



City of Broken Arrow
Meeting Agenda
Broken Arrow Municipal Authority

Chairperson Craig Thurmond

Vice Chair Scott Eudey

Trustee Johnnie Parks

Trustee Debra Wimpee

Trustee Christi Gillespie

Tuesday, October 1, 2019

**Council Chambers
220 South 1st Street
Broken Arrow, OK**

TIME: Immediately following the City Council Meeting which begins at 6:30 p.m.

1. Call to Order

2. Roll Call

3. Consideration of Consent Agenda

- A. [19-43](#) Approval of the Broken Arrow Municipal Authority Meeting Minutes of September 17, 2019
- B. [19-1213](#) Acknowledgement of submittal of the Broken Arrow Municipal Authority's Wastewater Discharge Monitoring Report for the month of July 2019
- C. [19-1036](#) Approval of and authorization to execute a Professional Consultant Agreement with Tetra Tech, Inc. for Old Adams Creek Lift Station Rehabilitation
- D. [19-1192](#) Approval of and authorization to purchase one (1) 1-ton cargo van from Bob Howard Chrysler Jeep Dodge, pursuant to the Oklahoma Statewide Vehicle contract, for the Fleet Maintenance Division
- E. [19-1212](#) Approval of and authorization to purchase one (1) ½ ton crew cab 4WD pickup truck from Vance Chevrolet, pursuant to the Oklahoma Statewide Vehicle Contract, for the Utilities Department
- F. [19-1069](#) Award the most advantageous bid to Dickson Equipment Company for the purchase of three refuse packer bodies for the Sanitation Division of the General Services Department
- G. [19-1068](#) Award the most advantageous bid to Premier Truck Group for the purchase of three refuse truck cab and chassis for the Sanitation Division of the General Services Department

- H. [19-1227](#) Approval of and authorization to execute Change Order #1 with Belt Construction, Inc. for construction contract S.1609; County Line Trunk Sewer - Phase 1
- I. [19-1228](#) Approval of and authorization to execute Change Order #3 with Walters Morgan Construction, Inc. for Construction Contract 175436; Verdigris River Water Treatment Plant Pretreatment Basin Expansion
- J. [18-1463](#) Ratification of the Claims list dated 09/27/2019

4. Consideration of Items Removed from Consent Agenda

5. Public Hearings, Appeals, Presentations, Recognitions, Awards - NONE

6. General Authority Business - NONE

7. Remarks and Updates by City Manager and Staff

8. Executive Session - NONE

9. Adjournment

NOTICE:

If you wish to speak at this evening's meeting, please fill out a "Request to Speak" form. The forms are available from the City Clerk's table or at the entrance door. Please turn in your form prior to the start of the meeting. Topics are limited to items on the currently posted agenda, or relevant business.

All cell phones and pagers must be turned OFF or operated SILENTLY during meetings.

Exhibits, petitions, pictures, etc., shall be received and deposited in case files to be kept at the Broken Arrow City Hall. If you are a person with a disability and need some accommodation in order to participate in this meeting, please contact the City Clerk at 918-259-2400 Ext. 5418 to make arrangements.

POSTED this ____ day of _____, _____, at _____
a.m./p.m.

City Clerk



City of Broken Arrow

Request for Action

File #: 19-43, Version: 1

**Broken Arrow Municipal Authority
Meeting of: 10-01-2019**

Title:

Approval of the Broken Arrow Municipal Authority Meeting Minutes of September 17, 2019

Background:

Minutes recorded for the Broken Arrow Municipal Authority Meeting.

Cost: \$0

Funding Source: City Clerk Operational Fund

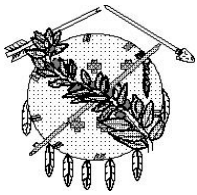
Requested By: Russell Gale, Assistant City Manager of Administration

Approved By: City Manager's Office

Attachments: 09-17-2019 BAMA Minutes

Recommendation:

Approve the minutes of September 17, 2019 for the Broken Arrow Municipal Authority meeting.



City of Broken Arrow
Minutes
Broken Arrow Municipal Authority

City Hall
220 S 1st Street
Broken Arrow OK
74012

Chairperson Craig Thurmond
Vice Chair Scott Eudey
Trustee Johnnie Parks
Trustee Debra Wimpee
Trustee Christi Gillespie

Tuesday, September 17, 2019

Council Chambers

1. Call to Order

Chairperson Craig Thurmond called the meeting to order at approximately 7:04 p.m.

2. Roll Call

Present: 5 - Christi Gillespie, Debra Wimpee, Johnnie Parks, Scott Eudey, Craig Thurmond

3. Consideration of Consent Agenda

- A. 19-42 Approval of the Broken Arrow Municipal Authority Meeting Minutes of September 3, 2019**
- B. 19-1121 Acknowledgement of submittal of the Broken Arrow Municipal Authority's Water Supply Report for the month of July 2019**
- C. 19-1189 Acknowledgement of receipt of Oklahoma Department of Environmental Quality (ODEQ) Permit No. WL000072190656 for the relocation of the Garnett Water Line**
- D. 19-1093 Approval of and authorization to execute an Amendment to the Professional Consultant Agreement with Tetra Tech, Inc. for Lynn Lane Secondary Clarifier Rehabilitation (Project No. 165422)**
- E. 19-1037 Approval of and authorization to execute a Professional Consultant Agreement with Holloway, Updike, and Bellen, Inc. (HUB) for Adams Creek Northwest Lift Station Improvements**
- F. 18-1460 Ratification of the Claims list dated 09/13/2019**

Chairperson Thurmond asked if there were any items to be removed from the Consent Agenda. There were none.

MOTION: A motion was made by Scott Eudey, seconded by Debra Wimpee.

Move to approve the Consent Agenda

The motion carried by the following vote:

Aye: 5 - Christi Gillespie, Debra Wimpee, Johnnie Parks, Scott Eudey, Craig Thurmond

4. Consideration of Items Removed from Consent Agenda

There were no Items removed from the Consent Agenda. No action was required or taken.

5. Public Hearings, Appeals, Presentations, Recognitions, Awards

- A. 19-1188 Presentation, discussion, and possible acceptance of the Broken Arrow Pilot Project Report and recommendation of the Citizen Recycle Committee Report**

Ms. Kate Vasquez, GBB Solid Waste Consultant, reported she had been working with Broken Arrow for the past several years on the Recycling Project. She noted there was a lot of information to review, but she wished to ensure there was clear understanding. She reviewed a slide which illustrated how the project progressed from 2016 until today, beginning with a

scientific resident telephone survey, appointment of the Citizen's Recycling Committee, pilot program development, pilot program conduction and results review. She briefly discussed the scientific survey results which indicated residents enjoyed the current sanitary service, but were open to change and were interested in recycling. She noted there were mixed feelings regarding cart usage.

Ms. Kate Vasquez with GBB Solid Waste Consultant reviewed the actions of the Recycling Committee which met nine times, went on field trips, learned the material and discussed the subject thoughtfully and intensively. She reported the Recycling Committee recommended the pilot program, once a week trash pickup, and discontinuation of bag distribution.

She reported the next step was Pilot Program planning: Staff thoughtfully chose the two pilot areas, C2Logix planned the recycling routes, carts were purchased, trucks were retrofitted to lift the carts, a professional outreach campaign was developed, audits were organized with Tulsa Refuse and Transfer, and a resident participant survey was developed to collect meaningful data throughout the Pilot Program. She displayed maps of the pilot program areas. She displayed and discussed the outreach materials which were used.

Ms. Vasquez reviewed the pilot program results. She reported pilot participation rate was almost 100% (percentage of residents who accepted carts) and set out rate was approximately 50% (percentage of residents who set out the cart on any given day). She reviewed the recycling rate and noted the recycling rate was 20% which was good. She reviewed and discussed the recycling "pounds per set out" graph. She stated two Tulsa Refuse and Transfer Audits were done, one in March 2019 and one in May 2019. She reviewed and discussed the Audit Results which noted contamination in the Thursday two-cart system tripled over time, while the one-cart had only a small increase in contamination. She displayed and discussed photos of contamination and noted these were educational; the information could be used to determine the type of education materials which needed to be distributed. She explained contamination would improve with public education. She displayed and discussed some photos of the pilot program in action.

Ms. Vasquez reported Shapard Research conducted three surveys of the pilot participants. She noted approximately two thirds of the survey participants responded by telephone and one third responded by email. She noted overall participants were positive about the pilot experience: 86.5% reported recycling something every week, 39.7% reported setting out carts weekly, 38.3% reported a wish for a smaller cart, 51% reported they did not want a smaller cart, 68.1% reported less trash production due to recycling, 70% reported never having gone to the Met to recycle, 88.7% reported a belief that recycling was important for the community, and 86.5% reported satisfaction with the pilot recycling service. She reviewed the survey results regarding the amount of trash and recycling which participants set out; most participants felt the single recycling cart was of sufficient capacity. She reported in the two-cart pilot 63% indicated a preference for carts over bags and 33% indicated a bag preference, while 8% had difficulty physically handling the cart. She reported in the one-cart pilot 76.6% were in favor of the recycling cart, 14.8% were not in favor of the cart, and 6% had difficulty handling the cart. She noted when the one-cart participants were asked if they would like to have a second cart for trash 43% responded yes and 54% responded no. She reported 62.4% of participants used the provided tote for collecting recyclables and 58.2% were aware of the recycleba.org website. She reported younger residents participated at slightly higher rates and newer residents had the strongest preference for carts over bags; there was no difference in income band or household size participation rates.

Ms. Vasquez reported recycling processing costs had changed in the past three years. She discussed the changes which affected these cost changes. She reported currently there was a market for glass recycling and residents wished to recycle glass; therefore, GBB recommended

including glass in the curbside program. She reviewed and discussed several questions the Recycling Committee asked, including questions about opting out, the Met, and once a week pickup. She reported if a resident did not wish to have a recycling cart, most municipalities would remove the recycling carts, but there was never a rate adjustment associated with a voluntary opt-out. She reported Mr. Brannin (of the Met) indicated a curbside recycling program would not hurt the Met in any way. She noted most municipalities practiced once a week pickup.

She reported currently there were approximately nine residents in Broken Arrow who required accommodation for trash pickup. She stated she believed the number of residents who would require accommodation with the carts would be higher; however, this number would remain in the single digit percentage. She noted there were many different options for accommodation; the City would need to review and discuss the possible options. She reported there were smaller cart options; however, the truck lift could not accommodate a cart smaller than 64 gallons. She reviewed and discussed the accommodation options including front door/garage door service and side door/back door service. She noted the front door/garage door service was the easiest for workers as workers would not have to walk around behind a home to see if the cart was set out for pickup.

Mr. Russell Peterson, Chairperson of the Citizen's Recycling Committee, reviewed some of the topics which were discussed by the Committee including worker's compensation issues, City sanitation employment difficulties, leasing versus purchasing carts, recycling opt-out, etc. He reported the Citizen's Recycling Committee recommended: 1) Convert the entire City to once a week collection via rerouting. 2) Issue all customers a 96 gallon blue recycling cart with the option to opt-out. 3) Continue collection of garbage and yard waste in bags with a reduction in bag vouchers by 50%. 4) Continue to replenish truck fleet with automated trucks for collecting recyclables. 5) Within three years implement trash carts and eliminate the bag program. He noted the Recycling Committee believed this was the best method of implementing a City wide Recycling program.

Trustee Wimpee asked about the bag voucher statistics. Mr. Lee Zirk responded at any given time about 60% of vouchers were redeemed; this percentage has remained consistent over the years. He noted bags were ordered according to the expected redemption rate.

Vice Chair Eudey asked if there was resident frustration regarding inability to redeem bag vouchers at stores. He stated he understood fewer stores were stocking the bags. Mr. Zirk responded there was some frustration; however, the percentage of residents who redeemed the vouchers was still 60%. He noted it was a challenge to ensure the stores stocked enough of the product for residents. He discussed some of the efforts being made in this regard. City Manager Spurgeon asked about the cost of the bags. Mr. Zirk responded he was unsure; he believed the bags were approximately \$3 dollars per roll. Assistant City Manager Russell Gale reported this year \$620,000 dollars had been budgeted for the bag voucher program. Lee Zirk noted bag cost had risen.

Trustee Parks asked if there was difficulty with subpar bags being used for trash set out. Mr. Zirk responded in the affirmative; it was difficult when a poor quality bag was used and broke during pickup.

Trustee Wimpee asked how yard waste would be addressed with the two cart system. Mr. Zirk stated residents would be instructed yard waste could be placed inside the trash cart; if there was no room inside the cart, the yard waste could be set beside the cart.

Ms. Kate Vasquez reported C2Logix developed a collection route program for the entire City of Broken Arrow including the estimated cost to run the routes. She reviewed the assumptions

used to create this collection route program: once weekly pickup, 96 gallon carts, “single side” or “dual pass” collection, transition to automated side-loading trucks, and a comprehensive outreach program. She explained the “single side” or “dual pass” collection method allowed a truck to drive up one side of the street and then back down the other for cart pickup, enabled one worker to ride on the back of the truck rather than two, and was generally much safer for workers. She noted once trucks were fully automated only a driver would be needed for cart pickup. She reviewed the results of the Resource Estimator. She reported Broken Arrow would need a fleet of approximately 18 trucks plus spare trucks. She reviewed the potential costs and savings of the new sanitation program. She stated there were estimated savings in labor force; temporary labor would not be needed. She indicated the savings would not be generated by firing employees; the City was currently short staffed and generally any reduction in staff would be accomplished over time through attrition. She reported there would be an increase in processing costs. She reported there would be significant savings in the bag voucher cost. She reported there would be a cost to amortize the carts. She reported rerouting and single side pickup would provide a cost savings as well.

Ms. Vasquez noted several decisions needed to be made: would recycling cart use be initiated immediately; would a one-cart or two-cart system be initiated; and if a two-cart system was chosen would the trash carts be transitioned in or implemented immediately. She noted GBB did not recommend implementation of once a week pickup without implementation of some sort of cart. She noted there were residents in the one-cart pilot program which complained about storing garbage bags in the garage for a week prior to pickup who requested a cart for trash storage.

Ms. Vasquez noted GBB’s original recommendation was to start with a one cart system and then in the future add the garbage cart. She explained this was due to data support and due to this being the recycling system which could be most quickly implemented with the least amount of startup cost. She stated the biggest operational challenge was storage of trash bags during the week; residents might self-purchase carts for garbage storage and non-standard containers would affect collection operations and optimization. She noted this recommendation would require continued bag vouchers and the cost associated, there was increased risk of vectors, and if residents used non-standard containers then collection time would slow.

She reported after discussion with the Recycling Committee the GBB conclusions were: 1) There remained strong interest in Recycling. 2) Most of the problems with the two-cart system could be addressed with a more responsive and intensive education program than was provided during the pilot program. 3) Despite differences in startup costs, the operational costs of a two-cart system and a one-cart system were virtually identical. 4) With the efficiencies gained from rerouting, from once weekly collection and from reduced bag purchase costs, per unit sanitation costs should remain stable even with the addition of a new recycling service (this was true for both a one-cart or two-cart system). 5) The recommendation from the Citizen’s Recycling Committee was sound from an operational standpoint and could be accomplished in a three year timeframe.

Trustee Parks commended Ms. Vasquez and the GBB for being knowledgeable and accommodating. He noted this particular committee had been a very long commitment. He stated City Manager Spurgeon had indicated the Broken Arrow Sanitation System was not sustainable. He explained Broken Arrow had problems with workers compensation claims and experienced difficulties hiring new employees; workers did not wish to pick up trash bags all day long. He stated changes were necessary to make the Broken Arrow Sanitation System sustainable once again. He stated the recommendation of the Committee to the Authority was unanimously agreed upon by the Committee.

Vice Chair Eudey stated as the Committee Alternate he did not vote. He commended Ms. Vasquez and GBB, and thanked the Committee participants. He stated he served as the City's Trustee on the Met and did not wish the Met to suffer as a result of curbside recycling. He reported the Broken Arrow Met facility was routinely the busiest and most productive facility in the entire Met system. He stated the City would continue to support the Met after institution of curbside recycling; the Met was highly valuable and recycled materials not supported by the curbside recycling system. He noted he felt a few public meetings to hear resident feedback about the program would be beneficial. He stated he received equal amounts of emails from residents who wished for no change at all and residents who wished for drastic change to a two cart system.

Trustee Parks noted the recycling program was completely voluntary; residents would not be forced to recycle. He noted if residents consistently put contaminated materials into recycling carts, the carts could be removed from the residence.

Trustee Gillespie agreed with both Trustee Parks and Vice Chair Eudey. She stated change was inevitable. She reported most communities only had once weekly pickup; twice weekly pickup was very rare. She stated while it was nice to put trash on the curb and have it gone when you came home from work, if it was not a sustainable program then changes needed to be made.

Vice Chair Eudey stated he believed the sanitation system was unsustainable due to the difficulty of hiring and keeping employees, as well as increased workers compensation claims. He stated knowing the City was having difficulty keeping employees, and was continuously required to hire temporary workers who did not have the same rigorous background checks as City employees, and who would quit mid-route, he was afraid there was no way to sustain the current sanitation system. He stated it was important to have a plan in place to bring the sanitation system into sustainability and it was important to consider all options.

Trustee Wimpee stated when change was necessary it was important for the Community to be educated regarding the reasons for the necessary change.

City Manager Spurgeon reported the three core services Broken Arrow provided the Citizens were trash, water and streets. He stated the governing body, Broken Arrow Municipal Authority, should be deliberate in its decision making. He recommended BAMA accept the report and hold a City Council Workshop for reviewing the GBB Report in more detail and to hold public discussion. He reported currently sanitation workers oftentimes were forced to work until 8 p.m. or later, in 90 degree weather, picking up trash, due to a lack of sanitation workers. He stated he felt this was unacceptable and Broken Arrow residents needed to understand the challenges associated with the current sanitation system. He stated he hoped to communicate these challenges to the residents.

Trustee Parks asked Staff to create a summarized fact sheet which could be provided to the Citizens. Trustee Gillespie suggested holding the Workshop Meeting as soon as possible.

Chairperson Thurmond noted there were two individuals who signed up in opposition of this Item who did not wish to speak.

Citizen Valerie Coble stated her address was 2005 W. Decatur Street, Broken Arrow. She stated she participated in the one-cart pilot program and had been assigned Friday pickup. She noted she discovered most trash was created on the weekend and as such she was forced to store trash for six days in the garage. She noted storing the trash in the garage for this length of time attracted rodents. She stated even if she were given a trash cart her grass clippings would not fit inside a trash cart and would continue to require garage storage. She stated she

worried residents who did not have large garages would be required to store grass clippings outside of the home which would be unattractive. She noted being forced to once a week pickup and being limited to 10 bags per pickup was unfair given residents with twice weekly pickup were permitted 20 bags per week (10 bags per pickup). She stated if pickup was permanently switched to once weekly the bag limit should be increased to accommodate lawn clippings. She asked about overflow pickup if a cart system was used, especially for bundled branches, Christmas trees, grass clippings, etc. She stated if the City refused to pick up these types of items residents would begin dumping trash in ditches. She stated she felt sanitation rates should be cut in half if pickup was only done half the time. She stated she worried the sanitation rates would go up to accommodate recycling implementation. She recommended the City stop the bag voucher program to save funds. She recommended dedicating trash pickup to Monday, Tuesday or Wednesday with a separate pickup day for recycling at the end of the week.

Trustee Parks stated Ms. Coble had valid points which Staff would consider. He stated there would be issues with once a week pickup, but 80% of the nation had once a week pickup and Broken Arrow would learn to deal with the issues. He stated it may come down to little things such as storing smelly trash in smaller plastic well sealed pouches to reduce the odor.

Vice Chair Eudey stated there would be changes to green waste collection which needed to be considered and discussed. He noted Ms. Coble made valid points and he hoped Ms. Coble would be pleased to hear that her points had been discussed by the Committee and would be addressed. He thanked Ms. Coble for her participation.

Citizen Dawn Seing stated her address was 219 W. Dallas, Broken Arrow. She reported she was a Member of the Citizen's Recycling Committee. She stated GBB did an excellent job reviewing what was discussed during the Committee Meetings. She stated it was important to move forward with curbside recycling and many residents were in full support. She noted there was a small minority who would never approve of any changes. She thanked Ms. Coble for her contribution to the discussion. She indicated extensive discussion had been held regarding green waste. She explained it was not included in the GBB report as the Committee tried to stay focused on whether or not Broken Arrow could feasibly implement a curbside recycling program. She stated the Committee discussed trash pickup extensively. She noted the Committee understood the importance of green waste pickup and there were several excellent options in this regard.

Vice Chair Eudey explained acceptance of the GBB report today simply acknowledged the fact that BAMA had received the report and would further examine and discuss said report. He stated there would be extensive discussion regarding this subject prior to any decision making regarding any program implementation.

MOTION: A motion was made by Johnnie Parks, seconded by Christi Gillespie.

Move to accept the Broken Arrow Pilot Project Report and recommendation of the Citizen Recycle Committee Report and direct Staff to designate a future public meeting

The motion carried by the following vote:

Aye: 5 - Christi Gillespie, Debra Wimpee, Johnnie Parks, Scott Eudey, Craig Thurmond

City Manager Spurgeon asked the BAMA Members to consider the week of October 9, 2019 for the Workshop Meeting.

6. General Authority Business

There was no General Authority Business.

7. Remarks and Updates by City Manager and Staff

City Manager Michael Spurgeon recognized Michael Gordon as the new PSO of External Affairs.

8. Executive Session

There was no Executive Session.

9. Adjournment

The meeting adjourned at approximately 8:20 p.m.

MOTION: A motion was made by Johnnie Parks, seconded by Debra Wimpee.

Move to adjourn

The motion carried by the following vote:

Aye: 5 - Christi Gillespie, Debra Wimpee, Johnnie Parks, Scott Eudey, Craig Thurmond

Chairman

Secretary



City of Broken Arrow

Request for Action

File #: 19-1213, **Version:** 1

Broken Arrow Municipal Authority
Meeting of: 10-01-2019

Title:

Acknowledgement of submittal of the Broken Arrow Municipal Authority's Wastewater Discharge Monitoring Report for the month of July 2019

Background:

In an effort to provide the Authority and the Public more information with respect to our community's wastewater collection and treatment at the City's Lynn Lane Wastewater Treatment Plant, the Utilities Department staff is attaching a copy of the July 2019 Oklahoma Department of Environmental Quality (ODEQ) Discharge Monitoring Report (DMR) submitted to ODEQ on August 15, 2019.

Over the course of the month of July 2019, the total wastewater collected, treated and discharged is 149.525 million gallons (MG). The average flow was 2.974 MG.

This report will be updated on a monthly basis. Staff recommends the Authority acknowledge submittal of the Report.

Cost: None

Funding Source: None

Requested By: Charles Vokes, Utilities Director

Approved By: City Manager's Office

Attachments: July Discharge Monitoring Report
July Monthly Operational Report

Recommendation:

Acknowledge submittal of the July 2019 Monthly Discharge Monitoring Report

**National Pollutant Discharge Elimination System (NPDES)
Oklahoma Department of Environmental Quality Discharge Monitoring Report (DMR)**

PERMITTEE NAME: Broken Arrow, City of
MAILING ADDRESS: NESESES11T17NR14EIM
Broken Arrow, OK 74013
FACILITY: Broken Arrow WWT
LOCATION: NESESES11T17NR14EIM
Broken Arrow, OK 74013

PERMIT NUMBER: OK0040053

MONITORING POINT: 001A

COUNTY:

Tulsa

Monitoring Period: 2019-07-01 To: 2019-07-31

NO DISCHARGE FROM SITE: ()

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum		Minimum	Average	Maximum				
BOD, 5-DAY (20 DEG. C)	Sample Measurement	119.99	*****	26 lbs/day	*****	4.78	5.20	19 mg/l	0	Five Per Week	COMP12
PARAM CODE: 00310 Stage Code: 1 Effluent Gross	Permit Requirement	2001.6 Monthly Average	*****		*****	30 Monthly Average	45 Weekly Average			Five Per Week	COMP12
PH	Sample Measurement	*****	*****		7.3	*****	7.5	12 S.U.	0	Daily	GRAB
PARAM CODE: 00400 Stage Code: 1 Effluent Gross	Permit Requirement	*****	*****		6.5 Minimum	*****	9.0 Maximum			Daily	GRAB
SOLIDS, TOTAL SUSPENDED	Sample Measurement	54.15	*****	26 lbs/day	*****	2.17	2.40	19 mg/l	0	Five Per Week	COMP12
PARAM CODE: 00530 Stage Code: 1 Effluent Gross	Permit Requirement	2001.6 Monthly Average	*****		*****	30 Monthly Average	45 Weekly Average			Five Per Week	COMP12
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	Sample Measurement	2.974	3.956	03 MGD	*****	*****	*****		0	Daily	TOTALZ
PARAM CODE: 50050 Stage Code: 1 Effluent Gross	Permit Requirement	Report Monthly Average	Report Maximum Daily		*****	*****	*****			Daily	TOTALZ
CHLORINE, TOTAL RESIDUAL	Sample Measurement	*****	*****		*****	*****	.33	19 mg/l	1	Daily	GRAB
PARAM CODE: 50060 Stage Code: A Disinfection, Process Complete	Permit Requirement	*****	*****		*****	*****	0.099 Instantaneous Maximum			Daily	GRAB
E.COLI	Sample Measurement	*****	*****		*****	1.1	2	30 MPN/100mL	0	Twice Every Week	GRAB
PARAM CODE: 51040 Stage Code: 1 Effluent Gross	Permit Requirement	*****	*****		*****	126 Geometric Mean	406 Maximum Daily			Twice Every Week	GRAB
SOLIDS, TOTAL DISSOLVED-180 DEG.C	Sample Measurement	12374	*****	26 lbs/day	*****	450	450	19 mg/l	0	Monthly	COMP12
PARAM CODE: 70300 Stage Code: 1 Effluent Gross	Permit Requirement	77929 Monthly Average	*****		*****	1168 Monthly Average	1168 Maximum Daily			Monthly	COMP12

Name/Title of Principal Executive Officer Or Authorized Agent Asst Manage	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	Signature of Principal Executive Officer Or Authorized Agent	Telephone No
		Shannon McKee	918-455-4762

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

**National Pollutant Discharge Elimination System (NPDES)
Oklahoma Department of Environmental Quality Discharge Monitoring Report (DMR)**

PERMITTEE NAME: Broken Arrow, City of
MAILING: NESESES11T17NR14EIM
ADDRESS: Broken Arrow, OK 74013
FACILITY: Broken Arrow WWT
LOCATION: NESESES11T17NR14EIM
Broken Arrow, OK 74013

PERMIT NUMBER: *OK0040053*

MONITORING POINT: 001A

COUNTY:

Tulsa

Monitoring Period: 2019-07-01 To: 2019-07-31

NO DISCHARGE FROM SITE: ()

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum		Minimum	Average	Maximum				
MERCURY, TOTAL (AS HG)	Sample Measurement	.0014	*****	26 lbs/day	*****	< 0.05	< 0.05	28 ug/l	0	Monthly	COMP12
PARAM CODE: 71900 Stage Code: 1 Effluent Gross	Permit Requirement	0.0635 Monthly Average	*****		*****	0.952 Monthly Average	1.9 Maximum Daily			Monthly	COMP12
Name/Title of Principal Executive Officer Or Authorized Agent		I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION. THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.					Signature of Principal Executive Officer Or Authorized Agent		Telephone No		
Asst Manage							Shannon McKee		918-455-4762		

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL REPORT COMMENT:

On 7-16-19 the high chlorine residual was due to an issue with our new headworks. It wasn't pumping and we received no callout. This allowed the more concentration in the CL2 contact basin than the sodium bisulfite could remove. When the headworks came back online and the plant began to flow again the operator collected and run a Cl2 test which was high (.33 mg/l) at 0734. a second test was ran at 0942 and the residual was 0.01 sample and 0.03 duplicate.

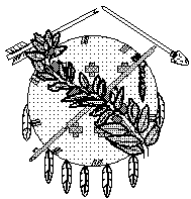


MONTHLY OPERATIONAL REPORT
City of Broken Arrow Lynn Lane Wastewater Treatment Facility
July-19

		WEATHER			INFLUENT								OXIDATION DITCH					SLUDGE				FINAL EFFLUENT												STREAM SURVEILLANCE														
Date	Day	°F	Rain	Cloud Conditions	Flow (MGD)	RAS (MGD)	°C	pH	Alk.	Sett. Solids	TSS (mg/L)	BOD (mg/L)	D.O. (mg/L)	30 Min. Settlt.	SVI (ml/gm)	MLSS (mg/L)	Sl. Age (Days)	WAS (MGD)	CAKE (%)	LANDFILL (Tons)	LANDFILL (D.M. Tons)	°C	D.O. (mg/L)	TDS (mg/L)	TDS (lbs)	pH	Alk.	TSS (mg/L)	TSS (lbs)	BOD (mg/L)	BOD (lbs)	Hg	Hg (lbs.)	E.Coli	Cl2 Res	Flow (MGD)	°C Upstr.	°C Dnstr.	D.O. Upstr.	D.O. Dnstr.	pH Upstr.	pH Dnstr.	App. Upstr.	App. Dnstr.	Fec. Coll. Upstr.	Fec. Coll. Dnstr.	Hrds.	
1	Mon	91	0.03	clear	5.169	2.840	22	7.4	323	65	214	193	0.2	140	28	5,015	18	0.198	26	44.44	11.21	23	7.1			7.5	172	2.00	52.84	4.00	105.68			1.0	0.05	3.168												
2	Tue			cloudy	5.016	3.224	22	7.4	263	16	248	221	0.2	150	37	4,008	13	0.214	28	22.49	6.11	23	7.1			7.5	188	2.00	48.84	6.00	146.52			2.0	0.05	2.928												
3	Wed			clear	5.190	3.260	22	7.4	214	12	320	213	0.2	150	40	3,780	9	0.208	20	40.28	7.82	22	7.1			7.4	177	3.00	72.83	5.00	121.39				0.05	2.911												
4	Thur			p. cloudy	5.335	3.131	23	7.3	275	16	358	226	0.1	160				0.189	20	18.59	3.61	23	6.9			7.4	165	2.00	55.54	5.00	138.86				0.05	3.330												
5	Fri			clear	5.043	3.185	22	7.4	320	19	474	261	0.1	180				0.202	20	64.39	12.49	24	6.9			7.4	171							0.05	3.185													
6	Sat	92	0.02	cloudy	4.837	2.982	22	7.3	309	18			0.1	200				0.199	20	44.78	8.69	24	7.1			7.4	175							0.05	3.041													
7	Sun			cloudy	5.257	2.883	22	7.2	245	17			0.2	200				0.197				23	6.9	450	12,374	7.3	160	2.00	54.99	4.00	109.99	0.00005	0.0014		0.05	3.297												
8	Mon			cloudy	5.280	2.755	23	7.5	327	15	306	193	0.2	160	23	7,105	18	0.215	17	18.43	3.04	24	6.9			7.4	160	2.00	55.48	4.00	110.96			1.0	0.05	3.326												
9	Tue			clear	5.152	3.282	23	7.4	330	17	290	221	0.2	190	40	4,795	13	0.208	17	24.88	4.10	22	7.1			7.4	170	2.00	53.39	4.00	106.79			1.0	0.05	3.201												
10	Wed	95	0.16	p. cloudy	4.932	3.159	23	7.3	266	18	272	233	0.3	190	34	5,585	17	0.183	25	42.64	10.34	24	6.7			7.4	160	2.00	51.81	4.00	103.62				0.05	3.106												
11	Thur			clear	4.890	3.089	23	7.5	335	8	142	140	0.3	190	56	3,377	19	0.197	24	42.59	9.92	24	7.1			7.4	178	2.00	65.99	6.00	197.96				0.05	3.956												
12	Fri			clear	4.788	3.210	22	7.3	270	5	94	176	0.2	200	45	4,488	40	0.197	24	37.49	8.73	23	7.0			7.5	191							0.05	2.968													
13	Sat			clear	4.654	3.210	22	7.3	268	6			0.2	220				0.196				24	7.0			7.5	184							0.05	2.928													
14	Sun			clear	4.611	3.108	22	7.3	265	15			0.1	250				0.206				24	7.0			7.4	155	2.00	48.12	5.00	120.30				0.05	2.885												
15	Mon			cloudy	4.609	2.992	23	7.3	267	3	92	154	0.2	160	28	5,779	55	0.473	21	22.17	4.52	23	7.0			7.5	165	2.00	48.16	4.00	96.31			1.0	0.05	2.887												
16	Tue	96	0.01	clear	4.361	2.879	23	7.1	225	1.5	166	138	0.2	210	72	2,910	16	0.203	21	42.00	8.56	23	6.9			7.5	183	2.00	43.94	3.00	65.90			1.0	0.33	2.634												
17	Wed			clear	4.945	2.534	23	7.5	354	1	64	154	0.2	200	63	3,175	40	0.197	22	43.28	9.24	23	6.9			7.5	190	2.00	51.74	5.00	129.35				0.05	3.102												
18	Thur			clear	4.749	2.520	24	7.6	358	7	110	186	0.3	220	75	2,930	22	0.190	21	41.24	8.40	24	6.8			7.5	194	2.00	49.01	6.00	147.02				0.05	2.938												
19	Fri			clear	4.767	2.547	24	7.5	355	5.5	118	192	0.5	230	77	3,005	21	0.188	23	39.16	8.74	24	6.9			7.5	196							0.05	2.893													
20	Sat			clear	4.690	3.244	23	7.3	272	4			0.2	240				0.208	23	20.23	4.51	24	6.7			7.4	194							0.05	2.412													
21	Sun			p. cloudy	4.690	3.004	23	7.3	266	6			0.1	260				0.206				24	6.8			7.4	178	3.00	63.93	6.00	127.85				0.05	2.555												
22	Mon			cloudy	4.811	2.932	23	7.4	254	5	168	150	0.2	250	92	2,715	13	0.191	25	40.69	9.87	23	6.9			7.4	169	2.00	48.56	5.00	121.39			1.0	0.05	2.911												
23	Tue			clear	4.885	2.940	23	6.6	382	250	2336	134	0.2	300	78	3,850	1	0.224	21	40.55	8.26	23	7.0			7.5	186	2.00	50.72	5.00	126.81			2.0	0.05	3.041												
24	Wed			clear	4.367	2.748	24	7.5	344	11	216	194	0.4	320	132	2,430	10	0.200	16	137.80	21.39	24	6.8			7.4	184	2.00	45.60	5.00	114.01				0.05	2.734	PARTIAL WEEKLY AVG.NO.'s											
25	Thur			clear	4.714	2.713	24	7.5	348	5	138	235	0.4	280	102	2,755	17	0.190	21	62.74	12.78	23	6.7			7.4	191	3.00	71.48	5.00	119.14				0.05	2.857	Date	Week No.	TSS	BOD								
26	Fri	88	0.00	clear	5.980	2.625	24	7.5	313	18	212	240	0.2	270	109	2,470	8	0.204	18	15.29	2.67	24	6.8			7.5	200							0.05	2.732	6/30	1	2.00	4.00									
27	sat			clear	3.851	2.624	2	7.4	285	16			0.2	280				0.197				24	6.9			7.4	198							0.05	2.962	8/1	5	2.00	4.00									
28	Sun	94	0.00	clear	4.228	2.491	23	7.3	278	14			0.2	270				0.200				25	6.8			7.4	176	2.00	44.17	4.00	88.34				0.05	2.648												
29	Mon	91	0.35	cloudy	4.389	2.579	24	7.3	263	7	122	187	0.1	280	129	2,175	16	0.210	19			24	6.7			7.5	167	2.00	46.80	4.00	93.61			1.0	0.05	2.806												
30	Tue	93	0.01	clear	4.821	3.498	24	7.5	286	2	120	137	0.1	250	125	2,005	14	0.201	19	21.33	3.93	24	6.9			7.5	182	2.00	50.26	5.00	125.64			1.0	0.05	3.013												

REMARKS : High effluent CL2 due to plant/head works coming back online
Weather station didn't provide any data

Electrical Costs :	18,328.78
Labor Costs :	46,566.87
Chemicals, Lab Supplies & Services :	14,768.84
Repairs, Maint., Services & Admin. :	15,122.84
Sludge (Generation & Transportation) :	27,084.49
TOTAL COSTS :	121,871.82
COST / TRTD. 1000 GAL :	1.32



City of Broken Arrow

Request for Action

File #: 19-1036, **Version:** 1

Broken Arrow Municipal Authority
Meeting of: 10-01-2019

Title:

Approval of and authorization to execute a Professional Consultant Agreement with Tetra Tech, Inc. for Old Adams Creek Lift Station Rehabilitation

Background:

The Old Adams Creek Lift Station was built in 2005 and receives sewage flows from seven other lift stations in the collection system. This lift station has experienced overflows at the station as well as upstream sewage bypasses. During the flooding that occurred in May and June of 2019, this lift station and the manholes upstream of it overflowed into Adams Creek. This unpermitted discharge led to a Notice of Violation (NOV) from the Oklahoma Department of Environmental Quality (ODEQ). This NOV will likely be followed by a Consent Order, which is currently being negotiated with the ODEQ. It is anticipated that the Consent Order will require work on the upstream collection system as a minimum.

The Engineering and Construction Department negotiated a Professional Consultant Agreement with Tetra Tech, Inc. to conduct a hydraulic evaluation, capacity evaluation, functional evaluation, and perform flow monitoring assessments for the Old Adams Creek Lift Station Rehabilitation project. The negotiated amount of the contract is \$179,000.

Cost: \$179,000.00

Funding Source: OWRB Loan Oklahoma Water Resources Board Loan No. FAP-17-0004-L

Requested By: Kenneth D. Schwab, P.E., CFM, Assistant City Manager - Operations

Approved By: City Manager's Office

Attachments: Professional Consultant Agreement

Recommendation:

Approve and authorize execution of a Professional Consultant Agreement with Tetra Tech, Inc. for Old Adams Creek Lift Station Rehabilitation

**AGREEMENT SUMMARY
BROKEN ARROW MUNICIPAL AUTHORITY
OLD ADAMS CREEK LIFT STATION REHABILITATION
PROFESSIONAL CONSULTANT AGREEMENT**

1.0 Professional Consulting Firm:

- 1.1 Name: Tetra Tech, Inc.
- 1.2 Telephone No.: (918) 249-3909
- 1.3 Address: 7645 East 63rd Street, Suite 301 Tulsa, OK 74133

2.0 Project Name/Location: Old Adams Creek Lift Station Rehabilitation. 1800 N. 65th Street, Broken Arrow, OK.

3.0 Statement of Purpose: **Phase 1 – Study** will consist of a review and evaluation of flow projections; evaluation of the existing Old Adams Creek lift station hydraulic capacity, and functional aspects of the Old Adams Creek lift station; evaluation of alternatives for both short- and long-term improvements, and a report.

4.0 Agreement Summary:

- 4.1 Agreement Amount: Phase 1
Alternative Evaluation Study: \$125,000.00
Flow Monitoring: \$54,000.00
Total: **\$179,000.00**
- 4.2 Agreement Time: 275 calendar days from NTP
- 4.3 Estimated Construction Cost: NA – Study Only

5.0 Contract Documents and Priority: The Broken Arrow Municipal Authority (OWNER), represented by the City Manager, and the Professional Consulting firm, (CONSULTANT), identified in paragraph 1.0 agree to perform this AGREEMENT in strict accordance with the clauses, provisions, and the documents identified as below, all of which are made part of this Contract. In the event of conflict, these documents shall be interpreted in the following order:

- 5.1 AGREEMENT with corresponding Attachments;
5.2 Duly authorized Amendments to the AGREEMENT;
5.3 AGREEMENT Summary;
5.4 Specific project written correspondence mutually recognized; and
5.5 Specific project verbal instructions mutually recognized.

6.0 Agreement Approved by the Owner on: October 1st, 2019

**AGREEMENT
FOR
PROFESSIONAL CONSULTANT SERVICES
BETWEEN
BROKEN ARROW MUNICIPAL AUTHORITY
AND
TETRA TECH, INC.
FOR
OLD ADAMS CREEK LIFT STATION REHABILITATION**

This AGREEMENT, including Attachment A through Attachment E, between the Broken Arrow Municipal Authority (OWNER) and Tetra Tech, Inc., (CONSULTANT);

W I T N E S S E T H:

WHEREAS, OWNER intends to evaluate feasible design alternatives for the rehabilitation of the Old Adams Creek Lift station (PROJECT) for which OWNER has requested that CONSULTANT provide certain professional services as required and,

WHEREAS, CONSULTANT is qualified and capable to provide the professional services required;

NOW, therefore, in consideration of the promises contained in this AGREEMENT, OWNER and CONSULTANT agree as follows:

ARTICLE 1 - EFFECTIVE DATE

The effective date of this AGREEMENT shall be the 1st day of October 2019.

ARTICLE 2 - GOVERNING LAW

This AGREEMENT shall be governed by the laws of the State of Oklahoma and venue for any action concerning this Agreement shall be in the District Court of Tulsa County, Oklahoma.

ARTICLE 3 - SERVICES TO BE PERFORMED BY CONSULTANT

CONSULTANT shall perform the SERVICES described in Attachment A, Scope of Services. If construction phase services are included, the CONSULTANT shall be the OWNER'S agent and representative to observe, record and report with respect to all services that are required or authorized by the construction documents.

ARTICLE 4 – ORGANIZATION OF SUBMITAL DOCUMENTS

CONSULTANT shall prepare the documents as described in Attachment B as part of this Agreement.

ARTICLE 5 - COMPENSATION

OWNER shall pay CONSULTANT in accordance with Attachment C, Compensation.

ARTICLE 6 - OWNER'S RESPONSIBILITIES

OWNER shall be responsible for all matters described in Attachment D, OWNER'S Responsibilities and Special Conditions.

ARTICLE 7 - STANDARD OF CARE

CONSULTANT shall perform the SERVICES undertaken in a manner consistent with the prevailing accepted standard for similar services with respect to projects of comparable function and complexity, and with the applicable state laws, as well as the specific codes, regulations,

design criteria and construction specifications adopted by the owner and other governing policies published and generally considered authoritative by CONSULTANT'S profession that are in effect at the time of performance of these SERVICES. CONSULTANT is obligated to perform professional services in accordance with the foregoing standard with respect to the laws, codes, regulations, design criteria and construction specifications that are applicable pursuant to this AGREEMENT.

ARTICLE 8 - LIABILITY

8.1 General. Having considered the potential liabilities that may exist during the performance of these SERVICES, the benefits of the PROJECT, and CONSULTANT'S fee for the SERVICES; and in consideration of the promises contained in this AGREEMENT, OWNER and CONSULTANT agree to allocate and limit such liabilities in accordance with Article 10.

8.2 Indemnification. CONSULTANT agrees to indemnify, and hold harmless OWNER, and its agents and employees, from and against legal liability for all claims, losses, damages, and expenses to the extent such claims, losses, damages, or expenses are caused by the negligent or intentional acts, errors, or omissions of CONSULTANT, its agents or employees. In the event claims, losses, damages, or expenses are caused by the joint or concurrent negligence of OWNER and CONSULTANT, or their agents or employees, then they shall be borne by each party in proportion to each entity's own negligence.

8.3 Consequential Damages. OWNER shall not be liable to CONSULTANT for any special, indirect, or consequential damages resulting in any way from the performance of the SERVICES such as, but not limited to, loss of use, loss of revenue, or loss of anticipated profits.

8.4 Survival. Upon completion of all SERVICES, obligations, and duties provided for in this AGREEMENT, or if this AGREEMENT is terminated for any reason, the terms and conditions of this Article 8 shall survive.

ARTICLE 9 - INSURANCE

During the performance of the SERVICES under this AGREEMENT, CONSULTANT shall maintain the following insurance:

- (1) General Liability Insurance, with a combined single limit of \$1,000,000 for each occurrence and \$1,000,000 in the aggregate;
- (2) Automobile Liability Insurance, with a combined single limit of not less than \$1,000,000 for each person, not less than \$1,000,000 for each accident and not less than \$1,000,000 for property damage; and
- (3) Professional Liability Insurance, with a limit of \$1,000,000 annual aggregate.

CONSULTANT shall furnish OWNER certificates of insurance, which shall include a provision that such insurance shall not be canceled without at least thirty (30) days written notice to OWNER. All PROJECT sub-consultants shall be required to name OWNER and CONSULTANT as certificate holders on their certificate of insurance for the PROJECT, and shall be required to indemnify OWNER and CONSULTANT to the same extent. CONSULTANT shall be held responsible to submit certificates of insurance for sub-consultants to OWNER prior to the sub-consultant's release to commence work.

ARTICLE 10 - LIMITATIONS OF RESPONSIBILITY

CONSULTANT shall not be responsible for: (1) construction means, methods, techniques, sequences, procedures, or safety precautions and programs in connection with the construction of the PROJECT; or (2) procuring permits, certificates, and licenses required for any construction unless such responsibilities are specifically assigned to CONSULTANT in Attachment A, Scope of Services.

ARTICLE 11 - LIMITATIONS OF RESPONSIBILITIES FOR ACTS OF OTHERS

CONSULTANT shall not at any time supervise, direct, control or have authority over any work performed by any employee, contractor or other agent of OWNER. CONSULTANT shall not be responsible for the acts or omissions of any employee, contractor or other agent associated with the PROJECT except for its own employees, subcontractors and other agents.

ARTICLE 12 - OPINIONS OF COST AND SCHEDULE

Since CONSULTANT has no control over the cost of labor, materials, or equipment furnished by others, or over the resources provided by others to meet PROJECT schedules, CONSULTANT'S opinion of probable costs and of PROJECT schedules shall be made on the basis of experience and qualifications as a professional. CONSULTANT does not guarantee that proposals, bids, or actual PROJECT costs will conform to OWNER'S cost estimates or that actual schedules will conform to OWNER'S projected schedules.

ARTICLE 13 - REUSE OF DOCUMENTS

All documents, including, but not limited to, drawings, specifications, and details, reports, etc. prepared by CONSULTANT pursuant to this AGREEMENT are instruments of service in respect to the PROJECT. They are not intended or represented to be suitable for reuse by CONSULTANT or others on extensions of the PROJECT or on any other project. Any reuse or adaptation without prior written verification by the OWNER for the specific purpose intended will be at CONSULTANT'S sole risk and without liability or legal exposure to the OWNER. CONSULTANT shall defend, indemnify, and hold harmless the OWNER against all claims, losses, damages, injuries, and expenses, including attorney's fees, arising out of or resulting from such reuse.

ARTICLE 14 - OWNERSHIP OF DOCUMENTS AND INTELLECTUAL PROPERTY

Except as otherwise provided herein, engineering documents, drawings, and specifications prepared by CONSULTANT as part of the SERVICES shall become the property of OWNER. CONSULTANT shall retain its rights in its standard drawing details, specifications, data bases, computer software, and other proprietary property. CONSULTANT shall not be held liable for reuse of documents or modifications thereof by the OWNER or its representatives for any purpose other than the original intent of this AGREEMENT, without written authorization of and appropriate compensation to CONSULTANT. Rights to intellectual property developed, utilized, or modified in the performance of the SERVICES shall remain the property of CONSULTANT, but shall be provided to the OWNER, at no additional expense to the OWNER.

ARTICLE 15 - TERMINATION

This AGREEMENT may be terminated by either party upon written notice in the event of substantial failure by the either party to perform in accordance with the terms of this AGREEMENT. The non-performing party shall have fifteen (15) calendar days from the date of the termination notice to cure or to submit a plan for cure acceptable to the other party.

OWNER may suspend performance of this AGREEMENT for OWNER'S convenience upon written notice to CONSULTANT. Upon restart, an equitable adjustment may be made to CONSULTANT'S compensation, if the period of suspension has created an economic hardship for the CONSULTANT.

ARTICLE 16 - DELAY IN PERFORMANCE

Neither OWNER nor CONSULTANT shall be considered in default of this AGREEMENT for delays in performance caused by circumstances beyond the reasonable control of the non-performing party. For purposes of this AGREEMENT, such circumstances include, but are not limited to, abnormal weather conditions such as floods, earthquakes, fire; civil disturbances such as war, riots, or other civil epidemic; power outages, strikes, lockouts, work slowdowns, or other labor disturbances; sabotage; judicial restraint, and inability to procure permits, licenses, or authorizations from any local, state, or federal agency for any of the supplies, materials, accesses, or services required to be provided by either OWNER or CONSULTANT under this AGREEMENT.

Should such circumstances occur, the non-performing party shall, within a reasonable time of being prevented from performing, give written notice to the other party describing the circumstances preventing continued performance and the efforts being made to resume performance of this AGREEMENT.

ARTICLE 17 - WAIVER

A waiver by either OWNER or CONSULTANT of any breach of this AGREEMENT shall be in writing. Such a waiver shall not affect the waiving party's rights with respect to any other or further breach.

ARTICLE 18 - SEVERABILITY

The invalidity, illegality, or unenforceability of any provision of this AGREEMENT or the occurrence of any event rendering any portion or provision of this AGREEMENT void shall in no way affect the validity or enforceability of any other portion or provision of this AGREEMENT. Any void provision shall be deemed severed from this AGREEMENT, and the balance of this AGREEMENT shall be construed and enforced as if this AGREEMENT did not contain the particular portion or provision held to be void. The parties further agree to amend this AGREEMENT to replace any stricken provision with a valid provision that comes as close as possible to the intent of the stricken provision. The provisions of this Article shall not prevent this entire AGREEMENT from being void should a provision which is of the essence of this AGREEMENT be determined void.

ARTICLE 19 - INTEGRATION

This AGREEMENT represents the entire and integrated AGREEMENT between OWNER and CONSULTANT. It supersedes all prior and contemporaneous communications, representations, and agreements, whether oral or written, relating to the subject matter of this AGREEMENT.

ARTICLE 20 - SUCCESSORS AND ASSIGNS

To the extent permitted by Article 22, OWNER and CONSULTANT each binds itself and its successors and assigns to the other party to this AGREEMENT.

ARTICLE 21 - ASSIGNMENT

Neither OWNER nor CONSULTANT shall assign its duties under this AGREEMENT without the prior written consent of the other party. Unless otherwise stated in the written consent to an assignment, no assignment will release or discharge the assignor from any obligation under this AGREEMENT. Nothing contained in this Article shall prevent CONSULTANT from employing independent sub-consultants, associates, and sub-contractors to assist in the performance of the SERVICES. However, third party entities must comply with Article 9.

ARTICLE 22 - THIRD PARTY RIGHTS

Nothing in this AGREEMENT shall be construed to give any rights or benefits to anyone other than OWNER and CONSULTANT.

ARTICLE 23 - COMPLETION

CONSULTANT shall complete the services within the time frame outlined on Attachment E, Schedule, subject to conditions which are beyond the control of the CONSULTANT.

ARTICLE 24 - IMMIGRATION COMPLIANCE

24.1 Consultant shall demonstrate that he:

24.1.1 Has complied, and shall at all times during the term of this Contract, comply in all respects with all immigration-related laws, statutes, ordinances and regulations including without limitation, the Immigration and Nationality Act, as amended, the Immigration Reform and

Control Act of 1986, as amended, and the Oklahoma Taxpayer and Citizen Protection Act of 2007 (Oklahoma HB 1804) and any successor laws, ordinances or regulations (collectively, the Immigration Laws"); and

24.1.2 Has properly maintained, and shall at all times during the term of this Contract, maintain any and all employee records required by the U.S. Department of Homeland Security ("DHS"), including, without limitation, properly completed and maintained Form I-9s for each of the Consultants employees; and

24.1.3 Has verified the employment eligibility for all employees hired on or after July 1, 2008 through DHS's E-Verify system, and shall at all times continue to verify the employment eligibility of all employees hired during the term of this Contract; and

24.1.4 Has required, and will at all times during the term of this Contract, require any sub-contractor utilized, hired or sub-contracted for by Consultant for the completion or undertaking of any duties, tasks or responsibilities under this Contract, to comply the requirements and obligations imposed by the Immigration Laws and set forth in Paragraph (I), parts (a), (b) and (c), above, with regards to each of the sub-contractor's employees.

24.2 Consultant will indemnify, defend and hold harmless City against any loss, cost, liability, expense (including, without limitation, costs and expenses of litigation and reasonable attorney's fees) demands, claims, actions, causes of action, liabilities, suits, damages, including special and consequential damages that arise from or in connection with, directly or indirectly, Consultants failure, deliberate or negligent, to fulfill its obligations and representations regarding verifying the employment eligibility of its employees and the employees of any subcontractor utilized by Contractor as set forth more fully in Paragraph 24.1 above.

ARTICLE 25 - COMMUNICATIONS

Any communication required by this AGREEMENT shall be made in writing to the address specified below:

OWNER: Broken Arrow Municipal Authority
485 N. Poplar Street
Broken Arrow, OK 74012
Contact: Mr. Roger D. Hughes, P.E.
Engineering Division Manager

CONSULTANT: Tetra Tech, Inc.
7645 E 63rd Street, Suite 301
Tulsa, OK 74133
Contact Name: Mr. Joshua Paz, P.E.
Project Manager

Nothing contained in this Article shall be construed to restrict the transmission of routine communications between representatives of OWNER and CONSULTANT.

IN WITNESS WHEREOF, the City Manager of the City of Broken Arrow, Oklahoma has hereunto set his hand, for and on behalf of the City of Broken Arrow and the CONSULTANT has signed, or

caused his name to be signed, and seal affixed by proper authority, the day and year first above written and these presents have been executed in triplicate counterparts.

OWNER:

Broken Arrow Municipal Authority

CONSULTANT:

Tetra Tech, Inc.

Approved as to form:

By L. Spurgeon 9/9/19
Assistant City Attorney

By Felix R. Belanger
Felix Belanger, Vice President

Date August 7, 2019

By _____
Michael L. Spurgeon, City Manager

Date _____

Attest:

By _____
Curtis Green, City Clerk

Date _____

(CORPORATE SEAL) If applicable



Attest:

By William D. [Signature]

Date 8/8/19

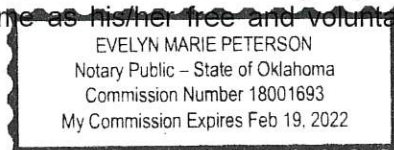
VERIFICATION

State of OKLAHOMA)
County of TULSA) §

Before me, a Notary Public, on this 7th day of AUGUST, 2019, personally appeared FELIX BELANGER, known to be to be the (President, Vice-President, Corporate Officer, Member, or Other: VICE PRESIDENT) of Tetra Tech, Inc., and to be the identical person who executed the within and foregoing instrument, and acknowledged to me that he/she executed the same as his/her free and voluntary act and deed for the uses and purposes therein set forth.

My Commission Expires:

2/19/22



Evelyn Marie Peterson
Notary Public

**ATTACHMENT A
TO
AGREEMENT FOR PROFESSIONAL CONSULTING SERVICES
BETWEEN
BROKEN ARROW MUNICIPAL AUTHORITY (OWNER)
AND
TETRA TECH, INC.
FOR
OLD ADAMS CREEK LIFT STATION REHABILITATION**

SCOPE OF SERVICES

The following scope of services shall be made a part of the AGREEMENT dated the 1st day of October 2019.

1.0 PROJECT UNDERSTANDING

- 1.1 CONSULTANT understands that the OWNER has retained their professional services in order to prepare an alternatives evaluation study for planning purposes for the rehabilitation of the Old Adams Creek Lift Station. This study shall include, but not be limited to, a detailed study report containing supporting data and documentation addressing the intent of the project.
- 1.2 The CONSULTANT is required to keep the OWNER apprised of the PROJECT costs and advise the OWNER of necessary cost reduction measures, if required, during the course of the PROJECT.
- 1.3 Furthermore, the CONSULTANT understands that the OWNER has \$200,000 available repurposed from an existing OWRB loan budgeted for Phase 1 – Study of this PROJECT that includes all professional consultant fees and project construction monies. OWNER will request additional loan money for future design tasks and construction.

2.0 PROJECT SCOPE AND BACKGROUND

- 2.1 The Old Adams Creek lift station (LS) is located 1800 N. 65th Street, Broken Arrow, OK. The station consists of a concrete wet well with a split face CMU building enclosure where 4 self-priming suction lift pumps are located. The pumps are 60 Hp and operate as 2 pumps in a series. The station was constructed in 2005 and is currently operational.
- 2.2 The Old Adams Creek LS is the central lift station located within the Adams Creek Drainage Basin. The station receives and pumps flows from seven (7) lift stations within the basin to a gravity interceptor located approximately 18,000 LF south of the station. The seven (7) lift stations that pump to Old Adams Creek LS are as follows: Timberbrook, 245th/Easley, Oneta Rd., Wellstone, Villas on the Green, Cambridge, and Park Lane. Wellstone and Villas on the Green lift stations discharge to the Oneta Rd. lift station which in turn pumps to the gravity line served by the Old Adams Creek lift station. All of the lift stations pumping to Old Adams Creek lift station discharge into a 12-inch gravity sewer which in turn discharges into the wet well of the Old Adams Creek lift station. According to City staff, the forcemain that conveys pumped flows from Old Adams Creek LS to the gravity interceptor is 12-inch C900 PVC that is approximately 20 years old.

- 2.3 The Old Adams Creek LS experiences upstream bypasses (sanitary sewer overflows - SSO) during heavy rain events. The bypasses are from manholes on the 12-inch gravity sewer upstream of the lift station.

3.0 SCOPE OF SERVICES

PHASE 1 - STUDY

- 3.1 PHASE 1 – STUDY, will consist of a review and evaluation of flow projections; evaluation of the existing Old Adams Creek lift station hydraulic capacity, condition, and functional aspects of the Old Adams Creek lift station, evaluation of alternatives for both short- and long-term improvements, and a report.
- 3.2 PROJECT MANAGEMENT. This subtask involves overall project management, quality control, and project workshops through the course of the Phase 1 study.
- 3.2.1 General Management and Coordination. This item includes:
- 3.2.1.1 Project initiation and setup.
 - 3.2.1.2 Coordination of the project team.
 - 3.2.1.3 General project communication and coordination with the AUTHORITY.
 - 3.2.1.4 Data collection and review.
 - 3.2.1.5 Quality Control Reviews. ENGINEER's senior design staff shall review the results of project activities and the deliverables prior to submission.
- 3.3 WORKSHOPS/MEETINGS. This task shall include workshops and meetings where the ENGINEER's and the AUHTORITY's key staff will meet to discuss various alternatives and findings as outlined in scope below. The preferences of the AUTHORITY's staff will be discussed and evaluated as well as the ideas of the design team. Within 7 days following each workshop/meeting, ENGINEER shall summarize the discussions and decisions in a memorandum and distribute meeting notes/minutes to each participant. The memorandums will serve to document the decisions. The workshops/meetings will include:
- 3.3.1 SCOPING MEETING. An initial meeting shall be conducted to establish and confirm the project approach, schedule, goals, and preliminary alternative concepts.
 - 3.3.2 CONCEPT REVIEW WORKSHOPS. Up to two (2) workshops shall be conducted. The first workshop will be to review preliminary findings of hydraulic assessments and evaluations and the second workshop can be used to review and finalize up to three (3) feasible alternatives for the report.
 - 3.3.3 REPORT REVIEW WORKSHOPS. Up to two (2) workshops shall be conducted. The first workshop will be to review comments on the draft report and the second workshop can be used to review and finalize the final report if needed.
- 3.4 HYDRAULIC EVALUATION – LIFT STATION:
- 3.4.1 THE HYDRAULIC EVALUATION shall identify the required flow capacity for both existing and future conditions, the current station capacity, and why the station cannot convey current peak flows.
 - 3.4.2 STATION CAPACITY PROJECTIONS: The ENGINEER shall review flow projections prepared by HDR as part of the 2018 Master Plan, evaluate more recent flow data from the flow monitors installed under this study, and compare and summarize the findings

of the flow projections for discussion with the AUTHORITY for lift station sizing. Population projections shall be used as given in the master plan developed by HDR. No new population forecasts will be performed. Based on the findings and discussions with the AUTHORITY, the ENGINEER shall provide an opinion of current flow projections for both dry weather and wet weather conditions at 1-year, 2-year, and 5-year return intervals.

- 3.4.3 CAPACITY EVALUATION: The ENGINEER shall evaluate the Old Adams Creek lift station in order to determine its existing capacity, and to identify potential capacity enhancements for both interim and long-term improvements. The Capacity Evaluation will consist of an inspection of the lift station, development of a testing plan, and such testing as is necessary to determine the existing pump capacity and potential capacity enhancements.
- 3.4.4 The testing plan will identify the specific tests to be performed, manpower requirements for both the ENGINEER and the AUTHORITY, testing schedule, test equipment to be utilized, and safety requirements. The draft Testing Plan shall be reviewed with the AUTHORITY and a final Testing Plan developed.
- 3.4.5 The testing shall be performed under the general guidance of the ENGINEER. All test data shall be recorded by the ENGINEER. Upon completing the testing, the ENGINEER shall conduct a hydraulic analysis of the lift station and force main system. Additional testing may be performed to test the hypotheses developed during the analysis if ENGINEER determines it is needed.
- 3.4.6 The ENGINEER shall utilize the existing lift station capacity information summarized by HDR as part of the 2018 Master Plan for the seven (7) other lift stations located within the Old Adams Creek basin for model development and alternatives analysis. No hydraulic evaluation/capacity testing will be performed for these stations as part of the scope of work. The AUTHORITY at their discretion may utilize the ENGINEER to perform additional station capacity testing however, this work is considered additional services and will require scope and fee modification.

4.1 FUNCTIONAL EVALUATION – LIFT STATION ASSESSMENT:

- 4.1.1 The ENGINEER shall evaluate the Old Adams Creek Lift Station in order to grade its overall functionality, condition, remaining useful life, and compatibility with current standards for City of Broken Arrow's lift stations. Each lift station component system shall also be evaluated to include pumping system, valves, structural condition of the station, electrical systems, instrumentation and control systems, screening systems, site accessibility considerations, flood protection, operations and maintenance, and all other systems operating in support of the overall station operation. The findings from the lift station evaluation will be summarized as an appendix in the final report.
- 4.1.2 The ENGINEER shall utilize the information from previous station evaluations completed by Dewberry in 2015 for the seven (7) other lift stations located within the Old Adams Creek basin. No lift station evaluation/assessment will be performed for these stations as part of the scope of work. The AUTHORITY at their discretion may utilize the ENGINEER to perform additional station evaluations, however,

this work is considered additional services and will require scope and fee modification.

5.1 FLOW MONITORING AND ANALYSIS:

- 5.1.1 Flow Monitoring will be performed in order to determine the relative I&I contribution and projected flows originating from within the study area. This information will be used to validate and corroborate the 2013 flow data and modeled flows as specified in the HDR as part of the 2018 Master Plan in conjunction with Hydraulic Modeling in order to evaluate various basin wide alternatives and to finalize the projected design capacity of the Old Adams Creek Lift Station to handle future flows.
- 5.1.2 The ENGINEER will analyze the Old Adams Creek basin collection system piping network and identify up to 8 optimum locations upstream of the Old Adams Creek Lift station for flow monitoring. ENGINEER shall install, retrieve and maintain flow monitors as necessary. Flow monitors shall consist of open channel flow monitors which measure depth of flow and velocity of flow over the duration of the flow monitoring period with redundant sensors installed. Flow monitors will be calibrated at a minimum of once per month. Monitors shall be installed over a 3-month period commencing on a notice to proceed or as early as October 1, 2019 to January 1, 2020. Simultaneous to flow monitoring, ENGINEER shall deploy rain gauges at strategic locations in the study area. The ENGINEER shall provide the AUTHORITY with a map and list depicting the locations of the flow monitors and rain gauges.
- 5.1.3 Flow data analysis will be performed to evaluate the flow data to determine the dry weather flow, to include, base infiltration and wastewater production; and wet weather flow, to include infiltration at saturated ground conditions (ISGC), and rainfall derived inflow and infiltration (RDII) using RTK methodology.

6.1 ALTERNATIVES DEVELOPMENT:

- 6.1.1 The ENGINEER shall identify and evaluate the required short- and long-term improvements needed at the Old Adams Creek lift station. The Alternatives Development phase shall result in final recommendations to the AUTHORITY for maximizing existing short-term capacity over the next 2-5 years, as well as recommendations for long-term improvements that will allow uninterrupted service to the basin.
- 6.1.2 The ENGINEER shall identify up to five (5) feasible alternatives and meet with the AUTHORITY to review them. The three (3) most feasible long-term solutions shall be selected. Upon approval, the three alternatives shall be evaluated in detail.
- 6.1.3 The ENGINEER shall utilize a copy of the AUTHORITY's InfoWorks ICM wastewater hydraulic model as previously developed by HDR as part of the 2018 Wastewater Master Plan, to calibrate and evaluate the system model to identify the capacity enhancements needed to achieve the project goals. A section of the draft and final reports will describe the results of the flow monitoring, flow data analysis, hydraulic modeling; and provide sizing recommendations for the Old Adams Creek Lift Station. This task assumes the hydraulic model provided by the AUTHORITY has been updated with recent pipe network information and is in good working condition. No remodeling of the existing hydraulic system will be

performed as part of this scope. The existing model will be evaluated and recalibrated for the alternatives developed. The AUTHORITY at their discretion may utilize the ENGINEER to perform additional hydraulic modeling to make updates to the existing wastewater hydraulic system, however, this work is considered additional services and will require scope and fee modification.

- 6.1.4 The ENGINEER shall validate alternatives within the hydraulic model to confirm future design flows and required pipe and lift station capacities.
- 6.1.5 The evaluation of each final long-term alternatives (3 total) shall consider capital costs as well as operational costs. Social impacts shall be described and weighted. Each alternative shall be described in sufficient detail to thoroughly communicate the proposed improvements; to include conceptual level drawings, cost estimates, and narrative descriptions. A matrix will be developed and reviewed with the AUTHORITY, each alternative ranked, and the rankings presented and discussed with the AUTHORITY.
- 6.1.6 The ENGINEER shall also identify up to five (5) short-term solutions that can be implemented in the interim of the long-term solutions based on discussion with the AUTHORITY.
- 6.1.7 The results of the evaluation shall be presented to the AUTHORITY and discussed. Revisions shall be made based on the AUTHORITY's comments and a final presentation shall be made to the AUTHORITY.

7.1 REPORT DELIVERABLES:

- 7.1.1 The ENGINEER shall prepare and submit a draft final report which includes results of the various evaluations and findings of the Study. ENGINEER will provide seven (7) copies of the draft report including an electronic PDF copy for AUTHORITY review and comment. After comments are received, a final report will be prepared and submitted to the AUTHORITY. ENGINEER will provide ten (10) copies of the final report including an electronic PDF copy.

- 4.1 PRELIMINARY DESIGN PHASE: This phase may be negotiated with the CONSULTANT upon the request of the OWNER.
- 5.1 FINAL DESIGN PHASE: This phase may be negotiated with the CONSULTANT upon the request of the OWNER.
- 6.1 BID DOCUMENTS. This task may be negotiated with the CONSULTANT upon the request of the OWNER.
- 7.1 BID ASSISTANCE PHASE: This phase may be negotiated with the CONSULTANT upon the request of the OWNER.
- 8.1 CONSTRUCTION SERVICES PHASE: This phase may be negotiated with the CONSULTANT upon the request of the OWNER.
- 9.1 RECORD DRAWINGS. This phase may be negotiated with the CONSULTANT upon the request of the OWNER.

**ATTACHMENT B
TO
AGREEMENT FOR PROFESSIONAL CONSULTING SERVICES
BETWEEN
BROKEN ARROW MUNICIPAL AUTHORITY (OWNER)
AND
TETRA TECH, INC.
FOR
OLD ADAMS CREEK LIFT STATION REHABILITATION**

ORGANIZATION OF SUBMITTAL DOCUMENTS

The CONSULTANT shall prepare the following documents as described as a part of the AGREEMENT dated the 1st day of October 2019.

- 1.0 CONSTRUCTION PLANS:** The CONSULTANT shall submit in-full, in accordance with City requirements.

Not Applicable under Basic Scope (Study Phase Only)

- 2.0 DESIGN ANALYSIS:** The CONSULTANT shall submit in-full, in accordance with City requirements.

Not Applicable under Basic Scope (Study Phase Only)

- 3.0 TECHNICAL SPECIFICATIONS:** The CONSULTANT shall submit in-full, in accordance with City requirements.

Not Applicable under Basic Scope (Study Phase Only)

- 4.0 DESIGN CALCULATIONS:** The CONSULTANT shall submit in-full, in accordance with City requirements.

Not Applicable under Basic Scope (Study Phase Only)

- 5.0 CONTRACT DOCUMENTS:** The CONSULTANT shall submit in-full, in accordance with City requirements.

Not Applicable under Basic Scope (Study Phase Only)

- 6.0 STUDY REPORT (10 hard copies)** The CONSULTANT shall submit in-full, a study report in accordance with City requirements.

- Alternative Analysis Evaluation Study Report - Old Adams Creek Lift Station Rehabilitation

**ATTACHMENT C
TO
AGREEMENT FOR PROFESSIONAL CONSULTING SERVICES
BETWEEN
BROKEN ARROW MUNICIPAL AUTHORITY (OWNER)
AND
TETRA TECH, INC.
FOR
OLD ADAMS CREEK LIFT STATION REHABILITATION**

COMPENSATION AND ADDITIONAL SERVICES

The following compensation and hourly rates shall apply as described in Attachment C and shall be made a part of the AGREEMENT dated the 1st day of October 2019.

1.0 BASIC COMPENSATION

The basic compensation for the Professional Consultant to perform all duties and responsibilities associated with the Scope of Services as described in Attachment A shall be in accordance with the following payment breakdown:

- 1.1 Phase 1 Study:
 - 1.1.1 Detailed Alternative Evaluation Study and Report: The OWNER shall pay the CONSULTANT a lump sum amount of \$125,000.00 for the completion of the Phase 1 study and report. This amount includes all labor, material, overhead and profit associated with the Scope of Services.
 - 1.1.2 Flow Monitoring: The OWNER shall pay the CONSULTANT a lump sum amount of \$54,000.00 for the completion of flow monitoring. This amount includes all labor, material, overhead and profit associated with the Scope of Services.
- 1.2 Preliminary Design Phase Payment: The OWNER may negotiate professional services fee with the CONSULTANT at the OWNER'S discretion.
- 1.3 Final Design Phase Payment: The OWNER may negotiate professional services fee with the CONSULTANT at the OWNER'S discretion.
- 1.4 Construction Services Phase: The OWNER may negotiate professional services fee with the CONSULTANT at the OWNER'S discretion.
- 1.5 Project Closeout Phase Payment: The OWNER may negotiate professional services fee with the CONSULTANT at the OWNER'S discretion.
- 1.6 The OWNER may negotiate other professional services fees with the CONSULTANT at the OWNER'S discretion.

2.0 ADDITIONAL SERVICES BASED ON TIME

The hourly rates set forth in Appendix 1 include all salaries, benefits, overhead and other indirect costs including federal, state, and local taxes, plus profit and effective as of January 1, 2019 for engineering services.

3.0 REPRODUCTION

All charges for reproduction shall be included in Basic Compensation Fee of the Professional Consultant. No separate payment will be made for these expenses.

4.0 MILEAGE

All direct costs shall be included in the Basic Compensation of the Professional Consultant. No separate payment will be made for these expenses.

5.0 DIRECT COSTS

All direct costs shall be included in the Basic Compensation of the Professional Consultant. No separate payment will be made for these expenses.

6.0 ADJUSTMENT CLAUSE

The rates and costs described in this AGREEMENT shall not be revised annually, unless mutually agreed upon by both parties.

**ATTACHMENT D
TO
AGREEMENT FOR CONSULTING SERVICES
BETWEEN
BROKEN ARROW MUNICIPAL AUTHORITY (OWNER)
AND
TETRA TECH, INC.
FOR
OLD ADAMS CREEK LIFT STATION REHABILITATION**

OWNER'S RESPONSIBILITIES AND SPECIAL CONDITIONS

The following list of special OWNER'S responsibilities and contract special conditions shall be made a part of this AGREEMENT dated the 1st day of October 2019.

1.0 OWNER'S RESPONSIBILITIES

- 1.1 OWNER shall furnish to CONSULTANT all available information pertinent to the PROJECT including previous reports, wastewater hydraulic model, record drawings and any other data relative to study, design and construction of the PROJECT;
- 1.2 OWNER shall furnish to CONSULTANT all public utility information available relative to the design and construction of the PROJECT.
- 1.3 OWNER shall furnish to CONSULTANT list of codes adopted by the municipality as well as subdivision regulations, design criteria and construction standards and specifications that may be pertinent to the design and construction of the PROJECT;
- 1.4 OWNER shall be responsible for all permit fees and for all reproduction costs associated with the bidding of the final approved construction documents required for the construction of this PROJECT;
- 1.5 OWNER shall be responsible for all land/easement acquisition costs and filing of the required legal documents, if necessary; and
- 1.6 OWNER shall examine all studies, reports, sketches, estimates, specifications, plan drawings, proposals, and other documents presented by the CONSULTANT and render in writing decisions pertaining thereto within a reasonable time so as not to delay the SERVICES of the CONSULTANT.
- 1.7 OWNER shall be responsible for coordinating all property access and notifying public of planned work. CONSULTANT shall have free and safe passage to access properties within project area as required by PROJECT.

2.0 SPECIAL CONDITIONS

- 2.1 OWNER shall be responsible for all sampling and laboratory testing cost identified in the Agreement, if necessary.

**ATTACHMENT E
TO
AGREEMENT FOR PROFESSIONAL CONSULTING SERVICES
BETWEEN
BROKEN ARROW MUNICIPAL AUTHORITY (OWNER)
AND
TETRA TECH, INC.
FOR
OLD ADAMS CREEK LIFT STATION REHABILITATION**

PROJECT SCHEDULE

The following schedule shall be made a part of the AGREEMENT dated the 1st day of October 2019.

1.0 PHASE 1 STUDY – OLD ADAMS CREEK LIFT STATION REHABILITATION

1.1.0 ALTERNATIVES EVALUATION STUDY REPORT:

- 1.1 Hold Preliminary Alternative Study Review Workshop: within 120 days of Notice to Proceed
- 1.2 Hold Final Alternative Review Workshop: within 45 days of draft review workshop
- 1.3 Submit Draft Report: within 75 days of final review workshop
- 1.4 Owner Review: 14 days
- 1.5 Submit Final Report: within 21 days after Owner review comments are received.

2.0 PRELIMINARY DESIGN PHASE: TBD

3.0 FINAL DESIGN PHASE: TBD

4.0 BIDDING PHASE: TBD

5.0 CONSTRUCTION OVERSIGHT PHASE: TBD

APPENDIX 1 - RATES

Hourly Billing Rates for: IEW

Rates Effective Starting: January 1, 2019

Personnel	Hourly Rate
Management	
Operations Management	
Principal in Charge	\$340.00
Project and Program Management	
Project Manager 1	\$185.00
Project Manager 2	\$200.00
Sr Project Manager	\$240.00
Program Manager	\$260.00
A/E Services	
Engineers	
Engineer 1	\$95.00
Engineer 2	\$110.00
Engineer 3	\$125.00
Project Engineer 1	\$140.00
Project Engineer 2	\$170.00
Sr Engineer 1	\$220.00
Sr Engineer 2	\$225.00
Sr Engineer 3	\$250.00
Principal Engineer	\$340.00
Engineering Designers	
Engineering Technician	\$65.00
Engineering Designer 1	\$90.00
Engineering Designer 2	\$110.00
Engineering Designer 3	\$125.00
Sr Eng Designer 1	\$150.00
Sr Eng Designer 2	\$160.00
Sr Eng Designer 3	\$180.00
Architects	
Arch Technician	\$55.00
Architectural Designer 1	\$75.00
Architectural Designer 2	\$85.00
Architectural Designer 3	\$130.00
Architect 1	\$135.00
Architect 2	\$145.00
Sr Architect 1	\$180.00
Sr Architect 2	\$200.00
Architectural Program Mgr	\$260.00
Interior Designers	
Interior Designer 1	\$85.00
Interior Designer 2	\$95.00
Interior Designer 3	\$105.00
Sr Interior Designer 1	\$190.00

Schedule of Hourly Rates

Hourly Billing Rates for: IEW

Rates Effective Starting: January 1, 2019

Personnel	Hourly Rate
Sr Interior Designer 2	\$200.00
Sr Interior Designer 3	\$230.00
Landscape Architects	
Landscape Designer 1	\$75.00
Landscape Design 2	\$85.00
Landscape Designer 3	\$100.00
Landscape Architect 1	\$115.00
Landscape Architect 2	\$140.00
Planning	
Planner 1	\$90.00
Planner 2	\$100.00
Planner 3	\$115.00
Sr Planner 1	\$140.00
Sr Planner 2	\$160.00
Sr Planner 3	\$180.00
Principal Planner	\$200.00
Information Technology	
Sys Analyst / Programmer 1	\$105.00
Sys Analyst / Programmer 2	\$120.00
Sr Sys Analyst / Programmer 1	\$165.00
Sr Sys Analyst / Programmer 2	\$265.00
Sci Svcs	
Scientists	
Scientist 1	\$75.00
Scientist 2	\$95.00
Scientist 3	\$120.00
Sr Scientist 1	\$135.00
Sr Scientist 2	\$165.00
Sr Scientist 3	\$210.00
Principal Scientist	\$260.00
Field Services	
Construction Observation	
Construction Project Rep 1	\$80.00
Construction Project Rep 2	\$10.00
Sr Constr Project Rep 1	\$140.00
Sr Constr Project Rep 2	\$150.00
Construction Administration	
Construction Administrator	\$90.00
Sr Construction Administrator	\$110.00
Construction Management	
Construction Manager 1	\$170.00
Construction Manager 2	\$200.00

Schedule of Hourly Rates

Hourly Billing Rates for: IEW

Rates Effective Starting: January 1, 2019

Personnel	Hourly Rate
Sr Construction Manager	\$235.00
Construction Director	\$280.00
Surveying	
Survey Tech 1	\$60.00
Survey Tech 2	\$90.00
Survey Crew Chief	\$100.00
Surveying Specialist	\$130.00
Land Surveyor	\$135.00
Sr Land Surveyor	\$155.00
Plant Operations	
Plant Operator 1	\$85.00
Plant Operator 2	\$95.00
Plant Supervisor	\$110.00
Technical Services	
Technicians	
Technician 1	\$65.00
Technician 2	\$80.00
Technician 3	\$95.00
Sr Technician 1	\$135.00
Sr Technician 2	\$140.00
Sr Technician 3	\$145.00
Project Support	
Computer Aided Design (CAD)	
CAD Technician 1	\$65.00
CAD Technician 2	\$75.00
CAD Technician 3	\$95.00
CAD Designer	\$110.00
Sr CAD Designer 1	\$130.00
Sr CAD Designer 2	\$145.00
CAD Director	\$160.00
Geographic Information Systems (GIS)	
GIS Analyst 1	\$70.00
GIS Analyst 2	\$100.00
Sr GIS Analyst	\$110.00
GIS Application Developer	\$130.00
Sr GIS Application Developer	\$170.00
Business Support	
Project Administration	
Project Assistant 1	\$65.00
Project Assistant 2	\$75.00
Project Administrator	\$95.00
Sr Project Administrator	\$115.00

Schedule of Hourly Rates

Hourly Billing Rates for: IEW

Rates Effective Starting: January 1, 2019

Personnel	Hourly Rate
Contracts / Legal	
Contract Administrator	\$80.00
Sr Contract Administrator	\$115.00
Finance / Accounting	
Project Analyst 1	\$75.00
Project Analyst 2	\$100.00
Sr Project Analyst	\$155.00
Project Accounting Director	\$240.00
Technical Writers	
Technical Writer 1	\$95.00
Technical Writer 2	\$100.00
Sr Technical Writer	\$125.00
Sr Technical Writer 2	\$150.00
Graphics	
Graphic Artist	\$125.00
Consulting	
Consultant 1	\$75.00
Consultant 2	\$100.00
Sr Consultant 1	\$160.00
Sr Consultant 2	\$190.00
Sr Consultant 3	\$200.00



City of Broken Arrow

Request for Action

File #: 19-1192, **Version:** 1

Broken Arrow Municipal Authority
Meeting of: 10-01-2019

Title:

Approval of and authorization to purchase one (1) 1-ton cargo van from Bob Howard Chrysler Jeep Dodge, pursuant to the Oklahoma Statewide Vehicle contract, for the Fleet Maintenance Division

Background:

The Fleet Maintenance Division of the General Services Department has budgeted for the purchase of a 1-ton cargo van. The van is an addition to the fleet and will be used to expand Fleet mobile services for minor repairs, adjustments, service and diagnostics out to the various Fire Department stations.

This vehicle will be purchased under the Oklahoma Statewide Contract for Cars, Passenger vans, Trucks, Suv's, Cargo vans, Police vehicles and CNG vehicles, number SW035. All State Departments, Boards, Commissions, Agencies and Institutions, as well as Counties, School Districts and Municipalities may purchase vehicles from this contract. Pricing under this contract is good until November 14, 2019.

The bid tabulation includes the lowest bidding vendors for the all the brands of 1-ton cargo vans with extended wheel base and high roof under this contract. Base pricing and selected options are reflected in the attached bid tabulation. Staff recommends that the Authority award the lowest responsible bid to Bob Howard Chrysler Jeep Dodge for the purchase of one 2019/2020 Ram 3500 Promaster Cargo van.

Cost: \$27,295.00

Funding Source: Broken Arrow Municipal Authority - Capital Outlay General Services

Requested By: Lee Zirk, General Services Director

Approved By: City Manager's Office

Attachments: State contract 100009370 bid tabulation for 1-ton cargo van with extended wheel base and high roof

Recommendation:

Approve the purchase of one, 1-ton cargo van from Bob Howard Chrysler Jeep Dodge pursuant to the Oklahoma Statewide Vehicle contract

1 Ton cargo van, with extended wheelbase with high roof

State Contract 1000009370

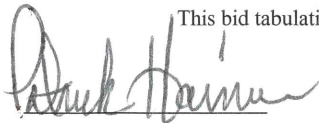
Expires 11/14/2019

	Vendor		Bob Howard Chrysler Jeep Dodge	Bill Knight Ford
	Specification		2019/2020 Ram 3500 promaster cargo van	2020 Ford transit T350
Item Number	Item	Qty	each price	each price
	1 Ton cargo van	1	\$25,670.00	\$27,148.00
	Options			
1	Add long wheelbase & roof height	1	included	\$7,115.00
2	Add limited slip/locking diff	1	included	\$298.00
3	Add larger alternator list amps	1	\$290.00	included
4	Add reverse sensors	1	\$285.00	\$272.00
5	Add backup camera	1	included	included
6	Add slide side door	1	included	included
7	Add power lock/windows	1	included	included
8	Add deep tinted glass to sidedoor and rear doors	1	included	\$225.00
9	Add keyless entry	1	included	included
10	Add additional keys	1	\$125.00	\$69.00
11	Add cruise control	1	\$345.00	\$299.00
12	Add hitch, wiring, receiver	1	\$580.00	\$447.00
	Total		\$27,295.00	\$35,873.00
	Meet specs		y	y
	Delivery		120 days	120 days
	Warranty bumper to bumper		3yr/36K	3yr/36K
	Warranty drive train		5yr/100K	5yr/100K

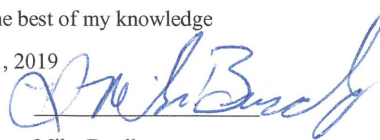
Fleet Department Project 205103

This bid tabulation is true and accurate to the best of my knowledge

Wednesday, September 11, 2019



Patrick Harrison
Purchasing Manager



Mike Bradley
Fleet Manager



City of Broken Arrow

Request for Action

File #: 19-1212, **Version:** 1

Broken Arrow Municipal Authority
Meeting of: 10-01-2019

Title:

Approval of and authorization to purchase one (1) ½ ton crew cab 4WD pickup truck from Vance Chevrolet, pursuant to the Oklahoma Statewide Vehicle Contract, for the Utilities Department

Background:

The Utilities Department has budgeted for the purchase of one (1) ½ ton crew cab 4WD pickup truck for the Water Department.

The vehicle will be purchased under the Oklahoma Statewide Contract. All State Departments, Boards, Commissions, Agencies and Institutions as well as Counties, School Districts and Municipalities may purchase vehicles from this contract.

Base pricing and selected options for the ½ ton crew cab 4WD pickup truck are reflected in the attached bid tabulation. The bid tabulations includes all vendors submitting bids under this contract. Utilities Department recommends the state bid from Vance Chevrolet for one Chevrolet Silverado Crew Cab 4WD as the most advantageous bid.

Cost: \$29,997

Funding Source: 020-5400-434-7002 Project 205404

Requested By: Charles Vokes, Utilities Director

Approved By: City Manager's Office

Attachments: State Contract 1000009315

Recommendation:

Approve and authorize the purchase of one (1) ½ ton crew cab 4WD pickup truck from Vance Chevrolet pursuant to the Oklahoma Statewide Contract

1/2 Ton Truck Crew Cab
State Contract 1000009315
Expires 11/14/2019

	Vendor		Vance Chevrolet	Bill Knight Ford	John Vance Motors
	Specification		2020 Chevrolet Silverado	2020 F150 Crew Cab	2020 Ram 1500 Crew Cab
Item Number	Item	Qty	each price	each price	each price
	1/2 Ton Truck Crew Cab	1	\$25,997.00	\$26,798.00	\$21,998.00
	Options				
1	Add four wheel drive	1	\$2,571.00	\$2,512.00	\$3,691.00
2	Add limited slip/locking diff.	1	\$395.00	\$387.00	\$93.00
3	Add daytime running lights	1	\$0.00	\$41.00	\$50.00
4	Add side steps	1	\$425.00	\$231.00	\$475.00
5	Add additional keys	1	\$189.00	\$85.00	\$248.00
6	Add am/fm cd	1	n/a	n/a	included
7	Delete cloth seat	1	included	included	included
8	Add bucket seats with console	1	included	included	\$5,022.50
9	Add terrain tires	1	\$195.00	\$272.00	\$275.00
10	Add front tow hooks	1	\$50.00	\$38.00	\$85.00
11	Add blue tooth	1	\$175.00	\$612.00	\$649.00
	Total		<u>\$29,997.00</u>	\$30,976.00	\$32,586.50
	Delivery		120 days	120 days	120 days
	Warranty Bumper to Bumper		3yr/36K	3yr/36K	3yr/36K
	Warranty Drive Train		5yr/100K	5yr/60K	5yr/60K

Water Utilities Project 205404

This bid tabulation is true and accurate to the best of my knowledge

Tuesday, September 17, 2019



Patrick Harrison

Purchasing Manager



City of Broken Arrow

Request for Action

File #: 19-1069, **Version:** 1

Broken Arrow Municipal Authority
Meeting of: 10-1-2019

Title:

Award the most advantageous bid to Dickson Equipment Company for the purchase of three refuse packer bodies for the Sanitation Division of the General Services Department

Background:

The Sanitation Division of the General Services Department requested and sought bids for one replacement and two additional refuse trucks. Two of four back-up trucks have in excess of 158,000 miles and one in excess of 215,000 miles. The two additional trucks will improve truck availability for collection routes due to truck maintenance down time and long wait times at the Covanta Trash to Energy plant and the Landfill. These wait times effectively remove trucks from the route. All new trucks being purchased will be also be fully capable to collect refuse or recyclables utilizing carts. Delivery of the chassis, its associated packer body, shipment and packer installation is expected to be between six and nine months depending on manufacturer scheduling. Ordering these trucks will ensure a reliable fleet is available for next year's heavy summer period. Funds have been appropriated and are available in the Broken Arrow Municipal Authority (BAMA) Capital Outlay Fund in the amount of \$547,000.

Bids were solicited from eight refuse packer supplier dealers. Three suppliers submitted bids, with one, submitting three alternate bids. The lowest bid was meeting specifications was submitted by Dickson Equipment company for a New Way Cobra 20 yard refuse packer in the amount of \$73,208.00 each and is recommended for purchase. Additional options selected are reflected in the attached bid tabulation.

The total price for three refuse packers is \$219,624. The remaining funds will be used to purchase refuse cab and chassis, which were bid separately. Staff recommends that the Authority award the most advantageous bid to Dickson Equipment Company.

Cost: \$219,624.00

Funding Source: Broken Arrow Municipal Capital, Project 205108 and 205109

Requested By: Lee Zirk, General Services Director

Approved By: City Manager's Office

Attachments: Bid number 20.101 bid tabulation

Recommendation:

Award the most advantageous bid to Dickson Equipment Company for the purchase of three refuse packer bodies

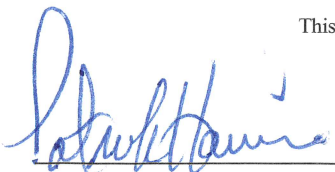
Bid 20.102
Refuse Packer
Bid Date 08/06/19

Vendor			Dickson Equipment Co. #3	Dickson Equipment Co. #4	Dickson Equipment Co. #1	Dickson Equipment Co. #2	J & R Equipment	Waste Research Inc.
Specification		Qty	Curbtender Quantum XL 20 yd	New Way Cobra 20 yd	Curbtender Fury 20 yd	New Way Cobra Magnum 20 yd	Leach 2RIII Rear Loader	WE-Z Pack G400C-20
Refuse Packer		3	\$57,508.00	\$61,533.00	\$64,323.00	\$67,154.00	\$68,580.00	\$98,910.09
Option Number	Options Packer							
1	Cart Tippers, 2 each	1	\$9,750.00	\$9,750.00	\$9,750.00	\$9,750.00	\$13,610.00	\$10,817.00
3	Work lights	1	\$325.00	\$325.00	\$325.00	\$325.00	\$673.00	\$373.72
4	Hopper lights	1	\$250.00	\$250.00	\$250.00	\$250.00	\$537.00	\$0.00
5	Rear view camera	1	\$0.00	\$0.00	\$0.00	\$0.00	\$1,776.00	\$0.00
6	Broom holder	1	\$200.00	\$200.00	\$200.00	\$200.00	\$283.00	\$380.32
7	Shovel holder	1	\$200.00	\$200.00	\$200.00	\$200.00	\$0.00	\$0.00
8	Remote grease fittings	1	\$600.00	\$600.00	\$600.00	\$600.00	\$3,564.00	N/A
9	Underbody storage box	1	\$675.00	\$675.00	\$675.00	\$675.00	\$1,444.00	\$574.20
10	Auto tailgate lock	1	\$0.00	-\$325.00	\$1,750.00	\$1,750.00	\$3,737.00	\$0.00
Total each			\$69,508.00	\$73,208.00	\$78,073.00	\$80,904.00	\$94,204.00	\$111,055.33
Total 3 each			\$208,524.00	<u>\$219,624.00</u>	\$234,219.00	\$242,712.00	\$282,612.00	\$333,165.99
Meet specs.			No	Yes	No	Yes	Yes	Yes
Delivery			120 days	190 days	120 days	190 days	120 days	90-105 days
Warranty			1 year	1 year	1 year	1 year	1 year	1 year
Notes			Does not meet specs for: Hopper size, PTO configuration, chassis suspension requirements	2 year hydraulic cylinder warranty	Does not meet specs for: Hopper size, PTO configuration, chassis suspension requirements	2 year hydraulic cylinder warranty		

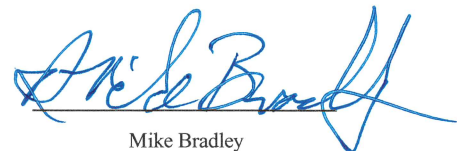
Sanitation Projects (205108) & (205109) Bids sent out to 8 Vendors

This bid tabulation is true and accurate to the best of our knowledge

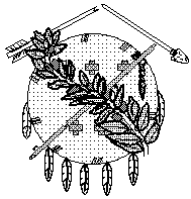
Friday, August 09, 2019



Patrick Harrison
Purchasing Manager



Mike Bradley
Fleet Manager



City of Broken Arrow

Request for Action

File #: 19-1068, **Version:** 1

Broken Arrow Municipal Authority
Meeting of: 10-1-2019

Title:

Award the most advantageous bid to Premier Truck Group for the purchase of three refuse truck cab and chassis for the Sanitation Division of the General Services Department

Background:

The Sanitation Division of the General Services Department requested and sought bids for one replacement and two additional refuse trucks. Two of four back-up trucks have in excess of 158,000 miles and one in excess of 215,000 miles. The two additional trucks will improve truck availability for collection routes due to truck maintenance down time and long wait times at the Covanta Trash to Energy plant and the Landfill. These wait times effectively remove trucks from the route. All new trucks being purchased will be also be fully capable to collect refuse and recyclables utilizing carts. Delivery of the chassis, its associated packer body, shipment and packer installation is expected to be between six and nine months depending on manufacturer scheduling. Ordering these trucks will ensure a reliable fleet is available for next year's heavy summer period. Funds have been appropriated and are available in the Broken Arrow Municipal Authority (BAMA) Capital Outlay Fund in the amount of \$547,000.

Bids were solicited from eight dealers. Three dealers submitted bids, with two dealers submitting alternate bids. The lowest bid was meeting specifications was submitted by Premier Truck Group for a 2019 Freightliner chassis in the amount of \$96,889.00 each and is recommended for purchase. Additional options selected are reflected in the attached bid tabulation.

The total price for three chassis is \$290,667.00. The remaining funds will be required to purchase refuse packer bodies, which were bid separately. Staff recommends that the Authority award the most advantageous bid to Premier Truck Group.

Cost: \$290,667.00

Funding Source: Broken Arrow Municipal Capital, Project 205108 and 205109

Requested By: Lee Zirk, General Services Director

Approved By: City Manager's Office

Attachments: Bid number 20.101 bid tabulation

Recommendation:

Award the most advantageous bid to Premier Truck Group for the purchase of three refuse cab and chassis

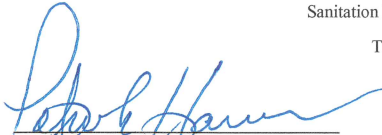
Bid 20.101
Refuse Cab & Chassis
Bid Date 08/07/2019

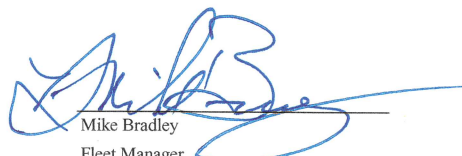
	Item	Rush Truck #1	Premier Truck #3	Premier Truck #1	Summit Truck Group	Premier Truck #2	Rush Truck #2
	Specification	2019 Hino XL8 Cab & Chassis	2019 Freightliner 114SD Cab & Chassis	2019 Freightliner 114SD Cab & Chassis	2020 International HV607 6x4 Tandem Cab & Chassis	2019 Freightliner 114SD Cab & Chassis	2019 Peterbilt 348 Cab & Chassis
Item Number		each price	each price	each price	each price	each price	each price
1	Refuse Cab & Chassis	\$85,465.00	\$95,100.00	\$93,139.00	\$97,065.00	\$94,995.00	\$102,195.00
2	Drop ship charges	included	included	included	included	included	included
3	Frame overhang per foot	included	included	included	included	included	included
4	CT beyond 134 inch	included	included	included	included	included	included
5	Load scales recommended by dealer for chassis			\$3,750.00		\$3,750.00	
	Total	\$85,465.00	\$95,100.00	\$96,889.00	\$97,065.00	\$98,745.00	\$102,195.00
	Total (Quantity of Three)	\$256,395.00	\$285,300.00	\$290,667.00	\$291,195.00	\$296,235.00	\$306,585.00
	Meet Specs	No	No	Yes	Yes	Yes	Yes
	Transmission & rear suspension does not meet specifications	Transmission & rear suspension does not meet specifications	Rear suspension does not meet specifications				
	List Delivery Time	150 days	120-150 days	120-150 days	120-150 days	120-150 days	150 days
	Warranty Basic	2yr/unlimited	2yr/unlimited	2yr/unlimited	2yr/unlimited	2yr/unlimited	1 yr/100k
	Warranty Drivetrain	3yr/unlimited	3 yr	3 yr	3 yr	3 yr	2 yr/250k
	Warranty Engine	3yr/36k	2 yr/250K	2 yr/250K	2 yr/250K	2 yr/250K	3 yr/unlimited

Sanitation Project 205108 (1 Truck) 205109 (2 Trucks) Bids were sent to 8 vendors

This bid tabulation is true and accurate to the best of our knowledge

Wednesday, August 07, 2019


Patrick Harrison
Purchasing Manager


Mike Bradley
Fleet Manager



City of Broken Arrow

Request for Action

File #: 19-1227, Version: 1

Broken Arrow Municipal Authority
Meeting of: 10-1-19

Title:

Approval of and authorization to execute Change Order #1 with Belt Construction, Inc. for construction contract S.1609; County Line Trunk Sewer - Phase 1

Background:

The existing County Line Trunk Sewer from the Lynn Lane Wastewater Treatment Plant north to Washington Street is in need of replacement due to the deteriorated condition of the pipeline and inadequate capacity for future growth. The awarded project includes the construction of approximately 5,300 feet of 60-inch, 9,400 feet of 54-inch, and 4,100 feet of 48-inch gravity sanitary sewer interceptor pipelines along and near Broken Arrow Creek and 23rd Street, with new manholes and creek crossing structures. The Base Bid includes construction from the Lynn Lane Wastewater Treatment Plant (LL WWTP) north to the south side of the Creek Turnpike. Additive Alternate No. 1 includes construction north from this point terminating at a connection to the existing pipeline approximately 900 feet north of Florence Street. The project was advertised for bids on April 23 and 30, 2019 with the resulting lowest responsible bidder being Belt Construction, Inc., with a Base Bid of \$12,877,274.25 and an Additive Alternate No. 1 bid of \$3,170,841.61. A notice to proceed was issued for July 15, 2019.

This Change Order #1 addresses the following additions to the contract:

- As discussed and summarized within RFI #4, the contractor is to procure and install the revised diameter of casing pipes for the associated sections of the County Line Trunk Sewer project. Casing pipe sizes increased due to an approved variation from fiberglass spun style pipe to a PVC style pipe with bell joints. The associated casing pipe changes are reflected within the RFI and Belt Construction proposal. The change order costs shall be executed on a linear foot basis as a supplemental to the base line price and include all applicable costs and markups.

Total Number of Days Added by this Change Order:

- This work will not affect the critical path or substantial completion of the original project and thus no additional time is required.

The additional cost associated with these changes is as follows:

Previous Change Orders:	\$0.00
This Change Order:	\$125,247.00

Total Cost of Change Orders:	\$125,247.00
Original Contract Amount:	\$16,048,115.86
Revised Contract Amount:	\$16,173,362.86
Percent Change in Contract:	0.78%
Applicable to Comp. Bid Act:	0.78%

Cost: \$125,247.00

Funding Source: OWRB loans FAP-17-0004-L & FAP-19-0001-L

Requested By: Kenneth D. Schwab, P.E., CFM, Assistant City Manager - Operations

Approved By: City Manager's Office

Attachments: S.1609 Contract Change Order #1

Recommendation:

Approve and authorize execution of change order #1 with Belt Construction, Inc. for construction contract S.1609; County Line Trunk Sewer - Phase 1

Contract Change Order # 1

Project Name: <u>County Line Trunk Sewer - Phase I</u>	Project Number: <u>S.1609</u>
Project Location: <u>Between WWTP and 111st Street</u>	Date of Application: <u>Monday, September 23, 2019</u>
Contractor: <u>Belt Construction, Inc.</u>	Submitted By: <u>Kyle Bass</u>

Summary of Change in Scope of Work

The following scope of work consisting of work location, work description, established quantities, and timeline for completion has been reviewed and agreed upon by the contractor, the origin funding department, and the Engineering and Construction Department.

Change of Work Items Included in this Change Order:

- As discussed and summarized within RFI #4, the contractor is to procure and install the revised diameter of casing pipes for the associated sections of the County Line Trunk Sewer project. Casing pipe sizes increased due to an approved variation from fiberglass spun style pipe to a PVC style pipe with bell joints. The associated casing pipe changes are reflected within the RFI and Belt Construction proposal. The change order costs shall be executed on a linear foot basis as a supplemental to the base line price and include all applicable costs and markups.

Change in Contractual Project Time:

- 1) No additional time requested

Plan Sheets or Additional Documents Attached: ☒ Yes ☐ No ☐ Other: _____

Work Order Quantities

Item#	(Spec)	Item Description	Units	Price	Quantity	Total Amount
CO1-1	na	Casing/Bore increase @ 60" Pipe	LF	\$ 556.00	165	\$ 91,740.00
CO1-2	na	Casing/Bore Increase @ 54" Pipe	LF	\$ 28.00	204	\$ 5,712.00
CO1-3	na	Casing/Bore Increase @ 48" Pipe	LF	\$ 327.00	85	\$ 27,795.00
Total Change Cost:						\$ 125,247.00

Summary of Project Costs

Total Previous Change Orders:	\$ -	Original Contract Amount:	\$ 16,048,115.86
Current Change Order:	\$ 125,247.00	Amended Contract Amount:	\$ 16,173,362.86
Total Cost of Change Orders:	\$ 125,247.00	Percent Change in Contract:	0.78%
Total Cost Applicable to CBA:	\$ 125,247.00	Percent Change Applicable to CBA:	0.78%

Change Order Authorization

Change Order # <u>1</u> in the sum of: \$ <u>125,247.00</u>	has been reviewed by all parties and is recommended for approval by:		
Contractor Submitting Change Order:	Name	Signature	Date
Construction Division Manager:	Timothy S Robins, PE		
Acting Director of Engineering & Construction:	Mike Kyser, PE		
Assistant City Manager - Operations:	Kenneth D Schwab, PE		
City Manager:	Michael Spurgeon		

This Change is Executed Through:

- ☐ This change to the contract documents is authorized by the City Manager's authority in accordance with the applicable state statutes and COBA Code of Ordinances.
or
☒ This change to the contract documents was approved at the City Council/BAMA meeting held on : Tuesday, October 1, 2019



2507 E. Broad
 Texarkana, AR 71854
 Office: 870-772-7216
 Fax: 870-772-7233

Request for Information

Project Name: Broken Arrow County Line Trunk Sewer		RFI No: 004																
PEC's Project No.: 160505	Date: 8/12/2019	BELT's Project No.: 1842																
Subject: Casing Size Increase																		
Spec Section: 33 05 24	Drawing: N/A	Detail: Page No. 47																
QUESTION:																		
<p>After reviewing PVC Bell OD sizing and reciving submittals from the spacer supplier the casing shown on the plans is going to be to small. Please advise.</p>																		
Please Respond by This Date: At your earliest convenience.																		
RESPONSE:																		
<p>Replace the following pay items with the indicated substitutions:</p> <table border="1"> <thead> <tr> <th>Pay Item</th> <th>Original Specified</th> <th>Substitution</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>20</td> <td>60" Steel Casing</td> <td>78" Steel Casing</td> <td>165 LF (no change)</td> </tr> <tr> <td>21</td> <td>54" Steel Casing</td> <td>72" Steel Casing</td> <td>204 LF (no change)</td> </tr> <tr> <td>A1-12</td> <td>48" Steel Casing</td> <td>66" Steel Casing</td> <td>85 LF (no change)</td> </tr> </tbody> </table>			Pay Item	Original Specified	Substitution	Quantity	20	60" Steel Casing	78" Steel Casing	165 LF (no change)	21	54" Steel Casing	72" Steel Casing	204 LF (no change)	A1-12	48" Steel Casing	66" Steel Casing	85 LF (no change)
Pay Item	Original Specified	Substitution	Quantity															
20	60" Steel Casing	78" Steel Casing	165 LF (no change)															
21	54" Steel Casing	72" Steel Casing	204 LF (no change)															
A1-12	48" Steel Casing	66" Steel Casing	85 LF (no change)															
Submitted by Contractor: Pate Easterling		Date: 8/12/2019																
Received by:		Date:																
By: Chad Grisier, P.E.	Professional Engineering Consultants	Date: 9/18/2019																



2507 E. Broad
Texarkana, AR 71854
Office: 870-772-7216
Fax: 870-772-7233

September 5, 2019

Timothy Robins, PE
Construction Division Manager
485 N. Poplar Avenue
Broken Arrow, OK 74012

Re: Cost Change Proposal 01 Casing Size Increase
County Line Trunk Sewer Improvements Phase 1

Tim,

Please accept this letter as a request for a cost change proposal. On August 8th, 2019 we submitted RFI 004 in reference to the casing sizes being too small for the carrier pipe bell O.D.s. We received an email from PEC requesting the 60" carrier pipe casing being increased to 78", the 54" carrier pipe casing being increased to 72" and the 48" carrier pipe casing being increased to 66". We reached out to our casing supplier and bore sub-contractor for prices. Please see below for the cost change on each Bid Item Number.

Bid Item No. 20 Boring and Steel Encasement for 60" Sanitary Sewer Pipe
Original Pricing \$1,491.00 per linear foot (72" Casing)
Cost Change \$2,047.00 per linear foot (78" Casing)

Bid Item No. 21 Boring and Steel Encasement for 54" Sanitary Sewer Pipe
Original Pricing \$1,463.00 per linear foot (66" Casing)
Cost Change \$1,491.00 per linear foot (72" Casing)

Bid Item No. A1-12 Boring and Steel Encasement for 48" Sanitary Sewer Pipe
Original Pricing \$1,136.00 per linear foot (60" Casing)
Cost Change \$1,463.00 per linear foot (66" Casing)

If you have any questions or concerns, please feel free to call me at (903) 809-3511

Best Regards,

A handwritten signature in blue ink, appearing to read "Pate Easterling", is written over a light blue horizontal line.

Pate Easterling

Charro Boring Inc

charrosortiz0922@yahoo.com

Estimate

ADDRESS

David Latham
Belt Construction Inc.

ESTIMATE # 1271

DATE 08/15/2019

EXPIRATION DATE 11/15/2019

ACTIVITY	QTY	RATE	AMOUNT
Broken arrow / oklahoma 78" BORE	165	1,250.00	206,250.00
78"x 165' LF drybore SS.			
We need 20' of 1" or 7/8" x 78" casing for this bore lead pipe.			
72" bores 72" x 204' LF drybore SS 2 Bores.	204	864.00	176,256.00
We need 20' of 1" or 7/8" x 72" casing for lead pipe.			
66" bore 66"x 85' LF drybore SS	85	792.00	67,320.00
We need 20' of 1" or 7/8" x 66" casing for lead pipe.			

Charro boring inc

Price include:

pilot tube

Pilot tube attachments 72" and 78"

Push rings

36" casing

Costum 78" augers

Extra bore pits and shoring.

2 bore pits for 72" and 78" bores (begin and receiving)

Shoring

Mobilization

Excavator for boring operations.

TOTAL

\$449,826.00

Belt construction inc. Responsibility

Spoil haul off (if needed), staking, Pothole existing utilities, grout (if needed),

ground or dich water more the 20 gpm

Any fees or permits, any additional insurance, Casing pipe, traffic control, gravel for bore pits, help with movilization on the job site, we need 20' of 1" or 7/8" casing

For each bore lead pipe.

NOTA:

Part on the Increase on the price are because we up size the augers
And we gone to pay more rent.

We need also 5'x 72"x 1" casing
And 5'x 78"x 1" casing
For pilot tube.

If you have any questions please call
José Ortiz (817) 932-3488

Accepted By

Accepted Date



2507 E. Broad
Texarkana, AR 71854
Office: 870-772-7216
Fax: 870-772-7233

Submittal Review Request

To: Tim Robins
City of Broken Arrow, OK
485 N Poplar Ave
Broken Arrow, OK 74012

From: Kyle Bass
Belt Construction, Inc.
2507 E Broad St
Texarkana, AR 71854

Project: County Line Trunk Sewer Phase 1
Project No: S.1609
Owner: City of Broken Arrow, OK
Contractor: Belt Construction, Inc.

Engineer: City of Broken Arrow, OK
485 N Poplar Ave
Broken Arrow, OK 74012

Submittal No. 9.2

Submittal Type:

Full

☒

Partial

☐

Description: Steel Casing

Supplier: Pittsburgh Pipe

Submittal Date: 9/5/2019

Approved ☐

Approved as Noted ☐

Not Approved ☐

Revise and Resubmit ☐

Engineers Comments:

"Certification Statement: By this submittal, I hereby represent that I have determined and verified all field measurements, field construction criteria, materials, dimensions, catalog numbers and similar data and I have checked and coordinated each item with other applicable approved shop drawings and all Contract requirements"

Submitted By:

A handwritten signature in blue ink, appearing to read "Kyle Bass", is written over a horizontal line.

Belt Construction, Inc.

Date: 9/5/2019

Certification

05/14/2019

BELT CONSTRUCTION
2507 EAST BROAD ST
TEXARKANA, AR 71854

ATTN: Pate Easterling

Project: County Line Trunk Sewer Ph 1
Broken Arrow OK
Owner: CITY OF BROKEN ARROW
Engineer: Professional Engineering Consultants
Pittsburgh Pipe Inquiry #00146419

This is to certify that the 165.00 F of 78" O.D. x .500" nominal wall steel pipe furnished on the above referenced project meets or exceeds the yield and tensile strengths of ASTM Specification A139 Grade B (no hydro), which carries a minimum yield strength of 35,000 PSI, is of domestic manufacture



Donald Carosello
Sales Manager



Pittsburgh Pipe

2331 Hampton Ave.
St. Louis, MO 63139

Note: Material furnished for this requirement will have 1 to 3 midwelds per piece.

Certification

05/14/2019

BELT CONSTRUCTION
2507 EAST BROAD ST
TEXARKANA, AR 71854

ATTN: Pate Easterling

Project: County Line Trunk Sewer Ph 1
Broken Arrow OK
Owner: CITY OF BROKEN ARROW
Engineer: Professional Engineering Consultants
Pittsburgh Pipe Inquiry #00146419

This is to certify that the 205.00 F of 72" O.D. x .500" nominal wall steel pipe furnished on the above referenced project meets or exceeds the yield and tensile strengths of ASTM Specification A139 Grade B (no hydro), which carries a minimum yield strength of 35,000 PSI, is of domestic manufacture



Donald Carosello
Sales Manager



Pittsburgh Pipe

2331 Hampton Ave.
St. Louis, MO 63139

Note: Material furnished for this requirement will have 1 to 3 midwelds per piece.

Certification

05/14/2019

BELT CONSTRUCTION
2507 EAST BROAD ST
TEXARKANA, AR 71854

ATTN: Pate Easterling

Project: County Line Trunk Sewer Ph 1
Broken Arrow OK
Owner: CITY OF BROKEN ARROW
Engineer: Professional Engineering Consultants
Pittsburgh Pipe Inquiry #00146419

This is to certify that the 85.00 F of 66" O.D. x .500" nominal wall steel pipe furnished on the above referenced project meets or exceeds the yield and tensile strengths of ASTM Specification A139 Grade B (no hydro), which carries a minimum yield strength of 35,000 PSI, is of domestic manufacture



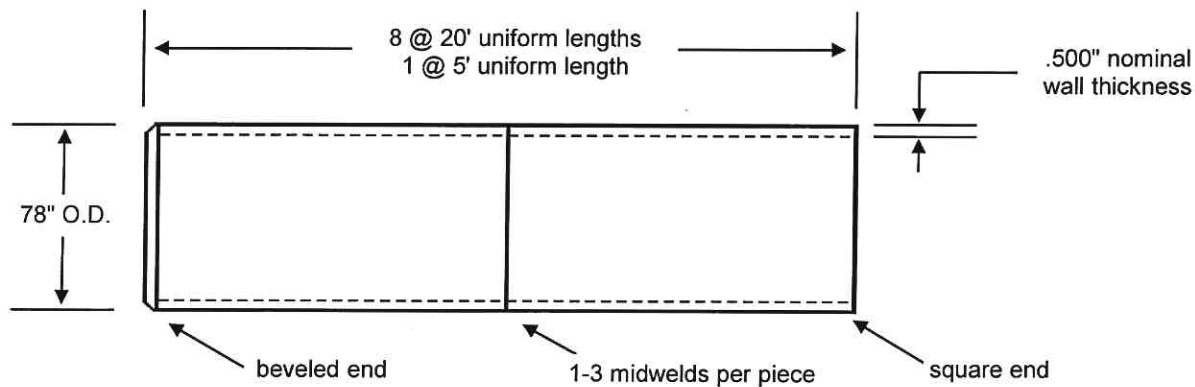
Kevin Davidson
Sales Manager



Pittsburgh Pipe

2331 Hampton Ave.
St. Louis, MO 63139

Note: Material furnished for this requirement will have 1 to 3 midwelds per piece.



Type: Rolled and Welded

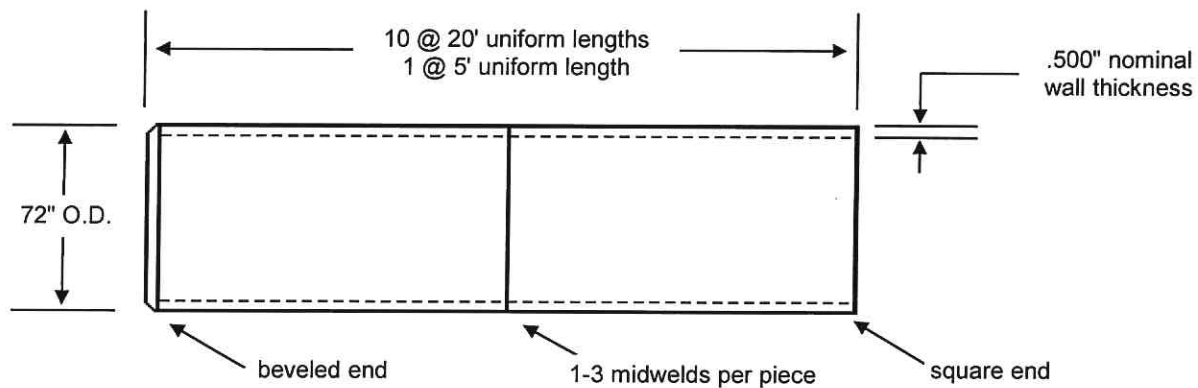
Interior: Bare

Exterior: Bare

Weight: Approx. 414.24 lbs. per foot

Notes: Steel casing pipe certified to meet or exceed the yield and tensile strengths of ASTM Specification A139 Grade B (no hydro), which carries a minimum yield strength of 35,000 P.S.I., and is of domestic manufacture.

Project:			County Line Trunk Sewer Phase 1		
			Broken Arrow, OK		
Owner:			City of Broken Arrow		
Engineer:			Professional Engineering Consultants		
Contractor:			Belt Construction		
revisions			 Pittsburgh Pipe / TDI 2331 Hampton Ave St Louis, MO 63139 800-325-2653		
no	date	by			
1					
2					
3					
4					
5			drawn by LLM	scale NONE	material STEEL PIPE
6			checked 48	date 08 22 19	drawing no
			traced —	approved —	BEL718.146419.1




Type: Rolled and Welded

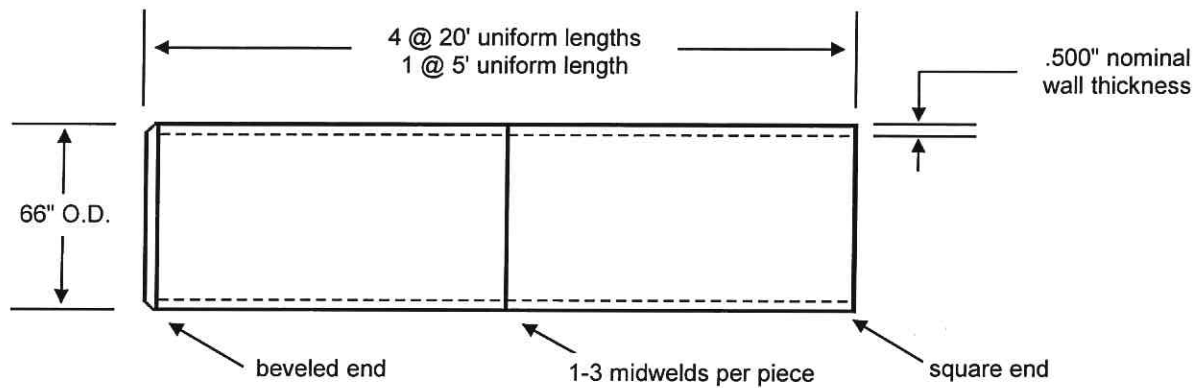
Interior: Bare

Exterior: Bare

Weight: Approx. 382.17 lbs. per foot

Notes: Steel casing pipe certified to meet or exceed the yield and tensile strengths of ASTM Specification A139 Grade B (no hydro), which carries a minimum yield strength of 35,000 P.S.I., and is of domestic manufacture.

Project:			County Line Trunk Sewer Phase 1		
			Broken Arrow, OK		
Owner:			City of Broken Arrow		
Engineer:			Professional Engineering Consultants		
Contractor:			Belt Construction		
revisions			 Pittsburgh Pipe / TDI 2331 Hampton Ave St Louis, MO 63139 800-325-2653		
no	date	by			
1					
2					
3					
4					
5			drawn by LLM	scale NONE	material STEEL PIPE
6			checked 48	date 08 22 19	drawing no
			traced —	approved —	BEL718.146419.2



Type: Rolled and Welded

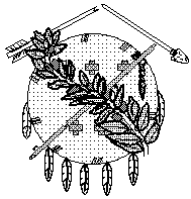
Interior: Bare

Exterior: Bare

Weight: Approx. 350.10 lbs. per foot

Notes: Steel casing pipe certified to meet or exceed the yield and tensile strengths of ASTM Specification A139 Grade B (no hydro), which carries a minimum yield strength of 35,000 P.S.I., and is of domestic manufacture.

Project:			County Line Trunk Sewer Phase 1		
			Broken Arrow, OK		
Owner:			City of Broken Arrow		
Engineer:			Professional Engineering Consultants		
Contractor:			Belt Construction		
revisions			 Pittsburgh Pipe / TDI 2331 Hampton Ave St Louis, MO 63139 800-325-2653		
no	date	by			
1					
2					
3					
4					
5			drawn by LLM	scale NONE	material STEEL PIPE
6			checked 48	date 08 22 19	drawing no
			traced —	approved —	BEL718.146419.3



City of Broken Arrow

Request for Action

File #: 19-1228, Version: 1

**Broken Arrow Municipal Authority
Meeting of: 10-1-19**

Title:

Approval of and authorization to execute Change Order #3 with Walters Morgan Construction, Inc. for Construction Contract 175436; Verdigris River Water Treatment Plant Pretreatment Basin Expansion

Background:

Over the past three years of operation of the Verdigris River Water Treatment Plant, the raw water quality during the warm weather months has created challenges with producing settled water quality within turbidity goals for optimum membrane filtration operation. The purpose of this project will provide improvements to the pretreatment basin. The project consists of construction of two (2) rapid mix basins, two (2) train flocculation basins with plate settlers, a residual collection and pumping system and modifications to the chemical feed storage and pumping system and all appurtenances. The project was advertised for bid on July 23, 2018. Bids were opened on August 14, 2018, with the lowest responsible bidder being Walters-Morgan Construction, Inc., with a Base Bid of \$6,702,000.00, Alternate A of \$74,000, Alternate B of \$57,000 for a Total Lump Sum Bid of \$6,833,000. A Notice to Proceed was issued to the contractor on August 8th, 2018.

This Change Order #3 addresses the following additions to the contract:

Total Number of Days Added by this Change Order:

- (25) Due to the changes of work within the project, the contract shall be extended by 25 calendar days.

CO3-1 - Cost Proposal No. 5 - Per directive within RFI #17 as directed by the EOR and BAMA, the contractor is to add SS disconnects, conduit, and wire such to provide power from the New MCC4 within the new electrical building as part of the new project. The associated costs are summarized within the attached proposal and are inclusive of all applicable costs and markups.

CO3-2 - Cost Proposal No. 6 - As directed by BAMA the contractor is to add approximately 20 feet of 4 foot wide and 6 inch thick, installed per plan sections, along the bottom of the NE corner of the new PT basin between the bottom of the new stairs and the south edge of the driveway. The associated costs are summarized within the attached proposal and are inclusive of all applicable costs and markups.

CO3-3 - Cost Proposal No. 7 - Per directives within RFI #23 & #27, the contractor is to add heat trace to the sludge lines on the south end of the PT basin and heat trace on the ACH chemical feed lines from where the exit the chemical trench to the face of the North wall on the PT basin. Within this change proposal circuits are to be added to supply power to the new heat trace. The associated costs are summarized within the attached proposal and are inclusive of all applicable costs and markups.

CO3-4 - Cost Proposal No. 8 - Per directive within RFI #36 & directives within the progress meeting #6, the contractor is to provide reusable insulation blankets for the (4) air release valves at the sludge pump piping and provide additional said blankets to match the existing installation at the existing sludge pump building. Additionally (2) more blankets shall be provided for the shut off valves on the ACH chemical feed lines. The associated costs are summarized within the attached proposal and are inclusive of all applicable costs and markups.

CO3-5 - Cost Proposal No. 9 - Per directive by BAMA within progress meeting #6, shall reimburse the contractor for additional costs due to open cutting the area south of the existing PT basin to allow for investigation of a potential water leak from existing PT basin or 48" SW line. In addition to these costs, rental equipment costs for equipment required to service the PT basin during construction shall be shared with BAMA. The associated costs are summarized within the attached proposal and are inclusive of all applicable costs and markups.

CO3-6 - Cost Proposal No. 11 - Per directive by BAMA, the contractor is to, through use of mechanical pumping methods, lower and maintain the water levels within the eastern reservoir such to allow for the construction of the new PT basin headwall and new intake lines. The associated costs are summarized within the attached proposal and are inclusive of all applicable costs and markups.

CO3-7 - Cost Proposal No. 12 - Per directive within RFI #21, the contract is to be credited the associated cost reductions due to the deletion of the associated fiber conduit as noted within the RFI. The associated cost reductions are summarized within the attached proposal and are inclusive of all applicable costs and markups.

CO3-8 - Cost Proposal No. 5 - Per directive by BAMA, the contractor is not to cementitious grout rub the exterior of the new PT basin. The contract is to be credited this associated original costs. The associated reductive costs are summarized within the attached proposal and are inclusive of all applicable costs and markups.

The additional cost associated with these changes is as follows:

Previous Change Orders:	\$88,372.15
This Change Order:	\$37,467.59
Total Cost of Change Orders:	\$125,839.74
Original Contract Amount:	\$6,833,000.00
Revised Contract Amount:	\$6,958,839.74
Percent Change in Contract:	1.29%
Applicable to Comp. Bid Act:	2.13%

Cost: \$37,467.59

Funding Source: OWRB FAP Loan and Utilities Operations Fund

Requested By: Kenneth D. Schwab, P.E., CFM, Assistant City Manager - Operations

Approved By: City Manager's Office

Attachments: 175436 Change Order #3

Recommendation:

Approve and authorize execution of Change Order CO3 with Walters Morgan Construction, Inc. for the construction contract 175436; Verdigris River Water Treatment Plant Pretreatment Basin Expansion

Contract Change Order # 3

Project Name:	<u>Verdigris Water Treatment Plant Pretreatment Basin Expansion</u>	Project Number:	<u>175436</u>
Project Location:	<u>Verdigris Water Treatment Plant</u>	Date of Application:	<u>Tuesday, September 24, 2019</u>
Contractor:	<u>Walters Morgan Construction, Inc.</u>	Submitted By:	<u>Jim Perkins</u>

Summary of Change in Scope of Work

The following scope of work consisting of work location, work description, established quantities, and timeline for completion has been reviewed and agreed upon by the contractor, the origin funding department, and the Engineering and Construction Department.

Change of Work Items Included in this Change Order:

- 1) Cost Proposal No. 5 - Per directive within RFI #17 as directed by the EOR and BAMA, the contractor is to add SS disconnects, conduit, and wire such to provide power from the New MCC4 within the new electrical building as part of the new project. The associated costs are summarized within the attached proposal and are inclusive of all applicable costs and markups.
- 2) Cost Proposal No. 6 - As directed by BAMA the contractor is to add approximately 20 feet of 4 foot wide and 6 inch thick, installed per plan sections, along the bottom of the NE corner of the new PT basin between the bottom of the new stairs and the south edge of the driveway. The associated costs are summarized within the attached proposal and are inclusive of all applicable costs and markups.
- 3) Cost Proposal No. 7 - Per directives within RFI #23 & #27, the contractor is to add heat trace to the sludge lines on the south end of the PT basin and heat trace on the ACH chem feed lines from where the exit the chemical trench to the face of the North wall on the PT basin. Within this change proposal circuits are to be added to supply power to the new heat trace. The associated costs are summarized within the attached proposal and are inclusive of all applicable costs and markups.
- 4) Cost Proposal No. 8 - Per directive within RFI #36 & directives within the progress meeting #6, the contractor is to provide reusable insulation blankets for the (4) air release valves at the sludge pump piping and provide additional said blankets to match the existing installation at the existing sludge pump building. Additionally (2) more blankets shall be provided for the shut off valves on the ACH Chem Feed lines. The associated costs are summarized within the attached proposal and are inclusive of all applicable costs and markups.
- 5) Cost Proposal No. 9 - Per directive by BAMA within progress meeting #6, shall reimburse the contractor for additional costs due to open cutting the area south of the existing PT basin to allow for investigation of a potential water leak from existing PT basin or 48" SW line. In addition to these costs, rental equipment costs for equipment required to service the PT basin during construction shall be shared with BAMA. The associated costs are summarized within the attached proposal and are inclusive of all applicable costs and markups.
- 6) Cost Proposal No. 11 - Per directive by BAMA, the contractor is to, through use of mechanical pumping methods, lower and maintain the water levels within the eastern reservoir such to allow for the construction of the new PT basin headwall and new intake lines. The associated costs are summarized within the attached proposal and are inclusive of all applicable costs and markups.
- 7) Cost Proposal No. 12 - Per directive within RFI #21, the contract is to be credited the associated cost reductions due to the deletion of the associated fiber conduiting as noted within the RFI. The associated cost reductions are summarized within the attached proposal and are inclusive of all applicable costs and markups.
- 8) Cost Proposal No. 5 - Per directive by BAMA, the contractor is not to cementitious grout rub the exterior of the new PT basin. The contract is to be credited this associated original costs. The associated reductive costs are summarized within the attached proposal and are inclusive of all applicable costs and markups.

Change in Contractual Project Time:

- 1) 2) 3) 6) Due to the noted changes of work within the project, the contract shall be extended by 25 calendar days.

Plan Sheets or Additional Documents Attached: ☒ Yes ☐ No ☐ Other: _____

**Public Contract
Application for
Contractual Changes**

Work Order Quantities

Item#	(Spec)	Item Description	Units	Price	Quantity	Total Amount
CO3-1		PR-5 - Power for Sludge Valves	LS	\$ 4,642.82	1	\$ 4,642.82
CO3-2		PR-6 - Sidewalk North End of PT Basin	LS	\$ 1,445.73	1	\$ 1,445.73
CO3-3		PR-7: Power and Heat Trace Additional	LS	\$ 17,641.88	1	\$ 17,641.88
CO3-4		PR-8: Removable Blankets	LS	\$ 3,875.19	1	\$ 3,875.19
CO3-5		PR-9: Open Cut 48" SW Line	LS	\$ 4,559.77	1	\$ 4,559.77
CO3-6		PR-11: Lagoon Pumping Final	LS	\$ 24,965.01	1	\$ 24,965.01
CO3-7		PR-12: EMC Credit for Ductbank Reroute	LS	\$ (15,088.92)	1	\$ (15,088.92)
CO3-8		PR-13: Rubbing PT Basin Credit	LS	\$ (4,573.89)	1	\$ (4,573.89)
Total Change Cost:						\$ 37,467.59

Summary of Project Costs

Total Previous Change Orders:	\$ 88,372.15	Original Contract Amount:	\$ 6,833,000.00
Current Change Order:	\$ 37,467.59	Amended Contract Amount:	\$ 6,958,839.74
Total Cost of Change Orders:	\$ 125,839.74	Percent Change in Contract:	1.29%
Total Cost Applicable to CBA:	\$ 145,502.55	Percent Change Applicable to CBA:	2.13%

Change Order Authorization

Change Order # <u>3</u> in the sum of: \$ <u>37,467.59</u>	has been reviewed by all parties and is recommended for approval by:	
Contractor Submitting Change Order:	Name	Signature Date
Construction Division Manager:	Timothy S Robins, PE	Name Signature Date
Director of Engineering & Construction:	Michael Kyser, PE	Name Signature Date
Assistant City Manager - Operations:	Kenneth D Schwab, PE	Name Signature Date
City Manager:	Michael Spurgeon	Name Signature Date

This Change is Executed Through:

- ☐ This change to the contract documents is authorized by the City Manager's authority in accordance with the applicable state statutes and COBA Code of Ordinances.
or
☒ This change to the contract documents was approved at the City Council/BAMA meeting held on : Tuesday, October 1, 2019

CHANGE PROPOSAL NO. 5

WALTERS-MORGAN CONSTRUCTION, INC.
 WATER TREATMENT PLANT IMPROVEMENTS
 VERDIGRIS RIVER WTP - PRETREATMENT BASIN

REFERENCE RFI #17
 ENGINEER # 10060891
 OWNER # 175436

JOB NO. 218-09
 DATE 23-May-19

DESCRIPTION: Add SS disconnects, conduit, and wire to provide power from the New MCC4 in the new Electrical Building per direction from Engineer in RFI #17 response.

Item Description	Qty	Unit	Labor Unit \$	Labor Total	Mat Unit \$	Mat Total	Sub Unit \$	Sub Total	Equip Unit \$	Equip Total	Total
EMC Electrical	1	ls	0.00	0.00	0.00	0.00	3960.00	3960.00	0.00	0.00	3960.00
Supt Coordination of changes	2	hr	48.00	96.00	0.00	0.00	0.00	0.00	0.00	0.00	96.00
		ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Direct Cost Subtotals				\$96.00		\$0.00		\$3,960.00		\$0.00	\$4,056.00
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Payroll Taxes, Insurance and Benefits (41%)				\$39.36							\$39.36
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SUBTOTAL with PT&I											\$4,095.36
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Contractor's Fee (15%)											\$14.40
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Fee on Subcontractor (5%)											\$198.00
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SUBTOTAL INCLUDING FEE											\$4,307.76
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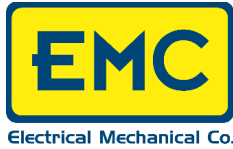
Jobsite G&A Expense on Adds (6.5%)											\$280.00
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SUBTOTAL W/O BOND											\$4,587.76
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Bonds & Insurance (1.2%)											\$55.05
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CHANGE TOTAL WITH BOND											\$4,642.82
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ADDITIONAL TIME REQUESTED:	Four (4) Calendar Days
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2211 East 6th Street
Tulsa, OK 74104
Phone: 918-585-3640
Fax: 918-585-3683

CHANGE ORDER REQUEST

DATE: May 20, 2019
TO: Jim Perkins/Walters-Morgan Construction, Inc.
FROM: Mike Ivey
PROJECT: Verdigris River WTP – Pretreatment Basin Expansion
Subject: **480V Disconnects for PV3017 and PV3019; Reference RFI #17**

Jim,

EMC can add SS disconnects and associated material to provide 3Ø 480V power for PV3017 and PV3019 (per the Electrical Engineers comments) for an additional cost.

Electrical Engineers Comments...

“Valves PV3017 and PV3019 shall operate from 480V, 3 Phase power. Power shall be obtained from new MCC4 in the new Electrical Bldg. Each valve shall be powered from available spare 3P-20 amp circuit breakers located in MCC4. Each circuit shall consist of 3#10, #10G, 3/4" conduit. Furnish and install a NEMA 4X SST disconnect switch at each valve motor actuator, with liquid-tite flex conduit installed between disconnect switch and valve actuator.”

EMC can provide/perform the following...

1. Install conduit, wire, and NEMA 4XSS disconnect switches for PV3017 and PV3019 as directed by the Engineer.

Labor and material cost: **\$3960.00**

Please let me know if you have any questions...

Thank you,

Mike Ivey
479-381-1481

CHANGE PROPOSAL NO. 6

WALTERS-MORGAN CONSTRUCTION, INC.
 WATER TREATMENT PLANT IMPROVEMENTS
 VERDIGRIS RIVER WTP - PRETREATMENT BASIN

REFERENCE RFI #20
 ENGINEER # 10060891
 OWNER # 175436

JOB NO. 218-09
 DATE 23-May-19

DESCRIPTION: Add sidewlak from bottom of stairs at NE corner of PT basin to the North to the South edge of drive. Approxiamtely 20 foot by 4 foot wide and 6" thick with prepared subgrade, base coarse, forming, reinforcing, placing, finishing, and stripping.

Item Description	Qty	Unit	Labor Unit \$	Labor Total	Mat Unit \$	Mat Total	Sub Unit \$	Sub Total	Equip Unit \$	Equip Total	Total
Prep Subgrade	1	ls	75.00	75.00	0.00	0.00	0.00	0.00	25.00	25.00	100.00
Install Base Coarse	1	ls	50.00	50.00	50.00	50.00	0.00	0.00	25.00	25.00	125.00
Form, Place, Finish 80 SF Sidewlak	1	ea	440.00	440.00	300.00	300.00	0.00	0.00	0.00	0.00	740.00
		ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Direct Cost Subtotals				\$565.00		\$350.00		\$0.00		\$50.00	\$965.00
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Payroll Taxes, Insurance and Benefits (41%)				\$231.65							\$231.65
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SUBTOTAL with PT&I											\$1,196.65
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Contractor's Fee (15%)											\$144.75
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Fee on Subcontractor (5%)											\$0.00
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SUBTOTAL INCLUDING FEE											\$1,341.40
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Jobsite G&A Expense on Adds (6.5%)											\$87.19
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SUBTOTAL W/O BOND											\$1,428.59
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Bonds & Insurance (1.2%)											\$17.14
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CHANGE TOTAL WITH BOND											\$1,445.73
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ADDITIONAL TIME REQUESTED:	Two (2) Calendar Days
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SUBTOTAL	\$1,428.59
BOND / INSUR COST	\$17.14
TOTAL WITH BOND	\$1,445.73

CHANGE PROPOSAL NO. 7

WALTERS-MORGAN CONSTRUCTION, INC.
 WATER TREATMENT PLANT IMPROVEMENTS
 VERDIGRIS RIVER WTP - PRETREATMENT BASIN

REFERENCE RFI #23 & 27
 ENGINEER # 10060891
 OWNER # 175436

JOB NO. 218-09
 DATE 23-May-19

DESCRIPTION: Per responses to RFI #23 & 27, add heat trace to the sludge lines on the South end of the PT Basin and heat trace on the ACH chem feed lines from where the exit the chemical trench to the face of the North wall on the PT Basin. Attached is drawing showing location for sludge line heat trace and descriptions of heat trace type/thermostats/etc. that are being supplied. Power circuits are also being added to supply power to the heat trace under this change.

Item Description	Qty	Unit	Labor Unit \$	Labor Total	Mat Unit \$	Mat Total	Sub Unit \$	Sub Total	Equip Unit \$	Equip Total	Total
EMC Electric - Circuit/Power to Heat Trace	1	ls	0.00	0.00	0.00	0.00	7248.00	7248.00	0.00	0.00	7248.00
TIPS Insulation - Heat Trace Supply/Install	1	ls	0.00	0.00	0.00	0.00	8056.00	8056.00	0.00	0.00	8056.00
WMCI Supt Coordination	4	hr	48.00	192.00	0.00	0.00	0.00	0.00	0.00	0.00	192.00
		ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Direct Cost Subtotals				\$192.00		\$0.00		\$15,304.00		\$0.00	\$15,496.00
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Payroll Taxes, Insurance and Benefits (41%)				\$78.72							\$78.72
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SUBTOTAL with PT&I											\$15,574.72
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Contractor's Fee (15%)											\$28.80
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Fee on Subcontractor (5%)											\$765.20
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SUBTOTAL INCLUDING FEE											\$16,368.72
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Jobsite G&A Expense on Adds (6.5%)											\$1,063.97
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SUBTOTAL W/O BOND											\$17,432.69
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Bonds & Insurance (1.2%)											\$209.19
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CHANGE TOTAL WITH BOND											\$17,641.88
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ADDITIONAL TIME REQUESTED:				One (7) Calendar Days							
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2211 East 6th Street
Tulsa, OK 74104
Phone: 918-585-3640
Fax: 918-585-3683

"REVISED"
CHANGE ORDER REQUEST

DATE: May 21, 2019
TO: Jim Perkins/Walters-Morgan Construction, Inc.
FROM: Mike Ivey
PROJECT: Verdigris River WTP – Pretreatment Basin Expansion
Subject: **Heat Trace- Reference RFI# 023 and RFI# 027**

Jim,

EMC can provide the following items for the additional cost listed below...

1. Provide power for the 4" SL piping heat trace per RFI# 23: **\$2,334.00**
2. Provide power for the ACH piping heat trace per RFI# 27: **\$4,914.00**

Please let me know if you have any questions...

Thank you,

Mike Ivey
479-381-1481

Thermal Insulation Pipe Solution, Inc.

Estimate

10918 E 2nd St
Tulsa OK 74128

Date	Estimate #
5/18/2019	ET-2283

Name / Address
Walters Morgan Construction Inc. 2616 Tuttle Creek Blvd. Manhattan KS 66502



Customer Rep.	Terms
JIM PERKINS	Net 15

Item	Qty	Description	Total
1	1	<p>* VERDIGRIS RIVER WTP PTB EXPANSION* HEAT TRACE</p> <p>SCOPE OF WORK: WE PROPOSE TO FURNISH MATERIALS, LABOR, SUPERVISION AND ALL OTHER ESSENTIALS NECESSARY TO PROVIDE AND INSTALL THE HEAT TRACE.</p> <p>1) (200LF) SRL5-1CT, LOW TEMP SELF-REGULATING HEATING CABLE 2) (3) UMC, MULTI ENTRY CONNECTION/TEE/Slice KIT 3) (5) UES, ABOVE INSULATION END SEAL KIT 4) (4) EHTL-5, CAUTION LABEL (5 PER KIT) 5) (2) THR-L2S, NEMA 4X, AMBIENT SENSING THERMOSTAT ADDITIONAL 6) (2) THR-L2S, NEMA 4X, LINE SENSING THERMOSTAT 7) (2) UES, ABOVE INSULATION END SEAL KIT 8) (60LF) SRL5-1CT, LOW TEMP SELF-REGULATING HEATING CABLE</p>	8,056.00
			Sales Tax...
Thank you for giving us an the opportunity to estimate on your insulation needs!			Total

Phone #	Fax #	E-mail
918-872-9513	877-519-9531	info@tipsinsulation.com

Customer Signature

CHANGE PROPOSAL NO. 8

WALTERS-MORGAN CONSTRUCTION, INC.
 WATER TREATMENT PLANT IMPROVEMENTS
 VERDIGRIS RIVER WTP - PRETREATMENT BASIN

REFERENCE RFI #32 - Meeting Discussion
 ENGINEER # 10060891
 OWNER # 175436

JOB NO. 218-09
 DATE 23-May-19

DESCRIPTION: Per responses to RFI #32 and discussion in Progress Meeting #6, provide reusable insulation blankets for the 4 Air Release Valves at the Sludge pump piping and provide additional removable blankets to match the existing inatallation at the existing sludge pump piping. Also provide 2 removalbe blankets for shut off valves on the ACH Chem Feed lines at the North end of the PT Basin.

Item Description	Qty	Unit	Labor Unit \$	Labor Total	Mat Unit \$	Mat Total	Sub Unit \$	Sub Total	Equip Unit \$	Equip Total	Total
TIPS Insulation - Heat Trace Supply/Install	1	ls	0.00	0.00	0.00	0.00	3353.00	3353.00	0.00	0.00	3353.00
WMCI Supt Coordination	1	hr	48.00	48.00	0.00	0.00		0.00	0.00	0.00	48.00
		ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Direct Cost Subtotals				\$48.00		\$0.00		\$3,353.00		\$0.00	\$3,401.00
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Payroll Taxes, Insurance and Benefits (41%)				\$19.68							\$19.68
---	--	--	--	---------	--	--	--	--	--	--	---------

SUBTOTAL with PT&I											\$3,420.68
--------------------	--	--	--	--	--	--	--	--	--	--	------------

Contractor's Fee (15%)											\$7.20
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Fee on Subcontractor (5%)											\$167.65
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SUBTOTAL INCLUDING FEE											\$3,595.53
------------------------	--	--	--	--	--	--	--	--	--	--	------------

Jobsite G&A Expense on Adds (6.5%)											\$233.71
------------------------------------	--	--	--	--	--	--	--	--	--	--	----------

SUBTOTAL W/O BOND											\$3,829.24
-------------------	--	--	--	--	--	--	--	--	--	--	------------

Bonds & Insurance (1.2%)											\$45.95
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CHANGE TOTAL WITH BOND											\$3,875.19
------------------------	--	--	--	--	--	--	--	--	--	--	------------

ADDITIONAL TIME REQUESTED:	Zero (0) Calendar Days
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Thermal Insulation Pipe Solution, Inc.

10918 E 2nd St
Tulsa OK 74128

Estimate

Date	Estimate #
5/18/2019	ET-2293

Name / Address
Walters Morgan Construction Inc. 2616 Tuttle Creek Blvd. Manhattan KS 66502



Customer Rep.	Terms
JIM PERKINS	Net 15

Item	Qty	Description	Total
1	1	INSTALLATION AND CONSTRUCTION OF REMOVABLE BLANKETS FOR : a) 4 4" 150# VALVE b) 8 4" 90'S ELLBOWS c) 4 2" AIR RELEASE VALVE d) 2 3/4" FLANGE COVER 1" THICK 9# FIBERGLASS TEMP-MAT, INNER - 1750 SILICONE, OUTER - 1750 SILICONE, D-RINGS & STRAPS, FLAPS & VELCRO, SEWN CONSTRUCTION.	3,353.00
Sales Tax...			\$0.00
Thank you for giving us an the opportunity to estimate on your insulation needs!			Total \$2,353.00

Phone #	Fax #	E-mail
918-872-9513	877-519-9531	info@tipsinsulation.com

Customer Signature

CHANGE PROPOSAL NO. 9

WALTERS-MORGAN CONSTRUCTION, INC.
 WATER TREATMENT PLANT IMPROVEMENTS
 VERDIGRIS RIVER WTP - PRETREATMENT BASIN

REFERENCE Progress Meeting #6 Discussion
 ENGINEER # 10060891
 OWNER # 175436

JOB NO. 218-09
 DATE 23-May-19

DESCRIPTION: Per Progress Meeting #6 discussions, Owner would condier reibursement for open cutting the area South of Existing & New PT Basin to allow installation of the 48" SW Line due to excessive ground water not indicated to be present in contract docuemnts. In addition, acess was needed for valve maintenance while excavation was open and required rental of man lift. WMCI will waive Fee, Jobsite G&A expense, Equipment Expense, and requests to split cost of lift.

Item Description	Qty	Unit	Labor Unit \$	Labor Total	Mat Unit \$	Mat Total	Sub Unit \$	Sub Total	Equip Unit \$	Equip Total	Total
Boom Lift Rental	0.50	ls	0.00	0.00	974.41	487.21	0.00	0.00	0.00	0.00	487.21
WMCI Supt Coordination	1	ls	2850.00	2850.00	0.00	0.00		0.00	0.00	0.00	2850.00
		ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Direct Cost Subtotals				\$2,850.00		\$487.21		\$0.00		\$0.00	\$3,337.21
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Payroll Taxes, Insurance and Benefits (41%)				\$1,168.50							\$1,168.50
---	--	--	--	------------	--	--	--	--	--	--	------------

SUBTOTAL with PT&I											\$4,505.71
--------------------	--	--	--	--	--	--	--	--	--	--	------------

Contractor's Fee (15%)											\$0.00
-------------------------	--	--	--	--	--	--	--	--	--	--	--------

Fee on Subcontractor (5%)											\$0.00
---------------------------	--	--	--	--	--	--	--	--	--	--	--------

SUBTOTAL INCLUDING FEE											\$4,505.71
------------------------	--	--	--	--	--	--	--	--	--	--	------------

Jobsite G&A Expense on Adds (6.5%)											\$0.00
------------------------------------	--	--	--	--	--	--	--	--	--	--	--------

SUBTOTAL W/O BOND											\$4,505.71
-------------------	--	--	--	--	--	--	--	--	--	--	------------

Bonds & Insurance (1.2%)											\$54.07
--------------------------	--	--	--	--	--	--	--	--	--	--	---------

CHANGE TOTAL WITH BOND											\$4,559.77
------------------------	--	--	--	--	--	--	--	--	--	--	------------

ADDITIONAL TIME REQUESTED:	Zero (0) Calendar Days
----------------------------	--------------------------



BRANCH 681
10910 EAST 51ST STREET
TULSA OK 74146
918-748-8030
918-664-7325 FAX

Job Site
Address

VERDIGRIS WATER TREATMENT PLAN
6670 S 361ST EAST AVE
BROKEN ARROW OK 74014-6504

Office: 785-539-7513 Cell: 785-565-1176

2.1.360 1 MB 0.425 17425S21.p01 819196 1-1 0



WALTERS MORGAN CONSTRUCTION
2616 TUTTLE CREEK BLVD
MANHATTAN KS 66502-4479

RENTAL RETURN INVOICE

168561061-001

Customer # : 7209548
Invoice Date : 04/29/19
Rental Out : 04/25/19 08:00 AM
Rental In : 04/25/19 11:21 AM
UR Job Loc : 6670 S 361ST EAST AV
UR Job # : 67
Customer Job ID :
P.O. # : 218-09
Ordered By : BRAD ANGELTON
Reserved By : MICHAEL GOINS
Salesperson : PHILIP KEELEY

02-1809

Invoice Amount: \$1,040.17

Terms: Due Upon Receipt
Payment options: Contact our credit office 212-333-6600 Ext. 84858
REMIT TO: UNITED RENTALS (NORTH AMERICA), INC.
PO BOX 840514
DALLAS TX 75284-0514

RENTAL ITEMS:

Qty	Equipment	Description	Minimum	Day	Week	4 Week	Amount
1	54776-168	BOOM 65-70' TELESCOPIC Make: JLG Model: 660SJ Serial: 300164839 Meter out: 3110.60 Meter in: 3111.70	664.00		1552.00	3372.00	664.00

SALES/MISCELLANEOUS ITEMS:

Qty	Item	Price	Unit of Measure	Extended Amt.
1	ENVIRONMENTAL SERVICE CHARGE	[ENV/MCI] 12.210	EACH	12.21
4	DYED DIESEL	[DYEDDSL/MCI] 6.800	EACH	27.20
1	DELIVERY CHARGE	135.500	EACH	135.50
1	PICKUP CHARGE	135.500	EACH	135.50

Rental Subtotal: 664.00

Sales/Misc Subtotal: 310.41

Agreement Subtotal: 947.21

Fuel: 27.20

Tax: 65.76

Total: 1,040.17

COMMENTS/NOTES:

CONTACT: ERIC MURRAY
CELL#: 918-370-4235

RECEIVED
MAY 06 2019

BY:

Pay \$974.41

For City to Reach Valve for Maintenance

New wmc

Invoice Approval Page

Vendor: U2249 - UNITED RENTALS(NORTH AMERICA)

InvoiceNo: 168561061-001

Invoice Date: 04-29-2019 08:52:54 AM

Amount: 974.41

Comment: BOOM LIFT RENTAL

RECEIVED
05-09-2019 02:58:55 PM

JILL CONRAD

ENTERED
05-10-2019 09:31:43 AM

JILL CONRAD

REJECTED
05-20-2019 10:33:10 AM

JIM PERKINS

ENTERED
05-20-2019 10:40:24 AM

PAULA PEREZ

APPROVED
05-20-2019 05:34:28 PM

JIM PERKINS

REVIEWED
05-22-2019 09:25:27 AM

PAULA PEREZ

POSTED
05-22-2019 09:55:26 AM

PAULA PEREZ

REJECTED
05-22-2019 10:09:17 AM

PAULA PEREZ

ENTERED
05-22-2019 10:40:29 AM

PAULA PEREZ

APPROVED
05-22-2019 10:42:11 AM

PAULA PEREZ

REVIEWED
05-22-2019 10:46:54 AM

PAULA PEREZ

POSTED
05-22-2019 10:47:17 AM

PAULA PEREZ

WALTERS-MORGAN CONSTRUCTION, INC.
 WATER TREATMENT PLANT IMPROVEMENTS
 VERDIGRIS RIVER WTP - PRETREATMENT BASIN

REFERENCE Phone Discussions
 ENGINEER # 10060891
 OWNER # 175436

JOB NO. 218-09
 DATE 08-Aug-19

DESCRIPTION: Pump water from East Presed Basin (current water elevation of 613.50) into the West Presed Basin to bring the elevation of the East Presed Basin down to Elev. 600.00. Using 2 rented pumps and the Owners 6" pump. Preliminary CP included using Citys pump for the duration of pumping but City needed it to take down PT Basin for maintenance. Time and rent went over 1 week as planned so cost increased. Oversight by not factoring in all the travel and OT to check pumps over weekends and holiday in Prelim CP also increased cost for Final.

Item Description	Qty	Unit	Labor Unit \$	Labor Total	Mat Unit \$	Mat Total	Sub Unit \$	Sub Total	Equip Unit \$	Equip Total	Total
Pump/Hose/Fitting Rental - See Invoice	1.00	ea	0.00	0.00	9184.82	9184.82	0.00	0.00	0.00	0.00	9184.82
Fuel Rented Pumps and City Pump	1913	gal	0.00	0.00	2.45	4686.85		0.00	0.00	0.00	4686.85
WMCI Labor Tending - 85 hrs OT & 35 Straight time	120	Mhrs	38.52	4622.40	0.00	0.00	0.00	0.00	0.00	0.00	4622.40
		ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0	ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Direct Cost Subtotals \$4,622.40 \$13,871.67 \$0.00 \$0.00 \$18,494.07

Payroll Taxes, Insurance and Benefits (41%) \$1,895.18 \$1,895.18

SUBTOTAL with PT&I \$20,389.25

Contractor's Fee (15%) \$2,774.11

Fee on Subcontractor (5%) \$0.00

SUBTOTAL INCLUDING FEE \$23,163.36

Jobsite G&A Expense on Adds (6.5%) \$1,505.62

SUBTOTAL W/O BOND SUBTOTAL \$24,668.98

Bonds & Insurance (1.2%) BOND / INSUR COST \$296.03

CHANGE TOTAL WITH BOND TOTAL WITH BOND \$24,965.01

ADDITIONAL TIME REQUESTED: Ten (10) Calendar Days

**PUMP SOLUTIONS**

BRANCH 154
3650 N. MINGO VALLEY EXPWY
TULSA OK 74116
918-977-3700
918-622-7402 FAX

**RENTAL RETURN
INVOICE**

170952244-001



Job Site
Address

VERDIGRIS WATER TREATMENT PLAN
6670 S 361ST EAST AVE
BROKEN ARROW OK 74014-6504

Office: 785-539-7513 Cell: 785-565-1176

2.1414 1 MB 0.425 42216S21.p01 235522 1-2 0



WALTERS MORGAN CONSTRUCTION
2616 TUTTLE CREEK BLVD
MANHATTAN KS 66502-4479

Customer # : 7209548
Invoice Date : 07/15/19
Rental Out : 06/28/19 09:00 AM
Rental In : 07/08/19 09:00 AM
UR Job Loc : 6670 S 361ST EAST AV
UR Job # : 67
Customer Job ID : 02-1809 PR10
P.O. # : 218-09
Ordered By : BRAD ANGLETON
Reserved By : CLAYTON HONEYCUTT
Salesperson : JOSHUA SUCHER

Invoice Amount: \$15,233.70

Terms: Due Upon Receipt
Payment options: Contact our credit office 212-333-6600 Ext. 84876
REMIT TO: UNITED RENTALS (NORTH AMERICA), INC.
PO BOX 840514
DALLAS TX 75284-0514

RENTAL ITEMS:

Qty	Equipment	Description	Minimum	Day	Week	4 Week	Amount
1	NPPD104035	PUMP 10X8 VENTURI PRIME - DIESEL Make: CORNELL Model: 8NHTA-6090 Serial: 170975 Meter out: 5735.60 Meter in: 5764.80 Substituted for: PUMP 10X8 VAC ASSIST - DIESEL	1818.35	909.17	1818.35	4377.50	3,636.70
1	NPPD100054	PUMP 10X8 VENTURI PRIME - DIESEL Make: PIONEER Model: VP108S17-JD6090 Serial: 12712 Meter out: 9381.20 Meter in: 9381.20 9602.7 are actual hours	1818.35	909.17	1818.35	4377.50	3,636.70
9	538/2720	HOSE 8X20 TANK TRUCK - CAMLOCK	71.44	71.44	142.87	428.62	2,571.66
10	538/2730	HOSE 8X20 TANK TRUCK - BAUER	62.50	62.50	125.00	373.75	2,500.00
4	545/1105 8" MCL	STRAINERS (ALL SIZES)		7.00	15.00	45.00	120.00
1	545/1111	MISC FITTINGS 8X20 CAM HOSE	71.44	71.44	142.87	428.62	285.74
4	545/1111	MISC FITTINGS Trailer jack		7.00	15.00	45.00	120.00
4	545/1111	MISC FITTINGS Wheel chalk		7.00	15.00	45.00	120.00

Rental Subtotal: 12,990.80

SALES/MISCELLANEOUS ITEMS:

Qty	Item	Price	Unit of Measure	Extended Amt.
2	DELIVERY RENTAL CONTRACT Semi load to site	[DELIVERY/MCI] 230.000	EACH	460.00
1	ENVIRONMENTAL SERVICE CHARGE	[ENV/MCI] 99.000	EACH	99.00
1	PICKUP ON RENTAL CONTRACT 2 trucks at 230 a piece	[PICKUP/MCI] 460.000	EACH	460.00

Sales/Misc Subtotal: 1,019.00

Agreement Subtotal: 14,009.80

Tax: ~~1,223.90~~

Total: ~~15,233.70~~

COMMENTS/NOTES:

CONTACT: BRAD ANGLETON
CELL#: 785-565-1176

14,009.80

THIS INVOICE IS ISSUED SUBJECT TO THE TERMS AND CONDITIONS OF THE RENTAL AGREEMENT, WHICH ARE INCORPORATED HEREIN BY REFERENCE.
A COPY OF THE RENTAL AGREEMENT IS AVAILABLE UPON REQUEST.

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Page: 1



PUMP SOLUTIONS
 BRANCH 154
 3650 N. MINGO VALLEY EXPWY
 TULSA OK 74116
 918-977-3700
 918-622-7402 FAX

RECEIVED
 JUL 22 2019

RENTAL RETURN INVOICE

170952244-001



Job Site
 Address

VERDIGRIS WATER TREATMENT PLAN
 6670 S 361ST EAST AVE
 BROKEN ARROW OK 74014-6504

Office: 785-539-7513 Cell: 785-565-1176

2.1.414 1 MB 0.425 42216S21.p01 235522 1-2 0



WALTERS MORGAN CONSTRUCTION
 2616 TUTTLE CREEK BLVD
 MANHATTAN KS 66502-4479

Customer # : 7209548
 Invoice Date : 07/15/19
 Rental Out : 06/28/19 09:00 AM
 Rental In : 07/08/19 09:00 AM
 UR Job Loc : 6670 S 361ST EAST AV
 UR Job # : 67
 Customer Job ID: 02-1809 PRIO
 P.O. # : 218-09
 Ordered By : BRAD ANGLETON
 Reserved By : CLAYTON HONEYCUTT
 Salesperson : JOSHUA SUCHER

Invoice Amount: \$15,233.70

Terms: Due Upon Receipt
 Payment options: Contact our credit office 212-333-6600 Ext. 84876
REMIT TO: UNITED RENTALS (NORTH AMERICA), INC.
 PO BOX 840514
 DALLAS TX 75284-0514

RENTAL ITEMS:

Qty	Equipment	Description	Minimum	Day	Week	4 Week	Amount
1	NPPD104035	PUMP 10X8 VENTURI PRIME - DIESEL Make: CORNELL Model: 8NHTA-6090 Serial: 170975 Meter out: 5735.60 Meter in: 5764.80 Substituted for: PUMP 10X8 VAC ASSIST - DIESEL	1818.35	909.17	1818.35	4377.50	3,636.70
1	NPPD100054	PUMP 10X8 VENTURI PRIME - DIESEL Make: PIONEER Model: VP108S17-JD6090 Serial: 12712 Meter out: 9381.20 Meter in: 9381.20 9602.7 are actual hours	1818.35	909.17	1818.35	4377.50	3,636.70
9	538/2720	HOSE 8X20 TANK TRUCK - CAMLOCK	71.44	71.44	142.87	428.62	2,571.66
10	538/2730	HOSE 8X20 TANK TRUCK - BAUER	62.50	62.50	125.00	373.75	2,500.00
4	545/1105	STRAINERS (ALL SIZES) 8" MCL		7.00	15.00	45.00	120.00
1	545/1111	MISC FITTINGS 8X20 CAM HOSE	71.44	71.44	142.87	428.62	285.74
4	545/1111	MISC FITTINGS Trailer jack		7.00	15.00	45.00	120.00
4	545/1111	MISC FITTINGS Wheel chalk		7.00	15.00	45.00	120.00

Rental Subtotal: 12,990.80

SALES/MISCELLANEOUS ITEMS:

Qty	Item	Price	Unit of Measure	Extended Amt.
2	DELIVERY RENTAL CONTRACT Semi load to site	[DELIVERY/MCI] 230.000	EACH	460.00
1	ENVIRONMENTAL SERVICE CHARGE	[ENV/MCI] 99.000	EACH	99.00
1	PICKUP ON RENTAL CONTRACT 2 trucks at 230 a piece	[PICKUP/MCI] 460.000	EACH	460.00

Sales/Misc Subtotal: 1,019.00

Agreement Subtotal: 14,009.80
 Tax: 1,223.90
 Total: 15,233.70

COMMENTS/NOTES:

CONTACT: BRAD ANGLETON
 CELL#: 785-565-1176

14,009.80

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PUMP SOLUTIONS
BRANCH 154
3650 N. MINGO VALLEY EXPWY
TULSA OK 74116
918-977-3700
918-622-7402 FAX

RENTAL CREDIT MEMO

170952244-002

Job Site
Address

VERDIGRIS WATER TREATMENT PLAN
6670 S 361ST EAST AVE
BROKEN ARROW OK 74014-6504

Office: 785-539-7513 Cell: 785-565-1176

WALTERS MORGAN CONSTRUCTION
2616 TUTTLE CREEK BLVD
MANHATTAN KS 66502-4479

Customer # : 7209548
Credit Date : 07/31/19
Credit Inv : 170952244-001
UR Job Loc : 6670 S 361ST EAST AV
UR Job # : 67
Customer Job ID:
P.O. # : 218-09
Ordered By : BRAD ANGLETON
Reserved By : CLAYTON HONEYCUTT
Salesperson : JOSHUA SUCHER

Invoice Amount: \$4,310.71-

Terms: Due Upon Receipt
Payment options: Contact our credit office 212-333-6600 Ext. 84876
REMIT TO: UNITED RENTALS (NORTH AMERICA),INC.
PO BOX 840514
DALLAS TX 75284-0514

RENTAL ITEMS:

Qty	Equipment	Description	Minimum	Day	Week	4 Week	Amount
1	NPPD100054	PUMP 10X8 VENTURI PRIME - DIESEL Make: PIONEER Model: VP108S17-JD6090 Serial: 12712 Meter out: .00 Meter in: .00 Substituted for: PUMP 10X8 VAC ASSIST - DIESEL	1818.35	909.17	1818.35	4377.50	1,818.35-
9	538/2720	HOSE 8X20 TANK TRUCK - CAMLOCK	71.44	71.44	142.87	428.62	501.66-
10	538/2730	HOSE 8X20 TANK TRUCK - BAUER	62.50	62.50	125.00	373.75	1,350.00-
4	545/1105	STRAINERS (ALL SIZES)		7.00	15.00	45.00	60.00-
1	545/1111	MISC FITTINGS	71.44	71.44	142.87	428.62	55.74-
4	545/1111	MISC FITTINGS		7.00	15.00	45.00	60.00-
4	545/1111	MISC FITTINGS		7.00	15.00	45.00	60.00-

Rental Subtotal: 3,905.75-

SALES/MISCELLANEOUS ITEMS:

Qty	Item	Price	Unit of Measure	Extended Amt.
1	ENVIRONMENTAL SERVICE CHARGE Reason: INPUT ERROR CREDIT	[ENV/MCI] 36.360	EACH	36.36-

Sales/Misc Subtotal: 36.36-

Agreement Subtotal: 3,942.11-

Tax: 368.68-

Total: 4,310.71-

COMMENTS/NOTES:

CONTACT: BRAD ANGLETON
CELL#: 785-565-1176



BRANCH 154
3650 N. MINGO VALLEY EXPWY
TULSA OK 74116
918-977-3700
918-622-7402 FAX

RENTAL CREDIT MEMO

170952244-003

Job Site
Address

VERDIGRIS WATER TREATMENT PLAN
6670 S 361ST EAST AVE
BROKEN ARROW OK 74014-6504

Office: 785-539-7513 Cell: 785-565-1176

WALTERS MORGAN CONSTRUCTION
2616 TUTTLE CREEK BLVD
MANHATTAN KS 66502-4479

Customer # : 7209548
Credit Date : 08/07/19
Credit Inv : 170952244-001
UR Job Loc : 6670 S 361ST EAST AV
UR Job # : 67
Customer Job ID:
P.O. # : 218-09
Ordered By : BRAD ANGLETON
Reserved By : CLAYTON HONEYCUTT
Salesperson : JOSHUA SUCHER

Invoice Amount: \$965.42-

Terms: Due Upon Receipt
Payment options: Contact our credit office 212-333-6600 Ext. 84876
REMIT TO: UNITED RENTALS (NORTH AMERICA), INC.
PO BOX 840514
DALLAS TX 75284-0514

RENTAL ITEMS:

Qty	Equipment	Description	Minimum	Day	Week	4 Week	Amount
1	NPPD104035	PUMP 10X8 VENTURI PRIME - DIESEL Make: CORNELL Model: 8NHTA-6090 Serial: 170975 Meter out: 5735.60 Meter in: .00 Substituted for: PUMP 10X8 VAC ASSIST - DIESEL	1818.35	909.17	1818.35	4377.50	865.56-

SALES/MISCELLANEOUS ITEMS:

Qty	Item	Price	Unit of Measure	Extended Amt.
1	ENVIRONMENTAL SERVICE CHARGE Reason: INPUT ERROR CREDIT	[ENV/MCI]	EACH	17.31-

Rental Subtotal: 865.56-

Sales/Misc Subtotal: 17.31-

Agreement Subtotal: 882.87-

Tax: 82.55-

Total: 965.42-

COMMENTS/NOTES:

CONTACT: BRAD ANGLETON
CELL#: 785-565-1176

Invoice



PO Box 691140
Tulsa, OK 74169
Ph: 800-364-6457
Fax: 918-437-2251
www.timmonsoilcompany.com

Page 1/1
Invoice BI27508
Date 7/1/2019

Ship To: Walters-Morgan Construction
6517 S 360th E Ave
Broken Arrow OK 74014

*Bobtails*Transports*Loaner Tanks*Delivery*

24/7 Fuel Island Card System with
Clear Diesel (dual hose), Red Diesel,
87 No Ethanol & Diesel Exhaust Fluid

Bill To: Walters-Morgan Construction
2616 Tuttle Creek Blvd.
Manhattan KS 66502-4479

*Additives*Antifreezes*Aviation Oils*Bulk Products*
*Cleaners*Coolants*Cutting Oils*Floor Dry*Fuels*
*Gear Oils*Greases*Hydraulic Oils*Industrial Oils*
*Kerosene*Motor Oils*Transmission Oils*

02-1809 PR #10

Purch Order No.	Payment Terms	Site ID	Sales Rep	Cust ID	Order No.	Master No.
	1% 10/Net 30	TIMMONS	MIKE	WAL002		143,814
Item	Description	U/M	Quantity	Unit Price	Total	
1203RED	NA 1993 Fuel, Red Diesel - Off Road	Gallon	871.80	\$2.48354	\$2,165.15	

Thank you for your business!

A 1.5% finance charge will be assessed
On any and all past due unpaid charges.

Diesel contains no more than 15PPM
total sulphur content

Driver
Truck
Odometer

Subtotal
Tax ~~-\$125.58~~
Regulatory \$7.25
Total ~~-\$2,297.98~~
Received \$0.00
Balance Due ~~\$2,297.98~~

\$ 2,172.40

Invoice



PO Box 691140
Tulsa, OK 74169
Ph: 800-364-6457
Fax: 918-437-2251
www.timmonsoilcompany.com

Page 1/1
Invoice BI27608
Date 7/3/2019

Ship To: Walters-Morgan Construction
6517 S 360th E Ave
Broken Arrow OK 74014

*Bobtails*Transports*Loaner Tanks*Delivery*

24/7 Fuel Island Card System with
Clear Diesel (dual hose), Red Diesel,
87 No Ethanol & Diesel Exhaust Fluid

Bill To: Walters-Morgan Construction
2616 Tuttle Creek Blvd.
Manhattan KS 66502-4479

*Additives*Antifreezes*Aviation Oils*Bulk Products*
*Cleaners*Coolants*Cutting Oils*Floor Dry*Fuels*
*Gear Oils*Greases*Hydraulic Oils*Industrial Oils*
*Kerosene*Motor Oils*Transmission Oils*

02-1809 PR10

Purch Order No.	Payment Terms	Site ID	Sales Rep.	Cust ID	Order No.	Master No.
	1% 10/Net 30	TIMMONS	MIKE	WAL002	132672	144,785
Item	Description	U/M	Quantity	Unit Price	Total	
1203RED	NA 1993 Fuel, Red Diesel - Off Road	Gallon	315.50	\$2.44404	\$771.09	

Thank you for your business!

A 1.5% finance charge will be assessed
On any and all past due unpaid charges.

Diesel contains no more than 15PPM
total sulphur content

Driver
Truck
Odometer

Subtotal
Tax
Regulatory
Total
Received
Balance Due

~~\$44.72~~
\$7.25
~~\$823.06~~
\$0.00
~~\$823.06~~

778.34

Invoice



PO Box 691140
Tulsa, OK 74169
Ph: 800-364-6457
Fax: 918-437-2251
www.timmonsoilcompany.com

Page 1/1
Invoice B127719
Date 7/9/2019

Ship To: Walters-Morgan Construction
6517 S 360th E Ave
Broken Arrow OK 74014

*Bobtails*Transports*Loaner Tanks*Delivery*

24/7 Fuel Island Card System with
Clear Diesel (dual hose), Red Diesel,
87 No Ethanol & Diesel Exhaust Fluid

Bill To: Walters-Morgan Construction
2616 Tuttle Creek Blvd.
Manhattan KS 66502-4479

*Additives*Antifreezes*Aviation Oils*Bulk Products*
*Cleaners*Coolants*Cutting Oils*Floor Dry*Fuels*
*Gear Oils*Greases*Hydraulic Oils*Industrial Oils*
*Kerosene*Motor Oils*Transmission Oils*

02-1809

Purch Order No.	Payment Terms	Site ID	Sales Rep	Cust ID	Order No.	Master No.
	1% 10/Net 30	TIMMONS	MIKE	WAL002		144,759
Item	Description	U/M	Quantity	Unit Price	Total	
1203RED	NA 1993 Fuel, Red Diesel - Off Road	Gallon	727.30	\$2.41154	\$1,753.91	

Thank you for your business!

A 1.5% finance charge will be assessed
On any and all past due unpaid charges.

Diesel contains no more than 15PPM
total sulphur content

Driver	Subtotal	
Truck	Tax	\$101.73
Odometer	Regulatory	\$7.25
	Total	\$1,862.89
	Received	\$0.00
	Balance Due	\$1,862.89

Pay \$1761.16 after
deduct for tax

CHANGE PROPOSAL NO. 12

WALTERS-MORGAN CONSTRUCTION, INC.
 WATER TREATMENT PLANT IMPROVEMENTS
 VERDIGRIS RIVER WTP - PRETREATMENT BASIN

REFERENCE RFI #21
 ENGINEER # 10060891
 OWNER # 175436

JOB NO. 218-09
 DATE 28-May-19

DESCRIPTION: Per RFI #21 response Fiber is needed from Membrane Building to Electrical Building and use spare conduit to route fiber in ductbank outside. The fiber was covered by Bauman but there were no provisions for conduit inside the Membrane Building. This change proposal is for adding a 2" conduit for routing the fiber in the building.

Item Description	Qty	Unit	Labor Unit \$	Labor Total	Mat Unit \$	Mat Total	Sub Unit \$	Sub Total	Equip Unit \$	Equip Total	Total
EMC Electric	-1.00	ls	0.00	0.00	0.00	0.00	14200.00	-14200.00	0.00	0.00	-14200.00
		hr	48.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Direct Cost Subtotals \$0.00 \$0.00 (\$14,200.00) \$0.00 (\$14,200.00)

Payroll Taxes, Insurance and Benefits (41%) \$0.00 \$0.00

SUBTOTAL with PT&I (\$14,200.00)

Contractor's Fee (15%) \$0.00

Fee on Subcontractor (5%) (\$710.00)

SUBTOTAL INCLUDING FEE (\$14,910.00)

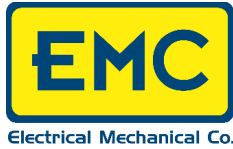
Jobsite G&A Expense on Adds (6.5%) \$0.00

SUBTOTAL W/O BOND (\$14,910.00)

Bonds & Insurance (1.2%) **BOND / INSUR COST** (\$178.92)

CHANGE TOTAL WITH BOND **TOTAL WITH BOND** (\$15,088.92)

ADDITIONAL TIME REQUESTED: Zero (0) Calendar Days



2211 East 6th Street
Tulsa, OK 74104
Phone: 918-585-3640
Fax: 918-585-3683

REQUEST FOR CHANGE

DATE: June 20th, 2019
TO: Jim Perkins/Walters-Morgan Construction, Inc.
FROM: Mike Ivey
PROJECT: Verdigris River WTP – Pretreatment Basin Expansion
Subject: **Power and Fiber Conduit Installation**

Jim,

EMC proposes a change to the plans for the power and fiber conduit installation from the existing electrical room in the Membrane building to the new electrical building at PTB2 (see proposed changes on plan sheets). This change would result in a credit to COBA...

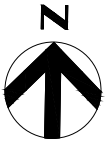
Reasons for proposed change to plans:

1. Proposed ductbank installation would not be in the way of future PTB3 installation on the southside of structure (*PTB2 and PTB3 could potentially be fed from a new service routed on this side*).
2. Proposed conduit installation in the Membrane building would result in more room for future projects.
3. Credit to COBA: **\$14,200.00**

Please let me know if you have any questions...

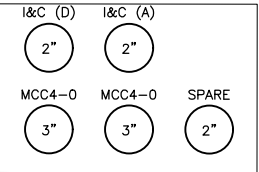
Thank you,

Mike Ivey
479-381-1481



GENERAL NOTES:

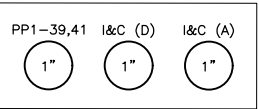
1. CONDUIT ROUTING IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE ALL ROUTING TO AVOID INTERFERENCES AND IS RESPONSIBLE FOR FIELD CHECKING AND MAKING ALL NECESSARY OFFSETS AS REQUIRED.



DUCTBANK SECTION 1

SCALE: NONE

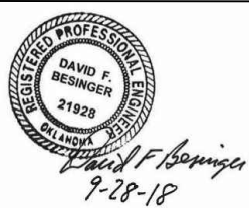
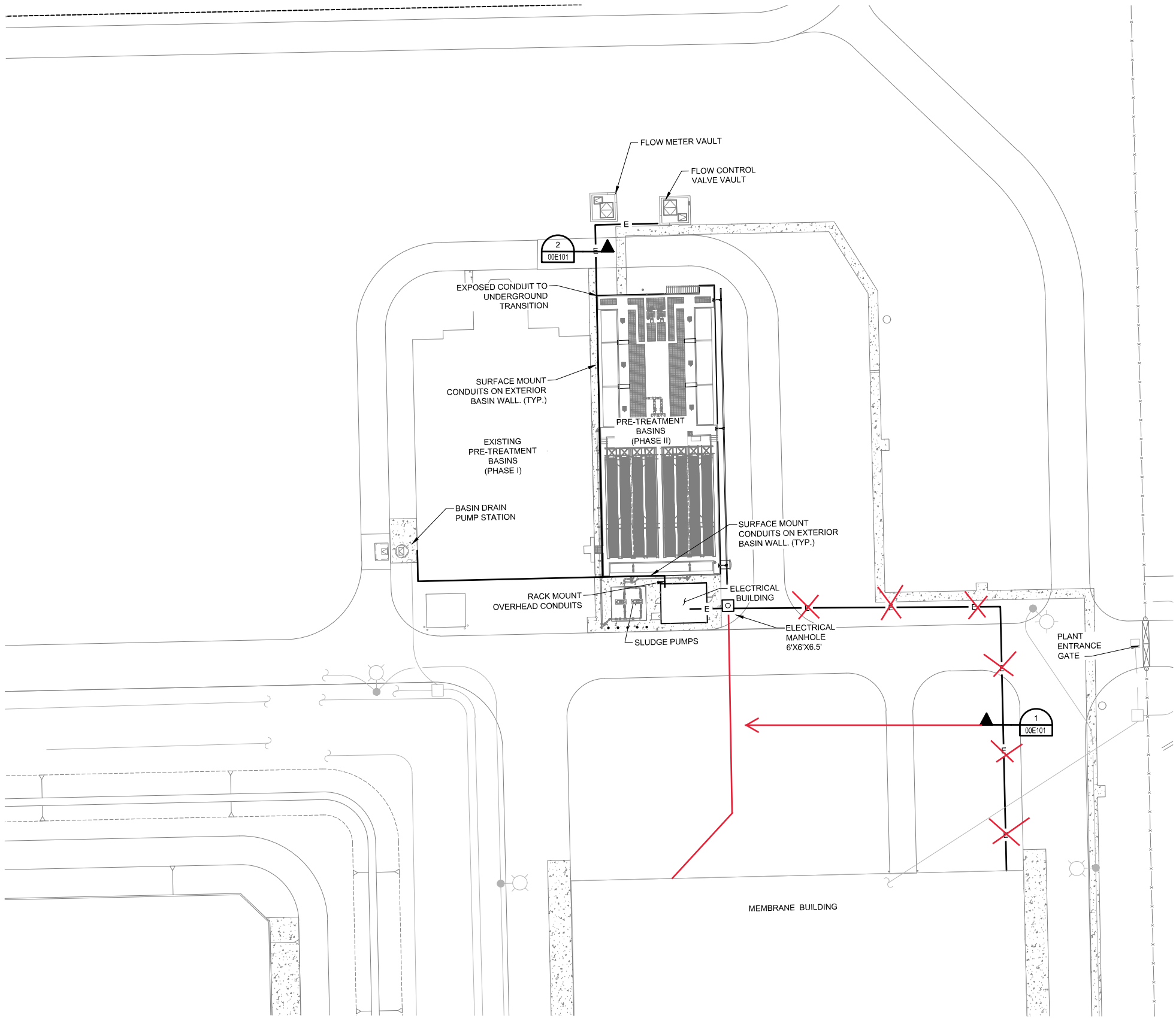
1
00E101



DUCTBANK SECTION 2

SCALE: NONE

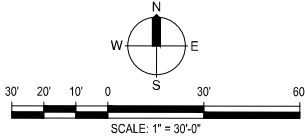
2
00E101



DATE	REVISIONS
-	-
-	-
-	-
9/28/2018	ISSUED FOR CONSTRUCTION



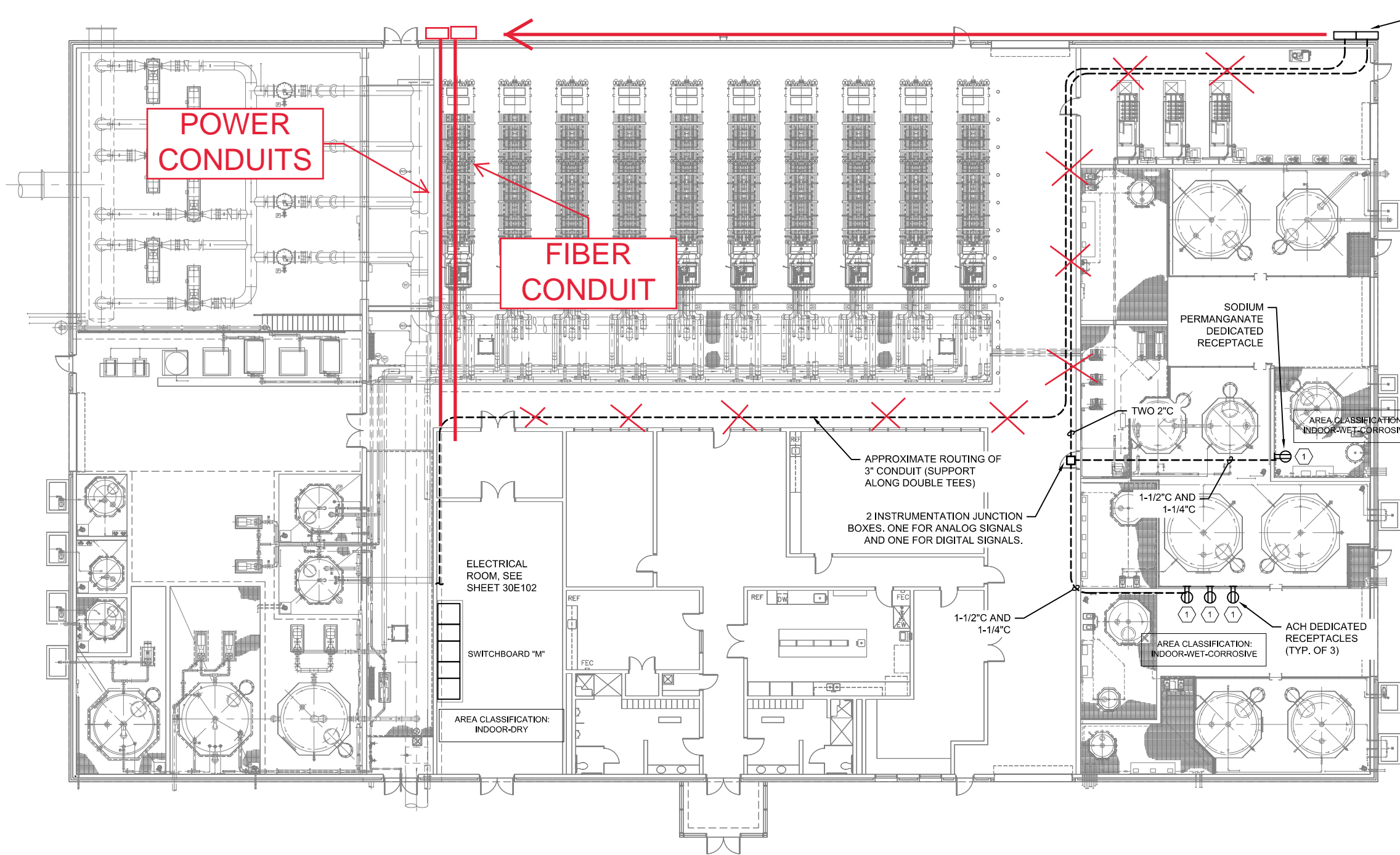
BROKEN ARROW
Municipal Authority



**VERDIGRIS RIVER WTP
PRETREATMENT
BASIN EXPANSION**

**GENERAL
ELECTRICAL
SITE PLAN**

PROFILE SCALE:	DESIGN	DATE	DRAFTED	DATE
HORZ. _____	OJ	10/18	OJ	10/18
VERT. _____	REVIEWED	DATE	APPROVED	DATE
	KT	10/18	DFB	10/18
DRAWING NAME: 00E101	SHEET OF	X X	PROJECT NO. 10060891	



NEMA 4X SST PULL BOX, SIZED AS REQUIRED. PROVIDE DIVIDERS TO SEPARATE I&C CIRCUITS FROM POWER CIRCUITS



KEYED NOTES - POWER & INSTRUMENTATION:

- 1 CIRCUIT GFI RECEPTACLE TO PANEL 'ML-4' INSIDE ELECTRICAL ROOM. UTILIZE ANY SPARE 20A CIRCUIT BREAKER ON ML-4. INSTALL RECEPTACLE NEAR INTEGRAL CONTROL PANELS.

SODIUM PERMANGANATE DEDICATED RECEPTACLE

AREA CLASSIFICATION: INDOOR-WET-CORROSIVE

TWO 2"C

1-1/2"C AND 1-1/4"C

ACH DEDICATED RECEPTACLES (TYP. OF 3)

AREA CLASSIFICATION: INDOOR-WET-CORROSIVE

1-1/2"C AND 1-1/4"C

APPROXIMATE ROUTING OF 3" CONDUIT (SUPPORT ALONG DOUBLE TEES)

2 INSTRUMENTATION JUNCTION BOXES. ONE FOR ANALOG SIGNALS AND ONE FOR DIGITAL SIGNALS.

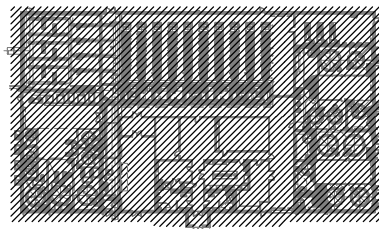
ELECTRICAL ROOM, SEE SHEET 30E102

SWITCHBOARD "M"

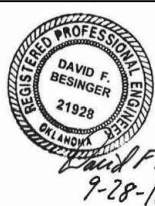
AREA CLASSIFICATION: INDOOR-DRY

MEMBRANE BUILDING FLOOR PLAN - ELECTRICAL (REFERENCE)

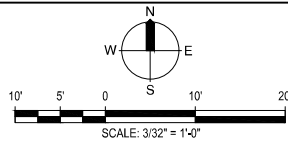
3/32" = 1'-0"



PLAN KEY



DATE	REVISIONS
9/28/2018	ISSUED FOR CONSTRUCTION



VERDIGRIS RIVER WTP
PRETREATMENT
BASIN EXPANSION

MEMBRANE BUILDING
ELECTRICAL
FLOOR PLAN

PROFILE SCALE:	DESIGN	DATE	DRAFTED	DATE
HORZ. _____	OJ	10/18	OJ	10/18
VERT. _____	REVIEWED	DATE	APPROVED	DATE
	KT	10/18	DFB	10/18
DRAWING NAME:	SHEET	OF	PROJECT NO.	
30E101	X	X	10060891	

CHANGE PROPOSAL NO. 13

WALTERS-MORGAN CONSTRUCTION, INC.
 WATER TREATMENT PLANT IMPROVEMENTS
 VERDIGRIS RIVER WTP - PRETREATMENT BASIN

REFERENCE Phone Discussions
 ENGINEER # 10060891
 OWNER # 175436

JOB NO. 218-09
 DATE 29-Jul-19

DESCRIPTION: Delete rubbing of exterior above grade Walls. Existing basin is not rubbed and new PT Basin finish looks much better than the existing basin.

Item Description	Qty	Unit	Labor Unit \$	Labor Total	Mat Unit \$	Mat Total	Sub Unit \$	Sub Total	Equip Unit \$	Equip Total	Total
WMCI Basin Rubbing Delete	-3,470	sf	0.55	-1908.50	0.30	-1041.00	0.00	0.00	0.10	-347.00	-3296.50
	0	ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0	ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0	ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0	ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Direct Cost Subtotals (\$1,908.50) (\$1,041.00) \$0.00 (\$347.00) (\$3,296.50)

Payroll Taxes, Insurance and Benefits (41%) (\$782.49) (\$782.49)

SUBTOTAL with PT&I (\$4,078.99)

Contractor's Fee (15% adds & 5% deducts) (\$164.83)

Fee on Subcontractor (5%) \$0.00

SUBTOTAL INCLUDING FEE (\$4,243.81)

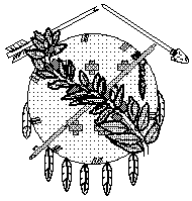
Jobsite G&A Expense on Adds (6.5%) (\$275.85)

SUBTOTAL W/O BOND (\$4,519.66)

Bonds & Insurance (1.2%) BOND / INSUR COST (\$54.24)

CHANGE TOTAL WITH BOND TOTAL WITH BOND (\$4,573.89)

ADDITIONAL TIME REQUESTED: Zero (0) Calendar Days



City of Broken Arrow

Request for Action

File #: 18-1463, **Version:** 1

Broken Arrow Municipal Authority
Meeting of: 10/01/2019

Title:

Ratification of the Claims list dated 09/27/2019

Background:

Council on September 3, 2019 approved Ordinance No. 3601 to allowing ratification of the claims list. On September 27, 2019 checks, V-Cards or ACH were processed for a total of \$2,853,976.61.

(Total Includes General Fund, BAMA and BAEDA)

A summary by fund:

Fund 20 (BAMA) \$1,025,156.02

Cost: \$1,025,156.02

Funding Source: Various departmental operating and capital budgets

Requested By: Cynthia S. Arnold, Finance Director

Approved By: City Manager's Office

Attachments: Claims list for September 27, 2019.

Recommendation: Ratify the Claims list dated 09/27/2019

FUND	020 BAMA	DATE DUE	VENDOR NO	VENDOR NAME	VOUCHER NO	I NVOI CE NO	ACCOUNT NO	AMOUNT	
5/23/2019	8143			DOMINO EQUIPMENT CO	PI 3042	TUL37336	020-5130-437.40-55 5/23/2019 TOTAL - CUMULATIVE TOTAL -	392.50 392.50 392.50	
6/04/2019	8143			DOMINO EQUIPMENT CO	PI 3043 PI 3044	TUL37426 TUL37426	020-5130-437.40-55 020-5130-437.70-17 6/04/2019 TOTAL - CUMULATIVE TOTAL -	437.96 651.00 1,088.96 1,481.46	
6/14/2019	2813			HILBILT SALES CORP ARKANSAS	PI 4230	112623	020-5400-434.60-20 6/14/2019 TOTAL - CUMULATIVE TOTAL -	1,200.00 1,200.00 2,681.46	* HELD *
7/01/2019	240			GRAINGER	PI 3677	9221010276	020-5410-435.60-45	511.32	
7/01/2019	257			SAFETY KLEEN CORP	PI 3022	79734126B	020-5120-437.40-55	209.80	
7/01/2019	6375			ATWOOD DISTRIBUTING LP	PI 3670	001745MM 062519	020-5305-438.60-23	25.99	
					PI 3673	001749MM 062719	020-5405-434.60-23	129.99	
					PI 3674	001750MM 062719	020-5410-435.60-23	99.98	
7/01/2019	6626			REXEL USA INC	PI 3375	S124949138001	020-0000-141.00-00	527.22	
7/01/2019	9825			BIO-CHEM INDUSTRIES INC.	PI 3666	A4045OK 041619	020-5410-435.60-24	4,928.60	
					PI 3684	A4085OK	020-5415-435.40-28	15,740.00	
7/01/2019	10851			ADG PC	PI 3665	15277 010719	020-5100-437.70-17 7/01/2019 TOTAL - CUMULATIVE TOTAL -	2,790.00 24,450.98 27,132.44	
7/02/2019	1443			SUNGLOW INCORPORATED	PI 3272	SU19230	020-0503-415.70-15 7/02/2019 TOTAL - CUMULATIVE TOTAL -	1,050.00 1,050.00 28,182.44	
7/03/2019	240			GRAINGER	PI 3486	9223519134	020-5405-434.60-23	288.00	
7/03/2019	9822			MORTON SALT INC	PI 3168	5401878860	020-5405-434.60-34	5,899.80	
7/03/2019	10051			BROWNS MFG & SALES	PI 3376	651281	020-0000-141.00-00 7/03/2019 TOTAL - CUMULATIVE TOTAL -	1,540.00 7,727.80 35,910.24	
7/08/2019	240			GRAINGER	PI 3487	9225091694	020-5405-434.60-24 7/08/2019 TOTAL - CUMULATIVE TOTAL -	810.74 810.74 36,720.98	
7/09/2019	9892			GOODYEAR COMMERCIAL TIRE	PI 3432 PI 3719	2541014165 2541014165	020-0000-141.00-00 020-5125-436.60-19 7/09/2019 TOTAL - CUMULATIVE TOTAL -	4,746.82 9.95 4,756.77 41,477.75	
7/10/2019	240			GRAINGER	PI 3680	9228517521	020-5410-435.60-45 7/10/2019 TOTAL - CUMULATIVE TOTAL -	212.55 212.55 41,690.30	
7/15/2019	9892			GOODYEAR COMMERCIAL TIRE	PI 3119 PI 3165	2541014205 2541014205	020-0000-141.00-00 020-5125-436.60-19 7/15/2019 TOTAL - CUMULATIVE TOTAL -	1,643.13 9.95 1,653.08 43,343.38	

FUND	020 BAMA	DATE	VENDOR	VENDOR	VOUCHER	I NVOI CE	ACCOUNT	AMOUNT
		DUE	NO	NAME	NO	NO	NO	
7/17/2019			7323	BEST BUY BUSINESS ADVANTAGE AC	PI 3681	3922764	020-5401-434.70-17	299.99
							7/17/2019 TOTAL -	299.99
							CUMULATI VE TOTAL -	43,643.37
7/19/2019			9892	GOODYEAR COMMERCIAL TI RE	PI 3120	2541014257	020-0000-141.00-00	2,373.41
					PI 3166	2541014257	020-5125-436.60-19	9.95
							7/19/2019 TOTAL -	2,383.36
							CUMULATI VE TOTAL -	46,026.73
7/22/2019			7894	INTERSTATE ELECTRIC CORPORATI O	PI 3117	176406	020-5415-435.60-41	4,280.00
							7/22/2019 TOTAL -	4,280.00
							CUMULATI VE TOTAL -	50,306.73
7/23/2019			240	GRAINGER	PI 3488	9241339556	020-5130-437.60-24	1,499.24
7/23/2019			9892	GOODYEAR COMMERCIAL TI RE	PI 3121	106837	020-0000-141.00-00	1,095.42
					PI 3167	106837	020-5125-436.60-19	79.85
							7/23/2019 TOTAL -	2,674.51
							CUMULATI VE TOTAL -	52,981.24
7/24/2019			8679	CORE & MAIN	PI 2962	807896/937235	020-0000-141.00-00	10,427.86
							7/24/2019 TOTAL -	10,427.86
							CUMULATI VE TOTAL -	63,409.10
7/27/2019			9825	BI O-CHEM INDUSTRIES I NC.	PI 3685	A4108OK	020-5415-435.40-28	15,740.00
							7/27/2019 TOTAL -	15,740.00
							CUMULATI VE TOTAL -	79,149.10
7/29/2019			240	GRAINGER	PI 3377	9247131528	020-0000-141.00-00	574.56
7/29/2019			8679	CORE & MAIN	PI 2963	913046	020-0000-141.00-00	1,915.19
7/29/2019			9825	BI O-CHEM INDUSTRIES I NC.	PI 3686	A4109OK	020-5410-435.60-34	1,805.40
							7/29/2019 TOTAL -	4,295.15
							CUMULATI VE TOTAL -	83,444.25
7/30/2019			6375	ATWOOD DISTRI BUTING LP	PI 3675	001768MM	020-5400-434.60-23	121.68-
					PI 3676	001769MM	020-5400-434.60-23	167.16-
7/30/2019			7803	P&K EQUI PMENT	PI 2950	3367742	020-0000-141.00-00	69.06
7/30/2019			9892	GOODYEAR COMMERCIAL TI RE	PI 2964	2541014345	020-0000-141.00-00	182.57
							7/30/2019 TOTAL -	37.21-
							CUMULATI VE TOTAL -	83,407.04
7/31/2019			371	J & R EQUI PMENT LLC	PI 3683	01P2238	020-5415-435.60-24	1,168.28
							7/31/2019 TOTAL -	1,168.28
							CUMULATI VE TOTAL -	84,575.32
8/01/2019			6375	ATWOOD DISTRI BUTING LP	PI 3458	001774	020-5305-438.60-23	1.98
					PI 3459	795546	020-5305-438.60-23	31.97
							8/01/2019 TOTAL -	33.96
							CUMULATI VE TOTAL -	84,609.27
8/02/2019			9892	GOODYEAR COMMERCIAL TI RE	PI 2966	2541014378	020-0000-141.00-00	2,738.55
					PI 3034	2541014378	020-5125-436.60-19	19.90
							8/02/2019 TOTAL -	2,758.45
							CUMULATI VE TOTAL -	87,367.72

FUND 020 BAMA	DATE DUE	VENDOR NO	VENDOR NAME	VOUCHER NO	INVOICE NO	ACCOUNT NO	AMOUNT
	8/05/2019	6375	ATWOOD DISTRIBUTING LP	PI 3461 PI 3462	001777 001778	020-5410-435.60-45 020-5305-438.60-10 8/05/2019 TOTAL - CUMULATIVE TOTAL -	69.44 99.99 169.43 87,537.15
	8/06/2019	244	GREEN ACRE SOD FARMS DBA	PI 3623 PI 3624	114490 114491	020-5305-438.60-23 020-5305-438.60-23	42.50 127.50
	8/06/2019	6375	ATWOOD DISTRIBUTING LP	PI 3463	001779	020-5305-438.60-23 8/06/2019 TOTAL - CUMULATIVE TOTAL -	12.99 157.01 87,694.16
	8/07/2019	90	NAPA AUTO PARTS	PI 3378 PI 3379	2210941360 2210941360	020-0000-141.00-00 020-0000-141.00-00 8/07/2019 TOTAL - CUMULATIVE TOTAL -	55.66 104.88 160.54 87,854.70
	8/09/2019	37	ANCHOR STONE CO	PI 3350	191883009	020-5305-438.60-27 8/09/2019 TOTAL - CUMULATIVE TOTAL -	670.99 670.99 88,525.69
	8/12/2019	244	GREEN ACRE SOD FARMS DBA	PI 3625	114613	020-5305-438.60-23	85.00
	8/12/2019	371	J & R EQUIPMENT LLC	PI 3036	01P2268	020-5415-435.60-24	2,717.35
	8/12/2019	6375	ATWOOD DISTRIBUTING LP	PI 3465	001781	020-5305-438.60-23 8/12/2019 TOTAL - CUMULATIVE TOTAL -	13.96 2,816.31 91,342.00
	8/13/2019	92	WHITE STAR MACHINERY & SUPPLY	PI 3649	07206594	020-5400-434.60-20	1,538.00
	8/13/2019	9876	RI TZ/LONE STAR SAFETY & SUPPLY	PI 3172 PI 3173	6812943 6812943	020-0000-141.00-00 020-0000-141.00-00	53.62 200.61
	8/13/2019	9892	GOODYEAR COMMERCIAL TIRE	PI 2967 PI 3035	2541014479 2541014479	020-0000-141.00-00 020-5125-436.60-19 8/13/2019 TOTAL - CUMULATIVE TOTAL -	182.57 9.95 1,984.75 93,326.75
	8/14/2019	327	HACH COMPANY	PI 3105	11593202	020-5405-434.60-34	1,531.67
	8/14/2019	6375	ATWOOD DISTRIBUTING LP	PI 3466	003685	020-5305-438.60-10	119.99
	8/14/2019	7414	GM SALES CO	PI 3715	293827	020-5415-435.60-41	750.00
	8/14/2019	10502	CHEMTRADE CHEMICALS US LLC	PI 3087	92709647	020-5405-434.60-34 8/14/2019 TOTAL - CUMULATIVE TOTAL -	4,048.75 6,450.41 99,777.16
	8/15/2019	327	HACH COMPANY	PI 3106	11595855	020-5405-434.60-34	154.17
	8/15/2019	6375	ATWOOD DISTRIBUTING LP	PI 3468 PI 3469	001783 001784	020-5305-438.60-10 020-5400-434.60-23 8/15/2019 TOTAL - CUMULATIVE TOTAL -	114.94 45.98 315.09 100,092.25
	8/16/2019	244	GREEN ACRE SOD FARMS DBA	PI 3626	114667	020-5305-438.60-27 8/16/2019 TOTAL - CUMULATIVE TOTAL -	85.00 85.00 100,177.25

FUND 020 BAMA	DATE DUE	VENDOR NO	VENDOR NAME	VOUCHER NO	INVOICE NO	ACCOUNT NO	AMOUNT
	8/19/2019	327	HACH COMPANY	PI 3107	11599181	020-5405-434.60-34	91.29
						8/19/2019 TOTAL -	91.29
						CUMULATIVE TOTAL -	100,268.54
	8/20/2019	92	WHITE STAR MACHINERY & SUPPLY	PI 3650	07207094	020-5400-434.60-20	101.12
	8/20/2019	244	GREEN ACRE SOD FARMS DBA	PI 3627	114678	020-5305-438.60-27	42.50
				PI 3628	114679	020-5305-438.70-15	340.00
	8/20/2019	6126	WELSCO INC.	PI 3479	02131933	020-5120-437.70-17	15.00
	8/20/2019	6955	GREENHILL MATERIALS	PI 3346	153179	020-5305-438.60-27	378.68
						8/20/2019 TOTAL -	847.30
						CUMULATIVE TOTAL -	101,115.84
	8/21/2019	90	NAPA AUTO PARTS	PI 3047	22109452598	020-0000-141.00-00	108.84
				PI 3048	22109452598	020-0000-141.00-00	130.23
	8/21/2019	92	WHITE STAR MACHINERY & SUPPLY	PI 3651	07207156	020-5400-434.60-20	217.02
	8/21/2019	120	CINTAS CORPORATION	PI 3638	5014480082	020-5100-437.60-23	137.90
	8/21/2019	244	GREEN ACRE SOD FARMS DBA	PI 3629	114745	020-5400-434.60-80	85.00
	8/21/2019	327	HACH COMPANY	PI 3108	11603444	020-5410-435.60-34	290.01
	8/21/2019	5371	PREMIER TRUCK GROUP	PI 3013	125280746	020-5125-436.60-20	136.50
	8/21/2019	6375	ATWOOD DISTRIBUTING LP	PI 3383	001789M	020-0000-141.00-00	167.16
						8/21/2019 TOTAL -	1,272.66
						CUMULATIVE TOTAL -	102,388.50
	8/22/2019	8	BRENNTAG SOUTHWEST INC	PI 3164	BSW132448	020-5410-435.60-34	35,247.30
	8/22/2019	90	NAPA AUTO PARTS	PI 3049	2210942676	020-0000-141.00-00	228.48
	8/22/2019	225	SUMMIT TRUCK GROUP	PI 3384	411189661	020-0000-141.00-00	460.19
	8/22/2019	5290	HOLLOWAY, UPDIKE AND BELLEN IN	PI 3033	4	020-5400-434.70-16	26,250.00
	8/22/2019	5371	PREMIER TRUCK GROUP	PI 3014	125280912	020-5125-436.60-20	68.25
				PI 3660	125280980	020-5125-436.60-20	144.12
	8/22/2019	9784	EUROFINS EATON ANALYTICAL INC	PI 3632	S342891	020-5405-434.30-34	720.00
	8/22/2019	9876	RITZ/LONE STAR SAFETY & SUPPLY	PI 3174	5818263	020-0000-141.00-00	164.82
						8/22/2019 TOTAL -	63,283.16
						CUMULATIVE TOTAL -	165,671.66
	8/23/2019	120	CINTAS CORPORATION	PI 3639	5014497493	020-5410-435.60-23	190.83
	8/23/2019	225	SUMMIT TRUCK GROUP	PI 3017	411189785	020-5125-436.60-20	669.87
	8/23/2019	5371	PREMIER TRUCK GROUP	PI 3661	125281057	020-5125-436.60-20	189.74
	8/23/2019	6375	ATWOOD DISTRIBUTING LP	PI 3474	001792	020-5415-435.60-23	2.99
	8/23/2019	6955	GREENHILL MATERIALS	PI 3347	153395	020-5305-438.60-27	154.90
	8/23/2019	9706	WATER TECH INC	PI 3647	79368	020-5405-434.60-34	4,566.60
						8/23/2019 TOTAL -	5,774.93
						CUMULATIVE TOTAL -	171,446.59
	8/26/2019	71	BROKEN ARROW ELECTRIC SUPPLY I	PI 3077	S2560258001	020-5410-435.60-23	13.01
	8/26/2019	90	NAPA AUTO PARTS	PI 3352	2210942960	020-5415-435.60-20	727.58
				PI 3354	2210942973	020-5415-435.60-20	54.00
	8/26/2019	92	WHITE STAR MACHINERY & SUPPLY	PI 3652	07207431	020-5400-434.60-20	1,017.52
	8/26/2019	240	GRAINGER	PI 3718	9274547760	020-5120-437.60-18	181.52
	8/26/2019	5371	PREMIER TRUCK GROUP	PI 3015	125281134	020-5125-436.60-20	48.58
	8/26/2019	5941	LOWES	PI 3247	02001 82619	020-5100-437.60-18	19.71
				PI 3250	2097 1 1	020-5305-438.60-23	49.44

FUND 020 BAMA	DATE DUE	VENDOR NO	VENDOR NAME	VOUCHER NO	INVOICE NO	ACCOUNT NO	AMOUNT
	8/26/2019	6090	RAM PRODUCTS INC	PI 3021	160065118	020-5120-437.60-23	167.80
	8/26/2019	6955	GREENHILL MATERIALS	PI 3348	153430	020-5305-438.60-27	420.57
	8/26/2019	9784	EUROFINS EATON ANALYTICAL INC	PI 3633	S343241	020-5405-434.30-34	636.00
	8/26/2019	10077	GULBRANSEN TECHNOLOGIES INC	PI 3161	91043580	020-5405-434.60-34	11,930.96
						8/26/2019 TOTAL -	15,158.69
						CUMULATIVE TOTAL -	186,605.28
	8/27/2019	90	NAPA AUTO PARTS	PI 3358	2210943053	020-5305-438.60-20	12.95
				PI 3359	2210943081	020-5305-438.60-20	9.29
	8/27/2019	225	SUMMIT TRUCK GROUP	PI 3018	411189989	020-5125-436.60-20	501.12
	8/27/2019	377	KIMS INTERNATIONAL	PI 3157	01150491N	020-5410-435.60-23	10.78
	8/27/2019	5941	LOWES	PI 3253	02227 82719	020-5405-434.60-23	279.26
				PI 3254	02241 82719	020-5410-435.60-23	75.38
				PI 3256	13527 82719	020-5125-436.60-23	65.51
	8/27/2019	7803	P&K EQUIPMENT	PI 3380	3405439	020-0000-141.00-00	172.55
	8/27/2019	10077	GULBRANSEN TECHNOLOGIES INC	PI 3162	91043581	020-5405-434.60-34	12,006.56
						8/27/2019 TOTAL -	13,133.40
						CUMULATIVE TOTAL -	199,738.68
	8/28/2019	90	NAPA AUTO PARTS	PI 3363	2210943152	020-5400-434.60-20	3.96
	8/28/2019	244	GREEN ACRE SOD FARMS DBA	PI 3631	114778	020-5305-438.70-15	1,442.00
	8/28/2019	377	KIMS INTERNATIONAL	PI 3158	01150761N	020-5120-437.60-20	6.21
	8/28/2019	5941	LOWES	PI 3260	13679 82819	020-5415-435.60-41	198.55
				PI 3263	20176 82819	020-5200-419.60-24	189.05
	8/28/2019	6375	ATWOOD DISTRIBUTING LP	PI 3475	001794	020-5415-435.60-23	14.99
				PI 3477	809150	020-5305-438.70-15	63.97
	8/28/2019	6453	NSI LAB SOLUTIONS INC	PI 3020	370198	020-5405-434.60-34	149.00
	8/28/2019	6955	GREENHILL MATERIALS	PI 3349	153554	020-5305-438.60-27	153.40
	8/28/2019	9569	TWIN CITIES READY MIX INC	PI 3148	190242	020-5305-438.60-27	225.00
				PI 3149	190242	020-5400-434.60-27	135.00
	8/28/2019	9700	ADVANCED INDUSTRIAL SOLUTIONS	PI 3385	253406	020-0000-141.00-00	195.26
				PI 3386	253406	020-0000-141.00-00	371.76
	8/28/2019	9784	EUROFINS EATON ANALYTICAL INC	PI 3634	L0468796	020-5405-434.60-34	600.00
				PI 3635	S343499	020-5405-434.60-34	1,032.00
	8/28/2019	11807	JENDCO SAFETY SUPPLY INC	PI 3481	156667	020-5415-435.70-04	4,375.00
				PI 3482	156728	020-5415-435.70-04	700.00
						8/28/2019 TOTAL -	9,855.15
						CUMULATIVE TOTAL -	209,593.83
	8/29/2019	90	NAPA AUTO PARTS	PI 3366	2210943298	020-5200-419.60-20	41.36
	8/29/2019	225	SUMMIT TRUCK GROUP	PI 3663	411189997	020-5125-436.60-20	383.12
	8/29/2019	5941	LOWES	PI 3264	01887 82919	020-5405-434.60-23	102.40
				PI 3266	12474 82919	020-5415-435.60-41	10.68
	8/29/2019	8099	EMERGENCY POWER SYSTEMS INC	PI 3040	19016378	020-5415-435.40-20	149.00
	8/29/2019	8679	CORE & MAIN	PI 3037	055920	020-5408-434.60-38	8,550.00
	8/29/2019	9569	TWIN CITIES READY MIX INC	PI 3151	190336	020-5400-434.60-27	90.00
	8/29/2019	9846	EVANS HYDRAULIC REPAIR	PI 3039	7268	020-5120-437.40-29	425.00
	8/29/2019	11751	TONERTOWN	PI 3433	6631	020-0000-141.00-00	196.00
						8/29/2019 TOTAL -	9,947.56
						CUMULATIVE TOTAL -	219,541.39

FUND 020 BAMA	DATE DUE	VENDOR NO	VENDOR NAME	VOUCHER NO	INVOICE NO	ACCOUNT NO	AMOUNT
	8/30/2019	37	ANCHOR STONE CO	PI 3153	192060909	020-5305-438.60-27	206.89
	8/30/2019	90	NAPA AUTO PARTS	PI 3368	2210943371	020-5400-434.60-20	71.05
				PI 3370	2210943380	020-5120-437.60-23	35.31
	8/30/2019	5371	PREMIER TRUCK GROUP	PI 3662	125281350	020-5125-436.60-20	39.83
	8/30/2019	7803	P&K EQUIPMENT	PI 3381	3410372	020-0000-141.00-00	90.09
	8/30/2019	8019	HDR, INC	PI 3621	1200210378	020-5400-434.70-16	34,222.80
	8/30/2019	8679	CORE & MAIN	PI 2965	938973	020-0000-141.00-00	2,595.00
				PI 2968	055319	020-0000-141.00-00	13,340.00
	8/30/2019	8940	911 CUSTOM	PI 3382	37811	020-0000-141.00-00	715.71
						8/30/2019 TOTAL -	51,316.88
						CUMULATIVE TOTAL -	270,858.07
	8/31/2019	370	AIRGAS USA LLC	PI 3084	9964586788	020-5120-437.60-23	734.79
	8/31/2019	2372	WATKINS SAND COMPANY INC	PI 3622	20178X	020-5400-434.60-80	462.00
	8/31/2019	6733	CROSSLAND HEAVY CONTRACTORS INC	PI 3341	19	020-5410-435.70-15	123,038.35
				PI 3342	19 VENDOR PAY	020-5410-435.70-15	16,739.80
	8/31/2019	8616	GEODECA LLC	PI 3032	1903022	020-5400-434.70-16	7,521.00
	8/31/2019	9784	EUROFINS EATON ANALYTICAL INC	PI 3636	L0469642	020-5405-434.30-34	400.00
						8/31/2019 TOTAL -	115,416.34
						CUMULATIVE TOTAL -	386,274.41
	9/01/2019	11663	K. ROSS TRUCKING INC	PI 3128	19506	020-5305-438.60-27	584.64
				PI 3129	19506	020-5400-434.60-80	259.84
						9/01/2019 TOTAL -	844.48
						CUMULATIVE TOTAL -	387,118.89
	9/03/2019	90	NAPA AUTO PARTS	PI 3286	2210943650	020-5115-437.60-20	14.20
				PI 3290	2210943698	020-5415-435.60-20	12.48
				PI 3398	2210943666	020-0000-141.00-00	63.36
	9/03/2019	173	TULSA AUTO SPRING	PI 3696	00358973	020-5125-436.40-20	770.91
	9/03/2019	377	KIMS INTERNATIONAL	PI 3132	01151541N	020-5305-438.60-20	32.97
				PI 3134	01151651N	020-5305-438.60-20	30.44
	9/03/2019	4730	DELL MARKETING L.P.	PI 3667	10337938413	020-5100-437.60-24	809.96
	9/03/2019	5941	LOWES	PI 3176	01898 9319	020-5305-438.60-23	18.04
				PI 3177	02743	020-5305-438.70-15	137.44
				PI 3178	02744 90319	020-5120-437.60-18	6.04
				PI 3179	02787 9319	020-5410-435.60-23	102.98
				PI 3180	02790 9319	020-5305-438.60-23	127.80
				PI 3182	13564 90319	020-5400-434.60-23	23.74
	9/03/2019	9892	GOODYEAR COMMERCIAL TIRE	PI 3436	2541014698	020-0000-141.00-00	1,317.90
						9/03/2019 TOTAL -	3,468.26
						CUMULATIVE TOTAL -	390,587.15
	9/04/2019	8	BRENNTAG SOUTHWEST INC	PI 3141	BSW134454	020-5410-435.60-34	841.13
				PI 3142	BSW134455	020-5405-434.60-34	1,861.09
	9/04/2019	90	NAPA AUTO PARTS	PI 3292	2210943737	020-5305-438.60-20	19.66
				PI 3295	2210943792	020-5405-434.60-20	21.67
				PI 3296	2210943805	020-5305-438.60-20	43.38
				PI 3297	2210943809	020-5305-438.60-20	2.15
				PI 3298	2210943819	020-5305-438.60-20	9.00
	9/04/2019	225	SUMMIT TRUCK GROUP	PI 3402	411190489	020-0000-141.00-00	357.81

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9/04/2019	244		GREEN ACRE SOD FARMS DBA	PI 3494	114917	020-5305-438.60-23	170.00
				PI 3495	114918	020-5305-438.60-23	170.00
9/04/2019	733		PIONEER FENCE	PI 3563	19352	020-5305-438.70-15	3,183.00
9/04/2019	2585		TRUCKPRO, LLC	PI 2951	0310580288	020-0000-141.00-00	85.29
9/04/2019	5941		LOWES	PI 3183	01179 9419	020-5305-438.60-23	68.32
				PI 3185	02066 90419	020-5400-434.60-23	78.82
				PI 3188	03488 90419	020-5405-434.60-23	144.67
9/04/2019	9876		RITZ/LONE STAR SAFETY & SUPPLY	PI 2963	5823599	020-0000-141.00-00	335.44
9/04/2019	11276		DOG ON IT PARKS	PI 3046	14047	020-0000-141.00-00	744.00
						9/04/2019 TOTAL -	8,117.43
						CUMULATIVE TOTAL -	398,704.58
9/05/2019	90		NAPA AUTO PARTS	PI 3404	2210943880	020-0000-141.00-00	22.61
				PI 3405	2210943880	020-0000-141.00-00	43.96
				PI 3406	2210943880	020-0000-141.00-00	56.70
9/05/2019	176		TIMMONS OIL COMPANY INC	PI 2955	WM 0535	020-0000-141.00-00	376.20
9/05/2019	226		SUMMIT TRUCK GROUP	PI 3403	411190505	020-0000-141.00-00	133.14
9/05/2019	244		GREEN ACRE SOD FARMS DBA	PI 3496	114924	020-5400-434.60-80	170.00
				PI 3497	114925	020-5400-434.60-80	170.00
				PI 3499	114927	020-5305-438.60-23	85.00
9/05/2019	374		KELLY MOORE PAINT COMPANY INC	PI 3399	160300000250188	020-0000-141.00-00	3,042.00
9/05/2019	399		LOCKE SUPPLY COMPANY	PI 2972	3815552300	020-5120-437.60-18	40.99
				PI 2973	3815563000	020-5120-437.60-18	8.10
9/05/2019	5042		H G FLAKE SUPPLY CO	PI 2976	03701571N	020-5405-434.60-23	34.00
9/05/2019	5936		CONTINENTAL BATTERY CO	PI 3028	10930905191410	020-5415-435.60-20	259.12
9/05/2019	5941		LOWES	PI 3192	01375 90519	020-5405-434.60-23	96.88
				PI 3194	01421 9519	020-5305-438.60-23	141.02
				PI 3196	02179 09519	020-5305-438.60-23	7.89
				PI 3201	139911 9519	020-5305-438.60-23	123.39
				PI 3202	19937 90519	020-5415-435.60-23	6.76
9/05/2019	10233		PETROLEUM TRADERS CORP	PI 2954	1449596	020-0000-141.00-00	13,960.46
9/05/2019	11760		DETECTION INSTRUMENTS CORP	PI 3565	518643742	020-5415-435.60-41	6,514.47
9/05/2019	11807		JENDCO SAFETY SUPPLY INC	PI 3454	157064	020-5415-435.70-04	235.00
						9/05/2019 TOTAL -	25,527.69
						CUMULATIVE TOTAL -	424,232.27
9/06/2019	8		BRENNTAG SOUTHWEST INC	PI 3143	BSW134948	020-5405-434.60-34	2,245.00
9/06/2019	37		ANCHOR STONE CO	PI 3127	192115309	020-5305-438.60-27	221.68
9/06/2019	42		ARROW SAFE AND LOCK INC	PI 3336	73845	020-5400-434.60-23	10.00
9/06/2019	74		BROKEN ARROW LAWN & GARDEN	PI 3566	19219	020-5305-438.60-20	31.00
9/06/2019	90		NAPA AUTO PARTS	PI 3300	2210943928	020-5415-435.60-20	31.72
9/06/2019	240		GRAINGER	PI 3026	9284189017	020-5405-434.60-45	579.76
9/06/2019	244		GREEN ACRE SOD FARMS DBA	PI 3500	114930	020-5305-438.70-15	170.00
				PI 3501	114931	020-5305-438.70-15	85.00
9/06/2019	370		AIRGAS USA LLC	PI 3052	9092752889	020-5120-437.60-23	154.32
9/06/2019	1249		MYERS TIRE SUPPLY INC	PI 3698	95017454	020-5120-437.60-23	40.50
9/06/2019	2585		TRUCKPRO, LLC	PI 2952	0310580425	020-0000-141.00-00	99.29
9/06/2019	5936		CONTINENTAL BATTERY CO	PI 3029	15320906190805	020-5415-435.60-20	129.56
9/06/2019	5941		LOWES	PI 3206	02461 90619	020-5410-435.60-45	20.47
9/06/2019	6587		INTERSTATE ALL BATTERY CENTER	PI 2957	1925701020963	020-0000-141.00-00	383.40
9/06/2019	9700		ADVANCED INDUSTRIAL SOLUTIONS	PI 3395	253406B0 1	020-0000-141.00-00	79.73

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	9/06/2019	10233	PETROLEUM TRADERS CORP	PI 3400 PI 2956	253528 1449956	020-0000-141.00-00 020-0000-141.00-00 9/06/2019 TOTAL - CUMULATIVE TOTAL -	419.28 14,486.93 19,187.64 443,419.91
	9/08/2019	9822	MORTON SALT INC	PI 3065	5401916125	020-5405-434.60-34 9/08/2019 TOTAL - CUMULATIVE TOTAL -	6,098.70 6,098.70 449,518.61
	9/09/2019	8	BRENNTAG SOUTHWEST INC	PI 3144 PI 3145 PI 3146	BSW135802 BSW135803 BSW135804	020-5410-435.60-34 020-5410-435.60-34 020-5410-435.60-34	841.13 3,473.00 7,025.00
	9/09/2019	90	NAPA AUTO PARTS	PI 3301 PI 3302 PI 3304	2210944108 2210944110 2210944140	020-5120-437.60-24 020-5125-436.60-20 020-5305-438.60-20	26.49 53.90 5.27
	9/09/2019	225	SUMMIT TRUCK GROUP	PI 2985	CM411189989	020-5125-436.60-20	96.60
	9/09/2019	240	GRAINGER	PI 3699 PI 3700	9286109682 9286861043	020-5410-435.60-23 020-5410-435.60-23	185.12 185.12
	9/09/2019	244	GREEN ACRE SOD FARMS DBA	PI 3502 PI 3503	114957 114958	020-5305-438.60-23 020-5400-434.60-80	51.00 170.00
	9/09/2019	340	HILTI INC	PI 3701	4614443626	020-5400-434.60-24	1,241.94
	9/09/2019	891	STOREY WRECKER SERVICE INC	PI 3705	483317	020-5125-436.40-20	216.00
	9/09/2019	5941	LOWES	PI 3208 PI 3209 PI 3210 PI 3211 PI 3212 PI 3214	01247 90919 01331 90919 02080 90919 02108 90919 02125 09919 12287 90919	020-5400-434.60-23 020-5400-434.60-23 020-5100-437.60-18 020-5400-434.60-23 020-5305-438.60-23 020-5415-435.60-23	3.78 8.24 11.10 22.11 7.79 11.18
	9/09/2019	9892	GOODYEAR COMMERCIAL TIRE	PI 2958	2541014740	020-0000-141.00-00 9/09/2019 TOTAL - CUMULATIVE TOTAL -	829.50 14,271.07 463,789.68
	9/10/2019	90	NAPA AUTO PARTS	PI 3310 PI 3410 PI 3411 PI 3412 PI 3413	2210944284 2210944274 2210944274 2210944274 2210944274	020-5305-438.60-20 020-0000-141.00-00 020-0000-141.00-00 020-0000-141.00-00 020-0000-141.00-00	11.99 31.11 19.92 3.20 62.97
	9/10/2019	130	UNITED ENGINES INC	PI 3702 PI 3703	2168439 2168439	020-5415-435.40-20 020-5415-435.60-20	158.00 669.95
	9/10/2019	225	SUMMIT TRUCK GROUP	PI 3417 PI 3584	411190890 411190830	020-0000-141.00-00 020-5125-436.60-20	133.14 65.68
	9/10/2019	289	PETROLEUM MARKETERS EQUIPT CO	PI 2960	2632	020-0000-141.00-00	39.32
	9/10/2019	327	HACH COMPANY	PI 3551	11628846	020-5405-434.60-34	1,257.40
	9/10/2019	437	OCT EQUIPMENT INC	PI 3587	S02004391	020-5400-434.60-20	415.17
	9/10/2019	447	LIBERTY FLAGS	PI 2959	90639	020-0000-141.00-00	278.40
	9/10/2019	891	STOREY WRECKER SERVICE INC	PI 3707	483595	020-5305-438.40-20	276.48
	9/10/2019	1409	SMITH FARM & GARDEN CO	PI 3055 PI 3056	860987 860988	020-5415-435.60-20 020-5305-438.60-20	23.93 46.66
	9/10/2019	5042	H G FLAKE SUPPLY CO	PI 2977 PI 2978 PI 2979	03701281N 03701601N 37015711N	020-5405-434.60-23 020-5405-434.60-23 020-5405-434.60-23	63.74 18.96 109.60

FUND 020 BAMA	DATE DUE	VENDOR NO	VENDOR NAME	VOUCHER NO	INVOICE NO	ACCOUNT NO	AMOUNT
	9/10/2019	5941	LOWES	PI 3216	02253 91019	020-5400-434.60-20	30.60
				PI 3218	02375 91019	020-5405-434.60-34	49.34
	9/10/2019	6955	GREENHILL MATERIALS	PI 3277	154154	020-5305-438.60-27	88.27
	9/10/2019	9297	JANDERSON INC DBA CARTRIDGE WO	PI 3550	19139	020-5415-435.60-03	25.00
	9/10/2019	9892	GOODYEAR COMMERCIAL TIRE	PI 2969	2541014751	020-0000-141.00-00	3,923.88
						9/10/2019 TOTAL -	7,802.61
						CUMULATIVE TOTAL -	471,592.29
	9/11/2019	8	BRENNTAG SOUTHWEST INC	PI 3147	BSW136787	020-5410-435.60-34	134.40
	9/11/2019	90	NAPA AUTO PARTS	PI 3312	2210944318	020-5125-436.60-20	29.91
				PI 3313	2210944323	020-5120-437.60-23	19.97
				PI 3315	2210944361	020-5120-437.60-24	14.68
				PI 3414	2210944315	020-0000-141.00-00	126.00
				PI 3418	2210944325	020-0000-141.00-00	84.93
				PI 3419	2210944325	020-0000-141.00-00	4.14
				PI 3420	2210944325	020-0000-141.00-00	55.66
	9/11/2019	204	FENSCO INC	PI 3421	55254	020-0000-141.00-00	7,500.00
	9/11/2019	225	SUMMIT TRUCK GROUP	PI 2961	411190956	020-0000-141.00-00	155.43
				PI 3585	411190835	020-5125-436.60-20	20.86
				PI 3586	411190948	020-5125-436.60-20	212.84
	9/11/2019	244	GREEN ACRE SOD FARMS DBA	PI 3504	114975	020-5305-438.60-23	42.50
				PI 3505	114977	020-5305-438.60-23	150.00
	9/11/2019	279	PINKLEY SALES COMPANY	PI 3397	21141	020-0000-141.00-00	581.00
	9/11/2019	371	J & R EQUIPMENT LLC	PI 2996	01P2616	020-5125-436.60-20	952.99
	9/11/2019	377	KIMS INTERNATIONAL	PI 3136	01153201N	020-5125-436.60-20	163.46
	9/11/2019	1409	SMITH FARM & GARDEN CO	PI 3059	861103	020-5405-434.60-20	4.68
	9/11/2019	2649	BRUSKE PRODUCTS INC	PI 3409	64612	020-0000-141.00-00	331.19
	9/11/2019	3031	ECONOLITE CONTROL PRODUCTS	PI 3394	151867	020-0000-141.00-00	44,487.15
	9/11/2019	4572	LIGHTING INC/ BROKEN ARROW ELEC	PI 3175	S2566361001	020-0000-141.00-00	655.11
	9/11/2019	7953	COMMUNICATIONS SUPPLY CORP	PI 3691	473921	020-5120-437.70-17	159.00
	9/11/2019	9892	GOODYEAR COMMERCIAL TIRE	PI 3437	2541014766	020-0000-141.00-00	263.58
	9/11/2019	11757	JAM DISTRIBUTING CO	PI 3438	JAM19287449	020-0000-141.00-00	232.88
						9/11/2019 TOTAL -	56,362.36
						CUMULATIVE TOTAL -	527,954.65
	9/12/2019	90	NAPA AUTO PARTS	PI 3318	2210944412	020-5410-435.60-20	194.90
				PI 3319	2210944413	020-5120-437.60-23	5.98
				PI 3320	2210944420	020-5120-437.60-23	3.62
				PI 3321	2210944423	020-5120-437.60-23	62.47
				PI 3322	2210944437	020-5410-435.60-20	17.31
				PI 3323	2210944446	020-5410-435.60-20	51.27
	9/12/2019	244	GREEN ACRE SOD FARMS DBA	PI 3506	114979	020-5400-434.60-80	170.00
				PI 3507	114980	020-5400-434.60-80	170.00
	9/12/2019	399	LOCKE SUPPLY COMPANY	PI 3514	3821501900	020-5410-435.60-18	25.69
				PI 3515	3821856200	020-5410-435.60-18	8.46
				PI 3516	3822010300	020-5410-435.60-18	7.08
	9/12/2019	2585	TRUCKPRO, LLC	PI 3439	0310580831	020-0000-141.00-00	178.30
	9/12/2019	3444	ADMIRAL EXPRESS LLC	PI 3578	28510510	020-5125-436.60-24	1,083.71
	9/12/2019	5941	LOWES	PI 3230	01886 91219	020-5305-438.60-23	16.48
	9/12/2019	9700	ADVANCED INDUSTRIAL SOLUTIONS	PI 3396	253406B01	020-0000-141.00-00	71.60
	9/12/2019	9846	EVANS HYDRAULIC REPAIR	PI 3609	7273	020-5120-437.40-29	425.00

FUND 020 BAMA	DATE DUE	VENDOR NO	VENDOR NAME	VOUCHER NO	INVOICE NO	ACCOUNT NO	AMOUNT
9/12/2019	9892		GOODYEAR COMMERCIAL TIRE	PI 3440	2541014774	020-0000-141.00-00	2,615.92
9/12/2019	9973		KUBOTA CENTER EAST TULSA	PI 3441	P25061	020-0000-141.00-00	98.98
9/12/2019	10703		ACDC INDUSTRIAL AUTOMATION	PI 3508	INV190286	020-5405-434.60-24	150.00
9/12/2019	99999		MISC- A/R REFUNDS	UT	000226735	020-0000-225.01-00	39.13
				UT	000204407	020-0000-225.01-00	58.49
				UT	000195971	020-0000-225.01-00	53.04
				UT	000213341	020-0000-225.01-00	1.61
				UT	000243959	020-0000-225.01-00	26.81
				UT	000239623	020-0000-225.01-00	39.34
				UT	000242579	020-0000-225.01-00	38.76
				UT	000243959	020-0000-225.01-00	28.81
				UT	000236547	020-0000-225.01-00	53.33
				UT	000236217	020-0000-225.01-00	41.57
				UT	000135183	020-0000-225.01-00	59.33
				UT	000240147	020-0000-225.01-00	32.39
				UT	000227349	020-0000-225.01-00	4.13
				UT	000244479	020-0000-225.01-00	5.96
				UT	000217095	020-0000-225.01-00	9.14
				UT	000233119	020-0000-225.01-00	5.34
				UT	000106935	020-0000-225.01-00	4.97
					9/12/2019 TOTAL -		5,856.92
					CUMULATIVE TOTAL -		533,811.57
9/13/2019	42		ARROW SAFE AND LOCK INC	PI 3337	73858	020-5120-437.60-03	39.00
9/13/2019	90		NAPA AUTO PARTS	PI 3422	2210944576	020-0000-141.00-00	6.94
				PI 3423	2210944576	020-0000-141.00-00	84.32
				PI 3424	2210944576	020-0000-141.00-00	40.84
9/13/2019	225		SUMMIT TRUCK GROUP	PI 3407	411191106	020-0000-141.00-00	417.26
				PI 3408	411191106	020-0000-141.00-00	83.02
9/13/2019	1409		SMITH FARM & GARDEN CO	PI 3060	861469	020-5305-438.60-20	340.80
9/13/2019	5936		CONTINENTAL BATTERY CO	PI 3443	16730913191456	020-0000-141.00-00	133.44
9/13/2019	5941		LOWES	PI 3234	01006 91319	020-5305-438.60-23	15.61
				PI 3238	02010 91319	020-5305-438.60-23	62.06
				PI 3244	02946 91319	020-5400-434.60-27	9.06
				PI 3246	19851 91319	020-5415-435.60-23	26.35
9/13/2019	7414		GM SALES CO	PI 3688	294756	020-5415-435.60-41	66.00
9/13/2019	9569		TWIN CITIES READY MIX INC	PI 3125	191287	020-5305-438.60-27	1,000.00
9/13/2019	10077		GULBRANSEN TECHNOLOGIES INC	PI 3552	91043874	020-5405-434.60-34	11,820.08
9/13/2019	10293		DIAMOND MOWERS INC	PI 3706	016600221N	020-5305-438.60-20	136.29
9/13/2019	11807		JENDCO SAFETY SUPPLY INC	PI 3455	157518	020-5415-435.70-04	919.00
					9/13/2019 TOTAL -		15,198.07
					CUMULATIVE TOTAL -		549,009.64
9/16/2019	22		ALLIED FENCE CO OF TULSA	PI 3118	838649	020-5305-438.40-28	3,375.00
9/16/2019	90		NAPA AUTO PARTS	PI 3326	2210944700	020-5120-437.60-23	51.96
				PI 3327	2210944708	020-5305-438.60-20	19.99
9/16/2019	120		CINTAS CORPORATION	PI 3543	5014726234	020-5305-438.60-23	72.44
9/16/2019	1034		ALLIED ELECTRONICS INC	PI 3606	9011638510	020-5405-434.60-45	163.88
9/16/2019	1057		TULSA WORLD	002616	584861	020-5130-437.50-05	87.33
				002616	584866	020-5130-437.50-05	86.10
				002617	588309	020-5130-437.50-05	82.41

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				002618	588309	020-5130-437.50-05	86.10
				002619	588309	020-5130-437.50-05	83.64
9/16/2019	1409	SMITH FARM & GARDEN CO		PI 3416	861703	020-0000-141.00-00	46.66
				PI 3523	861704	020-5305-438.60-20	5.01
9/16/2019	2673	ACCURATE ENVIRONMENTAL LLC		002581	BH27107	020-5405-434.30-34	165.00
9/16/2019	4315	TULSA CITY COUNTY HEALTH DEPT.		002611	35459	020-5410-435.30-34	2,765.00
				002612	35485	020-5410-435.30-34	520.00
9/16/2019	4513	CUSTOM SERVICES		002585	397495	020-5410-435.40-07	266.28
9/16/2019	6454	WASTE MANAGEMENT QUARRY LANDFI		002624	0053934-2185-3	020-5410-435.40-30	14,729.65
9/16/2019	6955	GREENHILL MATERIALS		PI 3279	154440	020-5305-438.60-27	257.60
9/16/2019	7953	COMMUNICATIONS SUPPLY CORP		PI 3692	475250	020-5120-437.70-17	159.00
9/16/2019	8353	BISHOP LIFTING PRODUCTS INC		PI 3415	TULPSI 43951	020-0000-141.00-00	873.00
9/16/2019	9151	CLEAN THE UNIFORM CO OKLAHOMA		002642	50086303	020-5120-437.40-31	82.50
				002643	50086303	020-5115-437.40-31	39.60
				002645	50086752	020-5410-435.40-31	21.22
				002660	50086303	020-5400-434.40-31	124.06
				002661	50086303	020-5415-435.40-31	76.39
				002662	50086303	020-5406-434.40-31	40.80
				002663	50086302	020-5200-419.40-31	6.77
				002667	50086303	020-5100-437.40-33	15.00
				002669	50086303	020-1700-419.40-33	2.25
				002670	50086303	020-5120-437.40-33	25.00
				002671	50086303	020-5130-437.40-31	9.37
				002672	50086303	020-5125-436.40-31	222.57
9/16/2019	9448	ARLEDGE & ASSOCIATES, P.C.		002637	31100	020-0503-415.30-81	3,045.00
9/16/2019	9539	TULSA HEALTH DEPARTMENT		002613	35470	020-5405-434.30-34	1,108.00
9/16/2019	9700	ADVANCED INDUSTRIAL SOLUTIONS		PI 3401	253528BO	020-0000-141.00-00	251.52
9/16/2019	9794	IMPERIAL INC.		002594	941204	020-5305-438.60-23	23.95
9/16/2019	9892	GOODYEAR COMMERCIAL TIRE		PI 3445	2541014802	020-0000-141.00-00	348.76
				PI 3447	2541014800	020-0000-141.00-00	864.18
9/16/2019	9962	FIRSTLINE FILTERS LLC		PI 3598	20165354	020-5100-437.60-18	79.15
				PI 3599	20165354	020-5120-437.60-18	8.20
				PI 3600	20165354	020-5410-435.60-18	21.91
				PI 3601	20165354	020-5415-435.60-23	3.71
9/16/2019	10360	JAVA DAVES EXECUTIVE COFFEE SE		002595	16775	020-5205-419.60-23	52.08
9/16/2019	10420	GERSHMAN, BRICKNER & BRATTON IN		002629	19-09-6691	020-5125-436.70-17	10,848.31
9/16/2019	10703	ACDC INDUSTRIAL AUTOMATION		002582	INV190457	020-5405-434.40-07	1,296.93
9/16/2019	11003	KBC CONSTRUCTION INC		PI 3273	7	020-5415-435.70-15	105,075.79
				PI 3274	7 VENDOR PAY	020-5415-435.70-15	68,915.00-
9/16/2019	11211	CAROLLO ENGINEERS INC		PI 3490	0180435	020-5400-434.70-16	23,816.00
9/16/2019	11283	MUNICIPALH2O		002602	9152 AUG	020-5410-435.30-87	350.00
				002603	9220 SEPT	020-5410-435.30-87	350.00
9/16/2019	11332	STAND-BY PERSONNEL		002610	212187	020-5125-436.50-37	384.80
						9/16/2019 TOTAL -	103,573.87
						CUMULATIVE TOTAL -	652,583.51
9/17/2019	141	CUMMINS SOUTHERN PLAINS		PI 3708	9115661	020-5400-434.60-20	104.01
9/17/2019	176	TIMMONS OIL COMPANY INC		PI 3448	WM 10642	020-0000-141.00-00	1,166.34
9/17/2019	225	SUMMIT TRUCK GROUP		PI 3450	411191331	020-0000-141.00-00	88.11
				PI 3451	411191331	020-0000-141.00-00	26.54
				PI 3709	CM411191267	020-5125-436.60-20	180.00-

FUND 020 BAMA	DATE DUE	VENDOR NO	VENDOR NAME	VOUCHER NO	I NVOI CE NO	ACCOUNT NO	AMOUNT
				PI 3710	411191267	020-5125-436.60-20	898.81
9/17/2019	240		GRAINGER	PI 3457	9295516653	020-5405-434.60-45	1,056.32
9/17/2019	309		OKLAHOMA NATURAL GAS CO	000026	254035382	020-5415-435.50-24	21.82
				000027	257659209	020-5415-435.50-24	40.59
				000111	257977409	020-5415-435.50-24	26.33
				000424	253867927	020-5415-435.50-24	23.85
				000736	254035382	020-5415-435.50-24	.34
				000737	253747127	020-5415-435.50-24	38.20
				000739	220544536	020-5415-435.50-24	23.85
				004047	110016445	020-5120-437.50-24	114.97
				006136	179009782	020-5100-437.50-24	114.97
9/17/2019	2673		ACCURATE ENVIRONMENTAL LLC	002701	BI 03095	020-5405-434.30-34	335.00
9/17/2019	3396		OKLAHOMA NATURAL GAS COMPANY	002721	107796	020-5410-435.70-15	48,370.00
9/17/2019	4513		CUSTOM SERVICES	002677	398177	020-1700-419.40-07	177.44
9/17/2019	4730		DELL MARKETING L.P.	PI 3582	10341062160	020-5125-436.60-24	2,418.12
9/17/2019	5376		KENNETH D SCHWAB	002758	10-21-22/2019	020-0302-413.50-03	49.50
9/17/2019	7497		JPMORGAN CHASE BANK N A	002678	AUG 19	020-0503-415.50-28	1,220.93
9/17/2019	7803		P&K EQUIPMENT	PI 3610	3435390	020-5305-438.60-20	304.84
9/17/2019	9151		CLEAN THE UNIFORM CO OKLAHOMA	002685	50086746	020-5305-438.40-31	158.33
				002687	50086746	020-5305-438.40-33	2.60
				002688	50086746	020-5305-438.40-33	2.60
9/17/2019	9892		GOODYEAR COMMERCIAL TIRE	PI 3434	2541014831	020-0000-141.00-00	182.57-
				PI 3449	2541014816	020-0000-141.00-00	550.00
9/17/2019	10214		TULSA'S GREEN COUNTRY STAFFING	002681	73615	020-5125-436.50-37	9,246.90
				002682	73798	020-5125-436.50-37	9,235.20
9/17/2019	10233		PETROLEUM TRADERS CORP	PI 3425	1454644	020-0000-141.00-00	14,387.02
9/17/2019	10469		ATLAS COPCO COMPRESSORS LLC	002702	1119134354	020-5405-434.40-55	2,308.40
				002703	1119123043	020-5405-434.40-55	2,308.40
9/17/2019	11007		SOURCEONE	002718	15120	020-5305-438.40-28	3,117.00
9/17/2019	11332		STAND-BY PERSONNEL	002680	214746	020-5125-436.50-37	1,080.40
9/17/2019	11664		KANSAS GOLF & TURF INC.	PI 3442	01203939	020-0000-141.00-00	294.02
9/17/2019	11831		DAVID PICKEL	002674	9-12-2019	020-5305-438.30-11	18.00
						9/17/2019 TOTAL -	98,967.18
						CUMULATIVE TOTAL -	751,550.69
9/18/2019	42		ARROW SAFE AND LOCK INC	PI 3338	73865	020-5400-434.60-23	9.75
9/18/2019	225		SUMMIT TRUCK GROUP	PI 3618	411191388	020-5305-438.60-20	86.38
9/18/2019	416		MIDWEST BEARING & CHAIN CO	PI 3607	228921	020-5415-435.60-41	803.28
9/18/2019	1409		SMITH FARM & GARDEN CO	PI 3526	862050	020-5305-438.60-20	2.36
				PI 3528	862076	020-5305-438.60-20	208.94
9/18/2019	5936		CONTINENTAL BATTERY CO	PI 3713	32710917190923	020-5305-438.60-20	118.94
9/18/2019	7367		BOKE N.A.	002722	20190831	020-0503-415.50-28	2,416.72
9/18/2019	9151		CLEAN THE UNIFORM CO OKLAHOMA	002728	50087429	020-1700-419.40-33	2.25
				002729	50087429	020-5120-437.40-33	25.00
				002730	50087429	020-5125-436.40-31	222.57
				002731	50087429	020-5130-437.40-31	9.37
				002732	50087428	020-5200-419.40-31	6.77
				002733	50087428	020-5100-437.40-33	4.00
				002785	50087429	020-5400-434.40-31	119.05
				002786	50087429	020-5415-435.40-31	75.39
				002787	50087429	020-5406-434.40-31	45.81

FUND 020 BAMA	DATE DUE	VENDOR NO	VENDOR NAME	VOUCHER NO	INVOICE NO	ACCOUNT NO	AMOUNT
	9/18/2019	9892	GOODYEAR COMMERCIAL TIRE	PI 3452	2541014840	020-0000-141.00-00	472.62
	9/18/2019	10233	PETROLEUM TRADERS CORP	PI 3426	1454855	020-0000-141.00-00	15,334.48
	9/18/2019	11757	JAM DISTRIBUTING CO	PI 3446	JAM19289926	020-0000-141.00-00	874.00
						9/18/2019 TOTAL -	20,837.68
						CUMULATIVE TOTAL -	772,388.37
	9/19/2019	90	NAPA AUTO PARTS	PI 3331	2210944998	020-5400-434.60-20	3.30
				PI 3427	2210945018	020-0000-141.00-00	19.68
				PI 3428	2210945018	020-0000-141.00-00	100.33
				PI 3429	2210945018	020-0000-141.00-00	17.98
				PI 3430	2210945018	020-0000-141.00-00	110.41
	9/19/2019	225	SUMMIT TRUCK GROUP	PI 3619	411191452	020-5305-438.60-20	75.75
	9/19/2019	556	OFFICE TEAM	002790	54305378	020-0503-415.50-37	637.44
	9/19/2019	1409	SMITH FARM & GARDEN CO	PI 3530	862311	020-5305-438.60-20	178.94
	9/19/2019	5282	THE MET	002767	2353	020-5125-436.50-10	10,191.58
	9/19/2019	9161	EVOQUA WATER TECHNOLOGIES LLC	002764	904152862	020-5410-435.30-34	496.16
	9/19/2019	9892	GOODYEAR COMMERCIAL TIRE	PI 3435	2541014868	020-0000-141.00-00	730.28
				PI 3453	2541014863	020-0000-141.00-00	4,250.87
	9/19/2019	10081	MECHANICAL AIR SYSTEMS INC	002765	3710	020-5405-434.40-55	847.77
	9/19/2019	10703	ACDC INDUSTRIAL AUTOMATION	002760	INV190497	020-5405-434.40-55	600.00
						9/19/2019 TOTAL -	16,799.93
						CUMULATIVE TOTAL -	789,188.30
	9/20/2019	37	ANCHOR STONE CO	PI 3280	192236509	020-5305-438.60-27	231.20
	9/20/2019	2045	PROFESSIONAL TURF PRODUCTS	PI 3431	147024200	020-0000-141.00-00	115.34
	9/20/2019	4997	HARRIS CORPORATION PSPC	PI 3444	93327631	020-0000-141.00-00	630.00
	9/20/2019	5376	KENNETH D SCHWAB	002795	9/6/19	020-0302-413.50-03	201.52
	9/20/2019	6454	WASTE MANAGEMENT QUARRY LANDFI	002836	2237704-1006-4	020-5410-435.40-30	410.94
				002837	2236938-1006-9	020-5410-435.40-30	602.31
	9/20/2019	8919	BRINK'S INCORPORATED	002816	2817934	020-0503-415.50-28	585.47
	9/20/2019	9151	CLEAN THE UNIFORM CO OKLAHOMA	002808	50084091	020-5400-434.40-31	119.93
				002813	50084091	020-5415-435.40-31	69.50
				002814	50084091	020-5406-434.40-31	45.81
	9/20/2019	10214	TULSA'S GREEN COUNTRY STAFFING	002827	73292	020-5125-436.50-37	8,743.80
						9/20/2019 TOTAL -	11,755.82
						CUMULATIVE TOTAL -	800,944.12
	9/23/2019	40	AVB	002842	AUGUST 2019	020-0503-415.50-28	484.18
	9/23/2019	241	GRAND RIVER DAM AUTHORITY	002856	51689	020-5405-434.50-94	338.60
	9/23/2019	307	OTA PIKEPASS CENTER	002873	20190800110	020-5120-437.50-03	4.70
				002874	20190800110	020-5125-436.50-03	226.59
				002875	20190800110	020-5200-419.50-03	13.60
				002876	20190800110	020-5210-419.50-03	17.60
				002877	20190800110	020-5305-438.50-03	5.00
				002878	20190800110	020-5400-434.50-03	22.40
				002879	20190800110	020-5401-434.50-03	5.60
				002880	20190800110	020-5405-434.50-03	7.10
				002881	20190800110	020-5406-434.50-03	7.30
				002882	20190800110	020-5410-435.50-03	260.16
				002883	20190800110	020-5415-435.50-03	3.40
	9/23/2019	2673	ACCURATE ENVIRONMENTAL LLC	002838	BH14175	020-5405-434.30-34	180.00

FUND 020 BAMA	DATE DUE	VENDOR NO	VENDOR NAME	VOUCHER NO	I NVOI CE NO	ACCOUNT NO	AMOUNT
9/23/2019	3053		AIR CLEANING TECHNOLOGIES INC	PI 3387	33018	020-0000-141.00-00	281.70
				PI 3388	33019	020-0000-141.00-00	281.70
				PI 3389	33020	020-0000-141.00-00	169.50
				PI 3390	33021	020-0000-141.00-00	292.64
				PI 3391	33022	020-0000-141.00-00	292.69
				PI 3392	33023	020-0000-141.00-00	292.72
				PI 3393	33024	020-0000-141.00-00	633.34
9/23/2019	3964		THE ARROW GROUP	002890	83181	020-1700-419.50-76	4,816.75
				002892	83180	020-1700-419.50-76	482.00
				002894	83182	020-1700-419.50-76	284.50
				002896	83104	020-1700-419.50-76	50.00
				002898	83179	020-1700-419.50-76	1,001.63
9/23/2019	6454		WASTE MANAGEMENT QUARRY LANDFI	002903	2236666-1006-6	020-5100-437.40-28	63.44
9/23/2019	6789		GREEN COUNTRY TESTING	002857	67308	020-5404-434.30-34	2,072.00
9/23/2019	8165		ONLINE INFORMATION SERVICES	002886	949536	020-0503-415.50-28	900.48
9/23/2019	8260		DATAPROSE INC	002853	DP1902710	020-0503-415.50-28	4,802.27
				002905	DP1902710	020-0503-415.50-39	15,399.89
				002994	DP1902710	020-0503-415.50-28	4,236.00
9/23/2019	10587		CLEVEST SOLUTIONS INC.	002847	6574	020-5406-434.70-04	17,700.00
9/23/2019	11007		SOURCEONE	002888	15115	020-5305-438.40-28	3,154.00
9/23/2019	11551		PAGE KECK	002918	9/20/19	020-5415-435.70-15	1,500.00
9/23/2019	11558		TULSA RECYCLE & TRANSFER INC	002899	1908BA	020-5125-436.40-30	934.45
9/23/2019	11837		CLAIMS MANAGEMENT RESOURCES IN	002910	TRT797.2019	020-1700-419.50-09	1,073.64
						9/23/2019 TOTAL -	53,819.57
						CUMULATIVE TOTAL -	854,763.69
9/24/2019	205		FERGUSON WATERWORKS #1895	002965	0625275	020-5410-435.70-15	7.99
				002967	0621606	020-5410-435.70-15	894.87
				002968	0623125	020-5410-435.70-15	83.38
				002970	0623593	020-5410-435.70-15	33.06
9/24/2019	229		AT&T	002987	91810534843224	020-1700-419.50-22	30.46
9/24/2019	733		PIONEER FENCE	002984	19335	020-5415-435.70-15	7,928.00
9/24/2019	2227		HAYNES EQUIPMENT CO	002981	81219251N	020-5415-435.70-15	37,941.00
9/24/2019	2813		HILBILT SALES CORP ARKANSAS	PI 3493	113539	020-5400-434.60-20	1,200.00
9/24/2019	5410		UNITED RENTALS, INC	002980	165526463008	020-5410-435.70-15	882.00
9/24/2019	6347		COX COMMUNICATIONS	002960	066320601	020-1700-419.50-22	957.50
9/24/2019	8959		RUSSELL'S WELDING INC.	002982	3925	020-5415-435.70-15	15,681.00
9/24/2019	9151		CLEAN THE UNIFORM CO OKLAHOMA	002941	50085640	020-5305-438.40-31	158.33
				002943	50085640	020-5305-438.40-33	2.60
				002945	50085647	020-5410-435.40-31	14.22
				002946	50074222	020-5130-437.40-31	9.37
				002947	50087429	020-5120-437.40-31	82.50
				002948	50087429	020-5115-437.40-31	39.60
				002955	50086746	020-5305-438.40-31	158.33
				002957	50086746	020-5305-438.40-33	2.60
9/24/2019	10671		SUNBELT RENTALS	002973	900660890003	020-5410-435.70-15	2,580.00
				002974	897041700006	020-5410-435.70-15	1,090.00
				002975	897041700003	020-5410-435.70-15	99.00
				002976	906420690001	020-5410-435.70-15	2,440.00
				002977	900660890002	020-5410-435.70-15	2,595.00
				002978	897041700004	020-5410-435.70-15	2,340.00

FUND 020 BAMA	DATE DUE	VENDOR NO	VENDOR NAME	VOUCHER NO	INVOICE NO	ACCOUNT NO	AMOUNT
	9/24/2019	11385	STANDARD MATERIALS GROUP	002979	897041700005	020-5410-435.70-15	2,340.00
				002971	2000033549	020-5410-435.70-15	531.00
				002972	2000033764	020-5410-435.70-15	823.50
	9/24/2019	11839	CISPER WELDING INC	002983	24772	020-5415-435.70-15	7,365.00
	9/24/2019	99999	MISC- A/ R REFUNDS	UT	000112889	020-0000-225.01-00	768.92
						9/24/2019 TOTAL -	86,679.23
						CUMULATIVE TOTAL -	941,442.92
	9/25/2019	442	AMERICAN ELECTRIC POWER/ PSO	002995	95136822525	020-5410-435.50-25	3,495.46
				002997	95136822525	020-5410-435.50-25	4,268.05
	9/25/2019	888	PREFERRED BUSINESS SYSTEMS	003004	INV64968	020-5410-435.40-55	33.17
				003005	064968	020-5130-437.40-55	170.68
				003006	064968	020-5100-437.40-55	79.41
				003007	064968	020-5120-437.40-55	13.07
				003008	064968	020-5205-419.40-55	508.05
				003013	064968	020-0503-415.40-55	130.12
				003014	064968	020-5400-434.40-55	58.18
				003016	064968	020-5305-438.40-55	43.22
				003019	064968	020-5405-434.40-55	26.76
				003020	064968	020-5406-434.40-55	22.91
	9/25/2019	7724	WINDSTREAM	003027	9183572491	020-5415-435.50-22	69.90
				003028	9184513524	020-5415-435.50-22	76.98
						9/25/2019 TOTAL -	8,995.96
						CUMULATIVE TOTAL -	950,438.88
	9/26/2019	341	HOIDALE CO INC	003046	214985	020-5125-436.50-37	1,124.80
	9/26/2019	10360	JAVA DAVES EXECUTIVE COFFEE SE	003044	019861	020-5205-419.60-23	78.12
				003045	021709	020-5205-419.60-23	48.00
	9/26/2019	10901	STAPLES BUSINESS CREDIT	003047	17415641503	020-0503-415.60-24	276.58
				003048	17657799003	020-0503-415.60-23	15.00
						9/26/2019 TOTAL -	1,542.50
						CUMULATIVE TOTAL -	951,981.38
	10/01/2019	442	AMERICAN ELECTRIC POWER/ PSO	001553	9553052871	020-5405-434.50-25	13,361.35
				001554	9588213380	020-5405-434.50-25	46,352.86
				001577	95531125813	020-5415-435.50-25	6,053.05
				001980	9525931030	020-1700-419.50-25	1,951.79
				001982	9562931030	020-1700-419.50-25	2,612.76
				001984	9567510260	020-1700-419.50-25	95.07
	10/01/2019	8512	AT&T MOBILITY		287260663054/09	020-5120-437.50-22	106.80
					287260663054/09	020-5200-419.50-22	270.00
					287260663054/09	020-5200-419.50-54	226.38
					287260663054/09	020-5200-419.50-54	41.23
					287260663054/09	020-5215-419.50-54	98.62
					287260663054/09	020-5305-438.50-54	309.04
					287260663054/09	020-5400-434.50-54	202.61
					287260663054/09	020-5406-434.50-54	112.89
					287260663054/09	020-5415-435.50-22	41.23
					287260663054/09	020-5415-435.50-54	1,338.96
						10/01/2019 TOTAL -	73,174.64
						FUND 020 TOTAL -	1,025,156.02