES

REFERENCE – NESC RULE 235I2.

MODIFY EXISTING CONSTRUCTION WHEN NECESSARY TO OBTAIN CLEARANCE BETWEEN PHASE CONDUCTOR AND ANTENNA MOUNTING BRACKET:

FOR THREE PHASE CONSTRUCTION WHEN EXISTING CENTER PHASE CONDUCTOR IS INSTALLED ON A POLE TOP PIN, INSTALL AN INSULATOR AND A PIN ON AN 8 FOOT OR 10 FOOT LINE ARM, AND MOVE PHASE CONDUCTOR FROM POLE TOP PIN TO INSULATOR ON ARM. SPECIFY CONDUCTOR TIES AS REQUIRED. REMOVE POLE TOP PIN AS NECESSARY. INSTALL ANTENNA MOUNTING BRACKET ON OPPOSITE SIDE OF POLE AS CENTER PHASE CONDUCTOR.

FOR EXISTING SINGLE PHASE CONSTRUCTION ON POLE TOP PIN, INSTALL A 40 INCH ARM AND INSULATOR PER C7432.C AND MOVE PHASE CONDUCTOR FROM POLE TOP PIN TO INSULATOR ON ARM. REMOVE POLE TOP PIN AS NECESSARY.

NO MODIFICATIONS ARE REQUIRED WHEN EXISTING CENTER PHASE CONDUCTOR IS INSTALLED ON INSULATOR ON ARM. INSTALL ANTENNA MOUNTING BRACKET ON OPPOSITE SIDE OF POLE AS CENTER PHASE CONDUCTOR.

13 ANTENNA OWNER IS RESPONSIBLE FOR PERFORMING POLE LOAD CALCULATIONS AND DETERMINING IF A GIVEN STRUCTURE IS ADEQUATE FOR THE ADDITIONAL LOAD ADDED BY ANY SUCH INSTALLATION.

14 ANTENNA DESIGN MUST LIMIT RADIATION LEVELS, OR PROVIDE MEANS OF DE-ENERGIZATION TO ALLOW ComEd PERSONNEL TO SAFELY WORK ON THEIR FACILITIES. REFERENCE – NESC RULE 4200.

ACAD

ComEd SYSTEM STANDARD

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(16) ALL VERTICAL RUNS OF COMMUNICATION CONDUCTORS PASSING THROUGH THE ComEd SUPPLY SPACE SHALL BE INSTALLED AS FOLLOWS:

- COMMUNICATION CABLES THAT ARE METAL SHEATHED MUST HAVE A NON-METALLIC COVERING FROM 40 INCHES ABOVE TO 6 FEET BELOW THE SUPPLY CONDUCTORS.
- INSULATED COMMUNICATION CONDUCTORS MUST HAVE A NON-METALLIC COVERING FROM 40 INCHES ABOVE TO 6 FEET BELOW THE SUPPLY CONDUCTORS.
- COMMUNICATION GROUNDING CONDUCTORS MUST HAVE A NON-METALLIC COVERING FROM 40 INCHES ABOVE TO 6 FEET BELOW THE SUPPLY CONDUCTORS.
- COMMUNICATION CONDUCTORS MUST MAINTAIN A CLEARANCE TO THROUGH-BOLTS AND OTHER METAL OBJECTS EQUAL TO 1/8 OF THE POLE CIRCUMFERENCE, BUT NOT LESS THAN 2 INCHES. THIS CLEARANCE CAN BE REDUCED TO 1 INCH FOR EFFECTIVELY GROUNDED CONDUCTORS.

REFERENCE – NESC RULE 239H.

(17) ANTENNA SHALL UTILIZE A WOOD OR FIBERGLASS MOUNTING BRACKET ATTACHED AT THE TOP OF POLE AS SHOWN. MAXIMUM HEIGHT OF ANTENNA AND MOUNTING BRACKET NOT TO EXCEED 8 FEET ABOVE TOP OF POLE.

WHEN POLE SELECTED FOR ANTENNA INSTALLATION NEEDS REPLACEMENT, A TALLER POLE MAY BE INSTALLED IN LIEU OF A SHORTER NEW POLE WITH AN ANTENNA MOUNTING BRACKET. HEIGHT OF NEW POLE NOT TO EXCEED HEIGHT OF PREVIOUS POLE PLUS HEIGHT OF MOUNTING BRACKET. ComEd TO ATTACH TO TALLER NEW POLE AT SAME ELEVATION AS PREVIOUS SHORTER POLE, LEAVING TOP OF NEW POLE FOR 3rd PARTY ANTENNA INSTALLATION.

18 ALL THIRD PARTY EQUIPMENT ON POLES SHALL BE CONSTRUCTED AND MAINTAINED TO PROVIDE AN UNOBSTRUCTED VERTICAL CLIMBING SPACE WITH MINIMUM HORIZONTAL DIMENSIONS OF 30 INCHES SQUARE FOR VOLTAGES 0-15kV, AND 40 INCHES SQUARE FOR VOLTAGES 15kV-38kV. CLIMBING SPACE OF THESE DIMENSIONS SHALL BE CONTINUED VERTICALLY 40 INCHES ABOVE AND BELOW THE LIMITING EQUIPMENT.

REFERENCE – NESC RULE 236.

19 ONLY POLES THAT ARE ComEd TRUCK ACCESSIBLE SHALL BE SELECTED FOR THIRD PARTY ANTENNA ATTACHMENTS.

(20) THE FIBER STRAND MOUNT ANTENNA AND ASSOCIATED POLE MOUNTED DISCONNECT SWITCH SHALL NOT BE INSTALLED ONTO POLES HAVING THE FOLLOWING ComEd EQUIPMENT: RECLOSERS, CAPACITORS, REGULATORS, GANG OPERATED SWITCHES, PRIMARY VOLTAGE CABLE RISERS, CONTROL CABINETS, STREET LIGHT ONLY POLES, AND ONTO POLES WHERE THEY PRESENT AN UNUSUAL CLIMBING HAZARD.

ACAD

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ComEd SYSTEM STANDARD

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HINSDALE,
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	06/14/22	PERMIT	JCS

REVISIONS

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SWF-10

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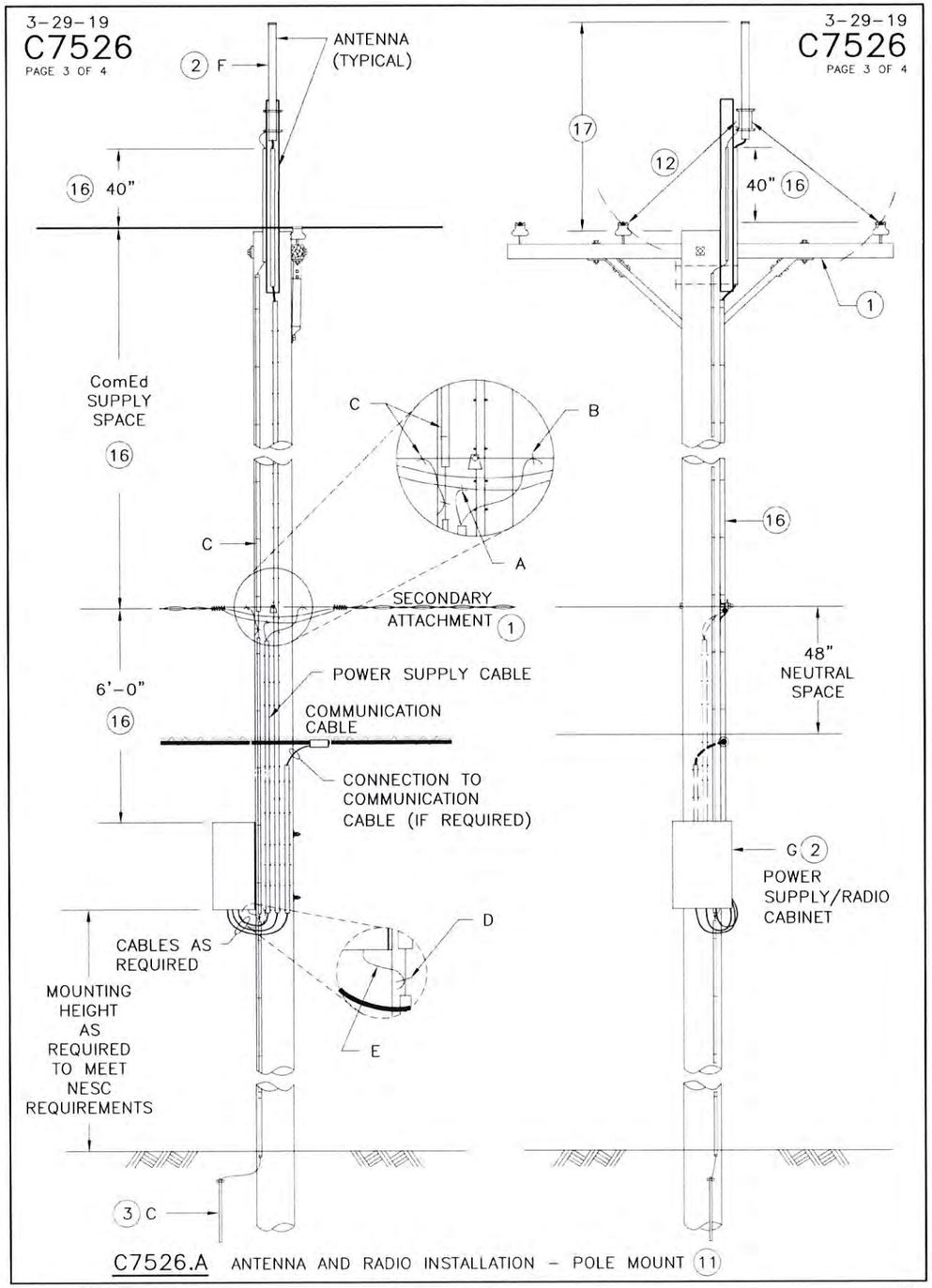
C7526
PAGE 3 OF 4



C7526.A ANTENNA AND RADIO INSTALLATION – POLE MOUNT 11

ACAD

ComEd SYSTEM STANDARD

3-29-19
C7526
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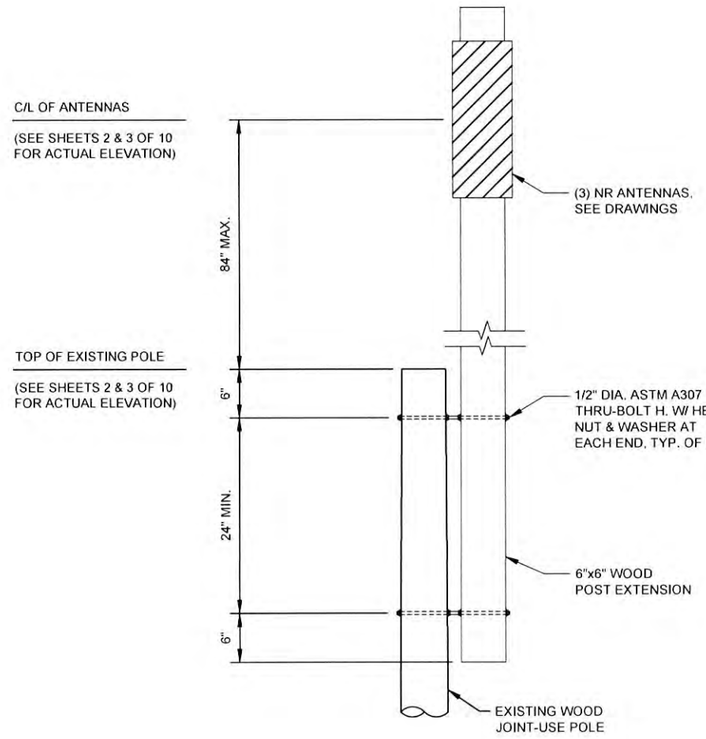
STRUCTURAL NOTES:

1. ALL WOOD LUMBER SHALL BE SOUTHERN YELLOW PINE OR EQUIVALENT, NO WITH A MINIMUM FB=1,000 PSI. LUMBER SHALL CONFORM TO THE LATEST NFPA SPECIFICATIONS.
2. ALL WOOD SHALL BE TREATED WOOD AS PER THE AMERICAN WOOD PROTECTION ASSOCIATION (AWPA). DRILLED HOLES AND CUT ENDS SHALL BE BE TREATED WITH A PRESERVATIVE, COPPER NAPHTHENATE OR OXINE COPPER OR EQUIVALENT.
3. ALL THRU-BOLTS, HEX NUTS & WASHERS SHALL BE HOT-DIP GALVANIZED AND CONFORM TO ASTM A307 SPECIFICATIONS.



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REVISIONS

SHEET NUMBER
SWF-11

GENERAL NOTES:

1. THESE NOTES SHALL BE CONSIDERED A PART OF THE WRITTEN SPECIFICATIONS.
2. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED IN THE CONTRACT DOCUMENTS.
3. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTOR(S) SHALL VISIT THE JOB SITE(S) AND BE RESPONSIBLE FOR ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED PER THE CONTRACT DOCUMENTS. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE IMPLEMENTATION CONSTRUCTION/PROJECT MANAGER AND ENGINEER/CONSTRUCTION/PROJECT MANAGER.
4. THE CONTRACTOR SHALL RECEIVE WRITTEN AUTHORIZATION TO PROCEED ON ANY WORK NOT CLEARLY DEFINED OR IDENTIFIED IN THE CONSTRUCTION DOCUMENTS BEFORE STARTING ANY WORK.
5. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES, INCLUDING APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS.
6. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS. IF THESE RECOMMENDATIONS ARE IN CONFLICT WITH THE CONTRACT DOCUMENTS AND/OR APPLICABLE CODES OR REGULATIONS, REVIEW THE CONFLICT FOR DIRECTION WITH THE IMPLEMENTATION CONSTRUCTION/PROJECT MANAGER AND ENGINEER/CONSTRUCTION/PROJECT MANAGER PRIOR TO PROCEEDING.
7. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATION OF ALL PORTIONS OF THE WORK UNDER THE CONTRACT INCLUDING CONTACT AND COORDINATION WITH THE IMPLEMENTATION CONSTRUCTION/PROJECT MANAGER AND WITH THE AUTHORIZED REPRESENTATIVE OF ANY OUTSIDE POLE OR PROPERTY OWNER.
8. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, PAVING, CURBS, SIDEWALKS, ADA RAMPS, VEGETATION, GALVANIZED SURFACE OR OTHER EXISTING ELEMENTS AND UPON COMPLETION OF THE WORK, REPAIR ANY DAMAGE THAT OCCURRED DURING CONSTRUCTION TO THE SATISFACTION OF MUNICIPALITY OR PROPERTY OWNER.
9. KEEP THE GENERAL AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH, AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. LEAVE PREMISES IN CLEAN CONDITION DAILY.
10. PLANS ARE INTENDED TO BE DIAGRAMMATIC ONLY AND SHOULD NOT BE SCALED UNLESS OTHERWISE NOTED. RELY ONLY ON ANNOTATED DIMENSIONS AND REQUEST INFORMATION IF ADDITIONAL DIMENSIONS ARE REQUIRED.
11. THE EXISTENCE AND LOCATION OF UTILITIES AND OTHER AGENCY'S FACILITIES ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. OTHER FACILITIES MAY EXIST BEYOND WHAT IS NOTED. CONTRACTOR SHALL VERIFY LOCATIONS PRIOR TO START OF CONSTRUCTION AND USE EXTREME CARE AND PROTECTIVE MEASURES TO PREVENT DAMAGE TO THESE FACILITIES. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF UTILITIES OR OTHER AGENCY'S FACILITIES WITHIN THE LIMITS OF THE WORK, WHETHER THEY ARE IDENTIFIED IN THE CONTRACT DOCUMENTS OR NOT.
12. ALL MOUNTING HARDWARE SUCH AS BOLTS, NUTS, LAG SCREWS, CLEVIS, CONDUIT STRAPS, STAPLES, (ANYTHING EXPOSED AND CONNECTING EQUIPMENT TO THE POLE) SHALL BE HOT DIPPED GALVANIZED, UNLESS OTHERWISE STATED. ANY DAMAGE CAUSED TO PAINTED AREAS SHALL BE TOUCHED-UP AS REQUIRED.

WIRELESS CARRIER CONSTRUCTION NOTES:

1. CONTRACTOR IS TO FOLLOW MOST CURRENT WIRELESS CARRIER NADV/STANDARDS DOCUMENTS PROVIDED TO COMPLETE THIS INSTALLATION.
2. CONTRACTOR TO REFER TO THE MOST CURRENT WIRELESS CARRIER NADV FOR APPROVED COAXIAL PROVIDERS AND LINE SWEEP TESTING PROCEDURES.
3. CONTRACTOR SHALL INCLUDE AT LEAST ONE "ANRITSU" CERTIFIED LINE SWEEP TECHNICIAN ON SITE DURING ANY WIRELESS CARRIER JOB RELATED TO INSTALLATION OR MAINTENANCE OF COAXIAL CABLE, ANTENNAS, TT-LNA, RF CONNECTORS, JUMPERS, OR DIPLEX FILTERS.
4. CONTRACTOR SHALL COMPLETE WIRELESS CARRIER PROVIDED "SMALL CELL SWEEP REPORT" WITH ALL INFORMATION FILLED IN ACCURATELY AND COMPLETELY.
5. CONTRACTOR TO REFER TO THE MOST CURRENT WIRELESS CARRIER NADV FOR APPROVED "PIM" TEST EQUIPMENT AND GUIDELINES.
6. CONTRACTOR IS TO USE BATTERY POWERED "PIM" EQUIPMENT TO VALIDATE THE FINAL LOCATION OF THE COAXIAL JUMPER AND ANTENNA ARE FREE OF INTERNAL AND EXTERNAL "PIM" SOURCES.
7. CONTRACTOR SHALL PROVIDE AT LEAST ONE TECHNICAL LEAD THAT IS CERTIFIED AND PROFICIENT IN EXECUTING, INTERPRETING, AND RECORDING "PIM" MEASUREMENTS.
8. ALL CABLE AND CABLE EQUIPMENT IDENTIFICATION TAGGING SHALL BE PLASTIC TAGS WITH WAX STRINGS FOR "FIBER" AND "POWER" WITHIN THE QUAZITE ENCLOSURE AND ON THE LIGHT POLE, AND SHALL COMPLY WITH THE LATEST WIRELESS CARRIER STANDARDS.
9. THE LOGO PLACARD ON THE COVER OF THE QUAZITE ENCLOSURE SHALL CLEARLY IDENTIFY OWNER.

ROW POWER CONSTRUCTION NOTES:

1. 120/240 POWER OR 120/208 SECONDARY REQUIRED FOR 3-WIRE SERVICE.
2. SECONDARY POWER SHALL BE DEPENDANT ON CURRENT AVAILABILITY(@ 3% DROP MIN. 60 AMPS), OR ESTABLISHED BY LOCAL POWER COMPANY DURING ACTUAL POWER WALK.
3. POWER ROUTE, WIRE, AND RACEWAY SIZE WILL BE DETERMINED DURING UNDERGROUND OR OVERHEAD ENGINEERING PROCESS.
4. GENERAL CONTRACTOR TO REMOVE/CLEAN ALL DEBRIS, NAILS, STAPLES, OR NON-USED VERTICALS OFF THE POLE.
5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH MUNICIPAL, COUNTY, STATE, AND FEDERAL REGULATIONS.
6. CALL CHICAGO DIGGERS HOTLINE AT 1-312-744-7000 48 HOURS PRIOR TO EXCAVATING.
7. ALL LANDSCAPING TO BE RESTORED TO ORIGINAL CONDITION OR BETTER.
8. ALL EQUIPMENT TO BE BONDED AS REQUIRED BY LOCAL CODES AND CLIENT REQUIREMENTS.
9. ALLOW 3' CLEARANCE AT METERING CABINET DOOR OPENING (IF REQUIRED).

STANDARD GROUNDING NOTES:

1. GROUND TESTED AT 5 OHMS OR LESS.
2. 5/8" x 10' OR 12' ROD, CAD WELD BELOW GRADE.
3. MINIMUM # 6 GROUND AND BOND WIRE.
4. GROUNDS ROD TO BE PLACED (1) WITHIN NEW POLE FOUNDATION .
5. ALL GROUND FASTENERS AND RELATED HARDWARE SHALL BE OF STAINLESS STEEL AND DILECTRIC GREASE SHALL BE USED AT ALL CONNECTIONS. ALL GROUNDING MUST MEET OR EXCEED NESC AND WIRELESS CARRIER STANDARDS.

PROPOSED CONCEALMENT NOTES:

ALL PROPOSED ITEMS ARE TO BE PAINTED TO MATCH THE POLE.

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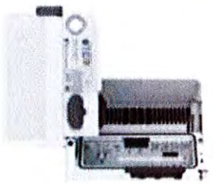
REVISIONS

SHEET NUMBER
SWF-12

PROPOSED CONCEALMENT NOTES:

ALL PROPOSED ITEMS ARE TO BE PAINTED TO MATCH THE POLE.

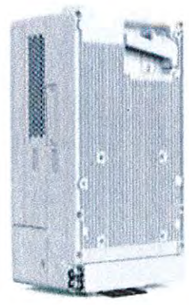
Streetmacro 6705 Mechanical



SM 6705	Height	Width	Depth	Weight
without protruding items	366 mm 14.4 In	200 mm 7.9 In	150 mm 5.9 In	~31 lbs (~13 Kg)
with protruding items including GNSS antenna	409 mm 16.2 In	204 mm 8.1 In	154 mm 6.1 In	

Streetmacro 6705

Spectrum	28GHz (n261/257) 39 GHz (n260) 24GHz (n258)
IBW	Full band
Total Carrier BW	800 MHz, continuous/non-continuous carriers
EIRP	59 dBm (CM1, 800MHz config), 62dBm (CM2, 400MHz)
EIS	-116/-113 dBm (CM1, 800MHz config)
Layers:	2 @ 800 MHz, 4 @ 400MHz
Modulation	64/64 (256) QAM UL/DL
Service Angular Range:	± 60°, ±15°
Total Antenna BW	1600 MHz
Throughput	~ 5 Gbps DL/ 1 Gbps UL
Synchronization	1588v2, GNSS
Power Consumption	<350 W typical, <500 W Max
Weight	~ 13 kg
Dimensions	366x150x200 mm wo protrusions 409x154x204 mm w protrusions (eg GNSS)
Operational conditions	-40 to +55 degrees
Cooling	Active
Power	AC, 100-250 V
IP Class	IP 65



EQUIPMENT SPECIFICATIONS SUPPLEMENT
INDEX OF DRAWINGS:

SHEET	TITLE
SWF-S.1	6705 ERICSSON NR ANTENNA SPECIFICATIONS

ENGINEER:
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SWF-S.1

Electronic Copy Of Application

Submitted via USPS Certified Mail

Postmarked June 17th, 2022

Crown Castle Certificate of Insurance

(next page)

ACORD®

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 06/10/2022

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Willis Towers Watson Northeast, Inc. c/o 26 Century Blvd P.O. Box 305191 Nashville, TN 372305191 USA	CONTACT NAME: Crown Castle International PHONE (A/C, No, Ext): FAX (A/C, No): E-MAIL ADDRESS: COIRequest@crowncastle.com
INSURED Crown Castle International See Attached Named Insured List 8020 Katy Freeway Houston, TX 77024	INSURER(S) AFFORDING COVERAGE — NAIC # INSURER A: Continental Casualty Company — 20443 INSURER B: Berkshire Hathaway Specialty Insurance Com — 22276 INSURER C: Continental Insurance Company — 35289 INSURER D: INSURER E: INSURER F:

COVERAGES **CERTIFICATE NUMBER:** W25044829 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS		
A	X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: X POLICY PRO-JECT LOC OTHER:	Y		7018331477	04/01/2022	04/01/2023	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ $ $ $ $ $	2,000,000 1,000,000 5,000 2,000,000 4,000,000 4,000,000
A	AUTOMOBILE LIABILITY X ANY AUTO OWNED AUTOS ONLY HIRED AUTOS ONLY SCHEDULED AUTOS NON-OWNED AUTOS ONLY	Y		BUA 7018331432	04/01/2022	04/01/2023	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ $ $ $	2,000,000
B	X UMBRELLA LIAB X OCCUR EXCESS LIAB CLAIMS-MADE DED X RETENTION $ 25,000	Y		47-UMO-303445-08	04/01/2022	04/01/2023	EACH OCCURRENCE AGGREGATE	$ $	5,000,000 5,000,000
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y/N: No If yes, describe under DESCRIPTION OF OPERATIONS below	N/A		WC7018331446	04/01/2022	04/01/2023	X PER STATUTE OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ $ $	1,000,000 1,000,000 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

61620966- SEC 14, T38N-R11E,
HINSDALE, DuPAGE COUNTY, ILLINOIS (Wood Utility pole approximately 140' east of the intersection of 55th St & S Monroe St.)

Re: Permit Requirement

CERTIFICATE HOLDER

Village of Hinsdale, IL.
10455 S. Ridgeland Avenue
Chicago Ridge, IL 60415

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Joseph Spina

AGENCY CUSTOMER ID: _____

LOC #: _____

ADDITIONAL REMARKS SCHEDULE

AGENCY		NAMED INSURED
Willis Towers Watson Northeast, Inc.		Crown Castle International See Attached Named Insured List 8020 Katy Freeway Houston, TX 77024
POLICY NUMBER See Page 1		
CARRIER See Page 1	NAIC CODE See Page 1	EFFECTIVE DATE: See Page 1

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,

FORM NUMBER: 25 FORM TITLE: Certificate of Liability Insurance

Village of Hinsdale, IL and its elected and appointed officers, officials, agents, and employees are included as Additional Insureds under the General Liability, Automobile Liability and Umbrella Liability policies as their interest may appear and as required by written agreement and only with respect to the liability arising out of the operations performed by or on behalf of the Named Insured.

Crown Castle International Corp.

Edition Date: 04/20/22

Named Insured	Named Insured (cont.)
AirComm of Avon, LLC	Crown Castle Solutions LLC
Assurable Insurance LLC	Crown Castle South LLC
Atlantic Coast Communications LLC	Crown Castle Towers 05 LLC
CC Edge LLC	Crown Castle Towers 06-2 LLC
CC Holdings GS V LLC	Crown Castle Towers 09 LLC
CC Site Acquisitions II LLC	Crown Castle Towers LLC
CC Strategic Investment Corp.	Crown Castle USA Inc.
CC TM PA LLC	Crown Communication LLC
CC Towers Guarantor LLC	Crown Communication New York, Inc.
CC Towers Holding LLC	Fibertech Facilities Corp.
CCATT Holdings LLC	Global Signal Acquisitions II LLC
CCATT LLC	Global Signal Acquisitions III LLC
CCATT PR LLC	Global Signal Acquisitions IV LLC
CCGS Holdings Corp.	Global Signal Acquisitions LLC
CCPR VI Tower Newco LLC	Global Signal GP LLC
CCS & E LLC	Global Signal Holdings III LLC
CCTM Holdings LLC	Global Signal Operating Partnership, LP
CCTM1 LLC	GoldenState Towers LLC
CCTM2 LLC	GS Savings Inc.
CCTMO LLC	GSPN Intangibles LLC
ComSite Venture, Inc.	High Point Management Co. LLC
Coverage Plus Antennas Systems LLC	ICB Towers LLC
Crown Atlantic Company LLC	Interstate Tower Communications LLC
Crown Castle AS LLC	Intracoastal City Towers LLC
Crown Castle Atlantic LLC	Light Tower Clearinghouse LLC
Crown Castle CA Corp.	Md7 Capitol One, LLC
Crown Castle Fiber Enterprise LLC	MW Cell Reit 1 LLC
Crown Castle Fiber Holdings Corp.	MW Cell TRS 1 LLC
Crown Castle Fiber LLC	OP LLC
Crown Castle GS III Corp.	OP 2 LLC
Crown Castle GT Company LLC	Pinnacle Towers Acquisition Holdings LLC
Crown Castle GT Corp.	Pinnacle Towers Acquisition LLC
Crown Castle GT Holding Sub LLC	Pinnacle Towers Asset Holding LLC
Crown Castle International Corp.	Pinnacle Towers Canada Inc.
Crown Castle International LLC	Pinnacle Towers III LLC
Crown Castle Investment Corp.	Pinnacle Towers Limited
Crown Castle Investment II Corp.	Pinnacle Towers LLC
Crown Castle MU LLC	Pinnacle Towers V Inc.
Crown Castle MUPA LLC	PR Site Development Corporation
Crown Castle NG East LLC	Radio Station WGLD LLC
Crown Castle Operating Company	Shaffer & Associates, Inc.
Crown Castle Operating LLC	Sidera Networks UK Limited (UK)
Crown Castle Orlando Corp.	Sierra Towers, Inc.
Crown Castle PR LLC	Tower Development Corporation
Crown Castle PR Solutions LLC	Tower Systems LLC
Crown Castle Puerto Rico Corp.	Tower Technology Company of Jacksonville LLC

Crown Castle International Corp.

Edition Date: 04/20/22

Named Insured	Named Insured (cont.)
Tower Ventures III LLC	Fiber Technologies Networks, L.L.C. (NY)
TowerOne Partners, LLC	Fibernet Direct Florida LLC
TriStar Investors LLC	Fibernet Direct Holdings LLC
TVHT LLC	Fibernet Direct TEL LLC
WCP Wireless Lease Subsidiary, LLC	Fibernet Direct Texas LLC
WCP Wireless Site Funding LLC	Fibertech Holdings Corp.
WCP Wireless Site Holdco LLC	Fibertech Networks, LLC
WCP Wireless Site Non-RE Funding LLC	Freedom Telecommunications, LLC
WCP Wireless Site Non-RE Holdco LLC	Global Signal Services LLC
WCP Wireless Site RE Funding LLC	InfraSource FI, LLC
WCP Wireless Site RE Holdco LLC	InSITE Fiber of Virginia LLC
Merged Entities to Crown Castle Fiber LLC	InSITE Solutions LLC
24/7 Chesapeake Holdings, LLC	IX2 Center, LLC
24/7 Mid-Atlantic Network of Virginia, LLC	IX2 Wilshire, LLC
24/7 Mid-Atlantic Network, LLC	JBCM Towers LLC
Access Fiber Group Holdings LLC	Light Tower Fiber New York, Inc. (NY)
Access Fiber Group, Inc.	Light Tower Holdings LLC
CA - CLEC LLC	Light Tower Management, Inc.
CC Castle International LLC	Light Tower Metro Fiber LLC
CC Edge Solutions LLC	Lightower Fiber Infrastructure Corp.
CC Finance LLC	Lightower Fiber Networks I, LLC
CC FN Holdings LLC	Lightower Fiber Networks II, LLC n/k/a Crown Castle Fiber LLC
CC Sunesys Fiber Networks LLC	LL Q1-18, LLC
CC TS LLC	LTS Buyer LLC
CCPE Acquisitions LLC	LTS Group Holdings LLC n/k/a Crown Castle Fiber Holdings Corp
CCT2 Holdings LLC	LTS Intermediate Holdings A LLC
Chesapeake Fiber, LLC	LTS Intermediate Holdings B LLC
Coastal Antennas LLC	LTS Intermediate Holdings C LLC
Cross Connect Solutions, Inc. (PA)	Mobile Media California LLC
Crown Castle Atlantic LLC	Mobile Media National LLC
Crown Castle Augusta LLC	Modeo LLC
Crown Castle BP ATT LLC	NEON Transcom, Inc.
Crown Castle International Corp. de Puerto Rico	NewPath Networks Holding LLC
Crown Castle MM Holding Corp.	NewPath Networks LLC
Crown Castle MM Holding LLC	NY - CLEC LLC
Crown Castle NG Atlantic LLC	P3 CHB-1, LLC
Crown Castle NG Central LLC	P3 Holdings 2014 LLC
Crown Castle NG Networks LLC	P3 OASA-1, LLC
Crown Castle NG West LLC	P3 PBA-1, LLC
Crown Castle PT Inc.	PA - CLEC LLC
Crown Castle Services LLC	Pinnacle San Antonio L.L.C.
Crown Castle TDC LLC	Pinnacle St. Louis LLC
Crown Castle TLA LLC	PR TDC Corporation
Crown Mobile Systems, Inc.	Princeton Ancillary Services II LLC
DAS Development Corporation	Princeton Ancillary Services III LLC

Crown Castle International Corp. Edition Date: 04/20/22

Named Insured	Named Insured (cont.)
RGP Tower Group, LLC	
Sidera Networks, Inc.	
Sunesys Enterprise LLC n/k/a Crown Castle Fiber Enterprise LLC	
Sunesys of Massachusetts, LLC	
Sunesys of Virginia, Inc.	
Sunesys, LLC	
Thunder Towers LLC	
TowerOne 2012, LLC	
TowerOne Allentown 001, LLC	
TowerOne Bethlehem 001, LLC	
TowerOne Doylestown, LLC	
TowerOne East Rockhill 001, LLC	
TowerOne Marple, LLC	
TowerOne Middletown 001, LLC	
TowerOne Middletown 002, LLC	
TowerOne Middletown 003, LLC	
TowerOne North Coventry, LLC	
TowerOne Richland, LLC	
TowerOne Upper Pottsgrove 002, LLC	
TowerOne Upper Pottsgrove, LLC	
TowerOne Warminster 001, LLC	
TowerOne Warrington 002, LLC	
Towers Finco II LLC	
Towers Finco III LLC	
Towers Finco LLC	
WA - CLEC LLC	
Wilcon Holdings LLC	
Wilcon Operations LLC	
Wilshire Connection, LLC	
Wilshire Services, LLC	
Wireless Funding, LLC	
Wireless Realty Holdings II, LLC	
Wireless Revenue Properties, LLC	
Yankee Metro Parent, Inc.	

Electronic Copy Of Application

Submitted via USPS Certified Mail

Postmarked June 17th, 2022

Bond

(Hinsdale – Site Specific)

PERFORMANCE BOND

Bond Number: 20BSBIW4431

KNOW ALL BY THESE PRESENTS, That we Crown Castle Fiber LLC, as Principal, hereinafter called Principal, and Hartford Fire Insurance Company, a CT corporation, as Surety, hereinafter called Surety, are held and firmly bound unto Village of Hinsdale, as Obligee, hereinafter called Obligee, in the amount of Ten Thousand Dollars and 00/100 Dollars ($ 10,000.00) for the payment of which sum, well and truly to be made, the said Principal and Surety bind themselves, and their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, as a condition of said Permit requires Principal to provide a Bond Restoration of Right of Way after Construction – Hinsdale, DuPage County, Illinois – Wood Utility Pole Approximately 140' East of the Intersection of 55th St & S Monroe St..

NOW, THEREFORE, THE CONDITION OF THE ABOVE OBLIGATION IS SUCH, That if Principal shall promptly and faithfully perform said agreement, then this obligation is void, otherwise to remain in full force and effect.

PROVIDED, HOWEVER, That:

1. It shall be a condition precedent to any right of recovery hereunder, that in event of any default on the part of the Principal, a written statement of the particular facts of such default shall be forwarded to the Surety, within sixty (60) days of the occurrence of such default, delivered by registered mail to Surety at its Home Office in Hartford, CT

2. That no action, lawsuit or proceeding shall be had or maintained against the Surety on this Bond unless the same be filed and properly served upon the Surety within one year from the effective date of the cancellation of the Bond.

3. That no right of action shall accrue under this Bond to or for the use of a person or entity other than the Obligee, and its successors and assigns.

4. This Bond shall become effective June 1, 2022.

5. This Bond shall continue in full force and effect until canceled by the Surety by providing thirty (30) days written notice to the Obligee.

6. The liability of the Surety shall in no event exceed the aggregate penal sum of the Bond penalty.

7. If any conflict or inconsistency exists between the Surety's obligation or undertakings as described in the Bond and as described in the underlying document, then the terms of the Bond shall prevail.

IN WITNESS WHEREOF, The said Principal has signed and sealed this instrument on this 1st day of June, 2022.

Crown Castle Fiber LLC

By: Digitally signed by Jessica R Chiniewicz Date: 2022.06.01 14:51:45 -04'00'

Name/Title Jessica R. Chiniewicz Risk & Surety Bond Manager

IN WITNESS WHEREOF, The said Surety has signed and sealed this instrument on this 1st day of June, 2022.

Hartford Fire Insurance Company

By: Donna M Planeta Digitally signed by Donna M Planeta Date: 2022.06.01 12:54:52-04'00'

Donna M Planeta ,Attorney-in-Fact

POWER OF ATTORNEY

Direct Inquiries/Claims to:
THE HARTFORD
BOND, T-11
One Hartford Plaza
Hartford, Connecticut 06155
Bond.Claims@thehartford.com
call: **888-266-3488** *or fax:* **860-757-5835**

KNOW ALL PERSONS BY THESE PRESENTS THAT: **Agency Code: SurePath**

- [X] **Hartford Fire Insurance Company**, a corporation duly organized under the laws of the State of Connecticut
- [ ] **Hartford Casualty Insurance Company**, a corporation duly organized under the laws of the State of Indiana
- [ ] **Hartford Accident and Indemnity Company**, a corporation duly organized under the laws of the State of Connecticut
- [ ] **Hartford Underwriters Insurance Company**, a corporation duly organized under the laws of the State of Connecticut
- [ ] **Twin City Fire Insurance Company**, a corporation duly organized under the laws of the State of Indiana
- [ ] **Hartford Insurance Company of Illinois**, a corporation duly organized under the laws of the State of Illinois
- [ ] **Hartford Insurance Company of the Midwest**, a corporation duly organized under the laws of the State of Indiana
- [ ] **Hartford Insurance Company of the Southeast**, a corporation duly organized under the laws of the State of Florida

having their home office in Hartford, Connecticut (hereinafter collectively referred to as the "Companies") do hereby make, constitute and appoint

Donna M Planeta *of* **Knoxville, TN**

their true and lawful Attorney-in-Fact, to sign its name as surety(ies) only as delineated above by ☒, and to execute, seal and acknowledge the following bond, undertaking, contract or written instrument:

Bond No. 20BSBIW4431 on behalf of Crown Castle Fiber LLC naming Village of Hinsdale as Obligee in the amount of See Bond Form

on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

In Witness Whereof, and as authorized by a Resolution of the Board of Directors of the Companies on May 23, 2016 the Companies have caused these presents to be signed by its Assistant Vice President and its corporate seals to be hereto affixed, duly attested by its Assistant Secretary. Further, pursuant to Resolution of the Board of Directors of the Companies, the Companies hereby unambiguously affirm that they are and will be bound by any mechanically applied signatures applied to this Power of Attorney.

Shelby Wiggins, Assistant Secretary

Joelle L. LaPierre, Assistant Vice President

STATE OF FLORIDA
COUNTY OF SEMINOLE } **ss.** Lake Mary

On this 20th day of May, 2021, before me personally came Joelle LaPierre, to me known, who being by me duly sworn, did depose and say: that (s)he resides in Seminole County, State of Florida; that (s)he is the Assistant Vice President of the Companies, the corporations described in and which executed the above instrument; that (s)he knows the seals of the said corporations; that the seals affixed to the said instrument are such corporate seals; that they were so affixed by authority of the Boards of Directors of said corporations and that (s)he signed his/her name thereto by like authority.

Jessica Ciccone
My Commission HH 122280
Expires June 20, 2025

I, the undersigned, Assistant Vice President of the Companies, DO HEREBY CERTIFY that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which is still in full force effective as of June 1, 2022.

Signed and sealed in Lake Mary, Florida.

Keith D. Dozois, Assistant Vice President