

**CITY OF SPARTA  
PUBLIC WORKS AGENDA  
December 11, 2019**

**CITY HALL**

**6:00 P.M.**

- 1. Call Meeting to Order**
- 2. Consideration of Consent Agenda consisting of: minutes from the November 13, 2019 Meeting, Director of Public Works Report for December; Water Utility Operation and Maintenance Report for November; Wastewater Treatment Facility Operation and Maintenance Report for November-December and monthly bills for the Sanitation Dept., Street Dept., and Water Utility.**
- 3. Consideration of Amendment to Engineering Contract for Dam Repair with MSA**
- 4. Consideration of Winter Maintenance of Sidewalk Along Angelo Road**
- 5. Items for Future Consideration**
- 6. 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: 12-9-19

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

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

**ABSENT:** None

**ALSO PRESENT:** Mark Van Wormer, Todd Fahning, Mark Sund, Matthew Hoffland, Dave Kuderer, Todd Hanson, Dennis Johnson, Kristen Gust, Bruce Humphrey, Dale Passehl, Kim & Todd Bowen, Pat Mulvaney

Norm Stanek called the meeting to order at 6:00.

**A motion was made by Kevin Riley and seconded by Kevin Brueggeman to approve the consent agenda consisting of the minutes of 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. Motion carried 7-0.**

US Cellular has submitted an amendment to their lease agreement with the City of Sparta. The last amendment was done in 2017. They did a structural analysis and are doing some modifications. That is all spelled out in their amendment of their lease agreement. **A motion was made by Kevin Riley and seconded by Kevin Brueggeman to accept the amendment of the lease by US Cellular for their tower. Motion carried 7-0.** It was also mentioned that the Board wanted to increase their lease by 2% a year for the past 2 years, but that was not an item that was part of this amendment.

Dale Passehl, the Sanitation Superintendent, went over the Sanitation Department budget for 2020. He made mention that this department needs more automation and updating of digesters and camera system. They are still having problems with tree roots growing in the mains and are hoping to come up with something to keep this under control. **A motion was made by Jim Church and seconded by Kevin Brueggeman to approve the 2020 Sanitation Budget as presented. Motion carried 7-0.**

MSA was asked to put together an estimate of what it might cost the City to take care of just what the DNR is requesting of us to repair on the dam. The required items were to fix the gates and to do concrete work. Our cost range for the repairs would be \$430,000.00 to \$620,000.00. We would have one drawdown, probably in March or April, in order to get estimates. The completion should be by the end of next year. The Board indicated they wanted to go ahead and get the bids.

We currently have stop signs installed on Bicycle Street and Spartan Dr., but did not go through the process of having them included in our ordinances. **A motion was made by Jim Church and seconded by Kevin Riley to approve the stop signs on Bicycle Street and Spartan Drive. Motion carried 7-0.**

Three bids were received for the purchasing of a boom truck. We currently have a 1991 boom truck and will put this on Wisconsin Surplus to sell. The lowest bid was \$102,588.00 from Altec. Half of the cost will come out of this year's budget and half will come out of next years budget. **A motion was made by Larry Tichenor and seconded by Kevin Riley to approve the bid from Altec in the amount of \$102,588.00 to purchase a new boom truck. Motion carried 7-0.**

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We received an estimate from MSA of \$28,500.00 to do the designing and field work for the Icecap Rd. Storm Sewer project. A storm sewer main will be installed with area drains to take care of excess water in hopes to prevent the ongoing flooding problem. They will send out for bids before April of 2020 so the work can be done next summer. **A motion was made by Kevin Riley and seconded by Kevin Brueggeman to approve the bid of \$28,500.00 from MSA to do the designing and field work on the Icecap Rd. storm sewer project. Motion carried 7-0.**

Items for future consideration were:

Angelo Road sidewalk – who is to be taking care of the shoveling?

Ask Norb Brown to refurbish bicycle signs.

**A motion was made by Jim Church and seconded by Kevin Brueggeman to adjourn at 6:35 p.m. Motion carried 7-0.**

Respectfully submitted,

Julie Hanson  
City Clerk

To: Board of Public Works  
From: Mark Van Wormer, Director of Public Works  
Date: December 11, 2019  
Subject: Public Works December Monthly Report

### **Airport**

\_\_A new lift gate for access to the hangar area was installed and should be operational soon, Fort McCoy is dealing with a communication issue with the card reader.

### **Project Updates**

#### **Paper Mill Dam Project**

MSA is working on specifications to rebid the repair project this winter.

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

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

#### **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. A new street department employee will be hired shortly, currently conducting interviews to replace Greg Fortun.

**City of Sparta Water Utility**  
**Operation and Maintenance Report**  
**November, 2019**

In November we pumped 30,128,000 gallons of water compared to 32,780,000 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 November:

- Completed the monthly bacti samples.
- Completed the monthly fluoride sample.
- Ran standby engines and generators for the monthly tests.
- Hydrant flags have been installed and the first round of checking hydrants, for drain down, has been completed.
- We have installed no drain valve seats in several of our hydrants due to the high water table. Groundwater was entering and filling the hydrant barrel through the weep hole. During normal conditions, the weep hole is designed to allow water to drain out of the barrel of the hydrant after use, to prevent it from freezing during the winter months.
- Hydrant C198 (Icecap Rd.) will be out of service for the winter. This hydrant will need to be replaced next spring/summer as the threads in the shoe are damaged. Digging it now would be difficult with the high water table. The hydrant has been bagged and the fire chief has been notified.
- We worked on some disconnects for unpaid bills. This is time consuming, but very effective in recovering past due payments. We recovered a substantial amount of money and most customers have since been turned back on.
- We have completed the November quarterly meter reading and now are following up on no reads and other troubleshooting of meters and mxu radio boxes.
- I met with Todd Halvorson from MSA in regards to continuing to enhance our GIS mapping system for the upcoming year.
- Todd F., Mark V and myself met with Representatives of the Morrow Home in regards to an addition that they are planning on starting in the spring of 2020. This addition will be north of the existing complex.
- We received a chemical delivery, from Hawkins Chemical Group at some of our well houses.
- 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, Diggers Hotline ticket locates.
- We have started to work on year end inventory as time allows.
- We completed the monthly meter reading route for our large customers.

*Todd Hanson*  
*Supervisor*  
*Sparta Water Utility*

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

**Dec-Nov 2019 (Nov13<sup>th</sup> -Dec 11<sup>th</sup>)**

Month of Nov 2019

1. Phosphorus analyzer system project
  - a. Firmware issue with analyzer, Addressing with Mulchay Shaw and YSI
    - i. Firmware update 12/9, still a sampling issue with standard 0
    - ii. Equipment unable to perform as intended, currently validating results with in-process testing until YSI can rectify the equipment issues
  - b. Average reduction of chemical at 30%
2. Trickle filter issues continue.
  - a. Off line and freezing out snails
  - b. Have not been managed for at least 15years for snail management, drastically reducing treatment ability. Exploring means of refurbishing into other treatment methods
3. 5S projects still in progress will be long and ongoing
4. Computer network complete
  - a. Updated to windows 10
  - b. SCADA process control computer windows 10 upgrade
    - i. Estimated to be complete by end of Jan. 2020
    - ii. Camera security/ and septage hauling control being implemented and waiting for install
      1. Will use fiber optic network and PLC panels for solid uninterrupted communications,
      2. Cheaper than WIFI and more reliable
5. Collection System
  - a. Three residential backups, all lateral issues
  - b. East main backing up from Rusk going west two manholes, flushed
  - c. Walmart (Alpine and Wisconsin) collection seems to be solved at least for the past 9 weeks
  - d. Sheri Lynn repaired, still leaking, Hydro Clean coming back out for warranty work again
  - e. Collector app/MSA continuous work in progress updating value additions to app with Todd Halverson for PM and maintenance history
  - f. Grease removal and break down experiment in liftstations lband, Hoeschler, and Walrath underway to lead to accepting grease trap wastes in 2<sup>nd</sup> receiving tank for revenue generation
  - g. New jetter nozzle "BullDog" making a big difference in weekly and monthly jetting as customers have noticed improved cleaning action as noted from Dennis Johnson's (Streets) folks. Also, illuminated a once un-jettable main on

Montgomery. Due to residential flooding. We are able to jet that main with great success.

- i. Looking into a root cutter nozzle for Jetter to make root cutting a 1 man operation
  - ii. Vactor root cutter head reassembled but not field tested, not optimistic about its ability to function regardless this is always a 2 man operation at least until the hose reel is upgraded
6. Synagro and solid applications conundrum
  - a. We have applied about 80% of the 1MG municipal solids we were hoping to remove from our tank but overall are in good shape moving into the spring
  - b. Plan B establish with A1 Advanced and Feyens Arcade as a backup for any needed future storage.
  - c. Exploring hauler options for the near future (2-5yrs) Locally versus Synagro
  - d. Improved load out pipe with flanges and lay-flat hose to reduce spillage from solids loading
7. Receiving building relations with industries and haulers
  - a. Work in progress to obtain more revenue
    - i. We are at about 50% capacity for nutrient and BOD removal capacity
    - ii. Brokering deal with Foremost on 100K+ annual revenue deal plus possible infrastructure improvements (Both Foremost and WWTP are working favorably towards this partnership
    - iii. Reaching out to haulers to get more waste including grease traps
      1. Plan to use 2<sup>nd</sup> receiving tank for grease breakdown and disposal while increase nutrient loading to plant plus revenue
8. Waiting for check form Synagro on sale of the Terra Gator
9. RAS pump #9 has failed and looking for replacement options with VFD
10. Digester issues and several call-ins regarding digester gas management and failing valving, lack of mixing, and maintaining proper temperature.
  - a. Over pressurizing and lack of ability to burn off is a very concern able hazard.
  - b. Dave Sauer and I are moving forward with 2020 CIP on digester to rectify this
  - c. Exploring means to manually throttle burn gas to reduce safety hazards in building 80 until the CIP is under way.
11. Building 45 both heaters in repair as well as thermostat. Trying to maintain heat in building until replacement parts come in for one heater and the other heater is further troubleshoot
12. Gravity Belt Thickener polymer tests
  - a. Found alternative polymer that showed 30% reduction in polymer use plus 40 cent /lb savings. Will use trial tote starting mid Jan-Feb 2020. Around 2-3K savings
13. UV system
  - a. Aging system 15+ years in need of several thousand dollars of repair/maintenance. Items that must be addressed prior to April 2020 in the 96-bulb system:
    - i. 75% severally blocking of the sleeves \$130 each which severally block UV transmittance

- ii. Programing reboot and new HMI panel \$15K
    - iii. 50% minimum bulbs \$380 each
    - iv. FeCl<sub>3</sub> very detrimental regarding the LCA of the quartz sleeves
    - v. Running old inefficient bulbs most all of them past their effective UV transmittance LCA
  - b. Reassessing the flow/UV transmittance to best determine the maintenance and repair costs. Roughly 30K and higher Our UV system is way oversized
  - c. To reduce further accelerated replacement of UV equipment we are looking at changing the P coagulant from FeCl<sub>3</sub> to Alum or PAC. FeCl<sub>3</sub> creates pitting on \$130 protection sleeves which drastically reduces UV treatment and greatly reduces the LCA of the sleeves to around 2-3 years rather than over double that.
  - d. Exploring other options of UV systems compared to 4 options of refurbishing the existing UV unit to take us into the next 20 years of disinfection. Have one in mind which I'm exploring.
14. Sight Management Plan
- a. Preliminary work on Facility Management Plan
    - i. A plan of direction over the next 20 years
    - ii. Allows for DNR funding
    - iii. Extremely informative tool as to what and how to address community and industrial needs as a WWTP service.
    - iv. Prevents poor planned infrastructure improvements from not being sized properly for present and future needs, as well as assessing the best value-added technology moving into sustainability
15. Final conclusion
- a. We're at ½ cBOD loading capacity, I need waste and receiving, actively pursuing revenue options. Cultivating customer and industrial relations
  - b. Aeration blowers themselves are under-sized for each individual AS channel, motors are old and power parasites. Upgrading blower 4 is turning into replace/upgrade on blower and motor. Need blower to be able to running most of the time at 60% capacity and be able to ramp up for on demand O<sub>2</sub> uptake and ramp down during lesser loading, not two blowers at 100% and 85% respectively which we currently have to run.
  - c. Dire need to change chemical coagulant to improve LCA on UV sleeves to reduce PM costs, improve transmittance, reduce need for excessive lighting, and overall costs
  - d. Need for establishing a Facility Plan (Engineered) Cedar Corp for a 20year direction

Thank you

Dale Passehl  
Sanitation/WWTP Plant Manager

Check Number	Check Issue Date	Vendor Name	Invoice GL Account	Invoice GL Account Title	Invoice Number	Amount	Description
121713	11/07/2019	WISCONSIN BUIL	700-53830-930	MISCELLANEOUS GE	7166251	1,239.63-	(4) DESK TOPS
121719	11/01/2019	Gerke Excavating In	700-53920-210	PROFESSIONAL SERV	19SP-01 S3680-001	97,262.87	STORMWATER/SEDIMEN
121756	11/06/2019	1ST COMMUNITY	700-53830-930	MISCELLANEOUS GE	1453 10/28/19	13.69	SANITATION DEPT
121756	11/06/2019	1ST COMMUNITY	700-53830-340	OPERATING SUPPLIE	1453 10/28/19	225.00-	SANITATION DEPT
121756	11/06/2019	1ST COMMUNITY	700-53920-320	PUBLICATIONS/SEMIN	1453 10/28/19	274.90	SANITATION DEPT
121756	11/06/2019	1ST COMMUNITY	700-53830-930	MISCELLANEOUS GE	1453 10/28/19	1,239.63	SANITATION DEPT
121756	11/06/2019	1ST COMMUNITY	700-53920-320	PUBLICATIONS/SEMIN	1453 10/28/19	99.99	SANITATION DEPT
121758	11/06/2019	ADVANCE AUTO P	700-53870-240	REPAIRS & MAINTENA	1580-321888	24.80	BELT-DIGESTER
121769	11/06/2019	Hydrite Chemical C	700-53820-824	FERRIC CHLORIDE	02301260	7,120.04	Ferric chloride
121774	11/06/2019	L W Allen LLC	700-53830-210	PROFESSIONAL SERV	100832	529.24	INSTALL NEW BATTERIE
121774	11/06/2019	L W Allen LLC	700-53830-210	PROFESSIONAL SERV	100846	1,133.42	BLOWER ISSUES-D.O. DI
121775	11/06/2019	MARKLAND SPECI	700-53830-340	OPERATING SUPPLIE	21208	1,104.17	SLEDGE LEVEL DETECT
121776	11/06/2019	MISSISSIPPI WELD	700-53830-273	TOOLS	3084191	82.80	CORE WIRE/FLEX WHEE
121778	11/06/2019	Mulcahy Shaw Wate	700-53870-240	REPAIRS & MAINTENA	322225	3,158.72	REPLACE BROKEN UV E
121782	11/06/2019	QUILL CORPORATI	700-53920-310	OFFICE SUPPLIES	1630168	77.00	HP 78A BLACK TONER 2
121793	11/06/2019	WE ENERGIES	700-53860-340	OPERATING SUPPLIE	7241-288-912 10/19	10.64	GAS-JULIE AVE
121794	11/06/2019	XCEL ENERGY	700-53860-340	OPERATING SUPPLIE	52-8129801-9 10/19	31.09	ELECTRIC-HANSON PL S
121794	11/06/2019	XCEL ENERGY	700-53860-340	OPERATING SUPPLIE	52-9873089-3 10/19	24.26	Electric-HEMSTOCK DR
121805	11/08/2019	Sparta Postmaster	700-53920-342	POSTAGE	11/8/19	119.35	3RD QTR POSTAGE-DISC
121807	11/12/2019	ENVIRONMENTAL	700-53920-210	PROFESSIONAL SERV	Q-400056	350.00	ARCGIS ONLINE FIELD W
121819	11/15/2019	JOHN DEERE FINA	700-53870-240	REPAIRS & MAINTENA	1771409	23.44	CARPENTERS WOOD GL
121829	11/15/2019	VERIZON WIRELE	700-53920-391	TELEPHONE	9841304741	47.81	SANITATION DEPT
121829	11/15/2019	VERIZON WIRELE	700-53830-930	MISCELLANEOUS GE	9841304741	78.02	SEWER IPAD
121870	11/20/2019	A-1 Advanced Pump	700-53830-923	OUTSIDE SERVICES	44664	5,100.00	SLUDGE HAULING 11/8-1
121874	11/20/2019	Cedar Corporation	700-53920-210	PROFESSIONAL SERV	101439	270.00	PHOSHORUS FACILITY P
121874	11/20/2019	Cedar Corporation	700-53920-210	PROFESSIONAL SERV	101440	11,219.86	STORM SEWER UPGRAD
121876	11/20/2019	COULEE TECH INC	700-53920-310	OFFICE SUPPLIES	1587	224.09	STARTECH 9U WALLMOU
121876	11/20/2019	COULEE TECH INC	700-53830-930	MISCELLANEOUS GE	1632	1,225.50	IT SERVICES-OCT 2019
121877	11/20/2019	CROELL INC	700-53880-348	GROUND MAINTENA	399597	103.50	4000 PSI-RICHGRUBER R
121878	11/20/2019	EVANS PRINT & M	700-53920-310	OFFICE SUPPLIES	2003	672.50	WATER BILS/ENVELOPE
121881	11/20/2019	Haas Sons Inc	700-01070	CONSTRUCTION WOR	REQUEST NO 5-FI	16,560.00	STREET & UTILITY RECO
121885	11/20/2019	MISSISSIPPI WELD	700-53830-340	OPERATING SUPPLIE	3073875	45.00	8/3 ADAPTER
121885	11/20/2019	MISSISSIPPI WELD	700-53830-340	OPERATING SUPPLIE	3074075	343.17	COMPRESSED ARGON
121891	11/20/2019	SPARTA COOPERA	700-53840-371	GAS/OIL	5724 10/19	72.01	GAS CHGS - OCT 2019
121893	11/20/2019	The Hardware Store	700-53830-930	MISCELLANEOUS GE	A344975	1.72	HARDWARE
121896	11/20/2019	WI State Lab of Hyg	700-53920-930	MISCELLANEOUS GE	610883	538.00	LAB SAMPLES-EN215 50
121897	11/22/2019	A-1 Advanced Pump	700-53830-923	OUTSIDE SERVICES	44690	21,660.00	PUMP WWTP & LAND AP
121899	11/22/2019	Brad Olson Electric	700-03309	ADVANCE TREATMEN	19-1407	9,721.27	PO4 PROJECT UPGRADE
121901	11/22/2019	CenturyLink	700-53860-340	OPERATING SUPPLIE	301277774 11/19	43.18	TELEPHONE
121901	11/22/2019	CenturyLink	700-53920-391	TELEPHONE	301283737 11/19	242.10	TELEPHONE-6824
121901	11/22/2019	CenturyLink	700-53860-340	OPERATING SUPPLIE	301283737 11/19	47.14	TELEPHONE-2915
121902	11/22/2019	CHOICE SECURIT	700-03980	MISCELLANEOUS EQ	410	2,648.50	SECURITY EQUIPMENT
121905	11/22/2019	KWIK TRIP INC	700-53840-371	GAS/OIL	384132 10/31/19	131.10	GAS CHGS-OCT
121905	11/22/2019	KWIK TRIP INC	700-53840-371	GAS/OIL	384132 10/31/19	138.32	DIESEL CHGS-OCT
121912	11/22/2019	Tri-State Business	700-53920-310	OFFICE SUPPLIES	476685	49.55	CANON IR3570 CONTRA
121915	11/22/2019	XCEL ENERGY	700-53860-340	OPERATING SUPPLIE	52-6161035-7 11/19	68.56	ELECTRIC-WALRATH ST
121915	11/22/2019	XCEL ENERGY	700-53860-340	OPERATING SUPPLIE	52-6161035-7 11/19	24.53	ELECTRIC-JANE DR
121915	11/22/2019	XCEL ENERGY	700-53860-340	OPERATING SUPPLIE	52-6161035-7 11/19	35.24	ELECTRIC-ST HWY 16
121915	11/22/2019	XCEL ENERGY	700-53860-340	OPERATING SUPPLIE	52-6161035-7 11/19	247.93	ELECTRIC-HOESCHLER
121915	11/22/2019	XCEL ENERGY	700-53860-340	OPERATING SUPPLIE	52-6161035-7 11/19	46.54	ELECTRIC-1/2 A ST
121915	11/22/2019	XCEL ENERGY	700-53810-220	ELECTRIC	52-6161035-7 11/19	8,445.12	ELECTRIC-RICHGRUBER
121915	11/22/2019	XCEL ENERGY	700-53860-340	OPERATING SUPPLIE	52-6161035-7 11/19	124.59	ELECTRIC-JULIE AVE
121915	11/22/2019	XCEL ENERGY	700-53860-340	OPERATING SUPPLIE	52-6161035-7 11/19	88.09	ELECTRIC-IBAND AVE
121928	11/27/2019	ADVANCE AUTO P	700-53870-240	REPAIRS & MAINTENA	1580-322432	23.32	HYDRAULIC FITTING/BUL
121929	11/27/2019	All American Do It C	700-53830-930	MISCELLANEOUS GE	001-185360	78.95	ADJ ELBOW/FLASHING
121930	11/27/2019	Band Box Cleaners	700-53830-250	CUSTODIAN SERVICE	70143	75.30	TOWEL GLASS
121933	11/27/2019	Davy Laboratories	700-53830-923	OUTSIDE SERVICES	19K0018	156.75	LAB BIOCHEM/PHOSPHO
121933	11/27/2019	Davy Laboratories	700-53830-923	OUTSIDE SERVICES	19K0105	98.25	LAB BIOCHEM/PHOSPHO
121933	11/27/2019	Davy Laboratories	700-53830-923	OUTSIDE SERVICES	19K0162	196.50	LAB NITROGEN/PHOSPH
121936	11/27/2019	Mid-American Rese	700-53860-340	OPERATING SUPPLIE	0679916-IN	2,440.15	DOUBLE STRENGTH SU

Check Number	Check Issue Date	Vendor Name	Invoice GL Account	Invoice GL Account Title	Invoice Number	Amount	Description
121937	11/27/2019	QUILL CORPORATI	700-53920-310	OFFICE SUPPLIES	2816360	23.96	MONTHLY DESK CALEND
121938	11/27/2019	The Hardware Store	700-53830-930	MISCELLANEOUS GE	A347299	7.98	S-HOOK EXTENDER
121938	11/27/2019	The Hardware Store	700-53830-930	MISCELLANEOUS GE	A347299	.80-	S-HOOK EXTENDER
121938	11/27/2019	The Hardware Store	700-53830-930	MISCELLANEOUS GE	A347599	2.45	HARDWARE
121938	11/27/2019	The Hardware Store	700-53830-930	MISCELLANEOUS GE	A347599	.25-	HARDWARE
121938	11/27/2019	The Hardware Store	700-53870-240	REPAIRS & MAINTENA	A347716	35.80	GALY STREET 90 DEG/H
121938	11/27/2019	The Hardware Store	700-53870-240	REPAIRS & MAINTENA	A347716	3.58-	GALY STREET 90 DEG/H
121938	11/27/2019	The Hardware Store	700-53830-930	MISCELLANEOUS GE	A348341	25.99	CAN DIESEL
121938	11/27/2019	The Hardware Store	700-53830-930	MISCELLANEOUS GE	A348341	2.60-	CAN DIESEL
121938	11/27/2019	The Hardware Store	700-53870-240	REPAIRS & MAINTENA	A348455	65.84	SLUDGE LOADOUT FLAN
121938	11/27/2019	The Hardware Store	700-53870-240	REPAIRS & MAINTENA	A348455	6.58-	SLUDGE LOADOUT FLAN
121938	11/27/2019	The Hardware Store	700-53830-930	MISCELLANEOUS GE	A348466	19.99	TIE DOWN RCHT
121938	11/27/2019	The Hardware Store	700-53830-930	MISCELLANEOUS GE	A348466	2.00-	TIE DOWN RCHT
121938	11/27/2019	The Hardware Store	700-53830-930	MISCELLANEOUS GE	B309491	18.51	KEYS/WDE MOULDG
121938	11/27/2019	The Hardware Store	700-53830-930	MISCELLANEOUS GE	B309491	1.85-	KEYS/WDE MOULDG
121938	11/27/2019	The Hardware Store	700-53870-240	REPAIRS & MAINTENA	B309774	19.99	BROOM SNOW
121938	11/27/2019	The Hardware Store	700-53870-240	REPAIRS & MAINTENA	B309774	2.00-	BROOM SNOW
121938	11/27/2019	The Hardware Store	700-53870-240	REPAIRS & MAINTENA	B310252	17.25	TRICKLING FILTER
121938	11/27/2019	The Hardware Store	700-53870-240	REPAIRS & MAINTENA	B310252	1.73-	TRICKLING FILTER
121941	11/27/2019	USA Blue Book	700-53830-340	OPERATING SUPPLIE	064446	339.27	VARIABLE VOLUME PIPE
121941	11/27/2019	USA Blue Book	700-53870-240	REPAIRS & MAINTENA	056056	194.13	UV PROTECTION SCREE
121941	11/27/2019	USA Blue Book	700-53870-240	REPAIRS & MAINTENA	058618	371.18	UV PROTECTION SCREE
121941	11/27/2019	USA Blue Book	700-53870-240	REPAIRS & MAINTENA	060974	39.95	PIPET TIPS BEVEL POINT
121941	11/27/2019	USA Blue Book	700-53830-340	OPERATING SUPPLIE	072444	333.66	PIPET STAND HOLDS/PIP
121942	11/27/2019	Vierbicher Associate	700-01070	CONSTRUCTION WOR	0001680042	636.59	CHESTER ST RECONSTR
121943	11/27/2019	Walmart Community	700-53830-340	OPERATING SUPPLIE	TR# 00762	11.16	DRVWAY BLUE
121943	11/27/2019	Walmart Community	700-53830-250	CUSTODIAN SERVICE	TR#03253	75.47	CLOG REMOVER/CLXCL
121943	11/27/2019	Walmart Community	700-53830-930	MISCELLANEOUS GE	TR#05031	42.16	CAR VAN/MAGNETS
121945	11/27/2019	PASSEHL, DALE	700-53830-273	TOOLS	11/27/19	480.00	WELDING CURTAIN KIT

Grand Totals:

197,287.52

Check Number	Check Issue Date	Vendor Name	Invoice GL Account	Invoice GL Account Title	Invoice Number	Amount	Description
121721	11/01/2019	USA Blue Book	100-53100-325	SAFETY PROGRAM	52151	290.72	GLOVES/SAFETY
121758	11/06/2019	ADVANCE AUTO P	100-53240-240	REPAIRS & MAINTENA	1580-322164	38.20	6G 6MP/HYDRAULI
121758	11/06/2019	ADVANCE AUTO P	100-53240-240	REPAIRS & MAINTENA	1580-322194	33.52	6G 6MP/HYDRAULI
121759	11/06/2019	All American Do It C	100-53440-340	OPERATING SUPPLIE	001-177239	30.32	CONCRETE MIX-G
121759	11/06/2019	All American Do It C	100-53300-340	OPERATING SUPPLIE	001-180593	19.47	YELLOW MARKING
121759	11/06/2019	All American Do It C	100-53300-340	OPERATING SUPPLIE	001-180895	6.99	GANG BRZ OUTDO
121760	11/06/2019	AT & T MOBILITY	100-53230-391	TELEPHONE	11012019	6.09	STREET DEPT SU
121765	11/06/2019	ENTERPRISE LIGH	100-53300-340	OPERATING SUPPLIE	E14965	40.22	CREE LED ROADW
121765	11/06/2019	ENTERPRISE LIGH	100-53300-340	OPERATING SUPPLIE	E14972	366.24	CREE LED ROADW
121773	11/06/2019	KWIK TRIP INC	100-53240-371	GAS/OIL	319405 10/31/19	2,735.23	STREET DEPT GA
121790	11/06/2019	The Hardware Store	100-53240-240	REPAIRS & MAINTENA	A344909	4.99	SUPER GLUE GEL
121790	11/06/2019	The Hardware Store	100-53240-240	REPAIRS & MAINTENA	A344909	.50	SUPER GLUE GEL
121790	11/06/2019	The Hardware Store	100-53240-240	REPAIRS & MAINTENA	A345084	23.14	HARDWARE
121790	11/06/2019	The Hardware Store	100-53240-240	REPAIRS & MAINTENA	A345084	2.31	HARDWARE
121790	11/06/2019	The Hardware Store	100-53240-240	REPAIRS & MAINTENA	A345474	18.40	HARDWARE
121790	11/06/2019	The Hardware Store	100-53240-240	REPAIRS & MAINTENA	A345474	1.84	HARDWARE
121790	11/06/2019	The Hardware Store	100-53240-240	REPAIRS & MAINTENA	A345745	22.48	HARDWARE
121790	11/06/2019	The Hardware Store	100-53240-240	REPAIRS & MAINTENA	A345745	2.25	HARDWARE
121790	11/06/2019	The Hardware Store	100-53240-240	REPAIRS & MAINTENA	A345755	11.98	BLACK SPRAY PAI
121790	11/06/2019	The Hardware Store	100-53240-240	REPAIRS & MAINTENA	A345755	1.20	BLACK SPRAY PAI
121790	11/08/2019	The Hardware Store	100-53300-340	OPERATING SUPPLIE	A345758	11.98	WHITE MARKING P
121790	11/06/2019	The Hardware Store	100-53300-340	OPERATING SUPPLIE	A345758	1.20	WHITE MARKING P
121790	11/06/2019	The Hardware Store	100-53300-340	OPERATING SUPPLIE	A346022	27.47	LETTERS/NUMBER
121790	11/06/2019	The Hardware Store	100-53300-340	OPERATING SUPPLIE	A346022	2.75	LETTERS/NUMBER
121790	11/06/2019	The Hardware Store	100-53300-340	OPERATING SUPPLIE	A346179	3.98	GANG BLANK COV
121790	11/06/2019	The Hardware Store	100-53300-340	OPERATING SUPPLIE	A346179	.40	GANG BLANK COV
121790	11/06/2019	The Hardware Store	100-53240-240	REPAIRS & MAINTENA	A346423	42.48	HARDWARE
121790	11/06/2019	The Hardware Store	100-53240-240	REPAIRS & MAINTENA	A346423	4.25	HARDWARE
121790	11/06/2019	The Hardware Store	100-53240-240	REPAIRS & MAINTENA	A346678	38.40	HARDWARE/WASH
121790	11/06/2019	The Hardware Store	100-53240-240	REPAIRS & MAINTENA	A346678	3.84	HARDWARE/WASH
121790	11/06/2019	The Hardware Store	100-53240-240	REPAIRS & MAINTENA	A347109	33.97	BATTERY/LARRY L
121790	11/06/2019	The Hardware Store	100-53240-240	REPAIRS & MAINTENA	A347109	3.40	BATTERY/LARRY L
121790	11/06/2019	The Hardware Store	100-53300-340	OPERATING SUPPLIE	B307643	32.76	ALUM OUTLET/RE
121790	11/06/2019	The Hardware Store	100-53300-340	OPERATING SUPPLIE	B307643	3.28	ALUM OUTLET/RE
121790	11/06/2019	The Hardware Store	100-53300-340	OPERATING SUPPLIE	B308027	3.35	WIRE CONNECTO
121790	11/06/2019	The Hardware Store	100-53300-340	OPERATING SUPPLIE	B308027	33.52	WIRE CONNECTO
121790	11/06/2019	The Hardware Store	100-53300-340	OPERATING SUPPLIE	B308549	30.96	ALUM OUTLET/RE
121790	11/06/2019	The Hardware Store	100-53300-340	OPERATING SUPPLIE	B308549	3.10	ALUM OUTLET/RE
121790	11/06/2019	The Hardware Store	100-53300-340	OPERATING SUPPLIE	B308853	8.97	GANG BLANK COV
121790	11/06/2019	The Hardware Store	100-53300-340	OPERATING SUPPLIE	B308853	.90	GANG BLANK COV
121790	11/06/2019	The Hardware Store	100-53300-340	OPERATING SUPPLIE	B308999	15.99	RCPT DPLX GFCI
121790	11/06/2019	The Hardware Store	100-53300-340	OPERATING SUPPLIE	B308999	1.60	RCPT DPLX GFCI
121790	11/06/2019	The Hardware Store	100-53300-340	OPERATING SUPPLIE	B309000	31.46	ZINC HEX BOLT/HA
121790	11/06/2019	The Hardware Store	100-53300-340	OPERATING SUPPLIE	B309000	3.15	ZINC HEX BOLT/HA
121790	11/06/2019	The Hardware Store	100-53300-340	OPERATING SUPPLIE	B309002	3.87	HARDWARE
121790	11/06/2019	The Hardware Store	100-53300-340	OPERATING SUPPLIE	B309002	.39	HARDWARE
121791	11/06/2019	TRAFFIC & PARKIN	100-53340-340	OPERATING SUPPLIE	1652916	134.28	SPEED LIMIT SIGN
121794	11/06/2019	XCEL ENERGY	100-53420-000	STREETE LIGHTING	52-6161034-6 10/19	20.52	LIGHTS-107 N WAT
121794	11/06/2019	XCEL ENERGY	100-53510-220	ELECTRIC	52-6334618-9 10/19	35.74	AIRPORT-6083
121794	11/06/2019	XCEL ENERGY	100-53420-000	STREETE LIGHTING	52-8821676-4 10/19	40.67	LIGHTS-208 S WAT
121794	11/06/2019	XCEL ENERGY	100-53420-000	STREETE LIGHTING	52-8821940-5 10/19	303.72	LIGHTS-109 N WAT
121794	11/06/2019	XCEL ENERGY	100-53420-000	STREETE LIGHTING	52-8821941-6 10/19	52.45	LIGHTS-517 N WAT
121801	11/07/2019	MONROE COUNTY	100-53620-000	GARBAGE & REFUSE	001-1019	597.50	ELCTRONICS/APP
121803	11/07/2019	SPARTA COOPERA	100-53240-371	GAS/OIL	5127 10/31/19	650.00	GAS CHGS - OCT 2
121803	11/07/2019	SPARTA COOPERA	100-53240-240	REPAIRS & MAINTENA	5127 10/31/19	215.61	TIRES & TUBES
121804	11/07/2019	XCEL ENERGY	100-53420-000	STREETE LIGHTING	52-9213733-6 10/19	123.70	LIGHTS-116 W MAI
121807	11/12/2019	ENVIRONMENTAL	100-53230-340	OPERATING SUPPLIE	Q-400056	350.00	ARCGIS ONLINE FI

Check Number	Check Issue Date	Vendor Name	Invoice GL Account	Invoice GL Account Title	Invoice Number	Amount	Description
121807	11/12/2019	ENVIRONMENTAL	100-53100-340	OPERATING SUPPLIE	Q-400056	350.00	ARCGIS ONLINE FI
121810	11/12/2019	MODERN DISPOS	100-53620-000	GARBAGE & REFUSE	11/15/19	17,608.92	GARBAGE & REFU
121815	11/15/2019	CenturyLink	100-53510-391	TELEPHONE	301280811 11/4/19	179.85	AIRPORT
121829	11/15/2019	VERIZON WIRELE	100-53100-391	TELEPHONE	9841304741	47.81	DPW
121829	11/15/2019	VERIZON WIRELE	100-53230-391	TELEPHONE	9841304741	40.01	STREET IPAD
121831	11/15/2019	XCEL ENERGY	100-53420-000	STREETE LIGHTING	52-6161038-0 11/4/	7,935.83	LIGHTS
121831	11/15/2019	XCEL ENERGY	100-53510-220	ELECTRIC	52-6161038-0 11/4/	322.03	AIRPORT
121831	11/15/2019	XCEL ENERGY	100-53230-220	ELECTRIC	52-6161038-0 11/4/	155.89	SHOP
121842	11/18/2019	WI DEPT OF TRAN	400-54000-732	STREETS - RECONST	395-0000150138	1,337.09	IH 90-STH 16 6/30/
121878	11/20/2019	EVANS PRINT & M	100-53100-340	OPERATING SUPPLIE	1962	40.00	BUSINESS CARDS
121881	11/20/2019	Haas Sons Inc	400-54000-732	STREETS - RECONST	REQUEST NO 5-FI	94,183.00	STREET & UTILITY
121900	11/22/2019	BRENENGEN FOR	100-53240-240	REPAIRS & MAINTENA	37259	57.58	RELAY ASY-GL
121901	11/22/2019	CenturyLink	100-53230-391	TELEPHONE	301284392 11/19	156.08	CITY SHOP
121903	11/22/2019	Hagen's Sales & Se	100-53330-340	OPERATING SUPPLIE	551803	33.39	CHAIN/SPARK PLU
121903	11/22/2019	Hagen's Sales & Se	100-53330-340	OPERATING SUPPLIE	551805	71.94	TRIMMER LINE/STI
121904	11/22/2019	HARTJE TIRE & SE	100-53240-240	REPAIRS & MAINTENA	40-69109	6,228.60	TIRES/O RINGS/DI
121907	11/22/2019	MODERN DISPOS	100-53620-000	GARBAGE & REFUSE	87668	2,066.30	RECYCLE SURCH
121912	11/22/2019	Tri-State Business	100-53100-340	OPERATING SUPPLIE	476685	49.54	CANON IR3570 CO
121915	11/22/2019	XCEL ENERGY	100-53420-000	STREETE LIGHTING	52-7351573-2 10/19	46.56	318 S CHESTER S
121923	11/26/2019	MODERN DISPOS	100-53620-000	GARBAGE & REFUSE	12/1/19	17,608.92	GARBAGE & REFU
121924	11/26/2019	MORTON SALT	100-53320-340	OPERATING SUPPLIE	5401965926	7,442.85	BULK SAFETY SAL
121926	11/26/2019	USA Blue Book	100-53100-325	SAFETY PROGRAM	68439	38.88	RED ZONE DEFEN
121927	11/26/2019	XCEL ENERGY	100-53510-220	ELECTRIC	52-0793737-9 11/18	59.23	AIRPORT-6086
121937	11/27/2019	QUILL CORPORATI	100-53230-340	OPERATING SUPPLIE	2816360	5.99	MONTHLY DESK C
121942	11/27/2019	Vierbicher Associate	400-54000-732	STREETS - RECONST	0001680042	636.58	CHESTER ST REC

Grand Totals:

163,151.15

Check Number	Check Issue Date	Vendor Name	Invoice GL Account	Invoice GL Account Title	Invoice Number	Amount	Description
121716	11/01/2019	B & B PLUMBING I	600-53630-643	MISC EXPENSES WAT	1943	33.85	3/8 COM/LAV SUPPLY
121761	11/06/2019	B & B PLUMBING I	600-53600-626	MISC EXPENSES PUM	1984	54.90	CAST IRON CLEANOUT
121766	11/06/2019	EVANS PRINT & M	600-53900-906	CUSTOMER SERVICE	32067	70.00	10/3/19 HYDRANT FLUSH
121768	11/06/2019	Gerke Excavating In	600-53650-683	MAINT TRANSMN & DI	36576	8,472.67	REPAIR WATER MAIN BR
121774	11/06/2019	L W Allen LLC	600-53600-633	MAINTENANCE OF PU	100810	553.54	SVC LABOR-WELL 9 CTR
121774	11/06/2019	L W Allen LLC	600-03460	METERS - TRANS & DI	100833	5,992.76	REPLACE WELL 9 MAG M
121774	11/06/2019	L W Allen LLC	600-53600-633	MAINTENANCE OF PU	100839	694.74	SVC LABOR-WELL 2 CTR
121782	11/06/2019	QUILL CORPORATI	600-53920-921	OFFICE EXPENSES	1630168	76.99	HP 78A BLACK TONER 2
121786	11/06/2019	SPARTA COOPERA	600-53920-933	TRANSPORTATION	5128 10/19	655.19	GAS CHGS - OCT 2019
121794	11/06/2019	XCEL ENERGY	600-53600-623	FUEL & POWER PURC	52-6161036-8 10/19	2,034.44	ELECTRIC-STANDARD D
121794	11/06/2019	XCEL ENERGY	600-53600-623	FUEL & POWER PURC	52-8327905-4 11/19	76.77	ELECTRIC-3185 RILEY R
121795	11/07/2019	Blazek, Richard & G	600-01420	CUSTOMER ACCOUN	092566 1-45066700	90.86	REFUND OVERPYMT-234
121799	11/07/2019	Leuther Lab LLC	600-53630-642	OPERATION LABOR &	11111 - 10/19	50.00	LAB-COLIFORM
121800	11/07/2019	LYDEN, NOAH	600-01421	CUSTOMER ACCOUN	21642 1-14043100-	199.62	REFUND OVERPYMT-930
121800	11/18/2019	LYDEN, NOAH	600-01421	CUSTOMER ACCOUN	21642 1-14043100-	199.62	REFUND OVERPYMT-930 V
121805	11/08/2019	Sparta Postmaster	600-53900-905	MISC CUSTOMER AC	11/8/19	119.35	3RD QTR POSTAGE-DISC
121807	11/12/2019	ENVIRONMENTAL	600-53920-923	OUTSIDE SERVICES	Q-400056	350.00	ARCGIS ONLINE FIELD W
121812	11/12/2019	Tway, Amber	600-01420	CUSTOMER ACCOUN	1.092971	152.20	REFUND OVERPYMT PE
121813	11/12/2019	XCEL ENERGY	600-53600-623	FUEL & POWER PURC	52-8090251-0 11/19	152.18	ELECTRIC-ICECAP RD
121819	11/15/2019	JOHN DEERE FINA	600-53600-623	FUEL & POWER PURC	1765482	39.95	LED BULB/6 VOLT BATTE
121819	11/15/2019	JOHN DEERE FINA	600-53600-626	MISC EXPENSES PUM	1774523	13.47	SPRAY PAINT
121819	11/15/2019	JOHN DEERE FINA	600-53600-626	MISC EXPENSES PUM	1775360	41.98	V BELT
121829	11/15/2019	VERIZON WIRELE	600-53650-665	MISC EXPENSES TRA	9841304741	120.03	WATER IPAD
121837	11/18/2019	Intihar, Jonelle	600-01420	CUSTOMER ACCOUN	1-27049000-01	205.00	REFUND SHAWLEY PAY
121871	11/20/2019	Auto Value Parts St	600-53600-626	MISC EXPENSES PUM	525084322	13.98	J B KWICK/TURN SIGNAL
121875	11/20/2019	CorrPro Companies	600-53650-682	MAINT DISTR RESVR	579335	2,800.00	Tank inspections: Avon, To
121878	11/20/2019	EVANS PRINT & M	600-53900-905	MISC CUSTOMER AC	2003	672.50	WATER BILS/ENVELOPE
121881	11/20/2019	Haas Sons Inc	600-01070	CONSTRUCTION WOR	REQUEST NO 5-FI	16,592.00	STREET & UTILITY RECO
121883	11/20/2019	Hawkins Inc	600-53630-652	MAINT. WATER TREAT	4612681	1,122.35	VRH-100-CL2-50 VACUU
121884	11/20/2019	Kenyon Properties	600-01421	CUSTOMER ACCOUN	21642 1-14043100-	189.62	REFUND OVERPYMT-930
121886	11/20/2019	MODERN DISPOS	600-53630-643	MISC EXPENSES WAT	87633	258.12	SERVICE PULL-WELL 9 FI
121896	11/20/2019	WI State Lab of Hyg	600-53630-642	OPERATION LABOR &	612265	26.00	Lab-Fluoride
121901	11/22/2019	CenturyLink	600-53600-626	MISC EXPENSES PUM	301282035 11/19	228.96	TELEPHONE-4334
121901	11/22/2019	CenturyLink	600-53600-626	MISC EXPENSES PUM	301283684 11/19	64.08	TELEPHONE-6719
121912	11/22/2019	Tri-State Business	600-53920-921	OFFICE EXPENSES	476685	49.55	CANON IR3570 CONTRA
121913	11/22/2019	W.W.W.P. - Port Ed	600-53920-930	MISCELLANEOUS GE	12/12/19 QTRLY MT	140.00	REG-HANSON/PETERSO
121931	11/27/2019	CLEAN WATER TE	600-53630-642	OPERATION LABOR &	0168706-IN	210.00	LAB
121932	11/27/2019	Core & Main LP	600-01540	PLANT MATERIAL-OP	L458909	3,680.00	HYDRANT
121932	11/27/2019	Core & Main LP	600-53650-687	MAINTENANCE OF HY	L467404	8,200.00	WAT VALVE SEAT W/O-RI
121932	11/27/2019	Core & Main LP	600-53650-687	MAINTENANCE OF HY	L510555	160.00	HYDRANT OIL
121934	11/27/2019	Gerke Excavating In	600-53630-643	MISC EXPENSES WAT	36822	5,731.00	WELL 9 FILTER CELL 2 R
121934	11/27/2019	Gerke Excavating In	600-03480	HYDRANTS - TRANS &	36900	5,800.60	REPAIR HYDRANT B59
121935	11/27/2019	Hawkins Inc	600-53630-652	MAINT. WATER TREAT	4611937	320.00	VACUUM REGULATOR
121935	11/27/2019	Hawkins Inc	600-53630-641	CHEMICALS	4613412	6,332.52	CHLORINE/HYDROFLUO
121937	11/27/2019	QUILL CORPORATI	600-53920-921	OFFICE EXPENSES	2816360	29.95	MONTHLY DESK CALEND
121938	11/27/2019	The Hardware Store	600-53600-626	MISC EXPENSES PUM	B310445	1.58	O-RINGS/HARDWARE
121938	11/27/2019	The Hardware Store	600-53600-626	MISC EXPENSES PUM	B310445	.16	O-RINGS/HARDWARE
121940	11/27/2019	U.S. Water Services	600-53630-643	MISC EXPENSES WAT	INV482666	18,150.00	WELL 9 CELL 2 REHAB-R
121942	11/27/2019	Vierbicher Associate	600-01070	CONSTRUCTION WOR	0001680042	636.58	CHESTER ST RECONSTR
Grand Totals:						91,470.10	

Report Criteria:

Types Selected: Billings, Billing Adjustments, Payments, Payment Adjustments, Balance Transfers, Balance Write-Offs, Reallocations  
 Summarized by Service Category

Customer Number	Name	Date	Reference Number	Amount	WATER	SEWER	GARBAGE	FP
Total Billing:				714,644.52	✓ 301,274.86	✓ 337,691.42	✓ 67,090.44	8,587.80
Total Billing Adjustment:				1,375.81-	✓ 21.98-	✓ 1,321.77-	✓ 32.06-	.00
Total Payment:				15,072.91-	✓ 6,815.20-	✓ 6,420.89-	✓ 1,836.82-	.00
Total Payment Adjustment:				13,610.75-	✓ 11,036.27-	✓ 2,349.48-	✓ .00	225.00-
Total Reallocation:				-	✓ 916.78	✓ 608.42-	✓ 308.36-	.00
Total Transfer:				-	.00	.00	.00	.00
Grand Totals:				684,585.05	284,318.19	326,990.86	64,913.20	8,362.80

Report Criteria:

Types Selected: Billings, Billing Adjustments, Payments, Payment Adjustments, Balance Transfers, Balance Write-Offs, Reallocations  
 Summarized by Service Category

Customer Number	Name	Date	Reference Number	Amount	WATER	SEWER	GARBAGE	FP
Total Billing:				42,291.65	✓ 33,610.80	✓ 8,680.85	.00	.00
Total Payment:				50,982.37-	✓ 43,091.77-	✓ 7,890.60-	.00	.00
Grand Totals:				8,690.72-	9,480.97-	790.25	.00	.00



## Amendment No. 1

To: City of Sparta  
201 West Oak Street  
Sparta, WI 54656

Date of Issuance: December 6, 2019  
MSA Project No.: 00051042

This is an amendment to the Agreement dated July 27, 2016 and does acknowledge that MSA Professional Services, Inc. (MSA) is authorized to begin work on the following project amendment:

**Project Name:** 2016 Sparta Dam Repair

**The project scope has changed due to:** See amended scope of work below.

**The scope of the work authorized is:**

### **TASK #1 Prepare FEMA LOMR Application:**

The original contracted Scope of Work for Task 1 included the following items:

1. Construct HEC-HMS model
2. Calibrate HEC-HMS model
3. Solve HMS Model for Design Events
4. Submit HMS Modeling Results to WDNR
5. Construct HEC-RAS model
6. Solve RAS Model for Design Events
7. Submit RAS Modeling Results to WDNR

MSA has completed activities 1 through 4; however, modeling did not show sufficient reduction in 100 year design flows to eliminate the need for additional dam spillway capacity. A meeting with WDNR resulted in their acceptance of the existing spillway capacity - provided that less than two feet of differential head exists between headwater and tailwater conditions under design flow conditions. **With this agreement, activities 5, 6, and 7 are no longer applicable and so this amendment removes these activities from the scope of work.**

**This amendment adds Activity 8 which is described below:**

8. **Hydraulic Evaluation of Differential Head at Dam.** MSA will complete hydraulic modeling investigating headwater and tailwater differential at the dam under design flow conditions. MSA will prepare a technical report documenting the hydraulic model showing the head differential between headwater and tail water. MSA will submit this memorandum to WDNR for review with the desired goal to eliminate the need for additional dam hydraulic capacity.

**These changes result in a net engineering fee reduction of \$19,000 (new Task total = \$21,000)**

## **TASK #2 Dam Repair Design:**

This amendment retroactively adds activities already completed by MSA as directed by Lynn Jerome, DPW at a meeting on October 31, 2016 and Mark Van Wormer, DPW at a meeting on June 2, 2017 where MSA was directed to add the following scope items to the originally conceived design:

- Lift gates to replace stop logs on the main spillway,
- New access bridge across the power house millrace,
- New fence on the north side of dam,
- Replacement of all existing fence,
- Repair and residing of the existing power house building, and
- Introduction of a new high-capacity emergency spillway, in the form of an overflow section at a location along the embankment.

MSA completed construction plans and specifications for the dam repair incorporating the direction of the City per the above summary. These plans were approved by WDNR and put out for bid in early 2019. The City rejected the bids due to overall project cost.

On November 21, 2019, MSA was informed by the City that the City would like to rebid the project with the following reduced construction scope:

- Five gates for the main dam, the gates would be powered by existing outlets on the walkway and would be normally operated via electric motor triggered by a manual switch. WDNR requires emergency manual operation via a wheel or crank.
- Concrete repair for the powerhouse building foundation, and
- Concrete repair for the main dam.
- There is to be no solar power, no automatic controls, no level sensors or alarms for the lake level.

**This amendment adds activities necessary to revise existing plans, specifications, cost estimates, and bidding packages to incorporate changes as itemized above. This amendment also add activities necessary to coordinate design approval and permitting with WDNR.**

**Cumulatively, these additional activities result in a net engineering fee increase of \$33,500 (2016/2017 design revisions) + \$22,000 (new Task total = \$77,500)**

## **AMENDMENT TO MSA TASK #3:**

The original project scope included providing a total of 64 hours of time related to site visits. Because of the much more expansive construction activities, MSA will anticipates providing 326 hours of construction observation consisting of approximately 4 visits to the dam each week for a period of 12 weeks.

The following additional clarifications to the Scope of Work for Task 3 are made:

### **Owner Responsibility:**

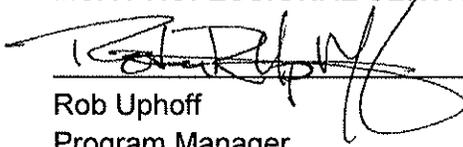
1. Obtain approval for reservoir drawdown and accomplish necessary draw-down July 9-13 for contractor inspection and gate measurements and re-fill July 17-20, 2019. The City will again draw-down September 16-20, 2019 for construction. The city will re-fill the lake before freeze-up December 2-6, 2019.



**CITY OF SPARTA**

\_\_\_\_\_  
Kristen Gust  
Mayor  
Date: \_\_\_\_\_

**MSA PROFESSIONAL SERVICES, INC.**

  
\_\_\_\_\_  
Rob Uphoff  
Program Manager  
Date: 12-6-2019

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

201 West Oak Street  
Sparta, WI 54656  
Phone: (608) 269-4340

**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.