			Ap	oplication Date	C.U.P Number						
Dane County				12/21/2023	DCPCU	2611					
				lic Hearing Date							
Application			(02/27/2024							
OWNER II	NFORMATION				AGENT INFOR	MATION					
OWNER NAME NATHAN M MOE		Phone with Area Code (608) 843-97	IJ	GENT NAME AKE REMINGT		one with Area Code 14) 978-5527					
BILLING ADDRESS (Number, Street) 1896 WILLIAMS DR)			ADDRESS (Number, Street) 511 NORTH BROADWAYSUITE 1100							
(City, State, Zip) STOUGHTON, WI 53589				City, State, Zip) /IIwaukee, WI 532	02						
E-MAIL ADDRESS moeenterprises210@gmail.c	om			-MAIL ADDRESS ake.Remington@I	huschblackwell.com						
ADDRESS/LOCAT	TION 1	ADDRESS	LOC	ATION 2	ADDRES	SS/LOCAT	ION 3				
ADDRESS OR LOCATION	N OF CUP	ADDRESS OF	R LOC	ATION OF CUP	ADDRESS OR LOCATION OF CUP						
1896 Williams Dr											
TOWNSHIP PLEASANT SPRINGS	SECTION 29	TOWNSHIP		SECTION	TOWNSHIP		SECTION				
PARCEL NUMBERS IN	VOLVED	PARCEL NU	MBER	S INVOLVED	PARCEL N	UMBERS IN	IVOLVED				
0611-294-9140)-4										
		CUP D	ESCR	RIPTION							
180' self-support commun	ication tower c	on FP-35 zoned p	roper	ty							
	DANE CO	UNTY CODE OF O	RDIN	ANCE SECTION			ACRES				
10.103(9) and 10.122(3)(b)						0.23				
		DEED RESTRICT REQUIRED?		Inspectors Initials	SIGNATURE:(Owne	er or Agent)					
Yes			No	0.0.0.4							
			AMA1	PRINT NAME:							
COMMENTS: DRIVEWAY WILL REQUIRE PERMIT FROM TOWN OF											
PLEASANT SPRINGS; EF COUNTY LAND & WATE		ком	DANE	DATE:							

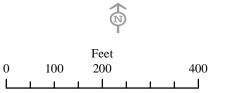
Form Version 01.00.03



CUP 2611







Conditional Use Permit application for TowerNorth Development, LLC and Verizon Wireless for 180' Communications Tower located at 1896 Williams Drive Stoughton, WI 53589 (Parcel ID: 061129491404)

> Amanda Wegrzyn, Market Manager 52 Farm View Dr., Ste 201 New Gloucester, ME 04260

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SUMMARY OF PROPOSED CONDITIONAL USE APPROVAL FOR NEW COMMUNICATIONS TOWER

TowerNorth Development, LLC ("TowerNorth") and Verizon Wireless LLC ("Verizon") seek Conditional Use Permit approval to construct a 180-foot wireless communications tower with a four (4) foot lightning rod on the property located at 1896 Williams Drive Stoughton, WI with a property tax ID number of 061129491404. The property is located in Dane County and the property is zoned General Farmland Preservation (FP-35). The property is owned by Nathan Moe.

The purpose of the facility is to allow Verizon to improve its customer experience in the vicinity of the proposed facility, specifically to increase the capacity of the network in this area. After evaluating Verizon Wireless's search area in which it is seeking to install new telecommunication antennas, no existing structures were located that would allow Verizon to achieve its network objective.

Verizon's antenna and ancillary equipment will be mounted at the 175' elevation. The tower will be capable of holding three additional co-locators at lower elevations. The tower will be enclosed within a 65' x 65' fenced area within the 100' x 100' lease area. Within the compound, Verizon will install its ground equipment along with a generator and hand hole/pull box for its fiber equipment. The compound will be enclosed by a fence and accessed only through a locked gate. The site is an unmanned facility; therefore, no water or sewage service is necessary. The tower and compound will be accessed from Williams Drive (see Exhibit A).

If Dane County approved the Conditional Use Permit for TowerNorth and Verizon, the enhancement of the Dane County's public safety system and the improved E-911 services from Verizon will improve public safety in the County. A few reasons for the need and benefit of the installation to the community are below:

- More than 75% of prospective home buyers prefer strong cellular connections when buying a home (Rootmetrics, June 2015).
- 35% of Americans reach for their smartphone first in the morning (CTIA, July 2015), underscoring the importance of in-building coverage.
- In the United States, mobile data traffic will grow 7-fold from 2014 to 2019, a compound annual growth rate of 47%. (Cisco VNI Mobile Forecast Highlights, 2014-2019, October 2015)
- In the US, there are 355 million wireless devices for 319 million residents. (CTIA, "Facts and Infographics, June 2015).

Robust public safety services enhance the general welfare of the community by reducing emergency responder's response times to life/safety emergencies.

COMPLIANCE WITH DANE COUNTY CONDITIONAL USE PERMIT STANDARDS: DANE COUNTY COMMUNICATION TOWER ORDINANCE – SECTION 10.103(9)

TowerNorth and Verizon have met all the standards pursuant to Dane County Communication Tower Ordinance Section 10.103. Therefore, granting Verizon's requested Conditional Use Permit approval is the only appropriate determination.

(a) Purpose and intent of section.

The purpose and intent of this section is to provide a uniform and comprehensive set of standards for the development and installation of telecommunication towers and related facilities, including, but not limited to broadcast radio and television facilities, mobile service support structures and facilities, and fixed wireless internet facilities. The provisions of this section are intended to ensure that telecommunication facilities are located, constructed, maintained, and removed in a manner that:

1. Protects and promotes public health, safety, community welfare and the quality of life in Dane County as set forth within the goals, objectives and policies of the Dane County Comprehensive Plan, and this ordinance;

TowerNorth and Verizon's proposed installation and operation will promote the public health, safety, community welfare, and quality of life in Dane County. The approval of this installation will enhance Dane County's public safety system and the improved E-911 services from Verizon will improve public safety in the County.

2. Respects the rights and interests of towns, neighboring property owners, and existing land uses on adjoining properties in the decision making process;

TowerNorth and Verizon's proposed installation respects the rights and interests of towns, neighboring property owners, and existing land uses on adjoining properties.

3. Recognizes the public necessity for telecommunication facilities and the numerous benefits and opportunities a robust wireless infrastructure make possible for county residents, including improved public safety, efficient production and distribution of goods and services, access to educational resources, and economic development opportunities;

TowerNorth and Verizon's proposed installation will not impede the normal and orderly development and improvement of the surrounding property for uses permitted in the district. The proposed tower, once constructed, will serve to enhance telecommunications services in the area.

4. Allows appropriate levels of service to be obtained throughout the County, including expansion to rural areas seeking access to personal communications and broadband internet services as such services are defined by the Federal Communications Commission;

TowerNorth and Verizon is seeking to increase capacity at this site to allow for improved user experience.

5. Minimizes the number of transmission towers throughout the County;

TowerNorth and Verizon's proposed installation offers three (3) additional spaces for other carriers to co-locate, reducing the number of towers.

6. Encourages the joint use of new and existing telecommunication facilities as a preferred siting option;

TowerNorth and Verizon's proposed installation offers three (3) additional spaces for other carriers to co-locate, reducing the number of towers. Additionally, collocation was explored as the primary option in this area, but no existing structures were located that would allow Verizon to achieve its network objective.

7. Ensures that all telecommunication facilities, including towers, antennas, and ancillary facilities are located and designed to minimize the visual and environmental impact on the immediate surroundings and throughout the county;

TowerNorth and Verizon's proposed installation is designed to minimize the visual and environmental impact on the immediate surroundings and throughout the county. The proposed tower will be set back from Williams Road and galvanized gray in color to blend in with the surrounding area (which is rural and a relatively unpopulated area abutting the Yahara River).

- Avoids potential damage to adjacent properties from tower failure or ice falls through sound engineering and careful siting of structures; and
 TowerNorth and Verizon's proposed installation avoids potential damage to adjacent properties from tower failure or ice falls through sound engineering and careful siting of structures.
- Provides a public forum to assure a balance between public concerns and private interests in establishing commercial telecommunications and related facilities.
 TowerNorth and Verizon will provide a public forum to assure a balance between public concerns and private interests.

(b) New construction or substantial modification of communication towers.

- 1. Application process. New or substantially modified communication towers require approval of a conditional use permit. In addition to materials required under s. 10.101(6), the applicant must provide, in a form acceptable to the zoning administrator, the following:
 - a. Application. Completed communications tower conditional use permit application form, that includes, at a minimum:
 - i. The name and business address of, and the contact individual for, the applicant. If the applicant is a tower company or site acquisition consultant, the name(s), address(es), and contact individual(s) for the anchor tenant(s) along with the FCC license number(s) of the carrier(s) or service provider(s).

- ii. The precise location and base ground elevation above mean sea level of the proposed or affected support structure. Location information shall be provided in latitude/longitude coordinates.
- iii. The specific type(s) of communication services(s) to be provided by the proposed facility, the operating frequency, or frequencies at which service(s) will be provided, and the minimum required elevation above mean sea level necessary to provide the services.

The Conditional Use Permit application includes the application information listed above. See Exhibit A

- b. Project narrative. A signed project narrative explaining the need for a new or modified communication tower. The narrative should also include the following information:
 - i. An explanation why the particular site was selected.
 - ii. For an application to construct a new tower, an explanation as to why the applicant chose the proposed location and why the applicant did not choose collocation, that addresses the requirements of section 10.103(9)(c)1. The narrative must include a sworn statement from an individual who has responsibility over the placement of the mobile service facility attesting that collocation within the mobile service provider's search ring would not result in the same mobile service functionality, coverage, and capacity; is technically infeasible; or is economically burdensome to the mobile service provider. For the purposes of this ordinance, cost savings or increased profitability shall not be considered an economic burden.

The Conditional Use Permit application includes the application information listed above. See Exhibit B.

c. Search ring map. Applicants must submit a search ring map issued by the mobile service provider on letterhead of the mobile service provider. The search ring map shall show the area in which the mobile service facility and mobile service support structure should be located to meet the radio frequency engineering requirements to provide mobile service to the geographic area or areas determined by the mobile service provider to lack adequate service from the provider's existing network. The map must include a scale of miles, road names, municipal boundaries, all existing mobile service support structures within 1.5 miles of the search ring, and any tall structure over 100' in height within the search ring. The map must document and assign an identification number to all existing towers within 1.5 miles of the center of the search ring and include a brief statement explaining why the tower is not viable for collocation. The zoning administrator may require that the map be accompanied by a table providing additional data for each existing tower within 1.5 miles of the search ring, including but not limited to, the following: simple description of the tower, existing and maximum design height, FCC registration number; owner's name and contact information; number of collocation spots occupied and available on the tower; present percentage of use of the tower, available aperture at the requester's preferred height, type of communication technology being used.

In order to meet Verizon's network objective, the search ring for a candidate was within 0.25 miles of 42.94302, -89.2256. There were no structures within the search ring that met this requirement. See Exhibit C.

d. Radio frequency propagation maps. Two radio frequency (RF) propagation plots depicting the carrier's current service (clearly highlighting the existing service area void), and the service to be gained by the proposed facility. These plots shall be prepared in accordance with accepted industry standards and shall be accompanied by a clear and simply written description by an RF engineer explaining the plots and how to read them.

The Conditional Use Permit application includes radio frequency propagation maps. Note that this project is to increase capacity of the network in this area, not coverage. See Exhibit D.

- e. Site plan. In addition to all of the information required under s. 10.101(6), site plans must include the following information:
 - i. Existing or proposed zoning and conditional use permit area and proposed or existing lease area
 - Existing and/or proposed tower compound area depicting location and layout of existing and/or proposed tower and related facilities including distances to the lease and CUP area;
 - iii. Existing and/or proposed residences (if any) on both the subject property and neighboring properties within .5 mile of the subject property – distances should be shown to neighboring residences located within 1,500' per 100' of tower height.

The Conditional Use Permit application includes the application information listed above. See Exhibit E.

- f. Preliminary design / construction plans, site photos and photo simulations. A description of the tower design and height. The description shall include:
 - i. A preliminary scaled elevation drawing of the proposed tower showing the location and elevation (feet Above Ground Level and Above Mean Sea Level) of each potential antenna array and any anticipated lighting. The drawing should also identify the proposed color and surfacing of the tower and ancillary facilities; See updated CDs page ANT-1 regarding color of tower. Also page VW B-1 & VW B2 regarding color of ancillary facilities.
 - ii. A statement indicating the anticipated design capacity of the tower in terms of the number, type and height of collocations it is designed to accommodate;
 - iii. Preliminary drawings showing the dimensions and design details for all tower facilities, including the specific types of communications equipment to be mounted on the tower.
 - iv. Information regarding any anticipated or proposed lighting, including types and color of lights, and whether lighting is nighttime only or both day / night and any difference between time periods.
 - v. Site photos and photo simulations showing the proposed location of the tower from adjoining properties and depicting the appearance of the tower following installation. Photo simulations shall include a scaled representation of the tower superimposed on the site photos taken from adjoining properties.

vi. Statement of compliance with Federal Communications Commission guidelines on radio frequency exposure and interference. Compliance statement must be on letterhead of the licensed carrier(s) proposing to provide telecommunications services on the tower.

The Conditional Use Permit application includes the application information listed above. See Exhibit A.

g. Notification to other carriers. Applicants shall provide written notification to other carriers licensed to provide wireless services in Dane County informing them of the intent to construct a new telecommunication tower. The zoning administrator shall maintain a list of licensed carriers, including contact information and a standard form that may be used to fulfill this requirement.

Other carriers will be notified upon completion of tower construction.

h. Notification to nearby airports. The applicant shall provide written notification to all operators and owners of airports located within 5 miles of the proposed site. (Staff note: an FAA determination of no hazard to air navigation does not satisfy this requirement.)

TowerNorth and Verizon will provide notification to nearby airports within five (5) miles of the proposed site.

i. Aeronautic hazards. The applicant shall provide copies of a determination of no hazard from the federal aviation administration, including any aeronautical study or other findings, if applicable.

The Conditional Use Permit application includes a FAA Determination of No Hazard. See Exhibit F.

j. Other information. The Zoning Administrator, 3rd party engineering consultant, and/or Zoning & Land Regulation Committee may request additional information from the applicant as may be deemed necessary for review of a Conditional Use Permit application.

TowerNorth and Verizon will comply with additional information requests deemed necessary to the review this Conditional Use Permit application.

k. Fees. Application and review fees as required in Chapter 12.

Two (2) separate checks have been included with this application to cover the cost of the application fee (\$1145) and the third-party radio frequency engineering review fee (\$3000).

EXHIBIT A

Dane County

(608) 266-4266

Madison, Wisconsin 53703

Department of Planning and Development Zoning Division Room 116, City-County Building 210 Martin Luther King Jr. Blvd.

Application Fees							
General: \$495							
Mineral Extraction:	\$1145						
Communication Tower: \$1145 (+\$3000 RF eng review fee)							
PERMIT FEES DOUBLE FOR VIOLATIONS OR WHEN WORK HAS STARTED PRIOR TO ISSUANCE OF PERMIT							

CONDITIONAL USE PERMIT APPLICATION

APPLICANT INFORMATION								
Property Owner Name:	Nathan Moe	Agent Name:	Trish Gray (agent for TowerNorth/VZW)					
Address (Number & Street):	1896 WILLIAMS DR.	Address (Number & Street):	26 E. Scranton Avenue, #188					
Address (City, State, Zip):	STOUGHTON WI 53589	Address (City, State, Zip):	Lake Bluff, IL 60044					
Email Address:	moeenterprises210@gmail.com	Email Address:	pgray@mountainItd.com					
Phone#:	608-843-9733	Phone#:	630-746-5433					

SITE INFORMATION

Township:	Pleasant Springs		Parcel Number(s):	061129491404
Section:	SEC 29-6-11 SW1/4 SE1/4		Property Address or Location:	1896 WILLIAMS DR. STOUGHTON, WI 53589
Existing Zor	ning: FP-35	Proposed Zoning:	CUP Code Section(s):	10.101(7)(d) and 10.103(9)

DESCRIPTION OF PROPOSED CONDITIONAL USE

Type of conditional use permit (for example: limited family business, animal boarding, mineral extraction, or any other listed conditional use):

Is this application being submitted to correct a violation? Yes No

Telecommunications tower

Provide a short but detailed description of the proposed conditional use:

The scope of work for the new Verizon site located at 1896 Williams Dr. Stoughton, WI includes installing a new 180' tower with antennas and ancillary equipment and installing two concrete pads within the sublease area within the fenced compound for a generator and ground equipment. Additionally, a new driveway is required to access the site.

GENERAL APPLICATION REQUIREMENTS

Applications will not be accepted until the applicant has met with department staff to review the application and determined that all necessary information has been provided. Only complete applications will be accepted. All information from the checklist below must be included. Note that additional application submittal requirements apply for particular uses or as may be required by the Zoning Administrator. Applicants for significant and/or potentially controversial conditional uses are strongly encouraged to meet with staff prior to submittal.

Complete attached information sheet for standards	Detailed operational plan	Written legal description of boundaries	Detailed written statement of intent	Application fee (non- refundable), payable to Dane County Treasurer
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I certify by my signature that all information presented herein is true and correct to the best of my knowledge. I hereby give permission for staff of the Dane County Department of Planning and Development to enter my property for the purpose of collecting information to be used as part of the review of this application. I acknowledge that submittal of false or incorrect information may be grounds for denial of this application.

Owner/Agent Signature:

09/01/2023 Date:



STANDARDS FOR CONDITIONAL USE PERMITS

Applicants must provide adequate evidence demonstrating to the Town and Dane County Zoning & Land Regulation Committee that the proposed conditional use satisfies the following 8 standards for approval, along with any additional standards specific to the applicable zoning district or particular use found in sections <u>10.220(1)</u> and <u>10.103</u> of the code.

Please explain how the proposed land use will meet the following standards (attach additional pages, if necessary):

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

TowerNorth and Verizon's proposed installation and operation will not be detrimental to or endanger the public health, safety, comfort, or general welfare. The approval of this installation will enhance Dane County's public safety system and the improved E-911 services from Verizon will improve public safety in the County.

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

TowerNorth and Verizon's proposed installation will not substantially impair or diminish the uses, values, or enjoyment of other properties in the neighborhood. The proposed tower is set back from Williams Drive approximately 730ft east of the right-of-way and is adjacent to a tree-line approximately 130ft north of the proposed tower.

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

TowerNorth and Verizon's proposed installation will not impede the normal and orderly development and improvement of the surrounding property for uses permitted in the district. The proposed tower, once constructed, will serve to enhance telecommunications services in the area.

4. Adequate utilities, access roads, drainage and other necessary site improvements have been or are being made to accommodate the conditional use.

TowerNorth and Verizon are in the process of obtaining the adequate utilities, access roads, drainage, and other necessary improvements.

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

TowerNorth and Verizon's proposed installation, once constructed, will have a negligible impact to existing traffic congestion.

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

TowerNorth and Verizon's proposed installation will conform to all applicable regulations of the FP-35 district.

7. The conditional use is consistent with the adopted town and county comprehensive plans.

TowerNorth and Verizon's proposed installation is consistent with the adopted town and county comprehensive plans.

8. If the conditional use is located in a Farmland Preservation (FP) Zoning district, the conditional use is subject to the following additional standards found in section 10.220(1). Attach additional pages, if necessary.

• Explain how the use and its location in the Farmland Preservation Zoning District are consistent with the purposes of the district:

Conditional Uses 10.222(3) - "Transportation, communication, pipeline, electric transmission, utility, or drainage uses not required by law"

• Explain how the use and its location in the Farmland Preservation Zoning district are reasonable and appropriate, considering alternative locations:

This location meets the network objective, while minimizing impact to the local community.

• Explain how the use is reasonably designed to minimize the conversion of land from agricultural use or open space use:

This proposed installation offers three (3) additional spaces for other carriers to co-locate, reducing the number of towers.

• Explain how the use does not substantially impair or limit the current or future agricultural use of surrounding parcels zoned for agricultural use:

The proposed footprint is 65ft x 65ft, is 127ft from the property line, and does not impact the agricultural use of surrounding parcels.

• Explain how construction damage to land remaining in agricultural use is minimized and repaired, to the extent feasible:

TowerNorth and Verizon will mitigate damage and restore land to pre-construction status

WRITTEN STATEMENT OF INTENT AND OPERATIONS PLAN

Applicants must provide a detailed written statement of intent describing the proposed conditional use along with an operational plan that explains how the conditional use will be operated. Please use the form below and provide responses, as applicable, to your proposed conditional use. Attach additional pages, if necessary.

Describe in detail the proposed conditional use. Provide the specific location of the use(s), type of equipment used, planned property improvements, including description / size of existing or proposed new buildings to be used, and any other relevant information. For existing or proposed commercial operations, provide the name of the business and describe the nature and type of business activity.

TowerNorth Development, LLC ("TowerNorth") and Verizon Wireless LLC ("Verizon") seek Conditional Use Permit approval to construct a 180-foot wireless communications tower with a four (4) foot lightning rod on the property located at 1896 Williams Drive Stoughton, WI with a property tax ID number of 061129491404. The purpose of the facility is to allow Verizon to improve its customer experience in the vicinity of the proposed facility, specifically to increase the capacity of the network in this area. The property is located in Dane County and the property is zoned General Farmland Preservation (FP-35). The property is owned by Nathan Moe.

Verizon's antenna and ancillary equipment will be mounted at the 175' elevation. The tower will be capable of holding three additional co-locators at lower elevations. The tower will be enclosed within a 65' x 65' fenced area within the 100' x 100' lease area. Within the compound, Verizon will install its ground equipment along with a generator and hand hole/pull box for its fiber equipment. The compound will be enclosed by a fence and accessed only through a locked gate. The site is an unmanned facility; therefore, no water or sewage service is necessary. The tower and compound will be accessed from Williams Drive (see Exhibit A).

List the proposed days and hours of operation.

24/7. This is an unmanned communication tower.

List the number of employees, including both full-time equivalents and maximum number of personnel to be on the premises at any time.

The maximum number of personnel on the premises will be six (6).

List any anticipated noise, odors, dust, soot, runoff or pollution associated with the conditional use, along with any proposed measures that will be taken to mitigate impacts to neighboring properties.

Noise from the backup generator - See 30KW GENERAC DIESELOUTDOOR SOUND DATA.pdf

Describe any materials proposed to be stored outside and any activities, processing or other operations taking place outside an enclosed building.

TowerNorth and Verizon's proposed installation is within a fenced-in compound that is locked. No outside storage or activities.

For proposals involving construction of new facilities and/or infrastructure, describe, as applicable, any measures being taken to ensure compliance with county stormwater and erosion control standards under <u>Chapter 11</u> of <u>Chapter 14</u>, Dane County Code.

TowerNorth and Verizon's proposed installation has two concrete pads (11ft x 4ft; 4.5ft x 10ft) and aggregate.

List and describe existing or proposed sanitary facilities, including adequate private onsite wastewater treatment systems, associated with the proposed conditional use. For uses involving domestic pets or livestock, list and describe measures taken to address manure storage or management.

N/A. This is an unmanned communications tower.

List and describe any existing or proposed facilities for managing and removal of trash, solid waste and recyclable materials.

N/A. This is an unmanned communications tower.

Describe anticipated daily traffic, types and weights of vehicles, and any provisions, intersection or road improvements or other measures proposed to accommodate increased traffic.

TowerNorth and Verizon's proposed installation, once constructed, will have a negligible impact to existing traffic congestion.

Provide a listing of any hazardous, toxic or explosive materials to be stored on site, and any spill containment, safety or pollution prevention measures.

None to be stored on site. See WI1040 Lake Kegonsa - NEPA Review 7-13-23.pdf

Describe any existing or proposed outdoor lighting along with any measures that will be taken to mitigate light-pollution impacts to neighboring properties. The Zoning Administrator may require submittal of a photometric plan for outdoor lighting if deemed necessary to determine potential impacts to neighbors.

No Light at top of tower required to comply with FAA regulations. This structure is under 200ft - See Lake Kegonsa NB WI1040-A PAL SST 7-14-23.pdf

Describe any existing or proposed signage, including size, location, and materials, consistent with the county's sign ordinance found in s. <u>10.800</u>.

See page C-6

Briefly describe the current use(s) of the property on which the conditional use is proposed.

Agriculture.

Briefly describe the current uses of surrounding properties in the neighborhood.

Agriculture and residential.

APPLICATION CHECKLIST FOR A CONDITIONAL USE PERMIT

A scaled site plan and detailed operations plan must be submitted with your Conditional Use Permit application. Please use the checklist below to ensure you are submitting all required information applicable to your request. Please attach to your application form the required maps and plans listed below, along with any additional pages.

□ SCALED SITE PLAN. Show sufficient detail on 11" x 17" paper. Include the following information, as applicable:

□ Scale and north arrow.

 \Box Date the site plan was created.

□ Existing subject property lot lines and dimensions.

□ Existing and proposed wastewater treatment systems and wells.

□ All buildings and all outdoor use and/or storage areas, existing and proposed, including provisions for water and sewer.

 $\hfill\square$ All dimension and required setbacks, side yards and rear yards.

□ Location and width of all existing and proposed driveway entrances onto public and private roadways, and of all interior roads or driveways.

 $\hfill\square$ Location and dimensions of any existing utilities, easements or rights-of-way.

 \Box Parking lot layout in compliance with s. <u>10.102(8)</u>.

□ Proposed loading/unloading areas.

□ Zoning district boundaries in the immediate area. All districts on the property and on all neighboring properties must be clearly labeled.

All relevant natural features, including navigable and non-navigable waters, floodplain boundaries, delineated wetland areas, natural drainage patterns, archeological features, and slopes over 12% grade.

□ Location and type of proposed screening, landscaping, berms or buffer areas if adjacent to a residential area.

 \Box Any lighting, signs, refuse dumpsters, and possible future expansion areas.

□ NEIGHBORHOOD CHARACTERISTICS. Describe existing land uses on the subject and surrounding properties:

□ Provide a brief written statement describing the current use(s) of the property on which the conditional use isproposed.

□ Provide a brief written statement documenting the current uses of surrounding properties in the neighborhood.

OPERATIONS PLAN AND NARRATIVE. Describe in detail the following characteristics of the operation, as applicable:

□ Hours of operation.

□ Number of employees, including both full-time equivalents and maximum number of personnel to be on the premises at any time.

□ Anticipated noise, odors, dust, soot, runoff or pollution and measures taken to mitigate impacts to neighboring properties.

Descriptions of any materials stored outside and any activities, processing or other operations taking place outside an enclosed building.

□ Compliance with county stormwater and erosion control standards under <u>Chapter 11</u> of <u>Chapter 14</u>, Dane County Code.

□ Sanitary facilities, including adequate private onsite wastewater treatment systems and any manure storage or management plans approved by the Madison and Dane County Public Health Agency and/or the Dane County Land and Water Resources Department.

 $\hfill\square$ Facilities for managing and removal of trash, solid waste and recyclable materials.

□ Anticipated daily traffic, types and weights of vehicles, and any provisions, intersection or road improvements or other measures proposed to accommodate increased traffic.

A listing of hazardous, toxic or explosive materials stored on site, and any spill containment, safety or pollution prevention measures taken.

□ Outdoor lighting and measures taken to mitigate light-pollution impacts to neighboring properties.

 \Box Signage, consistent with section <u>10.800</u>.

□ ADDITIONAL MATERIALS. Additional information is required for certain conditional uses listed in s. <u>10.103</u>:

Agricultural entertainment, special events, or outdoor assembly activities anticipating over 200 attendees must file an eventplan.

Domestic pet or large animal boarding must provide additional information in site and operations plans.

□ Communication towers must submit additional information as required in s. <u>10.103(9)</u>.

□ Farm residences proposed in the FP-35 district must submit additional information as required in s. <u>10.103(11)</u>.

 \Box Mineral extraction proposals must submit additional information as required in s. <u>10.103(15)</u>.

EXHIBIT B



June 6, 2023

Dane County Planning & Development Attn: Majid Allan 210 Martin Luther King Jr. Blvd, room 116 Madison, WI 53703

RE: Dane County Communication Tower Ordinance – Section 10.103 / Project Narrative / Telecommunications Tower Facility on Parcel #061129491404 / 1896 Williams Drive Stoughton, WI [Lake Kegonsa]

Dear Mr. Allan,

After evaluating Verizon Wireless's search area in which it is seeking to install new telecommunication antennas, no existing structures were located that would allow Verizon to achieve its network objective. As a result, the proposed telecommunications tower facility is required to allow Verizon to improve its customer experience and address its network objective.

If you have any questions regarding this request, please contact me directly at (630)746-5433 or pgray@mountainltd.com.

Sincerely,

Trish Gray Agent on Behalf of Verizon Wireless MOUNTAIN LTD.

EXHIBIT C



Verizon Wireless 1701 Golf Rd, Tower2 Suite 400 Rolling Meadows, IL 60008

Lake Kegonsa – Search Area

VZW network needs were identified within proximity to Lake Kegonsa and the Company identified a one quarter mile search radius centered around the Search Ring Center as depicted in the below maps. An initial land search within a one quarter mile radius yielded no prospective candidates and the best and closest option to the Company's preferred search area is the candidate being presented.



Overall Search Area Map



Verizon Wireless 1701 Golf Rd, Tower2 Suite 400 Rolling Meadows, IL 60008

Detailed Search Area Map



EXHIBIT D

RF Affidavit

Proposed Mobile Service Facility 1896 Williams Drive, Stoughton, WI 53589

verizon

November &, 2023

Lake Kegonsa

OVERVIEW

This RF Affidavit has been prepared on behalf of Venzon Wireless in support of TowerNorth's proposal for the installation and operation of a mobile service support structure and associated mobile service facility located at 1896 Williams Drive, Stoughton, WI 53589. The proposed facility will consist of ground-based equipment cabinets along with antennas and associated equipment mounted on the proposed 180' self-support tower.

This report concludes that the proposed site will provide additional capacity to Dane County to improve deficient service areas in the City of Stoughton, and the surrounding roads, neighborhoods, businesses, and residents in proximity to the proposed site.

Included in this report is: a summary of the site's objectives, maps showing Verizon Witeless' current network plan, and modeled Radio Frequency coverage of the subject site and the surrounding sites in Verizon Wireless' network complied by Hemal Parikh Verizon Wireless RF Engineer. He is currently an RF Design engineer for Verizon Wireless and graduated from Purdue University with a degree in Electrical Engineering, he is familiar with Verizon Wireless' network needs in the Dane County area and has been the RF engineer for the area for the past 4 years.

INTRODUCTION

Verizon Wireless provides digital voice and data communications services using 3rd Generation (3G) CDMA/EVDO technology in the Cellular (800 MHz) and PCS (1900 MHz) frequency bands and deploying advanced 4th Generation (4G) voice and data services over LTE technology in the 700 MHz, Cellular, PCS, AWS (2100 MHz), and is in the midst of deploying 5th Generation (5G) C-Band (3.7-3.9 GHz) frequency bands as allocated by the FCC. These networks are used by mobile devices for fast web biowsing, media streaming, and other applications that require broadband connections. The mobile devices that benefit from these advanced networks are not limited to basic handheld phones, but also include devices such as smartphones, PDA's, tablets, and laptop an-cards. With the evolving rollout of 4G & 5G services and devices, Verizon Wireless customers will have even faster connections to people, information, and entertainment.

For Verizon Wireless' network to function effectively, there must be adequate overlapping coverage

between the "serving cell" and adjoining cells. This not only allows a user to access the network initially, but also allows for the transfer or "hand-off" of calls and data transmissions from one cell to another and prevents unintended disconnections or "dropped calls."

Verizon Wileless' antennas also must be located high enough above ground level to allow transmission (a k a propagation) of the radio frequency signals above trees, buildings, and other natural or man-made structures that may obstruct or diminish the signals. Areas without adequate radio frequency coverage have substandard service, characterized by dropped and blocked calls, slow data connections, or no wireless service at all, and are commonly referred to as coverage gaps

The size of the area potentially served by each cell site depends on several factors including the number of antennas used, the height at which the antennas are deployed, the topography of the surrounding land, vegetative cover, and natural or man-made obstructions in the area. The actual service area at any given time also depends on the number of customers who are on the network in range of that cell. As customers move throughout the service area, the transmission from the phone or other device is automatically transferred to the Verrizon Wireless facility with the best reception, without interruption in service, provided there is overlapping coverage between the cells.

We have concluded that by installing the proposed wireless communication facility at 1896 Williams Drive, Stoughton, WI 53589, at an antenna centerline height of 175' AGL (above ground level), Venzon Wireless will be able to provide improved capacity to residents, businesses, and traffic confiders within Stoughton that are currently located within the gap in optimal service of Venzon Wireless' network.

THE PROPOSED FACILITY

Verizon Wireless' plan for this proposed facility would consist principally of the following elements:

- 1) A fenced equipment lease area of 65' x 65' within TowciNoith's overall 100' x 100' lease parcel;
- 2) Telecommunication equipment cabinets with utility connections to the proposed H-frame and other utility sources within the proposed compound;

- 3) Twelve (12) antennas (four per sector) mounted on the proposed 180' self-support tower, at a centerline elevation of between 175' AGL,
- Remote Radio Units (RRU) with accessory junction boxes, hybrid cabling, and surge suppressors mounted along with the antennas

The minimum required elevation above the mean sea level necessary to provide the services is 180'.

SITE SEARCH AND SELECTION PROCESS

To find a site that provides acceptable coverage, adequate capacity, and fills the gaps in service, computer modeling software is used to define a search area. The search ring identifies the area within which a site could be located (assuming sufficient height is considered) that would have a high probability of addressing the significant coverage gap and/or meeting the capacity objectives established by the Verizon Wireless RF (Radio Frequency) engineers.

Once a search ring is determined, Veiizon Wireless' ieal estate specialists search within the proximity of the defined area – in this case within a ¼ mile radius from the search ring center – for existing buildings, towers, and other structures of sufficient height that would meet the defined objectives. The search ring center for this site is 42 94302, -89.2256. If none are found, then the focus shifts to "raw land" sites.

A suitable site must satisfy the technical requirements identified by the RF engineers, must be available for lease, and must have access to a road and be otherwise suitable for constructing a cell site of the required size and height. Every effort is made to use existing structures before pursuing a "raw land" build to minimize the number of new towers throughout the cities and towns being served.

In accordance with the requirements of Sections 10.103(9)(b)1.b.ii and 10.103(9)(c)1 of the Dane County Ordinances, Verizon Wireless is pursuing the proposed "raw land" site instead of collocation because its real estate specialists were unable to locate any existing mobile service support structures or other tall structures (over 100 feet in height) within 1.5 miles of the center of the search ring for Verizon Wireless to consider.

The proposed site gives coverage to Lake Kegonsa better than the ATC Tower located at 42.96259,

-89.17975, which was considered, but rejected. The proposed site will provide for greater coverage with the areas surrounding Lake Kegonsa than the vetted ATC Tower does. The ATC tower is missing key areas around Lake Kegonsa compared to the proposed site. The proposed site will alleviate the capacity needs in the area compared to the ATC tower.

CAPACITY OBJECTIVES

Venzon Wireless is in the process of expanding its 4G LTE high-speed wireless broadband system in the 700 MHz, Cellulai, PCS, and AWS frequency bands and in the midst of deploying 5G (C-Band) Frequency bands, in accordance with its licenses from the FCC. In order to expand and enhance their wireless services throughout Wisconsin, Verizon Wireless must address capacity, interference, and high-speed broadband issues. As part of this effort, Verizon Wireless has determined that significant gaps in service exist in and around sections of Stoughton as described further below.

Venzon Wneless currently operates wireless facilities similar to the proposed facility within the surrounding cities/towns. Due in large part to the distances between the existing sites, and volume of user traffic in the area, these existing facilities do not provide sufficient capacity to portions of the city. Specifically, Venzon Wneless determined that portions of Stoughton are without reliable service.

Although Verizon's specific network utilization metrics are confidential and proprietary, Verizon will attest to the following:

- Lack of capacity causes call blocking, which is the same as a lack of coverage to subscribers. This equates to dropped calls and inability to use service properly.
- Data consumption is increasing at an exponential rate and has already exceeded network capacity in the target area. The proposed site at 1896 Williams Drive will provide offload relief to six sectors, four of which are exhausted and require immediate relief.

New sites are very expensive and carriers/tower companies only build them when there are no other options to expand capacity. It is not something the carriers wish to do but must do to keep their service viable.

Lake Kegonsa

CAPACITY UTILIZATION

Although Verizon has coverage in the area, there are serious capacity constraints that can only be addressed with a new facility Once the new site is on air, utilization of available capacity will drop from the current level to a level which will allow for excess capacity for future increases in network usage.

CERTIFICATION OF NON-INTERFERENCE & RF EXPOSURE

Verizon Wireless certifies that the proposed facility will not cause interference to any lawfully operating emergency communication system, television, telephone or radio, in the surrounding area The FCC has licensed Verizon Wireless to transmit and receive in the Upper C-Block of the 700 MHz band, B Block of the Cellular (850 MHz) band, B Blocks of the PCS (1900 MHz) band, the A and B Blocks of the AWS (2100 MHz) band and A,B,&C Blocks of the C-BAND (3.7-3.9 GHz) RF spectrum. As a condition of the FCC licenses, Verizon Wireless is prohibited from interfering with other licensed devices that are being operated in a lawful manner. Furthermore, no emergency communication system, television, telephone, or radio is licensed to operate on these frequencies, and therefore interference is highly unlikely. Verizon confirms that this site will comply with all applicable FCC regulations regarding radio frequency safety and exposure limits.

SUMMARY

In undertaking its build-out of 4G LTE & 5G service in Dane County, Verizon Wireless has determined that an additional facility is needed to provide reliable service and additional capacity. Verizon Wireless determined that the proposed wireless communications facility at 1896 Williams Drive, Stoughton, WI 53589, at an antenna centerline height of approximately 175 feet (AGL) will provide additional coverage and capacity needed in the surrounding roads, neighborhoods, and ictail/dining/business establishments in proximity to the proposed site. Without the installation of the proposed site, Verizon Wireless will be unable to improve and expand their existing 4G & 5G wireless communication services in this area of Dane County; therefore, Verizon Wireless respectfully iequests that the Dane County act favorably upon the proposed facility iequest TowerNorth/Verizon Wireless

Hemal Parikh **RF** Engineer Verizon Wireless

STATE OF ILLINOIS

) COUNTY OF)

SS.

Subscribed and sworn to before me on S day of November, 2023, by Hemal Parikh.

1

NOTARY PUBLIC FOR ILLINOIS My Commission Expires: 17-22-2025

November

Date

SHARON A PETRIELLI Official Seal Notary Public - State of Illinois My Commission Expires Jul 22, 2025

7

Lake Kegonsa

2023

EXHIBIT E

CONSULTANT TEAM	PROJECT TYPE	VICINITY MAP N.T.S.			PROJE
PROJECT TERRA CONSULTING GROUP, LTD. CONSULTANT: 600 BUSSE HIGHWAY PARK RIDGE, IL 60068 (847) 698-6400	PROPOSED VERIZON WIRELESS ANTENNAS TO BE MOUNTED ON 180' SELF SUPPORT TOWER WITH PROPOSED 11'-0" x 4'-0" EQUIPMENT ON CONCRETE PAD AT BASE.	HS DR	ZONING: OCCUPAN		FP-35 GEN UNINHABI
SURVEYOR: MERIDIAN SURVEYING, LLC N8774 FIRELANE 1	SITE COORDINATES:	and the second se	PERMITTI		VILLAGE (SPRINGS /
MENASHA, WI 54952 (920) 993-0881	LATITUDE: 42° 57' 02.18" N (1A CERTIFICATION) LONGITUDE: 89° 13' 05.52" W (1A CERTIFICATION)		E911 ADD	DRESS:	TBD
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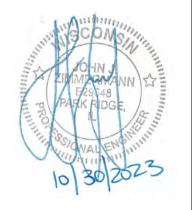
verizon

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

LOCATION NUMBER: 706115 MDG LOCATION NUMBER: 5000889243 SITE NAME: LAKE KEGONSA

SITE NAME: LAKE KEGONSA SITE NUMBER: WI1040-A

> 1896 WILLIAMS DR. STOUGHTON, WI 53589



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LP-2	ENLARGED LOCATION PLAN
LP-3	AERIAL EXHIBIT
C-1	ENGINEERING SITE PLAN
C-2	SITE GRADING PLAN (SHEE
C-2A	SITE GRADING PLAN (SHEE
C-3	FENCE DETAILS
C-4	SITE DETAILS
C-5	CONSTRUCTION NOTES
C-6	SITE SIGNAGE
L-1	LANDSCAPE PLAN
ANT-1	SITE ELEVATION
E-1	ELECTRICAL NOTES
E-2	UTILITY ROUTING PLAN
E-3	H-FRAME DETAILS
E-4	SINGLE LINE DIAGRAM & TR
E-5	SITE GROUNDING PLAN
E-6	GROUNDING DETAILS
EX-1	PHOTO EXHIBIT
VW LP	LOCATION PLAN
VW C-1	ENGINEERING SITE PLAN
VW C-2	SITE GRADING PLAN
VW C-3	EQUIPMENT PAD FOUNDATI
VW C-4	GENERATOR FOUNDATION
VW A-1	SITE ELEVATION & ANTENN
VW A-2	ANTENNA INFORMATION
VW A-2A	ANTENNA INFORMATION
VW A-3	SITE DETAILS
VW A-3A	ANTENNA MOUNTING DETA
VW A-4	SITE DETAILS
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VW E-1B	GENERATOR UTILITY ROUT
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VW E-4	SITE GROUNDING PLAN
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OTHER UTILITIES NOT INCLUDED IN DIGGERS HOTLINE AND LOCAL UTILITY DISTRICTS AND COMPANIES SHALL ALSO BE NOTIFIED

TowerNorth

750 W CENTER ST, SUITE 301

WEST BRIDGEWATER, MA 02379

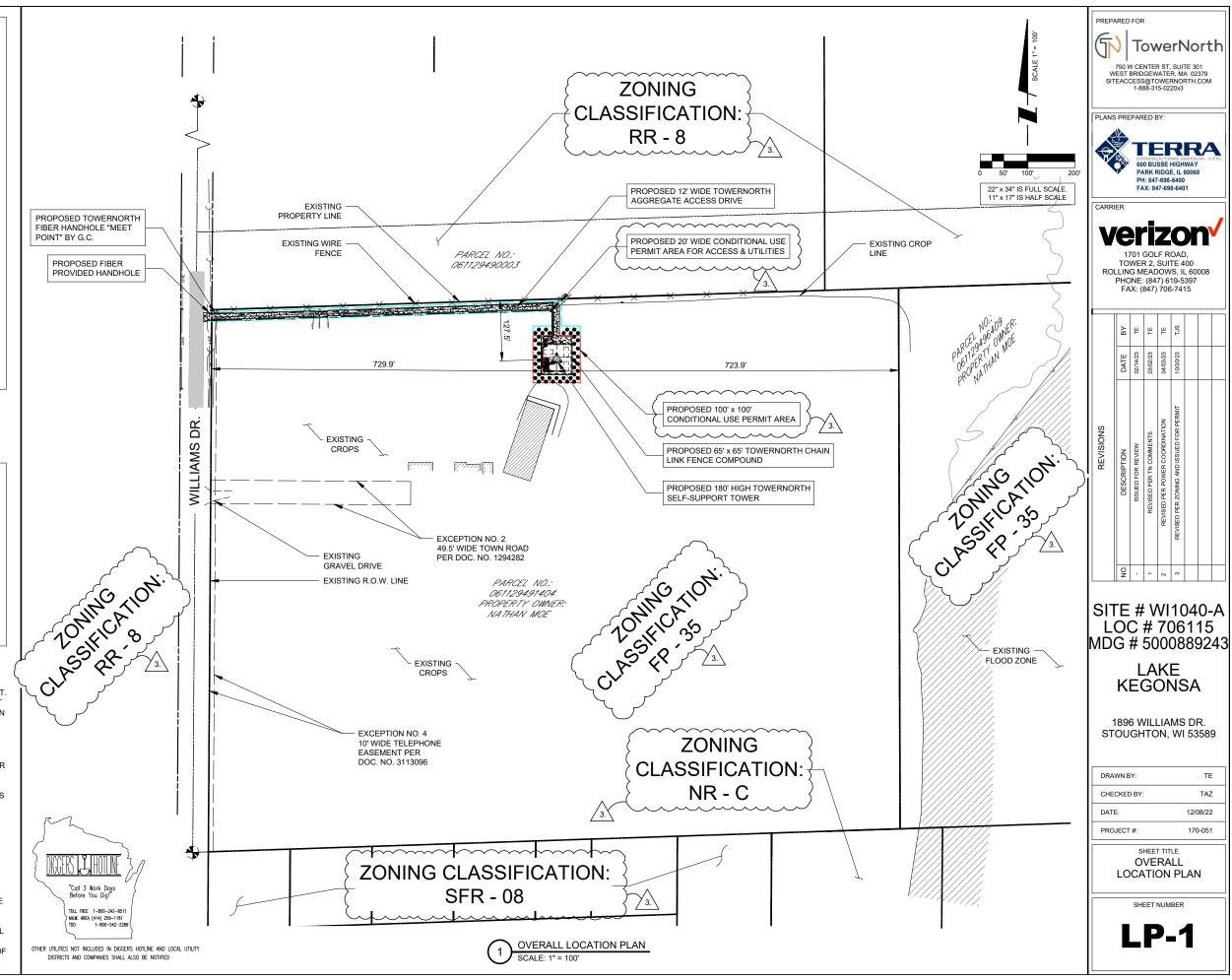
PHONE: (844) 748-8878 FAX: (508) 819-3017

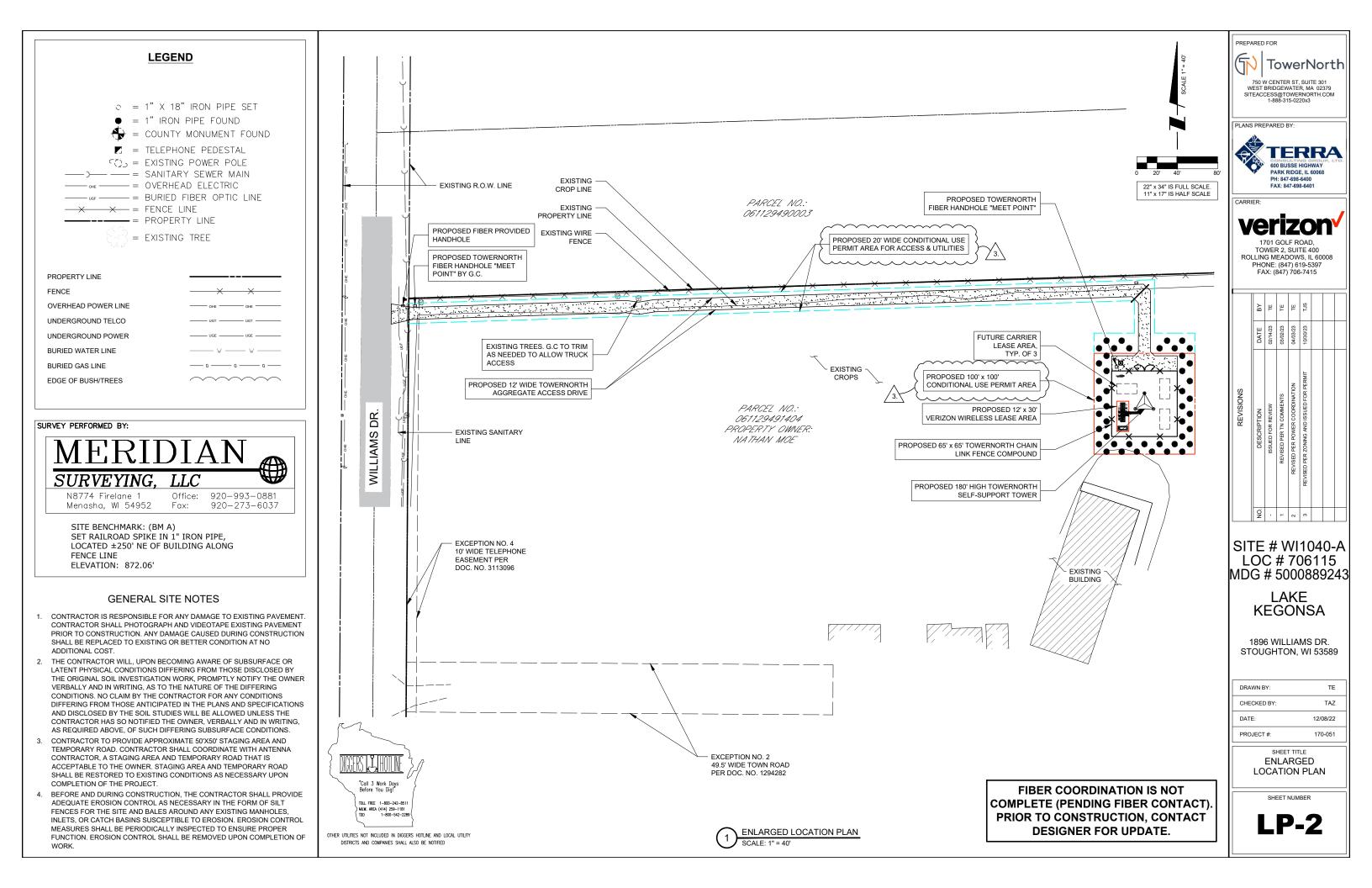
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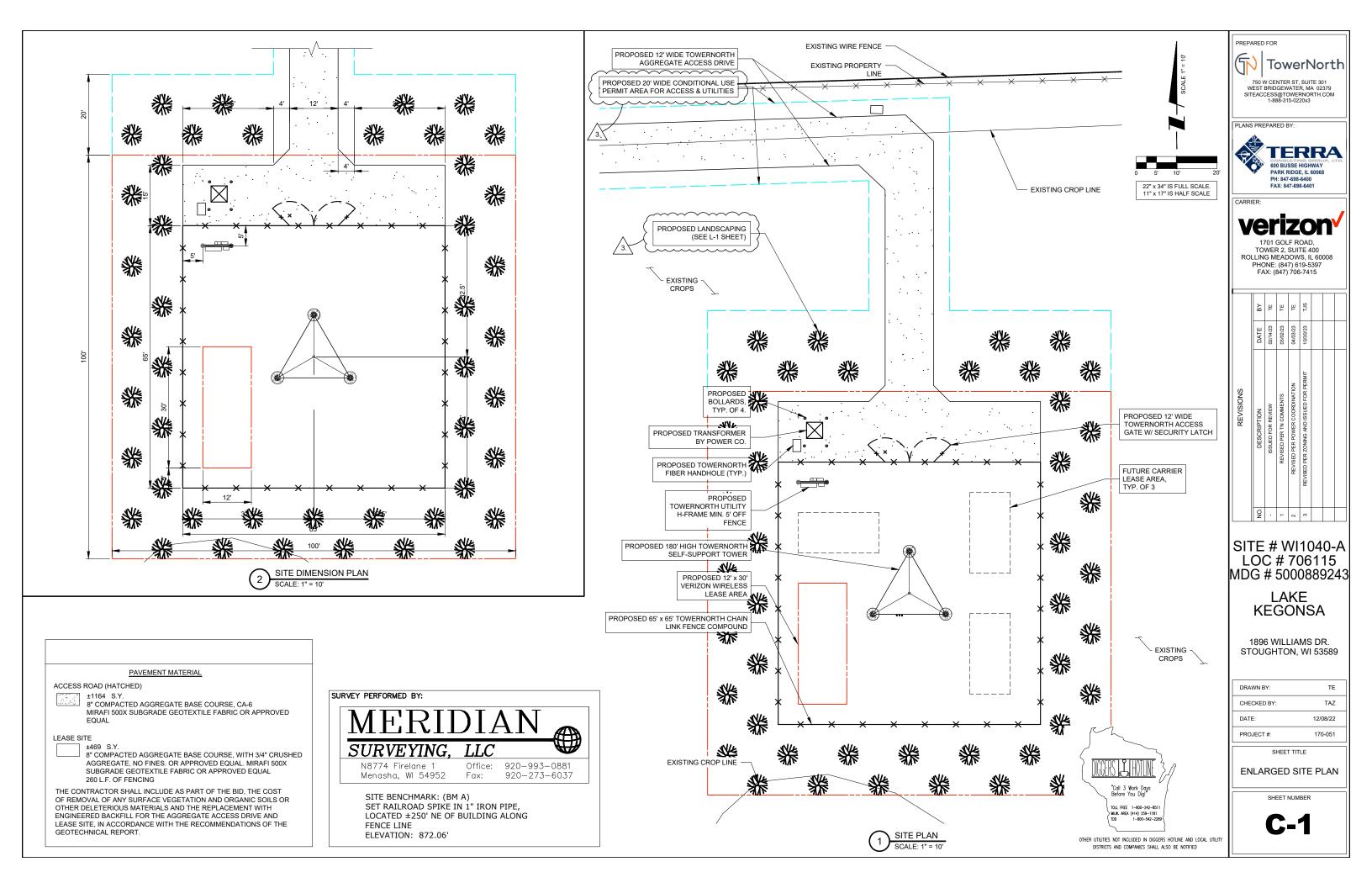
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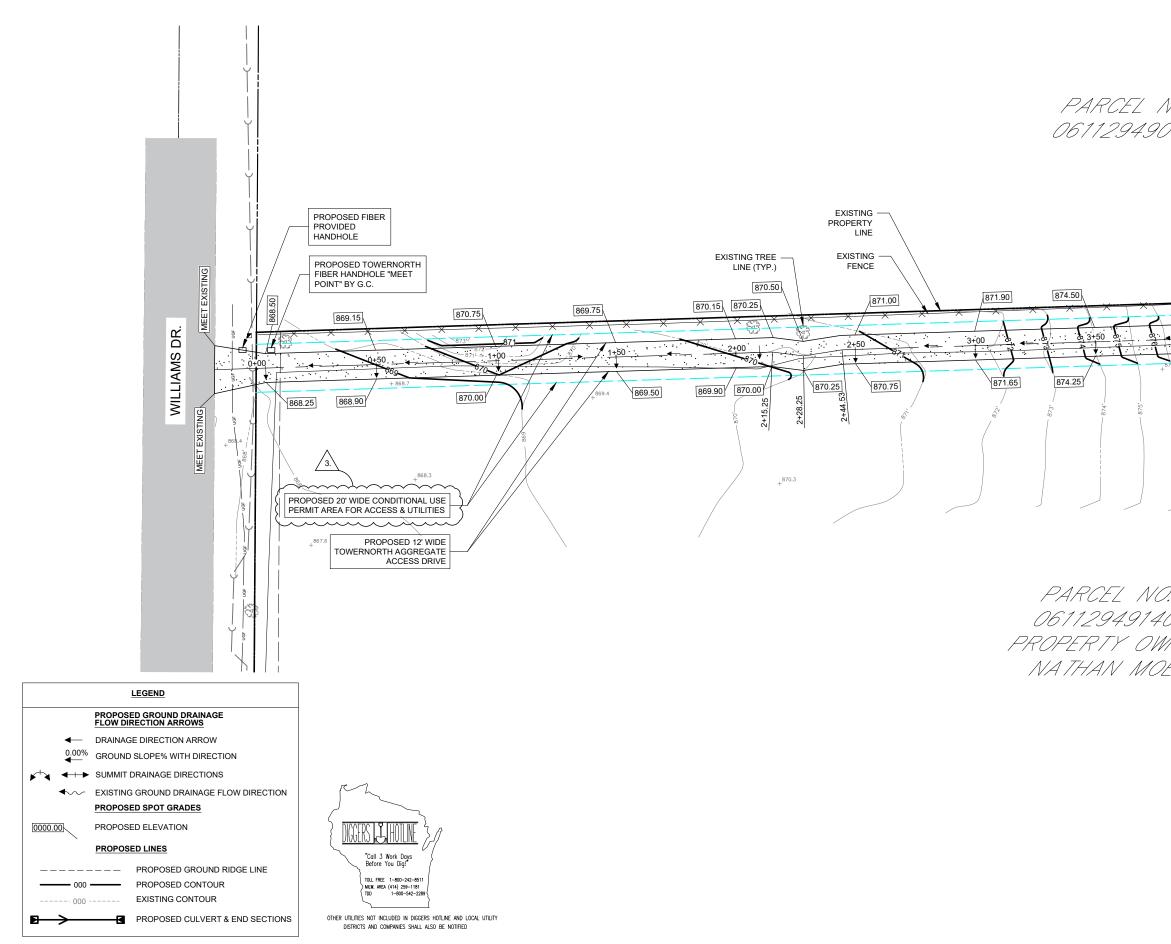
GENERAL SITE NOTES

- CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING PAVEMENT. CONTRACTOR SHALL PHOTOGRAPH AND VIDEOTAPE EXISTING PAVEMENT PRIOR TO CONSTRUCTION. ANY DAMAGE CAUSED DURING CONSTRUCTION SHALL BE REPLACED TO EXISTING OR BETTER CONDITION AT NO ADDITIONAL COST.
- THE CONTRACTOR WILL, UPON BECOMING AWARE OF SUBSURFACE OR 2. LATENT PHYSICAL CONDITIONS DIFFERING FROM THOSE DISCLOSED BY THE ORIGINAL SOIL INVESTIGATION WORK, PROMPTLY NOTIFY THE OWNER VERBALLY AND IN WRITING, AS TO THE NATURE OF THE DIFFERING CONDITIONS. NO CLAIM BY THE CONTRACTOR FOR ANY CONDITIONS DIFFERING FROM THOSE ANTICIPATED IN THE PLANS AND SPECIFICATIONS AND DISCLOSED BY THE SOIL STUDIES WILL BE ALLOWED UNLESS THE CONTRACTOR HAS SO NOTIFIED THE OWNER, VERBALLY AND IN WRITING, AS REQUIRED ABOVE, OF SUCH DIFFERING SUBSURFACE CONDITIONS.
- CONTRACTOR TO PROVIDE APPROXIMATE 50'X50' STAGING AREA AND 3 TEMPORARY ROAD. CONTRACTOR SHALL COORDINATE WITH ANTENNA CONTRACTOR, A STAGING AREA AND TEMPORARY ROAD THAT IS ACCEPTABLE TO THE OWNER. STAGING AREA AND TEMPORARY ROAD SHALL BE RESTORED TO EXISTING CONDITIONS AS NECESSARY UPON COMPLETION OF THE PROJECT.
- BEFORE AND DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE ADEQUATE EROSION CONTROL AS NECESSARY IN THE FORM OF SILT FENCES FOR THE SITE AND BALES AROUND ANY EXISTING MANHOLES, INLETS, OR CATCH BASINS SUSCEPTIBLE TO EROSION. EROSION CONTROL MEASURES SHALL BE PERIODICALLY INSPECTED TO ENSURE PROPER FUNCTION. EROSION CONTROL SHALL BE REMOVED UPON COMPLETION OF WORK.

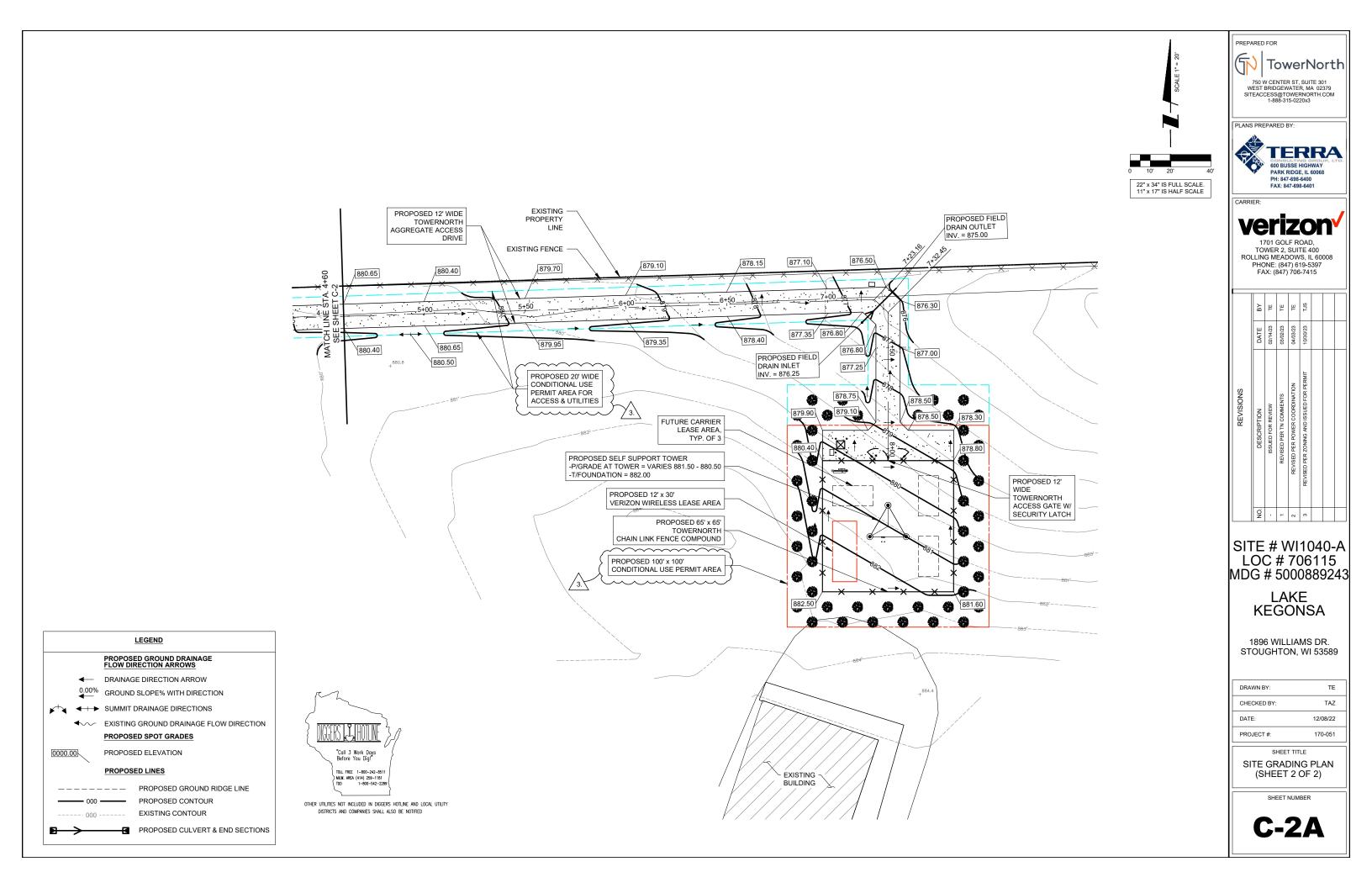


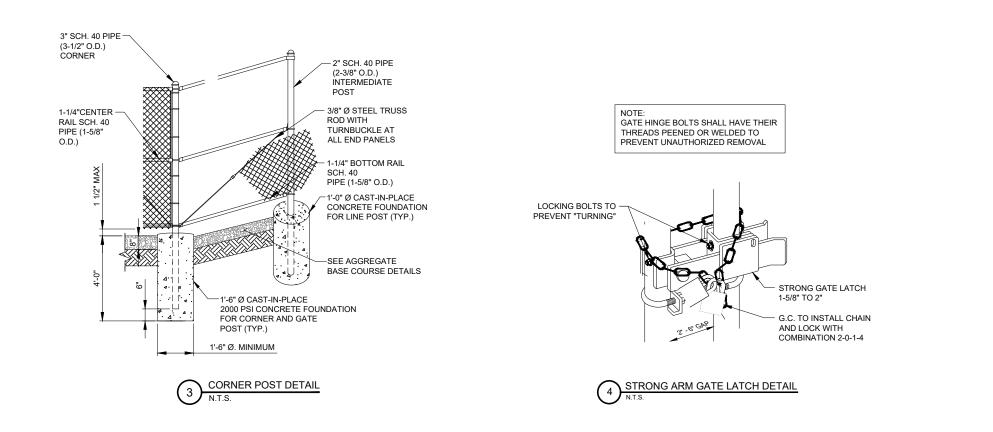
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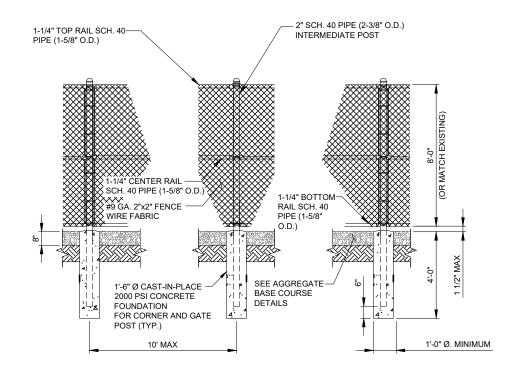


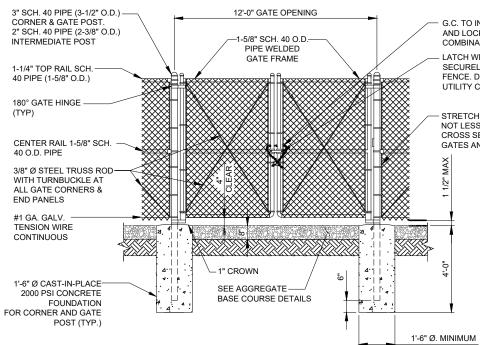
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12'-0" DOUBLE SWING GATE

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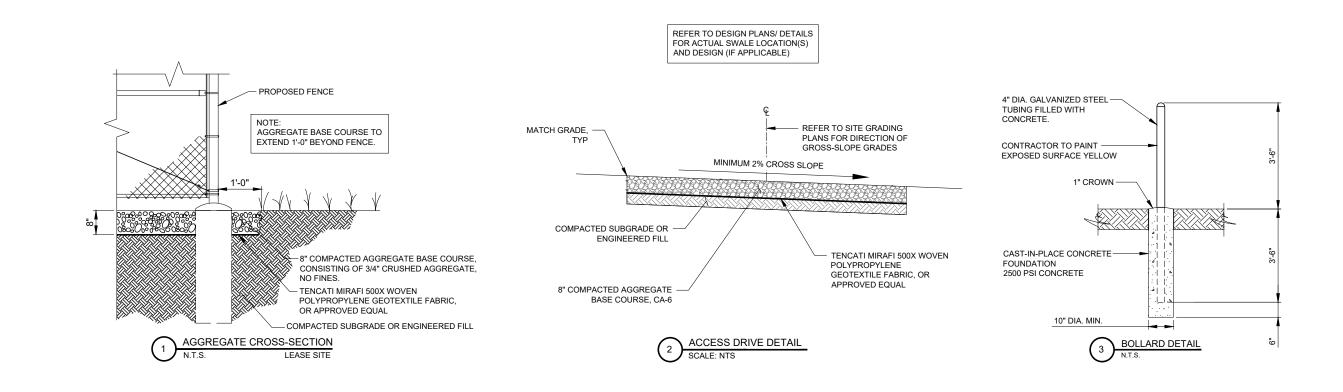
SECURELY FASTENED TO FENCE. DOUBLE LOCK FOR UTILITY CO. ACCESS

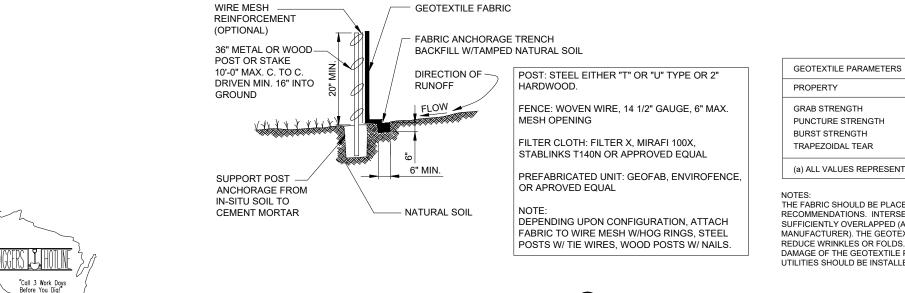
- STRETCHER BAR, FULL HEIGHT, NOT LESS THAN 3/16" x 3/4" MIN. CROSS SECTION ALL ALL GATES AND CORNER POST



OTHER UTILITIES NOT INCLUDED IN DIGGERS HOTLINE AND LOCAL UTILITY DISTRICTS AND COMPANIES SHALL ALSO BE NOTIFIED

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MINIMUM VALUE (a) TEST METHOD 180 LBS. 75 LBS. 290 LBS. ASTM D-3786 ASTM D-4571-87 50 I BS

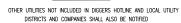
(a) ALL VALUES REPRESENT MINIMUM ROLL VALUES

EROSION CONTROL SILT FENCE DETAIL

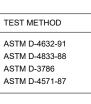
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N.T.S

THE FABRIC SHOULD BE PLACED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. INTERSECTIONS OF SHEETS MUST BE SOWN OR SUFFICIENTLY OVERLAPPED (AT LEAST 24 INCHES) OR AS SPECIFIED BY THE MANUFACTURER). THE GEOTEXTILE SHEETS SHOULD ALSO BE PLACED TAUT TO REDUCE WRINKLES OR FOLDS. CARE MUST BE EXERCISED TO PREVENT PHYSICAL DAMAGE OF THE GEOTEXTILE PRIOR TO, DURING AND AFTER INSTALLATION. UTILITIES SHOULD BE INSTALLED BEFORE PLACING THE FABRIC.

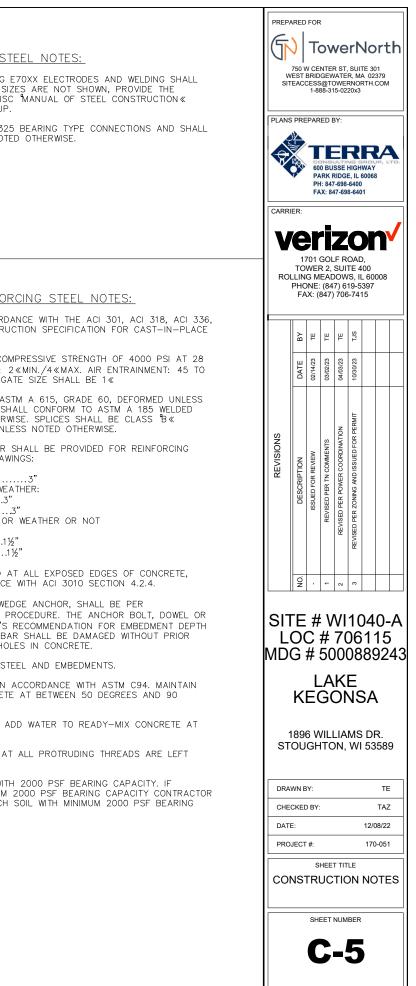


TOLL FREE 1-800-242-851 MILW. AREA (414) 259-1181 TDD 1-800-542-228



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verizon										
TOWER 2, SUITE 400 ROLLING MEADOWS, IL 60008 PHONE: (847) 619-5397 FAX: (847) 706-7415										
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	<u>GENERAL NOTES:</u>	SITE WORK GENERAL NOTES:	STRUCTURAL STE
1.	FOR THE PURPOSE OF THE CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS	1. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.	 ALL WELDING SHALL BE PERFORMED USING EX CONFORM TO AISC. WHERE FILLET WELD SIZE MINIMUM SIZE PER TABLE J2.4 IN THE AISC
	SHALL APPLY: CONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION) TOWER OWNER – TOWERNORTH DEVELOPMENT, LLC	DIRECTED BY ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR	PAINTED SURFACES SHALL BE TOUCHED UP.2. BOLTED CONNECTIONS SHALL BE ASTM A325 HAVE MINIMUM OF TWO BOLTS UNLESS NOTED
2.	PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.	WHEN EXCAVATION OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING & EXCAVATION.	
3.	ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE	3. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.	
	ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.	4. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.	
4.	ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.	5. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF OWNER AND/OR LOCAL UTILITIES.	CONCRETE AND REINFOR
5.	UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.		1. ALL CONCRETE WORK SHALL BE IN ACCORDAT ASTM A184 AND THE DESIGN AND CONSTRUC
6.	THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.	7. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER EQUIPMENT AND TOWER AREAS.	CONCRETE. 2. ALL CONCRETE SHALL HAVE A MINIMUM COMP
7.	IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY	8. NOFILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.	DAYS, UNLESS NOTED OTHERWISE, SLUMP: 2< 6% BY VOLUME. MAXIMUM COARSE AGGREGAT
8.	THE ENGINEER.	9. THE SUB GRADE UNDER THE PROPOSED EQUIPMENT PAD SHALL BE COMPACTED TO 95% PROCTOR AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.	 REINFORCING STEEL SHALL CONFORM TO AST NOTED OTHERWISE. WELDED WIRE FABRIC SHA STEEL. WIRE FABRIC UNLESS NOTED OTHERWIS AND ALL HOOKS SHALL BE STANDARD, UNLESS
9	GROUNDING CABLES AS SHOWN ON THE POWER & GROUNDING DRAWINGS.	BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE,	4. THE FOLLOWING MINIMUM CONCRETE COVER SI STEEL UNLESS SHOWN OTHERWISE ON DRAWIN
5.	LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.	AND STABILIZED TO PREVENT EROSION AS SPECIFIED IN THE PROJECT SPECIFICATIONS. 11. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN	CONCRETE CAST AGAINST EARTH CONCRETE EXPOSED TO EARTH OR WEAT
10.	CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY.	CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.	#6 AND LARGER
	CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.		CAST AGAINST THE GROUND: SLAB AND WALL
12.	CONTRACTOR SHALL HAVE A PRECONSTRUCTION MEETING WITH OWNER TO DISCUSS ALL ASPECTS OF THE CONSTRUCTION SCOPE OF THIS DRAWING TO ENSURE HE IS FAMILIAR AND UNDERSTANDS ALL REQUIREMENTS AND INTENT OF EACH ACTIVITY.		5. A CHAMFER OF 3/4° SHALL BE PROVIDED AT UNLESS NOTED OTHERWISE. IN ACCORDANCE
13.	THE GENERAL CONTRACTOR MUST VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS BEFORE STARTING WORK. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER AND SHALL BE RESOLVED BEFORE PROCEEDING WITH THE WORK. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER IN ACCORDANCE WITH ACCEPTED CONSTRUCTION PRACTICES.		6. INSTALLATION OF CONCRETE EXPANSION/WEDG MANUFACTURER'S WRITTEN RECOMMENDED PR ROD SHALL CONFORM TO MANUFACTURER'S R OR AS SHOWN ON THE DRAWINGS. NO REBAR CONTRACTOR APPROVAL WHEN DRILLING HOLE
14.	IT IS THE INTENTION OF THESE DRAWINGS TO SHOW THE COMPLETE INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING, SHORING,		7. WELDING IS PROHIBITED ON REINFORCING STEE
	TIES, FORMWORK, ETC. IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL ORDINANCES, TO SAFELY EXECUTE ALL WORK AND SHALL BE RESPONSIBLE FOR SAME. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES.		 ALL CONCRETE SHALL BE READY-MIXED IN A TEMPERATURE OF CAST IN PLACE CONCRETE DEGREES.
15.	THE CONTRACTOR SHALL USE ADEQUATE NUMBERS OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS, AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND METHODS NEEDED FOR		 DO NOT USE RETEMPERED CONCRETE, OR ADI THE JOBSITE.
10	PROPER PERFORMANCE OF THE WORK. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY		10. FOUNDATION INSTALLER SHALL INSURE THAT CLEAN AND FREE OF CONCRETE.
16.	ACCEPTED CONSTRUCTION RACTOR AGREES THAT IN ACCORDANCE WITH GENERALLT ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO INDEMNIFY AND HOLD DESIGN ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT. ALL WORK SHALL COMPLY WITH OSHA AND STATE SAFETY REQUIREMENTS. PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION.		11. FOUNDATION DESIGN IS BASED ON SOIL WITH EXISTING SOIL DOES NOT HAVE A MINIMUM 2 SHALL EXTEND PERIMETER BEAM TO REACH S CAPACITY.



ALL SIGNS TO BE PROVIDED AND INSTALLED BY GC UNLESS OTHERWISE NOTED.



12"

FCC REGISTRATION SIGN WHITE/ GREEN BACKGROUND, WHITE/ BLACK LETTERING. MOUNTING LOCATION: GATE & BASE OF TOWER QUANTITY: 2 WHERE ACCESS GATE INSTALLED (QTY. 3)



14"

DANGER NO TRESPASSING SIGN WHITE/ BLACK BACKGROUND, WHITE/BLACK LETTERING. MOUNTING LOCATION: GATE & BASE OF TOWER QUANTITY: 2 WHERE ACCESS GATE INSTALLED (QTY. 3)



14"

AUTHORIZED PERSONNEL SIGN

WHITE/ BLACK BACKGROUND, WHITE/BLACK LETTERING. MOUNTING LOCATION: GATE & BASE OF TOWER QUANTITY: 2 WHERE ACCESS GATE INSTALLED (QTY. 3)



TOWERNORTH SIGN

WHITE/ BLACK BACKGROUND, BLUE LETTERING. MOUNTING LOCATION: GATE QUANTITY: 1 WHERE ACCESS GATE INSTALLED AND COMPOUND IS NOT VISIBLE FROM MAIN ROAD (QTY. 2) (PROVIDED BY TOWER OWNER)

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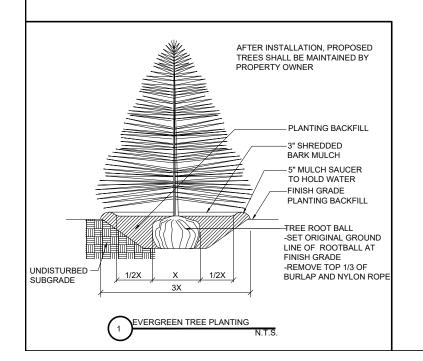
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TOWER 2, SUITE 400 ROLLING MEADOWS, IL 60008 PHONE: (847) 619-5397 FAX: (847) 706-7415										
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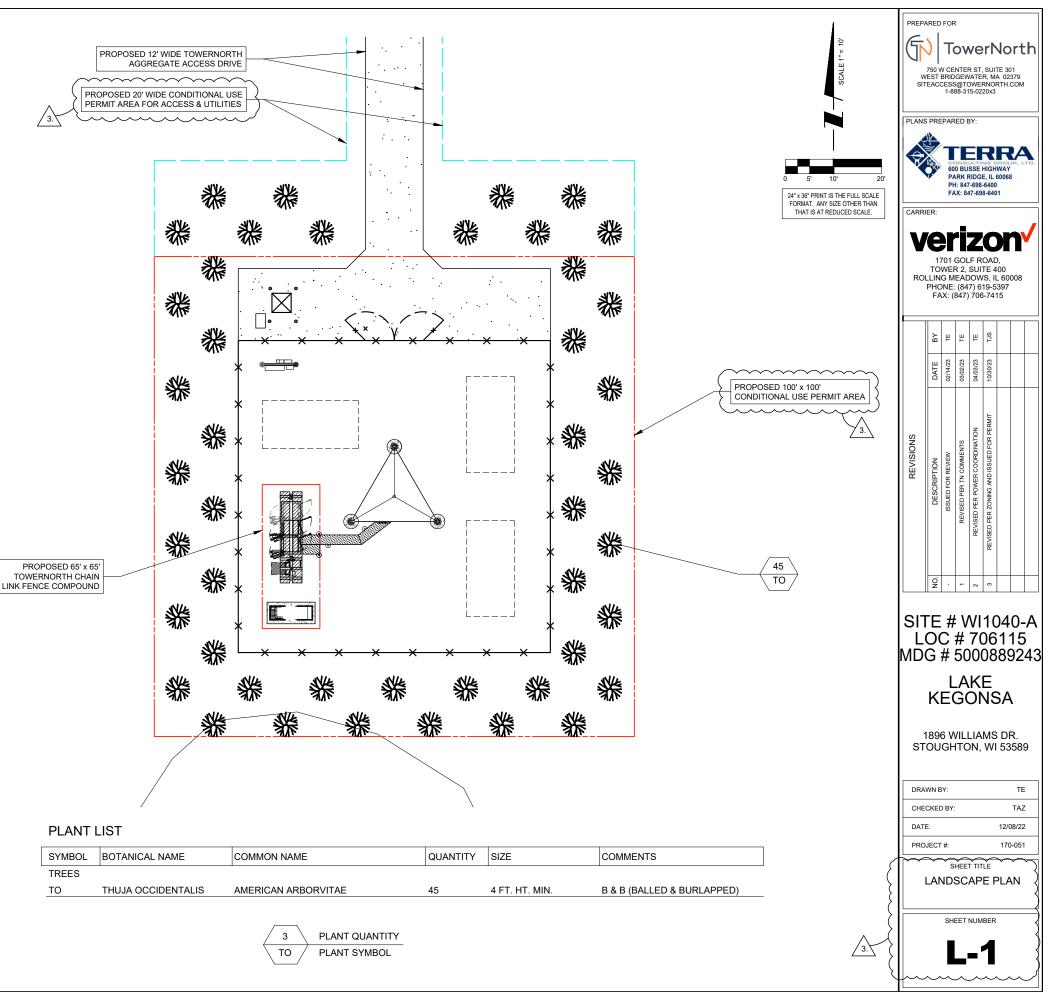
GENERAL LANDSCAPE NOTES

- PRUNE NEWLY INSTALLED SHRUBS. WORK SHALL BE DONE BY EXPERIENCED 1. PERSONNEL TO THE ACCEPTED HORTICULTURAL AND ARBORICULTURAL STANDARDS. PRUNING SHALL RESULT IN A LOOSE OUTLINE CONFORMING TO THE GENERAL SHAPE OF THE SHRUB TYPE. DO NOT USE HEDGE SHEARS.
- ALL PLANTING STOCK SHALL BE NURSERY-GROWN IN ACCORDANCE WITH GOOD 2. HORTICULTURAL PRACTICE. PLANTS SHALL BE FREE OF DISEASE, INSECTS EGGS, LARVAE AND DEFECTS SUCH AS KNOTS, SUN-SCALD, INJURIES, ABRASIONS OR DISFIGUREMENT. THEY SHALL HAVE SOUND, HEALTHY VIGOROUS AND UNIFORM GROWTH TYPICAL OF THE SPECIES AND VARIETY, WELL-FORMED, FREE FROM IRREGULARITIES, WITH THE MINIMUM QUALITY AND SIZE CONFORMING TO AMERICAN STANDARD FOR NURSERY STOCK.
- 3. GUARANTEE: WARRANT ALL PLANT MATERIAL TO BE TRUE TO BOTANICAL NAME AND SPECIFIED SIZE. AFTER COMPLETION OF PLANTING, ALL PLANT MATERIALS SHALL BE WARRANTED AGAINST DEFECTS, INCLUDING DEATH AND UNSATISFACTORY GROWTH FOR A WARRANTY PERIOD OF ONE YEAR. THE CONTRACTOR WILL NOT BE RESPONSIBLE FOR DEFECTS RESULTING FROM NEGLECT ABUSE, DAMAGE BY OTHERS, OR UNUSUAL PHENOMENA OR INCIDENTS BEYOND THE CONTRACTORS CONTROL WHICH RESULT FROM NATURAL CAUSES SUCH AS FLOODS STORMS, FIRES OR VANDALISM. REPLACEMENTS: DURING THE WARANTY PERIOD, REPLACE ONE TIME, AT NO

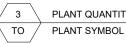
ADDITIONAL COST TO THE OWNER, PLANT MATERIALS THAT ARE DEAD, OR IN THE OPINION OF THE LANDSCAPE ARCHITECT, IN AN UNHEALTHY OR UNSIGHTLY CONDITION. REJECTED PLANT MATERIALS SHALL BE REMOVED FROM THE SITE AT CONTRACTOR'S EXPENSE. REPLACEMENTS ARE TO BE MADE NO LATER THAN THE SUBSEQUENT PLANTING SEASON. RESTORE AREAS DISTURBED BY REPLACEMENT OPERATIONS.

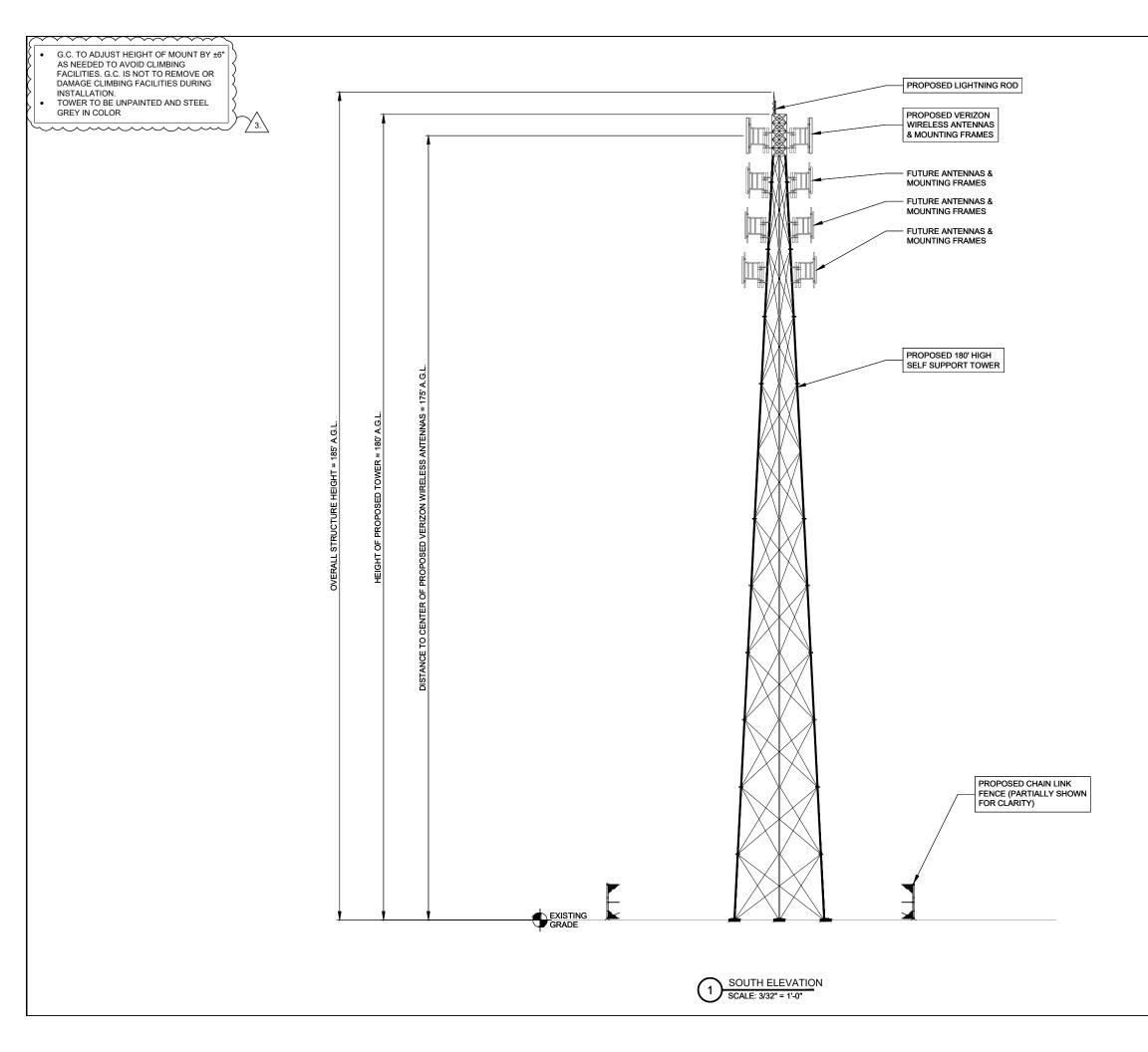
- MULCHING SHALL BE DONE WITHIN 48 HOURS AFTER PLANTING. MULCH SHRUB 4. BEDS TO A UNIFORM DEPTH OF THREE INCHES. MULCH SHALL BE CLEAN COMPOSTED PINE BARK MULCH FREE OF FOREIGN MATERIAL AND LARGE PIECES OVER THREE INCHES LONG. DO NOT MULCH TREE AND SHRUB PLANTING PITS.
- TOPSOIL SHALL CONSIST OF FERTILE FRIABLE NATURAL LOAM, CONTAINING A 5. LIBERAL AMOUNT OF HUMUS AND SHALL BE SUBJECT TO INSPECTION AND APPROVAL. IT SHALL BE FREE OF ADMIXTURES OF SUBSOIL AND FREE OF CRAB GRASS, ROOTS, STICKS AND OTHER EXTRANEOUS MATTER, AND SHALL NOT BE USED FOR PLANTING OPERATIONS WHILE IN A FROZEN OR MUDDY CONDITIONS.
- 6. REPAIR ALL TURF AREAS BY SEEDING. SEEDING INSTALLATION SHALL BE EXECUTED ONLY AFTER ALL FINISH GRADING HAS BEEN COMPLETED. NO SEEDING WORK SHALL BE DONE PAST SEPTEMBER 15, UNLESS APPROVED BY THE OWNER'S REPRESENTATIVE. SEED: SEED MIX SHALL MATCH EXISTING TURF, OR BE A 50/50 MIX OF CERTIFIED IMPROVED BLEND OF BLUEGRASS AND CERTIFIED IMPROVED PERENNIAL RYE. MIX SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO PLANTING. SEEDING SHALL BE APPLIED AT A MINIMUM RATE OF 120 POUNDS PER ACRE. FUTERRA BLANKET, OR EQUAL, SHALL BE USED FOR EROSION CONTROL MULCH WHERE NECESSARY IN LIEU OF HYDRO MULCH.





SYMBOL	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE	COMMEN
TREES					
ТО	THUJA OCCIDENTALIS	AMERICAN ARBORVITAE	45	4 FT. HT. MIN.	B & B (BA





PREPARED FOR TowerNorth 750 W CENTER ST, SUITE 301 WEST BRIDGEWATER, MA 02379 SITEACCESS@TOWERNORTH.COM 1-888-315-0220x3 PLANS PREPARED BY: TERRA **S** 600 BUSSE HIGHWAY PARK RIDGE, IL 60068 PH: 847-698-6400 FAX: 847-698-6401 CARRIER verizo 1701 GOLF ROAD, TOWER 2, SUITE 400 ROLLING MEADOWS, IL 60008 PHONE: (847) 619-5397 FAX: (847) 706-7415 2 DATE 02/14/23 03/02/23 04/03/23 10/30/23 REVISIONS DESCRIPTION ISSUED FOR REVIEW REVISED PER TN COMMENTI VISED PER POWER COORDINY VISED PER ZONING AND ISSUED FC <u>0</u> - - <u>0</u> SITE # WI1040-A LOC # 706115 MDG # 5000889243 LAKE **KEGONSA** 1896 WILLIAMS DR. STOUGHTON, WI 53589 DRAWN BY: TE TAZ CHECKED BY DATE: 12/08/22 PROJECT #: 170-051 SHEET TITLE SITE ELEVATION SHEET NUMBER **ANT-1**

SCALE: 3/32"=1'-0"

22" x 34" PRINT IS THE FULL SCALE FORMAT. ANY SIZE OTHER THAN THAT IS AT REDUCED SCALE.

ELECTRICAL INSTALLATION NOTES

- 1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
- 2. ALL ELECTRICAL EQUIPMENT AND ACCESSORIES SHALL BE U.L. APPROVED OR LISTED.
- CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED. .3
- WRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC. 4
- ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC. 5.
- 6. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
- 7. EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, ½ INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NE & OSHA.
- 8. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (IE., PANELBOARD AND CIRCUIT ID'S).
- 9. PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
- 10. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2 OR XHHW-2, STRANDED COPPER CABLE RATED FOR 90'C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- 11. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE USE-2 CABLE (314 AWG OR LARGER), 600 V, OIL RESISTANT RHW-2 OR XHHW-2, STRANDED COPPER CABLE RATED FOR 90'C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
- 12. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 90'C.
- 13. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
- 14. ELECTRICAL METALLIC TUBING (EMT) OR RIGID METALLIC CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- 15. ELECTRICAL METALLIC TUBING (EMT) OR RIGID METALLIC CONDUIT (RMC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- 16. RIGID NON-METALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR IN ARES OF HEAVY VEHICLE TRAFFIC. GALVANIZED RIGID CONDUIT SHALL BE USED.
- 17. ALL OUTDOOR EXPOSED CONDUIT SHALL BE RMC AND SHALL BE SUPPORTED ADEQUATELY.
- 18. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT LTMC) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED. LFMC SHALL CONFORM TO NEC ARTICLE 350.
- 19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
- 20. CABINETS, BOXES, AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
- 21. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
- 22. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- 23. METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- 24. NON-METALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- 25. CONTRACTOR SHALL APPLY FOR ELECTRICAL SERVICE AS SOON AS POSSIBLE AND COORDINATE REQUIREMENTS, SERVICE ROUTING, AND METER SOCKET TYPE WITH LOCAL POWER COMPANY

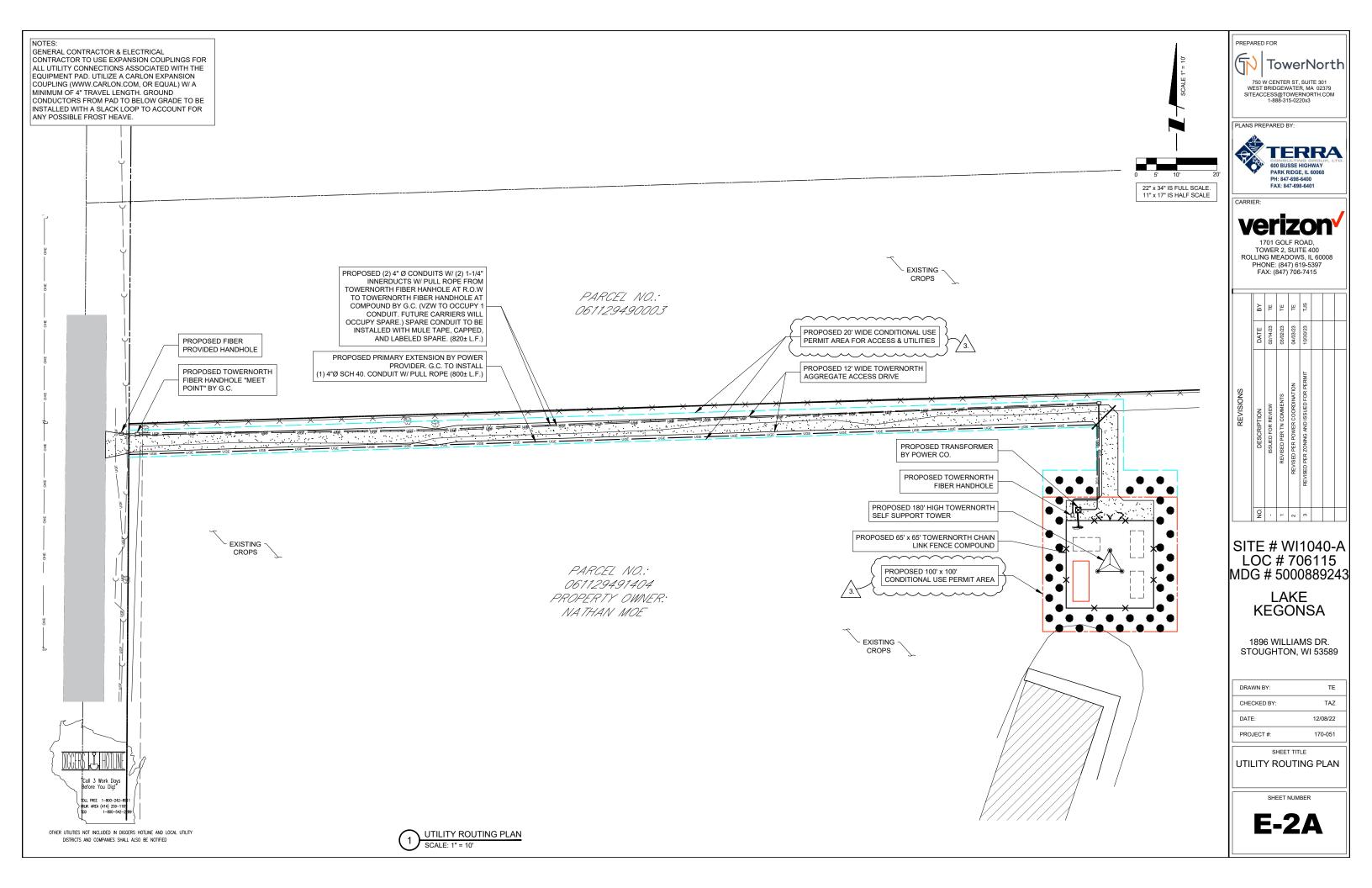
ELECTRICAL INSTALLATION NOTES (CONT.)

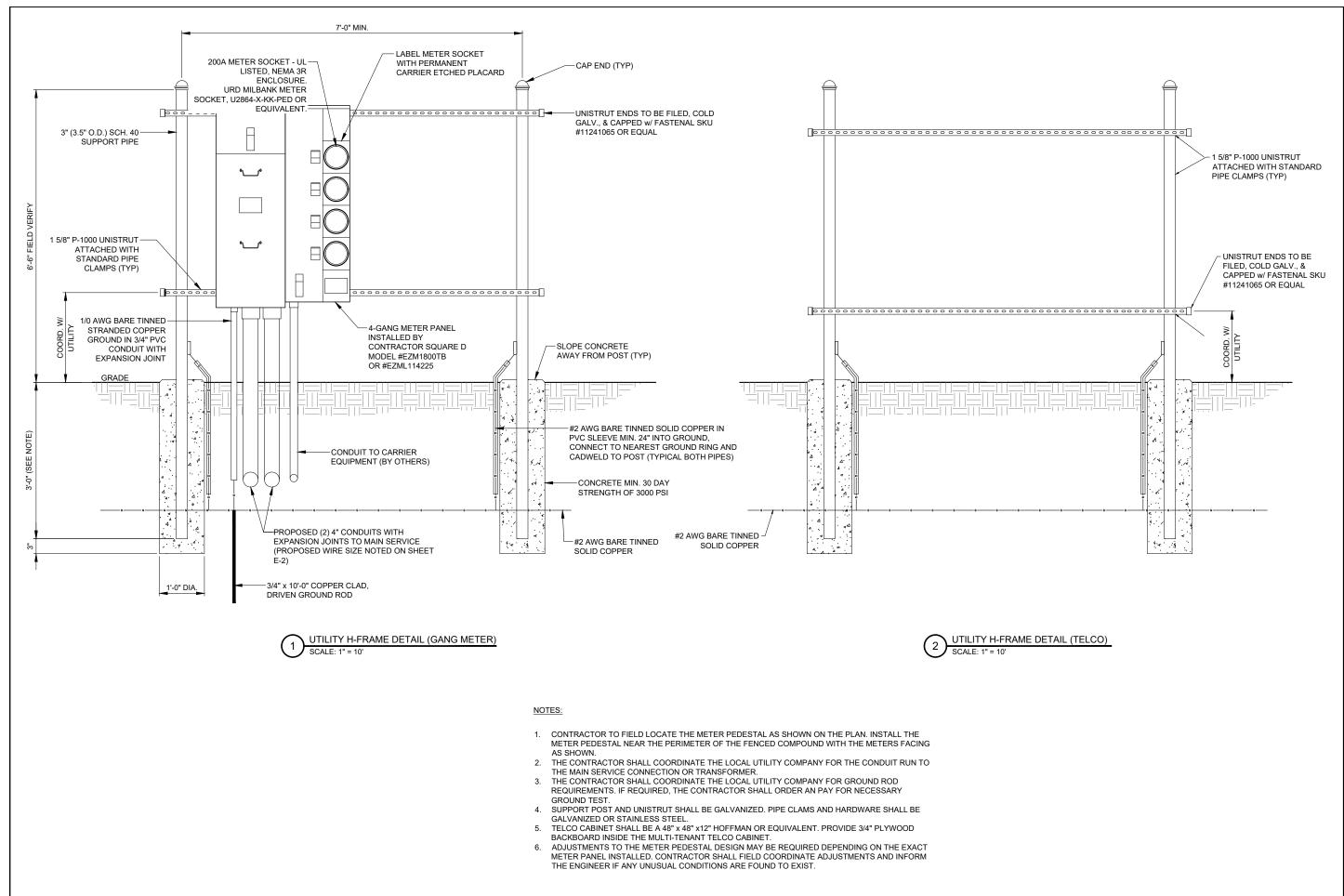
- 26. CONTRACTOR SHALL APPLY FOR TELEPHONE SERVICE AS SOON AS POSSIBLE AND COORDINATE REQUIREMENTS AND SERVICE ROUTING WITH TELEPHONE COMPANY.
- 27. CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY PERMIT FEES, AND SCHEDULE INSPECTIONS.
- 28. ALL SAFETY SWITCHES SHALL BE NEMA 1 FOR INDOOR, NEMA 3R FOR OUTDOOR, UL LISTED 200K SCCR RATED, REJECTION TYPE, WITH RK1 FUSES. FUSES SHALL HAVE AN AIR OF 200K AND SHALL HAVE A LIMITING RATING AS SHOWN IN THESE DRAWINGS. EQUIPMENT AND ACCESSORIES SHALL BE RATED FOR 75 DEGREES CELSIUS OR HIGHER.
- 29. ALL LOAD CENTERS SHALL BE 42 SPACE UNLESS NOTED OTHERWISE, NEMA 1 FOR INDOOR, NEMA 3R FOR OUTDOOR, MCB WITH CONVERTIBLE MAINS, UL LISTED 22K IA OR HIGHER SCCR, WITH 22K AIR BREAKERS, BREAKERS AND LOAD CENTER SHALL BE RATED FOR 75 DEGREES CELSIUS OR HIGHER. BREAKERS SHALL HAVE A LIMITING RATING AS SPECIFIED ON THESE DRAWINGS.
- 30. CONTRACTOR SHALL LABEL ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC 110.16 AND 110.24.
- 31. CONTRACTOR SHALL VERIFY THAT THE MAIN BONDING JUMPER AND GROUNDING ELECTRODE CONDUCTOR IS INSTALLED PROPERLY AT SERVICE ENTRANCE.
- 32. CONTRACTOR SHALL SEAL AROUND ALL CONDUIT PENETRATIONS TO PREVENT MOISTURE PENETRATION OR VERMIN INFESTATIONS.
- 33. DURING TRENCH BACK-FILLING FOR EACH UNDERGROUND ELECTRICAL, TELEPHONE, SIGNAL AND COMMUNICATIONS LINE, PROVIDE A CONTINUOUS UNDERGROUND WARNING TAPE TWELVE INCHES BELOW FINISHED GRADE

GROUNDING NOTES

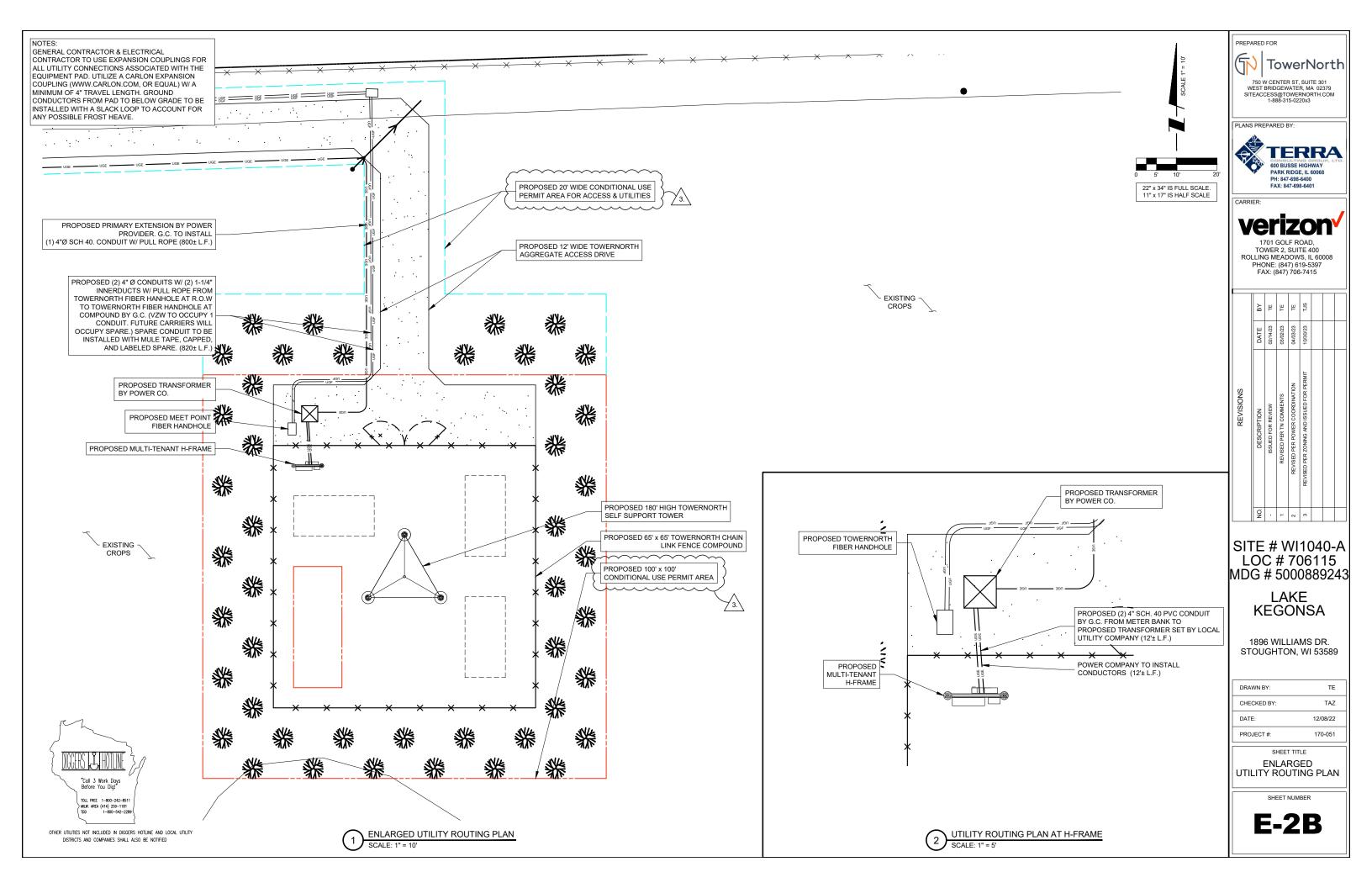
- 1. ALL GROUNDING CONNECTIONS SHALL BE MADE USING EXOTHERMIC WELDING PROCESS (CAD WELD OR EQUAL) EXCEPT FOR EQUIPMENT THAT MAY BE MECHANICALLY FASTENED. ALL LUGS SHALL BE TWO HOLE, LONG BARREL TYPE, FOR COPPER, UNLESS OTHERWISE NOTED.
- 2. ALL GROUND PLATES SHALL BE INSTALLED AT 30' BELOW GRADE PER MANUFACTURER'S SPECIFICATIONS. UNDERGROUND GROUNDING CONDUCTORS SHALL BE 30' BELOW GRADE.
- 3. ALL GROUND CONDUCTORS SHALL BE MIN. #2 AWG SOLID TINNED COPPER WIRE BARE, EQUIPMENT GROUND CONDUCTORS SHALL BE MIN. #6 GREEN INSULATED, UNLESS OTHERWISE NOTED.
- 4. GROUND PLATES FOR GROUND RING SHALL BE LOCATED 5'-0' APART.
- 5. ANY METAL OBJECT WITHIN 6 FEET OF THE TOWER OR EQUIPMENT GROUND RING SHALL BE BONDED DIRECTLY TO THE RING.
- 6. THE MINIMUM BENDING RADIUS FOR ALL GROUNDING CONDUCTORS #6 AWG OR LARGER SHALL BE 24'.
- 7. ALL ABOVE GRADE GROUND CONDUCTORS SHALL BE ROUTED DOWNWARD TOWARD EARTH AND HORIZONTAL ONLY WHERE NECESSARY.
- 8. ALL CONDUCTORS SHALL BE ROUTED SUCH THAT THERE ARE NO INCLUSIVE ANGLES OF LESS THAN 90 DEGREES.
- 9. THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A RECOMMENDED TEST RESULT OF 5 OHMS OR LESS.
- 10. ALL GROUNDING SHALL COMPLY WITH THE N.E.C. AND NFPA 780, LIGHTING PROTECTION CODE .
- 11. ALL GROUNDING COMPONENTS SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR.
- 12. ANY METAL CONDUIT MOUNTED ON THE TOWER SHALL BE BONDED TO THE TOWER AT EACH END.
- 13. ALL EXPOSED GROUNDING SHALL BE IN NON-METALLIC FLEX CONDUIT AND SECURED AS NECESSARY.
- 14. WHEN BONDING TO EQUIPMENT, REMOVE PAINT TO BARE STEEL AND PROTECT WITH A COATING OF NO-OX.
- 15. APPROVED ANTIOXIDANT COATINGS SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- 16. BOND ICE BRIDGE SECTIONS TOGETHER EXOTHERMICALLY OR WITH 2 HOLE LUGS. BOND ICE BRIDGE TO SUPPORT POSTS.

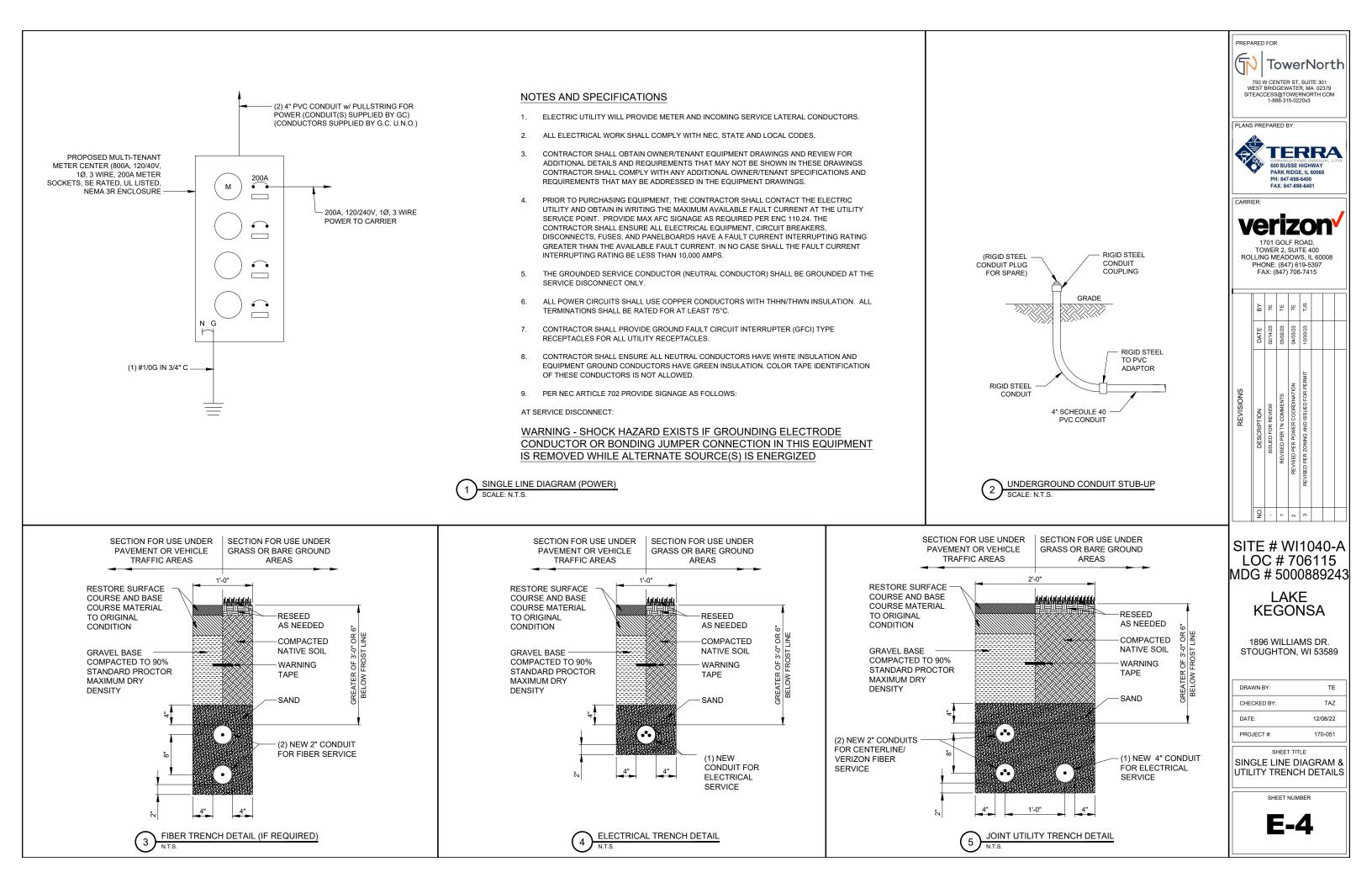
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TYPICAL KEYED GROUNDING NOTES (-)

#2 AWG TNND SOLID BARE COPPER CONDUCTOR 42" BELOW GRADE (1)(TYPICAL) MINIMUM 24" BENDING RADIUS

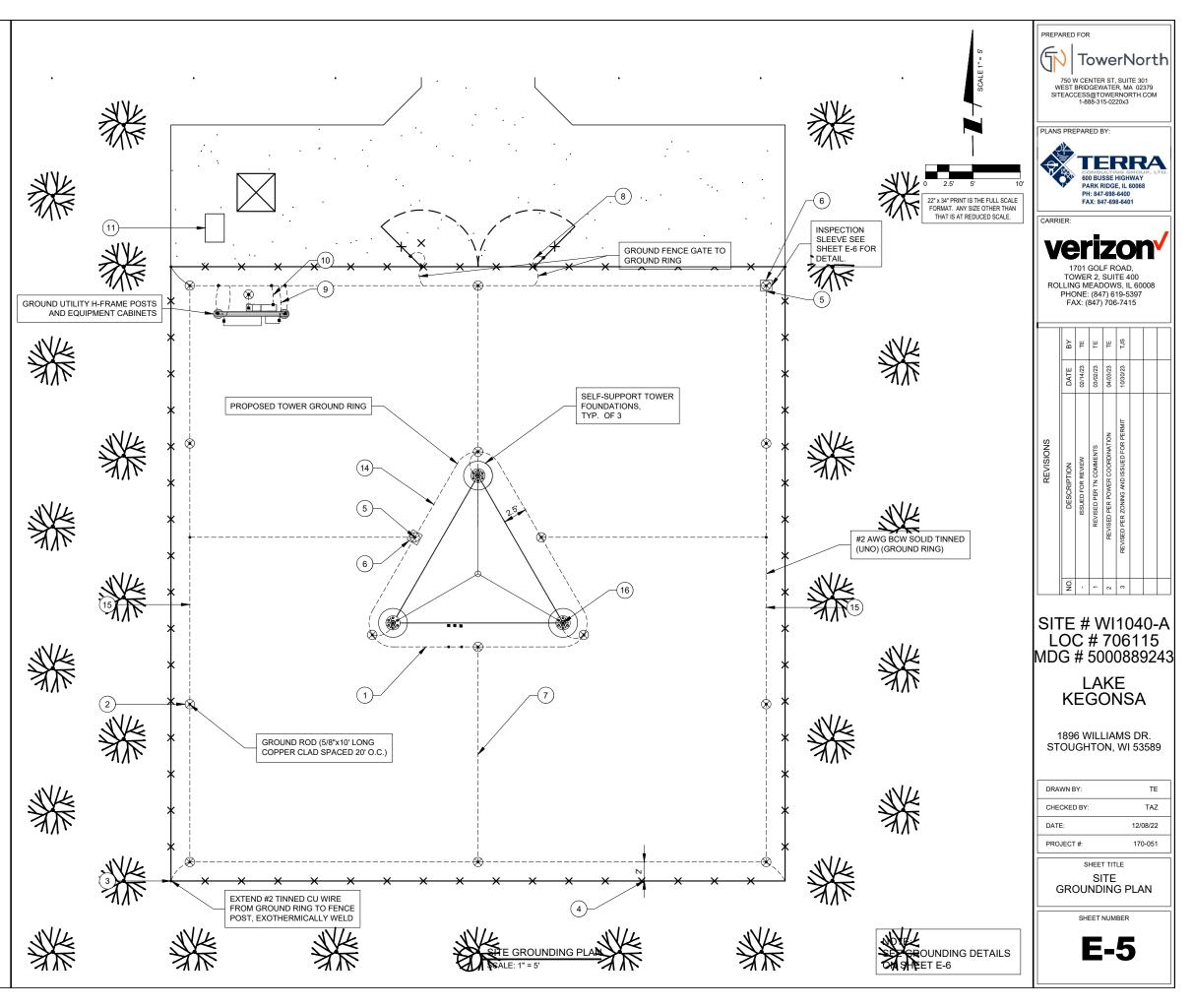
- 2 5/8" x 10' COPPER CLAD GROUND ROD
- (3) GROUND ALL CORNER POSTS WITH MECHANICAL PIPE CONNECTORS
- PERIPHERAL GROUND RING SHOULD BE INSTALLED 1'-2' INSIDE THE (4) FENCE LINE, THE TOWER GROUND RING SHOULD BE INSTALLED A MINIMUM TWO FEET OFF OF ANY STRUCTURE
- 5/8"Ø 10' LONG COPPERCLAD GROUND ROD WITH INSPECTION WELL, 5 TOP OF GROUND ROD MAX 24" BURY, SEE DETAIL SHEET E-5.
- (6) INSPECTION WELL (TYP.)
- $\stackrel{-}{\fbox{7}}$ Bond tower to ground system with cadweld type VS, 4 locations
- (8) GATE JUMPERS SEE DETAIL ON SHEET E-6

LUGS WITH NO-OK OR COPPER SHIELD

- PROVIDE AN EXTERNAL #2 TNNCOATED GROUND LEAD FROM GROUND RING TO ALL METAL CABINETS ON UTILITY BACKBOARD (TELCO,ELEXTRIC,BREAKER (9) PANELS, METER RACKS, JUNCTION BOXES, ETC.) SLEEVED IN CONDUIT FROM JUST BELOW GRADE TO SAND CABINETS USING BURNDY TYPE 2 LONG BARREL
- (10) ELECTRIC METER AND ELECTRIC SERVICE GROUNDING COORDINATE ALTERNATE WITH PM
- (11) 24" x 30" x 24" FIBER OPTIC HAND HOLE
- (12) MAINTAIN TWO FOOT DISTANCE OFF OF STRUCTURES.
- (13) GROUND CHAIN LINK FENCE (TYPICAL) EXOTHERMIC CONNECTION (TYPE VS) GROUND FENCE POSTS WITHIN 6 FEET OF PLATFORM AND 25 FEET OF TOWER.
- (14) PROPOSED TOWER GROUND RING
- (15) PROPOSED COMPOUND GROUND RING
- EACH TOWER FOUNDATION TO HAVE AT LEAST ONE ANCHOR BOLT (16) BONDED TO TOWER GROUND RING WITH #2 TINNED SOLID COPPER CONDUCTOR

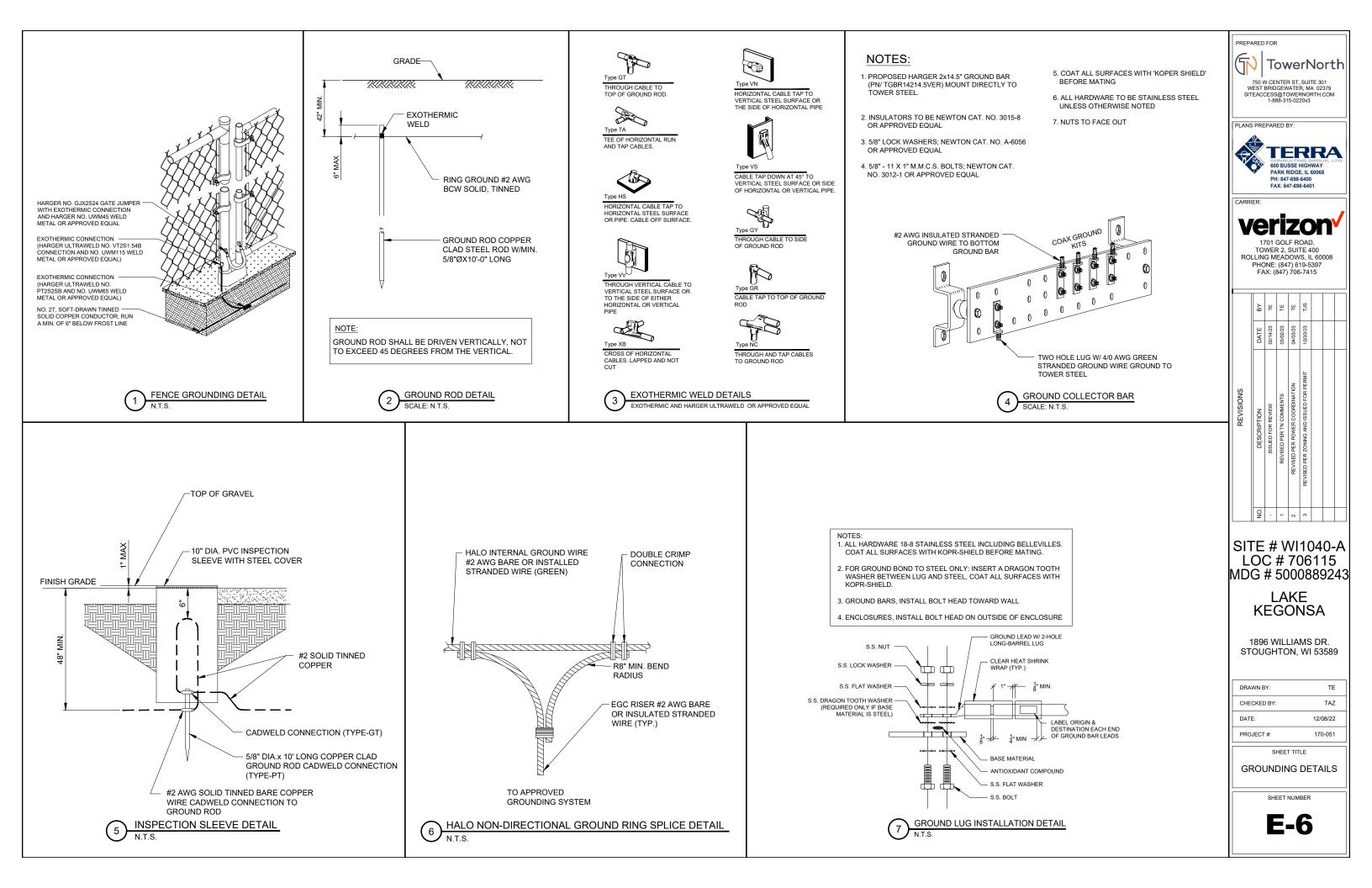
NOTES:

- CONTRACTOR TO INSTALL GROUND RODS AS NEEDED TO PROVIDE RECOMMENDED RESISTIVITY. REFER TO ELECTRICAL AND GROUNDING NOTES ON SHEET E-1.
- CONTRACTOR TO INSTALL HANDHOLES AS NECESSARY PER LOCAL UTILITY 2 REQUIREMENTS.
- 3. ALL GROUNDING CONDUCTORS ARE #2 AWG SOLID TINNED COPPER WIRE BARE, UNLESS NOTED OTHERWISE.



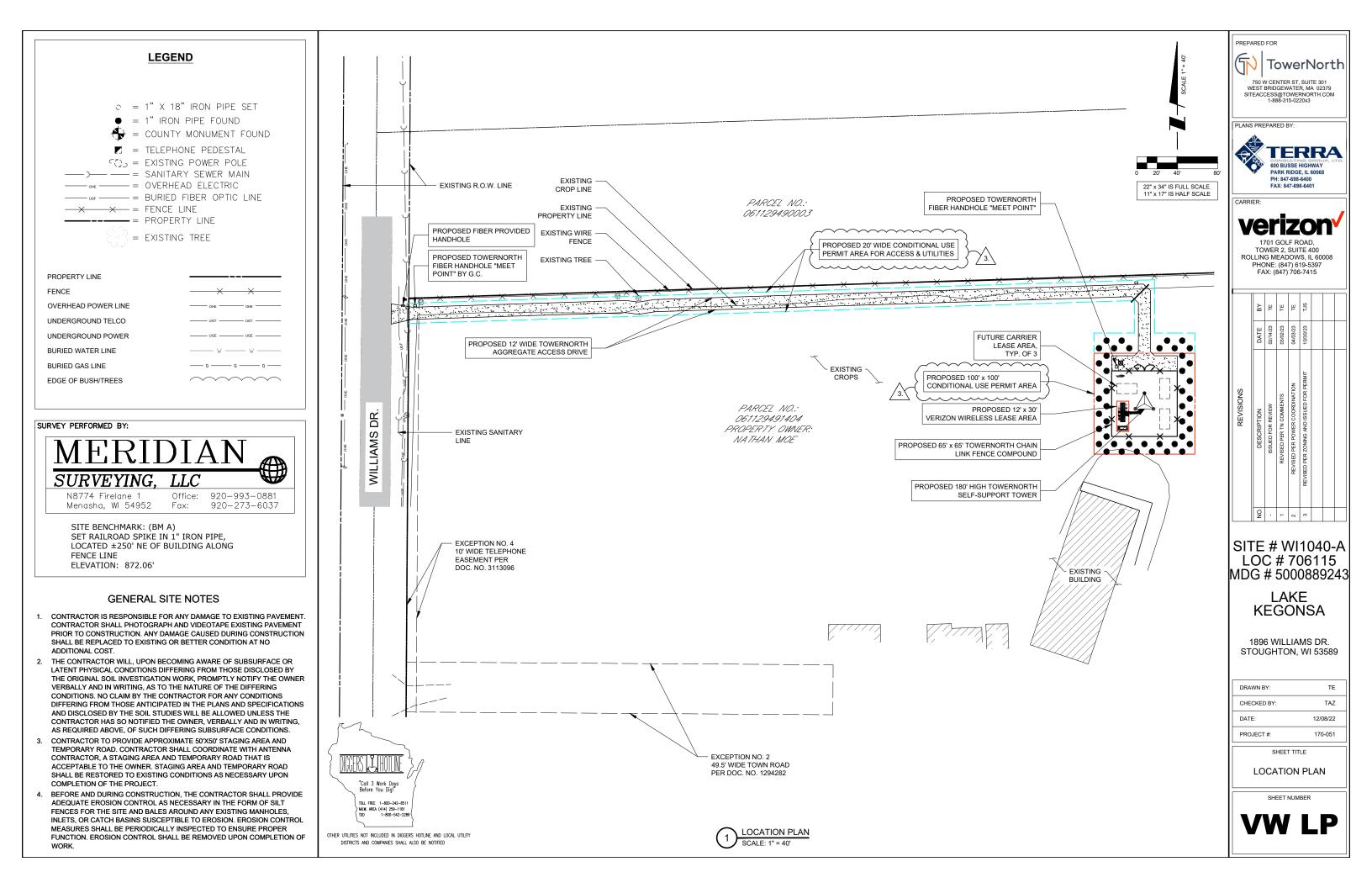
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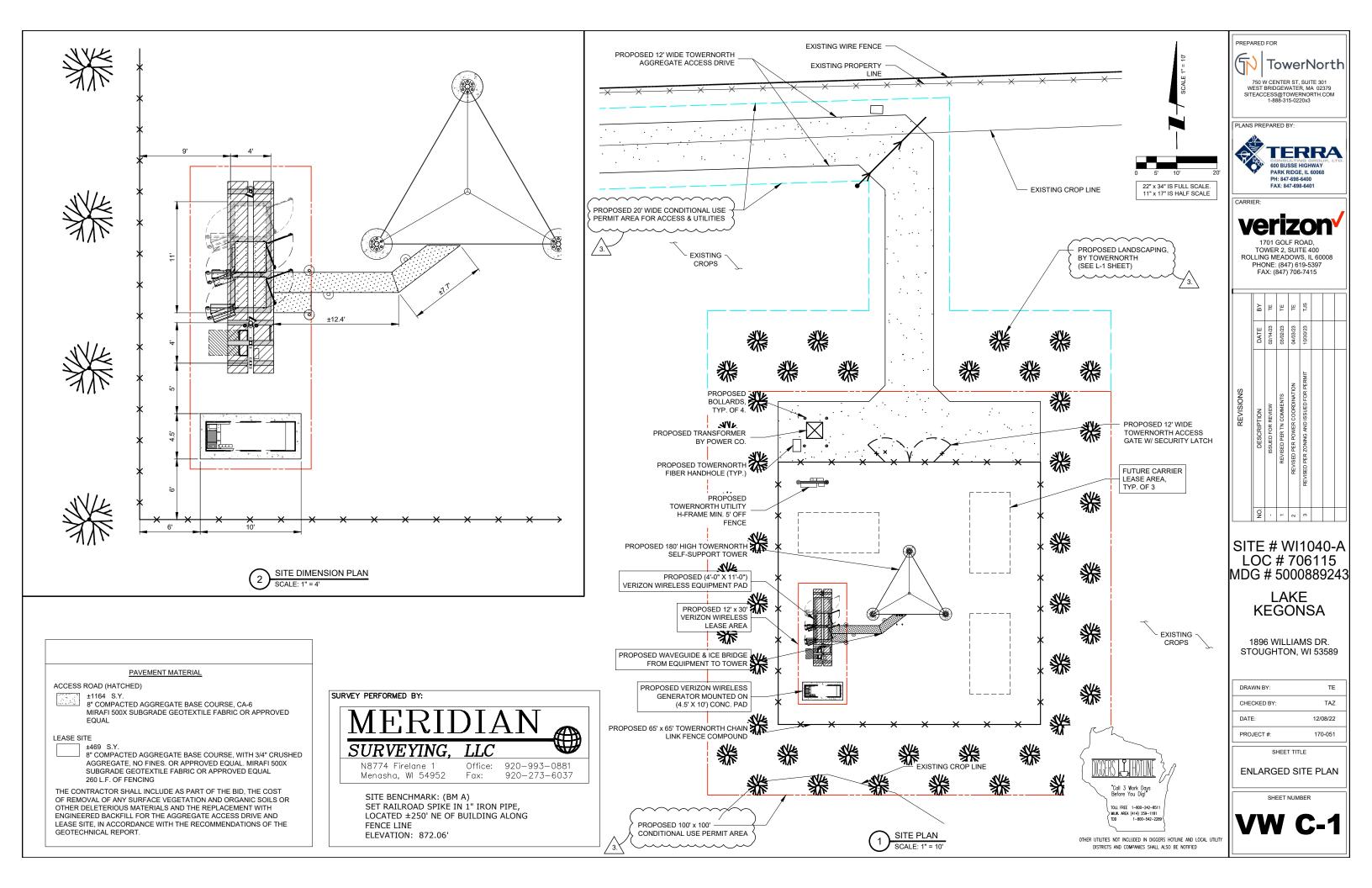
- GROUND BAR OR ARRESTOR BAR
- 5/8"Ø x 10'-0" GROUND ROD
- \otimes
- \otimes GROUND SYSTEM TEST WELL
- CADWELD OR APPROVED CONNECTION .
- 2 SPARE GROUND LEAD MECHANICAL CONNECTION - EXISTING GROUNDING — — — NEW GROUNDING

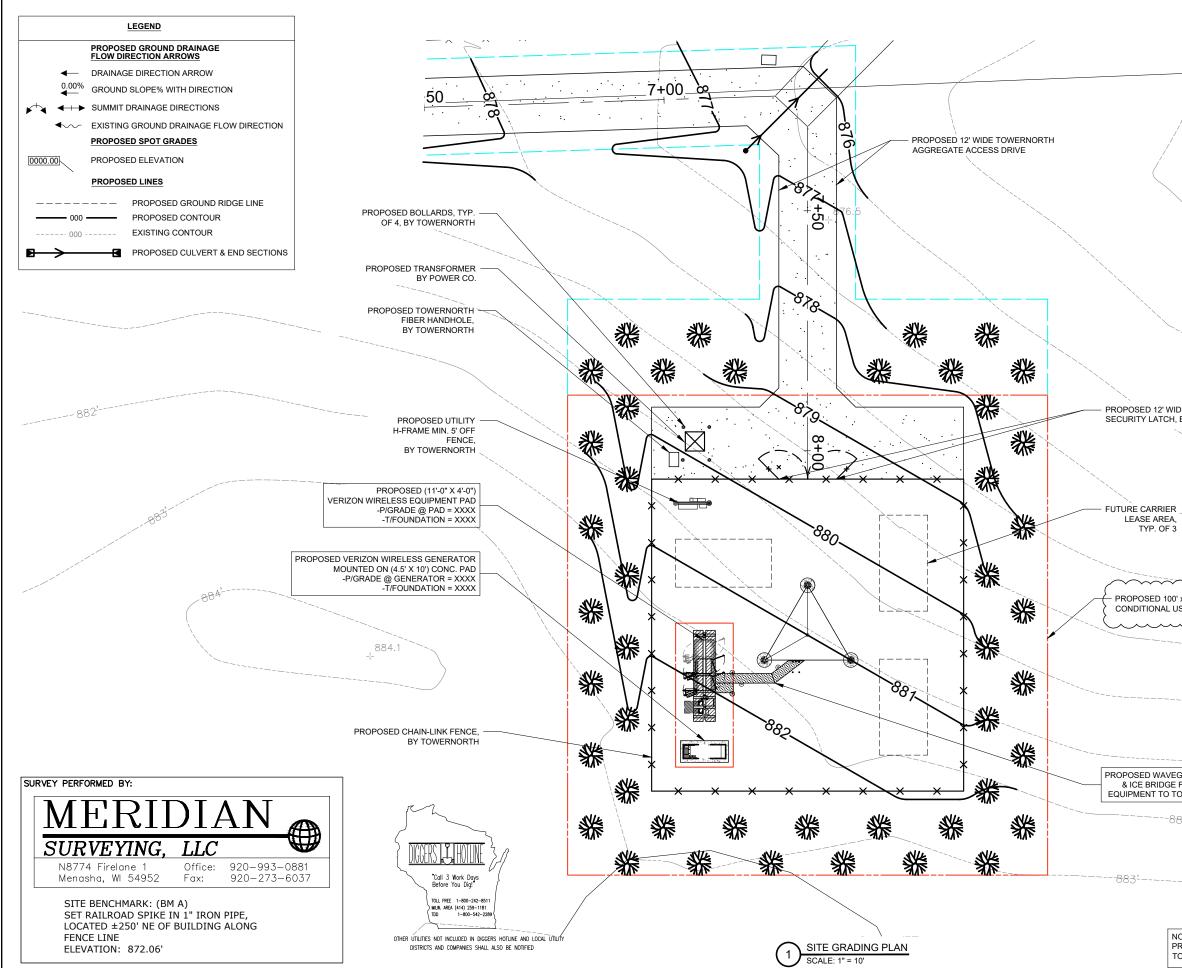




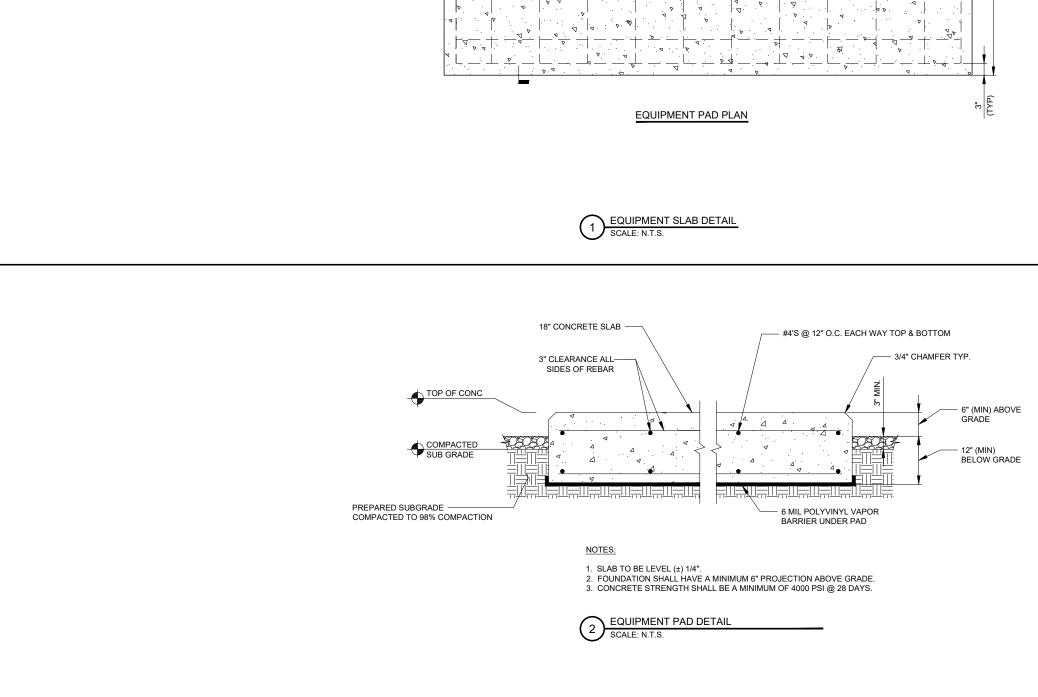
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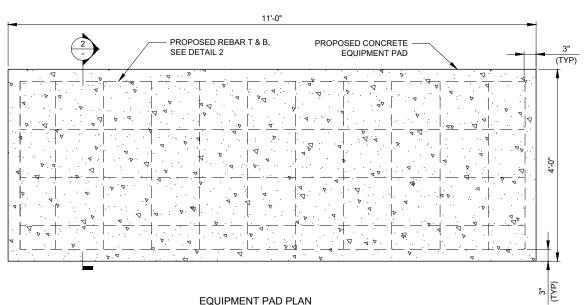






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NOTE: PROPOSED COMPOUND GRADING TO BE COMPLETED PRIOR TO VERIZON WIRELESS INSTALLATION. SEE SHEET C-2.

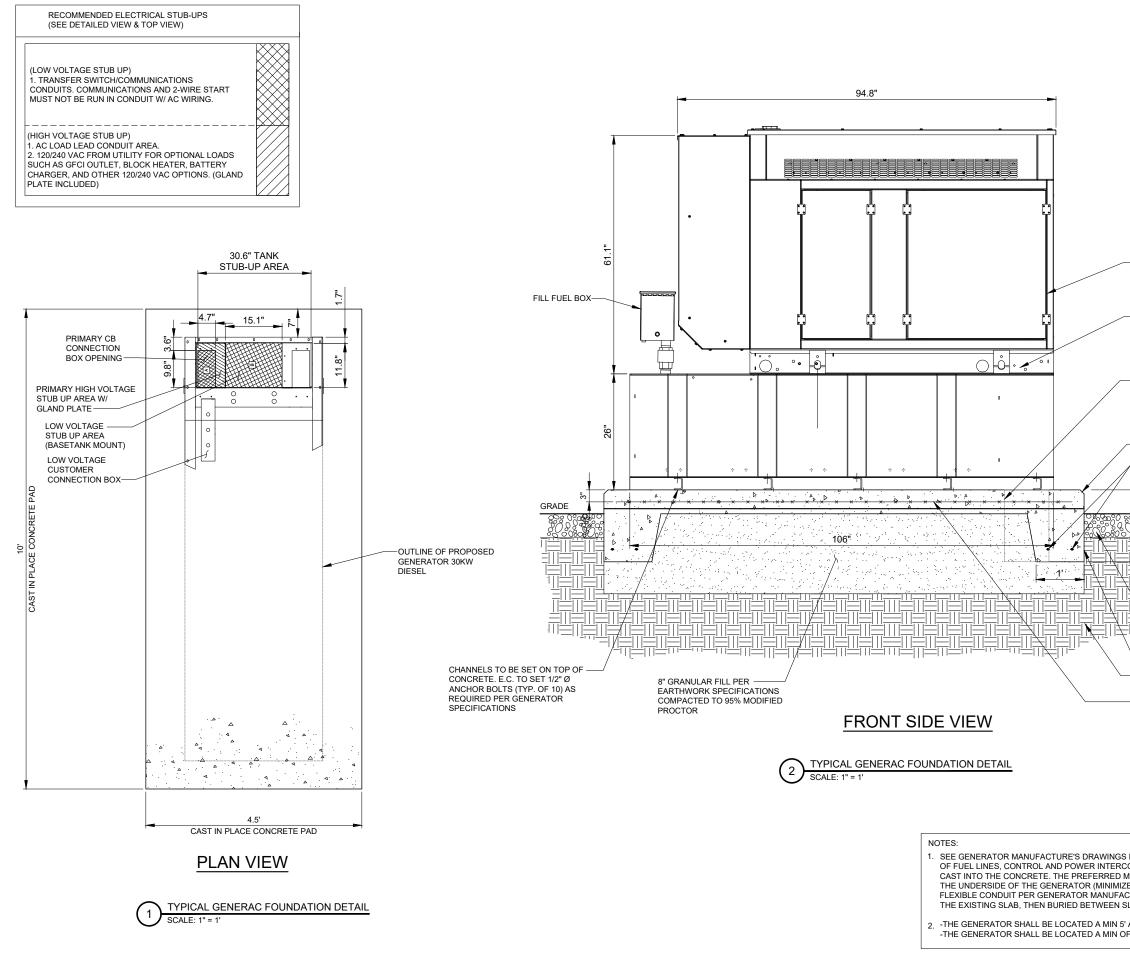




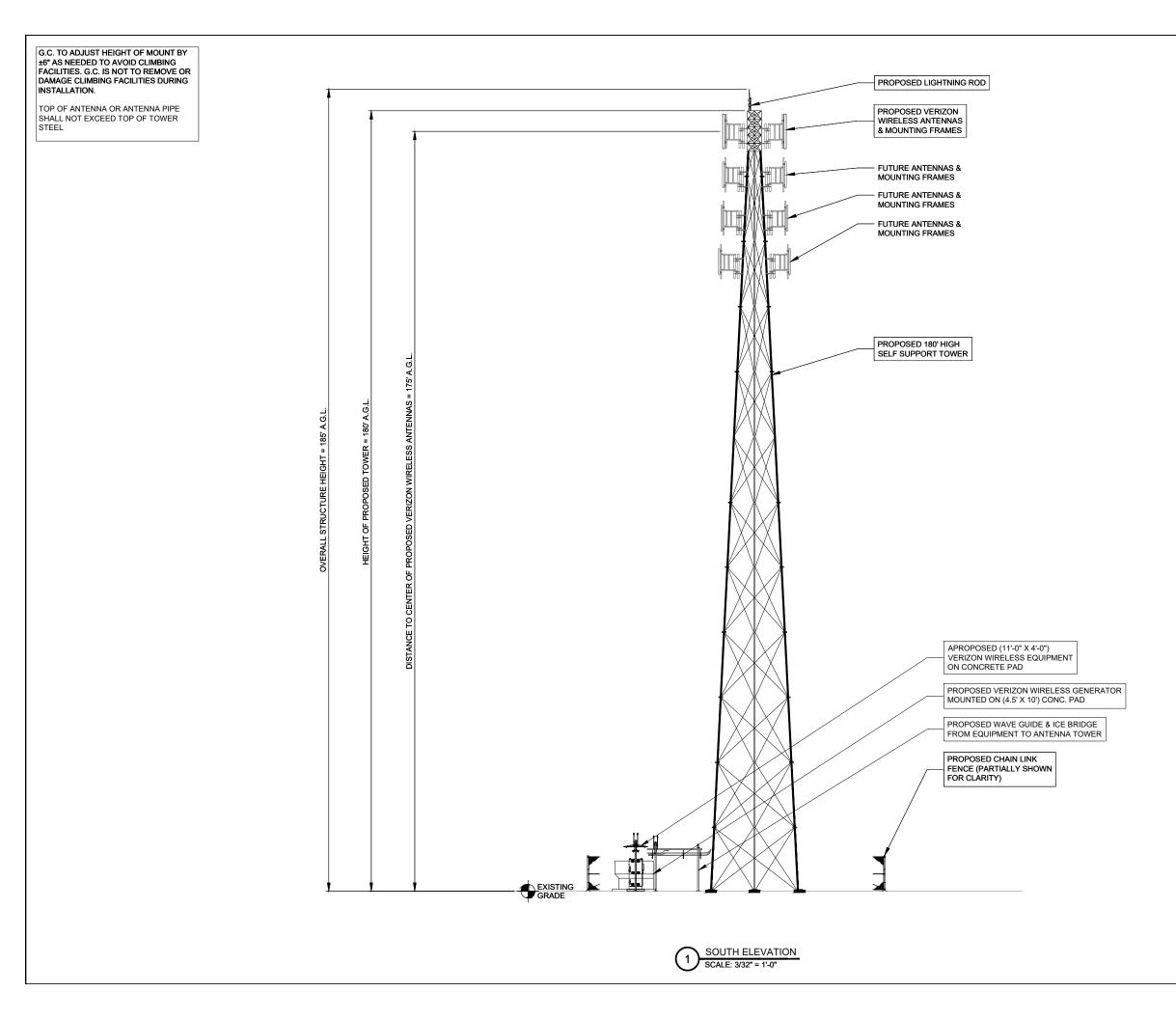
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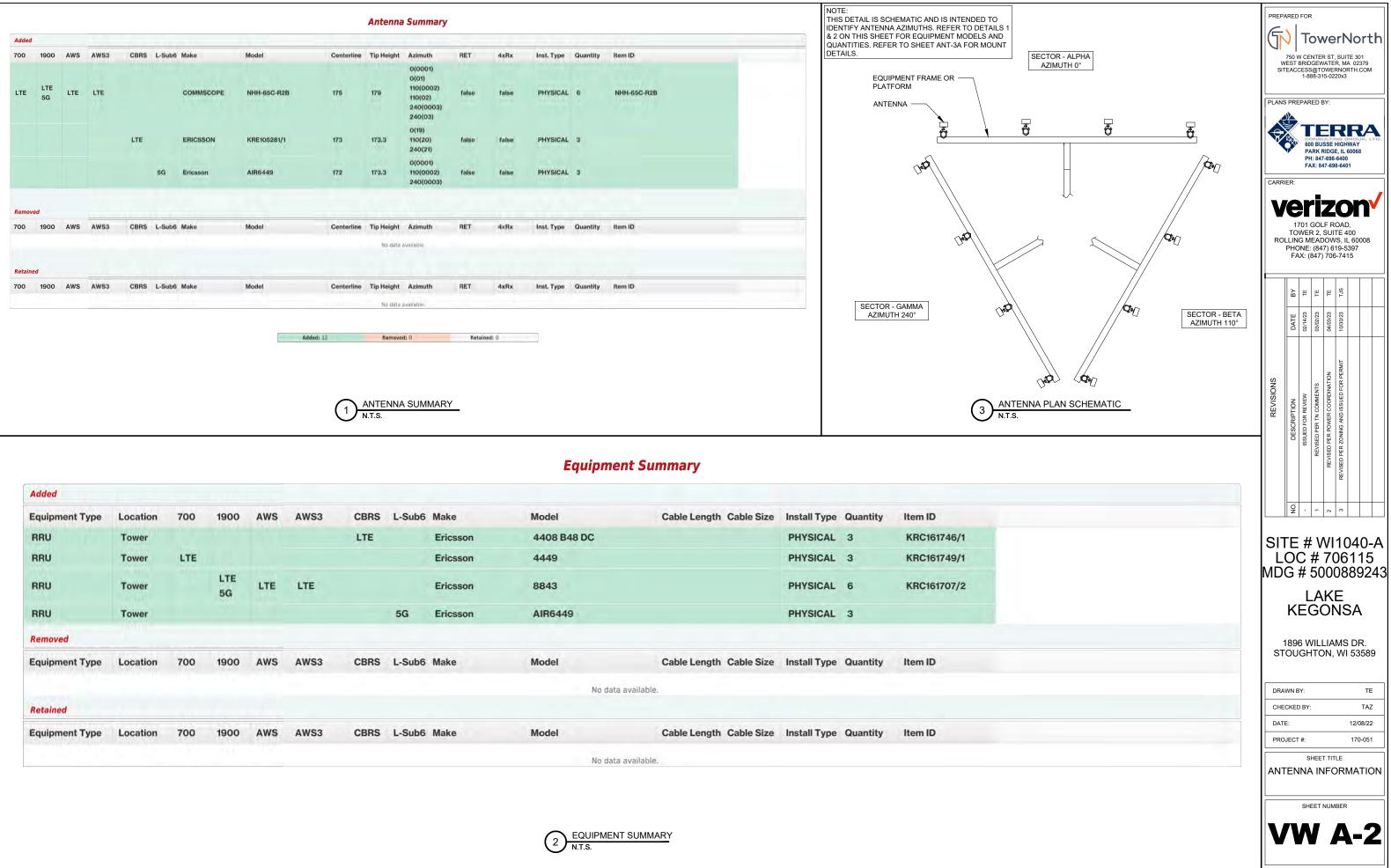


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 OUTLINE OF STUB-UP AREA FOR (1) 2-1/2" CONDUIT FOR MAIN POWER FEED, (1) 1" CONDUIT FOR BATTERY CHARGER/ HEATER, (1) 3/4" CONDUIT FOR CONTROL LEADS, & (1) 3/4" CONDUIT FOR ALARM. 1" CHAMFER (TYP.) (2) #5 REBAR CONTINUES 3" COVER ALL SIDES (TYP.) (1) 3/4" <l< td=""><td>REVISIONS</td><td>DESCRIPTION</td><td>ISSUED FOR REVIEW</td><td>REVISED PER TN COMMENTS</td><td>REVISED PER POWER COORDINATION</td><td>REVISED PER ZONING AND ISSUED FOR PERMIT</td><td></td><td></td><td></td></l<>	REVISIONS	DESCRIPTION	ISSUED FOR REVIEW	REVISED PER TN COMMENTS	REVISED PER POWER COORDINATION	REVISED PER ZONING AND ISSUED FOR PERMIT			
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AWAY FROM A COMBUSTIBLE WALL. 5 3' AWAY FROM A NON-COMBUSTIBLE WALL.	V					C	\ y ■	4	┣



PREPARED FOR TowerNorth 750 W CENTER ST, SUITE 301 WEST BRIDGEWATER, MA 02379 SITEACCESS@TOWERNORTH.COM 1-888-315-0220x3 22" x 34" PRINT IS THE FULL SCALE FORMAT. ANY SIZE OTHER THAN THAT IS AT REDUCED SCALE. PLANS PREPARED BY: TERRA O.M 600 BUSSE HIGHWAY PARK RIDGE, IL 60068 PH: 847-698-6400 FAX: 847-698-6401 CARRIER verizo 1701 GOLF ROAD, TOWER 2, SUITE 400 ROLLING MEADOWS, IL 60008 PHONE: (847) 619-5397 FAX: (847) 706-7415 ž DATE 02/14/23 REVISIONS DESCRIPTION SUED FOR REVIEW Ö' - -SITE # WI1040-A LOC # 706115 MDG # 5000889243 LAKE **KEGONSA** 1896 WILLIAMS DR. STOUGHTON, WI 53589 DRAWN BY: TE TAZ CHECKED BY DATE: 12/08/22 PROJECT #: 170-051 SHEET TITLE SITE ELEVATION & ANTENNA LAYOUT SHEET NUMBER **VW A-1**

SCALE: 3/32"=1'-0"

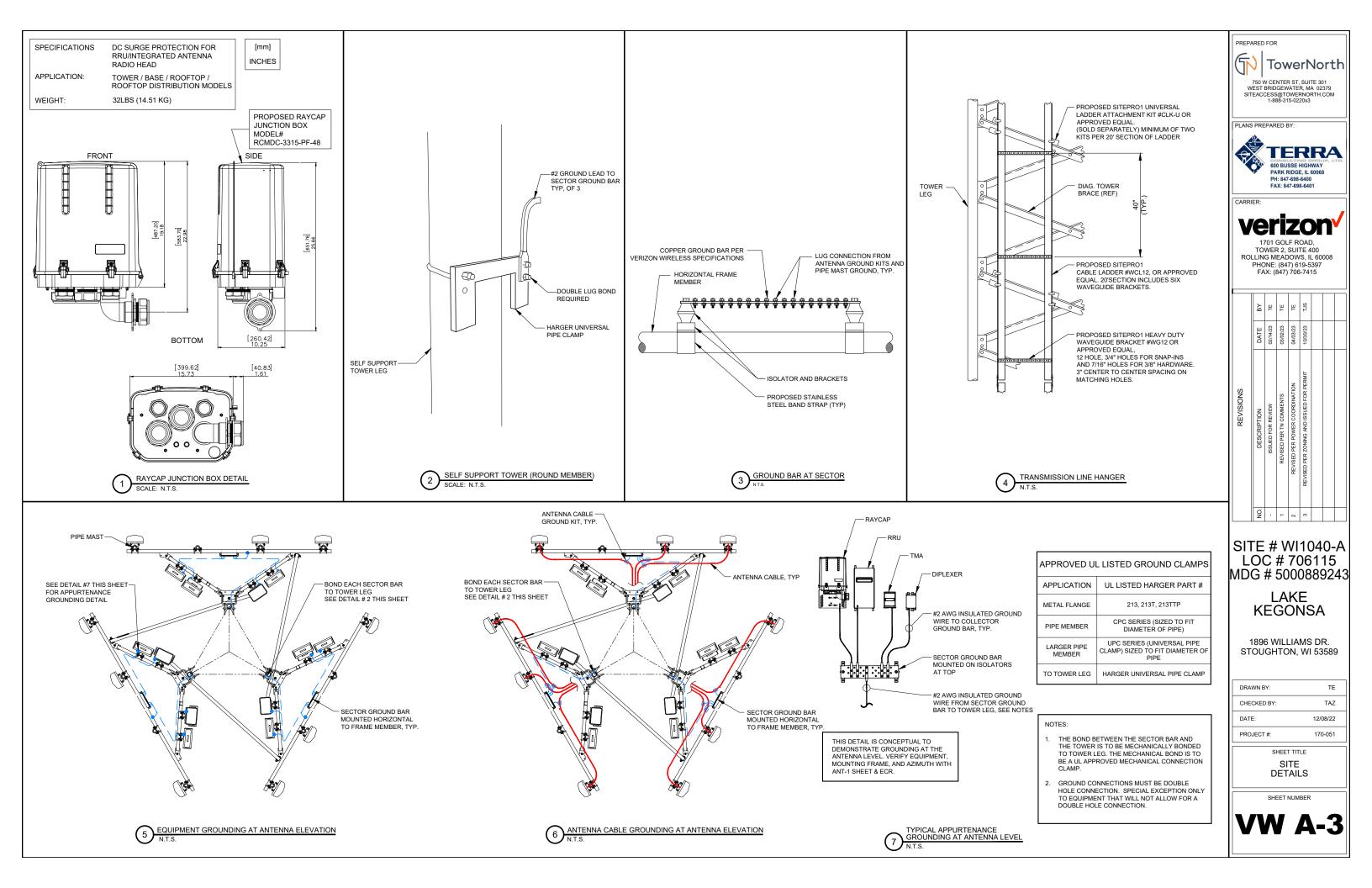


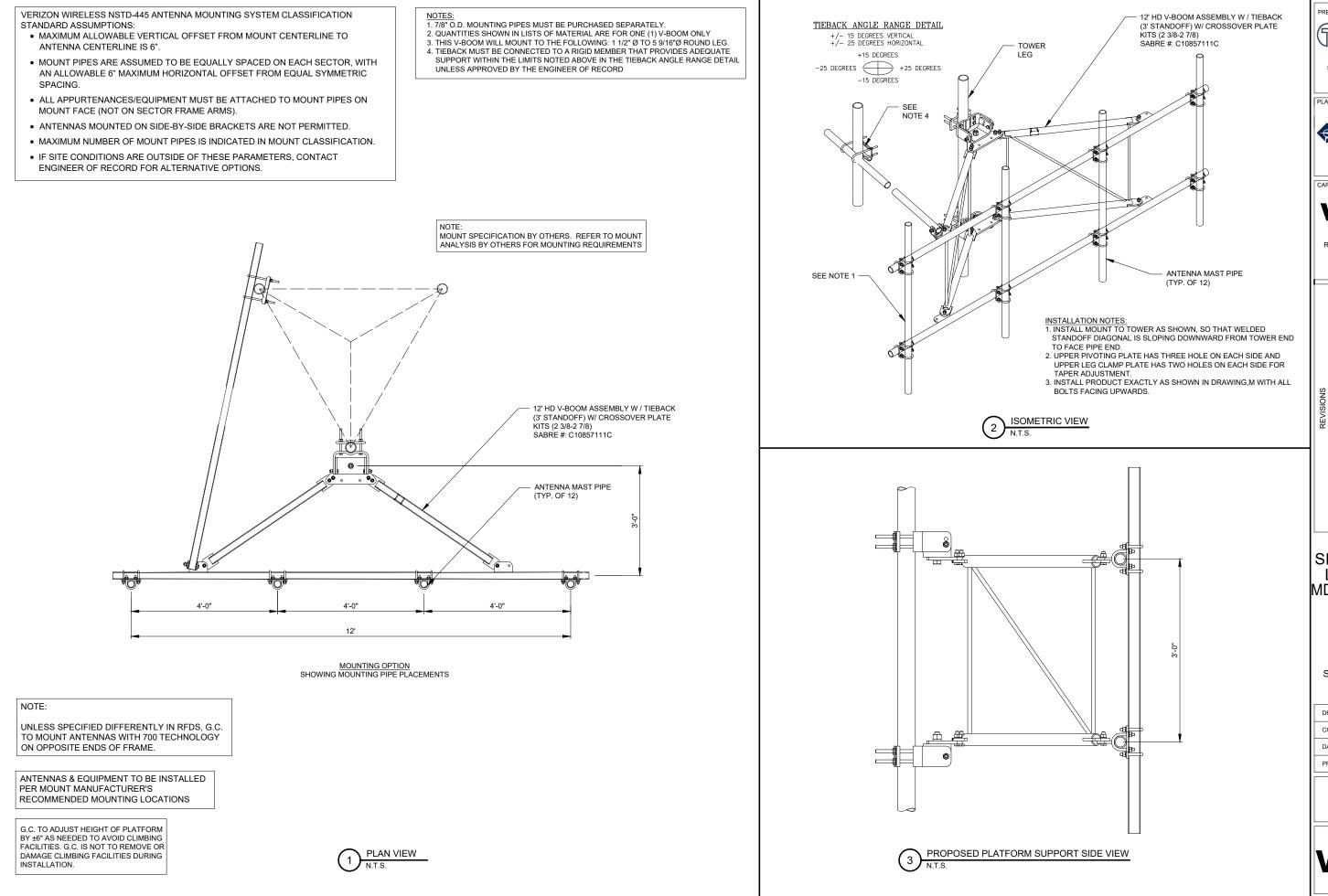
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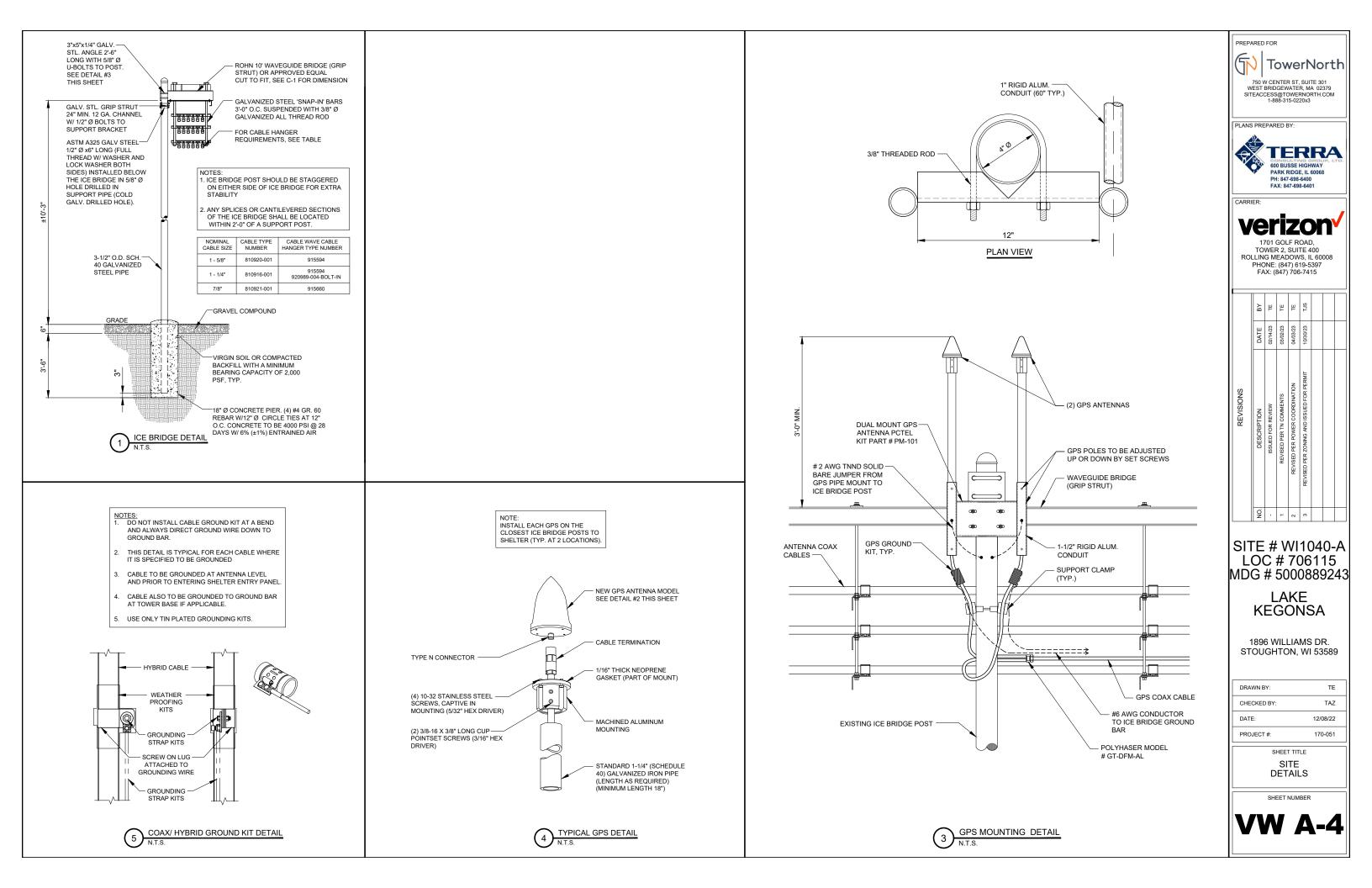
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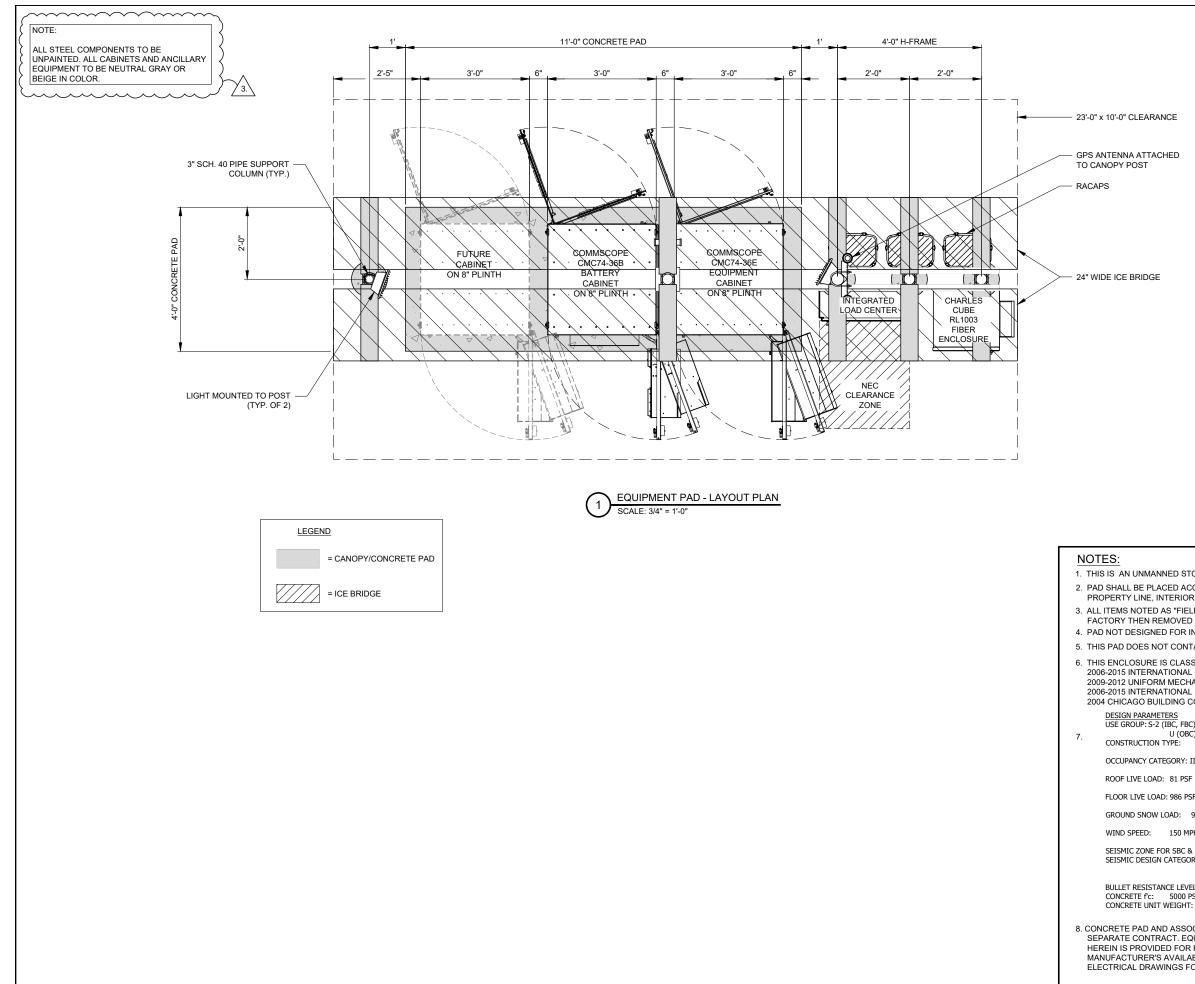
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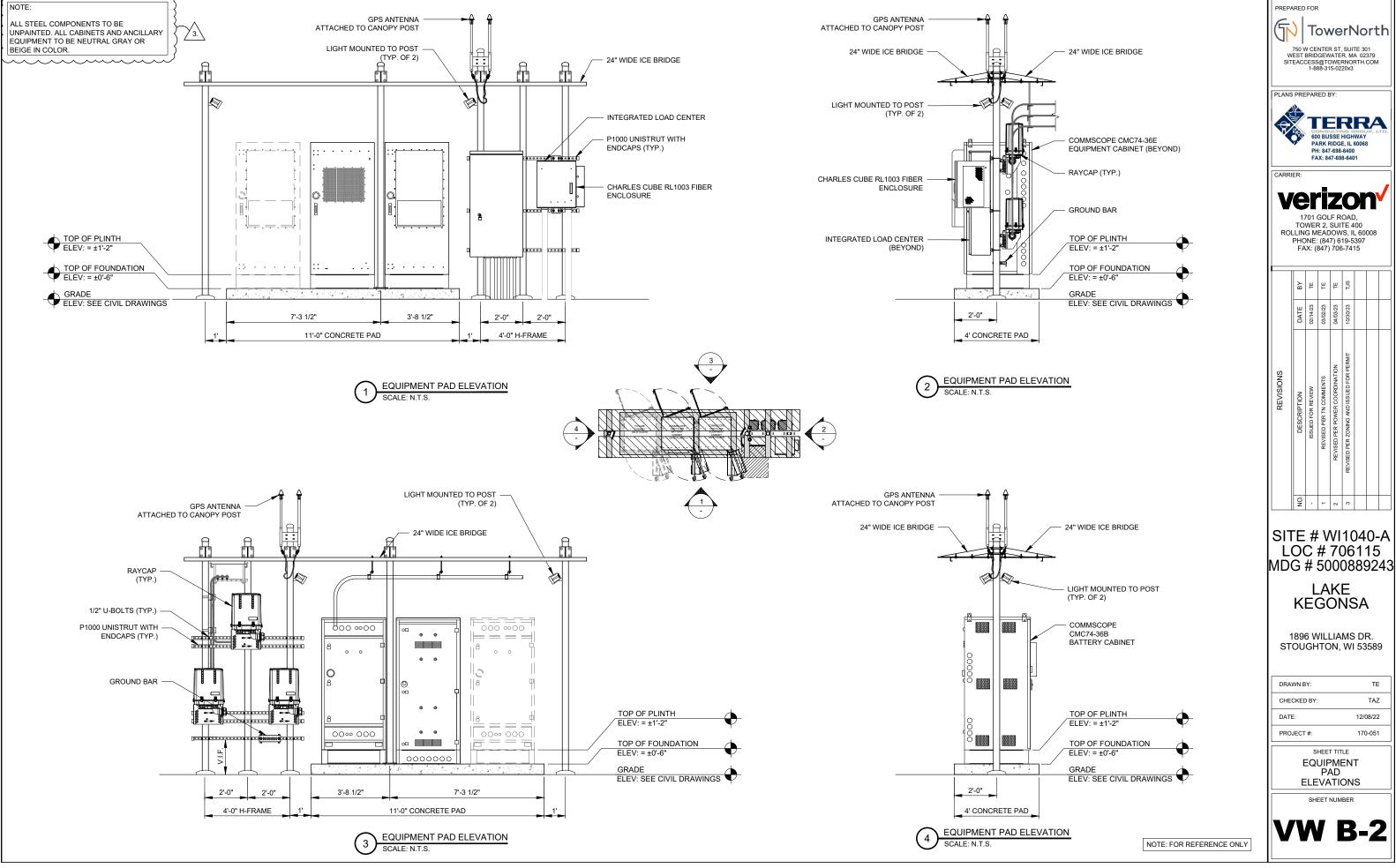


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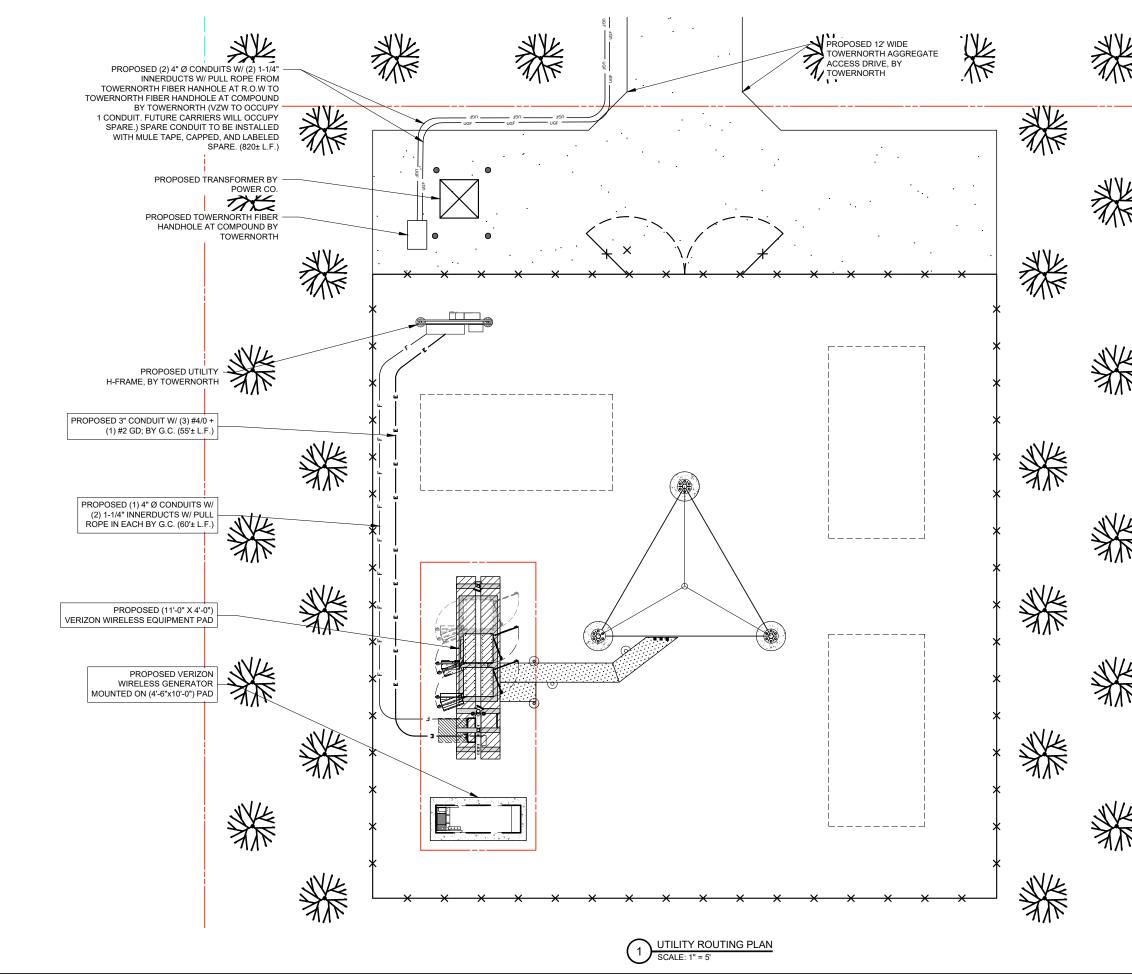


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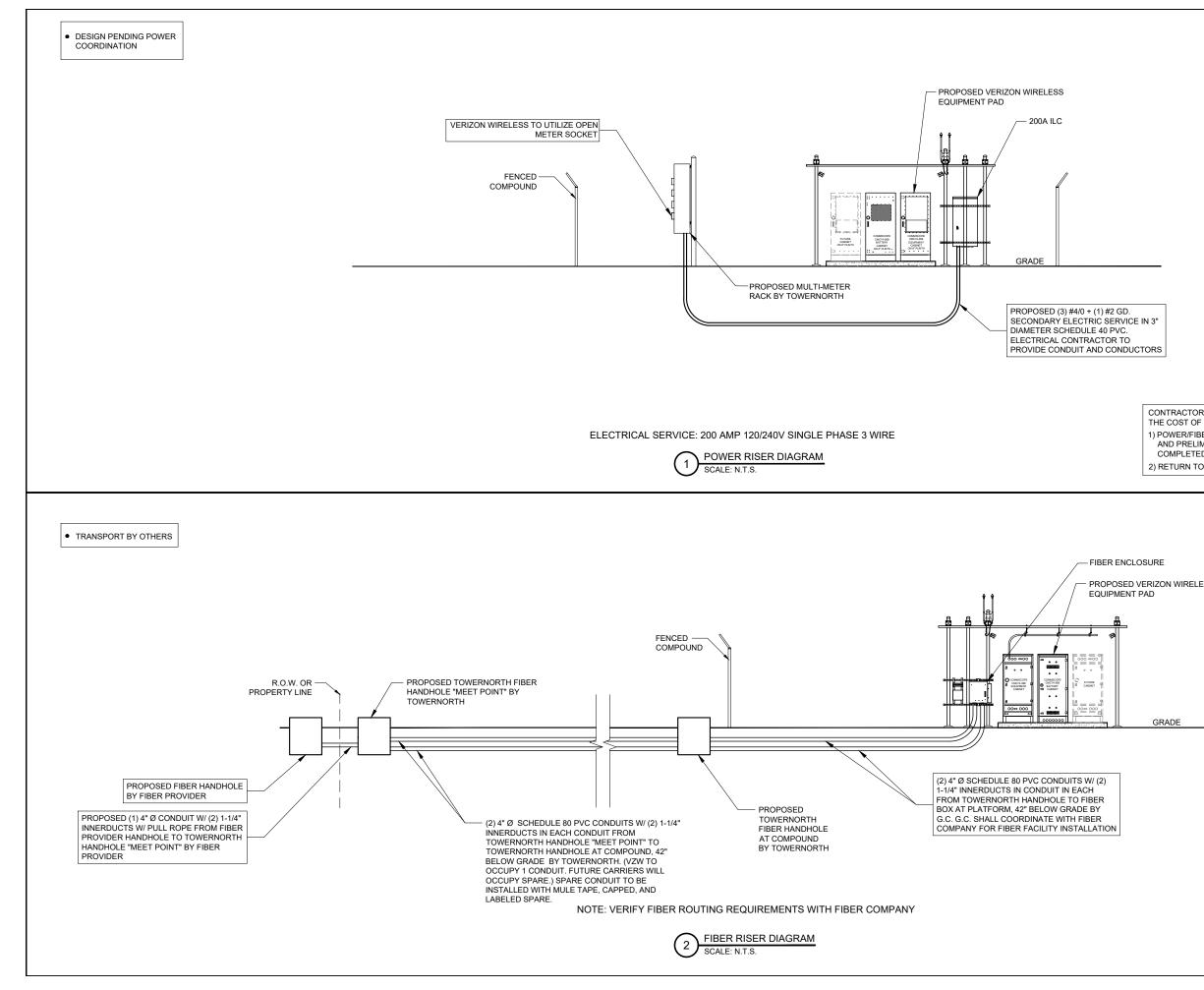
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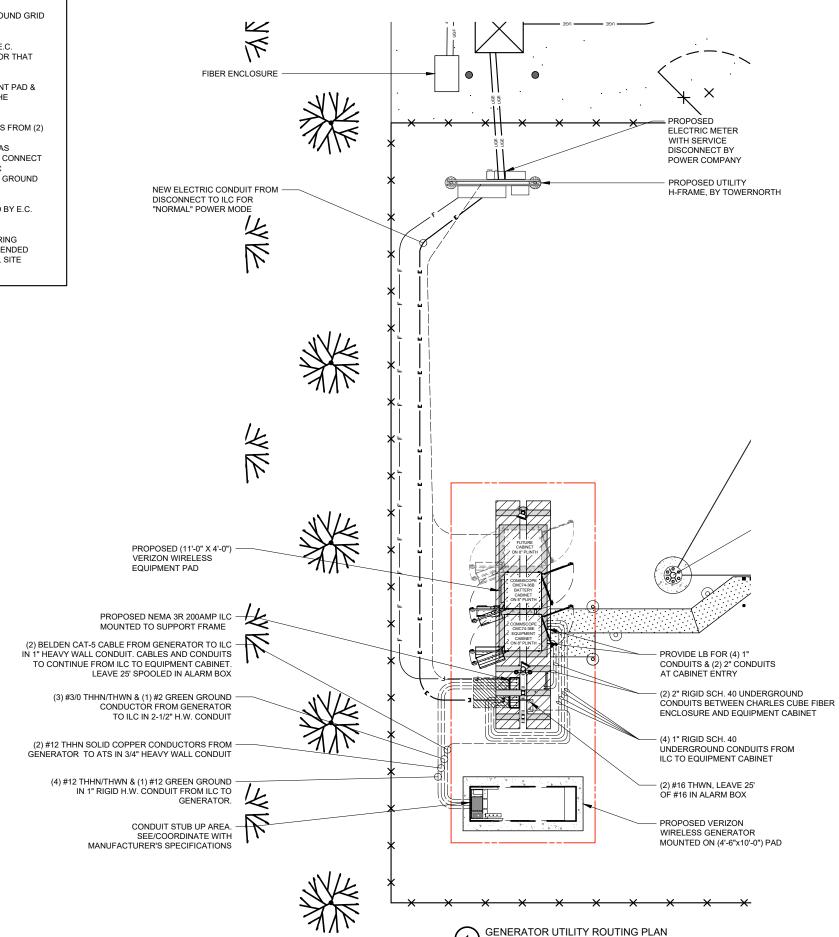
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ι v	NOTES: GENERAL CONTRACTOR & ELECTRICAL CONTRACTOR TO USE EXPANSION COUPLINGS FOR ALL UTILITY CONNECTIONS ASSOCIATED WITH THE EQUIPMENT PAD. UTILIZE A CARLON EXPANSION COUPLING (WWW.CARLON.COM, OR EQUAL) W/ A MINIMUM OF 4" TRAVEL LENGTH. GROUND CONDUCTORS FROM PAD TO BELOW GRADE TO BE INSTALLED WITH A SLACK LOOP TO ACCOUNT FOR ANY POSSIBLE FROST HEAVE.			Y F	EET		ING			



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R SHALL BUILD INTO THE PRICE OF THE BID TWO (2) MOBILIZATIONS: ER PERMIT PULLED PRIOR TO BUILDING PERMIT MINARY WORK (SMART JACK ON A STICK, ETC) D PRIOR TO GENERAL CONSTRUCTION O COMPLETE GENERAL ELECTRICAL CONSTRUCTION	REVISIONS	DESCRIPTION	ISSUED FOR REVIEW	REVISED PER TN COMMENTS	REVISED PER POWER COORDINATION	REVISED PER ZONING AND ISSUED FOR PERMIT			
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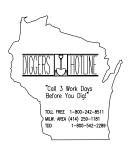
- 1) SEE DETAILS ON EXISTING GROUND GRID AND GENERATOR GROUND GRID FOR REQUIRED GROUNDING SYSTEM.
- 2) NEW AUTOMATIC TRANSFER SWITCH, INSTALLED AND WIRED BY E.C. CONNECT EXTERNAL GROUND LUG AND GROUNDING CONDUCTOR THAT WAS REMOVED FROM MANUAL TRANSFER SWITCH.
- 3) E.C. MUST LOCATE GROUND GRID INSTALLED FOR NEW EQUIPMENT PAD & PROVIDE THE ATTACHMENT OF THE GENERATOR GROUND TO THE EQUIPMENT GRID FOR SINGLE POINT GROUNDING.
- 4) E.C. TO EXTEND #2 TINNED SOLID COPPER GROUND CONDUCTORS FROM (2) LOCATIONS ON GENERATOR FRAME (SEE MANUFACTURERS RECOMMENDATIONS) PROVIDE GROUND LUGS ON GENERATOR AS REQUIRED. EXTEND #1/0 STRANDED GROUND CONDUCTOR AND CONNECT TO COPPER CLAD GROUND RODS VIA HEAVY DUTY EXOTHERMIC TERMINATIONS AND THEN EXTENDED AND ATTACH TO BUILDING GROUND GRID VIA EXOTHERMIC TERMINATIONS.
- 5) NEW GENERATOR FURNISHED BY LESSEE. INSTALLED AND WIRED BY E.C. DELIVERED AND SET BY CONTRACTOR.
- 6) E.C. MUST MONITOR DC POWER WHEN ON BATTERY BACK-UP DURING PORTIONS OF CONSTRUCTION. IF LEVEL FALLS BELOW RECOMMENDED LEVEL 2256 DC, E.C. MUST TURN ON THE MAIN POWER. THE CELL SITE CANNOT GO OFF LINE AT ANYTIME.



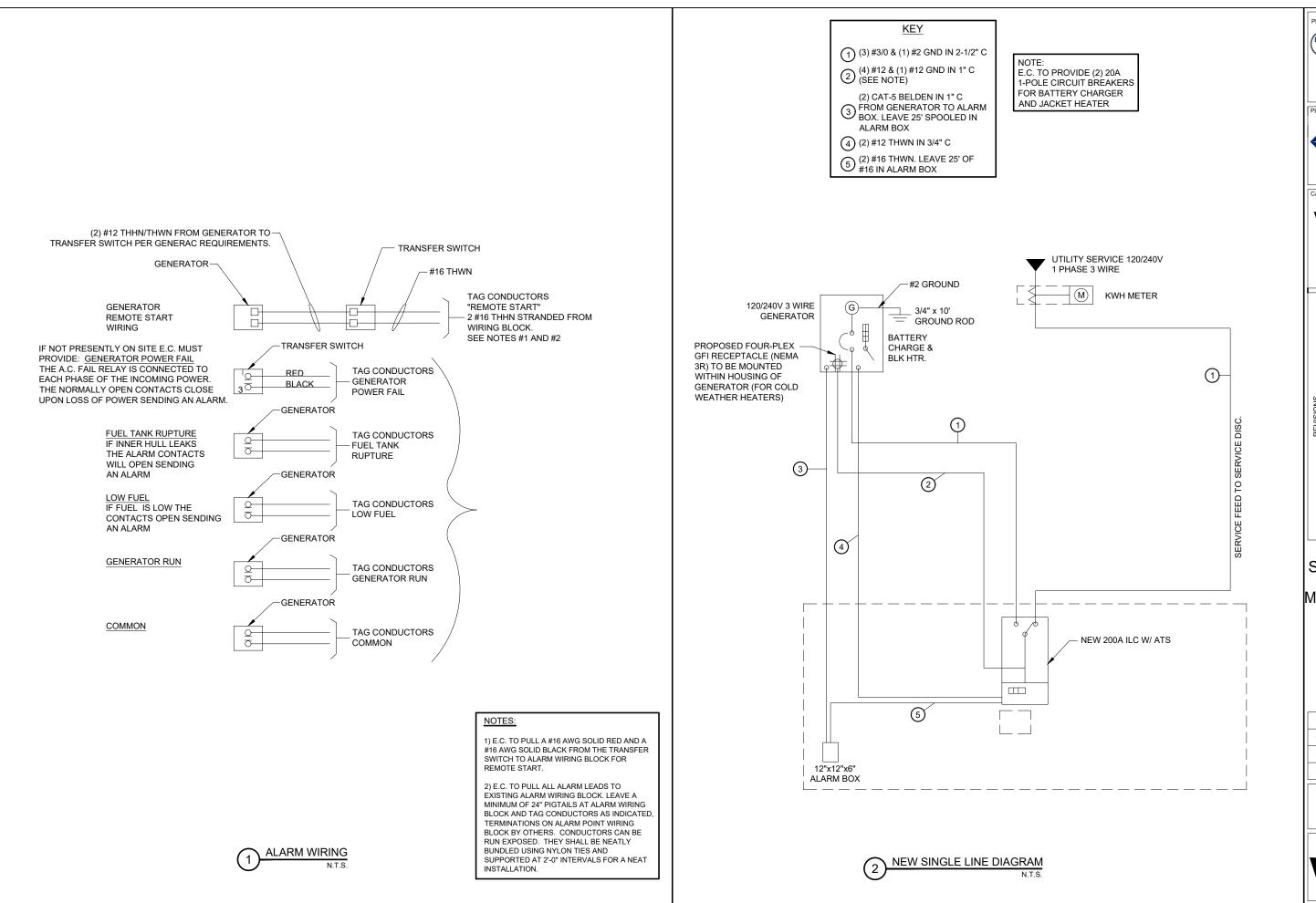
(1) SCALE: 1" = 4'

NOTE: CONTRACTOR TO VERIFY ROUTES WITH LOCAL UTILITY COMPANY PRIOR TO INSTALLATION.

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OTHER UTILITIES NOT INCLUDED IN DIGGERS HOTLINE AND LOCAL UTILITY DISTRICTS AND COMPANIES SHALL ALSO BE NOTIFIED



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CONSULTING GROUP, LTD.													
600 BUSSE HIGHWAY PARK RIDGE, IL 60068 PH: 847-698-6400 FAX: 847-698-6401													
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verizon													
1701 GOLF ROAD, TOWER 2, SUITE 400													
TOWER 2, SUITE 400 ROLLING MEADOWS, IL 60008 PHONE: (847) 619-5397 FAX: (847) 706-7415													
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ELECTRICAL INSTALLATION NOTES

- 1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS THE NATIONAL ELECTRICAL CODE (N.E.C.), AND ALL APPLICABLE LOCAL CODES.
- 2. WIRING RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE N.E.C.
- 3. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE N.E.C.
- 4. CABLES SHALL NOT BE ROUTED THROUGH LADDER CABLE TRAY RUNGS.
- 5. EACH END OF EVERY POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH N.E.C. & OSHA
- ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH PLASTIC TAPE PER COLOR SCHEDULE, ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E. PANEL BOARD AND CIRCUIT ID'S).
- 7. PANEL BOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
- 8. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- 10. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE NOTED.
- 11. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER) 600 V, OIL RESISTANT THHN OR THHN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR LOCATION USED, UNLESS OTHERWISE SPECIFIED.
- 12. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE)
- 13. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND N.E.C.
- 14. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- 16. GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
- 17. RIGID NONMETALLIC CONDUIT(I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED; IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
- 18. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- 19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREWS FITTINGS ARE NOT ACCEPTABLE.
- 20. CABINETS, BOXES AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND N.E.C.
- 21. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL) AND RATED NEMA 1 (OR BETTER).
- 22. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1(OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS

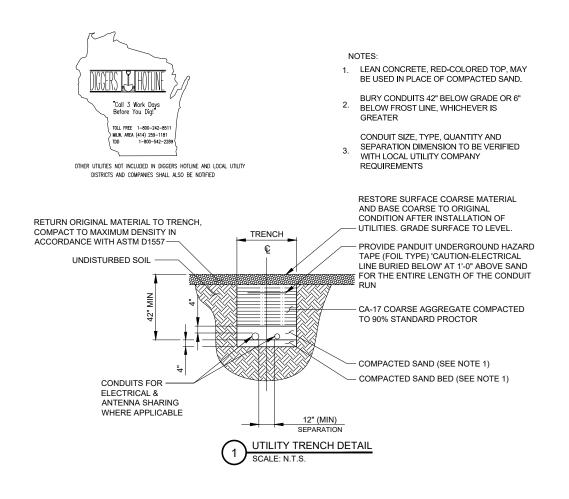
- METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NI BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- 24. NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BET
- 25. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FRU CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PAN
- 26. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, C DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDA SAFEGUARD AGAINST LIFE AND PROPERTY

GROUNDING NOTES

- ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIG AND AC POWER GES'S) SHALL BE BONDED TOGETHER BELOW GRADE, BY TWO OR I BONDING CONDUCTORS IN ACCORDANCE WITH THE N.E.C.
- THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHA INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST R LESS.
- THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUND DAMAGE TO THE CONDUIT & PROVIDE TESTING RESULTS.
- 4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTI BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG CO APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- METAL RACEWAY SHALL NOT BE USED AS THE N.E.C. REQUIRED EQUIPMENT GROU STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANC SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMINED
- 6. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED. BA CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUS ARE PERMITTED.
- ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND 1 SHALL BE #2 AWG SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
- 8. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED CONNECTIONS.
- USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOI CAN BE ADEQUATELY SUPPORTED.
- 10. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW (
- ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR & EXTERIOR) SHALL BE FOR PRESS CRIMPS.
- 12. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD
- ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOL AND THE TOWER GROUND BAR.
- APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE U COMPRESSION AND BOLTED GROUND CONNECTIONS, IF REQUIRED BY EQUIPMENT INSTRUCTIONS (NEC 110-3 (B)).
- 15. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RES
- MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND S BONDED TOT HE GROUND RING, IN ACCORDANCE WITH THE N.E.C.
- 17. BOND ALL METALLIC OBJECTS WITHIN 6 FT. OF MAIN GROUND WIRES WITH (1) #2 AW COPPER GROUND CONDUCTOR.
- 18. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE COMETALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOR REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE SUED. WHERE CONDUIT IS UNAVOIDABLE (E.G., NON-METALLIC CONDUIT SHALL BE VICAL COCONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.

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PREPARED FOR TowerNorth 750 W CENTER ST, SUITE 301														
W SIT	750 W CENTER ST, SUITE 301 WEST BRIDGEWATER, MA 02379 SITEACCESS@TOWERNORTH.COM 1-888-315-0220x3													
PLANS	PLANS PREPARED BY: TERRER CONSULTING ENGINARY PARK RIDGE, IL 60068 PH: 847-698-6400 FAX: 847-698-6401 CARRIER:													
Verizon 1701 GOLF ROAD, TOWER 2, SUITE 400 ROLLING MEADOWS, IL 60008 PHONE: (847) 619-5397 FAX: (847) 706-7415														
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TOTAL:						23.56kW (9	8.2A)		

SURFACE MOUNTED NEMA 3R w/ DOOR 22K AIC BREAKERS (CONTRACTOR SHALL VERIFY AIC RATINGS W/ LOCAL POWER CO.)

2 PANEL BOARD SCHEDULE N.T.S.

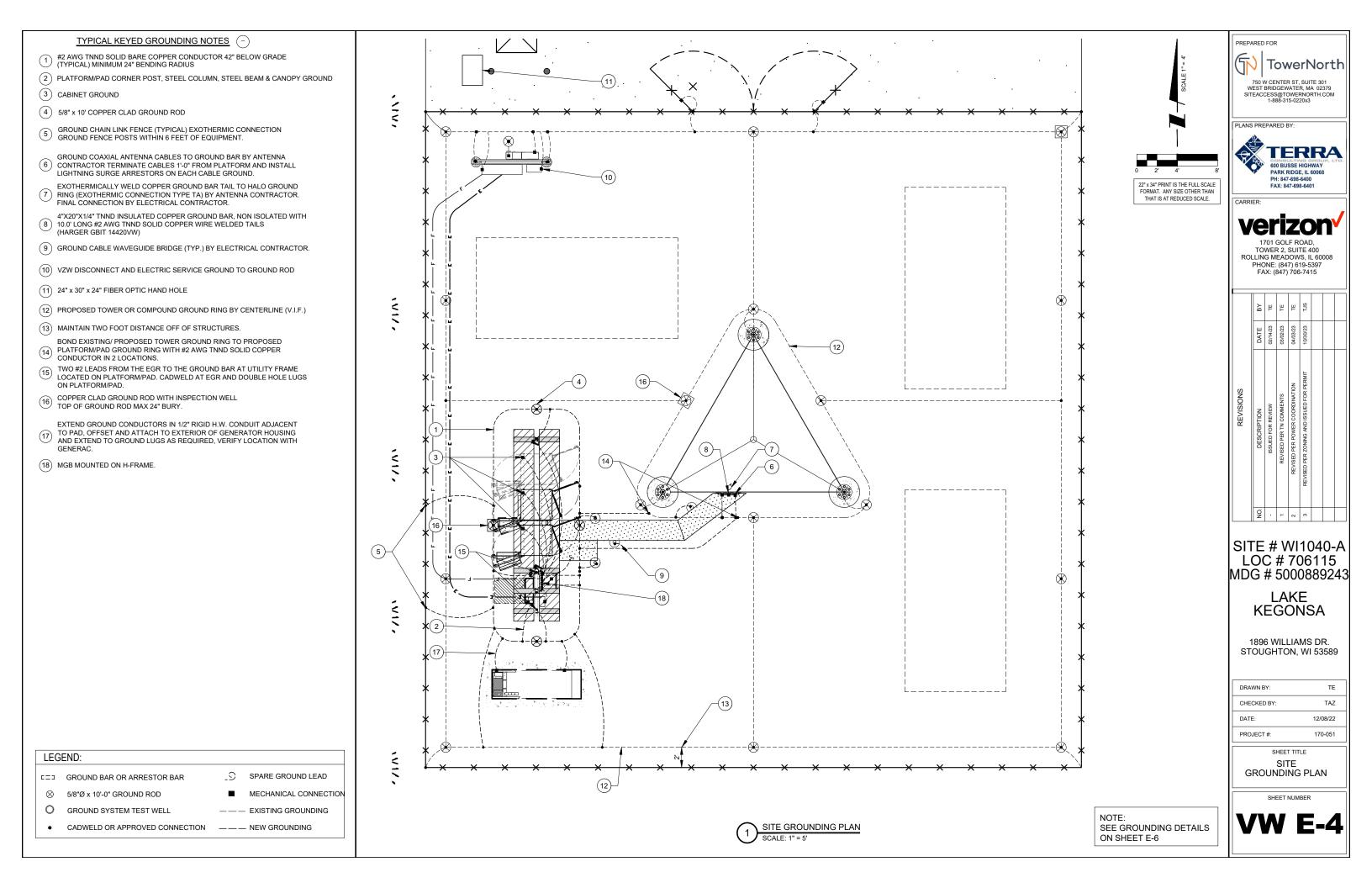
2. GENER

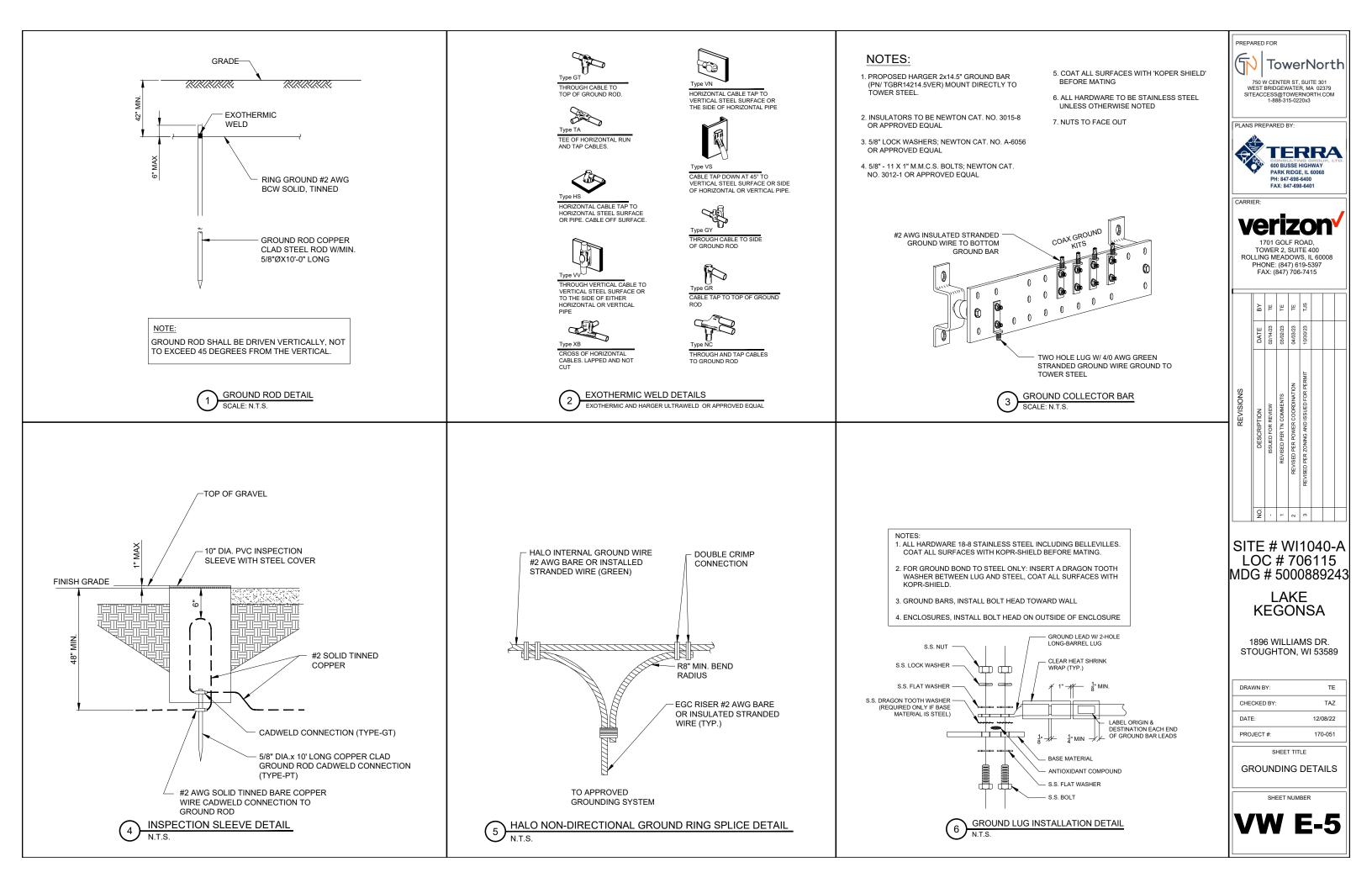
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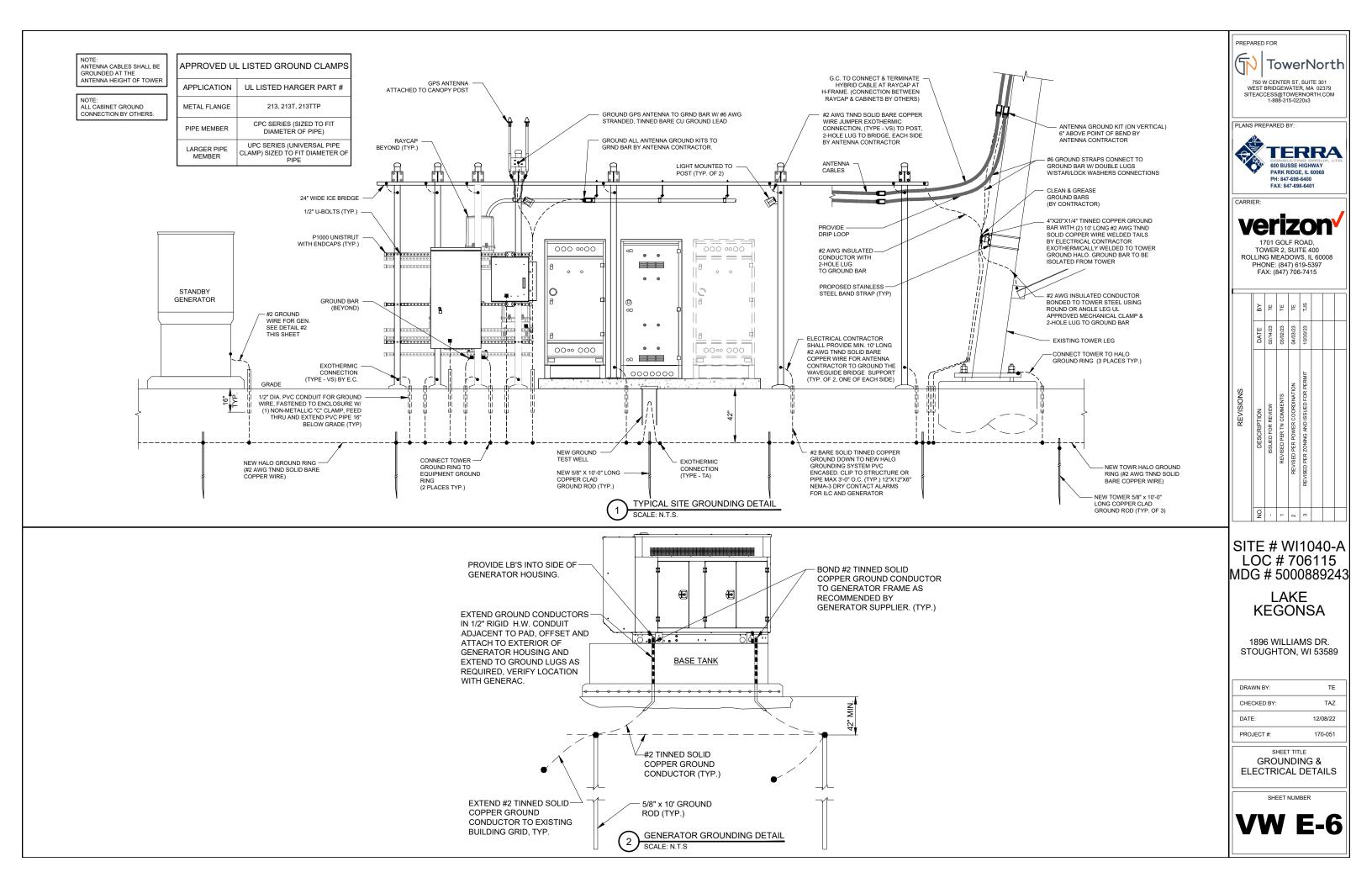
1. VERIZON WIRELESS EQUIPMENT ENGINEERING TO SUPPLY BREAKER FOR RADIO AND POWER CABINETS

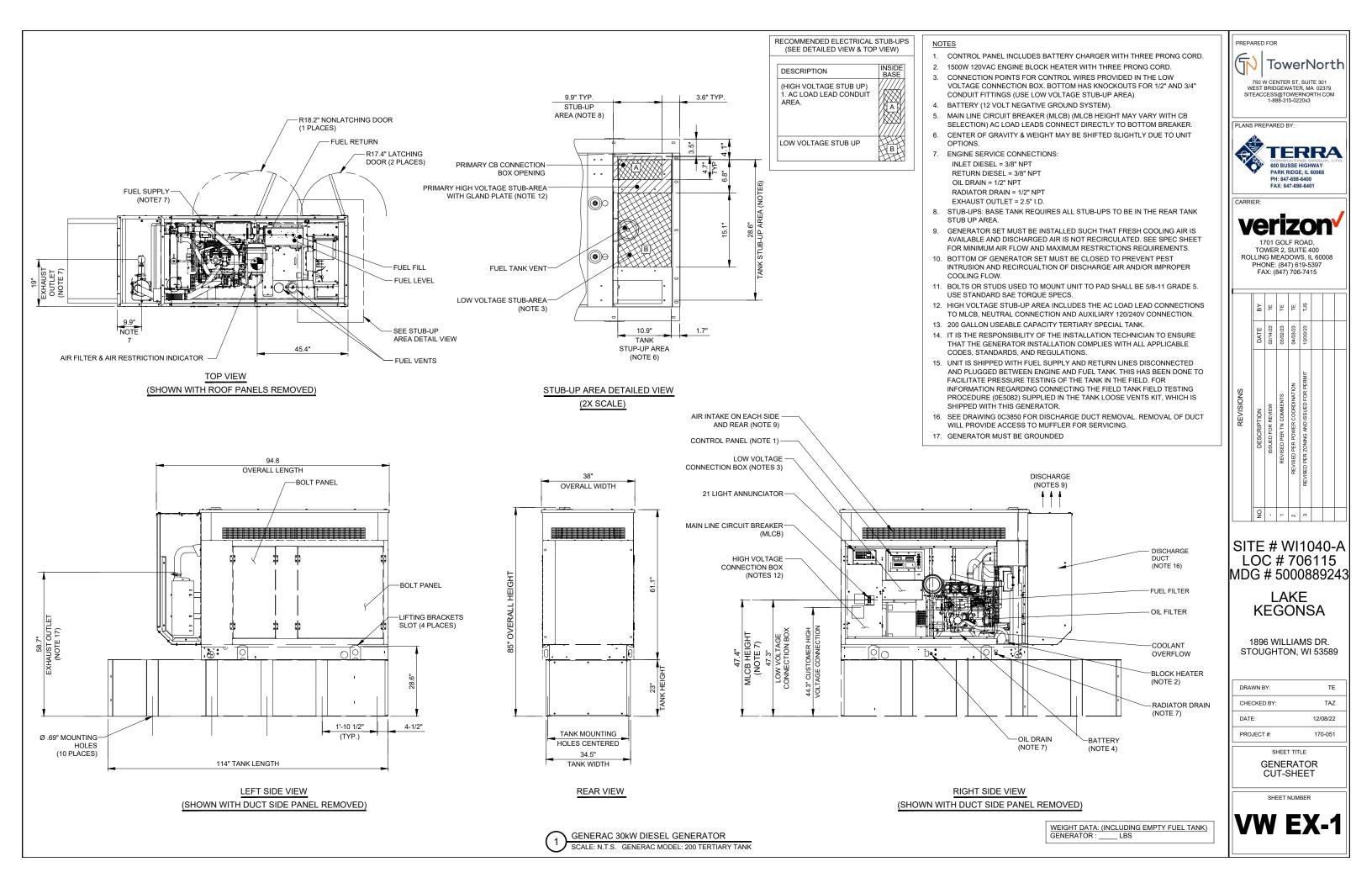
2. GENERAL CONTRACTOR TO SUPPLY BREAKERS NOTED WITH " * "

750 W CENTER ST, SUITE 301 WEST BRIDGEWATER, MA 02379 SITEACCESS@TOWERNORTH.COM 1-888-315-0220x3								
PLANS PREPARED BY: TERREAL GOUBUSE HIGHWAY PARK RIDGE, IL 60068 PH: 847-698-6400 FAX: 847-698-6401								
CARRIER: Verizon 1701 GOLF ROAD, TOWER 2, SUITE 400 ROLLING MEADOWS, IL 60008 PHONE: (847) 619-5397 FAX: (847) 706-7415								
REVISIONS	BΥ	Ħ	ΤE	Ħ	TJS			
	DATE	02/14/23	03/02/23	04/03/23	10/30/23			
	DESCRIPTION	ISSUED FOR REVIEW	REVISED PER TN COMMENTS	REVISED PER POWER COORDINATION	REVISED PER ZONING AND ISSUED FOR PERMIT			
	ÖZ	•	-	5	。 1(ר זע		
SITE # WI1040-A LOC # 706115 MDG # 5000889243 LAKE KEGONSA								
1896 WILLIAMS DR. STOUGHTON, WI 53589								
DRAWN BY:					TE			
CHECKED BY: DATE:					TAZ 12/08/22			
PROJECT #: 170-051 SHEET TITLE ELECTRICAL DETAILS								
SHEET NUMBER								











WEST > Upper Midwest > Illinois/Wisconsin > Wisconsin > Lake_Kegonsa_NB

RF Submit by: Parikh, Hemal - hemal.parikh@verizonwireless.com - 11/7/2022, 11:08:11 AM EE Submit by: , - -

Project Details	Location Information
FUZE Project ID: 16679409	Site ID: 617098737
Project Name: Lake_Kegonsa_NB	E-NodeB ID:
Project Alt Name: Lake_Kegonsa_NB	PSLC: 706115
Project Type: Initial Build	Switch Name:
Modification Type:	Tower Owner:
Designed Sector Carrier 4G: 30	Tower Type: Monopole
Designed Sector Carrier 5G: 3	Site Type: MACRO
Additional Sector Carrier 4G: N/A	Site Sub Type: TRADITIONAL
Additional Sector Carrier 5G: N/A	Street Address: 1896 Williams Dr
FP Solution Type & Tech Type: MCR;4G_700,4G_AWS,4G_PCS	City: Stoughton
Carrier Aggregation: false	State: WI
MPT Id:	Zip Code: 53589
eCIP-0: false	County: Dane
Suffix:	Latitude: 42.950783 / 42° 57' 2.8188" N
	Longitude: -89.215796 / 89° 12' 56.8656" W

									Antenna	Summary						
Added																
700	1900	AWS	AWS3	CBRS	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID	
LTE	LTE 5G	LTE	LTE			COMMSCOPE	NHH-65C-R2B	175	179	0(0001) 0(01) 110(0002) 110(02) 240(0003) 240(03)	false	false	PHYSICAL	6	NHH-65C-R2B	
				LTE		ERICSSON	KRE105281/1	173	173.3	0(19) 110(20) 240(21)	false	false	PHYSICAL	3		
					5G	Ericsson	AIR6449	172	173.3	0(0001) 110(0002) 240(0003)	false	false	PHYSICAL	3		
Remove	d															
700	1900	AWS	AWS3	CBRS	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID	
									No data a	vailable.						
Retained	1															
700	1900	AWS	AWS3	CBRS	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID	
									No data a	vailable.						
							Added: 3	12	Removed	: 0	Retained	: 0				

RFDS Project Scope:

									Equipment Su	mmary					
dded															
quipment Type	Location	700	1900	AWS	AWS3	CBRS	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID	
RU	Tower					LTE		Ericsson	4408 B48 DC			PHYSICAL	3	KRC161746/1	
RU	Tower	LTE						Ericsson	4449			PHYSICAL	3	KRC161749/1	
RU	Tower		LTE 5G	LTE	LTE			Ericsson	8843			PHYSICAL	6	KRC161707/2	
RRU	Tower						5G	Ericsson	AIR6449			PHYSICAL	3		
emoved															
quipment Type	Location	700	1900	AWS	AWS3	CBRS	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID	

No data available.

 Equipment Type
 Location
 700
 1900
 AWS
 CBRS
 L-Sub6
 Made
 Model
 Cable Length
 Cable Size
 Install Type
 Quantity
 Item ID



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Retained

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Antenna Summary

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Service Info

	CAND	
01	02	03
0	110	240
NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B
COMMSCOPE	COMMSCOPE	COMMSCOPE
175	175	175
0	0	0
0	0	0
179	179	179
377.19	377.19	377.19
66936	66936	66936
10	10	10
2069.19	2069.19	2069.19
Ericsson	Ericsson	Ericsson
2x8843	2x8843	2x8843
4,4	4,4	4,4
15250547	15250552	15250539
ATOLL_API	ATOLL API	ATOLL API

Sector	19 19	
Azimuth	19 19 0 0	
	UUU	
	KRE105281/1 KRE105	281/1 KRE
	KRE105201/1 KRE105	.01/1 KRE.
	EDICCCON	011 50
	ERICSSON ERICS	
	173 173	
	0 0	
	8 8	
	173.3 173.	
	28.03 28.0	
	55790 5589	
Hz)	10 10	
	38.44 38.4	
	Ericsson Ericss	ion Er
	4408 B48 DC 4408 B4	8 DC 4408
	4,4 4,4	
	15250968 15251	034 15
	ATOLL_API ATOLL	API ATO
	19 20	
	0 110	
	KRE105281/1 KRE105	281/1 KRE
	ERICSSON ERICS	SON ERI
	173 173	
	0 0	
	8 8	
	173.3 173.	
	28.03 28.0	
	56090 5579	0
	10 10	
	38.44 38.4	4
		4
	Ericsson Ericss	
	4408 B48 DC 4408 B4	
	4,4 4,4	
	15251166 15250	969 15
	ATOLL_API ATOLL	
	20 20	
	110 110	
	KRE105281/1 KRE105	281/1 KR
	KREIUSZOI/I KREIUS	.01/1 KF
	ERICSSON ERICS	
	173 173	
	0 0	
	8 8	
	173.3 173.	
	28.03 28.0	
	55990 5609	0
	10 10	
	38.44 38.4	4
		4
	Friender	ion E
	Ericsson Ericss	
	4408 B48 DC 4408 B4	
	4,4 4,4	
	15251101 15251	167 1
	13231101 13231	.07 11
	ATOLL_API ATOLL	API AT
	21	
	240	
	KRE105291/1	
	KRE105281/1	

ERICSSON	21	21
173	240	240
0		
8	KRE105281/1	KRE105281/1
173.3		
28.03	ERICSSON	ERICSSON
55890	173	173
	0	0
10	8	8
38.44	173.3	173.3
	28.03	28.03
	55990	56090
Ericsson		
4408 B48 DC	10	10
4,4	38.44	38.44
15251036		
ATOLL_API	Ericsson	Ericsson
	4408 B48 DC	4408 B48 DC
	4.4	4.4
	15251102	15251168
	ATOLI ARI	ATOLI ARI

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		CAND
Sector	01	02
Azimuth	0	110
le B ID		
el	NHH-65C-R2B	NHH-65C-R2B
	COMMSCOPE	COMMSCOPE
	175	175
	0	0
	0	0
	179	179
	149.82	149.82
	5230	5230
	10	10
	1348.34	1348.34
	Ericsson	Ericsson
	4449	4449
	4.4	4,4
	15250543	15250549
	ATOLL API	ATOLL API

Sector
Azimuth
Cell / ENode B ID
Antenna Model
Antenna Make
Antenna Centerline(Ft)
Mechanical Down-Tilt(Deg.)
Electrical Down-Tilt
Tip Height
Regulatory Power
DLEARFCN
Channel Bandwidth(MHz)
Total ERP (W)
TMA Make
TMA Model
RRU Make
RRU Model
Number of Tx, Rx Lines
Position

Transmitter In Source

Pronrieta

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Page 6 of 1

01 0 NHH-65C-R2B	02
NHH-65C-R2B	110
NHH-65C-R2B	
	NHH-65C-R2B
COMMSCOPE	COMMSCOPE
175	175
	0
	0
	179
	251.46
975	875
5	15
	2069.19
	Ericsson
	2x8843
4,4	4,4
15251417	15251415
	ATOLL API
_	-
	03
240	240
NUUL 65 C 0.20	NHH-65C-R2B
NHH-03C-R2B	NHH-00C-R2B
COMMSCOPE	COMMSCOPE
175	175
0	0
0	0
	179
179	
179 251.46	754.38
179	
179 251.46 875	754.38
179 251.46	754.38 975
179 251.46 875 15	754.38 975 5
179 251.46 875 15 2069.19	754.38 975 5 2069.19
179 251.46 875 15 2069.19 Ericsson	754.38 975 5 2069.19 Ericsson
179 251.46 875 15 2069.19 Ericsson 2x8843	754.38 975 5 2069.19 Ericsson 2x8843
179 251.46 875 15 2069.19 Ericsson	754.38 975 5 2069.19 Ericsson
179 251.46 875 15 2069.19 Ericsson 2x8843	754.38 975 5 2069.19 Ericsson 2x8843
	2069.19 Ericsson 2x8843 4,4 15521417 ATOLL_API 03 240 NHH-65C.R2B COMMSCOPE 175 0

5GNR		CAND	
Sector	0001	0002	0003
Azimuth	0	110	240
Cell / ENode B ID			
Antenna Model	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2E
Antenna woder	NHH-03C-R2B	NHH-ODC-R2B	NHH-03C-R20
Antenna Make	COMMSCOPE	COMMSCOPE	COMMSCOPE
Antenna Centerline(Ft)	175	175	175
Mechanical Down-Tilt(Deg.)	0	0	0
Electrical Down-Tilt	0	0	0
Tip Height	179	179	179
Regulatory Power	251.46	251.46	251.46
DLEARFCN	875	875	875
Channel Bandwidth(MHz)	15	15	15
Total ERP (W)	2069.19	2069.19	2069.19
TMA Make			
TMA Model			
RRU Make	Ericsson	Ericsson	Ericsson
RRU Model	2x8843	2x8843	2x8843
Number of Tx, Rx Lines	4,4	4,4	4,4
Position			
Transmitter Id	15251414	15251415	15251416
Source	ATOLL_API	ATOLL_API	ATOLL_API
	-	CAND	
Sector	01	02	03
Azimuth			240
	0	110	240
Cell / ENode B ID			
Antenna Model	NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2E
Antenna Make	COMMSCOPE	COMMSCOPE	COMMSCOPE
Antenna Centerline(Ft)	175	175	175
Mechanical Down-Tilt(Deg.)	0	0	0
Mechanical Down-Tilt(Deg.) Electrical Down-Tilt	0	0	0
Mechanical Down-Tilt(Deg.) Electrical Down-Tilt Tip Height	0 0 179	0 0 179	0 0 179
lechanical Down-Tilt(Deg.) Electrical Down-Tilt Tip Height Regulatory Power	0 0 179 377.19	0 0 179 377.19	0 0 179 377.19
hanical Down-Tilt(Deg.) Electrical Down-Tilt Tip Height	0 0 179	0 0 179	0 0 179
chanical Down-Tilt(Deg.) Electrical Down-Tilt Tip Height Regulatory Power DLEARFCN	0 0 179 377.19 2350	0 0 179 377.19 2350	0 0 179 377.19 2350
echanical Down-Tilt(Deg.) Electrical Down-Tilt Tip Height Regulatory Power DLEARFCN Channel Bandwidth(MHz)	0 0 179 377.19 2350 10	0 179 377.19 2350 10	0 0 179 377.19 2350 10
Aechanical Down-Tilt(Deg.) Electrical Down-Tilt Tip Height Regulatory Power DLEARFCN Channel Bandwidth(MHz) Total ERP (W)	0 0 179 377.19 2350	0 0 179 377.19 2350	0 0 179 377.19 2350
echanical Down-Tilt(Deg.) Electrical Down-Tilt Tip Height Regulatory Power DLEARFCN Channel Bandwidth(MHz) Total ERP (W) TMA Make	0 0 179 377.19 2350 10	0 179 377.19 2350 10	0 0 179 377.19 2350 10
Mechanical Down-Tilt(Deg.) Electrical Down-Tilt Tip Height Regulatory Power DLEARFCN Channel Bandwidth(MHz) Total ERP (W) TMA Make TMA Madel	0 0 179 377.19 2350 10 2069.19	0 179 377.19 2350 10 2069.19	0 0 179 377.19 2350 10 2069.19
Iechanical Down-Titt(Deg.) Electrical Down-Titt Tip Height Regulatory Power DLEARFCN Channel Bandwidth(MHz) Total ERP (W) TMA Make TMA Make RRU Make	0 0 179 377.19 2350 10 2069.19 Ericsson	0 0 179 2350 10 2069.19 Ericsson	0 179 377.19 2350 10 2069.19 Ericsson
lechanical Down-Tilt(Deg.) Electrical Down-Tilt Tip Height Regulatory Power DLEARFCN Channel Bandwidth(MHz) TMA Make TMA Make RRU Make RRU Make RRU Make	0 0 179 2350 10 2069.19 Ericsson 2x8843	0 0 179 2350 10 2069.19 Ericsson 2x8843	0 0 179 377.19 2350 10 2069.19 Ericsson 2x8843
Mechanical Down-Titt(Deg.) Electrical Down-Titt Tip Height Regulatory Power DLEARFCN Channel Bandwidth(MHz) Total ERP (W) TMA Make TMA Model RRU Make RRU Make Number of Tx, Rx Lines	0 0 179 377.19 2350 10 2069.19 Ericsson	0 0 179 2350 10 2069.19 Ericsson	0 179 377.19 2350 10 2069.19 Ericsson
Mechanical Down-Titt(Deg.) Electrical Down-Titt Regulatory Power DLEARFCN Channel Bandwidth(MHz) Total ERP (W) TMA Make TMA Make RRU Make RRU Make Number of Tx, fix Lines Position	0 179 177.19 2350 10 2069.19 Ericsson 2x8843 4.4	0 179 177.19 2350 10 2069.19 Ericsson 2x8843 4,4	0 0 179 377.19 2350 10 2069.19 Ericsson 2x8843 4,4
hanical Down-Titi(Deg.) Electrical Down-Titi Tip Height Regulatory Power DLEARCN hannel Bandwidth(MHz) Total ERP (W) TMA Make TMA Model RRU Model RRU Model Number of Tx, Rx Lines	0 0 179 2350 10 2069.19 Ericsson 2x8843	0 0 179 2350 10 2069.19 Ericsson 2x8843	0 0 179 377.19 2350 10 2069.19 Ericsson 2x8843

Sector
Azimuth
Cell / ENode B ID
Antenna Model
Antenna Make
Antenna Centerline(Ft)
Mechanical Down-Tilt(Deg.)
Electrical Down-Tilt
Tip Height
Regulatory Power
DLEARFCN
Channel Bandwidth(MHz)
Total ERP (W)
TMA Make
TMA Model
RRU Make
RRU Model
Number of Tx, Rx Lines
Position
Transmitter Id
Source

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Callsigns Pe	r Antenna

Sector	Antenna Make	Antenna Model	Ant CL		Azimuth			Gain		Regulatory	Callsigns						
			Height AGL	Height	(TN)	Tilt	Tilt		Width	Power	700	850	1900	2100	28 GHz	31 GHz	39 GHz
						No	data availa	blo									

Callsign	Market	Radio Code	Market Number	Block	State	County	Licensee Name	Wholly Owned		Freq Range 1	Freq Range 2	Freq Range 3	Freq Range 4	Regulatory Power	Threshold (W)	POPs /Sq Mi	Status	Action	Appr for Insvo
WQJQ691	Great Lakes	wu	REA003	с	WI	Dane	Cellco Partnership	Yes	22.000	746.000- 757.000	776.000- 787.000	.000000	.000000	149.82	1000	469.00	Active	added	Yes
KNLF240	Milwaukee	CW	MTA020	В	WI	Dane	Cellco Partnership	Yes	30.000	1870.000- 1885.000	1950.000- 1965.000	.000000	.000000	754.38	1640	469.00	Active	added	Ye
KNLH214	Madison, WI	CW	BTA272	E	WI	Dane	AirTouch Cellular	Yes	10.000	1885.000- 1890.000	1965.000- 1970.000	.000000	.000000	754.38	1640	469.00	Active	added	Ye
WQVP249	Madison, WI	ΑΤ	CMA113	G	WI	Dane	Cellco Partnership	Yes	10.000	1755.000- 1760.000	2155.000- 2160.000	.000000	.000000	377.19	1640	469.00	Active	added	Ye
WQVN981	Madison, WI-IL-IA	ΑΤ	BEA104	н	WI	Dane	Cellco Partnership	Yes	10.000	1760.000- 1765.000	2160.000- 2165.000	.000000	.000000	377.19	1640	469.00	Active	added	Ye
CBRS_CAL	UNLICENSED	3.5 GHz	UNLICEN	UNLIC	WI	Dane	UNLICENSED	UNLIC	UNLICEN	UNLICENSED- UNLICENSED	UNLICENSED- UNLICENSED	UNLICENSED- UNLICENSED	UNLICENSED- UNLICENSED	28.03		469.00	Active	added	No
WRNF758	Madison, WI	РМ	PEA122	Al	WI	Dane	Cellco Partnership	Yes	20.000	3700.000- 3720.000	.000000	.000000	.000000	1365.07	1640	469.00	Active	added	Ye
WRNF759	Madison, WI	РМ	PEA122	A2	WI	Dane	Cellco Partnership	Yes	20.000	3720.000- 3740.000	.000000	.000000	.000000	1365.07	1640	469.00	Active	added	Ye
WRNF760	Madison, WI	РМ	PEA122	AЗ	WI	Dane	Cellco Partnership	Yes	20.000	3740.000- 3760.000	.000000	.000000	.000000	1365.07	1640	469.00	Active	added	Ye
WQGA717	Great Lakes	AW	REA003	F	WI	Dane	Cellco Partnership	Yes	20.000	1745.000- 1755.000	2145.000- 2155.000	.000000	.000000	377.19	1640	469.00	Active	added	Ye
WREF949	C55025 - Dane, WI	UU	C55025	L1	WI	Dane	Cellco Partnership	Yes	425.000	27500.000- 27925.000	.000000	.000000	.000000			469.00	Active		Ye
WRHF325	Madison, WI	UU	PEA122	M1	WI	Dane	Straight Path Spectrum, LLC	Yes	100.000	37600.000- 37700.000	.000000	.000000	.000000			469.00	Active		Y
WRHF326	Madison, WI	UU	PEA122	M10	WI	Dane	Straight Path Spectrum, LLC	Yes	100.000	38500.000- 38600.000	.000000	.000000	.000000			469.00	Active	N/A	N
WRHF327	Madison, WI	UU	PEA122	M2	WI	Dane	Straight Path Spectrum, LLC	Yes	100.000	37700.000- 37800.000	.000000	.000000	.000000			469.00	Active		Y
WRHF328	Madison, WI	UU	PEA122	МЗ	WI	Dane	Straight Path Spectrum, LLC	Yes	100.000	37800.000- 37900.000	.000000	.000000	.000000			469.00	Active		Ye
WRHF329	Madison, WI	UU	PEA122	M4	WI	Dane	Straight Path Spectrum, LLC	Yes	100.000	37900.000- 38000.000	.000000	.000000	.000000			469.00	Active		Ye
WRHF330	Madison, WI	UU	PEA122	M5	WI	Dane	Straight Path Spectrum, LLC	Yes	100.000	38000.000- 38100.000	.000000	.000000	.000000			469.00	Active		Ye
WRHF331	Madison, WI	UU	PEA122	M6	WI	Dane	Straight Path Spectrum, LLC	Yes	100.000	38100.000- 38200.000	.000000	.000000	.000000			469.00	Active		Y
WRHF332	Madison, WI	UU	PEA122	M7	WI	Dane	Straight Path Spectrum, LLC	Yes	100.000	38200.000- 38300.000	.000000	.000000	.000000			469.00	Active		Y
WRHF333	Madison, WI	UU	PEA122	M8	WI	Dane	Straight Path Spectrum, LLC	Yes	100.000	38300.000- 38400.000	.000000	.000000	.000000			469.00	Active		Y
WRHF334	Madison, WI	UU	PEA122	M9	WI	Dane	Straight Path Spectrum, LLC	Yes	100.000	38400.000- 38500.000	.000000	.000000	.000000			469.00	Active		Ye
WRHF335	Madison, WI	UU	PEA122	N1	WI	Dane	Straight Path Spectrum, LLC	Yes	100.000	38600.000- 38700.000	.000000	.000000	.000000			469.00	Active	N/A	No

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	CAND	
0001	0002	0003
0	110	240
AIR6449	AIR6449	AIR6449
Ericsson	Ericsson	Ericsson
172	172	172
0	0	0
6	6	6
173.3	173.3	173.3
1365.07	1365.07	1365.07
648672	648672	648672
60	60	60
23713.74	23713.74	23713.74
Ericsson	Ericsson	Ericsson
AIR6449	AIR6449	AIR6449
2,2	2,2	2,2
15250540	15250552	15250540
15250548 ATOLL_API	15250553 ATOLL_API	15250540 ATOLL API

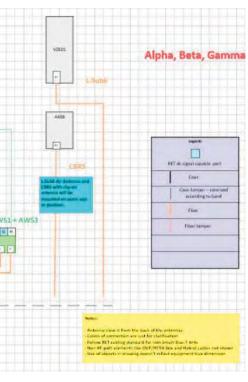
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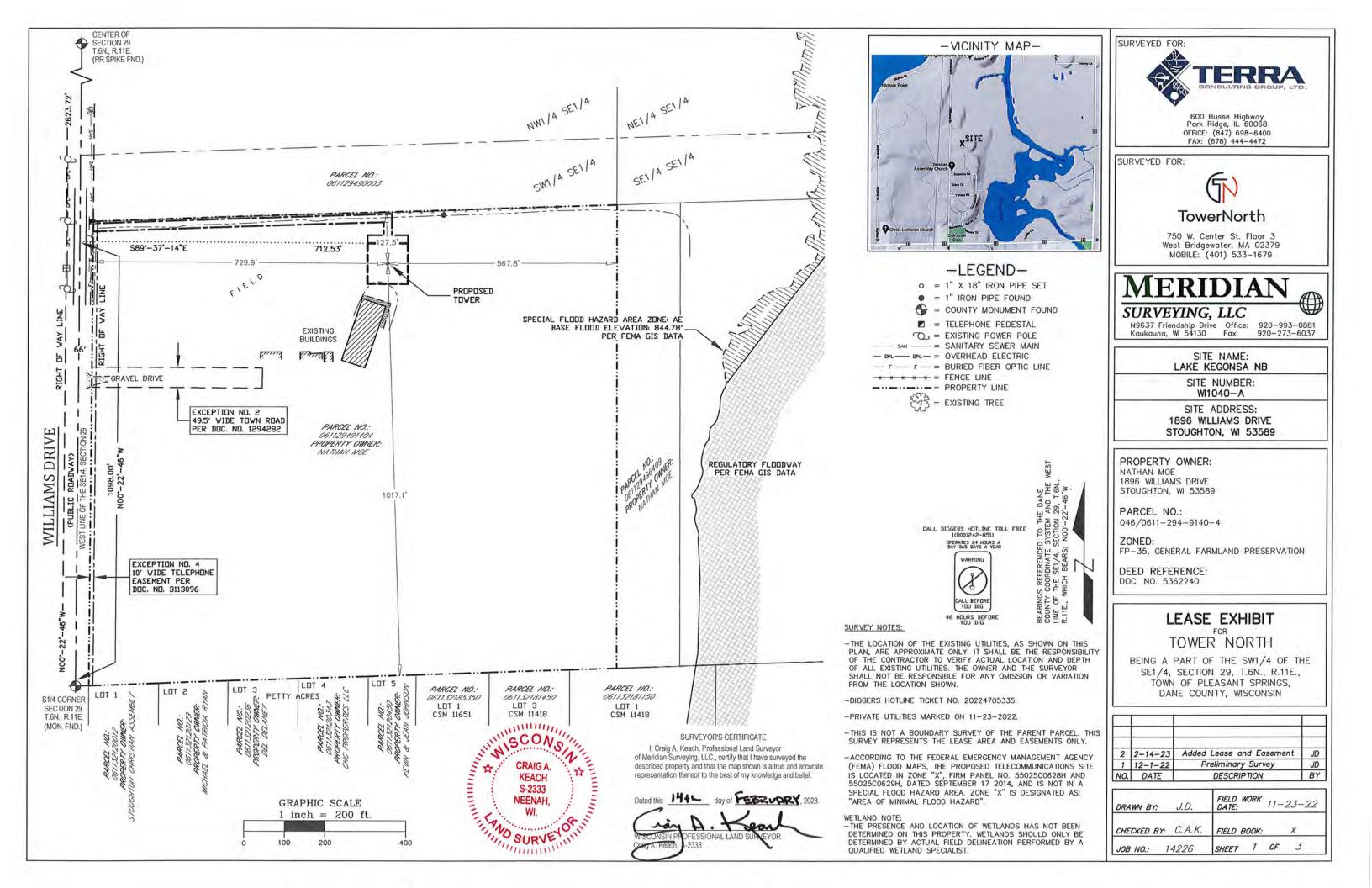
		HEX		
La Sand 4 Band 2 2 8 4 6 6		La first (#Band		
				1
700	PCS	AW51+AW53	PCS	AWS
4449 12 13		- 8843 D E	-	8843

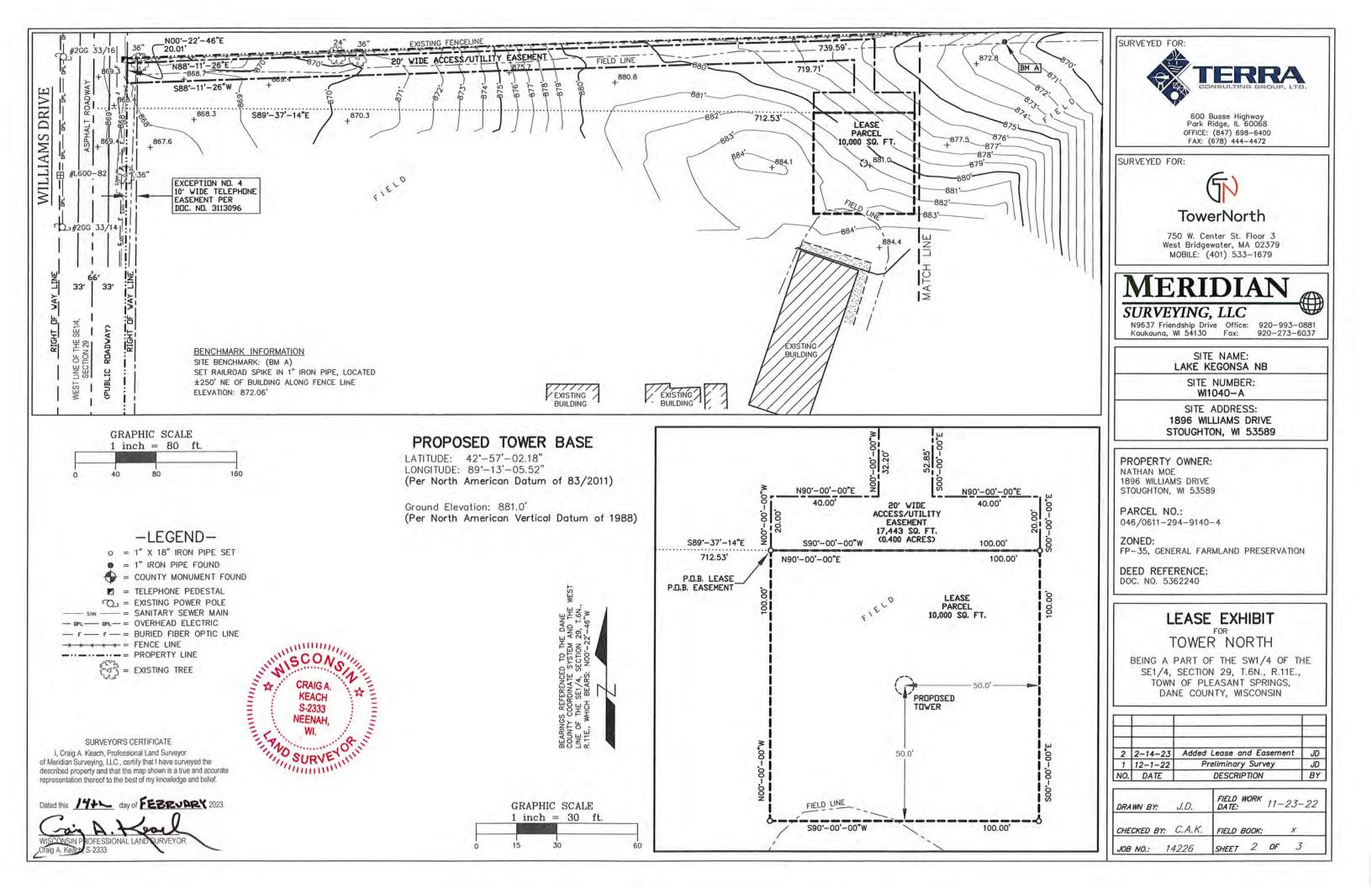
WRNF761	Madison, WI	PM	PEA122	A4	WI	Dane	Cellco Partnership	Yes	20.000	3760.000- 3780.000	.000000	.000000	.000000	1640	469.00	Active	Ye	ſes
WRNF762	Madison, WI	РМ	PEA122	A5	WI	Dane	Cellco Partnership	Yes	20.000	3780.000- 3800.000	.000000	.000000	.000000	1640	469.00	Active	Ye	ſes
WRNF763	Madison, WI	РМ	PEA122	B1	WI	Dane	Cellco Partnership	Yes	20.000	3800.000- 3820.000	.000000	.000000	.000000	1640	469.00	Active	No	lo
WRNF764	Madison, WI	РМ	PEA122	B2	WI	Dane	Cellco Partnership	Yes	20.000	3820.000- 3840.000	.000000	.000000	.000000	1640	469.00	Active	No	lo

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LEASE PARCEL

A PART OF THE SOUTHWEST QUARTER (SW1/4) OF THE SOUTHEAST QUARTER (SE1/4) OF SECTION TWENTY-NINE (29), TOWNSHIP SIX (6) NORTH, RANGE ELEVEN (11) EAST, TOWN OF PLEASANT SPRINGS, DANE COUNTY, WISCONSIN CONTAINING 10,000 SQUARE FEET (0.230 ACRES) OF LAND AND BEING DESCRIBED BY:

COMMENCING AT THE SOUTH QUARTER CORNER OF SAID SECTION 29; THENCE N00°-22'-46"W 1098.00 FEET ALONG THE WEST LINE OF THE SE1/4 OF SAID SECTION 29; THENCE S89°-37'-14"E 712.53 FEET TO THE POINT OF BEGINNING; THENCE N90°-00'-00"E 100.00 FEET; THENCE S00°-00'-00"W 100.00 FEET; THENCE S90°-00'-00"W 100.00 FEET; THENCE N00°-00'-00"W 100.00 FEET TO THE POINT OF BEGINNING; BEING SUBJECT TO ANY AND ALL EASEMENTS AND RESTRICTIONS OF RECORD.

20 FOOT WIDE ACCESS AND UTILITY EASEMENT

A PART OF THE SOUTHWEST QUARTER (SW1/4) OF THE SOUTHEAST QUARTER (SE1/4) OF SECTION TWENTY-NINE (29), TOWNSHIP SIX (6) NORTH, RANGE ELEVEN (11) EAST, TOWN OF PLEASANT SPRINGS, DANE COUNTY, WISCONSIN CONTAINING 17,443 SQUARE FEET (0.400 ACRES) OF LAND AND BEING DESCRIBED BY:

COMMENCING AT THE SOUTH QUARTER CORNER OF SAID SECTION 29; THENCE N00°-22'-46"W 1098.00 FEET ALONG THE WEST LINE OF THE SE1/4 OF SAID SECTION 29; THENCE S89°-37'-14"E 712.53 FEET TO THE POINT OF BEGINNING; THENCE N00°-00'-00"W 20.00 FEET; THENCE N90°-00'-00"E 40.00 FEET; THENCE N00°-00'-00"W 32.20 FEET; THENCE S88°-11'-26"W 719.71 FEET TO A POINT ON THE EAST RIGHT OF WAY LINE OF WILLIAMS DRIVE; THENCE N00°-22'-46"E 20.01 FEET ALONG SAID EAST RIGHT OF WAY LINE; THENCE N88°-11'-26"E 739.59 FEET; THENCE S00°-00'-00"E 52.85 FEET; THENCE N90°-00'-00"E 40.00 FEET; THENCE S00°-00'-00"E 20.00 FEET; THENCE S90°-00'-00"W 100.00 FEET TO THE POINT OF BEGINNING; BEING SUBJECT TO ANY AND ALL EASEMENTS AND RESTRICTIONS OF RECORD.

PARENT PARCEL

THE SOUTH HALF OF THE SOUTHEAST QUARTER OF SECTION 29, TOWNSHIP 6 NORTH, RANGE 11 EAST, EXCEPT THE NORTH 165 FEET THEREOF, TOWN OF PLEASANT SPRINGS, DANE COUNTY, WISCONSIN.

TITLE REPORT REVIEW

TITLE REPORT: BADGER TITLE COMPANY

COMMITMENT NO.: 2249790311

EFFECTIVE DATE: JANUARY 9, 2023

FEE SIMPLE TITLE VESTED IN: NATHAN M. MOE

NOTE: THE STATEMENT OF APPLICABILITY REFERS TO THE LEASE SITE AND ANY EASEMENTS PERTINENT THEREUNTO WHERE SPECIFIC ENCUMBRANCES AFFECT THE LEASED PREMISES AND/OR A PERTINENT EASEMENT, THEY ARE IDENTIFIED AS SUCH.

SCHEDULE B-II

- CONVEYANCE OF LANDS FOR HIGHWAY PURPOSES TO THE TOWN OF PLEASANT SPRINGS DATED 11/26/1949 AND RECORDED AS DOC. 816385, DOES NOT APPLY.
- (2) CONVEYANCE OF LANDS FOR HIGHWAY PURPOSES TO THE TOWN OF PLEASANT SPRINGS DATED 6/22/1971 AND RECORDED AS DOC. 1294282. DOES APPLY AND IS PLOTTED AND SHOWN.
- (3) GRANT AGREEMENT REGARDING PRIVATE SEWAGE SYSTEM DATED 8/3/83 AND RECORDED AS DOC. 1793754. GRANT AND AGREEMENT REGARDING PRIVATE SEWER SYSTEM. **DOES APPLY BUT IS NOT A SURVEY RELATED MATTER.**
- (4) EASEMENT TO WISCONSIN BELL, INC. D/B/A AMERITECH WISCONSIN DATED 3/1/1999 AND RECORDED AS DOC. 3113096.GRANT OF EASEMENT FOR TRANSMISSION OF SIGNALS. DOES APPLY AND IS PLOTTED AND SHOWN.



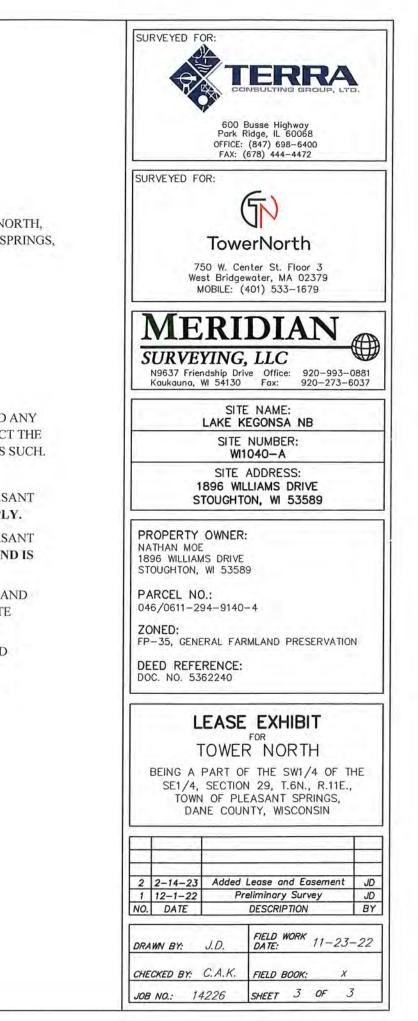


EXHIBIT F



November 29, 2023

Ms. Mary Caulfield Site Development Manager TowerNorth

RE: Proposed 180' Sabre Self-Supporting Tower for WI1040-A Lake Kegonsa, WI

Dear Ms. Caulfield,

Upon receipt of order, we propose to design a tower for the above referenced project for an ultimate Wind Speed of 115 mph and 40 mph + 3/4" radial ice, Structure Class II, Exposure Category D, and Topographic Category 1 in accordance with the Telecommunications Industry Association Standard ANSI/TIA-222-G, "Structural Standard for Antenna Supporting Structures and Antennas". The tower will be designed to support a total of four (4) wireless carriers at the following elevations: 175', 163', 153' and 143' (AGL).

When designed according to this standard, the wind pressures and steel strength capacities include several safety factors. Therefore, it is highly unlikely that the tower will fail structurally in a wind event where the design wind speed is exceeded within the range of the built-in safety factors.

Should the wind speed increase beyond the capacity of the built-in safety factors, to the point of failure of one or more structural elements, the most likely location of the failure would be within one or more of the tower members in the upper portion. This would result in a buckling failure mode, where the loaded member would bend beyond its elastic limit (beyond the point where the member would return to its original shape upon removal of the wind load).

Therefore, it is likely that the overall effect of such an extreme wind event would be localized buckling of a tower section. Assuming that the wind pressure profile is similar to that used to design the tower, the tower is most likely to buckle at the location of the highest combined stress ratio in the upper portion of the tower. This would result in the portion of the tower above the failure location "folding over" onto the portion of the tower below the failure location. *Please note that this letter only applies to the above referenced tower designed and manufactured by Sabre Towers & Poles.* In the unlikely event of total separation, this would result in a fall radius less than or equal to 127.5'.

Sincerely,

Amy R. Herbst, P.E. Senior Design Engineer



EXHIBIT G

REGIONAL MAP



PROJECT INFORMATION

PROJECT TYPE:

PROPOSED WIRELESS COMMUNICATION TOWER

PROJECT CONSULTANT:

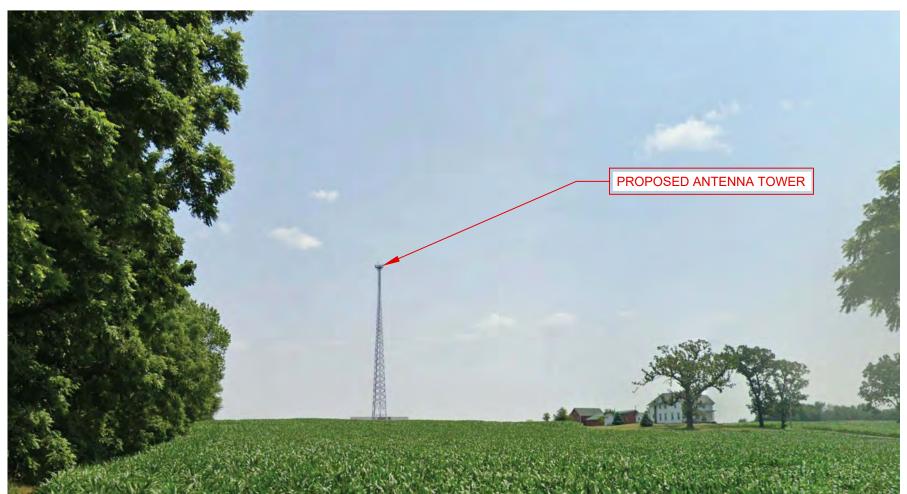
TERRA CONSULTING GROUP 600 BUSSE HIGHWAY PARK RIDGE, IL 60068 (847) 698-6400

LATITUDE: LONGITUDE: 42° 57' 02.18" N (1A CERTIFICATION) 89° 13' 05.10" W (1A CERTIFICATION)





BEFORE





AFTER

NOTE: THIS PHOTO SIMULATION IS A VISUAL INTERPRETATION OF THE PROPOSED DESIGN. FINAL CONSTRUCTION MAY DIFFER FROM WHAT IS PRESENTED HERE.

LAKE KEGONSA

View from West looking East

TowerNorth





BEFORE



AFTER

NOTE: THIS PHOTO SIMULATION IS A VISUAL INTERPRETATION OF THE PROPOSED DESIGN. FINAL CONSTRUCTION MAY DIFFER FROM WHAT IS PRESENTED HERE.

LAKE KEGONSA

View from Southwest looking Northeast

TowerNorth



EXHIBIT H

Aeronautical Study No. 2023-AGL-3797-OE



Mail Processing Center Federal Aviation Administration Southwest Regional Office Obstruction Evaluation Group 10101 Hillwood Parkway Fort Worth, TX 76177

Issued Date: 04/18/2023

Leslie Lindeman Palm-Tech Consulting, LLC 11365 Little Bear Way Boca Raton, FL 33428

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Antenna Tower Lake Kegonsa WI1040-A
Location:	Stoughton, WI
Latitude:	42-57-02.18N NAD 83
Longitude:	89-13-05.52W
Heights:	881 feet site elevation (SE)
	185 feet above ground level (AGL)
	1066 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Emissions from this site must be in compliance with the parameters set by collaboration between the FAA and telecommunications companies and reflected in the FAA 5G C band compatibility evaluation process (such as power, frequencies, and tilt angle). Operational use of this frequency band is not objectionable provided the Wireless Providers (WP) obtain and adhere to the parameters established by the FAA 5G C band compatibility evaluation process. **Failure to comply with this condition will void this determination of no hazard.**

See attachment for additional condition(s) or information.

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/ lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 10/18/2024 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within

6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination of No Hazard is granted provided the following conditional statement is included in the proponent's construction permit or license to radiate:

Upon receipt of notification from the Federal Communications Commission that harmful interference is being caused by the licencee's (permittee's) transmitter, the licensee (permittee) shall either immediately reduce the power to the point of no interference, cease operation, or take such immediate corrective action as is necessary to eliminate the harmful interference. This condition expires after 1 year of interference-free operation.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

A copy of this determination will be forwarded to the Federal Communications Commission (FCC) because the structure is subject to their licensing authority.

If we can be of further assistance, please contact our office at (816) 329-2525, or natalie.schmalbeck@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2023-AGL-3797-OE.

Signature Control No: 574304364-581709214 Natalie Schmalbeck Technician (DNE)

Attachment(s) Additional Information Frequency Data Map(s)

cc: FCC

Additional information for ASN 2023-AGL-3797-OE

BASIS FOR DECISION

Part 77 authorizes the FAA to evaluate a structure or object's potential electromagnetic effects on air navigation, communication facilities, and other surveillance systems. It also authorizes study of impact on arrival, departure, and en route procedures for aircraft operating under visual or instrument flight rules, as well as the impact on airport traffic capacity at existing public use airports. Broadcast in the 3.7 to 3.98 GHz frequency (5G C band) currently causes errors in certain aircraft radio altimeters and the FAA has determined they cannot be relied upon to perform their intended function when experiencing interference from wireless broadband operations in the 5G C band. The FAA has adopted Airworthiness Directives for all transport and commuter category aircraft equipped with radio altimeters that prohibit certain operations when in the presence of 5G C band.

This determination of no hazard is based upon those mitigations implemented by the FAA and operators of transport and commuter category aircraft, and helicopters operating in the vicinity of your proposed location. It is also based on telecommunication industry and FAA collaboration on acceptable power levels and other parameters as reflected in the FAA 5G C band evaluation process.

The FAA 5G C band compatibility evaluation is a data analytics system used by FAA to evaluate operational hazards related to aircraft design. The FAA 5G C band compatibility evaluation process refers to the process in which the telecommunication companies and the FAA have set parameters, such as power output, locations, frequencies, and tilt angles for antenna that mitigate the hazard to aviation. As the telecommunication companies and methodology, the allowable frequencies and power levels may change in the FAA 5G C band compatibility evaluation process. Therefore, your proposal will not have a substantial adverse effect on the safe and efficient use of the navigable airspace by aircraft provided the equipment and emissions are in compliance with the parameters established through the FAA 5G C band compatibility evaluation process.

Any future changes that are not consistent with the parameters listed in the FAA 5G C band compatibility evaluation process will void this determination of no hazard.

Frequency Data for ASN 2023-AGL-3797-OE

LOW	HIGH	FREQUENCY		ERP
FREQUENCY	FREQUENCY	UNIT	ERP	UNIT
6	7	GHz	55	dBW
6	7	GHz	42	dBW
10	11.7	GHz	55	dBW
10	11.7	GHz	42	dBW
17.7	19.7	GHz	55	dBW
17.7	19.7		42	dBW
21.2	23.6	GHz	42 55	dBW
		GHz		
21.2	23.6	GHz	42	dBW
614	698	MHz	2000	W
614	698	MHz	1000	W
698	806	MHz	1000	W
806	901	MHz	500	W
806	824	MHz	500	W
824	849	MHz	500	W
851	866	MHz	500	W
869	894	MHz	500	W
896	901	MHz	500	W
901	902	MHz	7	W
929	932	MHz	3500	W
930	931	MHz	3500	W
931	932	MHz	3500	W
932	932.5	MHz	17	dBW
935	940	MHz	1000	W
940	941	MHz	3500	W
1670	1675	MHz	500	W
1710	1755	MHz	500	W
1850	1910	MHz	1640	W
1850	1990	MHz	1640	W
1930	1990	MHz	1640	W
1990	2025	MHz	500	W
2110	2200	MHz	500	W
2305	2360	MHz	2000	W
2305	2310	MHz	2000	W
2345	2360	MHz	2000	W
2496	2690	MHz	500	W
3700	3980	MHz	1640	W

Verified Map for ASN 2023-AGL-3797-OE

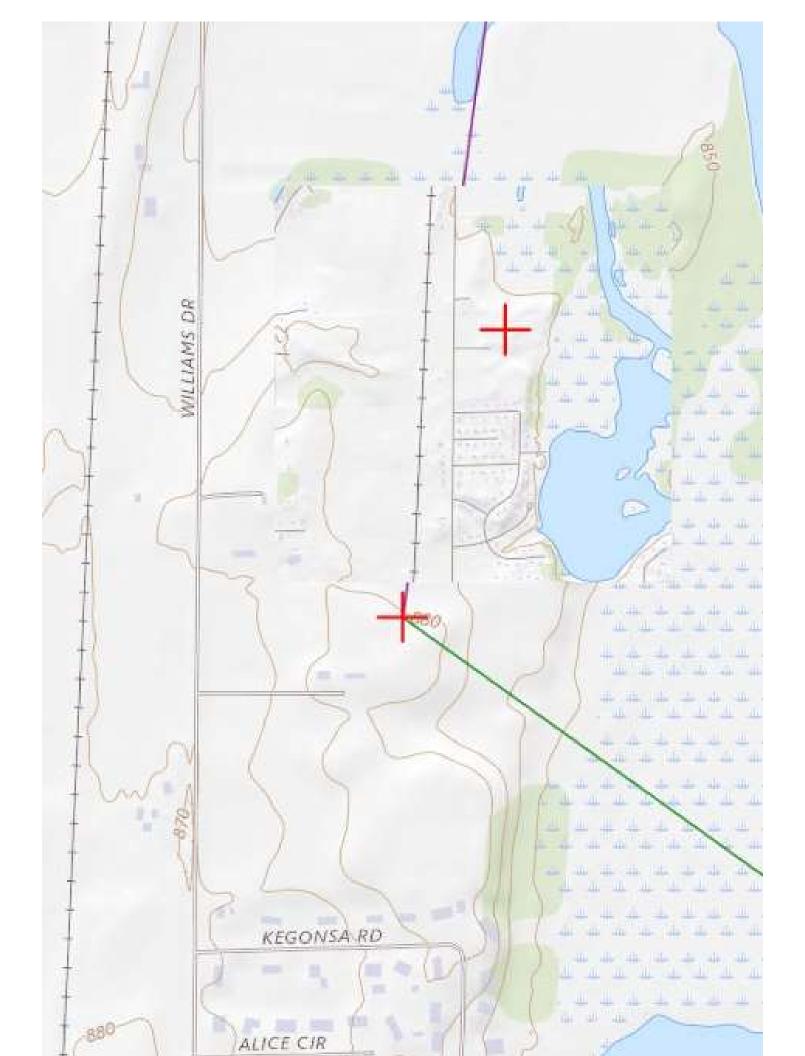


EXHIBIT I

GENERAC[®]

SD030 2.4 Liter Level 2A

Octave Band Sound Data SD030 2.4 Liter Diesel

Test Date Test Reque Generator Enclosure Unit Dime Engine Alternator Engine Spo Test Locat Instrument	Model nsions eed ion	3/14/2013 A-2-3738, SD030 2. Level 2 A 2.4 Liter 0 30 kW 39 1800 Waukesh TES135	A- T12 4 Liter Verizon Generac D 0 mm 240 a			Engine Firing Frequency Alt Fan Frequency Cooling Fan Frequency Test Conditions Temp ° F Barometric Pres Wind Speed mph Muffler Standard Fuel #2 Diesel			60 480 416 Sunny 58 30.65 2-4	
Те	st Load:	0	kW		Volt				7 Meters	
MICROPHONE	24 5	62				T		1	0000	dD
LOCATION FRONT	31.5 24.9	63 50.0	125 55.5	250 49.6	500 55.1	1000 47.5	2000 45.7	4000 41.5	8000 33.9	dB_A 61.2
RIGHT	24.9	52.0	55.5	49.0 50.5	56.5	47.5	50.4	41.5	38.4	61.8
REAR	26.8	47.4	52.5	52.1	56.5	51.5	48.3	44.8	35.8	62
LEFT	24.0	43.4	54.6	48.0	57.2	46.6	46.7	43.6	36.9	61.8
Average	25.2	48.2	54.5	50.0	56.3	48.4	47.8	43.0	36.3	61.7
Те	st Load:	30	kW		Volt				7 Meters	
MICROPHONE				OCTAVE	BAND CI	ENTER FF	REQUENC	Y		
LOCATION	31.5	63	125	250	500	1000	2000	4000	8000	dB _A
FRONT	21.7	59.7	54.3	49.1	56.1	47.5	46.5	42.1	34.5	62.7
RIGHT	21.3	58.5	56.4	52.5	55.4	50.7	53.0	44.2	38.8	63.0
REAR LEFT	24.1 26.6	55.9 47.7	51.9 53.5	53.1 48.8	56.7 57.5	52.0 47.2	48.8 48.1	45.0 43.4	34.8 37.4	62.9 62.6
Average	23.4	55.5	54.0	50.9	56.4	49.4	49.1	43.7	36.4	62.8
FRONT	Eng		Alternat		REAR	63.5 63 62.5 62 61.5 61 60.5 60		30 kW No Load A Enclosure ght Re	1	
	2. Test c 3. Data s	onducted on subject to o	on a 100 f change wi	oot diame	ter aspha		nerator set e.		Prelim	3/12

EXHIBIT J

NEPA CO-LOCATION STRUCTURE COMPLIANCE VERIFICATION (Construction After March 16, 2001)

DATE: July 14, 2023

Re: Proposed Collocation of telecommunication equipment by Verizon Wireless or one of its affiliates ("Tenant") on that certain tower, known as LAKE KEGONSA NB WI1040-A and located at address 1896 WILLIAMS DRIVE, STOUGHTON, WI 53589, latitude N 42° 57' 02.182" and longitude W 89° 13' 05.520" in the county of Dane, State of Wisconsin (the "Tower") owned by TowerNorth Development, LLC ("Owner")

To whom it may concern:

To facilitate Tenant's collocation of its telecommunications equipment on the above referenced Tower in compliance with the Nationwide Programmatic Agreement for the Collocation of Wireless Antennas executed by the Federal Communication Commission, the National Conference of State Historic Preservation Officers and the Advisory Council on Historic Preservation (the "Programmatic Agreement"), Owner makes the following statements:

- 1. Tower construction or redevelopment was competed after March 16, 2001.
- 2. The proposed collocation does not require a substantial increase in the size of the tower based on the plans provided by Lessee.
- 3. Owner has no knowledge of having received any written or electronic notification that the FCC has determined that the Tower has an effect on one or more historic properties, or if such an effect has been found, such effect has been found to be not adverse through a no adverse effect finding, or if found to be adverse or potentially adverse, the effect has been resolved through a conditional no adverse effect determination, a Memorandum of Agreement, a programmatic agreement, or otherwise in compliance with Section 106 and Subpart B of 36 CFR Pert 800.
- 4. Owner has no knowledge of having received any written or electronic notification that the Tower is the subject of a pending environmental review orrelated proceeding before the FCC involving compliance with Section 106 of the National Historic Preservation Act.
- 5. Owner has no knowledge of having received any written or electronic notification that the FCC is in receipt of a complaint from a member of the public, a State Historic Preservation Office, or the Advisory Council On Historic Preservation that the collocation has or will have an adverse effect on one or more historic properties.

As a lessee and FCC licensee on this structure, Verizon Wireless or one of its affiliates is obligated to ensure that owners are compliant with FAA/FCC regulations. *As explained in FCC Rule Part 17.47, the owner of any antenna structure must provide and properly maintain an automatic alarm system designed to detect any failure of all such lights <u>or</u> make an observation of the lights atleast once each 24 hours to ensure that all such lights are functioning properly as required.*

Type of structure circle one: BLDG w/Tower Lattice Monopole Guyed Tower Other:_

- X This structure is not currently marked or lighted in accordance with FAA/FCC regulations
- This structure is currently marked and lighted in accordance with FAA/FCC regulations
- This structure is electronically monitored by the owner.
- _____ This structure is electronically monitored by someone else.
- This structure is monitored by other means. (Please describe below)

Liz Rutkowski / Site Development Manager 401-533-1679 Lrutkowski@towernorth.com

> TowerNorth Development, LLC 750 W Center Street · Suite 301 · W Bridgewater, MA 02379 888-315-0220 x3

EXHIBIT K

From:	Elizabeth Erbes
Sent:	Thursday, July 13, 2023 6:07 PM
То:	GOODRICH, BRENTON; FLOWERS, ANDREW T; THEODORE, TOM
Cc:	Mary Caulfield; Liz Rutkowski; Bert Stern
Subject:	TowerNorth Site List July 2023 and Lake Kegonsa Highlight
Attachments:	TowerNorth Site List 7.13.23.xlsx; AT&T - Lake Kegonsa WI1040.png

Hi AT&T Team,

I thought I would check in with you again and send you our latest site list as it's growing! Please see attached and below recap.

TowerNorth's existing portfolio in the Midwest Region consists of:

- 37 Existing towers built in the last 24 months. All anchored by Verizon Wireless.
- All sites have available structural capacity to add at least 2 additional wireless tenants.
- Many were built in areas that lack AT&T coverage today.
- 60 "In Development" BTS towers for Verizon that will be delivered in the next 12-24 months.
- 6 of the "In Development" are newer sites are in MN/Great Plaines, please let me know if you still cover that market or who does?
- 3 of the 6 sites ON HOLD, do have active ground leases in place. TowerNorth is seeking an anchor tenant.

One site that is "In Development" that I wanted to highlight is WI1040 Lake Kegonsa. This site is slated to be delivered Q12024. We found through our desktop analysis that AT&T could also benefit in coverage for the area. It's a popular fishing and recreation area that attracts tourist with a small downtown area as well as a large state park. (see picture attached).



From:	Elizabeth Erbes
Sent:	Thursday, July 13, 2023 6:14 PM
То:	Pilgrim, Joanne; chris.lytle@t-mobile.com; mike.blassuti@t-mobile.com
Cc:	Mary Caulfield; Liz Rutkowski; Bert Stern
Subject:	TowerNorth Site List July 2023 and Lake Kegonsa Highlight
Attachments:	TowerNorth Site List 7.13.23.xlsx; T-Mobile TowerNorth Lake Kegonsa WI1040.png

Hi T-Mobile Team,

I thought I would check in with you again and send you our latest site list as it's growing! Please see attached and below recap.

TowerNorth's existing portfolio in the Midwest Region consists of:

- 37 Existing towers built in the last 24 months. All anchored by Verizon Wireless.
- All sites have available structural capacity to add at least 2 additional wireless tenants.
- Many were built in areas that T-Mobile coverage can improve today.
- 60 "In Development" BTS towers for Verizon that will be delivered in the next 12-24 months.
- 6 of the "In Development" are newer sites are in MN/Great Plaines, please let me know if you still cover that market or who does?
- 3 of the 6 sites ON HOLD, do have active ground leases in place. TowerNorth is seeking an anchor tenant.

One site that is "In Development" that I wanted to highlight is WI1040 Lake Kegonsa. This site is slated to be delivered Q12024. We found through our desktop analysis that T-Mobile could also benefit in coverage for the area. It's a popular fishing and recreation area that attracts tourist with a small downtown area as well as a large state park. (see picture attached).



From:	Elizabeth Erbes
Sent:	Thursday, July 13, 2023 6:18 PM
То:	Vandenberg, Brandi L
Cc:	Mary Caulfield; Liz Rutkowski; Bert Stern
Subject:	TowerNorth Site List July 2023 and Lake Kegonsa Highlight
Attachments:	TowerNorth Site List 7.13.23.xlsx; US Cellular - TowerNorth Lake Kegonsa WI1040.png

Hi Brandi,

I thought I would check in with you again and send you our latest site list as it's growing! Please see attached and below recap.

TowerNorth's existing portfolio in the Midwest Region consists of:

- 37 Existing towers built in the last 24 months. All anchored by Verizon Wireless.
- All sites have available structural capacity to add at least 2 additional wireless tenants.
- Many were built in areas that US Cell's coverage can improve today.
- 60 "In Development" BTS towers for Verizon that will be delivered in the next 12-24 months.
- 6 of the "In Development" are newer sites are in MN/Great Plaines, please let me know if you still cover that market or who does?
- 3 of the 6 sites ON HOLD, do have active ground leases in place. TowerNorth is seeking an anchor tenant.

One site that is "In Development" that I wanted to highlight is WI1040 Lake Kegonsa. This site is slated to be delivered Q12024. We found through our desktop analysis that US Cell could also benefit in coverage for the area. It's a popular fishing and recreation area that attracts tourist with a small downtown area as well as a large state park. (see picture attached).



From:	Elizabeth Erbes
Sent:	Thursday, July 13, 2023 6:37 PM
То:	Chris Craven
Cc:	Mary Caulfield; Liz Rutkowski; Bert Stern
Subject:	TowerNorth Site List July 2023 and Lake Kegonsa Highlight
Attachments:	Broadband One - TowerNorth Lake Kegonsa WI1040.png; TowerNorth Site List 7.13.23.A.xlsx

Hi Chris,

I thought I would check in with you again and send you our latest site list as it's growing! Please see attached and below recap.

TowerNorth's existing portfolio in the Midwest Region consists of:

- 37 Existing towers built in the last 24 months. All anchored by Verizon Wireless.
- All sites have available structural capacity to add at least 2 additional wireless tenants.
- 67 "In Development" BTS towers for Verizon that will be delivered in the next 12-24 months.
- 6 of the "In Development" are newer sites are in MN/Great Plaines
- Another 6 "In Development" are in TX/Gulf Coast/Houston area.
- 3 of the 6 sites ON HOLD, do have active ground leases in place. TowerNorth is seeking an anchor tenant.

One site that is "In Development" that I wanted to highlight is WI1040 Lake Kegonsa. This site is slated to be delivered Q12024. We found through our desktop analysis that Broadband One could also benefit in coverage for the area. It's a popular fishing and recreation area that attracts tourist with a small downtown area as well as a large state park. (see picture attached).



Liz Rutkowski

From:	Elizabeth Erbes
Sent:	Friday, June 2, 2023 1:35 PM
То:	Mike Johnson; scarney@team.nxlink.com
Subject:	TowerNorth Site List June 2023.2.xlsx
Attachments:	TowerNorth Site List June 2023.2.xlsx

Hi Mike and Sam,

Thank you for your time yesterday. I'm attaching our latest site list for your reference and review.

Please let me know if you have any trouble opening it as I downloaded it from our database and it sometimes gets corrupted.

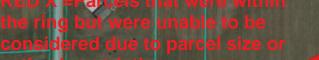
Anything else I can provide you with, please let me know.

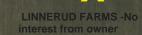
Thank you and have a nice weekend.



Liz Erbes Business Development Director Mobile: 773-575-7440 Email: eerbes@towernorth.com Liz Erbes

S:Status	S:Site Name	S:Search Ring ID	C:Candidate ID	C:Candidate Name	P:A:8000 Construction Comr.C:Latitude C:Longitude	C:Structure Type	C:Pole/Building Height (ft) C:A	MSL (ft) C:Address	C:City	C:State	C:Country	C:Zip
In Developmen	t Lake Kegonsa NB	<u>WI1040</u>	<u>WI1040-A</u>	Lake Kegonsa NB	42.95060600 -89.21820000	Self Support	180.00	1066.00 1896 Williams Drive	Stoughton	WI	<u>USA</u>	53589





CHRIST LUTHERAN CHURCH -No interest from owner

в

EHLE RANDALL & EHLE ROBERT -No interest from owner

Search Ring Center

NORSE VIEW HOLDINGS LLC

В

STOUGHTON ELECTRIC -No interest from owner

B

CARDING COL



SKJOLAAS DOUG & SKJOLAAS SUSAN -No interest from owner



June 12, 2023

Matson Airport-2WI6 Matson Developers, Inc. Po Box 333 Stoughton, WI 53589

RE: Dane County Communication Tower Ordinance – Section 10.103 / Notification to Nearby Airports / Telecommunications Tower Facility on Parcel #061129491404 / 1896 Williams Drive Stoughton, WI [Lake Kegonsa]

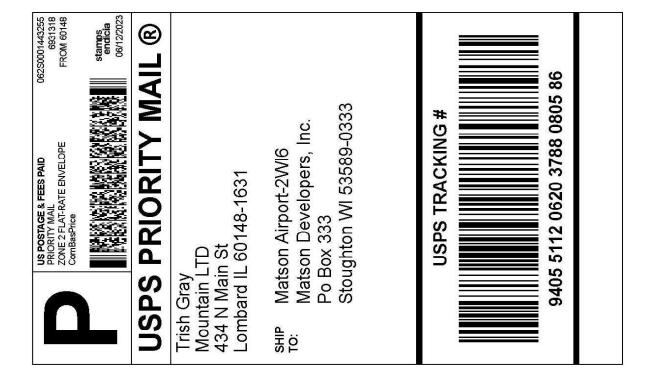
Dear Mr. Matson,

TowerNorth and Verizon have proposed a new telecommunications tower facility located at 1896 Williams Drive Stoughton, WI to improve its customer experience and address its network objective. This letter serves as notice to Matson Airport-2WI6, per Section 10.103 of the Dane County Communication Tower Ordinance.

If you have any questions regarding this request, please contact me directly at (630)746-5433 or pgray@mountainltd.com.

Sincerely,

Trish Gray Agent on Behalf of Verizon Wireless MOUNTAIN LTD.





June 12, 2023

Quale Airport Richard B. Quale 3114 North Star Road Cottage Grove, WI 53527

RE: Dane County Communication Tower Ordinance – Section 10.103 / Notification to Nearby Airports / Telecommunications Tower Facility on Parcel #061129491404 / 1896 Williams Drive Stoughton, WI [Lake Kegonsa]

Dear Mr. Quale,

TowerNorth and Verizon have proposed a new telecommunications tower facility located at 1896 Williams Drive Stoughton, WI to improve its customer experience and address its network objective. This letter serves as notice to Quale Airport, per Section 10.103 of the Dane County Communication Tower Ordinance.

If you have any questions regarding this request, please contact me directly at (630)746-5433 or <u>pgray@mountainltd.com</u>.

Sincerely,

Trish Gray Agent on Behalf of Verizon Wireless MOUNTAIN LTD.





June 12, 2023

Wisersky Airport David C. And Megan M. Wisersky 1458 Kaas Road Stoughton, WI 53589

RE: Dane County Communication Tower Ordinance – Section 10.103 / Notification to Nearby Airports / Telecommunications Tower Facility on Parcel #061129491404 / 1896 Williams Drive Stoughton, WI [Lake Kegonsa]

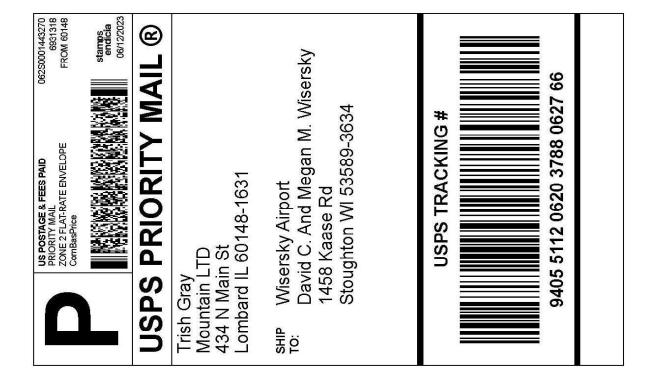
Dear Mr. & Mrs. Wisersky,

TowerNorth and Verizon have proposed a new telecommunications tower facility located at 1896 Williams Drive Stoughton, WI to improve its customer experience and address its network objective. This letter serves as notice to Wisersky Airport, per Section 10.103 of the Dane County Communication Tower Ordinance.

If you have any questions regarding this request, please contact me directly at (630)746-5433 or pgray@mountainltd.com.

Sincerely,

Trish Gray Agent on Behalf of Verizon Wireless MOUNTAIN LTD.





52 Farm View Drive, Suite 201

New Gloucester, ME 04260

December 14, 2023

Uff-Da Airport-2WI1

Donald Halverson

3671 Halverson Rd.

Stoughton, WI 53589

RE: Dane County Communication Tower Ordinance Section 10.103 / Notification to Nearby Airports / Telecommunications Tower Facility on Parcel #061129491404 / 1896 Williams Drive Stoughton, WI [Lake Kegonsa]

Dear Mr. Halverson,

TowerNorth and Verizon have proposed a new telecommunications tower facility located at 1896 Williams Drive Stoughton, WI to improve its customer experience and address its network objective. This letter serves as notice to Uff-Da Airport- 2WI1, per Section 10.103 of the Dane County Communication Tower Ordinance.

If you have any questions regarding this request, please contact me directly at (919)627-0770 or bwilliams@mountainltd.com.

Sincerely,

Ben Williams Agent on Behalf of Verizon Wireless MOUNTAIN LTD.