CONSTRUCT AND EQUIP THREE TELECOMMUNICATIONS TOWER SITES for the

ONEIDA NATION



Proposal due date: Monday, May 8, 2023 at 3 PM, Central Daylight Time

A non-mandatory pre-bid project briefing is scheduled for Monday, April 24 at 1:00 PM, Central Daylight Time. The meeting will be held online via Microsoft Teams at <u>Click here to join the meeting</u>. A short overview of the project will be provided, followed by an opportunity for voluntary questions and discussions. All substantive information that arises will also be published as an official addendum.

INVITATION FOR BID

Bid Opening Date: Monday, May 8, 2023 Bid Opening Time: 3 PM CDT

Construct and Equip Three Telecommunication Tower Sites

Contractors:

Enclosed is your copy of the bid invitation to <u>Construct and Equip Three Telecommunications Tower Sites</u> for the ONEIDA NATION. Your bids are due by <u>3 PM Central Daylight Time</u>, <u>May 8, 2023</u>. No late bids will be accepted, so please make sure to mail your bids early.

The bid packet contains the <u>Bid Instructions</u>, <u>Bid Response Form</u>, <u>Construction Bid Document</u>, <u>Attachments</u> (<u>A</u>) <u>Standard Construction Agreement</u>, <u>Attachment</u> (<u>B</u>) <u>Specifications</u>, <u>Attachment</u> (<u>C</u>) <u>Site Locations</u>, <u>Site Plans and Descriptions</u>, <u>Attachment</u> (<u>D</u>) <u>Indian Preference Law & Vendors</u>, <u>Attachment</u> (<u>E</u>), <u>Permit Fee Schedule</u>. Please review all material provided. Each section of information should be considered when determining your bid.

This project is subject to Indian Preference, Drug Free Workplace Act, and all other applicable federal regulations.

A Bid Bond in the amount of 5% of the bid will be required with your Bid Response Form.

A notice to proceed to the successful bidder will not be issued until all environmental approvals are secured by ONEIDA NATION.

A non-mandatory pre-bid project briefing is scheduled for Monday, April 24, 2023 at 1:00 pm, Central Daylight Time. The meeting will be held online via Microsoft Teams at <u>Click here to join the meeting</u>. A short overview of the project will be provided, followed by an opportunity for voluntary questions and discussions. All substantive information that arises will also be published as an official addendum.

All questions procedural or technical must be submitted in written form to the Single Point of Contact (SPOC) Adam Haas at adamhaas@rabbitcomm.com

Sincerely,

Jason Doxtator Manager of Network Services Oneida Nation

INSTRUCTIONS TO BIDDERS

GENERAL INSTRUCTIONS

A. Bid Procedure

(1) Bid Submission

Sealed bids will be received by Jason Doxtator, Manager of Network Services at the Oneida Skenandoah Complex, 909 Packerland Drive, Green Bay, WI. 54303 until 3 PM Prevailing Local Time, on Monday, May 8, 2023 for the purpose of: Furnishing and Installing Three Telecommunications Towers

Your bid submission should include (2) complete copies and one electronic copy. If sent by US Mail, the mailing address is PO Box 365, Oneida, WI 54155

Bids received after the date and time stated above will not be considered.

(2) Bid Response Procedures

The response must be made on the provided "Bid Response Form". The signature of the bidder supporting the bid must appear in the space provided on page four (4) of the "Invitation for Bid" and the completed bid must be submitted in its entirety. Any deviations from these conditions may be considered sufficient justification to reject the bid.

Bid forms must be filled out in ink or other permanent means. All erasures and corrections must be initialed in ink. Bids must be properly signed by an authorized representative.

Show the following on the bid envelope: (1) Bid Title, (2) Bid due date and (3) Name and address of bidder.

Telephone and Facsimile bids will not be accepted.

(3) Pre-Bid Conference

A non-mandatory pre-bid project briefing is scheduled for Monday, April 24, 2023 at 1 PM, Central Daylight Time. The meeting will be held online via Microsoft Teams at <u>Click here to join the meeting</u>. A short overview of the project will be provided, followed by an opportunity for voluntary questions and discussions. All substantive information that arises will also be published as an official addendum.

(4) Clarification of Specifications

Any clarifications to the specifications should be submitted in writing to the SPOC at adamhaas@rabbitcomm.com no later than: Friday, April 28, 2023.

It shall be the sole responsibility of the bidder to understand all of the provisions of the bid invitation and contract specifications.

(5) Clarification of Bid Responses

The Manager of Network Services reserves the right to obtain clarification of any point in the firm's bid or to obtain additional information necessary to properly evaluate a particular bid. Failure of a bidder to respond to such a request for additional information or clarifications may result in rejection of that firm's bid.

(6) Alteration of Bids

Bids may not be completed, amended or clarified on the face of the bid after the official bid opening.

(7) Time Bid Valid

All bids must be firm for 180 calendar days from the closing date of the bid.

(8) Bid Award

The contract will be awarded to the lowest **Responsible and Responsive bidder**.

(10) Indian Preference Law Requirements

Bidder must comply with the Oneida Nation Indian Preference Law described in Attachment D.

A bidder's responsiveness and responsibleness will be determined with considerations to Indian Preference requirement compliance.

Noncompliance with the Indian Preference requirement in the resulting contract may result in contract termination for default and debarment and suspension from future contracts.

THE RIGHT IS EXPRESSLY RESERVED TO REJECT ANY AND ALL BIDS.

The undersigned proposes to furnish the services or goods herein mentioned at the price indicated, all in accordance with the specifications and provisions as herein set forth, attached hereto and made a part hereof.

The undersigned bidder hereby represents as follows:

That this bid is made without connection with any person, firm or corporation making a bid for the same goods or services, and is in all respects fair and without collusion or fraud.

	Ву:
(Legal Name of Firm or Corporation)	(Signature of Authorized Bidder)
Address:	Title:
	Date:

BID RESPONSE FORM

CONSTRUCT AND EQUIP THREE TELECOMMUNICATIONS TOWER SITES

BID OPENING: 3:00 pm, CDT, on Monday, May 8, 2023

Construct and Equip Three Telecommunications Tower Sites as described in Attachment B Specifications and Attachment C Site Locations, Site Plans & Descriptions. Please itemize the costs below, with a separate line for labor and materials as follows:

180 foot Communications Tower (A)		
"Public Safety Tower" County Rd. E	Labor	\$
	Materials	\$
Radio Shelter		
	Labor	\$
	Materials	\$
Generator Set		
	Labor	\$
	Materials	\$
Site Development		
	Labor	\$
	Materials	\$
Road Improvements		
	Labor	\$
	Materials	\$
180 foot Communications Tower (B)		
"NW Tower" N7890 Cooper Rd	Labor	\$
•	Materials	\$
Radio Shelter		
	Labor	\$
	Materials	\$
Generator Set		
	Labor	\$
	Materials	\$
G1. 7		
Site Development		
	Labor	\$
	Materials	\$

150 foot Monopole Tower (C)		
"Skenandoah Tower" 909 Packer Land Dr.	Labor	\$
	Materials	\$
Radio Shelter		
	Labor	\$
	Materials	\$
Generator Set		
	Labor	\$
	Materials	\$
Site Development		
	Labor	\$
	Materials	\$
		<u> </u>

	TOTAL BID \$
LIST:	
Tower Manufacturer:	
	STANDARED WARRANTY PERIOD:
Generator Manufacturer:	STANDARED WARRANTY PERIOD:
Company Name:	By:
Address:	Title:
	Date:

CONSTRUCTION BID DOCUMENT

Construct and Equip Three Telecommunications Tower Sites

BACKGROUND AND OVERVIEW

This project is being untaken by the Oneida Nation. The Oneida Nation is a federally recognized Indian Nation and one of the original members of the Iroquois confederacy. The Oneida Tribe has maintained a homeland in the Northeastern corner of the state of Wisconsin since their 1820's migration. The Oneida reservation was established by treaty in 1838, it includes land located in two Northeastern Wisconsin counties, Brown and Outagamie, and covers an area of more than 65,000 acres, much of which has been checkerboarded through an allotment in the 1920's. The current makeup of the reservation includes more than 30,000 Tribally controlled acres of land.

The purpose of this project is the procurement and development of three new telecommunications towers and related facilities within the Oneida Nation reservation. (see Attachment C: Site Locations, Site Plans and Descriptions). Two lattice towers of 180 feet will be constructed as well as a monopole tower of 150 feet. The towers and related facilities will be constructed to a public safety grade, meaning that they are designed to remain fully functional in all-hazards environment, during and immediately following all emergency response operations. Further, the lattice towers will be designed to accommodate colocation by other telecommunications providers and must also be considered carrier/commercial grade. Respondents to this bid request are welcome to offer optional items to ensure that these objectives are met.

In addition to the acquisition and installation of the towers, the successful bidder is responsible for the procurement and installation of radio shelters, tower foundations, grounding systems, emergency power, security fencing, weed barrier fabric/rocking/landscaping and overall site development at the three locations listed in Attachment C.

PROJECT REQUIREMENTS

- **1.** Credentials.
 - a. Must have direct experience constructing towers of the type listed below in the specifications.
 - b. Must have certified tower climbers.
- 2. <u>Intent.</u> It is the intent of the specifications to describe the minimum requirements for the identified tower and equipment.
- **3.** <u>Brand Names.</u> Unless otherwise specifically indicated, articles have been identified in the bid by a "Brand Name" and model number, such reference is intended to be descriptive but not restrictive. It is

for the sole purpose of indicating to the prospective bidders a description of articles that will be satisfactory. Printed literature shall be included with the bid which will confirm that the equipment and/or material being bid fully complies with all of the provisions of this specification.

- **4.** <u>Minimum requirements.</u> The enclosed detailed Specifications shall be construed as **minimum.** Should manufactures' current published data or specifications exceed these, such standards shall be considered minimum and furnished. All parts, items or features not specifically mentioned in the scope of these specifications that are regularly furnished in order to provide a complete working unit shall be furnished.
- **5.** <u>Incidental Costs</u>. Bid price shall include delivery and installation costs and any other costs required to acquire and construct the tower and related facilities.
- **6.** Taxes. Tax exemption for the Oneida Nation:
 - a. Section IV subparagraph F.3.b of the State of Wisconsin Department of Revenue Publication 207 (10/00), titled Sales and Use Tax Information for Contractors (www.dor.state.wi.us/pubs/00pb207), indicates non-native American contractors may be exempt from Wisconsin State sales tax on certain construction materials delivered to the reservation for use in Tribal projects if Federal Preemption applies. Federal Preemption applies to the Oneida Reservation.
 - b. It is the Contractors responsibility to ascertain the applicability of this State publication to this Tribal project. Contractors who are uncertain as to what items are subject to tax, or who require further explanation or clarification, are requested to contact the Wisconsin Department of Revenue.
- 7. <u>Warranties.</u> Manufacturers or vendors shall furnish guarantees against faulty workmanship or materials for a minimum period of 12 months from the date of final inspection and shall correct any faulty workmanship or replace, parts and faulty materials during this period at no cost to <u>ONEIDA NATION</u> for labor or other associated costs.
 - a. All materials shall be guaranteed by the Bidder against mechanical, electrical and workmanship defects.
 - b. The warranty period shall commence with the date of acceptance of the tower installation and remain in effect for a minimum of one calendar year, except for routine expendable items.
- **8.** As-Builts. A complete set of as-built drawings shall be provided. (red lined or electronic)
- **9.** Standards.
 - a. Systems must be installed within the guidelines of NEC, (National Electric Code)
 - b. Materials and workmanship shall confirm to all codes, regulations and requirements for such equipment, specifications contained herein, and the normal use for which it is intended.
 - c. Materials shall be manufactured in accordance with the best commercial practices and standards for this type of application.
 - d. Materials used in the production of any equipment must be new.

- **10.** Bidder will furnish and install all materials, equipment and/or services necessary to perform contractual requirements of this project in accordance with the manufacture's recommendations and Specifications as listed below.
- 11. Bidder will adhere to the drawings included in Attachment C.

12. ALL WORK MUST BE COMPLETED WITHIN THE SPECIFICED TIMEFRAME:

- a. Within 60 days of Notice to Proceed (unless otherwise amended)
- 13. Bidder will be responsible for delivering all materials to the work-site, and any necessary storing.
- **14.** Bidder shall grade the tower sites/compound as necessary.
- **15.** At the option of ONEIDA NATION, Bidder shall perform ground system testing and / or augment the ground system with the addition of chemical ground rods as proposed.
- **16.** Bidder will adhere to all terms and conditions as set forth in the attached sample standard Construction Agreement (Attachment A). Insurance requirements and limits are addressed in document. **Any issues with the standard Construction Agreement must be raised by the bidder prior to bid submission.**
- **17.** Bidder will adhere to the site plan shown in Attachment C.
- **18.** All subcontractors are bound by the same terms and conditions as required by this contract.

1. <u>Division 0 & 1 – General Requirements</u>

- 1.1. All work shall conform to the Oneida Code of Laws, Chapter 603 Building Code and Chapter 605 Zoning and Shoreland Protection.
 - 1.1.1. The Oneida Building Code incorporates by reference the State of Wisconsin Commercial Building Codes and the Uniform Dwelling Code.
 - 1.1.2. Codes are available for download on the Oneida Nation website (https://oneidansn.gov/government/register/laws/).
- 1.2. Contractor shall obtain all required permits from the Oneida Zoning Department.
- 1.3. Contractor shall coordinate all utility disconnects and new utility connections as required. Cost of utility fees shall be included in contract cost.
- 1.4. All Contractors, regardless of tier, are subject to the Oneida Code of Laws, Chapter 502 Indian Preference in Contracting.

- 1.4.1. Codes are available for download on the Oneida Nation website (https://oneidansn.gov/government/register/laws/).
- 1.5. The awarded contractor is required to obtain an Oneida Vendor's License, prior to finalizing the contract for the work (if they do not currently hold a vendor's license). The annual fee for the license is due upon application; contact the Oneida Licensing Department at 920-496-5311.
 - 1.5.1. An Oneida Vendor's License is not required for submission of a bid.
- 1.6. Contractor shall provide a Gant chart schedule for the project and keep it current throughout the duration of the project.

RESPONSIBILITIES OF ONEIDA NATION

ONEIDA NATION will provide Bidder reasonable access to the work site, according to ONEIDA NATION' normal notification process.

ONEIDA NATION will provide general inspection oversight of the project; such oversight will not relieve bidder of any of their contractual obligations.

ONEIDA NATION will consider progress payments for delivery of goods or completion of work to the successful bidder based on negotiated payment terms in the contract. Deposits and down payments are not an option.

ONEIDA NATION will provide a geotechnical engineering evaluation reports for the three tower sites for use as background information for the footing/foundation design of the tower. The reports will be distributed at the non-mandatory pre-bid briefing. Bidder assumes full responsibility for the design and implementation of the tower footings/foundation, irrespective of the information provided in the geotechnical engineering evaluation reports.

SUMBITTALS

EXPERIENCE: (to be used in determining responsibleness)

The Bidder shall provide evidence of the qualifications for completing the work proposed:

- 1. Qualifications
 - a. Bidder must hold all required credentials, licenses and certifications including but not limited to, a CCB Contractor License.

2. References

- a. Bidder shall provide references for last three projects completed of similar size and scope, including completion dates and project cost.
- b. Bidder shall provide names and phone numbers of the contact person for each reference.

3. Expertise and Staff Experience

- a. Bidder shall identify past projects that are similar in nature.
- b. Bidder shall have a minimum of 10 years of experience on similar projects.

4. Required information

- a. Bidder must provide a work plan with complete description of the proposed work:
 - i. Tower, radio shelter and generator procurement
 - ii. Site development
 - iii. Installation
 - iv. Work schedule
 - v. How Indian Preference requirements will be complied with.
 - 1. Subcontractors
 - 2. Laborers
 - 3. Trainees
 - vi. <u>Bidder must specify the tower manufacturer, model / series and warranty period.</u> <u>Bidder must use one of the 2 approved tower manufacturers: 1. Valmont/Mircroflect; 2. Sabre</u>

ATTACHMENTS

Attachment A: Standard Construction Agreement

Attachment B: **Specifications**

Attachment C: Site Locations, Site Plans and Descriptions

Attachment D: Indian Preference Law & Vendors

Attachment E: Permit Fee Schedule

Attachment A: Standard Construction Agreement Construction, Installation, Repair or Remodel Project

This Agreement is entered into by and between the Oneida Nation, whose mailing address is P.O. Box 365, Oneida, Wisconsin, 54155, and

Name:
Address:
Federal ID Number:
Vendor Number:
Project Title:
Project Number (if any):
Agreement Amount:

hereinafter referred to as "Contractor", who hereby mutually agrees as follows:

- 1. **Definitions.** All words and phrases contained herein shall have the meaning consistent with the *Architect's Handbook of Professional Practice* (Ed. 1996), and the *Glossary of Construction Industry Terms*, unless otherwise defined in this Agreement.
- **2. Term.** The Term of this Agreement is from Start Date to End Date, and shall be effective upon the signing of both parties.
- 3. Commencement of Work. No work may be commenced and no materials may be ordered under this Agreement until all parties have signed this Agreement, all appropriate approvals have been obtained, and a Purchase Order has been issued. Upon the issuance of the Purchase Order, the Nation will issue a Notice to Proceed to Contractor. Upon receiving a Notice to Proceed, Contractor may commence work under this Agreement. If Contractor orders any materials or supplies prior to receiving a Notice to Proceed, Contractor agrees that it is responsible for all costs related to said materials and supplies until all conditions of this Section have been satisfied.
- 4. Compensation and Payment. The Oneida Nation shall pay Contractor for the timely and satisfactory performance of the work under this Agreement the sum set forth herein ("Contract Sum") specified in Exhibit A, which shall be attached hereto and incorporated by reference. Multiple and partial payments shall be provided for in Exhibit A. All amounts payable by the Oneida Nation to Contractor under this Agreement shall be payable within thirty (30) days of the Oneida Nation's receipt of Contractor's invoice subject, however, to Contractor's complete and proper performance and delivery of all services and deliverables that are the subject of the invoice. The Oneida Nation reserves the right to withhold payment based upon reasonable objection which shall be documented.

5. Scope of Work.

- **a.** Contractor shall perform all of the work necessary for the construction, installation, and completion of the project, which is described in Exhibit A. Any and all specifications, drawings, and other documents that may be attached hereto are incorporated by reference (collectively "Agreement documents").
- b. Contractor agrees to provide and be responsible for all necessary equipment and tools (collectively "Equipment") required for the performance of work under this Agreement. If it is determined that Contractor will use Oneida Nation's Equipment for any reason, such Equipment shall be identified and specified in a separate document attached to this Agreement and incorporated by reference herein. Where Contractor uses Gaming Facilities Lift Equipment, Contractor shall contact the Gaming Facilities Department and complete a Lift Request Form and Lift Equipment/Operator Inspection Check List. Both forms shall be attached hereto and incorporated by reference herein, with a copy to be provided to the Gaming Facilities Department for record keeping purposes.
- c. Contractor agrees that only its employees shall use Oneida Nation's Equipment for any work performed under this Agreement. In Contractor's use of Oneida Nation's Equipment, Contractor warrants and represents that any of its employees who use and operate Oneida Nation's Equipment are properly trained and certified/licensed to use such Equipment. Contractor also warrants and represents that it has sufficient Contractor liability coverage, consistent with the provisions of Section 14, to cover any claims for damages to Gaming Facilities Department Lift Equipment arising from work performed under this Agreement.
- **d.** Where Contractor uses Oneida Nation's Equipment for the performance of work under this Agreement, then Contractor agrees to indemnify and hold Oneida Nation harmless from and against any and all claims for any injuries to Contractor's employees or subcontractor's employees, and any losses or damages to Contractor's property or subcontractor's property.
- **6. Project Schedule.** Contractor shall perform the work under this Agreement in accordance with a Project Schedule submitted to the Oneida Nation, unless determined otherwise between the parties. Where a Project Schedule is submitted, such Project Schedule shall be attached hereto and incorporated by reference, and shall be reviewed at appropriate intervals as determined between the parties. The Project Schedule may be revised as determined between the parties.

7. Changes in the Work.

- **a.** The Oneida Nation may at any time issue a written Change Order and Contractor may at any time request a written Change Order. Any Change Order shall describe the extent or scope of the work changes covered under this Agreement, changes to any drawings, specifications or other description herein, or to change the time of completion. Such Change Order shall be effective upon signature of both parties and Contractor will promptly comply.
- **b.** Upon receipt of a written Change Order, Contractor shall promptly advise the Oneida Nation if the change will affect its cost of work performed under this Agreement. If Contractor anticipates additional costs as a result of the Change Order, Contractor shall provide to the Oneida Nation: 1) a breakdown of estimated costs and changes in the Agreement Sum; and, 2) a written statement of necessary changes in the time of completion.

8. Events of Defaults; Stop Work Orders.

- **a.** Contractor shall pay costs of work as they are incurred. If Contractor fails to pay any costs as they are incurred, Oneida Nation reserves the right to pay such costs directly, and with written notice to Contractor, shall deduct such costs from the Agreement Sum.
- **b.** If Contractor is deficient in performing work under this Agreement, or any materials do not meet specifications, the Oneida Nation shall notify Contractor in writing to remedy the deficiency within ten (10) business days. If Contractor fails to remedy such deficiency within ten (10) business days, the Oneida Nation shall be entitled to remedy such deficiency and may deduct any cost incurred from the Agreement Sum.

- c. If Contractor fails to correct any defective or nonconforming work, or repair or replace any defective materials, or otherwise fails to carry out work as required by the Agreement documents within ten (10) business days as provided in Section 8(b) above, the Oneida Nation reserves the right to issue a written Stop Work Order to Contractor. If a written Stop Work Order is issued, Contractor shall be excused from proceeding with the work so long as such Stop Work Order remains in effect. The Oneida Nation shall notify Contractor in writing when work may be resumed under this Agreement.
- **d.** If Contractor is in substantial and material non-compliance with this Agreement, the Oneida Nation reserves the right to immediately issue a written Stop Work Order to Contractor. Contractor shall be provided reasonable opportunity to come into compliance with this Agreement, at which time the Oneida Nation shall notify Contractor in writing when work may be resumed under this Agreement.
- 9. Independent Contractor. The Contractor warrants and represents that it carries the appropriate workers compensation policy coverage, consistent with the Oneida Nation's Insurance Requirements, and that no persons employed or performing under the terms of this Agreement are excluded under that coverage. Further, the Contractor agrees to and shall indemnify and hold the Oneida Nation harmless against and from any and all loss, damages or costs incurred for any workers compensation claims including, but not limited to, attorneys' fees. The Contractor shall be responsible for all withholding and any other employment taxes due to any taxing authority.

10. Employees of Contractor.

- a. Contractor agrees that all of its officers, employees, agents, directors, and representatives shall not be deemed or construed to be an employee of the Oneida Nation. Contractor further agrees that it and all of its employees waive any and all rights to the Oneida Nation's benefit plans, including but not limited to 401(k), or life or medical insurance plans. Contractor further agrees that it shall not use, or cause to be used, any of Oneida Nation's employees in the course of any work performed under this Agreement.
- **b.** Contractor shall have a qualified Project Manager on the Project site at all times during the Project while work is being performed. 1The Oneida Nation shall have the right to review the qualifications of Contractor's Project Manager, including by personal interview, and reject the Project Manager at Oneida Nation's discretion. Contractor will not be entitled to additional compensation for replacing Project Manager. 2Contractor shall not change the Project Manager during the course of the Project without the prior written approval of the Oneida Nation.

11. Materials and Documents; Non-Disclosure.

- **a.** Unless otherwise specified, all materials shall be new and shall meet specifications. Both materials and workmanship shall be of good quality. Upon reasonable request of the Oneida Nation, Contractor shall provide samples or other satisfactory evidence as to the kind and quality of materials to be used in the performance of the work under this Agreement, and shall be documented in writing. All materials furnished by Contractor shall be in accordance with approved samples. Any substitutions require prior written approval by the Oneida Nation consistent with Section 7 above.
- **b.** All plans and specifications prepared by Contractor shall be submitted to the Oneida Nation for written approval before procurement of materials or commencement of work under this Agreement. Contractor will provide copies of all plans and specifications to the Oneida Nation before commencement of work.
- c. <u>Unless provided otherwise</u>, all designs, plans, specifications, improvements, inventions, and rights developed by Contractor in the course of performing work under this Agreement will be disclosed to the Oneida Nation and will become the exclusive property of the Oneida Nation. Contractor hereby assigns all rights, title and interest to the Oneida Nation and ownership shall vest in the Oneida Nation. However, where Contractor possesses intellectual property rights or other proprietary rights in any documents or materials used in the

performance of this Agreement, such intellectual property and proprietary rights shall be described and identified in a separate written document, which shall be attached hereto and incorporated by reference. The Oneida Nation agrees that where Contractor may use documents and/or materials that are licensed by third parties, contractor shall not be caused to violate any existing agreements in place with such third parties.

- **d.** Contractor will provide to the Oneida Nation all drawings, specifications, electronic media (CAD files), or other documents, whether tracings or originals, which will remain the property of the Oneida Nation. Contractor will not copy or otherwise reproduce any drawings, specifications or documents, except as required during the performance of this Agreement. Any and all reproductions will be returned to the Oneida Nation upon completion or termination of this Agreement.
- **e.** Any information and documents provided to Contractor by the Oneida Nation for purposes of this Agreement shall be treated as confidential and proprietary, and subject to non-disclosure. Any Confidential Information provided to subcontractors shall be on a need to know basis and subject to non-disclosure.

12. Use of Premises.

- **a.** The Oneida Nation and Contractor shall agree in writing upon a designated storage area for Contractor's equipment and materials during performance of this Agreement. If designated storage area is contained, Contractor shall provide appropriate signage as to warnings and safety precautions, unless agreed otherwise between the parties. If Contractor will require additional storage area, or a relocation of storage area, on the Oneida Nation's premises, such changes will be made in writing and approved by the Oneida Nation before moving any equipment and materials to such area.
- **b.** Contractor will perform all work under this Agreement during the hours designated by the Oneida Nation and in such a manner to reasonably avoid inconvenience to the Oneida Nation and not interfere with business operations. Contractor will properly supervise all work performed under this Agreement, and will require all its employees to comply with all applicable rules and regulations. Contractor will take precautions to protect work, property and persons under a reasonable standard of care. Contractor will perform all work in a professional, safe, and workman like manner, in accordance with applicable industry standards, and with due regard to ethical business practices.

13. Indemnification.

- **a.** Contractor shall indemnify and hold harmless the Oneida Nation, its officers, employees, agents, directors, and representatives, in the course of performance of the Contractor's work under this Agreement, from and against any and all claims, of whatever nature, for injuries or losses, or damages arising out of Contractor's or subcontractors negligence, gross negligence, or intentional misconduct, including but not limited to Contractor's breach of this agreement, or the negligence, gross negligence or intentional misconduct of Contractor's or subcontractors officers, employees, agents, directors, and representatives.
- **b.** The Oneida Nation shall indemnify and hold harmless Contractor, its officers, employees, agents, directors, and representatives, from and against any and all claims, of whatever nature, for injuries or losses, or damages arising out of the Oneida Nation's negligence, gross negligence, or intentional misconduct, or the negligence, gross negligence or intentional misconduct of the Oneida Nation's officers, employees, agents, directors, and representatives.

14. Insurance Requirements.

a. Contractor, at its expense, and as a condition of this Agreement, will obtain and maintain sufficient Contractor liability coverage, consistent with the Oneida Nation's Insurance Requirements, to cover any claims for damages, including personal injury and/or death, which may arise from the performance of work under this Agreement. Contractor shall name the Oneida Nation as Additional Insured prior to any work commencing and shall provide documentation verifying the same for a period of one year following substantial completion.

Contractor shall provide Certificate of Insurance complying with the coverage limits of the Oneida Nation, which shall be filed directly with Oneida Nation's Risk Management Department.

- **b.** Certificates of Insurance may be subject to the Oneida Nation's Risk Management Department approval for sufficiency of adequate coverage at any time upon reasonable written notice to Contractor. Contractor will provide the Oneida Nation's Risk Management Department at least thirty (30) days advance written notice in the event of cancellation, termination, or material modification of the coverage. Contractor is responsible for obtaining insurance covering their tools, equipment, and materials which are not destined to be incorporated into the final project.
- c. Where Contractor fails to be in compliance with any provisions of this Section, the Oneida Nation reserves the right to immediately issue a written Stop Work Order to Contractor consistent with Section 8(d) above. Contractor shall be provided reasonable opportunity to come into compliance with the provisions of this Section, at which time the Oneida Nation shall notify Contractor in writing when work may be resumed under this Agreement. If Contractor is unable to meet the requirements of this Section, the Oneida Nation reserves the right to terminate this contract.

15. Licensing, Permits, and Regulatory/Statutory Requirements.

- **a.** Contractor is required to obtain an Oneida Vendor's License from the Oneida Nation's Licensing Department.
- **b.** Contractor warrants and represents that its employees and all subcontractors shall comply with all applicable laws, rules and regulations for licensing and training as to trade and industry, and that said employees and subcontractors shall maintain licensing requirements for the Term of this Agreement. The Oneida Nation shall have the right to review the license qualifications of Contractor's employees and subcontractors, and to reject any of Contractor's employees or subcontractors at its discretion for non-compliance.
- c. If required by applicable laws, rules or regulations, Contractor agrees to obtain all necessary permits from the appropriate licensing authorities and provide all notices required for the performance of this Agreement prior to commencing any work. The Oneida Nation shall have the right to review all permit applications and permits obtained by Contractor for the performance of this Agreement upon request. If Contractor and its employees, or any of its subcontractors, performs any work contrary to applicable laws, rules and regulations, Contractor will be responsible for any costs as a result of non-compliance. If Contractor is unable to obtain the necessary licenses and/or permits required for the performance of this Agreement, the Oneida Nation reserves the right to obtain any necessary licenses and/or permits and deduct those costs from the Sum, and Contractor may proceed with work under this Agreement.
- **d.** Where applicable, Contractor shall make arrangements for public and private locates prior to commencing any work, and shall notify the Oneida Nation of completion of locates with appropriate confirmation numbers on a regular and periodic basis until work is completed. Contractor will be responsible for maintaining documentation of appropriate confirmation numbers, and shall provide such documentation upon the Oneida Nation's request.
- e. Contractor agrees to the provisions of the Oneida Indian Preference Law, agrees that compliance is a condition of this Agreement, and agrees that such provisions shall govern the performance of the Contractor under this Agreement. Where Contractor is an Indian Preference Contractor, as established under Indian Preference guidelines and criteria, any insurance requirements established by the Indian Preference Department shall apply to Indian Preference Contractors performing work under this Agreement. The Indian Preference Department shall have all rights of enforcement as provided under the Oneida Indian Preference Law and subsection (f) below.
- **f.** Where Contractor fails to be in compliance with any provisions of this Section, the Oneida Nation reserves the right to immediately issue a written Stop Work Order to Contractor consistent with Section 8(d) above. Contractor shall be provided reasonable opportunity to come into compliance with the provisions of this

Section, at which time the Oneida Nation shall notify Contractor in writing when work may be resumed under this Agreement. If Contractor is unable to meet the requirements of any provisions of this Section, the Oneida Nation reserves the right to terminate this contract.

- 16. Waste Management and Recycling. The Contractor shall employ processes that ensure the generation of as little waste as possible due to error, poor planning, breakage, mishandling, contamination, or other factors. Contractor shall minimize trash/waste disposal in landfills; reuse, salvage, or recycle as much waste as economically feasible. Contractor shall separate, store, protect, and handle at the site recyclable waste products in order to prevent contamination of materials and to maximize recyclability of materials. Contractor shall arrange for timely pickups from the site or deliveries to recycling facility in order to prevent contamination of recyclable materials. Contractor shall comply with applicable regulatory requirements, including but not limited to Federal, State and local requirements, pertaining to legal disposal of all construction and demolition waste materials. The following may not be disposed of in landfills or by incineration and shall be recycled, salvaged, or reused:
 - **a.** Aluminum and plastic containers.
 - **b.** Corrugated cardboard.
 - **c.** Wood pallets.
 - **d.** Clean dimensional wood.
 - **e.** Metals, including packaging banding, metal studs, sheet metal, structural steel, piping, reinforcing bars, door frames, and other items made of steel, iron, galvanized steel, stainless steel, aluminum, copper, zinc, lead, brass and bronze.
- 17. Contractor Guarantee. Contractor guarantees to the Oneida Nation that all work performed under this Agreement shall be free from all defects of any kind, nature or description on the date of completion and for a period of one year thereafter. During the period of one year after completion, Contractor agrees to repair/replace any defective work and/or materials at Contractor's expense. Consistent with the statute of limitations, latent defects shall survive the warranty period and Contractor shall be responsible for cure of such defects.

18. Subcontracts.

- **a.** Contractor shall not subcontract any work under this Agreement without the express written consent of the Oneida Nation. If Contractor enters into subcontracts with the Oneida Nation's written consent, Contractor agrees to obtain the contract of any and all subcontractors to be materially and substantially bound by the terms and conditions set forth herein, unless otherwise agreed to by the Oneida Nation in writing. Upon reasonable written request, all subcontractor contracts shall be furnished to the Oneida Nation. This Agreement shall be attached and incorporated into all subcontractor agreements.
- **b.** Contractor is responsible for subcontractor compliance with all insurance requirements set forth in this Agreement. In the event of subcontractor non-compliance, such subcontractor work will not proceed under this Agreement until subcontractor is materially and substantially in compliance with the terms and conditions of this Agreement, unless otherwise agreed to by the Oneida Nation in writing.
- 19. Separate Agreements. The Oneida Nation has the right to execute other agreements in connection with the work performed under this Agreement, upon reasonable notice to Contractor. If other Agreements are executed in connection with the work performed under this Agreement, then the Oneida Nation shall coordinate all work between Contractor and other contractors. Contractor and other contractors shall exercise good faith efforts to perform all work under this Agreement.

- **20. Third Party Warranties.** Contractor grants to the Oneida Nation any and all warranties which may exist in favor of Contractor from third party suppliers used by Contractor in performing services under this Agreement, and such warranties shall specify the period of time covered by manufacturer.
- **21. Force Majeure**. If Contractor is delayed in the performance of or completion of the work under this Agreement by labor strikes, lock-outs, unavoidable casualties, or other causes beyond the control of the Contractor and without its fault or negligence, then the time for the performance or completion of said work may be extended for a reasonable period by written agreement between the parties.

22. Dispute Resolution.

- **a.** In the case of any dispute or claim arising out of or relating to this Agreement, or with respect to a breach thereof, the parties first shall seek to resolve such matter amicably through discussions between the parties, then, if necessary, by nonbinding mediation.
- **b.** Disputes, claims, or questions arising from the performance of this Agreement shall be submitted in writing by the initiating party to the receiving party. The receiving party shall render a written response with a reasonable period of time. Upon receipt of the written response, the parties' representative shall meet at a mutually agreeable location to negotiate a settlement between them.
- c. Any dispute, claim or other matter in question between the parties shall be subject to mediation upon the written request of either party. However, no demand for mediation of any such dispute, claim or other matter may be made until the earlier of (1) the date on which the receiving party has rendered a written response, or (2) the 10th (tenth) day after the initiating party has presented its documentation to the receiving party or has been given a reasonable opportunity to do so, if the receiving party has not provided a written response by that date.
- **d.** The parties recognize that mediation proceedings are settlement negotiations, and that all offers, promises, conduct and statements, whether written or oral, made in the course of the proceedings, are inadmissible in any court proceeding, to the extent allowed by applicable law. The parties agree to not subpoena or otherwise require the mediator to testify or produce records, notes or work product in any future proceedings, and not recording or written record will be made during any mediation session(s). Evidence that is otherwise admissible or discoverable shall not be rendered inadmissible or non-discoverable as a result of its use in the mediation process. Information disclosed to the mediator in a private caucus shall remain confidential unless the parties authorize disclosure.
- **e.** Upon demand for mediation, the parties shall select a mutually acceptable person or persons to serve as mediator. The mediator will not have any financial or personal interest in the outcome of the mediation and must disclose any circumstances which create a presumption of bias or cause delay in the mediation process.
- **f.** All mediation proceedings shall take place at neutral location unless the parties agree otherwise. The parties will equally share the cost of the mediator. The parties will be responsible for their own reasonable costs related to a mediation proceeding.

23. Termination.

a. Notwithstanding the provisions in Section 14 and 15, if Contractor should fail to make satisfactory progress toward the completion of work under this Agreement, or should fail to make prompt payment for any materials, or to make payment to any subcontractors or labor, or should fail to comply with any applicable laws, rules or regulations, or otherwise violate any other provisions of this Agreement, then the Oneida Nation may immediately terminate this Agreement in part or in whole with written notice to Contractor. In the event of termination, the Oneida Nation may have the work completed by another contractor and may deduct the cost of completing the work from Contractor's Agreement Sum, and Contractor shall not have any further obligations to perform any work under this agreement. All warranties and indemnification shall survive this agreement.

b. Notwithstanding the provisions contained in this section, Oneida Nation shall otherwise have the right to terminate this Agreement with at least ten (10) business days' written notice to Contractor. The Oneida Nation shall then pay Contractor a proportionate amount of the Agreement Sum for the work completed, and Contractor shall not have any further obligations for any work performed under this Agreement.

24. Other Terms and Conditions; Miscellaneous.

- **a.** The failure to insist upon performance of any term or condition of this Agreement, or to exercise any right or remedy shall not constitute a waiver of such term or condition. The waiver of any breach of any provision of this Agreement shall not be deemed a continuing waiver, and no delay in exercise of a right shall constitute a waiver.
- **b.** This Agreement shall be construed and interpreted in accordance with the laws of the project location, without giving effect to any conflicts or choice of law principles. Any rule of construction that a document is to be construed against the drafting party shall not apply.
- **c.** Nothing in this Agreement or attachments shall constitute or be construed as a waiver, express or implied, of the sovereign immunity of the Oneida Nation.
- **d.** Nothing in this Agreement shall be construed to create a partnership or joint venture between the Oneida Nation and Contractor.
- **e.** Contractor may not assign its rights and interests in this agreement without the Oneida Nation's express written consent. Any violation of this provision will be cause for immediate termination of this Agreement.
- **f.** The section headings contained herein are for convenience of reference only and are not intended to define, limit, or describe the scope or intent of any provision of this Agreement. The section headings shall not be used in interpreting this agreement.
- **g.** This Agreement may be executed in any number of counterparts, each of which shall be deemed to be an original and which shall together constitute one and the same Agreement.
- **h.** This Agreement and any attachments hereto constitute the entire understanding and agreement between the parties. No modifications or amendments to this Agreement shall be binding unless made in writing between the parties.
 - i. The invalidity of any part of this Agreement shall not affect the remaining parts hereof.
- **j.** In the event of any inconsistency or conflict between the Terms and Conditions of this Agreement and any attachments hereto, and any other terms and conditions not contained in this Agreement, this Agreement shall control.
- 25. Notices. All notices required by this Agreement will be in writing and sent in any commercially reasonable manner, including certified mail, return receipt requested, facsimile, or any other customary means of communication to the other party's representative at the applicable mailing address set forth below. Notices to the Oneida Nation shall be sent to the attention of person named below. Notices to Contractor shall be sent to the attention of the person named below. The effective date of any Notice shall be the date of personal service or three days after mailing. Any notice given otherwise than in accordance with this Article shall be deemed ineffective. Either party may change representative or address by written notice to the other party.

ONEIDA NATION: CONTRACTOR:

Oneida Nation - Engineering Dept.

Attn: Attn:

Engineering Director / Senior Architect Construction Manager

IN WITNESS WHEREOF, Oneida Nation and Co	ontractor have executed this Agreement on the date below.
ONEIDA NATION:	CONTRACTOR:
By:	By:
Engineering Director / Senior Architect Construction Manager	
Data.	D-4

Attachment A (Continued) Oneida Nation Exhibit A to Standard Construction Agreement

Compensation and Payment

1. The Contract Sum is:

a.	Per Scope of Work:	\$ 0.00
b.	???:	\$ 0.00
c.	Total:	\$ 0.00

- 2. Payments on account of services rendered shall be made monthly upon presentation of the Contractor's statement of services (schedule of values) in a format similar to AIA Documents G742 and G743.
 - a. For each progress payment made prior to Substantial Completion of the Work, the Oneida Nation will withhold five percent (5%), as retainage, from the payment otherwise due.
- 3. See Exhibit D ??? Bid (Quote) Dated: ??, consisting of ?? pages.

Scope of Work

- 4. The Scope of Work shall be (incorporated herein by reference):
 - a. Defined in the ct title>, #xx-xxx Project Manual, dated ??, as prepared by the Oneida Nation —
 Engineering Department, consisting of ?? pages.
 - b. Include Addendum #1, dated ??, consisting of ?? pages.
 - c. Include Addendum #2, dated ??, consisting of ?? pages.
 - d. Voluntary Alternate: ?? is added to the scope of work.

Or

- 5. See Exhibit D ??? Bid (Quote) Dated: ??, consisting of ?? pages
- 6. The design professionals and consultants engaged by the Contractor are as follows:

a. Architectural: ?b. Civil: n/ac. Structural: ?

d. Fire Protection: ? – Design-Build
e. Plumbing: ? – Design-Build
f. HVAC: ? – Design-Build
g. Electrical: ? – Design-Build

Schedule of Exhibits

- 7. Exhibit A This page.
- 8. Exhibit B Insurance Requirements:

Oneida Nation Exhibit B Insurance Requirements

CONTRACTOR INSURANCE

- B.1. The Owner's requirements for insurance coverage are denoted below.
- B.2. Indemnification, defense, protection and hold harmless shall exceed/survive all insurance available to Owner.
- B.3. Insurance provided to satisfy the terms of this agreement shall be on a primary and non-contributory basis and include a waiver of subrogation in favor of the Owner. Insurance shall extend until the State Statue of Repose.
- B.4. Contractor shall deliver to the Owner, certificates of insurance, and other evidence of insurance as requested, which Contractor is required to purchase and maintain. Such certificates of insurance shall include waivers of subrogation and denote Contractor's insurance is on a primary and non-contributory basis.
 - B.4.1. Certificates verifying the required coverages shall be provided to the Owner prior to the Work being initiated.
- B.5. The insurance shall be written for not less than the following:
 - B.5.1. Workers' Compensation:

B.5.1.1.	State	Statutory
B.5.1.2.	Applicable Federal (E.g., Longshoreman's)	Statutory
B.5.1.3.	Employer's Liability	\$ 100,000/500,000/100,000

B.5.2. Comprehensive General Liability (including Premises-Operations; Protective; Products and completed Operations: Broad Form Property Damage; Contractual Liability Insurance):

B.5.2.1.	General Aggregate	\$2,000,000
B.5.2.2.	Products Completed Aggregate	\$2,000,000
B.5.2.3.	Each Occurrence	\$1,000,000
B.5.2.4.	Personal Injury	\$1,000,000

- B.5.2.5. Additional insured endorsement form CG2010, CG2037 or their equivalent must be submitted with each project.
- B.5.3. Property Damage Liability Insurance shall include coverage for hazards X (explosion), C (collapse) and/or U (underground) as applicable.
- B.5.4. Products and Completed Operations Insurance shall be maintained for one (1) year after Final Payment.
- B.5.5. Umbrella Excess Liability \$5,000,000

CONSULTANT/CONTRACTOR CONFLICT OF INTEREST DISCLOSURE FORM

I,	Name of Individual signing Disclosure	Form	, on behalf of
	Name of Business, if a	•	
National confliction its enter	contractor"), declare this to be a full and complete disclosur. Conflict of interest means any interest, whether it be pets with any right of the Oneida Nation to property, informarprises, free from undisclosed competition or other vious, I affirm to the best of my knowledge the following:	rsonal, financial, poli nation, or any other ri	tical, or otherwise, that ght to own and operate
1.	The Contractor <u>is not</u> an employee of the Oneid if employee of the Oneida Nation.)	a Nation. (Must inclu	de job description
2.	The Contractor is neither presently involved in, nor is it Oneida Nation.	contemplating any l	egal actions against the
3.	The Contractor is not presently involved in any activity suggest a potential conflict with the Oneida Nation.	or has any outside i	nterests that conflict or
4.	The Contractor is neither involved in nor does it own are or connected with the Oneida Nation, its programs, depart		
5.	Neither the Contractor, nor any of its representatives, any public or private groups, firms, organizations, or oth owned by the Oneida Nation. No representative of the committee of the Oneida Nation. No officer or director above	ner entities which are contractor sits on any	substantially or wholly board, commission, or
6.	The Contractor is neither applying for, nor receiving, programs provided by the Oneida Nation, and has no except as herein disclosed and listed below:		
	If NONE, please check	\boxtimes	
	Enter disclosures, if any		
	(Attach additional pages, i	if necessary)	
involve I am in	the term of the contract or any extension thereof, I will so suggest or appear to suggest any conflict that I may have afformed and understand that the Oneida Nation may in a obligation to me. Further, failure to report any conflict	e with the Oneida Nat its sole discretion,	ion. If a conflict arises, terminate the contract

Attachment B: Specifications

180 FT. LATTICE TOWER (2X)

Height of each self-supporting tower will be 180 feet. The tower will not require aeronautical lighting or paint. The tower will be provided with a vertical cable ladder, cable ice bridge, climbing ladder with anti-climb cover, mobile and parabolic antenna mounts, and lightning rod assembly. Bidder will also provide:

- 1. The assembly and erection of the self-supporting tower and associated equipment and materials listed in above paragraph.
- 2. A climbing ladder and anti-fall device and shall provide two (1) full body climbing harness (per tower). Climbing ladder and safety climb system must meet EIA-222-H requirements.
- 3. The vertical ground conductor (No 2 AWG Cu) extending from the top-mounted lightning rod assembly down to ground level, bonded to ground bars to be mounted at 50-foot intervals. This conductor shall be bonded to the site ground system.
- 4. The exothermic molecular (Cadweld) bonding of the tower ground system to the tower legs, climbing ladder, vertical waveguide ladder, waveguide bridge support pipes, and two 24" ground bus bars (inside and outside the cable entrance window of the shelter).

Bidder is responsible for the design and construction of the tower and tower foundation. The tower foundation is to be designed for the total tower load that includes the antenna and transmission line loads listed below. The foundation design is to take into account the ultimate tower load specified above, as well as the soils report that will be distributed at the pre-bid conference.

Regardless of mode of transportation or F.O.B. designation, shipping and delivery costs shall be prepaid by the Bidder. The Bidder shall be responsible and accountable for the safe delivery of all goods to ONEIDA NATION.

Bidder shall furnish all transportation, handling, storage of materials, labor, tools, implements, machinery, supplies, materials, water, heat, utilities and incidentals, and shall do what is necessary to perform and complete the work.

Bidder shall ensure daily and at the completion of the installation that the working area is in order and clean. Bidder is responsible for securing the safety and security of all equipment and supplies left at the job site.

Bidder shall remove and properly dispose of all packing materials, shipping crates, concrete form work materials, and excess installation materials and hardware.

Bidder shall submit to ONEIDA NATION as soon as they are available from the tower vender, a complete set of the comprehensive tower and waveguide bridge drawings and the tower foundation design and construction notes.

The bidder must have at least ten (10) years' experience in the construction of telecommunications sites and towers.

ONEIDA NATION will review shop drawings and the tower engineering packet. The contractor shall submit the tower engineer's permitting package to ONEIDA NATION for approval prior to shipment of the tower. Prior to tower erection, the contractor shall submit the tower engineering and erection packages to ONEIDA NATION for approval. The engineering package shall be stamped by a structural or civil engineer, licensed in the State of Wisconsin.

A tribal construction permit will be required. The Tribal inspection department will monitor the project and inspect the foundation and tower. Additionally, the contractor shall hire a certified testing agency to perform concrete testing, with a minimum of a 7-day and 28 day compressive strength test, in addition to a slump test. The results shall meet the tower engineering requirements and be submitted to ONEIDA NATION for review and approval. If rock anchors are proposed, then a qualified inspector would have to inspect their placement. This inspector will be provided by the bidder and will be subject to the approval of ONEIDA NATION.

TOWER DESIGN

The tower will be designed by or under the direct supervision of a registered and licensed professional engineer, specifically experienced in the design of communications towers.

The allowable unit stresses and the actual member stresses resulting from the specified design loads shall not exceed those given in the AISC specifications.

All members of the structure shall be considered primary members for the purpose of establishing allowable compressive stresses per AISC, except those members whose sole function is to reduce the kl/r ratio of the primary members.

For self-supporting tower footings, the safety factor for uplift shall be as described in EIA/TIA-222-H or latest revision.

Combined tower wind loads and antenna loads shall be applied in combination such that the maximum axial forces are produced in girts, diagonals and legs. Multiple analyses may be necessary to ensure that worst case design conditions have been investigated.

The design shall hold all antennas on path within the critical tower twist, sway, and displacement limits of EIA/TIA-222-H or latest revision.

The tower when fully loaded with the specified antenna assemblies, transmission lines, and other appurtenances, shall be designed in accordance with EIA/TIA-222-H or latest revision. The design for the tower shall use the ice loading value determined by EIA/TIA-222-H, for the site location.

The following EIA/TIA-222-H standards will apply: 1. Structure Classification: The design for the tower assumes risk category III. 2. Wind Exposure Category: The design for the tower should assume exposure category C, unless the tower engineer's analysis results in a recommendation for Exposure D. 3. Topographic

Category: The design for the tower shall use a topographic feature category determined by an evaluation of the tower site and its surroundings, based on ASCE standard practices.

FABRICATION & ASSEMBLY

All fabrication, erection and identification of structural steel shall conform to AISC specifications.

Under no circumstances shall dissimilar metals be used in contact with one another for structural components.

Hot-dipped galvanizing of tubular sections shall be both inside and outside.

Welding processes and welding operators shall be qualified in accordance with AWS "Standard Qualification Procedure."

Materials must be match-marked for field assembly. Fabricate for a delivery sequence which will expedite erection and minimize field handling of materials.

The Bidder shall specify a tower from one of two approved communication tower manufacturers:

- 1. Valmont/Microflect;
- 2. Sabre.

No field welding, drilling or grinding shall be permitted unless specifically approved in writing.

All members shall be connected with galvanized structural bolts unless otherwise approved.

The tower will be provided with the correct size and length of anchor bolts necessary to carry the anticipated tower loads.

All threaded fasteners shall extend not less than 1-1/2 threads beyond nuts and locking devices.

CLIMBING LADDER

The self-supporting tower shall be provided with an inside climbing ladder which will extend to the ground or to a platform one step above ground with an anti-fall device, meeting the requirement of ANSI 14.3.

The anti-fall device can be a safety cable, rail or pipe, positioned on the ladder so that climbing personnel can clip into the safety device attached to a safety climbing harness from the ground or platform.

To be provided is one (per lattice tower) safety climb harnesses with lanyard and rear back lanyard with a shock absorber conforming to all applicable safety requirements of CAL/OSHA requirements.

As a minimum, the inside climbing ladder shall conform to the following:

Climbing ladder rungs shall be minimum diameter ¾ inches.

Distance between rungs shall not be more than 12 inches.

Minimum clear length of rungs shall be 16 inches.

Provide anti-climb panels that shall encompass both sides of the ladder. The panels shall be lockable but easily removed for authorized access.

The base of the ladder must be anchored to a concrete landing, per manufacturer's recommended design.

VERTICAL WAVEGUIDE LADDER

The vertical waveguide ladder typically shall be 20 inches wide with ladder rung spaced vertically (ladder rung spacing may be between 36-inches (3 feet) and 42-inches (3.5 feet)) and with equally spaced factory drilled holes in the rungs with alternating ³/₄ inch O.D. and 7/16" inch drilled holes to support standard snap-in stainless steel hanger kits and the 3/8 inch hardware for securing standard bolt-on hanger kits. The waveguide ladder may be fixed to the inside of one or more of the tower faces.

The ladder shall secure to the tower with J-bolt hardware or equivalent hardware and run the distance from the tower top to just under the waveguide bridge.

If the bottom of the ladder extends down past the last horizontal tower member by more than 2 feet, then two (2) #2 bare solid copper cables shall be Cadwelded between both sides of the ladder and the next lowest tower facial member to provide a continuous downward path for lightning strike currents.

For wind loading design purposes, assume one layer for waveguide and no more than three layers for coaxial cables.

TOWER FINISHES

All steel members and fasteners shall be hot-dipped galvanized with heavy zinc per standards in Section 4.0 of this specifications.

Under no circumstances shall any coating on any metal member or fastener be cathodic relative to the base material.

Use "Devcon," or equivalent, zinc rich paint, or approved equal, to touch up damaged galvanization or over Cadwelded ground cable connections to the tower members. Touch up may be done by either a spray or brush application.

TOWER LEG BASE GROUTING

Immediately after tower erection and leveling nut adjustment Five Star Special Grout 100 or an approved non-shrink cementitous grout shall be mixed per manufacturer's recommendations and placed in between the bottom of each tower base plate and the top of the finished tower leg concrete foundation.

The drainage slot in the grout shall not be circular but triangular in cross section as made with a 1 ½" x 1 ½" angle.

LIGHTNING PROTECTION AND GROUNDING

Tower top shall be equipped with a 15 ft. lightning rod assembly available from the Valmont/Microflect Company (or equivalent) for pipe-to-pipe mounting onto a top mounted 2-3/8 inch O.D. vertical top pipe mount.

Each tower leg shall be equipped with a tab or a point to Cadweld one 2/0 bare stranded copper ground cables that shall be installed to the buried tower ground system.

The base of the climbing ladder shall be Cadwelded with a 2/0 bare solid copper ground cable as provided by the tower foundation contractor that shall be connected to the buried ground system.

The base of the waveguide bridge support columns shall be Cadwelded with 2/0 bare stranded copper ground cables that shall be connected to the buried ground system.

Cadweld mold kits and weld metal shall be provided by the contractor unless specified by ONEIDA NATION. Field fabricated molds are unacceptable. All Cadwelds shall be performed in accordance to the vendor specifications and instructions to ensure good Cadwelds.

A single 20-foot concrete encased (Ufer) ground electrode shall be provided and installed with the tower foundation. The specific orientation may vary, depending on the proposed foundation design. However, the steel electrode must extend above the concrete a minimum of six inches to allow an exothermically welded connection to the tower ground ring conductors. An electrical connection shall be made to the Ufer electrode only as required by the local jurisdiction.

A 24-inch (or larger) ground bus bar shall be mounted on the tower, using insulated mounts, in-line with the cable ladder at a height of 15 to 20 feet above ground level. Twelve-inch (or larger) ground bus bars shall be installed at 50-foot intervals above the first, plus one near the top. These ground bars shall be connected to the tower ground system using a no.2 solid Cu conductor, which is exothermically welded to each bus bar.

ANTENNA TOWER MOUNTS

4-1/2" O.D. pipe mounts shall be supplied and installed at the position specified for each microwave antenna in the antenna list specified.

2-3/8"inch O.D. vertical pipe mounts shall be supplied and installed on the top of each tower leg top plate for the support of mobile radio antennas and lightning rod assembly.

Other mounts shall be provided, as called-out in the antenna list

Tower pipe mounts shall be plumb in each axis unless specified otherwise.

The 4.5 inch O.D. pipe mounts shall be positioned on the outside of each tower leg to prevent the parabolic antenna rear feed horn assembly from being directly opposite a tower leg member. Tower pipe mount positioning shall not prevent direct waveguide or coaxial installation to any parabolic antenna.

TOWER LOADING

The structural design of the tower and foundation shall accommodate all specified loads, including the specified antennas, feedlines, and "future" loads.

For all vertical side-mounted antennas, assume one 24-inch stand-off mount and one tip support per antenna, for loading calculations. Vertical antennas shall use a 2-3/8 inch pipe mount.

For all microwave antennas 4-feet or larger in diameter, a 4-1/2 inch pipe mount shall be assumed. For smaller microwave antennas, a smaller mount (or the manufacturer's recommended mount) shall be assumed.

All 2-3/8" pipe mounts and all 4-1/2" pipe mounts, listed as "2023" shall be provided with the tower. Antennas and transmission lines will be installed, by others, under a separate contract. Platform and mounts for cellular antennas will not be required with the tower.

Tower Loading information

	thwest Tov	· · · · · · · · · · · · · · · · · · ·			i	
	Quantity	Description	Installation Date	Azimuth	Mount	Transmission Line
195' (tip)		Top Mountred lightning rod & downlead (No 2)	2023	N/A	Top mount	No 2 AWG
190' (tip)	3	DS7C09P36UD Antenna and 434B TTA	2023	20/120/260	Commscope S-600 (3x), or equal	7/8" AVA5-50 Heliax
160'	3	Erickson Air4435	2023	20/120/260	(3x) 2-3/8" pipe mount	(3x) No 2 Gnd, (12x) Armored Fiber
150'	1	Cellular tri-mount w/ (9x) 6-foot panels (typ)	future	20/120/260		(9x) 1-5/8" Heliax
135	1	6-foot UHX Microwave Antenna	2023	88.2	4-1/2" Pipe Mount	EW-90 Waveguide
100'	1	6-foot UHX Microwave Antenna	future	88.2	4-1/2" Pipe Mount	EW-63 Waveguide
100'	1	6-foot UHX Microwave Antenna	future	178.5	4-1/2" Pipe Mount	EW-63 Waveguide
75'	1	6-foot UHX Microwave Antenna	2023	178.5	4-1/2" Pipe Mount	EW-90 Waveguide
					1	
180' Pub	lic Safety	Tower				
Height	Quantity	Description	Installation Date	Azimuth	Mount	Transmission Line
195' (tip)	1	Top Mountred lightning rod & downlead (No 2)	2023	N/A	Top mount	No 2 AWG
190' (tip)	3	DS7C09P36UD Antenna and 434B TTA	2023	20/120/260	Commscope S-600 (3x), or equal	7/8" AVA5-50 Heliax
160'	3	Erickson Air4435	2023	20/120/260	(3x) 2-3/8" pipe mount	(3x) No 2 Gnd, (12x) Armored Fiber
155'	1	Cellular tri-mount w/ (9x) 6-foot panels (typ)	future	20/120/260		(9x) 1-5/8" Heliax
100'	1	8-foot UHX Microwave Antenna	future	88.2	4-1/2" Pipe Mount	EW-63 Waveguide
1001	1	8-foot UHX Microwave Antenna	future	178.5	4-1/2" Pipe Mount	EW-63 Waveguide
100'		C Contribution Advanced Automotive	2023	358.5	4-1/2" Pipe Mount	EW-90 Way equide
75'	1	6-foot UHX Microwave Antenna	2020			
	1	8-foot UHX Microwave Antenna	2023	48.8	4-1/2" Pipe Mount	EW-90 Waveguide
75'	1	~~~		48.8	4-1/2" Pipe Mount	EW-90 Waveguide
75'	1	~~~		48.8	4-1/2" Pipe Mount	EW-90 Waveguide

HORIZONTAL WAVEGUIDE BRIDGE

The waveguide bridge shall be provided between the tower and the Transmission Line Service Entrance on the radio building wall, as shown on the plans, and engineered to provide horizontal support of waveguide and coaxial feedlines.

The waveguide bridge shall be 24 inches wide and shall be suitably attached and supported only to its support pipes independent of the radio shelter and tower, and shall have sufficient strength to support two 250 pound persons and shall ensure that no damage is sustained by a falling one cubic foot block of ice from the top of the tower. The ice bridge should be fully supported by a minimum of two pairs of pipe columns.

The horizontal support of the feedlines under the waveguide bridge shall be via a two tier galvanized angle trapeze, with combination ³/₄ inch O.D. and 7/16 inch drilled holes for the securement of hanger kits, with each end supported vertically from the overhead waveguide bridge channel via 3/8 inch galvanized threaded rods. These hanger kit support frames shall be spaced horizontally every 3 feet under the waveguide bridge.

TOWER DOCUMENTATION REPORT

A complete and orderly summary of the tower stress analysis showing loading considerations, tower base reactions, member sizes, allowable stresses and maximum computed forces in members is required for the tower. The analysis is to be certified by a registered professional engineer with experience in tower design.

Complete installation drawings are required at the conclusion of the project, complete with as-built corrections reflecting the completed installation.

Before submitting drawings or other data to ONEIDA NATION it shall be the sole responsibility of the Bidder to comprehensively and thoroughly check same for accuracy and full compliance with plans and specifications and proper form, fit and function.

Where a specific material, process, or product is specified, and the Bidder desires to provide an improvement or equal, he shall submit a statement to this effect to ONEIDA NATION.

Tower manufacturer shall provide the tower foundation design based on the soils survey and soils report. The foundation design shall be signed by a registered professional engineer.

150 FT. MONOPOLE TOWER

Height of the monopole tower will be 150 feet. The tower will not require aeronautical lighting or paint. The tower will be provided with a vertical waveguide ladder, waveguide ice bridge, climbing steps (omitted for the lowest 15-feet), mobile and parabolic antenna tower mounts, and lightning rod assembly. Bidder will also provide:

- 1. The assembly and erection of the self-supporting tower and associated equipment and materials listed in paragraph 1 above.
- 2. A climbing ladder and anti-fall device and shall provide two (2) full body climbing harnesses (per tower). Climbing steps and safety climb system must meet EIA-222-H requirements.

- 3. The vertical ground conductor (No 2 AWG Cu) extending from the top-mounted lightning rod assembly down to ground level, bonded to ground bars to be mounted at 50-foot intervals. This conductor shall be bonded to the site ground system.
- 4. The exothermic molecular (Cadweld) bonding of the tower ground system to the monopole, vertical waveguide ladder, and waveguide bridge support pipes.

Bidder is responsible for the design and construction of the tower and foundation. The tower foundation is to be designed for the total tower load that includes the antenna and transmission line loads listed below. The foundation design is to take into account the ultimate tower load specified above, as well as the soils report that will be distributed at the pre-bid conference.

Regardless of mode of transportation or F.O.B. designation, shipping and delivery costs shall be prepaid by the Bidder. The Bidder shall be responsible and accountable for the safe delivery of all goods to ONEIDA NATION.

Bidder shall furnish all transportation, handling, storage of materials, labor, tools, implements, machinery, supplies, materials, water, heat, utilities and incidentals, and shall do what is necessary to perform and complete the work.

Bidder shall ensure daily and at the completion of the installation that the working area is in order and clean. Bidder is responsible for securing the safety and security of all equipment and supplies left at the job site.

Bidder shall remove and properly dispose of all packing materials, shipping crates, concrete form work materials, and excess installation materials and hardware.

Bidder shall submit to ONEIDA NATION as soon as they are available from the tower vender, a complete set of the comprehensive tower and waveguide bridge drawings and the tower foundation design and construction notes.

The bidder must have at least ten (10) years' experience in the construction of telecommunications sites and towers.

ONEIDA NATION will review shop drawings and the tower engineering packet. The contractor shall submit the tower engineer's permitting package to ONEIDA NATION for approval prior to shipment of the tower. Prior to tower erection, the contractor shall submit the tower engineering and erection packages to ONEIDA NATION for approval. The engineering package shall be stamped by a structural or civil engineer, licensed in the State of Wisconsin.

A tribal construction permit will be required. The Tribal inspection department will monitor the project and inspect the foundation and tower. Additionally, the contractor shall hire a certified testing agency to perform concrete testing, with a minimum of a 7-day and 28 day compressive strength test, in addition to a slump test. The results shall meet the tower engineering requirements and be submitted to ONEIDA NATION for review and approval. If rock anchors are proposed, then a qualified inspector would have to inspect their placement. This inspector will be provided by the bidder and will be subject to the approval of ONEIDA NATION.

TOWER DESIGN

The tower will be designed by or under the direct supervision of a registered and licensed professional engineer, specifically experienced in the design of communications towers.

The allowable unit stresses and the actual member stresses resulting from the specified design loads shall not exceed those given in the AISC specifications.

All members of the structure shall be considered primary members for the purpose of establishing allowable compressive stresses per AISC, except those members whose sole function is to reduce the kl/r ratio of the primary members.

For self-supporting tower footings, the safety factor for uplift shall be as described in EIA/TIA-222-H or latest revision.

Combined tower wind loads and antenna loads shall be applied in combination such that the maximum axial forces are produced in girts, diagonals and legs. Multiple analyses may be necessary to ensure that worst case design conditions have been investigated.

The design shall hold all antennas on path within the critical tower twist, sway, and displacement limits of EIA/TIA-222-H or latest revision.

The tower when fully loaded with the specified antenna assemblies, transmission lines, and other appurtenances, shall be designed in accordance with EIA/TIA-222-H or latest revision. The design for the tower shall use the ice loading value determined by EIA/TIA-222-H, for the site location.

The following EIA/TIA-222-H standards will apply: 1. Structure Classification: The design for the tower assumes risk category III. 2. Wind Exposure Category: The design for the tower should assume exposure category C, unless the tower engineer's analysis results in a recommendation for Exposure D. 3. Topographic Category: The design for the tower shall use a topographic feature category determined by an evaluation of the tower site and its surroundings, based on ASCE standard practices.

FABRICATION & ASSEMBLY

All fabrication, erection and identification of structural steel shall conform to AISC specifications.

Under no circumstances shall dissimilar metals be used in contact with one another for structural components.

Hot-dipped galvanizing of tubular sections shall be both inside and outside.

Welding processes and welding operators shall be qualified in accordance with AWS "Standard Qualification Procedure."

Materials must be match-marked for field assembly. Fabricate for a delivery sequence which will expedite erection and minimize field handling of materials.

The Bidder shall specify a monopole from one of two approved communication tower manufacturers:

- 1. Valmont/Microflect;
- 2. Sabre.

No field welding, drilling or grinding shall be permitted unless specifically approved in writing.

All members shall be connected with galvanized structural bolts unless otherwise approved.

The monopole will be provided with the correct size and length of anchor bolts necessary to carry the anticipated tower loads.

All threaded fasteners shall extend not less than 1-1/2 threads beyond nuts and locking devices.

CLIMBING PEGS

The monopole shall be provided with climbing pegs which will extend from 15-feet above ground to the top, including an anti-fall device, meeting the requirement of ANSI 14.3.

The anti-fall device can be a safety cable, rail or pipe, positioned on the ladder so that climbing personnel can clip into the safety device attached to a safety climbing harness from the ground or platform.

To be provided are two sets of safety climb harnesses with lanyard and rear back lanyard with a shock absorber conforming to all applicable safety requirements of CAL/OSHA requirements.

VERTICAL WAVEGUIDE LADDER

The vertical waveguide ladder typically shall be 12 inches wide with ladder rung spaced vertically (ladder rung spacing may be between 36-inches (3 feet) and 42-inches (3.5 feet)) and with equally spaced factory drilled holes in the rungs with alternating ¾ inch O.D. and 7/16" inch drilled holes to support standard snap-in stainless steel hanger kits and the 3/8 inch hardware for securing standard bolt-on hanger kits. The waveguide ladder may be fixed to the outside of the monopole.

The ladder shall secure to the tower with galvanized hardware and run the distance from the highest listed microwave antenna to just under the waveguide bridge.

For wind loading design purposes, assume one layer for waveguide and no more than three layers for coaxial cables.

Coaxial cables, and data cables specified for the upper antennas may be designed to run inside the monopole, provided that appropriate access holes and hangers are provided at the levels called out for the associated antennas.

TOWER FINISHES

All steel members and fasteners shall be hot-dipped galvanized with heavy zinc per standards in Section 4.0 of this specifications.

Under no circumstances shall any coating on any metal member or fastener be cathodic relative to the base material.

Use "Devcon," or equivalent, zinc rich paint, or approved equal, to touch up damaged galvanization or over Cadwelded ground cable connections to the tower members. Touch up may be done by either a spray or brush application.

TOWER LEG BASE GROUTING

Immediately after erection and leveling nut adjustment Five Star Special Grout 100 or an approved non-shrink cementitous grout shall be mixed per manufacturer's recommendations and placed in between the bottom of the monopole base plate and the top of the finished concrete foundation.

The drainage slot in the grout shall not be circular but triangular in cross section as made with a 1 ½" x 1 ½" angle.

LIGHTNING PROTECTION AND GROUNDING

The monopole top shall be equipped with a 15 ft. lightning rod assembly available from the Valmont/Microflect Company (or equivalent) for pipe-to-pipe mounting onto a top mounted 2-3/8 inch O.D. vertical top pipe mount.

The monopole shall be equipped with four tabs or points, each to Cadweld one 2/0 bare stranded copper ground cable that shall be installed to the buried tower ground system.

The base of the climbing ladder shall be Cadwelded with a 2/0 bare solid copper ground cable as provided by the tower foundation contractor that shall be connected to the buried ground system.

The base of the waveguide bridge support columns shall be Cadwelded with 2/0 bare stranded copper ground cables that shall be connected to the buried ground system.

Cadweld mold kits and weld metal shall be provided by the contractor unless specified by ONEIDA NATION. Field fabricated molds are unacceptable. All Cadwelds shall be performed in accordance to the vendor specifications and instructions to ensure good Cadwelds.

A single 20-foot concrete encased (Ufer) ground electrode shall be provided and installed with the foundation. The specific orientation may vary, depending on the proposed foundation design. However, the steel electrode must extend above the concrete a minimum of six inches to allow an exothermically welded

connection to the tower ground ring conductors. An electrical connection shall be made to the Ufer electrode only as required by the local jurisdiction.

A 12-inch (or larger) ground bus bar shall be mounted on the tower, using insulated mounts, in-line with the cable ladder at a height of 15 to 20 feet above ground level. Twelve-inch (or larger) ground bus bars shall be installed at 50-foot intervals above the first, plus one near the top. These ground bars shall be connected to the tower ground system using a no.2 solid Cu conductor, which is exothermically welded to each bus bar.

ANTENNA TOWER MOUNTS

The monopole shall be fabricated with bolted connections for each mount listed, including "future" mounts (chain-mounts are not allowed).

4-1/2" O.D. pipe mounts shall be supplied and installed at the position specified for each microwave antenna in the antenna list specified.

<u>2-3/8</u>" inch O.D. vertical pipe mounts shall be supplied and installed on the top of each tower leg top plate for the support of mobile radio antennas and Microflect lightning rod assembly.

All pipe mounts shall be plumb in each axis unless specified otherwise.

TOWER LOADING

The structural design of the monopole and foundation shall accommodate all specified loads, including the specified antennas, feedlines, and "future" loads.

For all vertical side-mounted antennas, assume one 24-inch stand-off mount and one tip support per antenna, for loading calculations. Vertical antennas shall use a 2-3/8 inch pipe mount.

For all microwave antennas 4-feet or larger in diameter, a 4-1/2 inch pipe mount shall be assumed. For smaller microwave antennas, a smaller mount (or the manufacturer's recommended mount) shall be assumed.

All 2-3/8" pipe mounts and all 4-1/2" pipe mounts, listed as "2023" shall be provided with the tower. Antennas and transmission lines will be installed, by others, under a separate contract.

Tower Loading information

150-foot	monopole					
Height	Quantity	Description	Installation Date	Azimuth	Mount	Transmission Line
165' (tip)	1	Top Mountred lightning rod & downlead (No 2)	2023	N/A	Top mount	No 2 AWG
.60' (tip)	3	DS7C09P36UD Antenna and 434B TTA	2023	270	Sabre C10-857-801 V-Boom or equal	7/8" AVA5-50 Heliax
20'	1	8-foot UHX Microwave Antenna	future	220	4-1/2" Pipe Mount	EW-63 Waveguide
10	1	6-foot UHX Microwave Antenna	2023	268.2	4-1/2" Pipe Mount	EW-90 Waveguide
L00'	1	6-foot UHX Microwave Antenna	2023	228.8	4-1/2" Pipe Mount	EW-90 Waveguide
		Mounts to be provided with tower				
		Mounts are future			1	

HORIZONTAL WAVEGUIDE BRIDGE

The waveguide bridge shall extend ten-feet away from the monopole base, as shown on the plans, and engineered to provide horizontal support of waveguide and coaxial feedlines. Cabinets will be installed, by others, adjacent to the waveguide bridge.

The waveguide bridge shall be 24 inches wide and shall be suitably attached and supported only to its support pipes independent of the monopole, and shall have sufficient strength to support two 250 pound persons and shall ensure that no damage is sustained by a falling one cubic foot block of ice from the top of the monopole. The ice bridge should be fully supported by a minimum of two pairs of pipe columns.

The horizontal support of the feedlines under the waveguide bridge shall be via a two tier galvanized angle trapeze, with combination 3/4 inch O.D. and 7/16 inch drilled holes for the securement of hanger kits, with each end supported vertically from the overhead waveguide bridge channel via 3/8 inch galvanized threaded rods. These hanger kit support frames shall be spaced horizontally every 3 feet under the waveguide bridge.

TOWER DOCUMENTATION REPORT

A complete and orderly summary of the stress analysis showing loading considerations, base reactions, allowable stresses and maximum computed forces is required for the monopole. The analysis is to be certified by a registered professional engineer with experience in tower design.

Complete installation drawings are required at the conclusion of the project, complete with as-built corrections reflecting the completed installation.

Before submitting drawings or other data to ONEIDA NATION it shall be the sole responsibility of the Bidder to comprehensively and thoroughly check same for accuracy and full compliance with plans and specifications and proper form, fit and function.

Where a specific material, process, or product is specified, and the Bidder desires to provide an improvement or equal, he shall submit a statement to this effect to ONEIDA NATION.

Monopole manufacturer shall provide the foundation design based on the soils survey and soils report. The foundation design shall be signed by a registered professional engineer.

SHELTER (X2)

A 12-foot by 20-foot shelter shall be provided and installed, including an engineered foundation at two of the three tower locations.

A single 20-foot concrete encased (Ufer) ground electrode shall be provided and installed with the shelter foundation, bent as needed to fit within the perimeter of the footing. The steel electrode must extend above the

concrete a minimum of six inches to allow an exothermically welded connection to the ground system. An electrical connection shall be made to the Ufer electrode only as required by the local jurisdiction.

The specified shelter is a CellXion (Sabre), Fibrebond, or Modular Connections concrete aggregate shelter, as specified in the attachments. The shelter shall be complete, including HVAC, electrical & grounding systems, lighting, four equipment racks, cable tray, and other factory-installed accessories, as specified. The shelter must come with the following factory-installed options:

- 1. 12-foot x 20-foot concrete shelter, with neutral aggregate finish
- 2. 40-inch level-4 ballistic door with hydraulic closer
- 3. Service entrance & load center, 200A, 42 position (minimum) with surge arrestor
- 4. 200A automatic transfer switch
- 5. Conduit entrance: Two 2" penetrations (sealed for future use)
- 6. HVAC unit: 24K BTU w/ 10K heating, standard thermostat, and exterior GFCI service receptacle
- 7. Interior lighting: Six 4-foot fixtures
- 8. Exterior lighting: One 75-watt (equivalent) fixture
- 9. Quad receptacles: Two per wall and two on ceiling (one above each row of racks)
- 10. Alarms: Door entry, high and low temperature, smoke, terminated on wall-mounted terminal block
- 11. Waveguide entrance: 4" x 8 holes
- 12. Relay racks: four installed per floor plan
- 13. Cable ladder: 12-Inch wide, above both rows of racks, per floor plan
- 14. Ground halo: R56 #4 AWG halo, with insulated standoffs, and with #6AWG along cable tray, with each corner exothermically welded, via pigtails to exterior ground ring
- 15. Ground bus: 20" ground bus, insulated, one interior and one external to the waveguide entrance, with the interior tied to the ground halo and the exterior exothermically welded to exterior ground ring.
- 16. Ventilation fan: 585cfm (min) exhaust fan with thermostat and filtered intake louver
- 17. Professional Engineered / stamped drawing set
- 18. State review, inspection, and insignia / seal for State of Wisconsin
- 19. Freight and offload at job site

ONEIDA NATION will review shop drawings and the shelter engineering packet. The contractor shall submit the shelter engineer's permitting package to ONEIDA NATION for approval prior to shipment of the shelter. Prior to installation, the contractor shall submit the engineering and design package to ONEIDA NATION for approval. The engineering package shall be stamped by a structural or civil engineer, licensed in the State of Wisconsin.

A tribal construction permit will be required. The Tribal inspection department will monitor the project and inspect the foundation work. Additionally, the contractor shall hire a certified testing agency to perform concrete testing, with a minimum of a 7-day and 28 day compressive strength test, in addition to a slump test. The results shall meet the engineering requirements and be submitted to ONEIDA NATION for review and approval.

Installation of the shelter will not require any outdoor conduit, as the power system, including conduit to the shelter will be the responsibility of others. External ground connections to the shelter will also be the responsibility of others.

Site Development

Site preparation

Construction for all three sites will include grubbing, trenching, conduit placement, fencing, and grounding, in addition to the tower and shelter installations described above. Contractor will provide generator installation and startup services at the Northwest and Public Safety sites. The sites will be surveyed and construction stakes will be placed by others, prior to the start of construction. See Attachment D for additional site preparation details.

The Public Safety Tower site shall require the construction of a driveway from the right-of-way on County Road E, using the existing driveway approach at the road, extending approximately 400 feet to the site. The Contractor shall be responsible for ensuring that the driveway skirt still meets the requirements of the local jurisdiction. The road bed for the driveway shall use the materials and follow the profile provided in Attachment C. If damaged during construction, the driveway will be restored to its original condition at the end of the project.

The Skenandoah site shall require a temporary rocked surface to support light vehicles and equipment during construction, such as pickups, skid-steer's and foot traffic. For any traffic, the existing sidewalk and curb must be protected against damage. A crane used for erecting the pole, must be set up in the parking lot. After construction is complete, any concrete damage must be repaired and the rock surface must be leveled and rerocked with a minimum of 4-inches of 3/4" minus compacted rock, suitable for occasional light vehicle traffic.

An electrical service entrance shall be installed for the Public Safety site and the Northwest site, including a vault within the compound, a vault at the public right of way, connected by two 3" conduit. One 2" conduit will be placed from the compound vault to the shelter's meter base. The vaults shall meet the local utility's requirements and the contractor shall be responsible for coordinating with the utility for installation of the service. The meter base shall meet all requirements set by the local utility and jurisdiction for specifications and service disconnect requirements. The location for the electrical service and meter base is approximately shown on the site plans. Those two sites will also require a hand hole within the compound, and a handhole near the right of way, connected by a 2" conduit, for a future fiber installation. The fiber conduit shall be placed at a minimum depth of 24 inches and the separation between telecom and power shall be a minimum of 12 inches. All conduit will be installed using long sweeps (not to exceed 180 degrees or 300-feet between vaults or handholes), and mule tape, to facilitate cable installations by others. All conduit shall be sized and placed at a depth that meets all local codes and conventions for their intended use.

The Skenandoah site will receive electrical power from the adjacent office. This project will install two 2" conduits from the building to the compound, to locations determined by the Tribal representative. One conduit will support a future branch circuit (electrical installation by others). The other conduit shall support fiber optic cable (cable installed by others). Both conduits shall include mule tape. The power conduit shall include a

junction box on the exterior wall of the building, located as directed, and will terminate in a 3' x 3' vault in the compound. The telecom conduit shall include a junction box on the interior wall of the building, located as directed, and will terminate on a NEMA 4x junction box, mounted to an ice bridge support pipe, as shown on the site drawings. Both conduits shall be placed at a mimum depth of 36 inches and will be separated by 12" horizontally. A portion of the trench shall be left exposed, to allow for additional telecom and power conduits to be placed by others at a later date. The trench must be adequate for more conduits to be added, for the generator installation later in the season.

Surface finishing of each compound shall include a layer of commercial quality landscaping fabric, covered by 6-inches of 1-1/2" minus rock, compacted to support light vehicle traffic.

Fencing and grounding

Fencing and grounding shall be provided at all sites under this scope of work. Site grounding shall include connections to the electrical service entrance, tower, shelter, generator, and fence components.

Construction of the fence must be coordinated with other site work, specifically the grounding. The bidder must locate existing ground conductors before commencing work. Bidder will also dig a trench for new conductors, as indicated above. If bedrock is encountered at a depth less than 12-inches, a reasonable effort with rock hammer or concrete saw shall be used to set the conductor at a depth of 12-inches. If conditions are discovered that would require more than a reasonable amount of effort with a rock hammer or saw, allowance may be given for a reduced depth. However, any adjustment shall be subject to review and approval by the Tribal representative. The trench depth shall be up to a maximum depth of 12 inches, depending on the depth of soil before hitting bedrock.

Fencing shall meet the following specifications:

- 1. 7-foot tall cyclone fence enclosing the site dimensions reflected on each site plan, shall be constructed using 2-inch, 6 gauge galvanized fence fabric.
- 2. In-line posts to be 2-1/2 inch schedule 40 galvanized pipe, set 24-inches deep and in an 8-inch diameter concrete footing. Post spacing shall be ten feet or less.
- 3. Corner posts shall be 3-1/2 inch schedule 40 galvanized pipe, set 36-inches deep in a concrete footing, 10 inches in diameter. Diagonal supports shall anchor to the adjacent post and be adjustable.
- 4. Posts for gates shall meet the same requirements as corner posts.
- 5. 3 strands of barbed wire will be installed on top of the fence angled outwards in an 18 inch spread adding an additional 1 foot, for a total height of 8-feet. Entire fence line shall include concertina razor wire, with suitable barbed wired transitions for gates, as needed.
- 6. The top rail shall be 1-5/8 inch OD schedule 40 galvanized pipe.
- 7. Gates shall include one 4-foot wide personnel gate and one 16-foot wide (2 eight foot panels) double-swing vehicle gate. Vehicle gate posts shall be 3-1/2 inch schedule 40 galvanized pipe.
- 8. All gates shall be lockable using a heavy duty locking mechanism. Latch assembly for vehicle gates shall engage into a center stop set in a concrete footing large enough to secure the gate adequately.

In reference to the site & grounding plans in Attachment C, this project will provide all ground electrodes and conductors. Location of existing underground facilities is the responsibility of the Contractor. Therefore, care must be used to avoid damage to existing conductors. Ground connections are included for a generator and LP tank, where shown.

Grounding shall meet the following specifications:

- 1. All grounding conductors shall be No. 2 AWG stranded tinned copper.
- 2. Conductor to conductor connections shall be exothermically welded, as well as connections to fence posts and ground rods.
- 3. Buried conductors shall be placed 12" below grade, as limited by bedrock.
- 4. Ground rods (5/8" x 10') shall be driven full depth to below grade, or to refusal. Rods that cannot be fully driven, shall be supplemented with additional rods, subject to approval of the Tribal representative.

In reference to the site plans in Attachment D, bollards shall be installed, where indicated, to protect the generator, propane tank, and other equipment. Each bollard shall consist of a 4-inch galvanized schedule 80 pipe, set to a 3-foot depth, in an 18-inch diameter concrete footing. The bollard shall extend 40-inches above ground, and be filled with concrete, rounded at the top. All bollards shall be primed, then painted in bright yellow enamel.

Backup Generator

Backup Generators shall be provided for the Public Safety and Northwest tower sites. The contractor shall provide and install a 36KW / 45KVA propane generator, 500 Gallon propane tank, a service disconnect, automatic transfer switch, and all necessary wiring, conduit, and piping necessary to place the system into service at each location. The generator must be factory-equipped with generator-mounted overcurrent protection. The Contractor shall be responsible for obtaining start-up services from a factory-authorized service company.

The generator system shall be rated and approved for non-prime-power (standby) use. Contract shall include the purchase, installation, wiring, parts, fuel source hookup and testing. Installation services shall provide all wiring, conduit, system components, and startup services necessary to place the generator into service. The fuel tank must be filled before final acceptance of the system.

The generator shall be a single phase, 240/120 volt system with generator-mounted overload protection. It shall include a 120V block heater and trickle charger, and be equipped with vibration isolation. Oil drain shall be equipped with shutoff valve and shall be plumbed to the generator set frame where it shall be capped with an NPT pipe fitting and be easily accessible for maintenance.

The piping for the propane tank shall be sized per generator manufacturer's recommendations and per local code and be buried at a depth of 18-inches. Exposed piping must be black steel, but buried pipe may be polyethylene designed for the purpose.

One 2-inch and one 1-1/2" conduit shall be installed from the generator pad to a transfer switch, to be installed in the shelter, adjacent to the service entrance. The three-pole transfer switch shall be configured to switch the neutral. It shall be configured for the neutral to be simultaneously switched with the ungrounded conductors.

The system must have digital controls, equipped with TCP/IP SNMP capability for status monitoring and control. The generator controls must also include an automatic exercise function that can be set for weekly or monthly testing and include configurable warm-up and cool down features. The system must be NFPA-110 compliant and be UL-2200 rated.

The generator shall be permanently attached to a concrete footing. See attachment D for concrete and compacted rock requirements. The propane tank may be mounted to two curb-style concrete beams, which in turn shall be placed on a six-inch bed of ¾ minus compacted rock, extending six-inches beyond the horizontal dimensions of the beams.

The automatic transfer switch shall be mounted in the shelter, in a NEMA 3R cabinet, rated at 200A minimum, microprocessor-controlled, UL listed, and meet NFPA 110 for standby power systems. ATS shall be a 3-pole design with a fully-rated un-switched neutral. Mechanism shall be double-throw and mechanically interlocked.

The manufacturer's and dealer's warranty shall be for a minimum period of two (2) years from date of initial start-up of the system and shall cover repair parts, labor, reasonable travel expense necessary for repairs at the job site, and expendables (lubricating oil, filters, antifreeze, and other service items made unusable by the defect) used during the course of repair. Applicable deductible costs shall be specified in the manufacturer's warranty. Running hours may be a limiting factor for the system warranty by either the manufacturer or servicing dealer. The bid must include a detailed written warranty, including the hours of operation covered under the warranty, and any terms and conditions

CODES, STANDARDS AND SPECIFICATIONS

Issues of the following documents, in effect at this time of solicitation for bids, form a part of this specification. In the event of a conflict between this specification and the codes, standards and specifications below, the most stringent and/or current requirement shall govern.

American Institute of Steel Construction (AISC): Manual of Steel Construction.

Electronics Industries Association (EIA) Standard TIA-222-H: Structural Standards for Antenna Towers and Antenna Supporting Structures

American Welding Society (AWS): Structural Welding Code

American Institute of Steel Construction (AISC): Specification for Structural Joints using ASTM A325 or A490 Bolts

American Concrete Institute ACI 318: Building Code Requirement for Reinforced Concrete

Concrete Reinforcing Steel Institute (CRSI) Manual of Standard Practice.

American Society for Testing and Materials (ASTM)

National Electric Code (NEC): Tower Lighting Kits.

FAA Advisory Circular #AC 70/7460: Obstruction Marking and Lighting.

FCC: Federal Communications Commission Rules and Regulations

Attachment D: Site Locations, Site Plans & Site Description

Lattice Tower A - "Public Safety Tower"

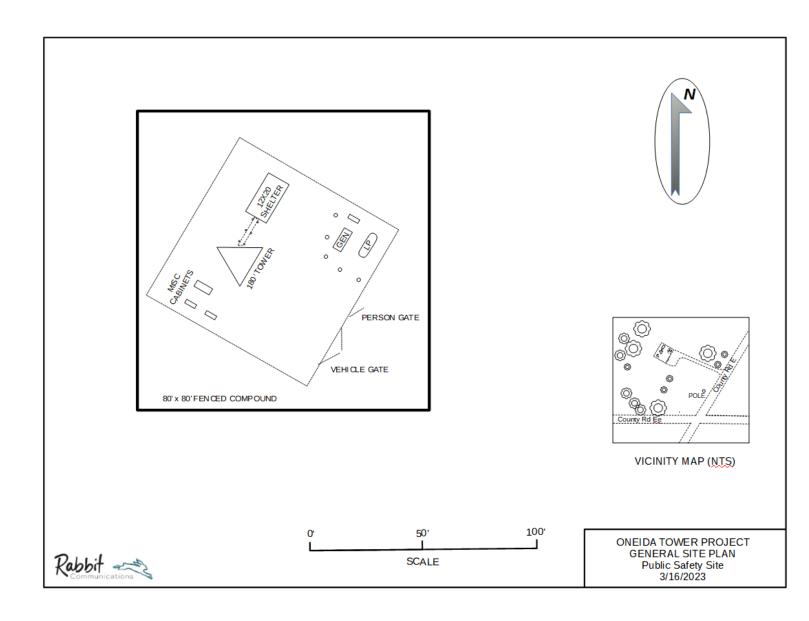
The planned tower site is on County Rd E, De Pere, WI 54115 (To the west of County Rd E, across from Onida One-Stop, north of the intersection with County Rd Ee) with the following coordinates: 44° 26′ 43.1″ N, 88° 13′ 39.6″ W

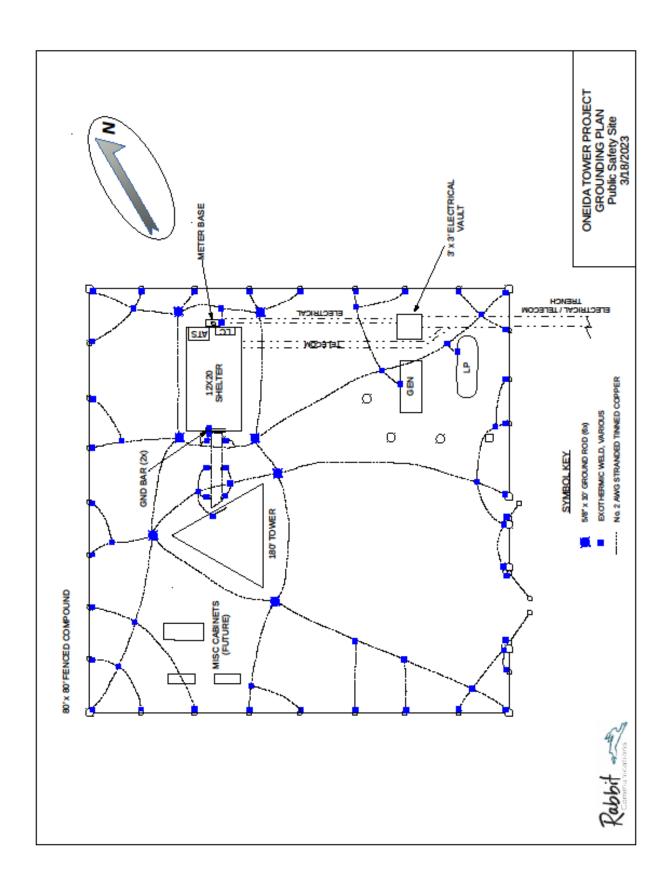
The tower ground level is: 737 feet AMSL (224.6 meters) and the tower height will be: 180 feet (54.9 meters) AGL (190 feet (57.9 meters) with appurtenances).

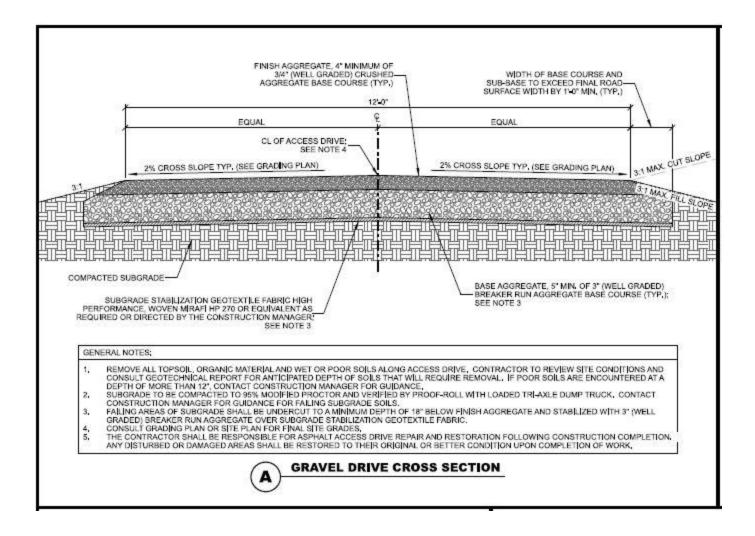
This project will include the development of a 80 ft by 80 ft tower compound, security fencing, grounding system, communications shelter, generator set (fuel tank, generator, transfer switch), tower foundation and tower erection.

Additionally, an approximately 400 ft. gravel access road will need to be improved to the tower site. See gravel cross-section profile following the grounding diagram.









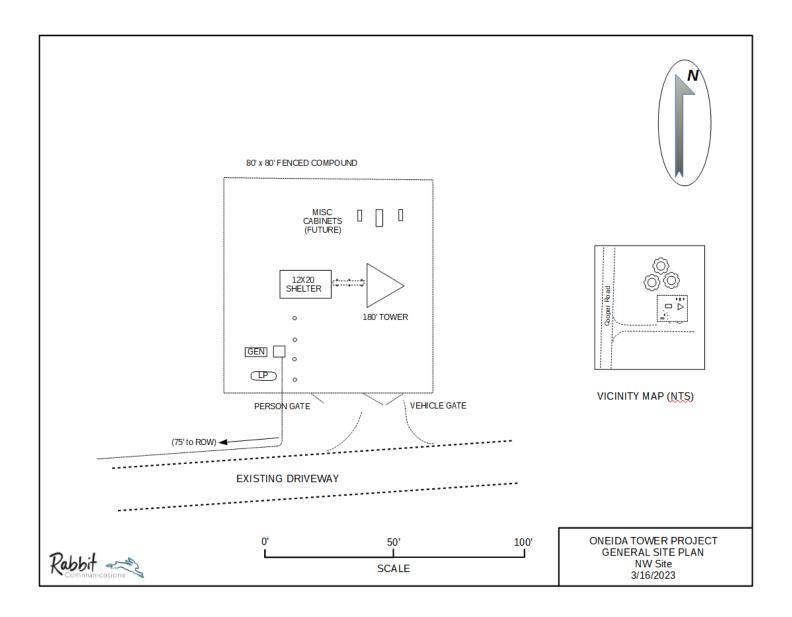
Lattice Tower B - "NW Tower"

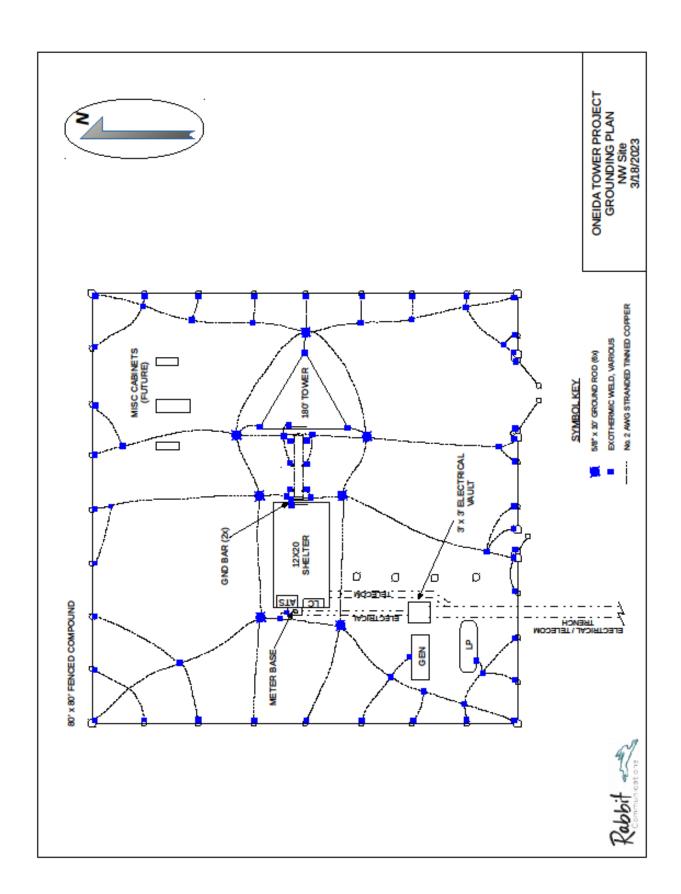
The planned tower site is located at N7890 Cooper Rd, Oneida, WI 54155 with the following coordinates: 44° 31' 24.5" N, 88° 13' 50.2" W

The tower ground level is: 768 feet AMSL (234.1 meters) and the tower height will be 180 feet (54.9 meters) AGL (190 feet (57.9 meters) with appurtenances)

This project will include the development of a 80 ft by 80 ft tower compound, security fencing, grounding system, communications shelter, generator set (fuel tank, generator, transfer switch), tower foundation and tower erection.







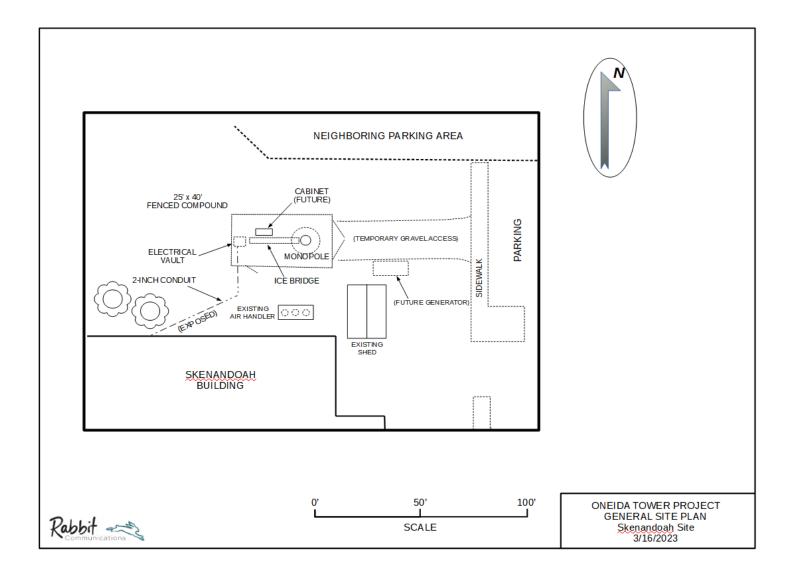
Monopole Tower C-"Skenandoah Tower"

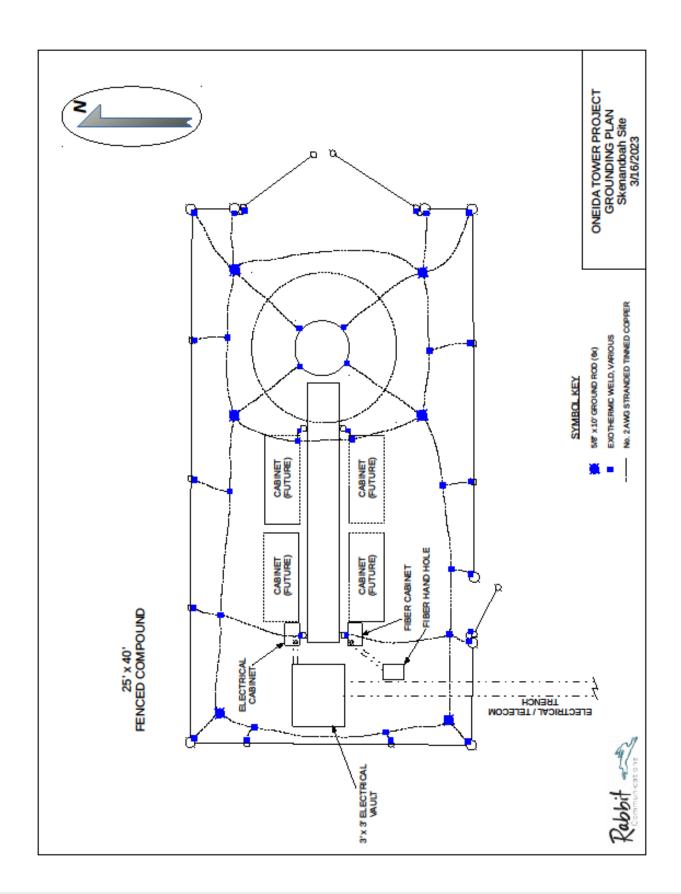
The planned tower site is located at 909 Packerland Dr, Green Bay, WI 54303 adjacent to the Skenandoah Complex with the following coordinates: 44° 31' 35.8" N, 88° 5' 50.4" W

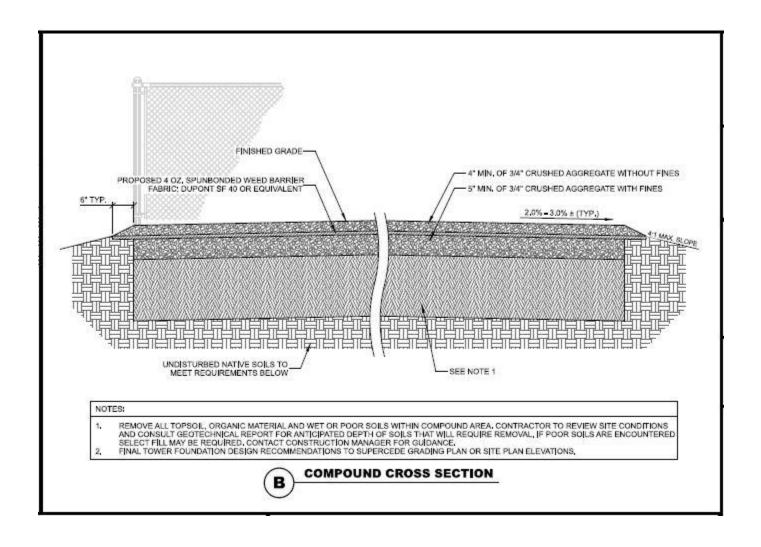
The tower ground level is: 691 feet AMSL (210.6 meters) and the tower height will be 150 feet (45.7 meters) AGL (160 feet (48.8 meters) with appurtenances)

This project will include the development of a 25 ft by 40 ft tower compound, security fencing, grounding system, communications cabinets, tower foundation and tower erection. Commercial and emergency power will be provided by the Skenandoah Complex.









CONCRETE & REINFORCING STEEL

MATERIAL PROPERTIES (U.N.O.) SPECIFIED COMPRESSIVE STRENGTH OF CONCRETE; fc = 4000 PS SPECIFIED YIELD STRENGTH OF CONCRETE REINFORCEMENT: (y = 60 KSI (A615 GR 60))

ALL BAR LAPS SHALL CONFORM TO ACI 318 CLASS "B" SPLICE CRITERIA, USE TOP BAR LAP LENGTHS FOR TOP BARS IN SLABS AND BEAMS OVER 14" DEEP.

MINIMUM BAR LAPS AS FOLLOWS U.N.O.

#3:1"-4" #4:1"-4" #5:1"-10" #6:2"-7" #7:4"-2" #8:5"-2" #9:6"-4" #10:7"-8" #11:9"-0"

FOR EPOXY COATED BARS, PROVIDE 1.5 TIMES THE INDICATED LAP LENGTH, FOR TOP BARS PROVIDE 1.3 TIMES THE INDICATED LAP LENGTH.

- LAP LENGTH SHALL BE SPECIFICALLY NOTED ON SHOP DRAWINGS WHERE MORE THAN ONE BAR MAKES UP A CONTINUOUS STRING.
- REINFORCING SHALL BE DETAILED IN ACCORDANCE WITH ACI 315.
- ALL REINFORCEMENT BARS SHALL BE FABRICATED IN ACCORDANCE WITH THE LATEST CRSI MANUAL. OF STANDARD PRACTICE AND SHALL BE CLEAN AND FREE OF GREASE AND SCALING RUST,
- 5, PROVIDE HOT/COLD WEATHER PROCEDURES AND PROTECTION IN ACCORDANCE WITH ACI RECOMMENDATIONS AND PROJECT SPECIFICATIONS.
- CONCRETE REINFORCEMENT PROTECTION/CLEAR COVER, U.N.O.: 6.

FOOTINGS: ALL SIDES 3" PIERS: ALL SIDES 3"

- EXTEND ALL PIER STEEL TO PROVIDE STD, HOOK UNDER FOOTING REINFORCEMENT, UNLESS NOTED
- ALL CONCRETE SHALL BE NORMAL WEIGHT (145 PCF) UNLESS NOTED OTHERWISE, ALL CONCRETE SHALL BE COMPOSED OF PORTLAND CEMENT, TYPE VII, IN CONFORMANCE WITH ASTM C 150, FINE AND COARSE AGGREGATE IN CONFORMANCE WITH ASTM C 33, AND WATER IN CONFORMANCE WITH ASTM C 94, EXPOSED EXTERIOR CONCRETE SHALL BE AIR ENTRAINED WITH 6% AIR CONTENT, CONCRETE SHALL HAVE A MEASURED SLUMP OF 4" (CONTRACTOR SHALL PERFORM SLUMP TESTS). IF AN ALTERNATIVE MIX DESIGN IS DESIRED, MIX DESIGN SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL.
- 9. ALL CONCRETE SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION, SPADING OR RODDING TO ENSURE THAT CONCRETE IS THOROUGHLY AND UNIFORMLY DISTRIBUTED WITHIN FORMWORK AND AROUND REINFORCEMENT AND EMBEDDED ITEMS,
- 10. ALL FORMED CONCRETE SURFACES EXPOSED TO VIEW SHALL HAVE A SURFACE FINISH SF-2.0 IN ACCORDANCE WITH ACI 301,
- 11. ALL CONCRETE MIXING, TRANSPORTING, PLACING AND CURING SHALL CONFORM WITH THE LOCAL BUILDING CODE REQUIREMENTS AND THOSE OF THE FOLLOWING STANDARDS (LATEST EDITION);

"ACI 318, BUILDING CODE REQUIREMENTS FOR REINFORCED CONC."

"ACI 315, DETAILS AND DETAILING OF CONCRETE REINFORCEMENT"
"ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BLDGS."

"ACI 307, RECOMMENDED PRACTICE FOR CONCRETE FORM WORK"

- ALUMINUM CONDUIT IS NOT PERMITTED TO BE EMBEDDED IN CONCRETE.
- 13, ALL DOWELS INTO EXISTING CONCRETE OR SOLID MASONRY TO BE EPOXY ANCHORED WITH HILT! HITHY200 ADHESIVE OR APPROVED EQUIVALENT, (UNLESS NOTED OTHERWISE)
- 14. UNLESS NOTED OTHERWISE, ANY EXISTING CONCRETE SURFACE IS TO BE CLEANED AND INTENTIONALLY ROUGHED TO A 1/4" AMPLITUDE AND WETTED PRIOR TO FRESH CONCRETE BEING POURED AGAINST SURFACE.

Attachment D: Indian Preference Law & Indian Preference Vendors **Document 00 73 35 - INDIAN PREFERENCE LAW**

1. GENERAL

1.1. REQUIREMENTS

- A. The Contractor is contractually obligated to abide by the Oneida Code of Laws, Title 5. Business Chapter 502 Indian Preference in Contracting (aka: Oneida Indian Preference Law).
- B. Per Article 502.9 of the law, the Contractor shall execute a compliance agreement with the Indian Preference Office.
- C. The Oneida Indian Preference Law and Compliance Agreement documents are included below.

END OF 00 73 35 - INDIAN PREFERENCE LAW

ONEIDA INDIAN PREFERENCE LAW and COMPLIANCE AGREEMENT DOCUMENTS FOLLOW

(Insert Oneida Indian Preference Law and Compliance Agreement)

Document 00 22 01 – INDIAN PREFERENCE VENDORS

2. GENERAL

2.1. INDIAN PREFEENCE VENDORS

- A. The Certified Indian Owned Businesses on the list following this section, will be notified of the project and can submit sub-bids to the General Contractors for portions of the Work.
- B. If Certified Indian Owned Businesses wish to bid as a General Contractor, they are still required to get sub-bids from other Certified Indian Owned Businesses.
- C. The Oneida Nation will notify the Certified Indian Owned Business List, informing them of the project and providing them a listing of the invited General Contractors or the listing of current plan holders on public bid projects.
 - 1. General Contractors shall still contact Certified Indian Owned Businesses to attempt to get bids.
- D. Comparison of Certified Indian Owned Business bids to non-Indian owned business bids will be made during the post-bid evaluation, at percentages denoted in the Oneida Indian Preference in Contracting Law.
- E. For questions regarding the Certified Indian Owned Business list, please contact:

Travis J. Wallenfang – Indian Preference Coordinator

Division of Public Works P.O. Box 365 Oneida, WI 54155

E-Mail: twallen1@oneidanation.org

END OF 00 22 01 – INDIAN PREFERENCE VENDORS

INDIAN PREFERENCE DEPARTMENT – CERTIFIED INDIAN OWNED BUSINESS LIST FOLLOWS

Insert list

Attachment E

Document 00 31 43 - PERMIT FEE SCHEDULE

3. GENERAL

3.1. PERMITS

- A. Permits are required for this project. All required building and other permits shall be obtained by the Contractor before beginning construction.
- B. All applicable building and other permits shall be obtained by the Contractor from the following.
 - 1. Permits for Work within the property boundaries shall be obtained from the Oneida Zoning Department.
 - 2. Permits for Work outside of the property boundaries shall be obtained from the municipality having jurisdiction.
- C. For questions regarding the Oneida Zoning Department Permit Fee Schedule, please contact:

Troy Parr – Zoning Administrator N7332 Water Circle Place Oneida, WI 54155 PH: 920-869-4529

FAX: 920-869-1610 tparr@oneidanation.org

END OF 00 31 43 – PERMIT FEE SCHEDULE

ONEIDA ZONING DEPARTMENT – PERMIT FEE SCHEDULE FOLLOWS



ONEIDA ZONING DEPARTMENT PERMIT FEE SCHEDULE

Adopted By Oneida Business Committee Resolution - March 13, 2013

Residential / UDC / R1, R2

SPS 320 - 325

General Construction *	\$ 25.00	
Electrical	\$ 25.00	
Plumbing	\$ 25.00	
HVAC	\$ 25.00	
Fire Suppression System	\$ 25.00	
Land Use	\$ 25.00	(Oneida Law 69.10-1)

Permits Not Required for Replacement of non-structural items (following are examples), A permit taken out for work under this section has no fees attached.

Windows Flooring
Soffit / Fascia Driveway
Siding Toilets / Sinks
Re shingling roof Concrete Patios

Water Heater

Emergency Furnace Replacement

Furnace is installed

Contractor reports installation to Oneida Zoning

Contractor submits affidavit to Oneida Zoning (Emergency Furnace Affidavit) \$25.00 payment (HVAC FEE)

PUD (Oneida Law 69.9)

Filing Fee \$500.00 Deposit **

Razing Permit (Oneida Law 66.20)

R-1 \$25.00 Agriculture \$75.00 Commercial \$200.00

Includes Pools, Fences, Accessory Buildings

** As determined by the Zoning Administrator on a project by project basis

1