

**CITY OF SPARTA  
PUBLIC WORKS AGENDA  
November 13, 2019**

**CITY HALL**

**6:00 P.M.**

- 1. Call Meeting to Order**
- 2. Consideration of Consent Agenda consisting of: minutes from the October 9, 2019 Meeting, Director of Public Works Report for November; Water Utility Operation and Maintenance Report for October; Wastewater Treatment Facility Operation and Maintenance Report for October-November and monthly bills for the Sanitation Dept., Street Dept., and Water Utility.**
- 3. Consideration of US Cellular Lease Agreement Amendment**
- 4. Consideration of Sanitation Budget**
- 5. Discussion of Dam Repair Project with Updated Cost Estimates**
- 6. Consideration of Stop Signs on Bicycle St. and Spartan Dr.**
- 7. Consideration of Purchase of Aerial Lift Truck**
- 8. Consideration of Engineering Proposal for Icecap Rd. Drainage Project**
- 9. Items for Future Consideration**
- 10. Adjourn**

A Possible Quorum of the Common Council may be in attendance at this meeting, but no action will be taken by the Council.

Posted: 11-11-19

**CITY OF SPARTA**  
**PUBLIC WORKS MINUTES**  
**October 9, 2019**

**PRESENT:** Larry Tichenor, Kevin Riley, Jim Church, Kevin Brueggeman, Michael Zeidler, Bryan Jandt

**ABSENT:** Norm Stanek

**ALSO PRESENT:** Mark Van Wormer, Dave Kuderer, Dennis Johnson, Matthew Hoffland, Todd Hanson, Bruce Humphrey, Todd Fahning, Emilee Nottestad, Pat Mulvaney, Steve Clark

Kevin Riley called the meeting to order at 6:00.

**A motion was made by Kevin Brueggeman and seconded by Larry Tichenor to approve the consent agenda consisting of the minutes of the September 11, 2019 meeting, Director of Public Works Report for October; Water Utility Operation and Maintenance Report for September, Wastewater Treatment Facility Operation and Maintenance Report for September and monthly bills for the Sanitation Dept., Street Dept., and Water Utility. Motion carried 6-0.**

An email was sent from Anje Schmitz from Osborne, Tripp & Schmidt to Mayor Gust and Alderman Brueggeman regarding a camper that has been parked in the parking lot behind their office and they believe that someone is living in the camper. The only thing that the Police Department can do is mark the tires and if not moved within 48 hours, issue a citation. Since this email, the camper has not come back to this parking lot, so it has basically taken care of itself for now.

Bruce Humphrey and Steve Clark are requesting that a yield or stop sign be placed on Spring Street at the Pearl Street intersection. (the agenda states Monroe Street as that is how it was explained to us) It seems that people going from Montgomery Street to Franklin Street are speeding through the intersections. The neighbors are concerned and would like something put up in order to slow down traffic. **A motion was made by Kevin Riley and seconded by Kevin Brueggeman to place a yield sign on Spring Street at the Pearl Street intersection. Motion carried 5-1 with Jim Church voting no.**

Chief Kuderer had received a call from someone as his son was cited with a speeding ticket on S. Water Street and stated that there was no speed limit sign on that street. This person was traveling West on Wisconsin Street which is a 35 mph speed zone and turned on S. Water Street and thought the speed limit was still 35 mph. It was mentioned that the speed limit is 25 mph unless otherwise posted, but it is being recommended that a sign be put up so everyone going that way will know that the speed limit is 25 mph. **A motion was made by Jim Church and seconded by Larry Tichenor to put a 25 mph sign up by the bridge at the intersection of Walrath and S. Water Street. Motion carried 6-0.**

Mark Van Wormer gave an update on the storm water retention pond complaint on DeWitt Street. He and Dennis Johnson checked the plans from Cedarcorp, and checked the piping and that is, in fact, labeled a retention pond. The pond seems to be doing what it is supposed to be doing. We have just had a lot of rain so it may take longer to go down as it is probably saturated.

Mark Van Wormer gave an update on the storm water concerns on W. Circle Dr. He and Dennis Johnson have monitored this area during recent rain storms and found that the water is not coming from Faith Ave., but coming down from Main Street. There was a waterway for the water to go from Main Street down to the storm drain on Circle Drive, but there have been improvements to the yards which may have changed the waterway which has also filled itself in over the years.

There was some discussion regarding an ordinance for “No Drop Off or Pick Up” on W. Division Street for students at the new Herrman Elementary School. Part of this area is in the City limits and part is in the Town of Sparta. There are several things to work out yet before an ordinance can be created for this. **A motion was made by Jim Church and seconded by Larry Tichenor to table this until more information is available. Motion carried 6-0.**

Mark Van Wormer presented the 5 year street improvement plan. **A motion was made by Jim Church and seconded by Kevin Brueggeman to approve the 5 Year Street Improvement Plan as presented. Motion carried 6-0.**

Todd Hanson presented the Water Utility Budget. **A motion was made by Jim Church and seconded by Kevin Brueggeman to approve the Water Utility Budget as presented. Motion carried 6-0.**

Mark Van Wormer presented the Sanitation Budget. Dale Passehl was on vacation this week so the Board thought that maybe next month Dale could give an update on how things are going in the Sanitation Dept. **A motion was made by Jim Church and seconded by Kevin Brueggeman to approve the Sanitation Budget as presented. Motion carried 6-0.**

Mark Van Wormer presented the Equipment Replacement Plan. **A motion was made by Jim Church and seconded by Kevin Brueggeman to approve the Equipment Replacement Plan as presented. Motion carried 6-0.**

Items for future consideration were:  
Tree to be trimmed on N. Water Street

**A motion was made by Kevin Riley and seconded by Jim Church to adjourn at 7:01 p.m. Motion carried 6-0.**

Respectfully submitted,

Julie Hanson  
City Clerk

To: Board of Public Works  
From: Mark Van Wormer, Director of Public Works  
Date: November 13, 2019  
Subject: Public Works November Monthly Report

## **Airport**

\_\_A new lift gate for access to the hangar area was installed and should be operational soon. I attended a airport land use seminar in Wisconsin Rapids.

## **Project Updates**

### **Paper Mill Dam Project**

We have received updated estimates to repair the items the DNR is requiring and installing new gates that will be individually operated with no control system. The estimates would make the City share of the repairs between @\$400,000 and \$600,000.

### **Chester St. Reconstruction (2019)**

The project is complete and we are finalizing the paperwork, as-builts and grant funding.

### **Milwaukee St. Bridge Project (2019)**

Replacement of the Milwaukee St. Bridge over Farmer's Valley Creek has been completed and restoration is complete. Milwaukee St. is in poor shape due to We-Energies gas line project which they will repair once some additional work has been completed.

### **South Pointe Business Park**

Work on phase 2 of the plan is complete

### **Highway 27 Project**

This project is completed.

### **Harbor Drive Retention Pond**

Gerke has started excavation on the project and it looks as though due to the weather the liner will not be able to be installed due to a 40 degree seaming requirement. The culvert across Montgomery St. has been installed and the stormwater piping along and across Highway County "BC" is installed.

### **Miscellaneous**

\_\_Ash tree removal continues other tree trimming will continue into winter. Leaf pickup is underway and will continue. The Sanitation Department needed a replacement computer system for their SCADA system due to a aging computer system malfunction.

## City of Sparta Water Utility

### Operation and Maintenance Report

October, 2019

In October we pumped 36,454,000 gallons of water compared to 38,195,000 gallons for the same period last year.

The following is a list of what the Water Utility has been working on during the month of October:

- Completed the monthly bacti samples.
- Completed monthly fluoride sample.
- Completed quarterly nitrate sample.
- Completed quarterly raw water samples at all six wells.
- Ran standby engines and generators for the monthly tests.
- We completed the city wide fall hydrant flushing during the week of Oct. 7 - 11<sup>th</sup>. We are now preparing hydrants for winter by checking for standing water inside the barrel and pumping them down, if needed. Installing hydrant flags and doing maintenance on those that need attention.
- We have checked all heaters at our facilities. A few need serviced or replaced.
- Our annual inspection of the cathodic protection systems in our four towers has been completed with no issues.
- I Completed Water Utility staff evaluations.
- The work has been completed at Well 9 filter plant. A pneumatic tank has been installed and media has been replaced in cell 2 of the filter. This project was completed in just a few days.
- We assisted Gerke in digging and repairing a water main break near 3000 S. Black River St. The leak was at the connection that converted from ductile iron to HDPE plastic pipe that was bored under Hwy. 27. Customers in the South Pointe Business Park were turned back on within a few hours.
- On 10/29 we isolated the area near hydrant B59 (W. Montgomery St. & Drake St.). Our contractor Gerke, dug and replaced this hydrant. It was possibly hit by a motorist and broke near the bottom. A few customers were affected by the shutdown for a couple of hours. While turning the water back on to this area, one of the main line valves broke. Sometimes on older valves the stem will break while exercising it, meaning the gate will no longer open or close. Gerke dug and replaced this valve on 10/30. Several homes were affected again by the shutdown for a few hours.
- We continue to exercise valves in the distribution system as per DNR requirements.
- We are continuing with work such as: water testing at wells and in the system, routine meter changing, residential cross connection inspections, high bill checks and Diggers Hotline ticket locates.
- We completed monthly meter reading route for our large customers.

*Todd Hanson  
Supervisor  
Sparta Water Utility*

**CITY OF SPARTA  
WASTEWATER TREATMENT FACILITY  
OPERATION AND MAINTENANCE REPORT**

**Oct-Nov 2019 (Oct5<sup>th</sup>-Nov13<sup>th</sup>)**

Month of Oct

1. Storm on 9/11-13 update
  - a. Landfill panel fixed
  - b. Effluent meter replaced and reads more in line with influent
  - c. VFD replaced
2. Phosphorus analyzer system project readdressed and revamped
  - a. Analyzer working and dosing properly with minor tweaks
  - b. Already noticing chemical reduction, but maintaining .5mg/L level as opposed to .2-.3mg/L. Our permit is .6mg/L
3. Trickle filter issues continue.
  - a. Failing tanks/arms force shut down. The bad one is down, the good one broke. Will not explore investment into antiquated technology.
  - b. Getting the Activated Sludge basins and blowers to give us better treatment and effluent
  - c. Replace missing valves and AS basin#3
  - d. Will need a stationary DO meter as well ASAP
4. Reauthored and 5S'd operations and lab worksheets to conform to DNR audit and give value added information
  - a. Digester worksheets coming in the near future
  - b. Authoring excel worksheets for process controls: SRT, F:M ratios, sludge age, and more to get a better process control for microbiology consistency
    - i. Will invest in automated RAS and wasting controls: equipment is ½ establish already.
5. 5S projects still in progress
  - a. Lab, and other storage areas on site
  - b. Saving segregated metals for recycling prices to rise
6. WIFI and computer networking in Lab and office data computers nearly complete
  - a. SCADA process control computer
    - i. Estimated to be complete by end of Jan. 2020
    - ii. Camera security/ and septage hauling control being pursued
7. Sewer Repairs
  - a. Sherilyn Lane warranty work completed, still small leaks, so HydroClean coming back to readdress.
  - b. Holding off on getting 3900+ ft of problematic sewer lines televised due to not having a workable crawler unit:
  - c. Collector app/MSA working on collector app for better Sanitation Utilization

- d. Exploring crawlers and TV units to repair our own mains, "Macqueen" is one of a very few that offer a crawler that gives us an option of repairing our own mains without digging up.
    - i. Seal breaks with 18" SS/rubber sleeves.
- 8. Gutter/Roof/ ice safety on garage completed
  - a. hazards and liability averted
  - b. Have two welding jobs (liftstation and on site) that must be performed ASAP. The ROI is expected to be <12months as we readily have use for a welder
- 9. Synagro and solid applications conundrum
  - a. Short wet application window, Synagro starting to apply maybe 300K on 11/11.
  - b. Sent 60K to A1-Advanced due to Synagro's inability to apply
  - c. Still exploring other options of sending to holding tanks, winter applications, and more
  - d. Our trucks broke down after 60K on 11/10. Will revamp with 6" discharge knife valves to replace leaking butterfly valves
- 10. Working with Foremost and Feyens Arcade to accept more tipping fees/revenue.
  - a. Waiting of one more result from Davy's. But so far foremost is very excited about this opportunity, creating a win win for the community and industry
- 11. Final paperwork details with Synagro on sale of the Terra Gator
- 12. Walmart rags issue a 180 turn around, great for the past 4weeks. Will continue to monitor
- 13. Energy Audit with Tony from WRWA illustrates several areas of improvement
  - a. Will be addressing with VFDs and other methods
  - b. Blowers/motors/ and WWTP liftstation pumps very inefficient (RAS/Influent)
- 14. Implementing more value-added lab work
- 15. Exploring outsourcing landfill #39 sampling!

Summary, continued working on 5S. Facing solids removal issues and establishing plan B sludge removal options. Shut down trickling filters and establishing a more automated AS basin treatment system to clean up effluent and bring in revenue. Authoring worksheets to fulfill lab audit and provide operations with value added information. Coach the staff to be more hands on with the plant operations and have a better understanding of the equipment and its functions. Full force into the Collector app utilization while working with MSA to better supply us with a user-friendly app and CMOM type data. Currently available on the iPad and the two Windows 10 computers.

Thank you

Dale Passehl  
Sanitation/WWTP Plant Manager

## Council

I've been here roughly 3-4 months. There are several caveats to be addressed and that have been addressed. Below are a couple steps taken to this point and then the direction I plan to pursue with the site.

- 1) Re-established positive working culture installing respect, integrity, transparency, and empathy with a sense of direction and empowerment
- 2) Identify and continue to identify inefficiencies within the department operations, lab, and collection, landfill
- 3) Supply the staff to perform regular pm, maintenance, operational, and lab duties
- 4) Provide a safety conscience working environment
- 5) Continually ask staff for input providing a collaborative work environment upon the plant's direction

With the work culture well established and getting the staff actively involved with the plant. Further plant/ equipment understand is to follow. As a result, to preliminary actions. We have discovered that this plant was operated effectively but inefficiently using a plethora of manual operations. SCADA was implemented at a very minute aspect and mainly consists of babysitting readings rather than controlling the plant. By outsourcing time intensive DMR lab testing, we've been testing operational and value-added data as we explore ways to optimize our operations. It is my full intension to better utilize the SCADA systems as it should be. We will optimize the physical, chemical, and biochemical aspects of the operations. As well as pursue cost effective measures of nutrient removal (away from the P trading), solids handling, gas management, and revenue building in our receiving area while establishing positive industry relationships.

- 1) Preliminary treatment- effective screening and conveying of rags to dumpster
- 2) Primary treatment-Level sensor and automatic pumping as needed, not time based. Using more efficient pumps. No compressors
- 3) Removing the trickling filters- no nutrient removal benefits, mercury monitoring (remove arms and seals within the next 5 years and get this monitoring off our permit) Find alternative uses for these tanks (receiving ?)
- 4) RAS/Influent lift station- replace motors/pumps with VFD drives to reduce energy costs and smooth out process flows for better operational biology and more effective nutrient removal
- 5) Utilize the AS basins under auto RAS control to stabilize the microbiology and treatment process, clear up the effluent and explore denitrification and bio P removal techniques to eventually escape the P trading "Wild Turkey" Not Golden Goose as it was sold to Sparta
- 6) Revenue building through co-digestion and gas management. \_ pursuing energy cost savings through heat/elec sustainability. (Generator, Gen/Boiler for plant heat and electric, etc)
- 7) Options of producing a class a sludge.

- 8) To better identify the various options that are encompassed with the aforementioned direction, I propose that I obtain an overall engineering plan on a site assessment which will present options available while weighing out the NPV and ROI
  - a. With this, I can more effectively establish a 2-5-10+ year plan.

Overall, I plan to get the plant to operate much more effectively, efficiently by optimizing and automating its processes and stabilizing its biology. Upgrading our liftstation pumps and blowers to be more hydraulically compatible and energy efficient. Stepping away from so many P trading projects. Investing in our infrastructure which we have monetary control over while planning for obsolescence/equipment upgrades. Automating our overall maintenance program of closer real-time information on our infrastructure.

*Dale Passehl*  
*Sanitation/WWTP Plant Manager*  
*Sparta WI*

Check Number	Check Issue Date	Vendor Name	Invoice GL Account	Invoice GL Account Title	Invoice Number	Amount	Description
121421	10/02/2019	Hundt Implement	700-03980	MISCELLANEOUS EQ	9/24/19	3,200.00	CUB CADET CAB
121445	10/07/2019	1ST COMMUNITY	700-53840-371	GAS/OIL	1453 9/27/19	34.60	SANITATION DEPT
121445	10/07/2019	1ST COMMUNITY	700-53830-250	CUSTODIAN SERVICE	1453 9/27/19	23.39	SANITATION DEPT
121445	10/07/2019	1ST COMMUNITY	700-53830-930	MISCELLANEOUS GE	1453 9/27/19	63.29	SANITATION DEPT
121445	10/07/2019	1ST COMMUNITY	700-53830-273	TOOLS	1453 9/27/19	1,797.72	SANITATION DEPT
121445	10/07/2019	1ST COMMUNITY	700-53870-340	OPERATING SUPPLIE	1453 9/27/19	274.81	SANITATION DEPT
121445	10/07/2019	1ST COMMUNITY	700-53920-310	OFFICE SUPPLIES	1453 9/27/19	10.54	SANITATION DEPT
121445	10/07/2019	1ST COMMUNITY	700-53920-310	OFFICE SUPPLIES	1453 9/27/19	52.74	SANITATION DEPT
121445	10/07/2019	1ST COMMUNITY	700-53830-340	OPERATING SUPPLIE	1453 9/27/19	1,510.00	SANITATION DEPT
121445	10/07/2019	1ST COMMUNITY	700-53920-320	PUBLICATIONS/SEMIN	1453 9/27/19	285.00	SANITATION DEPT
121446	10/07/2019	ADVANCE AUTO P	700-53840-240	REPAIRS & MAINTENA	1580-319925	3.84	TRU FLEX BELT
121448	10/07/2019	Band Box Cleaners	700-53830-210	PROFESSIONAL SERV	64326	65.32	TOWEL GLASS
121449	10/07/2019	Brad Olson Electric	700-03250	ELECTRIC PUMPING E	19-1382	3,772.22	INSTALL GENERATOR-12
121449	10/07/2019	Brad Olson Electric	700-53870-210	PROFESSIONAL SERV	19-1383	3,274.34	REPAIRS-BUILDING 30 E
121451	10/07/2019	COULEE TECH INC	700-03910	OFFICE FURNITURE &	1535	1,490.03	INTEL NUC/NEWEST HP
121453	10/07/2019	L W Allen LLC	700-53870-210	PROFESSIONAL SERV	100491	743.54	SVC LABOR-WELL 10 TO
121454	10/07/2019	O'REILLY AUTOMO	700-53840-240	REPAIRS & MAINTENA	2236-199001	51.84	BLUE DEF/SWAY LINK KT
121456	10/07/2019	Service Plus Heatin	700-53870-210	PROFESSIONAL SERV	34941	507.00	REPAIR EXHAUST-BUILDI
121458	10/07/2019	SPEED'S PROPER	700-53870-240	REPAIRS & MAINTENA	173512	94.24	REPLACE BALL BEARING
121459	10/07/2019	The Hardware Store	700-53830-273	TOOLS	A344472	25.47	ALUMINUM ANGLE/WRE
121459	10/07/2019	The Hardware Store	700-53830-273	TOOLS	A344472	2.55-	ALUMINUM ANGLE/WRE
121459	10/07/2019	The Hardware Store	700-53870-240	REPAIRS & MAINTENA	A344524	2.99	HARDWARE
121459	10/07/2019	The Hardware Store	700-53870-240	REPAIRS & MAINTENA	A344524	30-	HARDWARE
121459	10/07/2019	The Hardware Store	700-53870-240	REPAIRS & MAINTENA	A344569	5.99	SILLCOCK
121459	10/07/2019	The Hardware Store	700-53870-240	REPAIRS & MAINTENA	A344569	60-	SILLCOCK
121461	10/07/2019	USA Blue Book	700-53830-340	OPERATING SUPPLIE	017000	78.89	VOLATILE ACIDS TNT
121462	10/07/2019	Walmart Community	700-53830-250	CUSTODIAN SERVICE	TR# 00470	62.90	CHARMIN/BOUNTY
121462	10/07/2019	Walmart Community	700-53830-930	MISCELLANEOUS GE	TR# 02508	64.80	DONUT SHP/CAR VAN
121462	10/07/2019	Walmart Community	700-53830-923	OUTSIDE SERVICES	TR# 08662	131.24	MONITER FOR LAB
121463	10/07/2019	WE ENERGIES	700-53860-340	OPERATING SUPPLIE	3281-326-595 9/19	11.44	GAS-HOESCHLER
121463	10/07/2019	WE ENERGIES	700-53860-340	OPERATING SUPPLIE	3609-101-745 9/19	10.38	GAS-WALRATH ST
121463	10/07/2019	WE ENERGIES	700-53810-221	HEATING - GAS	5032-284-722 9/19	39.72	GAS-RICHGRUBER RD
121463	10/07/2019	WE ENERGIES	700-53860-340	OPERATING SUPPLIE	7241-288-912 9/19	11.44	GAS-JULIE AVE
121542	10/09/2019	XCEL ENERGY	700-53860-340	OPERATING SUPPLIE	52-9873089-3 9/19	27.21	ELECTRIC-HEMSTOCK D
121549	10/10/2019	VERIZON WIRELE	700-53920-391	TELEPHONE	9839263264	47.81	SANITATION DEPT
121549	10/10/2019	VERIZON WIRELE	700-53830-930	MISCELLANEOUS GE	9839263264	40.01	SEWER IPAD
121549	10/10/2019	VERIZON WIRELE	700-53920-391	TELEPHONE	9839263264	426.88	SANITATION DEPT
121550	10/10/2019	XCEL ENERGY	700-53860-340	OPERATING SUPPLIE	52-8129801-9 9/27/	30.54	ELECTRIC-HANSON PL S
121574	10/17/2019	CenturyLink	700-53860-340	OPERATING SUPPLIE	301277774 10/19	58.00	TELEPHONE-2915
121574	10/17/2019	CenturyLink	700-53920-391	TELEPHONE	301283737 10/19	180.58	TELEPHONE-6824
121574	10/17/2019	CenturyLink	700-53860-340	OPERATING SUPPLIE	301283737 10/19	47.14	TELEPHONE-2915
121578	10/17/2019	KWIK TRIP INC	700-53840-371	GAS/OIL	384132 9/18	81.81	GAS CHGS-SEPT
121578	10/17/2019	KWIK TRIP INC	700-53810-223	DIESEL FUEL	384132 9/18	74.22	DIESEL CHGS-SEPT
121585	10/21/2019	Cedar Corporation	700-53920-210	PROFESSIONAL SERV	101070	1,984.10	PHOSHORUS FACILITY P
121585	10/21/2019	Cedar Corporation	700-53920-210	PROFESSIONAL SERV	101071	742.00	STORM SEWER UPGRAD
121587	10/21/2019	EVANS PRINT & M	700-53920-310	OFFICE SUPPLIES	1773	53.00	TIME CARDS
121588	10/21/2019	L W Allen LLC	700-03306	PRELIMINARY TRMNT	100580	3,389.00	REPLACE SAMPLER PU
121592	10/21/2019	SPARTA COOPERA	700-53840-371	GAS/OIL	5724 9/30/19	144.69	GAS CHGS - SEPT 2019
121592	10/21/2019	SPARTA COOPERA	700-53810-223	DIESEL FUEL	5724 9/30/19	93.49	DIESEL CHGS - SEPT 201
121596	10/21/2019	WISCONSIN LIFT T	700-53870-240	REPAIRS & MAINTENA	821935603	4,459.83	BRAKES & TUNEUP-HYS
121597	10/21/2019	XCEL ENERGY	700-53860-340	OPERATING SUPPLIE	52-6161035-7 10/19	67.48	ELECTRIC-WALRATH ST
121597	10/21/2019	XCEL ENERGY	700-53860-340	OPERATING SUPPLIE	52-6161035-7 10/19	25.91	ELECTRIC-JANE DR
121597	10/21/2019	XCEL ENERGY	700-53860-340	OPERATING SUPPLIE	52-6161035-7 10/19	43.06	ELECTRIC-ST HWY 16
121597	10/21/2019	XCEL ENERGY	700-53860-340	OPERATING SUPPLIE	52-6161035-7 10/19	232.25	ELECTRIC-HOESCHLER
121597	10/21/2019	XCEL ENERGY	700-53860-340	OPERATING SUPPLIE	52-6161035-7 10/19	49.95	ELECTRIC-1/2 A ST
121597	10/21/2019	XCEL ENERGY	700-53810-220	ELECTRIC	52-6161035-7 10/19	7,292.89	ELECTRIC-RICHGRUBER
121597	10/21/2019	XCEL ENERGY	700-53860-340	OPERATING SUPPLIE	52-6161035-7 10/19	119.18	ELECTRIC-JULIE AVE
121597	10/21/2019	XCEL ENERGY	700-53860-340	OPERATING SUPPLIE	52-6161035-7 10/19	85.42	ELECTRIC-IBAND AVE
121683	10/31/2019	ADVANCE AUTO P	700-53840-240	REPAIRS & MAINTENA	1580	6.92	POWERATED BLT
121684	10/31/2019	All American Do It C	700-53870-240	REPAIRS & MAINTENA	001-180709	17.99	TRAP DRAIN

Check Number	Check Issue Date	Vendor Name	Invoice GL Account	Invoice GL Account Title	Invoice Number	Amount	Description
121685	10/31/2019	Band Box Cleaners	700-53830-210	PROFESSIONAL SERV	66300	75.30	Towel shop
121685	10/31/2019	Band Box Cleaners	700-53830-250	CUSTODIAN SERVICE	68227	65.32	MAT 3x5/TOWEL
121688	10/31/2019	Davy Laboratories	700-53830-923	OUTSIDE SERVICES	19J0022	150.00	LAB Phosphorus
121688	10/31/2019	Davy Laboratories	700-53830-923	OUTSIDE SERVICES	19J0023	112.50	LAB Phosphorus
121688	10/31/2019	Davy Laboratories	700-53830-923	OUTSIDE SERVICES	19J0528	281.25	LAB Phosphorus
121690	10/31/2019	EVANS PRINT & M	700-53920-930	MISCELLANEOUS GE	29208	49.00	SUBSCRIPTION RENEWA
121691	10/31/2019	Hagen's Sales & Se	700-53870-240	REPAIRS & MAINTENA	551949	396.39	CUB CADET TUNE UP
121691	10/31/2019	Hagen's Sales & Se	700-53870-240	REPAIRS & MAINTENA	551964	2.75	ROPE
121692	10/31/2019	HOLTZ LIME GRAV	700-53920-210	PROFESSIONAL SERV	15470	22,925.00	RANDY GIRAUD PORECT
121692	10/31/2019	HOLTZ LIME GRAV	700-53920-210	PROFESSIONAL SERV	15472	6,020.00	ELIZABETH KING PROJ
121692	10/31/2019	HOLTZ LIME GRAV	700-53920-210	PROFESSIONAL SERV	15473	4,637.50	KRISTIN OLSON PROJEC
121693	10/31/2019	L W Allen LLC	700-53830-923	OUTSIDE SERVICES	100701	933.24	SCADA REPAIRS
121697	10/31/2019	MISSISSIPPI WELD	700-03980	MISCELLANEOUS EQ	3064699	2,542.20	10,000 WATT GENERATO
121697	10/31/2019	MISSISSIPPI WELD	700-03980	MISCELLANEOUS EQ	3064703	3,686.56	WELDER
121699	10/31/2019	MSA PROFESSION	700-53920-210	PROFESSIONAL SERV	R00051048.0 13	448.50	SPARTA ARCGIS ONLINE
121700	10/31/2019	Mulcahy Shaw Wate	700-03309	ADVANCE TREATMEN	322127	20,407.85	PHOSPHORUS UPGRAD
121701	10/31/2019	Northern Lake Servi	700-53830-923	OUTSIDE SERVICES	366073	255.00	Lab - Mercury
121702	10/31/2019	O'REILLY AUTOMO	700-53870-240	REPAIRS & MAINTENA	2236-199838	64.99	PULLER
121702	10/31/2019	O'REILLY AUTOMO	700-53840-240	REPAIRS & MAINTENA	2236-199849	17.99	U-JOINT SET
121702	10/31/2019	O'REILLY AUTOMO	700-53840-240	REPAIRS & MAINTENA	2236-203541	260.67	BATTERY
121702	10/31/2019	O'REILLY AUTOMO	700-53830-930	MISCELLANEOUS GE	2236-203641	55.83	BATTERY
121705	10/31/2019	The Hardware Store	700-53830-930	MISCELLANEOUS GE	A346971	22.99	GAS CAN
121705	10/31/2019	The Hardware Store	700-53830-930	MISCELLANEOUS GE	A346971	2.30	GAS CAN
121705	10/31/2019	The Hardware Store	700-53870-210	PROFESSIONAL SERV	B307751	45.03	PVC/ELBOW/FLEXIBLE C
121705	10/31/2019	The Hardware Store	700-53870-210	PROFESSIONAL SERV	B307751	4.50	PVC/ELBOW/FLEXIBLE C
121705	10/31/2019	The Hardware Store	700-53870-210	PROFESSIONAL SERV	B308483	3.96	DWV COUPLING
121705	10/31/2019	The Hardware Store	700-53870-210	PROFESSIONAL SERV	B308483	.40	DWV COUPLING
121705	10/31/2019	The Hardware Store	700-53870-240	REPAIRS & MAINTENA	B308513	5.40	HARDWARE
121705	10/31/2019	The Hardware Store	700-53870-240	REPAIRS & MAINTENA	B308513	.54	HARDWARE
121707	10/31/2019	USA Blue Book	700-53830-325	SAFETY PROGRAM	045094	71.42	BOMBER JACKET/SAFET
121707	10/31/2019	USA Blue Book	700-53830-340	OPERATING SUPPLIE	051836	562.12	WASH BOTTLE/FILTER F
121709	10/31/2019	Vierbicher Associate	700-01070	CONSTRUCTION WOR	0015 180042	2,312.41	CHESTER ST RECONSTR
121710	10/31/2019	Walmart Community	700-53830-340	OPERATING SUPPLIE	TR#02935	54.54	PO4 SAMPLER CLEANIN
121712	10/31/2019	WE ENERGIES	700-53870-340	OPERATING SUPPLIE	3281-326-595 10/19	10.10	GAS-HOESCHLER
121712	10/31/2019	WE ENERGIES	700-53860-340	OPERATING SUPPLIE	3609-101-745 10/19	9.57	GAS-WALRATH ST
121712	10/31/2019	WE ENERGIES	700-53810-221	HEATING - GAS	5032-284-722 10/19	376.95	GAS-RICHGRUBER RD
121713	10/31/2019	WISCONSIN BUILD	700-53830-930	MISCELLANEOUS GE	7166251	1,239.63	(4) DESK TOPS
121714	10/31/2019	WISCONSIN LIFT T	700-53870-240	REPAIRS & MAINTENA	821936019	371.55	Z-HYSTER S40XMS GAS
121714	10/31/2019	WISCONSIN LIFT T	700-53870-240	REPAIRS & MAINTENA	821936024	76.50	Z-HYSTER S40XMS SCH
121714	10/31/2019	WISCONSIN LIFT T	700-53870-240	REPAIRS & MAINTENA	821936025	91.80	Z-NEW HOLLAND LX485

Grand Totals:

106,021.72

Check Number	Check Issue Date	Vendor Name	Invoice GL Account	Invoice GL Account Title	Invoice Number	Amount	Description	
121095	10/01/2019	HARTJE TIRE & SE	100-53330-340	OPERATING SUPPLIE	40-66598	1,329.84-	SUPER CARGO AL	V
121411	10/02/2019	CROELL INC	100-53430-340	OPERATING SUPPLIE	388990	639.00	4000 PSI-PINE & R	
121411	10/02/2019	CROELL INC	100-53430-340	OPERATING SUPPLIE	388990	100.00-	4000 PSI-PINE & R	
121412	10/02/2019	Fire Protection Spec	100-53510-340	OPERATING SUPPLIE	109955	80.61	HYDROSTATIC TE	
121415	10/02/2019	O'REILLY AUTOM	100-53240-240	REPAIRS & MAINTENA	2236-199632	26.68	HEADLIGHT	
121417	10/02/2019	ST JOSEPH EQUIP	100-53240-240	REPAIRS & MAINTENA	P37483	147.25	BREATHER/GASKE	
121418	10/02/2019	The Hardware Store	100-53240-240	REPAIRS & MAINTENA	A342679	7.99	EPOXY MARINE S	
121418	10/02/2019	The Hardware Store	100-53240-240	REPAIRS & MAINTENA	A342679	.80-	EPOXY MARINE S	
121418	10/02/2019	The Hardware Store	100-53240-240	REPAIRS & MAINTENA	A342777	1.98	1/4 PIN	
121418	10/02/2019	The Hardware Store	100-53240-240	REPAIRS & MAINTENA	A342777	20-	1/4 PIN	
121418	10/02/2019	The Hardware Store	100-53240-240	REPAIRS & MAINTENA	A343831	8.29	SPLT LCK WSH	
121418	10/02/2019	The Hardware Store	100-53240-240	REPAIRS & MAINTENA	A343831	.83-	SPLT LCK WSH	
121418	10/02/2019	The Hardware Store	100-53300-340	OPERATING SUPPLIE	B307309	64.63	HARDWARE/OUTL	
121418	10/02/2019	The Hardware Store	100-53300-340	OPERATING SUPPLIE	B307309	6.46-	HARDWARE/OUTL	
121425	10/03/2019	KWIK TRIP INC	100-53240-371	GAS/OIL	319405 9/30/19	2,237.49	STREET DEPT	
121430	10/03/2019	UNIVERSAL TRUC	100-53240-240	REPAIRS & MAINTENA	50405	518.50	MALE & FEMALE C	
121433	10/04/2019	SPARTA COOPERA	100-53240-240	REPAIRS & MAINTENA	5127 9/30/19	796.00	TIRES & TUBES	
121433	10/04/2019	SPARTA COOPERA	100-53240-371	GAS/OIL	5127 9/30/19	65.83	GAS CHGS - AUG 2	
121435	10/04/2019	WE ENERGIES	100-53230-221	HEATING - GAS	2463-120-696 9/19	27.17	MAINT FACILITY	
121436	10/04/2019	WESCO HOME FU	100-53240-340	OPERATING SUPPLIE	0146112	299.00	BLK LEATHER CHA	
121437	10/04/2019	All American Do It C	100-53440-340	OPERATING SUPPLIE	001-173218	45.11	PLYWOOD/FURRIN	
121437	10/04/2019	All American Do It C	100-53430-340	OPERATING SUPPLIE	001-174039	9.98	PREMIUM BTR SP	
121442	10/04/2019	ST JOSEPH EQUIP	100-53240-240	REPAIRS & MAINTENA	P37482	79.00	FILTER	
121532	10/09/2019	ADVANCE AUTO P	100-53240-240	REPAIRS & MAINTENA	1580-320085	81.27	HYDRAULIC HOSE	
121532	10/09/2019	ADVANCE AUTO P	100-53240-240	REPAIRS & MAINTENA	1580-320175	64.26	HYDRAULIC HOSE	
121532	10/09/2019	ADVANCE AUTO P	100-53240-240	REPAIRS & MAINTENA	1580-320220	23.41	HYDRAULIC HOSE	
121537	10/09/2019	MODERN DISPOS	100-53620-000	GARBAGE & REFUSE	10/15/19	17,608.92	GARBAGE & REFU	
121540	10/09/2019	TRAFFIC & PARKIN	100-53340-340	OPERATING SUPPLIE	1641095	338.60	YIELD SIGN	
121548	10/10/2019	SPARTA COOPERA	100-53240-240	REPAIRS & MAINTENA	5126 9/30/19	20.00	TIRES & TUBES	
121549	10/10/2019	VERIZON WIRELE	100-53100-391	TELEPHONE	9839263264	47.81	DPW	
121549	10/10/2019	VERIZON WIRELE	100-53230-391	TELEPHONE	9839263264	40.01	STREET IPAD	
121550	10/10/2019	XCEL ENERGY	100-53420-000	STREETE LIGHTING	52-8821676-4 9/27/	37.70	LIGHTS-208 S WAT	
121560	10/14/2019	MORTON SALT	100-53320-340	OPERATING SUPPLIE	5401936732	7,574.15	BULK SAFETY SAL	
121562	10/14/2019	R Communications	100-53240-240	REPAIRS & MAINTENA	2278	623.00	PROGRAM & INST	
121571	10/16/2019	JOHN DEERE FINA	100-53340-340	OPERATING SUPPLIE	1758869	3.31	BOLTS/NUTS/WAS	
121571	10/16/2019	JOHN DEERE FINA	100-53300-340	OPERATING SUPPLIE	1762249	13.98	CRACK POURABL	
121572	10/16/2019	UNIVERSAL TRUC	100-53240-240	REPAIRS & MAINTENA	50501	1,016.90	DIRECT DRIVE MO	
121574	10/17/2019	CenturyLink	100-53510-391	TELEPHONE	301280811 10/19	179.85	AIRPORT	
121574	10/17/2019	CenturyLink	100-53230-391	TELEPHONE	301284392 10/19	124.91	CITY SHOP	
121583	10/17/2019	XCEL ENERGY	100-53420-000	STREETE LIGHTING	2-9213733-6 10/19	191.65	LIGHTS-116 W MAI	
121583	10/17/2019	XCEL ENERGY	100-53420-000	STREETE LIGHTING	52-6161038-0 10/19	7,870.96	LIGHTS	
121583	10/17/2019	XCEL ENERGY	100-53510-220	ELECTRIC	52-6161038-0 10/19	338.06	AIRPORT	
121583	10/17/2019	XCEL ENERGY	100-53230-220	ELECTRIC	52-6161038-0 10/19	212.37	SHOP	
121583	10/17/2019	XCEL ENERGY	100-53510-220	ELECTRIC	52-6334618-9 9/19	35.61	AIRPORT-6083	
121583	10/17/2019	XCEL ENERGY	100-53420-000	STREETE LIGHTING	52-8821940-5 9/19	371.45	LIGHTS-109 N WAT	
121637	10/23/2019	CRAWFORD OIL C	100-53510-371	GAS/OIL	244750	6,778.54	AIRPORT FUEL	
121648	10/23/2019	MODERN DISPOS	100-53620-000	GARBAGE & REFUSE	87087	2,048.40	RECYCLE SURCH	
121654	10/23/2019	WALMART COMMU	100-53230-340	OPERATING SUPPLIE	7182 10/16/19	37.52	STREET DEPT	
121655	10/23/2019	XCEL ENERGY	100-53510-220	ELECTRIC	52-0793737-9 10/17	40.73	AIRPORT-6086	
121655	10/23/2019	XCEL ENERGY	100-53420-000	STREETE LIGHTING	52-11706268-2 10/3	31.21	LIGHTS-120 N WAT	
121655	10/23/2019	XCEL ENERGY	100-53420-000	STREETE LIGHTING	52-6161034-6 10/2/	17.62	LIGHTS-107 N WAT	
121655	10/23/2019	XCEL ENERGY	100-53420-000	STREETE LIGHTING	52-7351573-2 10/15	68.13	LIGHTS- 318 S CH	
121655	10/23/2019	XCEL ENERGY	100-53420-000	STREETE LIGHTING	52-8821941-6 10/1/	61.36	LIGHTS-517 N WAT	
121656	10/28/2019	B & B PLUMBING I	100-53230-340	OPERATING SUPPLIE	1944	17.90	MOEN ACRLYIC HA	
121663	10/28/2019	MODERN DISPOS	100-53620-000	GARBAGE & REFUSE	11/1/19	17,608.92	GARBAGE & REFU	
121674	10/30/2019	Auto Value Parts St	100-53240-240	REPAIRS & MAINTENA	525082153	62.91	ENGINE DECREAS	
121674	10/30/2019	Auto Value Parts St	100-53240-240	REPAIRS & MAINTENA	525082160	14.95	GIANT BONE SPO	

Check Number	Check Issue Date	Vendor Name	Invoice GL Account	Invoice GL Account Title	Invoice Number	Amount	Description
121674	10/30/2019	Auto Value Parts St	100-53240-240	REPAIRS & MAINTENA	525082221	24.99	HEADLIGHT SWIT
121674	10/30/2019	Auto Value Parts St	100-53240-240	REPAIRS & MAINTENA	525082250	24.99	HEADLIGHT SWIT
121674	10/30/2019	Auto Value Parts St	100-53240-240	REPAIRS & MAINTENA	525082484	5.89	12V 55W REPLACE
121674	10/30/2019	Auto Value Parts St	100-53240-240	REPAIRS & MAINTENA	525082485	11.78	12V 55W REPLACE
121674	10/30/2019	Auto Value Parts St	100-53240-240	REPAIRS & MAINTENA	525082487	4.49	MINIATURE LAMP
121674	10/30/2019	Auto Value Parts St	100-53240-240	REPAIRS & MAINTENA	525082532	11.78	12V 55W REPLACE
121674	10/30/2019	Auto Value Parts St	100-53240-240	REPAIRS & MAINTENA	525082607	3.70	FILTERS-2010 GM
121674	10/30/2019	Auto Value Parts St	100-53240-240	REPAIRS & MAINTENA	525082771	24.27	HD FUEL FLEET
121674	10/30/2019	Auto Value Parts St	100-53240-240	REPAIRS & MAINTENA	525083370	111.86	DIESEL FUEL/FLUI
121681	10/30/2019	WE ENERGIES	100-53230-221	HEATING - GAS	2463-120-696 10/24	61.22	MAINT FACILITY
121699	10/31/2019	MSA PROFESSION	100-53100-340	OPERATING SUPPLIE	R00051048.0 13	220.00	SPARTA ARCGIS O
121703	10/31/2019	PERKINS OIL	100-53240-371	GAS/OIL	65868-IN	1,102.75	BULK ROTELLA T4
121703	10/31/2019	PERKINS OIL	100-53240-371	GAS/OIL	66654-IN	95.95	1/5 SHELL TELUS
121706	10/31/2019	TITAN MACHINERY	100-53240-240	REPAIRS & MAINTENA	13126156	1,046.52	REPLACE CENTER
121709	10/31/2019	Vierbicher Associate	400-54000-732	STREETS - RECONST	0015 180042	2,312.41	CHESTER ST REC
Grand Totals:						72,211.81	

Check Number	Check Issue Date	Vendor Name	Invoice GL Account	Invoice GL Account Title	Invoice Number	Amount	Description	
120721	10/18/2019	Water Well Solution	600-53600-633	MAINTENANCE OF PU	482782	35,960.00-	Well #6 Pump repairs	V
121416	10/02/2019	Public Service Com	600-53400-408	TAXES	RA20-1-05610	2,079.62	7/1/19-6/30/20 ADVANCE	
121418	10/02/2019	The Hardware Store	600-53600-626	MISC EXPENSES PUM	A344820	13.95	HARDWARE	
121418	10/02/2019	The Hardware Store	600-53600-626	MISC EXPENSES PUM	A344820	1.40-	HARDWARE	
121418	10/02/2019	The Hardware Store	600-53600-626	MISC EXPENSES PUM	B307555	16.99	CRIMP CUP BRUSH	
121418	10/02/2019	The Hardware Store	600-53600-626	MISC EXPENSES PUM	B307555	1.70-	CRIMP CUP BRUSH	
121420	10/02/2019	Wisconsin Rural Wa	600-53920-921	OFFICE EXPENSES	S3677	520.00	CHARTER MEMBERSHIP	
121435	10/04/2019	WE ENERGIES	600-53600-623	FUEL & POWER PURC	0072-378-771 9/19	13.67	GAS-STANNARD DR	
121435	10/04/2019	WE ENERGIES	600-53600-623	FUEL & POWER PURC	3691-118-861 9/19	11.32	GAS-TOWER ST	
121435	10/04/2019	WE ENERGIES	600-53920-933	TRANSPORTATION	4203-487-249 9/19	9.90	GAS-N CHESTER ST BLD	
121435	10/04/2019	WE ENERGIES	600-53920-933	TRANSPORTATION	8027-738-976 9/19	9.90	GAS-N CHESTER ST BLD	
121445	10/07/2019	1ST COMMUNITY	600-53920-933	TRANSPORTATION	1453 9/27/19	47.45	WATER DEPT	
121445	10/07/2019	1ST COMMUNITY	600-53630-652	MAINT. WATER TREAT	1453 9/27/19	374.56	WATER DEPT	
121455	10/07/2019	R Communications	600-53920-933	TRANSPORTATION	2279	420.00	BLUE TRUCK-FIX LED'S	
121457	10/07/2019	SPARTA COOPERA	600-53920-933	TRANSPORTATION	5128 9/19	482.52	GAS CHGS - SEPT 2019	
121463	10/07/2019	WE ENERGIES	600-53600-623	FUEL & POWER PURC	1494-782-965 9/19	4.47	GAS-2050 RILEY RD	
121464	10/07/2019	WI State Lab of Hyg	600-53630-642	OPERATION LABOR &	607826	26.00	Lab-Fluoride	
121549	10/10/2019	VERIZON WIRELE	600-53650-665	MISC EXPENSES TRA	9839263264	120.37	WATER IPAD	
121550	10/10/2019	XCEL ENERGY	600-53600-623	FUEL & POWER PURC	52-6161036-8 9/19	724.45	ELECTRIC-101 PUMPING	
121550	10/10/2019	XCEL ENERGY	600-53600-623	FUEL & POWER PURC	52-6161036-8 9/19	764.46	ELECTRIC-103 PUMPING	
121550	10/10/2019	XCEL ENERGY	600-53600-623	FUEL & POWER PURC	52-6161036-8 9/19	34.38	ELECTRIC-AVON RD	
121550	10/10/2019	XCEL ENERGY	600-53600-623	FUEL & POWER PURC	52-6161036-8 9/19	1,518.56	ELECTRIC-104 PUMPING	
121550	10/10/2019	XCEL ENERGY	600-53600-623	FUEL & POWER PURC	52-6161036-8 9/19	915.56	ELECTRIC-N CHESTER S	
121571	10/16/2019	JOHN DEERE FINA	600-53600-626	MISC EXPENSES PUM	1753456	347.43	SUBMERSIBLE PUMP/GR	
121571	10/16/2019	JOHN DEERE FINA	600-53600-626	MISC EXPENSES PUM	1753457	2.79	BULK MIDWEST	
121571	10/16/2019	JOHN DEERE FINA	600-53600-626	MISC EXPENSES PUM	1758939	27.96	BATTERY/SEALANT	
121571	10/16/2019	JOHN DEERE FINA	600-53630-652	MAINT. WATER TREAT	1762575	57.54	V BELT/BATTERY	
121574	10/17/2019	CenturyLink	600-53600-626	MISC EXPENSES PUM	301282035 10/19	217.78	TELEPHONE-4334	
121574	10/17/2019	CenturyLink	600-53600-626	MISC EXPENSES PUM	301283684 10/19	50.15	TELEPHONE-6719	
121583	10/17/2019	XCEL ENERGY	600-53600-623	FUEL & POWER PURC	52-8327905-4 10/19	3,180.43	ELECTRIC-2050 RILEY R	
121583	10/17/2019	XCEL ENERGY	600-53600-623	FUEL & POWER PURC	52-8327905-4 10/19	59.67	ELECTRIC-3185 RILEY R	
121590	10/21/2019	Morganside Veterni	600-01420	CUSTOMER ACCOUN	1-20022500-00	292.94	REFUND DOUBLE PAYME	
121594	10/21/2019	Water Well Solution	600-53600-633	MAINTENANCE OF PU	482782 REISSUE	35,960.00	Well #6 Pump repairs	
121652	10/23/2019	STIEHL, VALERIE	600-01420	CUSTOMER ACCOUN	1-22044400-13	103.37	REFUND OVERPYMT	
121655	10/23/2019	XCEL ENERGY	600-53600-623	FUEL & POWER PURC	52-8090251-0 10/19	357.11	ELECTRIC-ICECAP RD	
121684	10/31/2019	All American Do It C	600-53630-643	MISC EXPENSES WAT	001-180890	35.92	BLEACH	
121686	10/31/2019	CLEAN WATER TE	600-53630-642	OPERATION LABOR &	0137115-IN	336.00	LAB	
121686	10/31/2019	CLEAN WATER TE	600-53630-642	OPERATION LABOR &	0167070-IN	21.00	LAB-W CHESTER ST	
121687	10/31/2019	Core & Main LP	600-03460	METERS - TRANS & DI	L361998	20,435.00	3/4S IPERL	
121690	10/31/2019	EVANS PRINT & M	600-53900-906	CUSTOMER SERVICE	30522	70.00	9/23/19 HYDRANT FLUSH	
121690	10/31/2019	EVANS PRINT & M	600-53900-906	CUSTOMER SERVICE	30522	70.00	9/30/19 HYDRANT FLUSH	
121695	10/31/2019	Mid-American Rese	600-53650-665	MISC EXPENSES TRA	0677672-IN	135.62	BREAK A WAY PENETRAT	
121705	10/31/2019	The Hardware Store	600-53600-626	MISC EXPENSES PUM	A347066	5.67	PTO LOCKING PIN ROUN	
121705	10/31/2019	The Hardware Store	600-53600-626	MISC EXPENSES PUM	A347066	.57-	PTO LOCKING PIN ROUN	
121705	10/31/2019	The Hardware Store	600-53600-626	MISC EXPENSES PUM	B307607	7.41	HINGE NARROW	
121705	10/31/2019	The Hardware Store	600-53600-626	MISC EXPENSES PUM	B307607	.74-	HINGE NARROW	
121705	10/31/2019	The Hardware Store	600-53600-626	MISC EXPENSES PUM	B309364	58.94	HARDWARE	
121705	10/31/2019	The Hardware Store	600-53600-626	MISC EXPENSES PUM	B309364	5.89-	HARDWARE	
121707	10/31/2019	USA Blue Book	600-53630-641	CHEMICALS	049632	289.58	Ph BUFFER/IRON FERRO	
121707	10/31/2019	USA Blue Book	600-53630-643	MISC EXPENSES WAT	049632	377.41	COVERALLS/RED B GON	
121707	10/31/2019	USA Blue Book	600-53650-665	MISC EXPENSES TRA	049632	232.95	COUPLING/EYEWEAR	
121708	10/31/2019	USEMCO INC	600-53600-633	MAINTENANCE OF PU	IN00236	10,258.23	INSTALL HYDROPNEUMA	
121709	10/31/2019	Vierbicher Associate	600-01070	CONSTRUCTION WOR	0015 180042	2,312.42	CHESTER ST RECONSTR	
121711	10/31/2019	Walmart Community	600-53600-626	MISC EXPENSES PUM	TR# 01145	172.58	MOTOR OIL/BATTERIES	
121711	10/31/2019	Walmart Community	600-53630-643	MISC EXPENSES WAT	TR# 07543	23.52	GV CFP BL R	
121711	10/31/2019	Walmart Community	600-53630-643	MISC EXPENSES WAT	TR#00376	27.12	LTQ BLCH	
121712	10/31/2019	WE ENERGIES	600-53600-623	FUEL & POWER PURC	0072-378-771 10/19	79.37	GAS-STANNARD DR	
121712	10/31/2019	WE ENERGIES	600-53600-623	FUEL & POWER PURC	1265-324-026 10/19	13.18	GAS-ICECAP RD	
121712	10/31/2019	WE ENERGIES	600-53600-623	FUEL & POWER PURC	1494-782-965 10/19	232.51	GAS-2050 RILEY RD	

Check Number	Check Issue Date	Vendor Name	Invoice GL Account	Invoice GL Account Title	Invoice Number	Amount	Description
121712	10/31/2019	WE ENERGIES	600-53600-623	FUEL & POWER PURC	3691-118-861 10/19	116.59	GAS-TOWER ST
121712	10/31/2019	WE ENERGIES	600-53920-933	TRANSPORTATION	4203-487-249 10/19	14.22	GAS-N CHESTER ST BLD
121712	10/31/2019	WE ENERGIES	600-53920-933	TRANSPORTATION	8027-738-976 10/19	11.12	GAS-N CHESTER ST BLD
Grand Totals:						<u>48,131.36</u>	

## Report Criteria:

Journal Code.Journal code = "CDJE"

Account.Account number (3 Characters) = "700"

Date	Reference Number	Payee or Description	Account Number	Account Title	Debit Amount	Credit Amount
10/29/2019	1	to record debt payments	700-02370	INTEREST ACCRUED	6,061.30	
Total 1019:					6,061.30	.00
10/30/2019	8	to record gf amazon pmt	700-53830-250	CUSTODIAN SERVICES	33.71	
10/30/2019	13	to record gf amazon pmt	700-53830-250	CUSTODIAN SERVICES	105.99	
10/30/2019	69	to record gf amazon pmt	700-53830-250	CUSTODIAN SERVICES	14.80	
Total 1019:					154.50	.00
10/30/2019	21	to record gf amazon pmt	700-53830-273	TOOLS	109.54	
10/30/2019	22	to record gf amazon pmt	700-53830-273	TOOLS	158.62	
10/30/2019	53	to record gf amazon pmt	700-53830-273	TOOLS	88.00	
10/30/2019	59	to record gf amazon pmt	700-53830-273	TOOLS	54.30	
10/30/2019	64	to record gf amazon pmt	700-53830-273	TOOLS	315.00	
10/30/2019	73	to record gf amazon pmt	700-53830-273	TOOLS	196.48	
10/30/2019	74	to record gf amazon pmt	700-53830-273	TOOLS	79.75	
Total 1019:					1,001.69	.00
10/30/2019	23	to record gf amazon pmt	700-53830-340	OPERATING SUPPLIES	64.69	
10/30/2019	55	to record gf amazon pmt	700-53830-340	OPERATING SUPPLIES	35.74	
10/30/2019	56	to record gf amazon pmt	700-53830-340	OPERATING SUPPLIES	17.04	
10/30/2019	60	to record gf amazon pmt	700-53830-340	OPERATING SUPPLIES	33.71	
10/30/2019	63	to record gf amazon pmt	700-53830-340	OPERATING SUPPLIES	435.03	
10/30/2019	66	to record gf amazon pmt	700-53830-340	OPERATING SUPPLIES	98.96	
10/30/2019	68	to record gf amazon pmt	700-53830-340	OPERATING SUPPLIES	312.00	
10/30/2019	71	to record gf amazon pmt	700-53830-340	OPERATING SUPPLIES	36.03	
10/30/2019	81	to record gf amazon pmt	700-53830-340	OPERATING SUPPLIES	273.99	
Total 1019:					1,307.19	.00
10/30/2019	33	to record gf amazon pmt	700-53830-930	MISCELLANEOUS GENERAL EXPENS	15.99	
10/30/2019	34	to record gf amazon pmt	700-53830-930	MISCELLANEOUS GENERAL EXPENS	25.99	
10/30/2019	54	to record gf amazon pmt	700-53830-930	MISCELLANEOUS GENERAL EXPENS	7.47	
10/30/2019	70	to record gf amazon pmt	700-53830-930	MISCELLANEOUS GENERAL EXPENS	27.16	
Total 1019:					76.61	.00
10/30/2019	24	to record gf amazon pmt	700-53870-210	PROFESSIONAL SERVICES	78.30	
Total 1019:					78.30	.00
10/30/2019	57	to record gf amazon pmt	700-53870-240	REPAIRS & MAINTENANCE	162.00	
10/30/2019	61	to record gf amazon pmt	700-53870-240	REPAIRS & MAINTENANCE	25.26	
10/30/2019	67	to record gf amazon pmt	700-53870-240	REPAIRS & MAINTENANCE	141.45	
10/30/2019	72	to record gf amazon pmt	700-53870-240	REPAIRS & MAINTENANCE	42.54	
10/30/2019	75	to record gf amazon pmt	700-53870-240	REPAIRS & MAINTENANCE	53.22	
10/30/2019	76	to record gf amazon pmt	700-53870-240	REPAIRS & MAINTENANCE	11.80	
10/30/2019	78	to record gf amazon pmt	700-53870-240	REPAIRS & MAINTENANCE	31.30	
10/30/2019	79	to record gf amazon pmt	700-53870-240	REPAIRS & MAINTENANCE	29.53	
10/30/2019	80	to record gf amazon pmt	700-53870-240	REPAIRS & MAINTENANCE	73.71	

Date	Reference Number	Payee or Description	Account Number	Account Title	Debit Amount	Credit Amount
Total 1019:					570.81	.00
10/30/2019	7	to record gf amazon pmt	700-53870-340	OPERATING SUPPLIES	21.79	
10/30/2019	58	to record gf amazon pmt	700-53870-340	OPERATING SUPPLIES	20.98	
10/30/2019	77	to record gf amazon pmt	700-53870-340	OPERATING SUPPLIES	84.00	
Total 1019:					126.77	.00
10/30/2019	9	to record gf amazon pmt	700-53920-310	OFFICE SUPPLIES	249.99	
10/30/2019	25	to record gf amazon pmt	700-53920-310	OFFICE SUPPLIES	58.58	
10/30/2019	27	to record gf amazon pmt	700-53920-310	OFFICE SUPPLIES	95.37	
10/30/2019	62	to record gf amazon pmt	700-53920-310	OFFICE SUPPLIES	65.34	
10/30/2019	65	to record gf amazon pmt	700-53920-310	OFFICE SUPPLIES	15.88	
Total 1019:					485.16	.00
Grand Totals:					9,862.33	.00

Report Criteria:

Journal Code.Journal code = "CDJE"

Account.Account number (3 Characters) = "700"

Date	Reference Number	Payee or Description	Account Number	Account Title	Debit Amount	Credit Amount
10/30/2019	49	to record gf amazon pmt	100-51210-340	OPERATING SUPPLIES	130.98	
Total 1019:					130.98	.00
10/30/2019	32	to record gf amazon pmt	100-51520-340	OPERATING SUPPLIES	17.99	
10/30/2019	37	10051520340	100-51520-340	OPERATING SUPPLIES	187.99	
10/30/2019	38	10051520340	100-51520-340	OPERATING SUPPLIES	10.99	
10/31/2019	90	to record monthly activity	100-51520-340	OPERATING SUPPLIES	20.00	
10/31/2019	94	to record monthly activity	100-51520-340	OPERATING SUPPLIES	5.00	
10/31/2019	95	adjust to balance	100-51520-340	OPERATING SUPPLIES	.45	
Total 1019:					242.42	.00
10/30/2019	51	to record gf amazon pmt	100-51600-340	OPERATING SUPPLIES	23.30	
Total 1019:					23.30	.00
10/30/2019	39	10051520340	100-52100-310	OFFICE SUPPLIES	27.58	
10/30/2019	41	10051520340	100-52100-310	OFFICE SUPPLIES	157.18	
10/30/2019	43	10051520340	100-52100-310	OFFICE SUPPLIES	10.70	
Total 1019:					195.46	.00
10/30/2019	10	to record gf amazon pmt	100-52100-340	OPERATING SUPPLIES	22.01	
10/30/2019	40	10051520340	100-52100-340	OPERATING SUPPLIES	28.74	
Total 1019:					50.75	.00
10/30/2019	14	to record gf amazon pmt	100-52100-393	UNIFORMS	26.79	
10/30/2019	15	to record gf amazon pmt	100-52100-393	UNIFORMS	43.24	
10/30/2019	16	to record gf amazon pmt	100-52100-393	UNIFORMS	64.95	
10/30/2019	42	10051520340	100-52100-393	UNIFORMS	158.20	
Total 1019:					293.18	.00
10/30/2019	44	10051520340	100-52400-310	OFFICE SUPPLIES	20.03	
10/30/2019	46	10051520340	100-52400-310	OFFICE SUPPLIES	40.05	
Total 1019:					60.08	.00
10/30/2019	20	to record gf amazon pmt	100-53230-340	OPERATING SUPPLIES	37.93	
10/30/2019	45	10051520340	100-53230-340	OPERATING SUPPLIES	15.80	
Total 1019:					53.73	.00
10/30/2019	18	to record gf amazon pmt	100-53230-391	TELEPHONE	13.99	
10/30/2019	19	to record gf amazon pmt	100-53230-391	TELEPHONE	13.99	
Total 1019:					27.98	.00
10/30/2019	17	to record gf amazon pmt	100-53300-340	OPERATING SUPPLIES	27.99	
Total 1019:					27.99	.00
10/30/2019	47	10051520340	100-55340-310	OFFICE SUPPLIES	21.83	
10/30/2019	85	to record gf amazon pmt	100-55340-310	OFFICE SUPPLIES	79.88	

Date	Reference Number	Payee or Description	Account Number	Account Title	Debit Amount	Credit Amount
Total 1019:					101.71	.00
10/30/2019	12	to record gf amazon pmt	100-55340-340	OPERATING SUPPLIES	52.73	
10/30/2019	36	to record gf amazon pmt	100-55340-340	OPERATING SUPPLIES	412.00	
10/30/2019	50	to record gf amazon pmt	100-55340-340	OPERATING SUPPLIES	23.98	
10/30/2019	84	to record gf amazon pmt	100-55340-340	OPERATING SUPPLIES	13.99	
10/30/2019	87	to record gf amazon pmt	100-55340-340	OPERATING SUPPLIES	160.45	
10/31/2019	89	to record monthly activity	100-55340-340	OPERATING SUPPLIES	28.41	
10/31/2019	92	to record monthly activity	100-55340-340	OPERATING SUPPLIES	49.36	
10/31/2019	93	to record monthly activity	100-55340-340	OPERATING SUPPLIES	56.84	
Total 1019:					797.76	.00
10/30/2019	35	to record gf amazon pmt	100-55420-240	REPAIRS & MAINTENANCE	39.96	
Total 1019:					39.96	.00
10/31/2019	91	to record monthly activity	100-59400-000	MISC EXPENSES	867.25	
Total 1019:					867.25	.00
10/30/2019	48	40054020535	402-54020-535	COMPUTERS	547.99	
Total 1019:					547.99	.00
Grand Totals:					3,460.54	.00

## Report Criteria:

Journal Code.Journal code = "CDJE"

Account.Account number (3 Characters) = "600"

Date	Reference Number	Payee or Description	Account Number	Account Title	Debit Amount	Credit Amount
10/29/2019	2	to record debt payments	600-02370	INTEREST ACCRUED	5,043.83	
Total 1019:					5,043.83	.00
10/30/2019	30	to record gf amazon pmt	600-53650-665	MISC EXPENSES TRANS & DISTR	55.19	
10/30/2019	52	to record gf amazon pmt	600-53650-665	MISC EXPENSES TRANS & DISTR	83.31	
Total 1019:					138.50	.00
10/30/2019	26	to record gf amazon pmt	600-53900-905	MISC CUSTOMER ACCOUNTS EXP	95.36	
Total 1019:					95.36	.00
10/30/2019	28	to record gf amazon pmt	600-53920-933	TRANSPORTATION	58.99	
Total 1019:					58.99	.00
Grand Totals:					5,336.68	.00

US Cellular has completed a set of drawings and the structural for their equipment modification proposal at the WT. These are attached as well as a draft Amendment for your review.

**Existing Loading:**

- (6) Existing RWA-80014 Antennas to Remain, along with (6) Existing 1-5/8" Coax
- (3) Existing RRUs-11 to Remain
- (2) Existing Raycap units to Remain, along with (2) Existing Hybrid Lines
- *(9) Existing RRUs-11 to be Removed*
- *(12) Existing Diplexers to be Removed*
- *(6) Existing AM-X-CW-17-65 LTE Antennas to be Removed*

**Proposed Loading:**

- (6) Proposed Dengyo OCT9-2LX2HX-HG65 Modernization Panel Antennas
- (3) Proposed B71/B12 RRU-4449 Radios
- (3) Proposed B2/B4 RRU-8843 Radios
- (1) Proposed Raycap SPDs
- (1) Proposed Power Cable
- 

Final configuration: (12) antenna, (6) 1-5/8" coax, (9) RRU, (3) Raycap and (3) 1-1/4" hybrid cable.

**THIRD AMENDMENT TO OPTION TOWER AND GROUND SPACE LEASE**

This Third Amendment to Option Tower and Ground Space Lease (“Amendment”), made this \_\_\_\_\_ day of \_\_\_\_\_, 2019, modifies that Option Tower and Ground Space lease by and between the City of Sparta, a Wisconsin municipal corporation, having an address at 201 West Oak Street, Sparta, Wisconsin, 54656 (“hereinafter referred to a “Landlord”) and United States Cellular Operating Company LLC, a Delaware limited liability company, Attention: Real Estate Lease Management, 8410 West Bryn Mawr Avenue, Chicago, Illinois, 60631, (hereinafter referred to as “Tenant”).

WHEREAS, Landlord and Tenant entered into an Option Tower and Ground Space Lease on the 14<sup>th</sup> day of July, 2006 as amended by the First Amendment to Option Tower and Ground Space lease on the 22<sup>nd</sup> day of February 2012 as amended by the Second Amendment to Option Tower and Ground Space Lease on the 4<sup>th</sup> day of May, 2017 (collectively, the “Lease”) for the purpose of leasing space on the Village water tower and ground space adjacent to the water tower (collectively, the “Premises”), located on a parcel of land at 490 Avon Road in Sparta Wisconsin for the operation of a mobile cellular telecommunications facility; and,

WHEREAS, the Tenant needs to modify the equipment (“Modifications”) located on the premises and the Landlord will consent to said Modifications; and,

WHEREAS, the Parties wish to document Tenant’s intended changes to equipment at said Site.

NOW, THEREFORE, in consideration of the terms of this Amendment and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Landlord and Tenant agree as follows

- I. Lease Exhibit B-2 is hereby deleted and replaced with the attached Exhibit B-3 attached hereto and incorporated herein.
- II. Except as amended herein, all other terms of the Lease remain unchanged and in full force and effect.

[END OF AMENDMENT - SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, Landlord and Tenant have executed this Three Amendment as of the last signature date below.

LANDLORD:

TENANT:

By: \_\_\_\_\_

By: \_\_\_\_\_

Printed: \_\_\_\_\_

Printed: \_\_\_\_\_

Title: \_\_\_\_\_

Title: Vice President

Date: \_\_\_\_\_

Date: \_\_\_\_\_

STATE OF WISCONSIN )  
 )  
COUNTY OF MONROE )

I, the undersigned, a notary public in and for the State and County aforesaid, do hereby certify that (and), known to me to be the same person(s) whose name(s) (is) (are) subscribed to the foregoing Third Amendment to Option Tower and Ground Space Lease, appeared before me this day in person and (severally)acknowledged that (he) (she) (they) signed the said Lease as (his) (her) (their) free and voluntary act for the uses and purposes therein stated.

Given under my hand and seal this \_\_\_\_ day of \_\_\_\_\_, 2019.

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_



**EXHIBIT B-3**

SITE: Sparta WT    Site #: 774424    FCC REGISTRATION #  
TENANT NAME: Racine Cellular Telephone Company    TEL #: 866-520-2066  
CONTACT: NOC

ANTENNA INFORMATION

Type of antenna: Panel    Make: Dengyo  
Model: OCT8-2LX2HX    How many antennas 6    Weight: 85 lbs each  
Height: 95"  
Usage: Transmit only    Receive only    Transmit & Receive 6

Mounting Brackets, Mounting Height & Mounting Orientation: Mast pipes on handrail

Transmission line Mfg. & Type No: 6 lines 1 5/8" diameter

Type of antenna: Panel    Make: Amphenol  
Model: RWA-80014    How many antennas 6    Weight: 14 lbs each  
Height: 48"  
Usage: Transmit only    Receive only    Transmit & Receive 6

Mounting Brackets, Mounting Height & Mounting Orientation: Mast pipes on handrail

Transmission line Mfg. & Type No: 3 lines 1 1/4" diameter

I. Interference Suppression Equipment (specify in detail & attach specifications for any isolators, circulators, filters, intermodulation suppression panels, duplexers, etc.)

B71/B12 Remote Radio Unit Qty 3 Weight 70lbs ea  
R2/R4 Remote Radio Unit Qty 3 Weight 75lbs ea

II. Other RF Equipment (specify and include AC Surge and Lightning Arrestor Power, Telephone & Transmission line devices)

3 Raycap SPD surge device Qty 3 Weight 19lbs ea

III. Other Equipment (specify all other improvements, company property & personal property located at the site)

TENANT'S Equipment:

Building or Cabinet: (circle one) BUILDING

Size: 12 x 20

Type: Cellxion pre-form

Location:

Amount of Land required for building or cabinet: 20 x 30 leased parcel

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Is Emergency Power provided by  
LANDLORD:

YES

NO

Account #		2017 Actual	2018 Actual	2019 Budget	2019 Est	2020 Budget
<b>ACCRUAL EXPENSES</b>						
700-53400-403	Depreciation	\$ 774,951.24	\$ 807,054.21	\$ 755,000.00	\$ 750,000.00	\$ 750,000.00
700-53400-408	Taxes	\$ 335,599.36	\$ 330,868.36	\$ 357,000.00	\$ 350,000.00	\$ 350,000.00
700-53400-426	Other Income Deductions	\$ 16,312.77	\$ 17,183.47	\$ 18,000.00	\$ 18,000.00	\$ 18,000.00
700-53400-427	Interest on LT Debt	\$ -	\$ -	\$ -	\$ 12,640.00	\$ 10,750.00
<b>WWTP LABOR</b>						
700-53800-120	Salaries	\$ 241,461.12	\$ 243,490.59	\$ 230,000.00	\$ 240,000.00	\$ 250,000.00
<b>POWER &amp; FUEL</b>						
700-53810-220	Electric	\$ 104,025.69	\$ 89,460.73	\$ 110,000.00	\$ 103,000.00	\$ 110,000.00
700-53810-221	Heating - Gas	\$ 6,692.96	\$ 12,207.93	\$ 9,000.00	\$ 12,000.00	\$ 10,000.00
700-53810-222	Sewer/Water	\$ 16,948.35	\$ 20,965.66	\$ 20,000.00	\$ 20,000.00	\$ 20,000.00
700-53810-223	Diesel Fuel	\$ 2,753.80	\$ 1,937.85	\$ 2,500.00	\$ 1,500.00	\$ 1,500.00
<b>CHEMICALS</b>						
700-53820-823	Chlorine Gas	\$ -	\$ -	\$ -	\$ -	
700-53820-824	Ferric Chloride	\$ 60,947.39	\$ 55,905.60	\$ 70,000.00	\$ 70,000.00	\$ 60,000.00
700-53820-825	Sludge Thickening Polymer Chem	\$ 23,357.50	\$ 14,094.50	\$ 28,000.00	\$ 15,000.00	\$ 20,000.00
700-53820-826	HCL Gas	\$ 1,263.68	\$ -	\$ 2,000.00	\$ -	\$ -
700-53820-827	S02 Gas	\$ -	\$ -	\$ -	\$ -	\$ -
700-53820-828	Sodium Hydroxide	\$ -	\$ -	\$ -	\$ -	\$ -
<b>OPERATING SUPPLIES</b>						
700-53830-210	Professional Services	\$ 1,192.00	\$ 1,200.64	\$ 2,000.00	\$ 1,400.00	\$ 20,000.00
700-53830-250	Custodian Services	\$ 252.49	\$ 561.88	\$ 800.00	\$ 900.00	\$ 800.00
700-53830-273	Tools	\$ 449.74	\$ 253.16	\$ 200.00	\$ 5,500.00	\$ 4,000.00
700-53830-274	Lubricants	\$ 71.38	\$ 355.92	\$ 600.00	\$ 1,600.00	\$ 1,000.00
700-53830-325	Safety Program	\$ 620.67	\$ 644.02	\$ 600.00	\$ 1,000.00	\$ 1,000.00
700-53830-340	Operating supplies	\$ 3,323.81	\$ 5,289.43	\$ 5,000.00	\$ 5,300.00	\$ 5,000.00
700-53830-923	Outside services	\$ 106,759.50	\$ 87,237.90	\$ 100,000.00	\$ 80,000.00	\$ 105,000.00
700-53830-930	Miscellaneous	\$ 1,166.72	\$ 5,033.41	\$ 1,200.00	\$ 33,000.00	\$ 4,000.00
<b>TRANSPORTATION EXPENSE</b>						
700-53840-240	Repairs & Maintenance	\$ 759.20	\$ 1,646.69	\$ 1,200.00	\$ 22,000.00	\$ 5,000.00
700-53840-371	Gas/Oil	\$ 2,778.26	\$ 3,430.37	\$ 3,000.00	\$ 3,000.00	\$ 3,000.00
<b>COLLECTION SYSTEM</b>						
700-53850-120	Salaries	\$ 18,386.09	\$ 20,614.15	\$ 18,500.00	\$ 18,500.00	\$ 18,500.00
700-53850-210	Professional Services	\$ -	\$ -	\$ -	\$ -	\$ -
700-53850-240	Repairs & Maintenance	\$ 4,813.09	\$ 28,492.42	\$ 8,000.00	\$ 15,000.00	\$ 10,000.00
700-53850-810	Outlay	\$ 18,725.13	\$ 18,778.24	\$ 18,000.00	\$ 18,000.00	\$ 18,000.00
<b>LIFT STATION EXPENSES</b>						
700-53860-120	Salaries	\$ 2,795.33	\$ 4,493.31	\$ 3,900.00	\$ 39,000.00	\$ 3,000.00
700-53860-340	Operating Supplies	\$ 37,558.08	\$ 30,287.67	\$ 24,000.00	\$ 24,000.00	\$ 20,000.00
<b>MAINTENANCE OF WWTP</b>						
700-53870-210	Professional Services	\$ 38,029.52	\$ 11,624.33	\$ 9,800.00	\$ 12,000.00	\$ 12,000.00
700-53870-240	Repairs & Maintenance	\$ 47,204.89	\$ 32,666.30	\$ 30,000.00	\$ 40,000.00	\$ 35,000.00
700-53870-340	Operating Supplies	\$ 76,030.90	\$ 18,260.13	\$ 500.00	\$ 10,000.00	\$ 2,000.00
<b>MAINTENANCE OF PLANT</b>						
700-53880-348	Grounds Maintenance	\$ 827.19	\$ 39,977.91	\$ 500.00	\$ 15,000.00	\$ 2,000.00
<b>ADMINISTRATIVE &amp; GENERAL EXPENSE</b>						
700-53920-120	Salaries	\$ 73,805.82	\$ 64,987.26	\$ 71,500.00	\$ 72,000.00	\$ 98,000.00
700-53920-210	Professional Services	\$ 112,282.26	\$ 114,966.55	\$ 150,000.00	\$ 100,000.00	\$ 150,000.00
700-53920-225	Building Rent	\$ 1,800.00	\$ 1,800.00	\$ 1,800.00	\$ 1,800.00	\$ 1,800.00
700-53920-279	Equipment Rent	\$ -	\$ -	\$ -	\$ -	\$ -
700-53920-280	USGS River Station Annual Fee	\$ -	\$ -	\$ -	\$ -	\$ -
700-53920-310	Office Supplies	\$ 2,848.07	\$ 14,574.62	\$ 7,800.00	\$ 7,800.00	\$ 7,000.00

Account #		2017 Actual	2018 Actual	2019 Budget	2019 Est	2020 Budget
700-53920-320	Publication/Seminars	\$ 719.55	\$ 1,980.28	\$ 1,500.00	\$ 2,500.00	\$ 12,000.00
700-53920-342	Postage	\$ 4,178.27	\$ 4,590.56	\$ 5,000.00	\$ 5,000.00	\$ 3,000.00
700-53920-391	Telephone	\$ 4,027.36	\$ 3,870.17	\$ 5,100.00	\$ 5,100.00	\$ 4,000.00
700-53920-393	Uniforms	\$ 1,348.58	\$ 1,387.71	\$ 1,400.00	\$ 1,400.00	\$ 1,400.00
700-53920-510	Insurance	\$ 26,657.38	\$ 26,195.81	\$ 30,000.00	\$ 30,000.00	\$ 30,000.00
700-53920-810	Outlay	\$ 21,643.93	\$ 20,530.69	\$ 25,000.00	\$ 25,000.00	\$ 25,000.00
700-53920-904	Uncollectible Accounts	\$ -	\$ -	\$ -	\$ -	\$ -
700-53920-926	Employee Benefits	\$ 119,848.76	\$ 141,979.73	\$ 124,000.00	\$ 124,000.00	\$ 135,000.00
700-53920-928	Regulatory Commission	\$ 8,940.79	\$ 9,853.99	\$ 8,950.00	\$ 9,600.00	\$ 9,000.00
700-53920-930	Miscellaneous	\$ 2,117.75	\$ 3,095.93	\$ 2,000.00	\$ 2,000.00	\$ 2,000.00
700-53920-940	Debt Issuance Costs	\$ -	\$ 7,500.00	\$ -	\$ -	\$ -
		\$ 2,326,276.37	\$ 2,321,330.08	\$ 2,263,350.00	\$ 2,323,540.00	\$ 2,347,750.00
	<b>Capital Improvements</b>					
	Replacement Fund	\$ 58,600.00	\$ 58,600.00	\$ 58,600.00	\$ 58,600.00	\$ 58,600.00
	Principal Loan Payments	\$ -	\$ -	\$ -	\$ 23,958.00	\$ 31,670.00
	Capital improvements	\$ 1,203.92	\$ 10,923.11	\$ 50,000.00	\$ 11,240.00	\$ -
	Digester mech Agitation					\$ 130,000.00
	Methane flare control system					\$ 50,000.00
	Raw sample bldg relocation					\$ 12,000.00
	Sewer Camera system					\$ 90,000.00
	Blower #4 upgrade					\$ 20,000.00
	RAW/WAS control auto					\$ 15,000.00
	Mower		\$ 13,253.05			
	Sludge Truck replacement	\$ 70,074.50	\$ 26,469.43			
	Lift Station Upgrades		\$ 877,295.20		\$ 7,219.31	
	Retention pond (west of Goodman Ct area) (included with 700-53920-210)	\$ 33,490.16	\$ 33,734.16	\$ 33,000.00	\$ 33,000.00	
	2017 Street projects (Central Ave-Blk Rvr to Grace)	\$ 112,878.46				
	2018 Street projects(Hwy 27S, Robrts Rd, Chester)		\$ 311,131.63			
	2019 Street projects (Chester: Oak-Pine,Pine-Montg)			\$ 120,000.00	\$ 194,000.00	
		\$ 163,368.58	\$ 1,020,274.95	\$ 261,600.00	\$ 134,017.31	\$ 407,270.00

## List of Capital Improvement Projects for 2020

Project	Estimated Cost	Reason	Weight	Level of importance
Digester mechanical agitation	130,000	Replace inoperable one, operationally very unstable, methane production very unsafe	Safety, environmental, severe process issue	
Methane flare control system	50,000	Replace inoperable one, methane control and emissions very unsafe	Safety, environmental, process, city liability	
RAS/WAS control auto-	15,000	Replace WAS valves, currently operating manual and is very inefficient in operation controls. Extremely difficult to keep effective micro-organism population in plant:	Process control, effective treatment, Lift station loading of the Raw and RAS. Cyclical loading produces feast and famine loading.	
Blower #4 upgrade	20,000 See EE audit	Immediate energy savings with a < 12month ROI	Energy efficiency, estimated 10k for equip and 10K setup	
Raw sample building relocation	12,000	Rewire/relocate for intrinsic safety	Safety, explosion hazard, city liability	
Sewer Camera system	90,000	Replace non-operable one, Ability to fix in-place with sleeves and lengthen collector piping LCA	City liability	

**Total            317,000**

RAW/RAS VFDs	100,000	VFDs to improve energy savings and treatment process retentions/micro life treatment	Process control, energy savings, process issue	3
Blower VFD/motor upgrade	100,000-250,000	Still determining if motors, blowers can be replaced separately or replace whole unit. Running one blower doesn't supply the minimum mixing requirements for AS basins.	Process control, energy savings, process issue	3 2-3 yr plan
RAS mixer	15,000	Replace non-operational mixer	DNR, environmental, nutrient removal for N and allows a starter for BIO-P removal	4
Osborne Liftstation upgrade	80,000	Failing pumps and control pan	City liability, environmental	4
Spill containment area for leachate and receiving	50,000	Non-existent, prevent costly spills (previous spills not reported)	City liability, environmental	4

Dale Passehl  
Sparta Sanitation/WWTP Manager

## City of Sparta Wastewater Treatment Energy Assessment

October 2019

### Energy Efficiency Program Overview:

The Wisconsin Rural Water Association has implemented a program to assist water and wastewater utility systems to evaluate and lower their energy consumption and costs. This energy efficiency assessment considers current and past energy use, identifies the primary energy consuming components, and identifies methods to lower energy use and costs.

The Energy Efficiency program will include a visit at the treatment plant site and a thorough audit of existing systems at the plant. Then an analysis of the gathered data is examined and recommendations for energy savings can be made. WRWA will then provide any funding that may be available. These data can provide decision makers with information to make an informed decision on future energy conservation projects.

### UTILITY INFORMATION

Utility Name: City of Sparta WWTP  
Address: 805 Richgruber Road  
Sparta, WI 54656  
Plant Contact: Dale Passehl  
Phone #: (608) 633-0118  
Email: [wwtp@spartawisconsin.org](mailto:wwtp@spartawisconsin.org)

Assessor: Tony Roche  
Phone #: (715) 572-9009  
Email: [troche@wrwa.org](mailto:troche@wrwa.org)  
Assessment Date: 10/2/2019

### Executive Summary of Potential Energy/Money Savings

The City of Sparta WWTP uses an activated sludge process for treating approximately 450 million gallons of wastewater per year. An energy assessment was done on October 2, 2019. Mr. Tony Roche, WRWA Energy Efficiency Circuit Rider assessed the plant by having the plant superintendent, Mr. Dale Passehl, take him through the plant to look over all electrical equipment, pumps, HVAC and lighting. An analysis was performed by Mr. Roche using the EPA Energy Use Assessment tool and an Energy Saving tool provided by a private vendor. Following are the results of the audit:

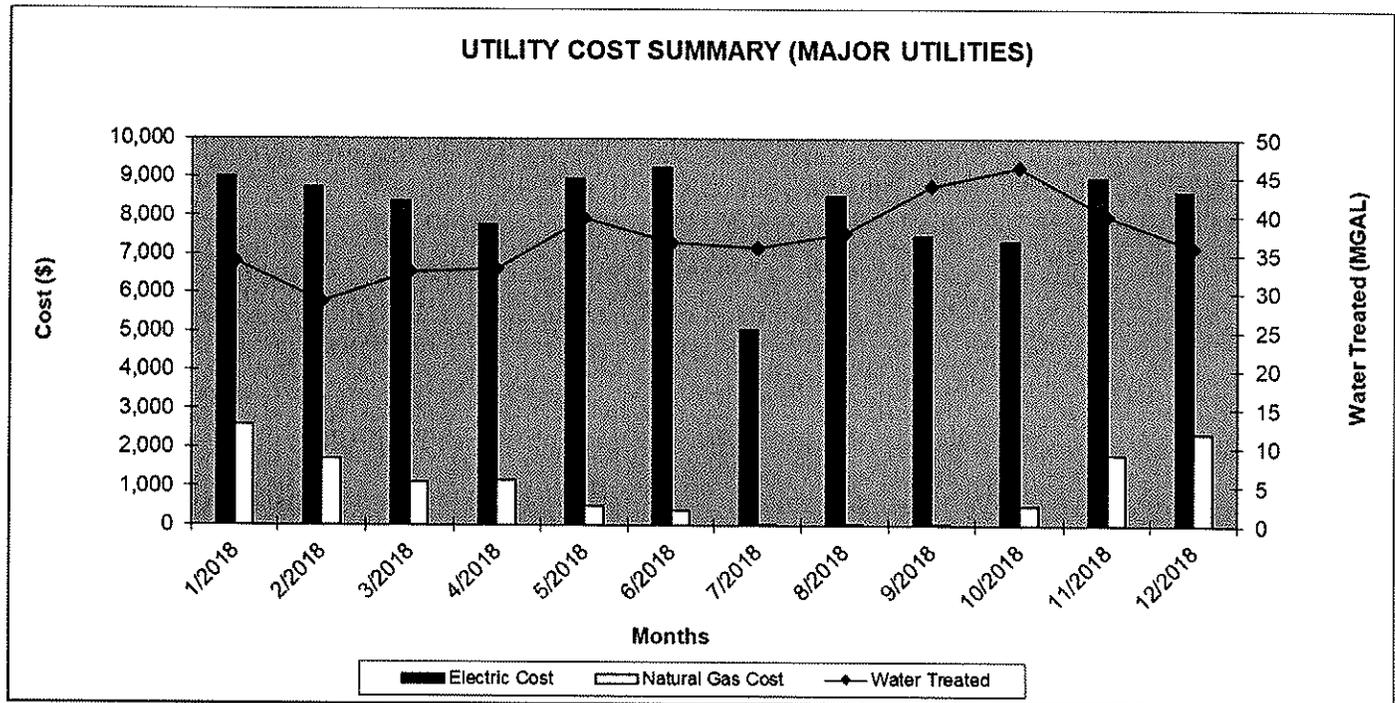
**Table 1: TABULATED UTILITY USE, COST AND WASTEWATER TREATMENT FLOW SUMMARY FOR 2018**

Utility	Site Utility Use (Common Units)	Site Utility Costs	% of Costs
Electricity	1,240,238 kWh	\$98,086	75%
Natural Gas*	18,990 CCF	\$12,208	9%
No 2 Fuel Oil*	0 CCF	\$0	0%
Water & Sewer*	Unknown	\$20,965	16%
Alternative Energy*	0	\$0	0%
Other - *	0	\$0	0%
<b>Total</b>		<b>\$131,259</b>	<b>100%</b>

\* The values displayed for this category may be using data from previous months other than the above specified date ranges.

Plant Annual Water Treatment Flow (MGAL/Year)	445
Plant Average Water Treatment Flow (MGAL/Month)	37
Plant Average Energy Cost Per Million Gallons Water Treated (\$/MGAL)	\$295.13

Table 1 represents the annual energy usage and operating cost for the City of Sparta wastewater treatment plant. The table was created using the 2018 CMAR report and 2018 utility bills.



**Figure 1: WASTEWATER TREATMENT PLANT UTILITY COST SUMMARY FOR 2018**

Figure 1 represents the 2018 utility cost summary for the City of Sparta wastewater treatment plant. The greatest electrical costs occurred in the months of January and June.

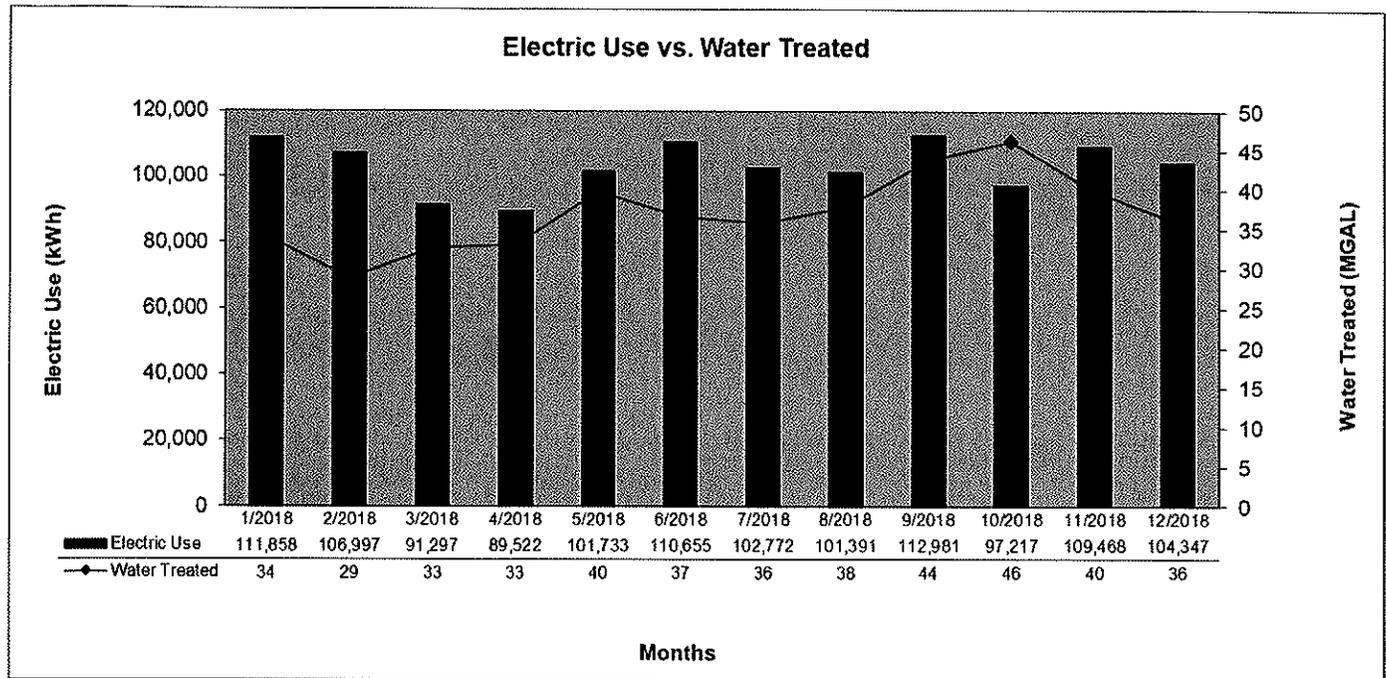


Figure 2: MONTHLY ELECTRICAL USAGE vs. WATER TREATED

Figure 2 shows monthly electrical usage at the City of Sparta WWTP. The greatest electrical consumption occurred in the months of January and September, while the least electrical consumption occurred in March and April.

Table 2. DISTRIBUTION OF ELECTRICAL ENERGY USE & COST BY MAJOR PROCESS FOR 2018

Major Process/Top Energy Use Systems	Electric Energy Use (%)	Electric Energy Use (kWh)	Electric Energy Cost (\$)
#1 SECONDARY TREATMENT	70.46%	873,879	\$69,112
#2 INFLUENT PUMPING	15.15%	187,928	\$14,863
#3 ANAEROBIC DIGESTION	4.45%	55,245	\$4,369
#4 SLUDGE HANDLING	2.22%	27,487	\$2,174
#5 INTERNAL PLANT PUMPING	2.02%	25,095	\$1,985
Balance of Plant Identified	94.31%	1,169,634	\$92,502
Balance of Plant Unidentified	5.69%	70,604	\$5,584
Total	100.00%	1,240,238	\$98,086

Table 2 represents the estimated distribution of electrical energy costs for the City of Sparta WWTP. Greater than 70 percent of the electrical energy costs are from secondary treatment. The software program used to create these figures accounted for over 94 percent of electrical usage and cost at the WWTP.

**Project Overview:**

The City of Sparta Wastewater Treatment Facility utilizes an activated sludge process that includes preliminary/primary treatment, sludge thickening, anaerobic digestion, final clarification, a ferric chloride chemical feed system for phosphorus removal, sludge storage, and UV disinfection. Raw wastewater enters the plant and flows through a vertical fine screen and a grit collection system. After screening and grit removal the wastewater is pumped by 1 of 5 lift pumps to 1 of 4 primary clarifiers. After primary clarification wastewater then flows into aeration basins. Aeration basins are aerated by 3 aerators. 2 of the 3 aerators are equipped with variable frequency drives (VFD) and adjust motor frequency in order to maintain a 2 mg/L dissolved oxygen setpoint. The third aerator is not equipped with a VFD. Mixed liquor from the aeration basins then flows into 1 of 2 circular final clarifiers. Final effluent then gravity flows to a UV disinfection channel. UV disinfection is in service from May 1 to September 30, per the terms of the City of Sparta WPDES permit. After disinfection final effluent is discharged to the La Crosse River. Waste activated sludge is co-thickened with primary sludge by a gravity belt thickener. Co-thickened sludge is then transferred to 1 of 2 anaerobic digesters. Digested sludge is then sent to a sludge storage tank where it is stored until it is land applied every spring and fall.

The City of Sparta WWTP serves a non-transient population of 9,522. The plant processes approximately 450 million gallons of sewage per year.

**Energy Efficiency Observations/Opportunities:**

After a detailed inspection of the facility, the following major energy consuming systems were observed:

**Table 3. EQUIPMENT INVENTORY: BREAKDOWN OF ANNUAL ELECTRICAL ENERGY USE AND COST FOR MAJOR/ENERGY INTENSIVE EQUIPMENT**

Major Process/Top Energy Use Systems	Motor Efficiency (%)	Efficiency Rating	Electric Energy Use (%)	Electric Energy Use (kWh)	Electric Energy Cost (\$)
<b>Anaerobic Digestion</b>					
Pump - Digested Sludge TX Pump	86.5	Medium	0.86%	10,624	\$840.22
Pump - Digested Sludge TX Pump	86.5	Medium	0.86%	10,624	\$840.22
Pump - Recirc Pump 1	86.5	Medium	1.37%	16,998	\$1,344.35
Pump - Recirc Pump 2	86.5	Medium	1.37%	16,998	\$1,344.35
<b>Influent Pumping</b>					
Mixer - Influent Wetwell Mixer	84.5	Low	1.12%	13,921	\$1,100.93
Pump - Influent Pump 1	84.5	Low	1.56%	19,334	\$1,529.07
Pump - Influent Pump 2	84.5	Low	1.56%	19,334	\$1,529.07
Pump - Influent Pump 3	84.5	Low	1.56%	19,334	\$1,529.07
Pump - Influent Pump 4	84.5	Low	4.68%	58,003	\$4,587.22
Pump - Influent Pump 5	84.5	Low	4.68%	58,003	\$4,587.22
<b>Internal Plant Pumping</b>					
Pump - Trickling Filter Recirc 1	84.5	Low	1.17%	14,501	\$1,146.81
Pump - Trickling Filter Recirc 2	84.5	Low	0.85%	10,594	\$837.85
<b>Primary Treatment</b>					
Compressor - Air Compressor 1	85	Medium	0.29%	3,604	\$285.02
Compressor - Air Compressor 2	85	Medium	0.29%	3,604	\$285.02
Drive - North Sludge Collector	74	Low	0.27%	3,312	\$261.91
Drive - South Sludge Collector	74	Low	0.27%	3,312	\$261.91
<b>Secondary Treatment</b>					
Blower - Aeration Blower 1	88.5	Medium	1.12%	13,845	\$1,094.97
Blower - Aeration Blower 2	88.5	Medium	1.12%	13,845	\$1,094.97
Blower - Aeration Blower 3	88.5	Medium	0.27%	3,287	\$259.99
Blower - Aeration Blower 4	86	Medium	34.46%	427,432	\$33,804.11
Blower - Aeration Blower 5	86	Medium	17.23%	213,716	\$16,902.05
Blower - Aeration Blower 6	86	Medium	3.15%	39,035	\$3,087.13
Mixer - RAS Wetwell Mixer	84.5	Low	0.56%	6,960	\$550.47
Pump - Ferric Chloride Feed	70	Low	0.28%	3,501	\$276.87
Pump - RAS Pump 6	84.5	Low	1.46%	18,126	\$1,433.51
Pump - RAS Pump 7	84.5	Low	4.68%	58,003	\$4,587.22
Pump - RAS Pump 8	84.5	Low	1.46%	18,126	\$1,433.51
Pump - RAS Pump 9	84.5	Low	4.68%	58,003	\$4,587.22

Table 3 gives an estimated inventory break down of The City of Sparta wastewater treatment system. The main consumers of electricity at the plant are aeration blowers 4 and 5. Aeration blower 4 is not VFD-driven and operates at full power for 24 hours per day and 365 days per year. Aeration blower 5 is VFD-driven and operates by attempting to maintain a 2.0 mg/L dissolved oxygen setpoint in the aeration basins. However, dissolved oxygen levels in the aeration basins fluctuate from 1.0 mg/L to 6.0 mg/L due to the SCFM output required to maintain adequate mixing in the aeration basins.

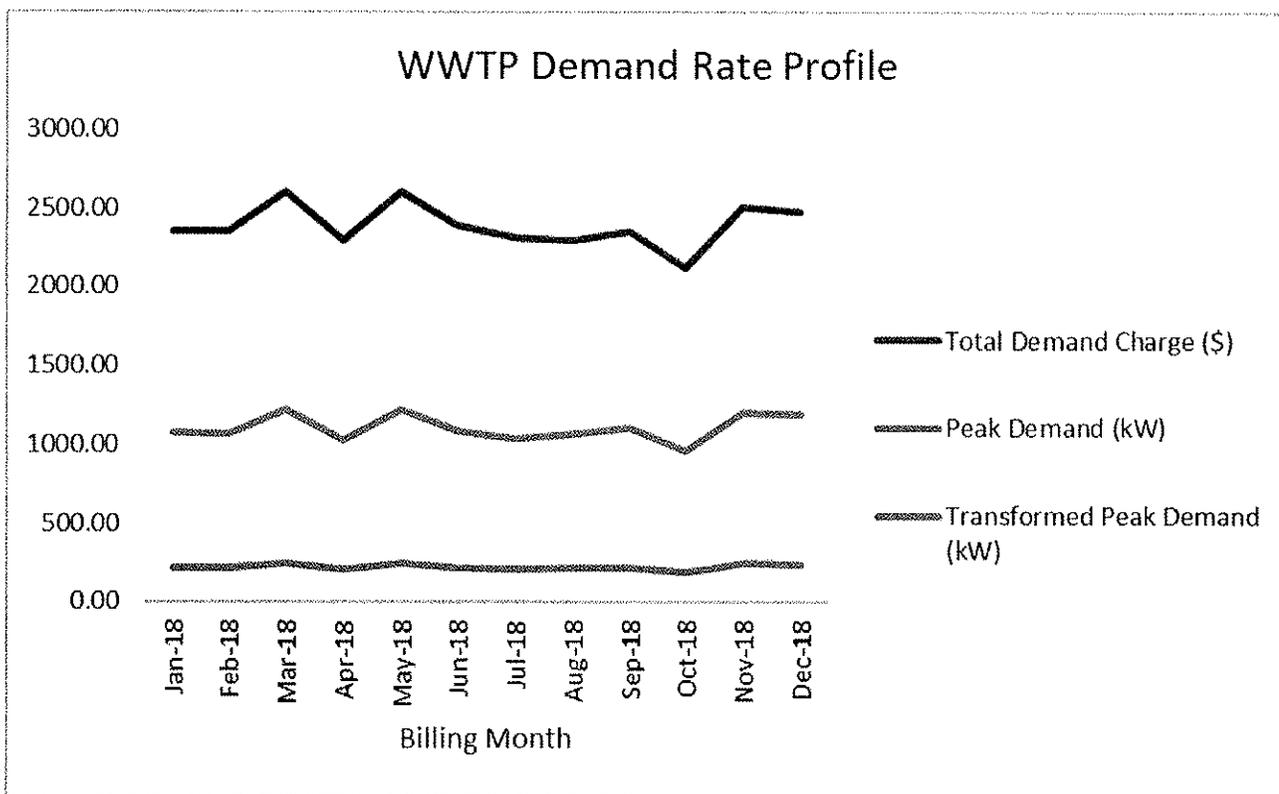
Lighting throughout the plant is achieved using a combination of fluorescent, incandescent, and LED lights.

Electricity is provided to the WWTP through Xcel Energy. Cost of electricity to the plant is \$0.0791/kWh and the total electrical cost is \$ 98,086/yr.

Demand charges play a significant role in electrical operating costs at the Sparta WWTP. While electrical consumption is measured in kilowatt hours (kWh), electrical demand is measured in kilowatts (kW). A good analogy to explain the difference between kilowatts and kilowatt hours is to picture the speedometer and odometer of a car. Demand (kW) is instantaneous and is analogous to the speedometer, but consumption (kWh) is measured over an hour and is analogous to the odometer reading of a car. Table 4 and Figure 4 show demand charges at the WWTP.

**Table 4: WWTP DEMAND RATE PROFILE**

Billing Period	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18
Total Electrical Cost	9,005.71	8,743.57	8,376.94	7,774.12	8,955.55	9,262.11	5,044.85	8,516.37	7,464.24	7,331.72	8,985.55	8,625.38
Peak Demand (kW)	215	213	245	205	245	217	208	214	221	192	241	238
Total Demand Charge	2347.99	2354.55	2605.75	2291.75	2605.75	2385.95	2315.30	2292.40	2347.35	2119.70	2504.35	2480.80
% of Bill is Demand	26.07%	26.93%	31.11%	29.48%	29.10%	25.76%	45.89%	26.92%	31.45%	28.91%	27.87%	28.76%



**Figure 4: WWTP DEMAND RATE PROFILE. Peak demand was multiplied by 5 times to obtain transformed peak demand.**

Table 4 and Figure 4 focus on demand charges incurred by the City of Sparta WWTP. Peak demand energy usage fluctuated between 192 kW and 245 kW for the time period analyzed by this study. The transformed peak demand presented in Figure 4 shows a better graphical representation than peak demand alone. If peak demand can be maintained at 192 kW then it would be possible for the City of Sparta to significantly reduce demand charges.

This study also quantified natural gas charges. Natural gas is provided to the plant by WE Energies. In addition to the HVAC system, natural gas is used to operate the heat exchanger for the anaerobic digester. Building temperatures are maintained as low as possible to prevent freezing and to enable plant staff to still be able to work efficiently. Annual cost of natural gas to the plant was \$0.6169/CCF and the total natural gas cost was \$12,208/yr.

**Energy Efficiency Recommendations:**

One major recommendation and opportunities for savings were explored for the aeration blower portion of the wastewater treatment process: install one 75hp high efficiency motor (95% nominal efficiency) and 1 variable frequency drive (VFD) onto Aeration Blower 4. Table 5 gives a breakdown of energy saving recommendations.

**Table 5: ENERGY SAVING RECOMMENDATIONS**

Recommendations	Investment	Estimated Cost Savings	Simple Payback
Install high efficiency 75hp motor on aeration blower 4	\$5,193 plus installation cost	\$3,202/ year	20 months
Install VFD on aeration blower 4	\$4,000 plus installation cost	\$11,042/ year	5 months
Maintain demand at 192 kW or less by operating select equipment (e.g. take blowers 1, 2, and 3 off line when GBT is in operation)	\$0	\$3,215/ year	Immediate
Column Totals	\$9,193 plus installation costs	\$ 17,459/ year	6-7 months

All figures within Table 5 are intended as estimated guidelines only and as such do not represent exact savings. Calculations were based on VFD settings at 80%.

**Low Cost/No Cost Recommendations**

Following is a standard list of Low Cost/No Cost Recommendations for wastewater treatment:

- Meet with Xcel Energy to evaluate your current rate schedule and identify the most efficient rate for your facility. Current rate schedule for City of Sparta WWTP is **PEAK CONTROLLED TIME-OF-DAY GENERAL SERVICE**
- Demand Management – Contact Xcel Energy to review your energy rate schedule
  - Review your operations during on-peak hours to identify idle operation of non-essential equipment.
  - Determine if a portion of your treatment process(es) can be adjusted to operate during off-peak hours.

Examples include:

- Operate thickening or dewatering equipment during off-peak hours.
- Shift recycling of supernatant to off-peak hours.
- Load digesters during off-peak hours.
- Operate mixers or aerators in aerobic digesters during offpeak hours.
- Accept or treat hauled-in wastes during off-peak hours. Utilize storage, if applicable.

- Shift filter backwash cycles to off-peak hours.
- Bump diffusers to off-peak hours or not at all, if practical.
- Test repaired equipment during off-peak hours.
- Change lead-lag equipment operation during off-peak hours.
- Do not mix solids holding tanks during on-peak hours.
- Maintain pumps and blowers; inspect, lubricate, and replace seals and bearings; check belt tension and alignment and adjust for optimal operation per manufacturers recommendations.
- Operate select aeration tanks as needed.
- Change intake filters for aeration blowers regularly to provide minimum resistance for intake air.
- Identify, assess and repair aeration system air main leaks.
- Identify equipment speeds and re-sheave blowers to gain efficiencies.
- Turn off unnecessary lighting and install occupancy sensors.
- Idle aeration basins or zones seasonally, if not needed.
- Adjust system operations when there is a change in wastewater load.
- Raise wet well levels to reduce static head in the pump system.
- Shift nightly low flow periods or seasonal low flow periods to smaller HP pumps / blowers, if applicable.
- Operate minimum number of UV lamps as possible while still meeting disinfection needs if applicable.
- Regularly clean UV lamp sleeves to improve transfer efficiency.
- Test and calibrate / replace DO sensors if needed.
- Identify the best location to install DO probes in the aeration tanks.
- Install programmable thermostats and utilize night set back / set up settings.
- Assess the potential for organics removal prior to entering the secondary treatment system. Assess the capability for high organic dischargers to feed loadings directly to a digester.
- Review your operations to identify if any pumps or blowers are being throttled. If throttled pumps and blowers are identified, review to determine if they can be unthrottled to operate more efficiently.
- Idle any unnecessary equipment.

### **Capital Improvement Recommendations**

Capital Improvement 1: Install one 75hp high efficiency motor (95% nominal efficiency) and one variable frequency drive (VFD) onto aeration blower 4.

Existing State: Blower 4 motor is on non-controlled drive so it is running at full power 100% of the time.

Proposed State: It is possible to lower the energy on the motors to achieve required aeration to the aeration basins. The VFD controlled motors can be adjusted to sustain desired aeration levels in the aeration basins. This will result in energy savings.

Savings and Investment: A new 75 hp high efficiency motor and VFD costs approximately \$9,193 plus installation.

Savings depends on efficiency realized. A VFD running at 80% would achieve a reduction of 139,000 kWh per year and would save approximately \$11,042 per year and have a simple payback of 6-7 months. Note: Lower power levels will achieve greater savings and faster payback.

Measurement & Verification: Note usage of kWhs reduced on energy bills.

### **Sources of Funding:**

Sparta is currently eligible for USDA RUS/RD loan/grant funds. It is suggested that any energy efficiency improvements be funded in with the loan/grant that comes from either of these sources when an upgrade is done. In addition, the Wisconsin Focus on Energy program can, and has in the past, awarded grants for energy efficient equipment upgrades, especially VFD installation.

City of Sparta 2018 Paper Mill Dam Repair (#5767874)

Owner: City of Sparta

Solicitor: MSA Professional Services - Madison

06/04/2019 02:00 PM CDT

MSA PN:00051042

Section Title	Line Item	Item Description	UofM	Quantity
<b>MAIN DAM</b>				
	Required - Gates			
	8	Mobilization	LS	1
	18	Solar Power Split Leaf Gate and Actuator	Ea.	5
	21	Cofferdam	LS	1
	22	Dewatering	LS	1
<b>POWERHOUSE</b>				
	Required - Concrete Repair			
	40	Powerhouse Mobilization	LS	1
	43	Cofferdam	LS	1
	44	Dewatering	LS	1
	46	XYPEX Concentrate Surface Treatment	SY	48
	47	Preparation Repair	SF	45
	48	Concrete Surface Repair	SF	45
	49	Crack Repair	LF	48
	50	Full Depth Preparation Repair	SF	63
	51	Full Depth Repair	SF	63
	52	Concrete Masonry	CY	4
	53	Bar Steel Reinforcement HS Coated	LB	400
	54	Embedded Galvanic Anodes	EA	42
	55	Masonry Anchors Type L, 1/2-inch Epoxy Bar, Adhesive	EA	42
<b>MAIN DAM</b>				
	Recommended - Concrete Repair			
	1	XYPEX Concentrate Surface Treatment	SY	197
	2	Masonry Anchors Type L, 1/4-inch SS	EA	101
	3	Preparation Repair	SF	142
	4	Concrete Surface Repair less than 3-inches	SF	48
	5	Concrete Surface Repair 3-inches to 6-inches	SF	48
	6	Concrete Surface Repair over 6-inches	SF	46
	7	Crack Repair	LF	22
	Optional - Access Bridge			
	10	Remove Existing Walkway	LS	1
	11	Chain Link Railing	LF	78
	12	Concrete Masonry	CY	1.5
	13	Masonry Anchors Type L, 1/2-inch SS, Adhesive	EA	6

	14	Masonry Anchors, 1/2-inch SS Threaded Rod, Adhesive	EA	24
	15	Bar Steel Reinforcement HS Coated	LB	165
	16	Galvanized Structural Steel	LS	1
	17	Galvanized Structural Grating	LS	1
	36	Chain Link Fence, 8-foot Gate	EA	1
	Optional - Auxiliary Spillway			
	24	Silt Fence	LS	1
	25	Erosion and Sedimentation Control	LS	1
	26	Clearing and Grubbing	LS	1
	27	Strip and salvage topsoil	LS	1
	28	Excavation, Grading & Finishing	LS	1
	29	Turf Reinforcement Mat Class III Type D	SY	580
	30	Geotextile Filter Fabric Type 'C' & Strata Microgrid	SY	220
	31	40-T Armorflex & drainage layer	SF	2184
	32	Salvage Topsoil	LS	1
	33	Seed, fertilizer & Mulch	LS	1
	Optional - New Fence			
	35	Chain Link Fence, 8-foot	LF	241
	37	Chain Link Fence, 4-foot Gate	EA	3
	Dam Optional Items			
	19	Water Level Control Sensor & System & Automatic Gate Control	LS	1
	20	LED Lake Elevation Readout Sign	LS	1
	23	Debris Removal	LS	1
	34	Staff Gage	LS	1
	POWERHOUSE			
	Optional Items			
	38	Powerhouse Architectural	LS	1
	39	Paint Existing Railing	LS	1
	41	Saw Cut & Remove Concrete Slab & Beam	LS	1
	42	Solar Power Raceway Split Leaf Gate, Actuator and Controller	EA	2
	45	Raceway Debris Removal	LS	1



\$75.00	\$1,800.00	\$15.00	\$360.00
\$12.00	\$1,980.00	\$35.00	\$5,775.00
\$11,000.00	\$11,000.00	\$54,000.00	\$54,000.00
\$17,500.00	\$17,500.00	\$12,000.00	\$12,000.00
\$1,500.00	<u>\$1,500.00</u>	\$1,930.00	\$1,930.00
<b>\$74,290.00</b>		<b>\$101,451.00</b>	

\$475.00	\$475.00	\$12,000.00	\$12,000.00
\$4,000.00	\$4,000.00	\$5,000.00	\$5,000.00
\$4,700.00	\$4,700.00	\$2,500.00	\$2,500.00
\$1,500.00	\$1,500.00	\$13,000.00	\$13,000.00
\$3,500.00	\$3,500.00	\$25,000.00	\$25,000.00
\$16.00	\$9,280.00	\$25.00	\$14,500.00
\$13.50	\$2,970.00	\$25.00	\$5,500.00
\$39.25	\$85,722.00	\$50.00	\$109,200.00
\$3,500.00	\$3,500.00	\$6,500.00	\$6,500.00
\$2,000.00	<u>\$2,000.00</u>	\$13,000.00	\$13,000.00
<b>\$117,647.00</b>		<b>\$206,200.00</b>	

\$45.00	\$10,845.00	\$60.00	\$14,460.00
\$1,200.00	<u>\$3,600.00</u>	\$500.00	\$1,500.00
<b>\$14,445.00</b>		<b>\$15,960.00</b>	

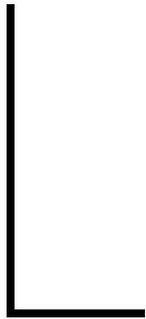
Recommend that the city just patch existing fence  
Recommend that the city just patch existing fence

\$32,800.00	\$32,800.00	\$750.00	\$750.00
\$5,500.00	\$5,500.00	\$600.00	\$600.00
\$9,000.00	\$9,000.00	\$20,000.00	\$20,000.00
\$1,650.00	<u>\$1,650.00</u>	\$1,100.00	\$1,100.00
<b>\$48,950.00</b>		<b>\$21,350.00</b>	

Recommend that the city do themselves

\$35,400.00	\$35,400.00	\$32,000.00	\$32,000.00
\$1,500.00	\$1,500.00	\$13,000.00	\$13,000.00
\$4,600.00	\$4,600.00	\$34,000.00	\$34,000.00
\$52,000.00	\$104,000.00	\$70,000.00	\$140,000.00
\$13,400.00	<u>\$13,400.00</u>	\$13,092.00	\$13,092.00
<b>\$158,900.00</b>		<b>\$232,092.00</b>	

Recommend that the city do themselves



percentage Estimate

\$35,250.00
\$213,200.00
\$66,950.00
\$9,600.00
<b>\$325,000.00</b>

\$17,250.00
\$39,500.00
\$7,900.00
\$0.00
\$4,050.00
\$12,757.50
\$10,800.00
\$4,536.00
\$17,010.00
\$37,800.00
\$4,320.00
\$2,948.40
\$2,835.00
<b>\$161,706.90</b>

\$486,706.90  
 \$221,676.73 Grant  
**\$265,030.18** City

\$0.00
\$6,817.50
\$10,224.00
\$13,176.00
\$13,608.00
\$13,041.00
\$5,346.00
<b>\$62,212.50</b>

\$62,212.50  
 \$15,553.13 Grant  
**\$46,659.38** City

\$77,000.00 Engineering to Date  
 \$80,000.00 Engineering to re-design and CRS

<b>\$157,000.00</b>
---------------------

\$157,000.00

Repairs @ 100% bid price

100%	\$70,500.00
100%	\$266,500.00
100%	\$133,900.00
100%	\$19,200.00
	<b>\$490,100.00</b>

100%	\$34,500.00
100%	\$79,000.00
100%	\$15,800.00
0%	\$0.00
100%	\$4,500.00
100%	\$14,175.00
100%	\$12,000.00
100%	\$5,040.00
100%	\$18,900.00
100%	\$42,000.00
100%	\$4,800.00
100%	\$3,276.00
100%	\$3,150.00
	<b>\$237,141.00</b>

0%	\$0.00
100%	\$7,575.00
100%	\$11,360.00
100%	\$14,640.00
100%	\$15,120.00
100%	\$14,490.00
100%	\$5,940.00
	<b>\$69,125.00</b>

\$77,000.00  
 \$80,000.00

<b>\$157,000.00</b>
---------------------

\$39,250.00 Grant  
\$117,750.00 City

Sum Grant \$276,479.85 Grant  
Sum City \$429,439.55 City  
Construction Sum \$548,919.40

Sum Grant  
Sum City

Construction Sum

\$727,241.00  
\$281,810.25 Grant  
\$445,430.75 City

\$69,125.00  
\$17,281.25 Grant  
\$51,843.75 City

Engineering to Date  
Engineering to re-design and CRS  
\$157,000.00

\$39,250.00 Grant

\$117,750.00 City

\$338,341.50 Grant

\$615,024.50 City

\$796,366.00

Sec. 7-62. - Stop signs.

Pursuant to Wis. Stats. § 349.07(8), stop signs shall be erected to control traffic at points on city streets described as follows:

(88) On Bicycle Street, so as to require traffic traveling south on Bicycle Street to stop prior to turning east or west onto Spartan Drive.

(89) On Spartan Drive, so as to require traffic traveling west on Spartan Drive to stop prior to turning north or south on S. Black River St. or straight into Theisen's Driveway.

[Back to Results](#)



## 2018 ALTEC AT37G JEMS

Altec New Equipment Sales

1 (800) 958-2555

\$136,000



- **Unit:** AT37G
- **Chassis Mfg:** Dodge
- **Location:** Elizabethtown, KY
- **Stock #:** 5764564657

### Request Information

\*Required

**Altec New Equipment Sales**

1 (800) 958-2555

**Name \***

First

Last

**Company \***

**Email \***

**Phone \***

**City \***

**State/Province/Territory \***

Select One



**Which selection best describes your industry: \***

Select One



**Which selection best describes your role: \***

### About this AT37G

#### Description

Are you looking to purchase a brand new bucket truck in the 42 ft working height range? This Altec AT37G is a great insulating option that provides a telescopic articulating boom for the electric utility and telecom industries. This particular aerial device has been equipped with Altec's JEMS (Job Energy Management System) allowing you to shut the engine off and continue operating the bucket off the JEMS system. If you are concerned about fuel savings this truck would be a great option for you. Take advantage of this unit's availability while you can! Call 1 (800) 985-2555 for additional information.

#### Unit Specifications

<b>Unit Model:</b>	AT37G
<b>Unit Mount:</b>	Behind the Cab Mount
<b>Working Height:</b>	42.8 ft
<b>Platform:</b>	Yes
<b>Platform Configuration:</b>	Single, One-Man
<b>Platform Dimensions:</b>	24 x 30 x 42 in
<b>Platform Capacity:</b>	400 lb
<b>Unit Controls:</b>	Single Handle ISO-Grip(R)
<b>Primary Stabilizer:</b>	N/A



# SST-37/40

Articulated/Telescopic Aerial Lift



## DEMAND BETTER

Unitrol Bucket Controls  
available for full  
hydraulic machines



Hydraulic  
Platform  
Rotation

Hydraulic Tool  
Outlets Available

Patented Electroguard  
provides 42" insulation  
gap in fully retracted  
position insulated  
units only



- Working Height: Up to 45'
- Horizontal Reach: Up to 27' 9"
- Platform Capacity: Up to 440 lbs.



For more information about the SST-37/40 or any of the other outstanding VERSALIFT machines, contact your authorized VERSALIFT Distributor or call 1.800.825.1085.

\*See chassis Spec Sheet for Details

## PRICE SUMMARY

AERIAL, BODY, ACCERSSORIES AND INSTALLATION:	\$ 79,383.00
CHASSIS – 2019 FORD F-550 4x2 REGULAR CAB: (See <i>NOTES</i> Section #7 for Net 10 Days payment <u>\$400.00</u> chassis discount)	\$ 37,241.00
NET PRICE, F.O.B. SPARTA, WI:	<u>\$ 116,654.00</u>

## OPTIONS

#1 **WORK LIGHT** – Two (2) Model (SYTLED1400R-FL) work light shall be provided and installed One (1) on the pedestal, and One (1) mounted off curbside front of body. The lights shall be activated by a lighted rocker switch on the chassis dash.

**ADD TO NET PRICE: \$341.00**

# 2 **LED WARNING LIGHT** – One (1) Federal Signal (454101HL-02) LED highlighter mini light bar shall be provided and mounted to the cab roof. The light shall be manually activated by an illuminated rocker switch, provided and mounted on the chassis dash.

**ADD TO NET PRICE: \$483.00**

# 3 **PTO HOUR METER** – A PTO Hour meter shall be provided and installed.

**ADD TO NET PRICE: \$309.00**

# 4 **ELECTROGUARD**- A 7.5” x 9.5” fiberglass section (**ElectroGuard**) that maintains a 42” insulation gap with the inner boom fully retracted.

**This option must be taken initially when ordering the VERSALIFT Aerial**

**ADD TO NET PRICE: \$1024.00**

# 5 **LED FLEXGL COMPARTMENT LIGHTING**: BrandFX Shall provide and Install LED rope lighting in all compartments

**This option must be taken initially when ordering the BrandFX Body**

**ADD TO NET PRICE: \$450.00**



# Altec AT35-G/AT37-G Telescopic/Articulating Aerial Devices



- Altec ISO-Grip<sup>®</sup> Control System
- Up to 42.5 ft (13.0 m) Working Height
- Up to 28.3 ft (8.6 m) Side Reach
- Platform Capacity to 400 lb (181 kg)
- Easily Mounted on 17,500 lb (7937.9 kg) GVWR Chassis – No Outriggers Required

<u>Item</u>	<u>Description</u>	<u>Qty</u>	<u>Price</u>
113.	Park Brake In Rear Wheels	1	
114.	Ford E/F250-550 Single Horizontal Right Side Exhaust	1	
115.	63C - Aft Axle Frame Extension	1	
116.	872 - Rear View Camera and Prep Kit	1	
117.	No Idle Engine Shut-Down Required	1	
118.	50-State Emissions	1	
119.	Ford 40 Gallon Fuel Tank (Rear)	1	
120.	AM/FM Radio	1	
121.	Bluetooth	1	
122.	Air Conditioning	1	
123.	Backup Camera, OEM Supplied	1	
124.	Cruise Control	1	
125.	Keyless Entry	1	
126.	Power Door Locks	1	
127.	Power Windows	1	
128.	Running Boards (Supplied By Chassis OEM)	1	
129.	Snow Plow Package	1	
130.	Towing Package	1	
131.	Trailer Brake Controller (Factory Installed)	1	
132.	Cloth Split Bench Seat	1	

**Additional Pricing**

133.	Standard Altec Warranty: One (1) year parts warranty, one (1) year labor warranty, ninety (90) days warranty for travel charges, limited lifetime structural warranty	1	
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<b>Unit / Body / Chassis Total</b>	<b>102,588.00</b>
<b>FET Total</b>	<b>0.00</b>
<b>Total</b>	<b>102,588.00</b>

Altec Industries, Inc.

We Wish To Thank You For Giving Us The Pleasure  
And Opportunity of Serving You

UTILITY EQUIPMENT AND BODIES SINCE 1929



# Professional Services Agreement

This AGREEMENT (Agreement) is made today \_\_\_\_\_, 2019 by and between CITY OF SPARTA (OWNER) and MSA PROFESSIONAL SERVICES, INC. (MSA), which agree as follows:

**Project Name:** Icecap Road Storm Sewer Addition

**The scope of the work authorized is:** see Attachment B:

**The schedule to perform the work is:** Approximate Start Date: December 2019  
Approximate Completion Date: August 2020

**The estimated fee for the work is:** \$28,500

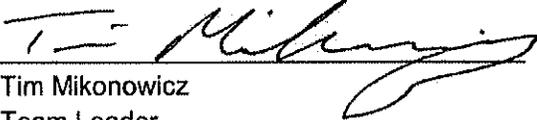
All services shall be performed in accordance with the General Terms and Conditions of MSA, which is attached and made part of this Agreement. Any attachments or exhibits referenced in this Agreement are made part of this Agreement. Payment for these services will be on a time and expense basis.

**Approval:** Authorization to proceed is acknowledged by signatures of the parties to this Agreement.

### CITY OF SPARTA

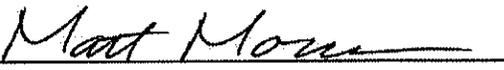
### MSA PROFESSIONAL SERVICES, INC.

\_\_\_\_\_  
Todd Fahning  
City Administrator  
Date: \_\_\_\_\_

  
\_\_\_\_\_  
Tim Mikonowicz  
Team Leader  
Date: 11-08-2019

Attest:

\_\_\_\_\_  
Julie Hanson, City Clerk  
Date: \_\_\_\_\_

  
\_\_\_\_\_  
Matt Morrow  
Project Engineer  
Date: 11/8/2019

201 W. Oak Street  
Sparta, WI 54656  
Phone: (608) 269-4340 Ext 232  
Fax: (608) 269-5046

1230 South Blvd  
Baraboo, WI 53913  
Phone: (608) 355-8889  
Fax: (608) 356-2770

**ATTACHMENT A:  
RATE SCHEDULE**

<u>CLASSIFICATION</u>	<u>LABOR RATE</u>
Architects .....	\$111 – \$170/hr.
Clerical .....	\$ 55 – \$110/hr.
CAD Technician .....	\$ 65 – \$125/hr.
Geographic Information Systems (GIS).....	\$ 94 – \$138/hr.
Housing Administration .....	\$ 68 – \$115/hr.
Hydrogeologists .....	\$114 – \$147/hr.
Planners .....	\$ 89 – \$160/hr.
Principals.....	\$180 – \$250/hr.
Professional Engineers .....	\$ 85 – \$153/hr.
Project Manager.....	\$ 85 – \$180/hr.
Professional Land Surveyors .....	\$ 79 – \$160/hr.
Staff Engineers.....	\$ 74 – \$144/hr.
Technicians .....	\$ 65 – \$125/hr.
Wastewater Treatment Plant Operator.....	\$ 72 – \$ 92/hr.

**REIMBURSABLE EXPENSES**

Copies/Prints.....	Rate based on volume
Fax .....	\$1.00/page
GPS Equipment .....	\$40/hour
Mailing/UPS .....	At cost
Mileage – Automobile (currently \$0.545/mile) .....	Rate set by Fed. Gov.
Mileage – MSA Truck.....	\$0.70/mile
Nuclear Density Testing .....	\$25.00/day + \$10/test
Organic Vapor Field Meter .....	\$100/day
PC/CADD Machine.....	Included in labor rates
Stakes/Lath/Rods .....	At cost
Total Station .....	Included in labor rates
Travel Expenses, Lodging, & Meals .....	At cost
Traffic Counting Equipment & Data Processing .....	At cost
Trimble Geodimeter.....	\$30/hour

- Labor rates represent an average or range for a particular job classification. These rates are in effect until January 1, 2020.

## Project Description

The project consists of installing a 30-inch storm sewer main and associated structures and area drains from the existing low area east of the home at 2890 Icecap Road north to the existing drainage easement adjacent to I-90, then west in this easement to the low area north of the home at 2970 Icecap Road where the storm water will discharge to a shallow ditch, flow to an existing storm sewer main under I 90 and follow the existing drainage way north and west. The existing drainage swale in this area will remain in-place to allow drainage in large storm events.

## General Scope

MSA will provide services as set forth below.

### **1. Field Work**

- **Project Site Information**

- Right-of-Way Research: Utilize existing property irons in project area to determine approximate right-of-way location.
- Contact Utility Diggers Hotline: Utilize marking and mapping provided by Diggers Hotline to assess locations of existing private utilities in the area.
- Topographic Survey: Collect location and elevation data of existing features at the site for use as basis of design.

### **2. Design**

- **Project Administration**

- Manage and coordinate project team, budget and schedules. Maintain communication with Owner and stakeholders on project.

- **Quality Assurance/Quality Control**

- Employ documented quality-assurance/quality-control procedures throughout project.

- **Project Site Information**

- Wetland Investigation: Desktop evaluation to assess site for presence of wetlands utilizing publicly available wetland and soils maps. (Wetland delineation and permitting not included).

- **Design – Storm Sewer**

- Design: Develop horizontal and vertical alignments for storm sewer main. Prepare construction details.
- Erosion Control Design: Determine location and type of erosion control devices needed to meet regulatory requirements.
- Construction Cost Estimate: Develop a preliminary construction cost estimate based on preliminary plans and update the estimate upon completion of final plans.

- **Plan Preparation and Drafting**

- Preliminary Plan Preparation: Prepare preliminary plans showing topographic survey information, horizontal and vertical alignments of storm sewer main and typical construction details.
- Final Plan Preparation: Prepare final plans based on preliminary plans, Owner feedback, and additional design development. Final plans will include:
  - Title Sheet
  - Erosion Control Plan
  - Details
  - Plan and Profile Sheets

- **Specifications**

- Specifications: Prepare technical specifications, special procedures, bidding documents and construction contracting documents.

- **Utility Coordination**

- Coordination and Communication

- Inform private utility companies (gas, electric, and communications) of the project scope and timeline.
- Note utility locations (as provided by utility companies and/or Diggers Hotline locate) on the project plans.
- Provide utility companies with preliminary and final plans for the project.
- Coordinate utility service to project: Plans will be emailed to utilities. At that time, private utilities can coordinate with MSA and the City to design utilities in the project area.
- **Permits**: Prepare permit application and required attachments for:
  - Wisconsin DNR – Notice of Intent (NOI) permit to disturb greater than one acre of land during construction.
  - Permit fee of \$140 is included as part of this proposal.
- **Design Meetings**
  - Preliminary Plan review: A preliminary set of plans will be sent to the City for department review. One public information meeting is planned.
  - Final Plan review: Attend one meeting with staff to review the project plans.
  - Unless otherwise noted, all meetings will take place at City Hall.

### 3. Bidding

- Assist Owner in Advertising and Soliciting for Bids.
- Administer Bid Document Distribution Process utilizing QuestCDN
- Issue Addenda as appropriate to clarify, correct, or change the bidding documents.
- Conduct an Electronic Bid Opening located at MSA's Baraboo Office.
- Prepare Tabulation of Bids.
- Assist Owner in evaluating bids and in assembling and awarding construction contracts.

### 4. Construction Services

- Construction Administration
  - Attend and conduct one pre-construction meeting during a site observation visit, and prepare minutes from that meeting and distribute to attendees.
  - Review shop drawings and construction materials submitted by the contractor.
  - Review and recommend contractor's pay requests (3 assumed).
  - Review change order requests and make recommendation to Owner (1 assumed).
  - Attend one "walk-through" inspection with Owner's representative(s).
  - Prepare "punch list" of items required for final completion of project.
  - Issue and administer project closeout documents.
  - Review contractor's notes and 'as-built' records and prepare reproducible record drawings. One hard copy of record drawings along with a .pdf/electronic copy will be provided to the Owner.
  - Coordinate and attend an 11-month project review prior to expiration of one-year warranty period.
  - Update City GIS storm sewer map.
  - Project administration and correspondence.
  - Reimbursables: Reproduction, Postage, Fax, UPS, and Mileage.
- Construction Observation and Staking (*assumes 2 weeks of construction*)
  - Provide construction staking for:
    - Storm sewer, and appurtenances along (10 crew hours estimated, 1 Trip).
    - Conduct post-construction GIS utility survey (3 hours estimated, 1 Trip).
  - Construction observation and documentation of major project components and critical operations consisting of:

- An estimated 4 hours of construction observation and documentation by a Professional Engineer.
- An estimated 64 hours of construction observation and documentation by an Engineering or Engineering Technician.
- Reimbursables: Reproduction, Postage, Fax, UPS, GPS, Mileage.

**DELIVERABLES**

MSA will provide the following deliverables:

1. Preliminary plans: one (1) paper copy, one PDF file of the preliminary plans for Owner review.
2. Final plans: one (1) paper copy and one PDF file of the final plans and construction cost estimate.
3. Permit Applications: One PDF file (per application) containing permit application with attachments, and one paper copy for submittal to permitting authority.
4. Bidding Documents: One (1) paper copy, one PDF file of the bidding documents, including project manual, plan sets and any addenda.

**ASSUMPTIONS**

The following are assumptions made by MSA in preparation of this scope of services:

1. There are no wetlands in or around the project area.
2. There are no flood plains in or around the project area.

**ADDITIONAL SERVICES**

Services that are not included in the above Scope of Services can be provided under separate contract or by amending the scope and fee listed in this Agreement. Examples of additional services that may be needed or desired for completion of the project include:

1. Assistance with acquisition of real estate and/or temporary or permanent easements.
2. Wetland investigation, delineation, and permitting.
3. Geotechnical investigation of subsurface conditions.
4. Funding applications and administration.
5. Additional meetings not specifically listed in the scope.
6. Accommodations for environmental hazards, endangered species, or historical or cultural issues at or near the project site.
7. Permit assistance related to surface waters (chapter 30 permits).

**PROJECT SCHEDULE**

MSA anticipates the following estimated project schedule:

Date	Milestone
December 2019	Owner approves Professional Services Agreement
January 2020	MSA begins work
February 2020	Preliminary Plans complete
March 2020	Final Plans complete, Permit application submitted, Bidding process & Owner awards construction contract
May 2020 to July 2020	Construction
August 2020	Project Closeout

**MSA PROFESSIONAL SERVICES, INC. (MSA)  
GENERAL TERMS AND CONDITIONS OF SERVICES (PUBLIC)**

1. **Scope and Fee.** The quoted fees and scope of services constitute the best estimate of the fees and tasks required to perform the services as defined. This agreement upon execution by both parties hereto, can be amended only by written instrument signed by both parties. For those projects involving conceptual or process development service, activities often cannot be fully defined during initial planning. As the project progresses, facts uncovered may reveal a change in direction which may alter the scope. MSA will promptly inform the OWNER in writing of such situations so that changes in this agreement can be made as required. The OWNER agrees to clarify and define project requirements and to provide such legal, accounting and insurance counseling services as may be required for the project.

2. **Billing.** MSA will bill the OWNER monthly with net payment due upon receipt. Past due balances shall be subject to an interest charge at a rate of 12% per year from said thirtieth day. In addition, MSA may, after giving seven days written notice, suspend service under any agreement until the OWNER has paid in full all amounts due for services rendered and expenses incurred, including the interest charge on past due invoices.

3. **Costs and Schedules.** Costs and schedule commitments shall be subject to change for delays caused by the OWNER's failure to provide specified facilities or information or for delays caused by unpredictable occurrences including, without limitation, fires, floods, riots, strikes, unavailability of labor or materials, delays or defaults, by suppliers of materials or services, process shutdowns, acts of God or the public enemy, or acts of regulations of any governmental agency. Temporary delays of services caused by any of the above which result in additional costs beyond those outlined may require renegotiation of this agreement.

4. **Access to Site.** Owner shall furnish right-of-entry on the project site for MSA and, if the site is not owned by Owner, warrants that permission has been granted to make planned explorations pursuant to the scope of services. MSA will take reasonable precautions to minimize damage to the site from use of equipment, but has not included costs for restoration of damage that may result and shall not be responsible for such costs.

5. **Location of Utilities.** Consultant shall use reasonable means to identify the location of buried utilities in the areas of subsurface exploration and shall take reasonable precautions to avoid any damage to the utilities noted. However, Owner agrees to indemnify and defend Consultant in the event of damage or injury arising from damage to or interference with subsurface structures or utilities which result from inaccuracies in information of instructions which have been furnished to Consultant by others.

6. **Professional Representative.** MSA intends to serve as the OWNER's professional representative for those services as defined in this agreement, and to provide advice and consultation to the OWNER as a professional. Any opinions of probable project costs, reviews and observations, and other decisions made by MSA for the OWNER are rendered on the basis of experience and qualifications and represents the professional judgment of MSA. However, MSA cannot and does not guarantee that proposals, bid or actual project or construction costs will not vary from the opinion of probable cost prepared by it.

7. **Construction.** This agreement shall not be construed as giving MSA, the responsibility or authority to direct or supervise construction means, methods, techniques, sequence, or procedures of construction selected by the contractors or subcontractors or the safety precautions and programs incident to the work of the contractors or subcontractors.

8. **Standard of Care.** In conducting the services, MSA will apply present professional, engineering and/or scientific judgment, and use a level of effort consistent with current professional standards in the same or similar locality under similar circumstances in performing the Services. The OWNER acknowledges that "current professional standards" shall mean the standard for professional services, measured as of the time those services are rendered, and not according to later standards, if such later standards purport to impose a higher degree of care upon MSA.

MSA does not make any warranty or guarantee, expressed or implied, nor have any agreement or contract for services subject to the provisions of any uniform commercial code. Similarly, MSA will not accept those terms and conditions offered by the OWNER in its purchase order, requisition, or notice of authorization to proceed, except as set forth herein or expressly agreed to in writing. Written acknowledgement of receipt, or the actual performance of services subsequent to receipt of such purchase order, requisition, or notice of authorization to proceed is specifically deemed not to constitute acceptance of any terms or conditions contrary to those set forth herein.

9. **Construction Site Visits.** MSA shall make visits to the site at intervals appropriate to the various stages of construction as MSA deems necessary in order to observe, as an experienced and qualified design professional, the progress and quality of the various aspects of Contractor's work.

The purpose of MSA's visits to, and representation at the site, will be to enable MSA to better carry out the duties and responsibilities assigned to and undertaken by MSA during the Construction Phase, and in addition, by the exercise of MSA's efforts as an experienced and qualified design professional, to provide for OWNER a greater degree of confidence that the completed work of Contractor will conform in general to the Contract Documents and that the integrity of the design concept of the completed Project as a functioning whole as indicated in the Contract Documents has been implemented and preserved by Contractor. On the other hand, MSA shall not, during such visits or as a result of such observations of Contractor's work in progress, supervise, direct or have control over Contractor's work nor shall MSA have authority over or responsibility for the means, methods, techniques, sequences or procedures of construction selected by Contractor, for safety precautions and programs incident to the work of Contractor or for any failure of Contractor to comply with laws, rules, regulations, ordinances, codes or orders applicable to Contractor's furnishing and performing the work. Accordingly, MSA neither guarantees the performance of any Contractor nor assumes responsibility for any Contractor's failure to furnish and perform its work in accordance with the Contract Documents.

10. **Termination.** This Agreement shall commence upon execution and shall remain in effect until terminated by either party, at such party's discretion, on not less than thirty (30) days' advance written notice. The effective date of the termination is the thirtieth day after the non-terminating party's receipt of the notice of termination. If MSA terminates the Agreement, the OWNER may, at its option, extend the terms of this Agreement to the extent necessary for MSA to complete any services that were ordered prior to the effective date of termination. If OWNER terminates this Agreement, OWNER shall pay MSA for all services performed prior to MSA's receipt of the notice of termination and for all work performed and/or expenses incurred by MSA in terminating Services begun after MSA's receipt of the termination notice. Termination hereunder shall operate to discharge only those obligations which are executory by either party on and after the effective date of termination. These General Terms and Conditions shall survive the completion of the services performed hereunder or the Termination of this Agreement for any cause.

This agreement cannot be changed or terminated orally. No waiver of compliance with any provision or condition hereof should be effective unless agreed in writing and duly executed by the parties hereto.

11. **Betterment.** If, due to MSA's error, any required or necessary item or component of the project is omitted from the construction documents, MSA's liability shall be limited to the reasonable costs of correction of the construction, less what OWNER'S cost of including the omitted item or component in the original construction would have been had the item or component not been omitted. It is intended by this provision that MSA will not be responsible for any cost or expense that provides betterment, upgrade, or enhancement of the project.

12. **Hazardous Substances.** OWNER acknowledges and agrees that MSA has had no role in generating, treating, storing, or disposing of hazardous substances or materials which may be present at the project site, and MSA has not benefited from the processes that produced such hazardous substances or materials. Any hazardous substances or materials encountered by or associated with Services provided by MSA on the project shall at no time be or become the property of MSA. MSA shall not be deemed to possess or control any hazardous substance or material at any time; arrangements for the treatment, storage, transport, or disposal of any hazardous substances or materials, which shall be made by MSA, are made solely and exclusively on OWNER's behalf for OWNER's benefit and at OWNER's direction. Nothing contained within this Agreement shall be construed or interpreted as requiring MSA to assume the status of a generator, storer, treater, or disposal facility as defined in any federal, state, or local statute, regulation, or rule governing treatment, storage, transport, and/or disposal of hazardous substances or materials.

All samples of hazardous substances, materials or contaminants are the property and responsibility of OWNER and shall be returned to OWNER at the end of a project for proper disposal. Alternate arrangements to ship such samples directly to a licensed disposal facility may be made at OWNER's request and expense and subject to this subparagraph.

13. **Insurance.** MSA will maintain insurance coverage for: Worker's Compensation, General Liability, and Professional Liability. MSA will provide information as to specific limits upon written request. If the OWNER requires coverages or limits in addition to those in effect as of the date of the agreement, premiums for additional insurance shall be paid by the OWNER. The liability of MSA to the OWNER for any indemnity commitments, or for any damages arising in any way out of performance of this contract is limited to such insurance coverages and amount which MSA has in effect.

14. **Reuse of Documents.** Reuse of any documents and/or services pertaining to this project by the OWNER or extensions of this project or on any other project shall be at the OWNER's sole risk. The OWNER agrees to defend, indemnify, and hold harmless MSA for all claims, damages, and expenses including attorneys' fees and costs arising out of such reuse of the documents and/or services by the OWNER or by others acting through the OWNER.

15. **Indemnification.** To the fullest extent permitted by law, MSA shall indemnify and hold harmless, OWNER, and OWNER's officers, directors, members, partners, agents, consultants, and employees (hereinafter "OWNER") from reasonable claims, costs, losses, and damages arising out of or relating to the PROJECT, provided that any such claim, cost, loss, or damage is attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of tangible property (other than the Work itself) including the loss of use resulting therefrom but only to the extent caused by any negligent act or omission of MSA or MSA's officers, directors, members, partners, agents, employees, or Consultants (hereinafter "MSA"). In no event shall this indemnity agreement apply to claims between the OWNER and MSA. This indemnity agreement applies solely to claims of third parties. Furthermore, in no event shall this indemnity agreement apply to claims that MSA is responsible for attorneys' fees. This agreement does not give rise to any duty on the part of MSA to defend the OWNER on any claim arising under this agreement.

To the fullest extent permitted by law, OWNER shall indemnify and hold harmless, MSA, and MSA's officers, directors, members, partners, agents, consultants, and employees (hereinafter "MSA") from reasonable claims, costs, losses, and damages arising out of or relating to the PROJECT, provided that any such claim, cost, loss, or damage is attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of tangible property (other than the Work itself) including the loss of use resulting therefrom but only to the extent caused by any negligent act or omission of the OWNER or the OWNER's officers, directors, members, partners, agents, employees, or Consultants (hereinafter "OWNER"). In no event shall this indemnity agreement apply to claims between MSA and the OWNER. This indemnity agreement applies solely to claims of third parties. Furthermore, in no event shall this indemnity agreement apply to claims that the OWNER is responsible for attorneys' fees. This agreement does not give rise to any duty on the part of the OWNER to defend MSA on any claim arising under this agreement.

To the fullest extent permitted by law, MSA's total liability to OWNER and anyone claiming by, through, or under OWNER for any cost, loss or damages caused in part or by the negligence of MSA and in part by the negligence of OWNER or any other negligent entity or individual, shall not exceed the percentage share that MSA's negligence bears to the total negligence of OWNER, MSA, and all other negligent entities and individuals.

16. **Dispute Resolution.** OWNER and MSA desire to resolve any disputes or areas of disagreement involving the subject matter of this Agreement by a mechanism that facilitates resolution of disputes by negotiation rather than by litigation. OWNER and MSA also acknowledge that issues and problems may arise after execution of this Agreement which were not anticipated or are not resolved by specific provisions in this Agreement. Accordingly, both OWNER and MSA will endeavor to settle all controversies, claims, counterclaims, disputes, and other matters in accordance with the Construction Industry Mediation Rules of the American Arbitration Association currently in effect, unless OWNER and MSA mutually agree otherwise. Demand for mediation shall be filed in writing with the other party to this Agreement. A demand for mediation shall be made within a reasonable time after the claim, dispute or other matter in question has arisen. In no event shall the demand for mediation be made after the date when institution of legal or equitable proceedings based on such claim, dispute or other matter in question would be barred by the applicable statute of limitations. Neither demand for mediation nor any term of this Dispute Resolution clause shall prevent the filing of a legal action where failing to do so may bar the action because of the applicable statute of limitations. If despite the good faith efforts of OWNER and MSA any controversy, claim, counterclaim, dispute, or other matter is not resolved through negotiation or mediation, OWNER and MSA agree and consent that such matter may be resolved through legal action in any state or federal court having jurisdiction.

17. **Exclusion of Special, Indirect, Consequential and Liquidated Damages.** Consultant shall not be liable, in contract or tort or otherwise, for any special, indirect, consequential, or liquidated damages including specifically, but without limitation, loss of profit or revenue, loss of capital, delay damages, loss of goodwill, claim of third parties, or similar damages arising out of or connected in any way to the project or this contract.

18. **State Law.** This agreement shall be construed and interpreted in accordance with the laws of the State of Wisconsin.

19. **Jurisdiction.** OWNER hereby irrevocably submits to the jurisdiction of the state courts of the State of Wisconsin for the purpose of any suit, action or other proceeding arising out of or based upon this Agreement. OWNER further consents that the venue for any legal proceedings related to this Agreement shall be, at MSA's option, Sauk County, Wisconsin, or any county in which MSA has an office.

20. **Understanding.** This agreement contains the entire understanding between the parties on the subject matter hereof and no representations, inducements, promises or agreements not embodied herein (unless agreed in writing duly executed) shall be of any force or effect, and this agreement supersedes any other prior understanding entered into between the parties on the subject matter hereto.