ROCK COUNTY, WISCONSIN



GENERAL SERVICES COMMITTEE TUESDAY, NOVEMBER 2, 2021 – 7:30 A.M. SOUTHERN WISCONSIN REGIONAL AIRPORT ENDEAVOUR CONFERENCE ROOM 1716 W. AIRPORT RD. JANESVILLE, WI 53546

<u>Agenda</u>

- 1. Call to Order
- 2. Approve Agenda
- 3. Public Comment
- 4. Approval of Minutes October 19, 2021
- 5. Review of payments
- 6. Transfers
- 7. Resolutions and Committee Action
 - Retaining Edge Consulting Engineers Inc. for Consulting Services for the New 911 Communications Tower
 - B. Retaining SGTS Inc. for Professional Services for the Installation, Integration, and Commissioning of the Security Controls Equipment at the Health Department Building
- 8. Reports, Updates, Discussion and Possible Action
 - a. Approval to partner with Alliant Energy for the installation of a 1.4 megawatt solar array
 - b. Approval to purchase security equipment for the Health Department
 - c. Dr. Daniel Hale Williams Rock County Resource Center updates
 - i. Approval of Change Orders
 - ii. Sound issues
 - d. 911/IT renovation updates
 - i. Schedule

- e. District Attorney renovation updates
 - i. Schedule
- 9. Communications, Announcements, and Information
- 10. Tour of Airport
- 11. Adjournment

The County of Rock will provide reasonable accommodations to people with disabilities. Please contact us at 608-757-5510 or e-mail <u>countyadmin@co.rock.wi.us</u> at least 48 hours prior to a public meeting to discuss any accommodations that may be necessary.



GENERAL SERVICES COMMITTEE Minutes – October 19, 2021

<u>Call to Order</u>. Chair Potter called the meeting of the General Services Committee to order via Zoom at 7:30 A.M., on Tuesday, October 19, 2021.

Committee Members Present: Supervisors Potter, Wilson, Homan, Fox, and Brien.

Committee Members Absent: None.

Staff Members Present: Josh Smith, County Administrator; Randy Terronez, Assistant to the County Administrator; Terri Carlson, Risk Manager; Brent Sutherland, Facilities Director; and Dave Froeber and Mike Parille, Facilities Superintendents.

Others Present: Brian Zobel, UW Whitewater at Rock County.

<u>Approval of Agenda</u>. Supervisor Fox moved approval of the agenda, second by Supervisor Wilson. ADOPTED.

Public Comment. None.

<u>Approval of Minutes – October 5, 2021.</u> Supervisor Wilson moved approval of the minutes of October 5, 2021 as presented, second by Supervisor Brien. ADOPTED

Review of Payments. None.

Transfers. None.

Resolutions and Committee Action

Awarding Contract for the Purchase of a Backup Radio Repeater System for Public Works

"NOW, THEREFORE, BE IT RESOLVED, that the Rock County Board of Supervisors duly assembled this _____ day of ______, 2021 does hereby approve and authorize awarding a contract in the amount of \$ 29,000 to General Communications of Madison WI, for the purchase of Backup Radio Repeater systems equipment for the Department of Public Works."

Supervisor Brien moved approval of the above resolution, second by Supervisor Homan. ADOPTED.

Reports, Updates, Discussion, and Possible Action

Future meetings – In-person versus continuing with Zoom

Supervisor Fox expressed his support for meeting in-person and offered the use of the Airport Conference Room. Supervisor Wilson advocated for utilizing multiple County facilities for meeting spaces. Supervisor Fox asked that the committee meet only when there are action items on the agenda. Supervisor Wilson inquired whether the meeting could be virtual for shorter agendas with no action items. Chair Potter will work with Brent to schedule future meetings.

Dr. Daniel Hale Williams Rock County Resource Center updates

Approval of Change Order

None.

Punchlist items progress

Brent informed the committee that they have dates for the last-minute furniture items. Cullen is fixing the drywall seams soon. Workers in the DWRC have been noticing that sounds are still traveling, so they are working to manage and remedy. The railing around the rocks in the rotunda will be installed in 3 weeks. They are also working on installing duress alarms and holding trainings for them.

911/IT renovation updates

<u>Schedule</u>

Brent informed the committee that they will be started with the 911 renovation first. They will be meeting today to review surveys to make sure that they have a full-site survey so that they know where all utilities are located. 911 will remain in operation during the whole process.

District Attorney renovation updates

Schedule

Brent informed the committee that phase 1 is scheduled to be complete at the end of December. Phase 2 should be done at the end of April 2022.

<u>Furniture</u>

Brent informed the committee that the furniture is delayed until March.

Review and Discussion of 2022 Recommended Budget

Josh Smith highlighted projects and requests that were not recommended for 2022. He explained that he recommended the Administrative Assistant position for Facilities Management. Supervisor Wilson asked for an update on the County Board room audio-visual technology project. Josh responded that there will be a live feed of what is being presented at County Board meetings to go out to the YouTube feed. Brent added that 98" monitors will be added for presentations in the County Board room. Randy explained that one of the monitors will display the voting board.

Communications, Announcements, and Information

None.

Adjournment. Supervisor Wilson moved adjournment at 8:08 A.M., second by Supervisor Homan. ADOPTED.

Respectfully submitted,

Haley Hoffman Office Coordinator

NOT OFFICIAL UNTIL APPROVED BY COMMITTEE

RESOLUTION NO.

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16 17 AGENDA NO._____

RESOLUTION ROCK COUNTY BOARD OF SUPERVISORS

The General Services Committee INITIATED BY

The General Services Committee SUBMITTED BY



Brent Sutherland- Director of Facilities Management DRAFTED BY

October 26, 2021 DATE DRAFTED

Retaining Edge Consulting Engineers Inc. for Consulting Services for the New 911 Communications Tower

WHEREAS, the current 911 communication tower is attached to the Pinehurst building that is scheduled to be demolished in 2023; and,

WHEREAS, a conditions assessment was completed on the current 193ft tower to see if it could be moved and reused which will allow for the completion of the facilities master plan projects; and,

WHEREAS, the conditions assessment showed the condition of the current tower will require several repairs and upgrades to this tower; and,

WHEREAS, the cost to reuse the existing tower with the required repairs and upgrades to the new location would exceed the cost of a new tower and therefore it is recommended we build a new tower verses reusing the current tower; and,

WHEREAS, Edge Consulting Engineers Inc. from Prairie Du Sac, Wisconsin will be providing the consulting services for design, specifications, and construction management for the installation of a new Communications tower in the amount of \$50,200.00; and ,

NOW, THEREFORE, BE IT RESOLVED by the Rock County Board of Supervisors duly assembled
this _______ day of ______, 2021, that a contract for engineering services be
awarded to Edge Consulting Engineers Inc, of Prairie Du Sac, WI, in the amount of \$ 50,200.00.

Respectfully submitted,

GENERAL SERVICES COMMITTEE

Robert Potter, Chair

Tom Brien, Vice Chair

Brent Fox

William Wilson

Dave Homan

Retaining Edge Consulting Engineers Inc. for Consulting Services for the New 911 Communications Tower Page 2

LEGAL NOTE:

The County Board is authorized to take this action pursuant to secs. 59.01 and 59.51, Wis. Stats. Professional services are not subject to bidding requirements of sec. 59.52(29), Wis. Stats.

s/Richard Greenlee

Richard Greenlee Corporation Counsel

ADMINISTRATIVE NOTE:

Recommended.

/s/Josh Smith

Josh Smith County Administrator

FISCAL NOTE:

The Pinehurst project is being funded by a mix of sales tax revenue and debt service.

/s/Sherry Oja

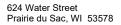
Sherry Oja Finance Director

Executive Summary

Retaining Edge Consulting Engineers Inc. for consulting services for the new 911 Communications tower

The resolution before you will give authorization to contract with Edge Consulting Engineers Inc. for professional services required to design, draft specifications and construction management services for installation of a new 911 Communications Tower.

The current communication tower will have to be relocated to allow for the demolition of the pine hurst building. A condition assessment was performed on the current tower to determine if we should move the current one to a new location or just build a new tower. The assessment indicated it to be more cost effective to build a new tower verses move the existing.



608.644.1449 phone 608.644.1549 fax www.edgeconsult.com



June 15, 2021

Brent Sutherland Director – Facilities Management Rock County 51 S Main St. Janesville, WI 53545

SUBJECT: TOWER CONDITION ASSESSMENT & MAINTENANCE INSPECTION ROCK CO. (SHERIFF'S OFFICE TOWER) ASR#: NONE LAT/LONG: N42° 43' 39.7", W89° 01' 49.3" JANESVILLE, WI

Mr. Sutherland:

Per your request Edge Consulting Engineers, Inc. (Edge) has completed a condition assessment and TIA/EIA tower maintenance inspection of the existing 193' self-support tower owned by Rock County and located at the Rock County Sheriff's Office in Janesville, Wisconsin.

Both the procedures of the assessment/inspection and this report were completed per the requirements of <u>Annex J: Maintenance and Condition Assessment Procedures</u> of the TIA/EIA-222-G standard. The standard recommends routine inspection of self-support towers on a maximum of 5-year intervals. Shorter intervals are recommended for Class III (Public Safety) Structures and after severe wind and/or ice storms or other extreme conditions.

The following limitations and/or exceptions should be noted for this inspection:

• Subsurface items were not excavated for inspection or otherwise verified

Please refer to the following additional attachments for more detailed information regarding this inspection:

- 1. Site Map
- 2. Inspection Photos
- 3. TIA-222-G Maintenance Inspection Checklist
- 4. Tower Plumb & Twist Tables
- 5. As-Built Tower Loading Table
- 6. Ground Resistance

#30926 Rock Co. (Sheriff's Office Tower) Janesville, Wisconsin

MAINTENANCE ISSUES LIST:

Based upon the field inspection conducted on <u>June 10, 2021</u> the following issues were identified:

ltem #	Category	Issue	Status & Recommendation	Photo #
1	Tower Climbing Facilities	Safety Climb Missing	A safety climb cable was not installed on the tower. Recommended to install a safety climb system for future work on the tower.	1
2	Structure Finish	Galvanizing Condition	Entire tower galvanizing is starting to show signs of wear. In Particular, cross members from 160' to 165' on face A-B and face B-C where rust/corrosion is present on crossmembers. It is recommended that all tower members exhibiting rust/corrosion be cleaned and coated with cold galvanizing compound.	2
3	Structure Finish	Tower Hardware	Rust/Corrosion is currently present on nearly all tower member hardware. It is recommended that all tower member hardware be replaced within the next 3-5 years.	3
4	Mount Finish	Antenna Mount	Rust/corrosion is present on antenna mount for dipole located on leg B at 189.2' (A2). It is recommended that antenna mount be cleaned of all rust/corrosion and coated with cold galvanizing compound.	4
5	Mount Finish	Antenna Mount	Rust/corrosion is present on antenna mount for grid dish located on leg C at 103.0' (A17). It is recommended that antenna mount be cleaned of all rust/corrosion and coated with cold galvanizing compound.	5
6	Coax	Coax Mounting	All antenna coax are mounted to leg B and leg C via tap and zip-ties. It is recommended that a waveguide ladder be installed and coax be mounted to tower via snap-ins.	6
7	Coax	Kellum Grip	Coax Kellum grip for omni located on leg C at 177.9' (A3) is improperly installed and supported on tower. It is recommended that an approved mounting clamp be installed to properly support Kellum grip/coax and that the Kellum grip be taped at bottom.	7
8	Coax	Coax Mounting	Coax Kellum grip is not taped at bottom for dipole located on leg B at 189.2' (A2). It is recommended that Kellum grip be taped at base.	8

It is the professional opinion of Edge Consulting Engineers, Inc. that the above listed items be addressed.

TOWER PLUMB & TWIST:

As part of the maintenance inspection procedures, a tower plumb and twist evaluation was conducted in accordance with the current TIA-222 standards. Based on our measurements, **the tower was found to be within acceptable tolerances.** See attached tower plumb and twist forms for further details.

ANTENNA INVENTORY:

An inventory of all installed antennas and lines was completed as part of this inspection. An As-Built Tower Loading Table summarizing this information has been attached to this report.

GROUND RESISTANCE:

The ground system was tested using the fall-of-potential testing method. The site resistance to earth measurement should be taken at the point where the auxiliary potential electrode appears to be outside of the effective resistance areas of both the ground electrodes under test as well as the auxiliary current electrode. Typically, this region is graphically displayed as a plateau along the fall-of-potential plot. Specific detail on the test results, calculations, and plot have been attached as the Ground System Inspection Form. **Based on these results, the ground system was observed to plateau at approximately 1.0 Ohms. In general, systema which that achieve a resistance of 5 ohms or less are considered acceptable.**

In addition, all bonded ground leads extending above grade are tested using a clamp-on resistance tester which measures the continuity of that specific ground lead. This test assures that the specific ground lead under test is properly bonded to the ground ring below as well the object it is intended to ground. All ground leads associated with the tower were tested and were found to be properly bonded.

We appreciate the opportunity to work with you on this project. If you have any questions and/or concerns regarding this report please feel free to give us a call.

RECOMMENDATIONS:

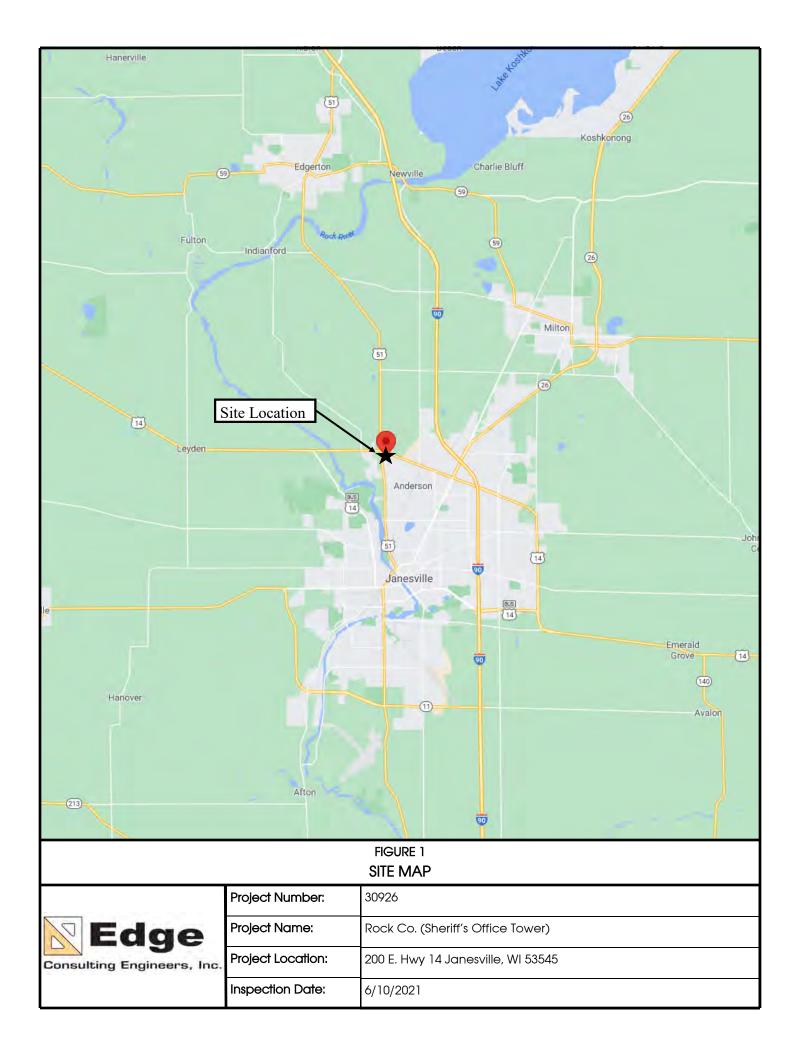
As part of this condition assessment, we were asked to provide our recommendations regarding the potential for reuse of this tower in an alternate location. Based on our observations, the tower does appear to be structurally suitable for reuse. However, the overall galvanization system of the tower members is starting to fail and will likely require ongoing maintenance going forward. In addition, it is recommended that all tower member hardware be replaced if the tower is re-erected in an alternate location. Given the costs associated with complete dismantling, re-erection and ongoing galvanizing system maintenance, it is our opinion that re-use of this tower is likely cost prohibitive.

Sincerely,

Edge Consulting Engineers, Inc.

luco S.H

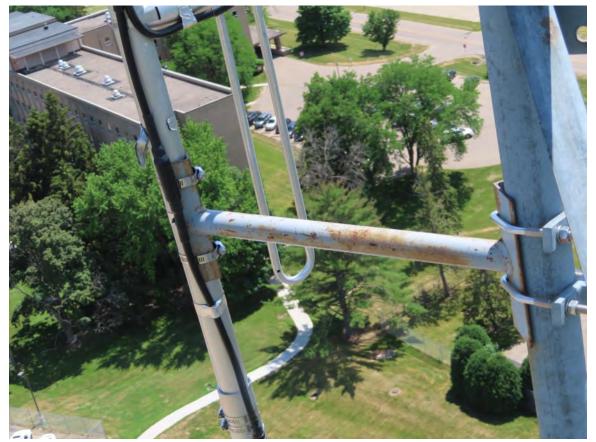
Lucas Scott Engineering Technician



















30926 Rock Co. (Sheriff's Office Tower) - Condition Assessment June 10, 2021



9.JPG







30926 Rock Co. (Sheriff's Office Tower) - Condition Assessment June 10, 2021



13.JPG













Edge		JANC			IA-222-H ONDITION ASSESMEI	
Consulting Engineers, I	inc.					American National Standards Institute Advancing GLOBAL COMMUNICATIONS
	30926 Rock Co. (Sheriff's Office Towe 200 E US 14 Janesville, WI 53545	er)			Date of Inspection: Inspected By:	
Tower Height/Type:					Weather Conditions:	
Tower Manufacturer:					Ambient Temperature :	
Tower Owner:					Wind Speed/Direction:	
				то	WER	
Category	Item	Pass	Fail	NA	Issue	Comments/Recommendations
	Damaged members (legs/bracing)	X				
	Loose members	X				
	Missing members	Х				
	Loose and/or missing bolts and/or nut locking devices.	X				
Structure Condition	Visible cracks in welded connections including cracks underneath canister mounts for flag poles and other similar connections.	x				
	Pole flange and base plate cracks visible in base metal or at ends of plate stiffeners (cracks in base metal may only be visible inside surface of pole).	x				
	Paint and/or galvanizing condition.		x		Entire tower galvanizing shows signs of wear specifically, cross members from 160' to 165' on face A-B and face B-C where corrosion is present on crossmembers.	It is recommended that all corrosion be removed from crossmembers and cold galvanizing compound be installed.
Finish	Rust and/or corrosion condition including mounts and accessories.		x		Entire tower galvanizing shows signs of wear specifically, cross members from 160' to 165' on face A-B and face B-C where corrosion is present on crossmembers.	It is recommended that all corrosion be removed from crossmembers and cold galvanizing compound be installed.
	FAA or ICAO color marking conditions.			Х		
	Water collection in members (to be remedied, e.g., unplu drain holes, etc.)	x				
	Conduit, junction boxes, and fasteners (weather tight and secure).			Х		
	Drain and vent openings (unobstructed).			Х		
	Wiring condition			Х		
Lighting (External Components)				X		
	Bulb condition			Х		
	Contollers (Flasher, Photo Control, Alarms).			Х		
	Obstructions to lighting system.			Х		
	Connections	X				
Grounding	Corrosion	х				
		X				
	Lightning protection					
Structure Alignment	Tower Plumb	X				See the attached tower plumb calculations for details.
	Tower Twist	X				See the attached tower twist calculations for details.
Itom Deceriptics	Specification	Pass	Fail		ENANCES Deviation	Comments/Recommendations
Item Description	Proper tie-back of microwave dishes.	Pass X	Fall	NA		Comments/Recommentations
	Damage to supporting structure at					
	connections.	X				
Antenna & Mount Condition	Defects, deformations, loose, missing members, etc.	X				
	Loose or missing hardware.	X				
	Condition of antenna covers.	X				
	Obstructions to climbing path or safety climb systems.		x		A safety climb cable was not installed on the tower.	Recommended to install a safety climb system for future work on the tower.

	Flanges, seals, dents, jacket damage, grounding, etc.	X				
Feed Line & Cable Condition	Properly secured/supported on the structure and mount.		x		Antenna A3 coax is not properly installed into kellum grip and antenna A2 and A3 kellum grips are not taped at bottom.	Recommend coax be properly supported and kellum grip be taped.
	Hanger condition (snap-ins, bolt-on, kellum grips, etc.		x		Antenna A3 coax is not properly installed into kellum grip and antenna A2 and A3 kellum grips are not taped at bottom.	Recommend coax be properly supported and kellum grip be taped.
	Secured to structure (waveguide ladder)	X				
	Condition	X				
Additional Appurtenances (Ice	Obstructions to climbing path or safety climb systems.	x				
shields, walkways, platforms, climbing facilities, sensors,	Defects, deformations, loose, missing members, etc.	X				
floodlights, etc.)	Loose or missing hardware.	x				
	Secured to structure.	X				
	Cracking and chipping.	X				
	Cleanliness of insulators.	x				
Insulators (Base insulator, Am detuning kits, fiberglass rods,	Spark gaps.	X				
porcelain insulator, non- metallic guys, etc.)	Insolation transformer.	X				
·····	Bolts and Connections.	X				
	Delamination, UV degradation, rod slippage.	x				
	ļ			GUYED	TOWERS	
Item Description	Specification	Pass	Fail	NA	Deviation	Comments/Recommendations
Guyed Wires	Strand Condition (corrosion, breaks, nicks, kinks, etc.			Х		
	Turnbuckle thread past body.			Х		
	Turnbuckle secured with safety cable or equivalent.			Х		
	Turnbuckle cracks, defects, damage, etc.			Х		
	Cable thimbles			Х		
	Ice clips			Х		
	Cable clamps applied properly and bolts tight.			Х		
Guy Hardware Conditions	Wire serving			Х		
	Slippage or damage strands.			Х		
	Deadend grips - fully wrapped, end sleeve/ice clips (on anchor end)			Х		
	Poured sockets - signs of separation, twisting, etc.			Х		
	Shackles, bolts, pins and cotter pins.			Х		
	Inspect tension rods/anchor rods welded to fan plates for fatigue cracks.			Х		
Guy Tensions	Existing tensions within +/- 10% of the initial design tension for guys up to and including 1 in. diameter and +/- 5% for guys greater than 1 in. diameter.			Х		
	Settlement, movement or earth cracks.			Х		
	Grade sloped away from anchors.			Х		
	Anchor shaft condition below grade.			Х		
Guyed Anchors	Corrosion control measures (galvanizing, coating, concrete encasement, cathodic protection systems, etc.).			Х		
	Anchor heads above grade, clear of vegetation, obstructions, etc. and turnbuckles free to articulate.			Х		

			CON	CRETE F	OUNDATIONS	
Item Description	Specification	Pass	Fail	NA	Deviation	Comments/Recommendations
	Settlement, movement or earth cracks.	Х				
Ground Condition	Erosion	Х				
	Site condition (standing water, drainage, trees, etc.)	X				
	Top and bottom base plate nuts tight.	X				
	Nut locking device.	X				
Anchorage Condition	Grout condition	X				
	Anchorages	Χ				
	Anchor rods	X				
	Cracking, spalling, or splitting.	Χ				
Concrete Condition	Chipped or broken concrete.	X				
Concrete Condition	Honeycombing	Χ				
	Low spots to collect moisture.	X				
			ADD	ITIONAL		
Entire tower galvanizing shows sig crossmembers and cold galvanizin		to 165' d	on face A	-B and fa	ace B-C where corrosion is present on c	rossmembers. It is recommended that all corrosion be removed from



193

60

144.0

			TOWE	r plu					ION - Alcul			AR TO	WER			
Project #:	Project #: 30926 Date: 6/1			6/10/2021		-	Tower Type: Self-Support				Tov	ver Owner:	Rock Cour	nty		
Site Name:	Rock Co. (S	Sheriff's Offic	e Tower)	Wind:	5 MPH		Тс	ower Height:	193				Client:	Rock Cou	nty	
Location:	200 E US 1	4 Janesville,	, WI 53545	Temp:	93		То	wer Vendor:	Rohn			In	spector(s):	RDL & MJ	V	
	FIELD MEASUREMENTS CALCULATIONS															
Sighted Elev.				UP 2 - LEO	G B SETUP 3 - L			G C	TWIST			0	UT-OF-PL	.UMB		
On Tower (feet)	Width (inches)	Distance 1 To Tower (feet)	Measured Angle 1 (seconds)	D1 (inches)	Distance 2 To Tower (feet)	Measured Angle 2 (seconds)	D2 (inches)	Distance 3 To Tower (feet)	Measured Angle 2 (seconds)	D3 (inches)	d (inches)	e (inches)	"Twist" a (°)	x (inches)	y (inches)	"Plumb Dist." r (inches)
0	-	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	0.000
60	180	144.0	-86	-0.720	309.0	-25	-0.449	432.0	28	0.704	-0.155	-0.001	-0.086	-0.666	-0.565	0.873
100	132	144.0	-84	-0.704	309.0	-11	-0.198	432.0	47	1.181	0.093	0.001	0.070	-0.796	-0.797	1.127
140	84	144.0	-85	-0.712	309.0	-18	-0.324	432.0	49	1.232	0.065	0.001	0.077	-0.898	-0.777	1.188
180	60	144.0	-161	-1.349	309.0	-79	-1.420	432.0	91	2.287	-0.161	-0.005	-0.266	-2.140	-1.188	2.448

432.0

102

2.564

-0.001

-0.019

-2.165

-1.414

2.586

-0.031

30926_Rock_Co._Tower_PlumbTwist_Verification

-1.433

-171

309.0

-66

-1.186



TOWER PLUMB & TWIST VERIFICATION - TRIANGULAR TOWER RESULTS

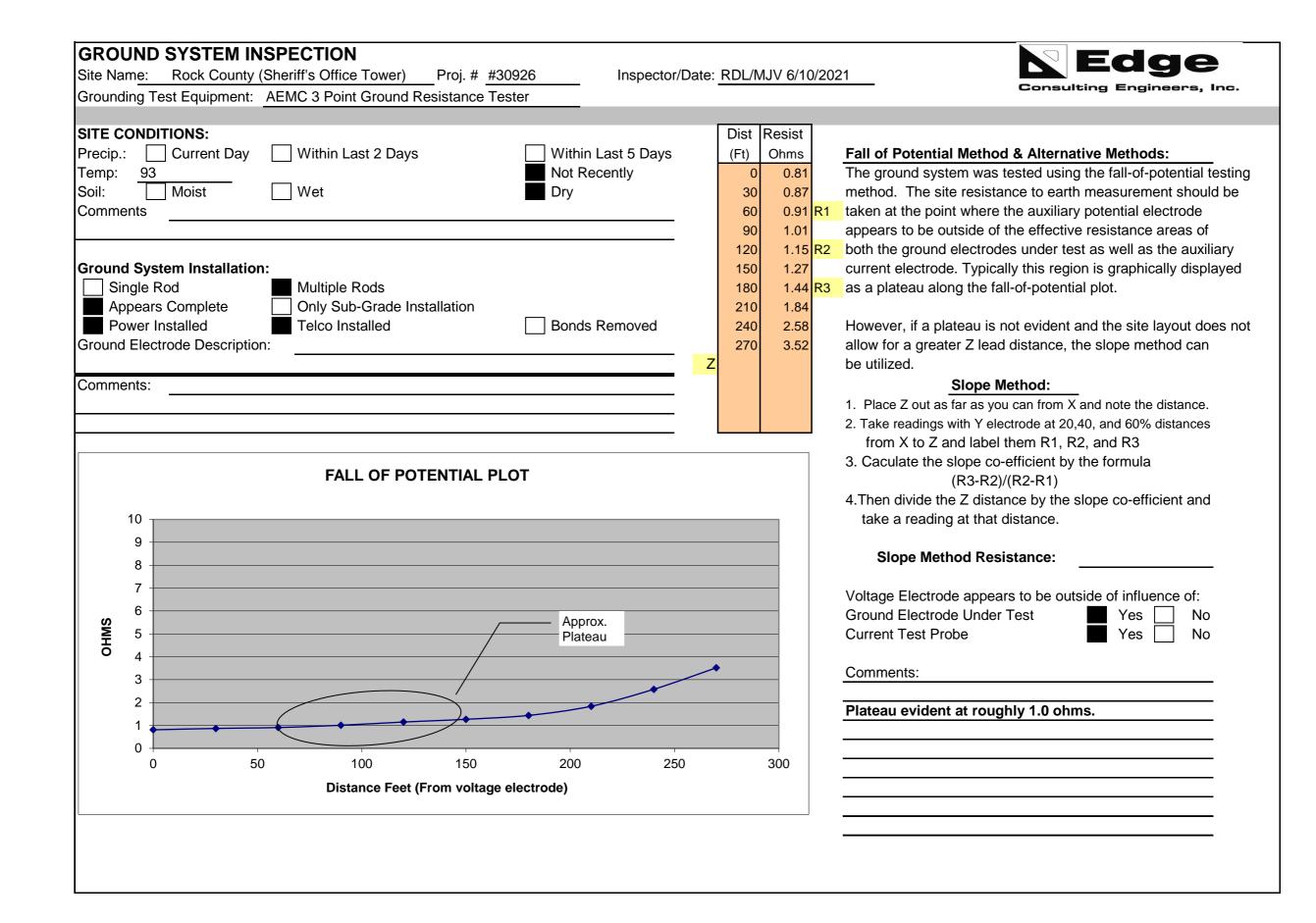
	NEODEIO										
Project #:	30926	Date:	6/10/2021	6/10/2021		Self-Support		Tower Owner:	Rock County		
Site Name:	Rock Co. (Sheriff's Office Tower)	Wind:	5 MPH		Tower Height: 193			Client: Rock County			
Location:	200 E US 14 Janesville, WI 53545	Temp:	93		Tower Vendor ID:	ower Vendor ID: Rohn			Inspector(s): RDL & MJV		
	TOW	ER OUT-OF-	PLUMB RESULTS	6			TOW		SULTS		
Sighted Elev. On Tower (feet)	Plumb Distance From Tower Base Centerline (inches)	Plumb Distance From Previous Sighted Elevation (inches)	Max. Allowable Plumb Distance From Previous Sighted Elevation (inches)	Tolerance Utilization (%)	Analysis Outcome (Pass/Fail)	Twist Angle from Tower Base (°)	Twist Angle from Previous Sighted Elevation (°)	Max. Allowable Twist Angle from Previous Sighted Elevation (°)		Analysis Outcome (Pass/Fail)	
0	-	-	-	-	-	-	-	-	-	-	
60	0.873	0.873	1.8	48.51%	Pass	-0.086	-0.086	3.000	2.86%	Pass	
100	1.127	0.253	1.2	21.11%	Pass	0.070	0.156	2.000	7.79%	Pass	
140	1.188	0.061	1.2	5.09%	Pass	0.077	0.007	2.000	0.35%	Pass	
180	2.448	1.260	1.2	105.04%	Fail	-0.266	-0.343	2.000	17.14%	Pass	
193	2.586	0.138	0.4	35.36%	Pass	-0.031	0.235	0.650	36.17%	Pass	
Whole Tower	2.586	2.586	5.79	44.66%	Pass	-0.031	-0.031	5.000	0.62%	Pass	
		Plumb Req	uirements:			Twist Requirements:					
	The horizontal distance between the vertic distance between the two elevations.	al centerlines at an	y two elevations shall not	exceed 0.25 p	ercent of the vertical		•	levations shall not exercted and the structure shall	-		

Top of Base Plate = 879.3

		#30926 ROCK C	0. (Shei	riff's Office Tower)	AS BU	ILT TO	WER	LOADI	NG JU	INE 10), 2021		
ANTENNA ID	ANTENNA TYPE	(QTY.) ANTENNA MODEL SIZE & WEIGHT	TOWER LEG	ANTENNA MOUNT SIZE & WEIGHT	MOUNT HEIGH T (T.O.C.)	C/L HEIGHT (T.O.C.)	C/L ELEV. (NAVD 88)	ANTENNA AZIMUTH	TILT (+/-)	Tx LINE ID	FREQUENC Y (MHz)	OWNER USE	NOTES
A1	Dipole	(1) Unknown 10'	- A -	Tight Mount	191.2'	194.5'	1073.8'	24.2°					
A2	Dipole	(1) Unknown 20'	- В -	Stand-Off	179.3'	189.2'	1068.5'	121°					
A3	Omni	(1) Unknown 20'	- c -	Stand-Off	177.6'	177.9'	1057.2'	332.8°					
A4	Dipole	(1) Unknown 10'	- В -	Stand-Off	164.6'	169.2'	1048.5'	207.6°					
A5	Dipole	(1) Unknown	- C -	Stand-Off	162.5'	172.5'	1051.8'	211.2°					
A6	Microwave Antenna	(1) Unknown	- C -	Tight Mount	165.8'	165.8'	1045.1'	238.9°					
A7	Microwave Antenna	(1) Unknown	- C -	6' Mast Standoff	149.8'	149.4'	1028.7'	186.2°					
A8	Omni	(1) Unknown 20'	- В -	Stand-Off	137.0'	148.0'	1027.3'	118.5°					
A9	Rectangle Dish	(1) Mimo Max	- C -	Tight Mount	133.8'	133.8'	1013.1'	237.3°					
A10	Microwave Antenna	(1) Unknown	- В -	Tight Mount	128.6'	128.6'	1007.9'	145°					
A11	Omni	(1) Unknown 5'	- C -	Stand-Off	122.0'	124.6'	1003.9'	257.7°					
A12	Microwave Antenna	(1) Unknown	- В -	Tight Mount	123.5'	123.5'	1002.8'	117.4°					
A13	Microwave Antenna	(1) Unknown	- c -	Tight Mount	117.4'	117.4'	996.7'	176.5°					
A14	Omni	(1) Unknown 6'	- В -	Stand-Off	112.5'	115.5'	994.8'	145.3°					
A15	Microwave Antenna	(1) Unknown	- C -	Tight Mount	110.2'	110.2'	989.5'	228.2°					
A16	Omni	(1) Unknown 8'	- В -	Stand-Off	103.0'	106.6'	985.9'	145.3°					
A17	Grid Dish	(1) Unknown	- c -	Tight Mount	103.0'	103.0'	982.3'	273.7°					
A18	Grid Dish	(1) Unknown	- c -	Tight Mount	96.0'	96.0'	975.3'	238°					
A19	Omni	(1) Unknown 8'	- C -	Stand-Off	82.3'	86.3'	965.6'	113°					
A20	Omni	(1) Unknown 1.5'	- В -	Stand-Off	81.9'	82.6'	961.9'	261.9°					
A21	Omni	(1) Unknown 6'	- c -	Stand-Off		77.7'	957.0'	260.9°					
A22	Yagi	(1) Unknown	- В -	Stand-Off		75.4'	954.7'	138°					
A23	Omni	(1) Unknown 8'	- C -	Stand-Off	64.9'	68.9'	948.2'	266.8°					
A24	Omni	(1) Unknown 8'	- В -	Stand-Off	64.5'	68.5'	947.8'	144.9°					
A25	Yagi	(1) Unknown	- c -	Tight Mount	53.3'	53.3'	932.6'	213.5°					
A26	Yagi	(1) Unknown	- C -	Tight Mount	46.3'	46.3'	925.6'	251.85°					

See coax configuration chart.





Edge - A/E Services Rock Co., WI

Site:	Item:	Description:	Fee:	Notes:
1	Sheriff	's Office Tower - New XXX' Self-Support Tower		
	1	Field Inspection, Data Collection & Surveying	\$3,800	В
	2	NEPA Compliance Documentation	\$3,000	С
	3	NEPA Expenses (DNR Consultation/Tribal/Public Notices)	\$1,000	D
	4	Archeological Survey	\$2,600	Е
	5	Architectural/Visual APE Study	\$2,000	Р
	6	Geotechnical Investigation - Self-Support Tower	\$4,000	
	7	FAA Determination & FCC ASR Registration	\$1,300	
	8	Zoning & Construction Drawings	\$5,500	
	9	Construction Staking	\$1,400	F,G
	10	Tower Foundation Inspection	\$2,400	
	11	Punch List Inspection (w/ Tower Climb)	\$2,900	F
	12	Final Inspection (No Tower climb)	\$1,400	F
	13	As-Built Drawings	\$1,400	J
		Site Sub-Total:	\$32,700	
2	Overal	l Project		
	1	Design Phase Project Management (1 Site)	\$2,500	0
	2	Specs, Bid Docs & Public Bid Process - (1) Bid Package	\$5,000	J
	3	Contract Administration (1 Contract)	\$2,500	K
	4	Construction Phase Project Management (1 Site)	\$2,500	0
		Sub-Total:	\$12,500	-
		Project Total:	\$45,200	
3	Option	al Services	<i>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</i>	
	1			
		Iutility Coordination	\$1.800	н
1		Utility Coordination Pre-Bid Meeting (1 meeting)	\$1,800 \$1.600	H
	2	Pre-Bid Meeting (1 meeting)	\$1,600	H
	2 3	Pre-Bid Meeting (1 meeting) Pre-Construction Meeting (1 meeting)	\$1,600 \$1,600	
	2	Pre-Bid Meeting (1 meeting)	\$1,600	H M
Notes	2 3 4	Pre-Bid Meeting (1 meeting) Pre-Construction Meeting (1 meeting)	\$1,600 \$1,600	
Notes:	2 3 4	Pre-Bid Meeting (1 meeting) Pre-Construction Meeting (1 meeting) New Tower Submittal Structural Analysis (Each Tower) Includes Property/Boundary, lease parcel survey w/ 1A Certificate. Title reportion	\$1,600 \$1,600 \$2,000	М
Notes	2 3 4	Pre-Bid Meeting (1 meeting) Pre-Construction Meeting (1 meeting) New Tower Submittal Structural Analysis (Each Tower)	\$1,600 \$1,600 \$2,000	М
Notes	2 3 4 : A	Pre-Bid Meeting (1 meeting) Pre-Construction Meeting (1 meeting) New Tower Submittal Structural Analysis (Each Tower) Includes Property/Boundary, lease parcel survey w/ 1A Certificate. Title repor Others at the project outset.	\$1,600 \$1,600 \$2,000	М
Notes	2 3 4 : A B	Pre-Bid Meeting (1 meeting) Pre-Construction Meeting (1 meeting) New Tower Submittal Structural Analysis (Each Tower) Includes Property/Boundary, lease parcel survey w/ 1A Certificate. Title repor Others at the project outset. Includes topographic survey w/ 1A Certificate. No boundary/property survey.	\$1,600 \$1,600 \$2,000 t to be provide t to be provide	M ed by d harged
Notes	2 3 4 : A B C	Pre-Bid Meeting (1 meeting) Pre-Construction Meeting (1 meeting) New Tower Submittal Structural Analysis (Each Tower) Includes Property/Boundary, lease parcel survey w/ 1A Certificate. Title repor Others at the project outset. Includes topographic survey w/ 1A Certificate. No boundary/property survey. Includes coordination with SHPO, TCNS, DNR, Public Notices, etc NEPA expenses (Public Notices, Database Searches, etc.) do not include cos evironmental or historical studies and/or tribal monitoring during construction. by tribes and other entities shall be billed separately. NEPA fees will be billed	\$1,600 \$1,600 \$2,000 t to be provide t to be provide NEPA fees c on actual incu	M ed by ed harged urred
Notes	2 3 4	Pre-Bid Meeting (1 meeting) Pre-Construction Meeting (1 meeting) New Tower Submittal Structural Analysis (Each Tower) Includes Property/Boundary, lease parcel survey w/ 1A Certificate. Title repor Others at the project outset. Includes topographic survey w/ 1A Certificate. No boundary/property survey. Includes coordination with SHPO, TCNS, DNR, Public Notices, etc NEPA expenses (Public Notices, Database Searches, etc.) do not include cos evironmental or historical studies and/or tribal monitoring during construction. by tribes and other entities shall be billed separately. NEPA fees will be billed cost plus 15%. Archeological survey only. Historical architectural, endangered species or other	\$1,600 \$1,600 \$2,000 t to be provide t to be provide NEPA fees c on actual incu	M ed by ed harged urred

Edge - A/E Services Rock Co., WI Site: **Description:** Item: Fee: Notes: Н Coordinate utility service applications (electric & natural gas) with utility provider(s) on behalf of Client. Fees charged by Utilities are not included and shall be paid directly by Client. Site visits, requested by Utility companies, are not assumed and if required shall be considered an additional expense. L Service not requested or to be compelted by Others. J Assume redline As-Built drawings will be provided to Edge documenting all changes and no field verification is required. Κ Perform inventory of antennas, lines & appurtenances. Service does not include mapping of tower members. L Assumes all required information to complete the analysis are provided (tower & foundation design drawings, geotechnicial report, exisitng tower loading). Modification design for failing structures is not included. Μ Structurally model and analyze submitted tower and tower foundation system design to confirm compliance with design requirements. Ν Costs for tower modification desgin will be determined upon receiving a failing tower structural analysis. 0 Participate in weekly project management calls. Manage sites throughout the project phase. Ρ Recommended to be completed prior to NEPA SHPO submittal due to presence of mapped nearby historic properties. This will save time during the NEPA process.

RESOLUTION NO.

AGENDA NO._____

RESOLUTION ROCK COUNTY BOARD OF SUPERVISORS

The General Services Committee INITIATED BY

The General Services Committee SUBMITTED BY



Brent Sutherland- Director of Facilities Management DRAFTED BY

September 28, 2021 DATE DRAFTED

Retaining SGTS Inc. for Professional Services for the Installation, Integration, and Commissioning of the Security Controls Equipment at the Health Department Building

WHEREAS, funds were budgeted for the scheduled security improvements at Rock County Public Health Department building in 2021; and

WHEREAS, SGTS, as our security integrator, will design, develop specifications, install, program, integrate and commission the controlled access, cameras, and equipment controls at the Health Department; and,

WHEREAS, typically SGTS provides the professional services and we bid out the equipment ; and,

WHEREAS, the cost for the professional Services is \$24,780.

NOW, THEREFORE, BE IT RESOLVED by the Rock County Board of Supervisors duly assembled
this _______ day of ______, 2020, that a contract for professional services be
awarded to SGTS Inc., of Madison, Wisconsin, in the amount of \$24,780.

Respectfully submitted,

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GENERAL SERVICES COMMITTEE

Robert Potter, Chair

Tom Brien, Vice Chair

Dave Homan

Brent Fox

William Wilson

Retaining SGTS Inc. for Professional Services for the Installation, Integration, and Commissioning of the Security Controls Equipment at the Health Department Building Page 2

LEGAL NOTE:

The County Board is authorized to take this action pursuant to secs. 59.01 and 59.51, Wis. Stats. Professional services are not subject to bidding requirements of sec. 59.52(29), Wis. Stats.

s/Richard Greenlee

Richard Greenlee Corporation Counsel

ADMINISTRATIVE NOTE:

Recommended.

/s/Josh Smith

Josh Smith County Administrator

FISCAL NOTE:

This project is being funded with sales tax revenue.

/s/Sherry Oja

Sherry Oja Finance Director

<u>Approval to partner with Alliant Energy for the</u> <u>installation of a 1.4 mega-watt solar array:</u>

I am requesting approval and support to partner with Alliant Energy to install an estimated 1.4 mega-watt solar array on 10-acre parcel just east of Rock Haven on county owned land that is zoned for business and industrial. Rock County will provide the land and Alliant energy will install and maintain the equipment. Alliant Energy will provide lease payments and potentially Renewable Energy Credits. If approved by Rock County before Dec 31, 2021 the array approval process could be completed and ready for construction to start in 2023.

Rock County has passed a Resolution Feb 22nd 18-2B-461 which gives Rock County Facilities Management Department guidance for looking at ways to reduce our energy consumption, increase our use of renewable energy in an economically feasible way by 25% by 2025. It was later amended April 8th adding language to become carbon neutral by 2050. Rock County Facilities Management as well as Supervisor Homan has been working with Alliant Energy for a potential solar project that Rock County could partner with Alliant to achieve the goals set out by the Resolutions passed. I feel this project meets the intent of the resolution previously passed by Rock County Board of Supervisors.

Rock County

Customer Hosted Renewable Solutions Proposal

September 17, 2021





September 17, 2021

Dear Mr. Sutherland,

Alliant Energy is pleased to provide you this indicative proposal for a solar facility to be located on approximately nine acres of land near Humes Road in Janesville, Wisconsin. We appreciate your ongoing willingness to collaborate on this exciting project and believe a 1.4 - megawatt (MW) solar array under the Customer Hosted Program could help achieve both of our sustainability and energy goals. The purpose of this proposal is to reinforce our commitment to executing a successful project for Rock County in the months ahead.

Overall, the solar array will be owned by Alliant Energy and will add clean energy to the grid that will help power local homes and nearby businesses for decades to come. In return, Alliant Energy will pay Rock County an annual fixed lease payment of **\$63,658** over the next 20 years – or longer if the extension options are agreed to by both parties. Please note the lease payment is set by the Public Service Commission of Wisconsin and the estimated payment above could increase or decrease if the lease is executed in 2022 vs. 2021.

Alliant Energy's goal is to have the solar facility installed and operational in 2023 or 2024, but this timeline depends on the timely execution of the lease agreement, receipt of all required permits, and completing all interconnection work. The project timeline is also reliant on Alliant Energy completing some extensive upgrades to the local distribution system near the array. After the lease agreement is finalized, a more detailed design will be developed to include construction drawings and a more specific implementation schedule.

It is important to understand that an unexpected discovery on the property or unforeseen market conditions could impact the size of the project, your estimated annual lease payments, or the construction schedule. We hope our teams can meet soon to discuss any questions you may have about this proposal and the enclosed lease.

Again, thank you for the opportunity to work together on an exciting project that will be an essential step in our joint efforts to build a cleaner energy future for the greater Janesville area.

Sincerely,

Lotter flier

Zack A. Hill Alliant Energy, Sr. Resource Development Manager



ROCK COUNTY Solar Project - Indicative Pro Forma

Project Name: Rock County	Alliant Energy Contact: Bill Alt
Customer Contact: Brent Sutherland	Phone: 608.757.7565
Total Project Size: 1.4 MW(ac) ¹	Email: WilliamAlt@alliantenergy.com
Facility Area: ~9 acres	Proposal Date: September 17, 2021

Customer-Hosted Renewables Program

Indicative Project Size: 1.4 MW(ac)

Under the Customer-Hosted Renewables Program, the primary financial benefit to Rock County is the annual lease payment for hosting the solar array. The lease payment formula was approved by the Public Service Commission of Wisconsin and cannot be changed. This agreement is autonomous from the utility service that is provided to Rock County and **will not impact** your monthly utility rates or electric rates.

Alliant Energy Lease Pay	ments to ROCK COUNTY
Total Annual Payment	20-Year Total
\$63,658	\$1,273,160

You may elect to receive Renewable Energy Credits (RECs) in lieu of full lease payments under this Program to help meet the County's sustainability goals; however, your annual lease payments would be reduced by the current value of the RECs over the life of the contract. Alliant Energy can provide more information about this option during our next discussion.

Estimated REC Value as of May 2021: \$3.60/MWh

¹ Size of facility will be finalized once a detail design has been completed and final equipment has been selected. Size proposed may vary by +/- 10% of the final facility.



ROCK COUNTY Solar Project – Next Steps

This proposal is valid until December 31, 2021. We are available to discuss and refine the proposal during this period, including a joint site inspection to confirm access and boundary assumptions. Alliant Energy requests that Rock County indicate their written acceptance of this proposal via email, authorizing Alliant Energy to commission contractors to conduct feasibility studies on your behalf, and state Rock County's intention to negotiate and execute the enclosed Lease agreement.

Following are some of the activities that would be initiated by Alliant Energy upon receipt of your approval to move forward with the project:

- Order a Critical Issues Analysis to check for potential site issues, including wetlands, endangered species, historical landmarks, easements, recorded sub-surface utilities or other impediments, etc.
- Order a Geotech Analysis to determine the suitability of subsurface conditions for piledriven racking foundations (depending on weather).
- Conduct additional due diligence on the potential costs and challenges of interconnecting the array to the local distribution grid.
- Assign a Project Manager and form an internal Engineering Team to develop written specifications for requesting a construction quote from one or more Solar Developers.



REFERENCE AREA

ROCK COUNTY, WISCONSIN 51 S. Main Street Janesville, WI 53545



Facilities Management Facilities Maintenance (608) 757-5527 (608) 757-5516 - Fax

Approval to purchase security equipment for the Health Department

Funds were budgeted in 2021 for security equipment to be purchased for the Health Department building. The cost of the equipment is \$24,993 SGTS will provide this equipment which will be the same equipment that has been installed county wide. This specific equipment is being requested for integration continuity as well as provides efficiency in managing our inventory control of spare replacement part required. This is below the required threshold hold for bidding of equipment.