

AGENDA
CITY OF CENTRALIA, MISSOURI
Board of Aldermen
Public Works and Public Utilities Committee

Tuesday, September 3, 2013

7:00 p.m.

City Hall Council Chambers

- I. ROLL CALL
- II. PLEDGE OF ALLEGIANCE
- III. COMMENTS FROM CITIZENS
- IV. ELECTRIC DEPARTMENT
 - A. Activity Report
 - B. Wholesale Distribution Service Agreement with Ameren Missouri
 - C. Accepting Easement and Vacating Another - New LaCrosse Lumber Site
 - D. Substation Testing
 - E. Other
- V. PUBLIC WORKS
 - A. Activity Report
 - B. Streets
 - 1. Excavation Permits
 - C. Sanitation
 - D. Stormsewer
 - E. Other
- VI. WATER AND SEWER DEPARTMENT
 - A. Activity Report
 - B. Requirements for Master Shut-offs
 - C. Other
- VII. OTHER
- VIII. AS MAY ARISE
- IX. ADJOURN

**ELECTRIC DEPT.
AUGUST 2013 ACTIVITY REPORT**

1. Hauled brush/yard waste as necessary
2. Repaired streetlights – Walnut/Head, Mayes Meadow (2), Jefferson/Tarr
3. Trimmed trees for line clearance – 906 E Booth
4. Total monthly readings – 66
5. Total monthly locates – 46
6. CHS/Rollins Project – Removed primary metering from pole at football field. Dug out around pole for foundation of pad mount metering and leveled with rock. Turned off computer building & football field, wrecked out overhead equipment, pulled meter pole, set new meter cabinet/pad, terminated 6 elbows, made connections at Cox St, tested cable, energized underground circuit, 720 S. Rollins, trenched, bored and installed conduit, 802 S. Rollins, trenched and installed conduit, terminated elbows at transformers, finished trenching to 806 S. Rollins, trenched service to 808 S. Rollins, trenched and installed conduit @ 814 S. Rollins, trenched and installed conduit @ 816 S. Rollins, started on 820 S. Rollins, terminated elbow connectors at pad mount transformers, tested cable, pulled wire at 102 Cox, 714 & 716 S. Rollins, CHS/Rollins project – pierced under shed and tree for UG service @ 820 S. Rollins, pulled wire at 720 & 802 S. Rollins, energized two pad mount transformers and services @ 102 Cox, 714, 720, & 802 S. Rollins, backfilled trench @ 820 S. Rollins, trenched and installed conduit at 902 S. Rollins, finished conduit @ 716 S. Rollins, pulled remaining wire, connected and energized service, wrecked out overhead lines from 102 Cox to 806 S Rollins, pulled in service wire at 806, 808, 814, 816 S Rollins, trenched and laid conduit at 904, 908 S Rollins, finished trenching and conduit at 904, 908 S Rollins, connected services at 808, 814 S Rollins, trenched at 912 S Rollins, connected services at 806 & 816 S Rollins, trenched and installed conduit @ 111 E. Gano Chance, pulled wire and connected 820 & 902 S Rollins, wrecked out old overhead wiring, etc. trenched and installed conduit @ 910 S Rollins, dressed up trenches, pulled wire and connected UG services at 904 & 908 S Rollins, cleaned up scrap conduit, etc. from project area, pulled wire and connected services @ 912, 910 S. Rollins & 111 E. Gano Chance, cut down overhead service drops, Picked up old meter pole @ CHS football field, stored at WSS
7. 1389 E. Hwy. 22 – replaced pole #5228, transferred all lines, loaded transformer, hung transformer, finished conduit, pulled wire, made all connections, energized after inspection
8. Mowed at shop and WSS as necessary
9. 1389 E. Hwy. 22 –
10. 601 Green – connected temp service for remodel of house
11. 605 Pool – Pulled wire, connected new UG service
12. Loaded and delivered three new poles – 405 W. Hwy. 22, 703 N. Hickman, 106 W. Railroad
13. 106 W. Railroad – set new pole for future service to office/apartment building
14. 1401 E. Hwy. 22 – Centralia Country Club, replaced two fuse @ transformer bank feeding irrigation pump house
15. Outage – phases faulted together at Switzler and Stone tripping out NE circuit, cleared and reset breaker, spliced one phase back together, moved center phase to pole top, added fused cutouts near Jefferson
16. East City Park – assisted with installation of disc golf course
17. 424 N. Fullenwider – tree fell on secondary wires, removed tree
18. LaCrosse Lumber/State Farm – Set two poles and anchors along Hwy 22 to prepare for new line to feed businesses.
19. 1017 Hampton – connected temp service
20. 821 Shawn Ct – connected temp service

21. Mowed pole line near tear drop at East City Park
22. Held pole along Pratt St with digger derrick while Street Department installed storm sewer pipe
23. Removed pole, D-D light, and wire at 419 N Allen St
24. 535 S. Rollins – disconnected service for demolition
25. 1218 Remington – connected temp service
26. 521 S Central – raised wires hanging low over backyard
27. 609 S Howard Burton Drive – connected new overhead service, trimmed tree and used existing service drop wire
28. Disconnected/reconnected 435 S Allen for resident replacing siding
29. 601 Hawthorn – moved service drop to new clevis on side of house
30. 306 S Allen – swung service drop to new service and connected
31. 229 S Collier – Trimmed limb, broken limb with beehive in it
32. Truck 38 – replaced battery and changed oil
33. Worked on billing adjustments for two commercial accounts
34. 804 S. Allen – connected new overhead service

**Wholesale Distribution Service Agreement
For
Centralia, Missouri**

This Wholesale Distribution Service Agreement (“Agreement”) dated _____, _____, is entered into, by and between Ameren Services Company, as agent for its electric utility affiliate, Union Electric Company d/b/a Ameren Missouri (“Owner”) and Centralia, Missouri (“Customer”) in order for Owner to provide Wholesale Distribution Service (“WDS” or “WDS Service”) to Customer. This Agreement supersedes all prior agreements for WDS Service entered into between Owner and Customer, and any of their predecessors. Owner and Customer are each referred to as “Party”, and collectively referred to as “Parties”.

WHEREAS, Owner is a transmission owning member of the Midwest Independent Transmission System Operator, Inc. (“Midwest ISO”), and transmission service across Owner’s transmission facilities is provided under the Midwest ISO Open Access Transmission, Energy and Operating Reserve Markets Tariff, as amended from time to time (“Midwest ISO Tariff” or “Tariff”); and

WHEREAS, Owner also owns distribution related electrical facilities (“Distribution Facilities”) that are subject to the provisions of the Midwest ISO Tariff; and

WHEREAS, Owner desires to make its Distribution Facilities available to Customer pursuant to rates, terms and conditions set forth in this Agreement;

WHEREAS, Customer desires to use Owner’s Distribution Facilities pursuant to rates, terms and conditions set forth in this Agreement.

NOW, THEREFORE, in consideration of the mutual promises hereinafter set forth and other good and valuable consideration, the receipt of which is hereby acknowledged, and intending to be legally bound, the Parties hereby agree as follows:

1. Effective Date and Term

This Agreement shall become effective on _____, or on such other date determined by the Federal Energy Regulatory Commission (“FERC”) (such date hereinafter referred to as the “Effective Date”).

2. WDS Charges

Customer shall pay the following rates and charges that apply to the requested WDS:

Issued by: Maureen Borkowski, Effective: _____
Vice President, Transmission, Ameren Services Company
Issued on: _____

Subject to, and in accordance with, the Principles Governing Charges and Loss Factors For Wholesale Direct Assignment Facilities, filed in FERC Docket No. ER00-255-000 (“Principles Agreement”), the charge for Wholesale Distribution Service facilities shall be computed at the annual rate of 16.42% times the original cost investment of the local distribution facilities assigned or allocated to Customer. The annual and monthly Distribution Facilities Charge for WDS provided under this Wholesale Distribution Service Agreement is \$167,976.00 per year, or \$13,998.00 per month. The Customer Charge known as the Transmission Contract Administration Charge shall be \$100.00 per month and shall be in addition to the Distribution Facilities Charge specified in this paragraph. If additional facilities are installed on Owner’s system, the Distribution Facilities Charge shall be modified and this Agreement shall be revised to reflect the costs of such additional facilities, provided such modification is in accordance with the Principles Agreement or any agreement replacing the Principles Agreement or FERC approved methodology replacing the Principles Agreement.

3. Metering - Loss Adjustment Factors

Subject to, and in accordance with, the Principles Agreement, for purposes of computing Customer’s charges hereunder, metered loads shall be increased for losses occurring between Owner’s Transmission System and Customer’s metering points by multiplying Customer’s metered load by 1.0150 to account for the appropriate distribution loss factor of 1.50 %.

4. Transmission Service

Nothing in this Agreement conveys a right to transmission service under the Tariff. Customer shall separately obtain transmission service subject to the rates, terms and conditions of the Tariff.

5. Force Majeure

Owner or Customer shall not be considered in default as to any obligation under this Agreement if prevented from fulfilling the obligation due to an event of Force Majeure. However, if Owner’s or Customer’s performance under this Agreement is hindered by an event of Force Majeure, it shall make all reasonable efforts to perform its obligations under this Agreement. An event of Force Majeure means any act of God, labor disturbance, act of public enemy, war, act of terrorism, insurrection, riot, fire, storm or flood, explosion, breakage or accident to machinery or equipment, any curtailment, order, regulation or restriction imposed by governmental military or lawfully established civilian authorities, or any other cause beyond Owner’s or Customer’s control.

6. Limitation of Damages

In no event shall either Owner or Customer be liable under this Agreement or under any cause of action related to the subject matter of this Agreement, whether based on contract, warranty, tort (including negligence), strict liability, indemnity, or otherwise for any incidental, special, punitive or consequential damages including, but not limited to, loss of use, increased costs of purchased or replacement power, interest charges, inability to operate at full capacity, lost profits, or claims of Customer's customers or members. Owner shall not be liable to the Customer, its customers or members for damages caused by interruption of service, voltage or frequency variations, single phase to three phase lines, reversal of phase rotation, or carrier-current frequencies imposed by Owner for system operations or equipment control except such as result from the failure of Owner to exercise Good Utility Practice in furnishing the service. Customer should install protective equipment if such occurrences might damage its apparatus.

7. Assignment

This Agreement may be assigned by a Party, without the consent of the other Party but with prior written notice, to any entity or entities in connection with a merger, consolidation, reorganization or other change in the organizational structure of the assigning Party, provided that the surviving or successor entity(ies) agree(s), in writing, to assume the assigning Party's obligations and duties under, and be bound by, the terms of this Agreement and further satisfy one of the following criteria:

- (a) the assignee has an Investment Grade Credit Rating;
- (b) the obligations of the assignee are guaranteed by a parent with an Investment Grade Credit Rating; or
- (c) the assignment is being made in connection with a merger, consolidation or sale of substantially all the assignor's assets to another party that has an Investment Grade Credit Rating at least equal to that of the assignor.

8. Regulatory Approval

This Agreement shall be subject to the approval of the regulatory agencies having jurisdiction. This Agreement will be filed with FERC for approval under Section 205 of the Federal Power Act as soon as practicable after its execution by the Parties. The Parties agree to support such filing, to reasonably cooperate with respect to the filing, and to provide any information, including the filing of testimony, reasonably required to comply with applicable filing requirements.

9. Modification of Agreement

Notwithstanding any other provision in this Agreement to the contrary, Owner has the right to modify this Agreement at any time upon a change in Customer’s service or when a cost of service or loss factor study performed by Owner indicates a need for such modification.

In addition, notwithstanding any provision in this Agreement to the contrary, any Party may unilaterally make application to the FERC under Sections 205 or 206, as applicable, of the Federal Power Act and pursuant to FERC’s rules and regulations promulgated thereunder for a change in any rate, term, condition, charge, classification of service, rule or regulation, under or related to this Agreement over which the FERC has jurisdiction.

10. Counterparts

This Agreement may be executed in two or more counterparts, each of which shall be deemed an original but all of which together shall constitute one and the same instrument.

11. Contacts

Ameren Services Representative and Address

Kay Janeen Tapscott
Ameren Services
Supervisor, Transmission Services Business Ctr.
370 S. Main St.
Decatur, IL 62523

Customer Representative and Address

Lynn Behrns
City of Centralia
City Administrator
114 S. Rollins
Centralia, MO 65240

IN WITNESS WHEREOF, the Parties have caused this Service Agreement to be executed by their respective authorized officials.

Ameren Services Company,
As agent for Union Electric Company
d/b/a Ameren Missouri

Centralia, Missouri

By: _____
Name: _____
Title: _____

By: _____
Name: _____
Title: _____

DISTRIBUTION INVENTORY SURVEY
CITY OF CENTRALIA
2012

DESCRIPTION	Length (mi.)	Original Costs (\$)	Centralia Load (MW)	Total Load (MW)	%CTRL Original Costs	%CTRL Original Costs
SUBSTATIONS						
ADAIR	(-)	1,655,563	0.8	83.6		\$0
CALUMET	(-)	814,375	0.5	31.7		\$0
GUTHRIE	(-)	1,652,031	3.0	62.8	5.7%	\$93,740
MOBERLY	(-)	2,320,586	5.2	109.5	5.7%	\$131,675
MONTGOMERY	(-)	942,771	0.7	37.3		\$0
PIKE	(-)	3,082,385	0.9	41.6		\$0
CENTRALIA	(-)	477,076	10.2	18.2	55.9%	\$266,762
SUB-TOTAL		10,944,787				\$492,177
DISTRIBUTION VOLTAGE LINE SECTIONS						
MOB-HRNR-41;SINN-HRNR-41	4.72	680,184	2.5		11.4%	\$77,296
MOB-HRNR-44	5.10	636,670	3.5		11.4%	\$72,351
SINN-HRNR-43	2.18	111,719	3.5		11.4%	\$12,696
CTRL-SINN-42	18.25	185,167	5.9		11.4%	\$21,042
ADRN-CTRL-41	15.92	230,902	4.5		11.4%	\$26,240
GUTH-ADRN-44	33.87	218,952	1.6		11.4%	\$24,882
GUTH-ADRN-42	19.22	124,834	1.5		11.4%	\$14,186
GUTH-ADRN-42	14.65	69,978	1.4		11.4%	\$7,952
CTRL-71 (to Chance)	5.23	104,032	10.2	15.0	68.1%	\$70,797
CTRL-71 (to Gibson)	0.21	15,903	9.8	12.4	78.8%	\$12,531
CTRL-71 (to CTRL Tap)	0.38	40,951	9.8	9.8	100.0%	\$40,951
CTRL-71 (to Wilson St) _{2&3}	0.72	149,909	4.1	4.1	100.0%	\$149,909
SUB-TOTAL		2,569,201				\$530,834
GRAND TOTAL		\$13,513,988				\$1,023,012

MONTHLY CHARGE (0.1642 x Grand Total / 12 mo) **\$13,998.21**

Regional Network Line Usage	
Moberly Bulk Sub Load =	109.5
Moberly Distr Sub Load =	10.6
BRFD-MOB-43 =	12.2
MOB-MACN-42 =	5.6
Net Load =	81.1
Guthrie Bulk Sub Load =	62.8
COZ Division Load =	54.3
ADRN-MEX-43 =	3.3
Net Load =	5.1
CTRL Region Load =	86.2
City of CTRL Load =	9.8
% City of CTRL Load =	11.4%
Regional Bulk Xfmr Usage	
Moberly Sub Load =	109.5
Guthrie Sub Load =	62.8
Total Transformer Load =	172.2
City of CTRL Load =	9.8
% City of CTRL Load =	5.7%

\$2,051 Wilson St. Addition (24%)
 \$3,489 Due to 66% increase in load (41%)

NOTES:

- All loads are non-coincidental peak values.
- Original cost of tap to serve new Wilson Street Substation is \$72,318 (1-19-2012 per Bryan Sherrow - Division Engineer)
- Original cost of line from Centralia City Sub to Wilson Street Sub is \$77,591 (3-06-2012 ratioed from next upstream line section)



SD Myers, Inc. 180 South Avenue, Tallmadge, OH 44278

August 30, 2013

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Analytical Services Quotation

Customer No. 7023020
CENTRALIA POWER & LIGHT DEPT
MARK MUSTAIN
114 S ROLLINS
CENTRALIA, MO 65240

Equipment Location:
CENTRALIA POWER & LIGHT DEPT
MARK MUSTAIN
310 North Columbia St.
CENTRALIA, MO 65240

Quotation No. 10122765

SD Myers, Inc. (SDMI) Analytical Services is pleased to submit this quotation for your review and approval. Per our discussion, our pricing will be as follows:

Item No.	Description	Unit Price	Qty.	Amount
4000	CriticalPac TC's: 1, 3	195.00	2	390.00
4004	LTCPac TC's: 2, 4	70.00	2	140.00
4066	Filming Cmpds/particles TC's: 2, 4	100.00	2	200.00
4104	Maintenance Assessment Report TC's: 1-4	50.00	4	200.00
4500	Service Charge - < 1 Day	350.00	1	350.00
			TOTAL:	1,280.00

Quoted prices are valid for one hundred and twenty (120) days and contingent upon the quoted test quantities. Any change to the number or type of tests could result in a change in quoted prices.

If you need more information or have any questions about these or additional tests please do not hesitate to contact me at (800) 444-9580 ext. 3903 or Brian.Carpenter@sdmyers.com. Upon approval please confirm via email or fax to (330) 633-8081.

Regards,

Brian Carpenter
Diagnostic & Analytical Coord.
SD Myers, Inc.

Company Overview

SDMI has been in the business of testing liquid filled electrical equipment since 1965. From that time we have served tens of thousands of customers and have collected more customer and analytical data than anyone in our industry. This includes millions of transformer test records on hundreds of thousands of transformers. Our database continues to grow as we analyze hundreds of thousands of samples annually to determine reliable life of electrical equipment. In addition to our analytical services we also offer field service consulting to help our customers understand their electrical equipment problems and to understand the type of field services they require. We also offer a variety of educational seminars and materials through our Transformer Maintenance Institute (TMI). Our TMI materials and courses are designed to help individuals better understand their electrical equipment to prevent premature failures and unexpected power outages. Other services offered are international engineering services to help with moisture reduction and PCB removal.

Scope of Work Summary

SDMI will provide the following services for the preventative maintenance of your liquid filled electrical equipment which are further defined in this quote:

1. Scheduling of SDMI's Mobile Diagnostic Technician.
2. Perform on-site sampling of liquid filled electrical equipment, equipment inspection, nameplate and equipment data collection.
3. Safely ship samples to our Tallmadge, Ohio lab facility.
4. Test liquid, perform test result analysis, and provide service recommendations.
5. Provide Transformer Dashboard website access to view test results, analysis, recommendations, and reports.**

Scheduling

An SDMI representative will contact you to schedule work. The normal work week for SDMI technicians is Monday through Friday. Weekend work and/or specific dates must be scheduled in advance and may result in additional charges.

Liquid Filled Electrical Equipment Sampling

SDMI will provide a qualified technician, tools, supplies, and approved containers to obtain representative samples of liquid from specified electrical equipment. The technician will also perform a visual inspection of the specified equipment, complete a field report and package sample containers for shipment. The samples and field reports will be shipped to SDMI laboratory for analysis. You must provide the SDMI technician with an escort competent in the knowledge of environmental and safety regulations pertaining to your facility to accompany technician while on site. Your escort will also be responsible for inspecting all equipment worked on and assuring that all valves are properly and securely closed and no leaks are present. SDMI technicians reserve the right to decline any portion of work they deem to be hazardous or unsafe.

Safety

SDMI provides an average of 40 hours of training per year to all of our field technicians including, but not limited to, OSHA 10 hour General Industry Practices, Hazwoper and NFPA 70E training. This training and proper use of personal protective equipment prepares technicians to safely enter substations and collect samples from most energized equipment. To further ensure safety procedures and proper sampling procedures are adhered to, SDMI performs periodic check rides with all of our technicians.

Insurance

SDMI carries various types of insurance to industry standards. If it is necessary for you to obtain a copy of SDMI's certificate of insurance please let your SDMI representative know as soon as possible to avoid any delays in scheduling.

Waste Disposal

To collect a representative sample it is necessary to flush a volume of fluid from the sample valve prior to collecting the sample. This fluid is classified as waste generated by the customer. SDMI technicians are not permitted to remove waste fluid from your site. You are responsible for the proper disposal of all waste fluids generated on site. You should consult federal and state agencies to identify applicable regulations for proper disposal.

Sample Shipping Information

When shipping samples domestically to a laboratory, you must abide by all regulations listed in the Code of Federal Regulations (49CFR). International shipping must abide by IATA (International Air Transportation Association) regulations. SDMI guarantees its customers that the shipping of samples will be in accordance with these regulations. This protects you from any spills and or liabilities that may occur due to improper shipping.

Testing, Analysis, and Recommendations

All testing will be performed in accordance with ASTM International or other similar standards. Sample test analysis will be evaluated and a report generated for each piece of electrical equipment tested. Reports may include equipment nameplate data, additional equipment data, if applicable, visual inspection data, test results, and test analysis. An Executive Recap Report of all electrical equipment tested in this quote will also be generated to include a summary of the equipment information, test result analysis, and service recommendations. Lab Express results will not contain an Executive Recap Report or any test analysis.

Rush Analysis

If you request an expedited or rush analysis, additional charges will apply. Contact your SDMI representative to discuss additional charges and any necessary arrangements for expedited or rush turnaround.

Transformer Dashboard

For most purchases, analytical data pertaining to each piece of electrical equipment tested, including the reports listed above will be available via SDMI Transformer Dashboard at www.transformerdashboard.net. An email notification will be sent to each individual authorized to view test results immediately after testing is complete. The notification e-mail will provide further instructions for accessing test results. OCR results will not be available through Transformer Dashboard.

Maintenance Assessment Report

Optional Maintenance Assessment Reports are available for each piece of oil filled electrical equipment tested. Maintenance Assessment Reports are a detailed description of the recommended maintenance (including repairs and reclaiming) needed on each piece of equipment based on the test results of the equipment. The Maintenance Assessment Report is a great tool to present to your supervisors, ISO Personnel, and insurance agents. This report takes the guesswork out of what service needs to be done on "QU" (Questionable) and "UN" (Unacceptable) test results. It also gives a clean bill of health on the "AC" (Acceptable) units. Should you have any further questions or would like to see an example of the Maintenance Assessment Report please contact your SDMI representative.

Payment

Payment terms are Net thirty (30) from date of invoice with no discounts.

Terms and Conditions

This quotation is subject to SDMI Analytical Services Terms and Conditions (Revision #2), attached.

Quote Number 10122765

Project Acceptance

Thank you for your consideration of this proposal. If you would like to move forward, please sign and return this completed form via email or fax it to (330) 633-8081. I thank you again for this opportunity to serve you. If you have any further questions, please call me at (800) 444-9580 ext. 3903.

The undersigned agrees to all the above scope of work as stated and agrees to accept SDMI Analytical Services Terms and Conditions (Revision #2).

CENTRALIA POWER & LIGHT DEPT

SD Myers Inc.

Signature

Signature

Name (print)

Brian Carpenter

Name (print)

Diagnostic & Analytical Coord.

P.O. Number

Title

Date

Date



MaxLife Analytical Test Packages

ITEM	PACKAGE	ITEMS INCLUDED IN PACKAGE *	RECCOMENDED FOR THIS EQUIPMENT
4000	CRITICAL PAC	4041, 4042, 4043, 4046, 4047, 4050, 4054	Any apparatus critical to your operation
4001	POWER PAC 1	4041, 4042, 4043, 4046,4047, 4054	69-230 kV transformers with forced oil cooling
4002	POWER PAC 2	4041, 4042, 4043, 4047, 4054	69-230 kV transformers
4003	DISTRIBUTION PAC	4041, 4042, 4043	Distribution class apparatus
4004	LTC PAC	4041, 4042, 4043	Load Tap Changers
4005	REG PAC SINGLE	4041, 4042, 4043	Regulators
4006	REG PAC THREE	4041, 4042, 4043, 4047, 4050, 4054	Regulators
4007	REG PAC STEP	4041, 4042, 4043, 4047, 4050, 4054, 4066	Regulators
4008	OCB PAC	4041, 4042, 4043	Oil Circuit Breakers
4009	SWITCH PAC	4041, 4042, 4043	Switch Gear
4010	S-FLUID PAC	4041, 4042, 4043	Apparatus filled with special fluids
4012	LTC CRITICAL	4041, 4042, 4043, 4066	Load Tap Changers
4051	SIL PAC	4041, 4042, 4043	Silicone filled transformers
4052	ASK PAC	4041, 4043, 4050	Askarel filled transformers
4058	WEC PAC	4041, 4043	Wecosol filled transformers
4060	SIL PAC PLUS	4041, 4042, 4043, 4050	Silicone filled transformers with furan test
4063	FR3/BIOTEMP PAC	4041, 4042, 4043, 4050, 4054	Apparatus with natural and synthetic ester fluids

* For the description of the item numbers, see the following page.

MaxLife Tests and Their Significance

ITEM	ANALYSIS	ASTM #	IEC #	SIGNIFICANCE
4041**	Liquid Screen Test	**	**	The seven (7) tests indicated with (**) are included in the S.D. Myers, Inc. Liquid Screen Test
4041**	Neutralization Number **	D 974	60296	Measures acidic constituents; reveals chemical change or deterioration
4041**	Interfacial Tension **	D 971	60296	Detects soluble polar contaminants and products of deterioration
4041**	Dielectric Breakdown Voltage **	D 877	60156	Measures ability of insulating liquid to withstand electric stress without failure; Indicates presence of contaminating agents
4067	Dielectric Breakdown Voltage	D 1816		Method for use on oil being processed into apparatus. Should not be used for new oil
4041**	Color **	D 1500	60296	Increase in color number indicates deterioration of insulating oil
4041**	Specific Gravity **	D 1298	60296	Influences the heat transfer rates and may determine suitability for use in specific applications
4041**	Visual Examination **	D 1524		May detect unusual color changes or contamination with particulate matter
4041**	Sediment **	D 1524		Notes particles in the sample: none, light, medium or heavy
4047	Oxidation Inhibitor Content	D 2668	60666	Measures the amount of inhibitor remaining after oxidation have reduced its concentration
4054	Liquid Power Factor (Dissipation Factor)	D 924	60247	Measures dielectric losses in an oil; indicates presence of contaminants or deterioration products
4043	Karl Fischer (Water Content)	D 1533	60814	High water content may make a dielectric liquid unsuitable for some electrical applications
4050	Furanic Compounds	D 5837	61198	Determines the aging rate of paper insulation and the type and extent of damage
4042	Gas Content	D 3612	60567	The rate of gas generation and changes in concentration of specific gasses over time may be used to evaluate the condition of electrical apparatus
4046	Dissolved Metals (ICP)	D 7151		Determines the amount of metals in solution; in conjunction with other tests is a diagnostic tool for transformer operation
4044	Polychlorinated Biphenyls (PCB)	D 4059	60997	Measures the amount of PCB's present in oil in order to handle and /or dispose of in the manner prescribed by law
4090	Degree of Polymerization	D 4243		Measures the remaining life of the paper insulation
4081	Particle Count Distribution	D 6786		Provides a general degree of contamination level; useful in accessing the condition of specific types of electrical equipment
4066	Particle and Filming Compounds Analysis	Proprietary		Identifies particles and oxidation compounds
4087	Corrosive Sulfur	D 1275	315/86	Test for corrosive sulfur compounds in oil
4089	Flash Point	D 92	60034	Indicates the flammability of an oil
4091	Pour Point	D 97	3016	Indicates the lowest temperature to which oil may be cooled without limiting the circulation of the oil
4085	Resistivity	D 1169	60247	Measures electrical insulating properties of the liquid
4083	AGE (allyl glycidyl ether)			Measures remaining acid scavenger in Askarel units retrofilled with perchloroethylene
4084	Viscosity	D 445	3104	Measures oils resistance to flow

* For complete description and significance of tests refer to Industry standards IEEE 637 and ASTM Book of Standards, Volume 10.03

Terms and Conditions Analytical Services

These terms and conditions apply to all purchases of Analytical Services, from SD Myers, Inc., "Seller," or from its agents, employees, officers, representatives, or assigns. The term "Buyer" includes any person, customer, or entity, which may be involved with the selection, order, or use of Sellers services. These terms and conditions shall take precedence over Buyers supplemental or conflicting terms and conditions of which notice of objection is hereby given. These terms and conditions may only be waived or modified by written agreement signed by an authorized representative of the Seller.

PRICES AND QUOTATIONS:

Prices are subject to change without notice. Written quotes are firm for one-hundred and twenty (120) days from date of quote and are subject to change or termination if Buyer changes test type or quantity. All orders, contracts, terms and conditions are subject to final acceptance or rejection.

PAYMENT TERMS:

Payment terms are net thirty (30) days from the date of invoice with no discounts. Checks should include the invoice number(s) to insure credit to your account. Samples will be accepted only when accompanied by a valid purchase order or advance payment. Reports may be held if payments are past due. No orders contingent upon payment from a third party will be accepted.

ON-SITE SERVICE:

Seller will provide on-site service to obtain samples when requested by Buyer. Such service is at Buyers expense and will be reflected by a service charge on the invoice sent to Buyer.

ON-SITE DELAY/CANCELLATION:

It will be necessary for the Buyer to provide ready access at all times to the job site. Seller requires 72 hour notice for any schedule changes or cancellations. Failure to provide notification of cancellation or ready access could result in charges of up to \$800/day for every day of scheduled work.

ON-SITE SAFETY AND SERVICE RULES:

In order to comply in a prudent manner with environmental law and safety requirements while on Buyer's property, Buyer is to provide Sellers personnel with an escort, whom Buyer considers knowledgeable of environmental and safety regulations pertaining to Buyers plant. Sellers personnel reserve the right to decline any portion of the work they deem hazardous or unsafe. Buyers escort will accompany and instruct Sellers personnel in observing plant safety and environmental regulations, to inspect all equipment upon which Sellers personnel have worked and assure that all valves are properly and securely closed, plugged, or capped, and that there are no leaks from the valves or electrical devices. After inspection is complete, Buyer will have an authorized person sign Sellers Job Summary Form. In signing this form, Buyer will forever hold harmless and indemnify Seller, their employees, agents, or officers from any leaks or failures which may occur thereafter.

DELIVERY:

Shipping or delivery dates are quoted in good faith, however, the backlog and availability of labor and materials at time the order is received may affect the completion date. Approximate shipping dates will be provided on request by calling Sellers representative handling the order.

RUSH ANALYSES:

Rush analyses are available for an additional charge and must be arranged in advance. Rush turnaround time begins when samples are received at Sellers designated location. Normal working and sample receiving hours are 8:00 am to 5:00 pm, Monday through Friday. If, for unforeseen reasons, the rush turnaround time cannot be met, the normal price will apply.

DELAYS:

Seller assumes no liability for delays caused by strikes, riots, floods, fires, acts of God, or any cause beyond our control, and shall not be required to supply services to Buyer while interruption of service due to any such cause shall continue. In the event Seller is unable to perform due to such causes, Seller may terminate the order without any further liability to Buyer.

MAIL IN SAMPLE KITS:

Seller will provide site specific sampling kits and shipping containers free of charge within the continuous US with advance notice. Kits are shipped to Buyer via UPS, DHL, or Fed Ex with minimum 5 working day notice. Rush or courier services for shipping bottles to clients is available at additional cost. Return shipments to the laboratory must be freight prepaid unless otherwise arranged. Extra sample kits requested, but not used, may be charged to Buyer at \$5 per bottle and \$65 per syringe.

SAMPLE SUBMISSION:

When samples are submitted for analysis, the following minimum information is to be provided by Buyer: Buyer name, address, phone number, number and type of samples, analysis requested for each sample, sample site identification, date and time of sampling, date results are needed (rush samples require prior arrangement), and billing information (including purchase order number or authorization and contact name). Sample analysis is subject to acceptance of samples by Seller.

LIMIT OF LIABILITY:

The total liability of Seller, its owners, directors, officers, agents, employees or successor to the Buyer arising out of or in connection with the services to be provided herein shall not exceed the invoiced amount for said services. Buyers acceptance of a work order and/or proposal releases Seller from any liability in excess of the invoiced amount for the services. In no event shall Seller be liable for any special, indirect, incidental, or consequential damages including but not limited to: loss of profit or revenues, loss of use of equipment, damages to associated products or equipment, cost of capital, costs of substitute, facilities, downtime costs, labor or associated expenses, or claims of Buyers customers for such costs.

GOVERNING LAW AND ALTERNATE DISPUTE RESOLUTION:

Any disputes that arise between Buyer and Seller shall be governed by the laws of the state of Ohio without regard to conflicts of law rules. Any disputes that arise between the Buyer and Seller shall be submitted to binding arbitration by the American Arbitration Association, to be determined and resolved by said Association under its rules and procedures in effect at the time of submission and the Buyer and Seller hereby agree to share equally in the costs of said arbitration. Buyer hereby consents to arbitration in Ohio. The final arbitration decision shall be enforceable through the courts of the state of Sellers address or any other state in which the Buyer resides or may be located.

WAIVER:

Sellers failure to insist on performance of any term or condition contained in these terms and conditions or failure to exercise any of Sellers rights hereunder shall not constitute a waiver of any of Sellers rights under these terms and conditions.

SEVERABILITY:

If any provision(s) of these terms shall be held invalid, illegal, or unenforceable, such provision(s) shall be enforced to the fullest extent permitted by applicable law, and the validity, legality, and enforceability of the remaining provision(s) shall not in any way be affected or impaired thereby.

STREET & SANITATION DEPARTMENT

August 2013 Activity Report

- 👉 Daily trash collection
- 👉 Weekly cardboard and bi-weekly curbside recycling collection
- 👉 Wedged 7 bad areas on Howard Burton with assistance from Special Road District
- 👉 Assembled and delivered 8 trash carts
- 👉 Picked up trash truck from body shop in Columbia and got it back in service
- 👉 Cleaned up one of the pickups
- 👉 Met and talked with several homeowners about culverts
- 👉 Dug out and added 10' of 12" metal culvert to existing driveway at 1025 Fairview
- 👉 Formed and poured ADA ramp at ne corner of city square, then formed and poured 28' of sidewalk to complete sidewalk on east side of city square
- 👉 Hauled off 4 loads of plastic to Ryan Ent. in Millersburg
- 👉 Dug out and added 12' of 12" metal culvert to existing driveway at 315 s Hickman
- 👉 Hauled off 2 load of recycling to Civic Recycling in Columbia
- 👉 Spent 6 days hauling off brush from drop off site to the landfill brush pit
- 👉 Cleaned up concrete and saw cut sidewalk at 414 s Allen that contractor didn't do
- 👉 Formed and poured 10' of sidewalk on Rollins to connect crosswalk to sidewalk by Elementary School
- 👉 Trimmed some brush in alleys and blocking signs
- 👉 Did lots of locates this month
- 👉 Replaced no parking sign and post that was run over on Jefferson
- 👉 Replaced, straightened, and checked all of the crosswalk signs around the schools
- 👉 Met with Alderman Angell about mowing and parking spaces
- 👉 Mowed weed ordinance violation at the Country Club
- 👉 Pulled all of the signs on Switzler between Jefferson and Howard Burton for the street project
- 👉 Spent several days painting crosswalks and parking lines around town
- 👉 Met with Kyle Marcum and discussed widening alley behind NAPA
- 👉 Delivered 1 new dumpster to CIS
- 👉 Mowed ditches around town
- 👉 Met with homeowner at 312 s Jefferson about drainage concerns
- 👉 General maintenance on the trash trucks
- 👉 Dug out and set 80' of 24" plastic pipe and 2 inlets on Pratt for Don Brooks
- 👉 Hauled all of the steel plates from Switzler and piled at the street barn
- 👉 Hauled off debris pile at the street lot to the landfill
- 👉 Dug out and widened the alley behind NAPA
- 👉 Replaced stop sign and put up street name sign at Rodemyre and Walnut
- 👉 Made and installed street name sign at Rowland
- 👉 Bladed gravel parking lot at the bicentennial park
- 👉 Swept streets
- 👉 Tore out old culvert and set 32' of 10" metal culvert at 601 Hawthorn for Jim Berndt
- 👉 Assisted water dept with potholing for utilities on Switzler
- 👉 Attended several meetings on Switzler street project with Alderman, engineer, and others
- 👉 Dug around all of the inlets that are to be cut down on Switzler, and removed all of the storm sewer at Switzler and Pratt, and started reinstalling some of the storm sewer pipe on Pratt at a lower grade

BILL NO. _____

ORDINANCE NO. _____

A BILL TO CREATE AN ORDINANCE ENTITLED:

“AN ORDINANCE AMENDING ARTICLE IV OF CHAPTER 30 OF THE CENTRALIA CITY CODE PERTAINING TO EXCAVATIONS IN PUBLIC RIGHTS-OF-WAY AND ESTABLISHING A REQUIREMENT FOR PERMITS FOR SUCH EXCAVATION.”

BE IT ORDAINED BY THE BOARD OF ALDERMEN OF THE CITY OF CENTRALIA, MISSOURI, as follows:

SECTION 1. Article IV of Chapter 30 of the Centralia City Code is hereby changed, altered and amended to read as follows:

ARTICLE IV. EXCAVATIONS

SECTION 30-12. PROTECTION AROUND EXCAVATIONS.

Every person, officer or contractor making an excavation in any street, alley or public place, or on any premises adjacent to any alley, street or public place and not separated by a substantial fence or structure, shall guard and protect the same by barriers. Every person, officer or contractor digging or causing any such excavation to be dug and every person who shall occupy or cause to be occupied any portion of any public street, alley, or highway with building materials or any obstruction permitted by law or ordinance shall cause sufficient warning lights to be securely and conspicuously posted on or near such excavation, building materials or obstructions as will notify travelers of the existence of the same, and shall keep such lights burning during the entire night..

SECTION 30-13. REMOVAL OF EXCAVATED MATERIALS AND GENERAL REQUIREMENTS.

Any person who shall excavate in the paved portion of any public street, roadway, alley or sidewalk pursuant to a permit obtained from the City Administrator or a designated representative, as provided for in this chapter, shall remove all materials excavated and shall dispose of the same as soon as possible and prior to placing any backfill material into such excavations. Excavated materials shall be placed where they will cause the least possible inconvenience to the public. The width of excavation shall be no greater than necessary for doing the work.

SECTION 30-13.1. BACKFILLING.

- A. *Paved streets.* Any person who shall excavate in the paved portion of any public street, roadway, alley or sidewalk shall backfill such excavation with a fine stone aggregate material conforming to the following gradation: not more than fifteen (15) percent of the aggregate material shall be of organic material; not more than ten (10) percent of the aggregate shall be retained on a one-inch square mesh screen, and not less than twenty (20) percent of the aggregate shall pass a fourteen mesh screen. Backfill material shall be placed in horizontal layers no greater in final thickness than six (6) inches and shall be compacted by mechanical tamping or vibration.
- B. *Unpaved streets.* Any person who shall excavate in any unpaved portion of any public street, roadway, alley or sidewalk shall backfill such excavations as is provided for backfilling excavations in paved public streets, alley, and sidewalks or, upon the approval of the City Administrator or a designated representative, the material removed from such excavation may be used for backfill,

provided such material is placed in the excavation in lifts not exceeding six (6) inches and each lift being mechanically compacted to a relative density of ninety-five (95) percent, such backfill shall be inspected by the City Administrator or a designated representative to determine whether the requirements of this section have been fulfilled.

- C. *Parkways and grass areas.* Excavations in parkways, outside of the paved area of streets or walks, may be backfilled with earth, and all grass areas shall be returned to their original condition.
- D. All backfill shall be in accordance with the City of Centralia's "Specifications for Excavation Work", which shall be available from the City upon request.

SECTION 30-13.2. RESURFACING PAVED STREETS.

Any person who shall excavate in the paved portion of any public street, roadway, alley or sidewalk shall obtain the approval of the City Administrator or a designated representative, that the backfill meets the requirements of this article, and shall then resurface such excavation in a manner and with material similar to that which was removed. Such resurfacing shall be subject to the inspection and approval of the City Administrator or a designated representative. Such resurfacing may be performed by the excavator or his contractor or, at the request of such excavator, such resurfacing may be performed by the Street Department at the cost of such excavator.

SECTION 30-13.3. PERMITS.

- A. No person shall make or suffer to be made withing the City any excavation in any public street, place, walkway, right-of-way or easement unless and until a permit for such excavation has been obtained from the City Administrator or a designated representative in accordance with the provisions of this article. No exception to the requirements shall be permitted except:
 - (1) Public work done by authority of the Missouri State Highways and Transportation Commission, or of the Board of Aldermen, and
 - (2) Emergency work done under the provisions Section 13-13.3().
- B. Application for an excavation permit shall be made in writing to the City Administrator. The application shall contain such information as the City Administrator may require regarding the purpose, location and size of the proposed excavation and the approximate time when the work thereon will be commenced and completed. A separate permit shall be required for each excavation and a fee of [twenty dollars (\$20.00)] shall be paid by the applicant to the City for each such permit issued.
- C. Franchise utility services making several excavations as a part of a larger project shall have the option, with the permission of the City Administrator or a designated representative, to apply for a general permit for the entire project for a fee of [twenty dollars (\$20.00)]. Application for such a general permit shall include a set of plans, site plans, and specifications as used by the utility's employees or contractors for said project. Franchise utility services having occasion to make frequent excavations in any public place, street, walkway, right-of-way or easement, shall not be require to pay the permit fee each time an application is made therefor, but may be billed on a monthly basis for such fees and costs.
- D. Every applicant for an excavation permit shall register with the City Administrator [City Clerk?] proof that the applicant is maintaining liability insurance in the sum of three hundred thousand dollars (\$300,000.00) covering liability for death, bodily injury and property damage attributable to the excavation or restoration work done under a City permit or in consequence of any neglect in safeguarding such work. Such liability insurance shall be in such form as to hold indemnify the City from

all claims and damages arising from the prosecution of such excavation and restoration work and activities incident thereto. The insurance policy shall list the City as an additional named insured, shall be carried with an insurance company which has been licensed or permitted to carry on such business in the State of Missouri, and shall be kept and maintained continuously in force and effect so long as the excavation and resurfacing work shall be in process. The applicant shall furnish the City with a certificate of the insurer that the policy is in full force and effect and that the policy will not be altered, amended, terminated or ended without notice having been given to the City prior thereto. The proof insurance required for issuance of a plumbers licence under Section 23-65 of Centralia City Code shall be deemed to satisfy the requirements of this subsection.

E. In lieu of the insurance as herein provided, the applicant may deposit a corporate or other surety bond satisfactory to the City Administrator in the penal sum of three hundred thousand dollars (\$300,000.00), conditioned that he will pay any judgement recovered by any person by reason of death, bodily injury or property damage attributable to the excavation or restoration work done under a City permit or in consequence of any neglect in safeguarding such work; Such bond shall be in such form as to save harmless the City from all claims and damage arising from the prosecution of such excavation and restoration work and activities incident thereto.

F. If the insurance policy provided for in this section lapses and is not immediately renewed, or any bond terminates in any manner whatsoever and a substitute in lieu thereof is not deposited, the permit for the excavation shall be revoked immediately.

[required a cash bond?]

G. When the restoration work referred to in Section 30-13.2 of this Code is done by the person making, or causing to be made, the excavation, the street surfacing so replaced shall, for a period of one (1) year following the date of restoration, be the responsibility of the excavator, who shall bear all costs of maintenance on the repaved portion for such time. Failure to comply with the requirements of this section shall constitute a violation thereof, and the City may, in addition to prosecution for violation, properly maintain or repair any unsatisfactory replacement of street surface, and no further permits shall be issued to any person who has not corrected any deficiencies.

H. In case of an emergency where the public safety is in danger and the office of the City Administrator is not open, the provisions of this article relating to the issuance of permits prior to commencement of work of excavation shall not apply. In such case the person making the excavation shall notify the Centralia Police Department dispatcher that the emergency work is being commenced and the location thereof, and the work may proceed immediately, following the provisions set forth in this article. Final surfacing or temporary patches shall not be applied to the excavations until such time as the City Administrator or a designated representative has inspected and approved the backfill and issued a permit therefor. Application for the permit shall be made on the first day on which the office of the City Administrator is open after the work is commenced.

I. No permit shall be required for excavations made to install utilities and other features within any proposed public lands or rights-of-way of any proposed subdivision until a final plat is approved by the City and recorded with the Boone County Recorder.

SECTION 2. All ordinance or parts of ordinances in conflict herewith are hereby repealed.

SECTION 3. This ordinance shall take effect and be in full force and effect from and after the date of its passage and approval.

PASSED this 16th day of September, 2013.

Mayor

ATTEST:

City Clerk

This ordinance approved by the Mayor this 16th day of September, 2013.

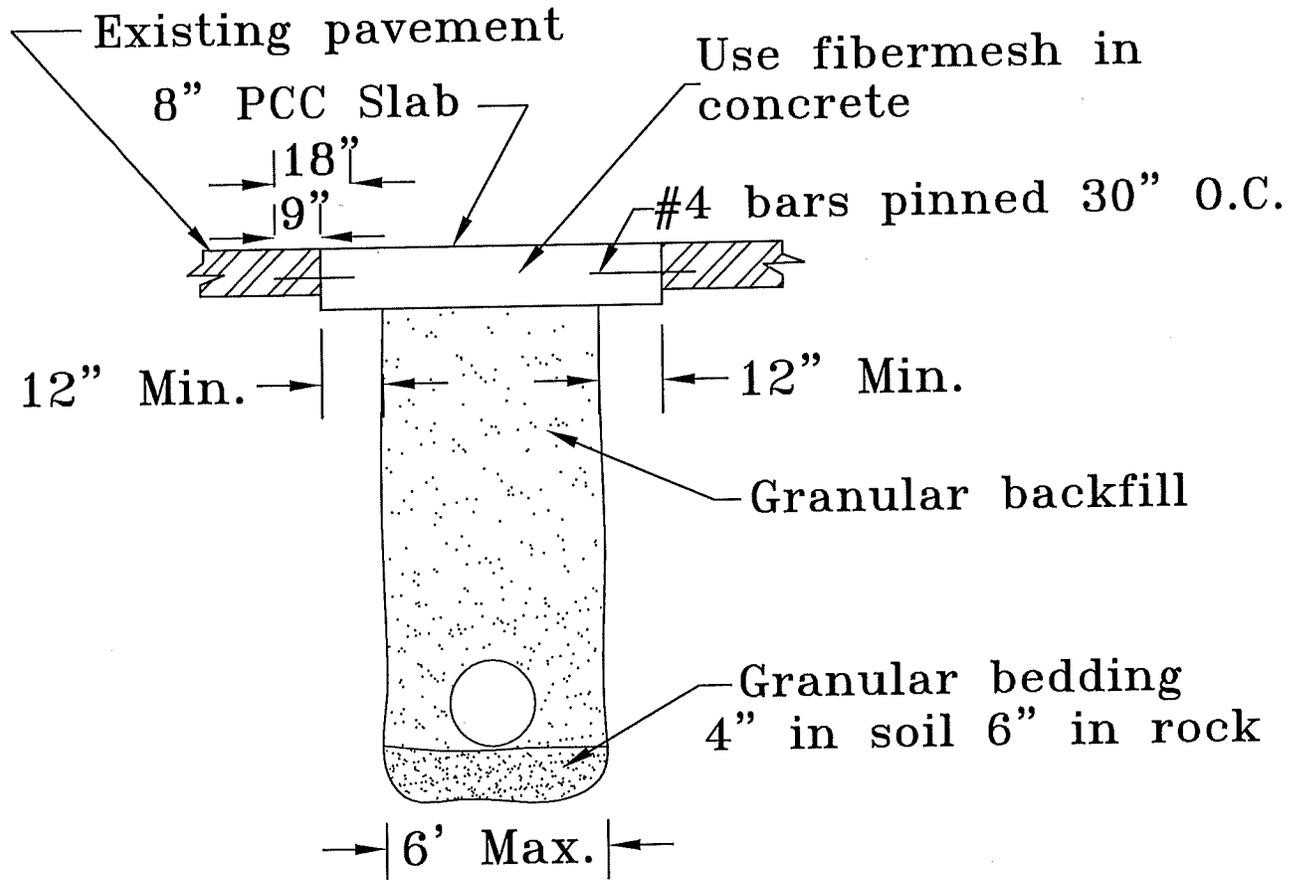
Mayor

ATTEST:

City Clerk

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PATCHING & BACKFILLING PAVED STREETS



EXISTING CONCRETE
OR ASPHALT PAVEMENT

**ACTIVITY REPORT
WATER DEPARTMENT
AUGUST 2013**

- Repaired leak on 6" water main at Lot #56 Tidball Trailer Court
- Repaired leak on 4" water main at Sunset / Whitman (45 in the main under storm sewer)
- Repaired leak on 6" water main at N. Rollins / Wigham
- Cut in 4" valve and tee at 106 Railroad (Russ Greene) for building remodel
- Lowered manholes at Stone and Lee street to grade for Switzler street project
- Changed out 12" valve at Sims pump house that was broke and stopped irrigation efforts
- Re-installed fire hydrant at Chris Ct. that was hit by truck earlier in year
- Ran service for 605 Pool and set meter jar and meter
- Met with the City of Sturgeon on sewer irrigation system
- Replaced and updated meter service at 101 Locust
- Raised manhole to grade at Tidball by S. Columbia for GIS measuring
- Raised manholes to grade at Coulter, Miles, behind Prengers, Sonic, behind Bormans office, and Wright Ct. with risers
- Cleared brush at Cobblestone Estates to find 4 manholes in woods
- Spent two days with Midland GIS locating and assisting with water valves and manholes
- Repaired leak on service at 450 S. Allen
- Made water tap and ran service at 923 Mystic Drive
- Made water tap at 878 Hampton Drive
- Made water tap at 941 Windset
- Made water tap at 821 Chris Ct.
- Made water tap at 821 Shawn Ct.
- Made water tap for Nick Bryson on Hampton
- Inspected sewer tap at 605 Pool
- Dirt work around main repair at 911 S. Rollins
- Mowed at both lagoons
- Met with boring crew at Chance's on bore under Jefferson street
- Programmed 37 new radio's
- Inspected sewer tap at Don Brooks property at Pratt / Switzler
- Used vac trailer to spot water main and services and sewer services on Switzler
- Used vac trailer to change broken meter jar at 726 N. Allen
- Met with engineer and street contractor at Switzler on grade controls
- Changed leaking key valve at 607 S. Allen
- Read monthly utility meters for billing purposes
- 11 disconnects for nonpayment