



STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

Jeremiah W. (Jay) Nixon, Governor • Harry D. Bozoian, Director

dnr.mo.gov

November 2, 2016

The Honorable Kathy Sasek, Mayor
City of Madison
209 S. Main Street
Madison, MO 65263

RE: C295658-01 City of Madison, MO – Madison Wastewater System Improvements,
MO-0096920, Construction Permit No. CP0001841

Dear Mayor Sasek:

The Missouri Department of Natural Resources' Water Protection Program has reviewed and approved the plans and specifications submitted by Shafer, Kline & Warren, Inc. for the city of Madison, MO. Please find enclosed Construction Permit No. CP0001841, one set of the approved plans and specifications and Addenda Nos. 1, 2, 3, and 4 for the collection system upgrades, and one set of the approved plans and specifications and Addenda Nos. 1, 2, and 3 for the wastewater treatment plant upgrades. You must maintain these with your official project file for a minimum of four years following completion of the project.

This permit will terminate 12 months from the date of issuance. In accordance with 10 CSR 20-6.010(4)(G), the department may grant an extension only one time. If you believe that an extension is necessary, you must submit a request and a justification in writing for the extension at least 30 days prior to the permit expiration date.

Nothing in this permit removes any obligations to comply with county or other local ordinances or restrictions.

If you were adversely affected by this decision, you may be entitled to an appeal before the Administrative Hearing Commission (AHC) pursuant to 10 CSR 20-1.020 and Section 621.250, RSMo. To appeal, you must file a petition with the AHC within thirty days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed; if it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the AHC. Contact information for the AHC is: Administrative Hearing Commission, United States Post Office Building, Third Floor, 131 West High Street, P.O. Box 1557, Jefferson City, MO 65102, Phone: 573-751-2422, Fax: 573-751-5018, and Website: www.oa.mo.gov/ahc.

The Honorable Kathy Sasek, Mayor
November 2, 2016
Page 2

If you have any questions concerning this matter, please contact Mr. Terry Nelson, P.E., of the Water Protection Program, at 573-526-2415 or Department of Natural Resources, Water Protection Program, P.O. Box 176, Jefferson City, MO 65102-0176.

Thank you for your efforts to help ensure clean water in Missouri.

Sincerely,

WATER PROTECTION PROGRAM



Shawn Muenks, P.E., SRF Engineering Unit Chief
Financial Assistance Center

SM:tnc

Enclosures

c: Ms. Elke Boyd, P.E., Shafer, Kline & Warren Inc.
Northeast Regional Office
Mr. Terry Nelson, P.E., Water Protection Program, Financial Assistance Center
Mr. David Potthast, Water Protection Program, Financial Assistance Center

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION



CONSTRUCTION PERMIT

The Missouri Department of Natural Resources hereby issues a permit to:

City of Madison
209 S. Main Street
Madison, MO 65263

for the construction of (described facilities):

See attached.

Permit Conditions:

See attached.

Construction of such proposed facilities shall be in accordance with the provisions of the Missouri Clean Water Law, Chapter 644, RSMo, and regulation promulgated thereunder, or this permit may be revoked by the Department of Natural Resources.

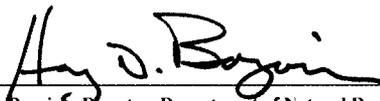
As the department does not examine structural features of design or the efficiency of mechanical equipment, the issuance of this permit does not include approval of these features.

A representative of the department may inspect the work covered by this permit during construction. Issuance of a permit to operate by the department will be contingent on the work substantially adhering to the approved plans and specifications.

This permit applies only to the construction of water pollution control components; it does not apply to other environmentally regulated areas.

November 2, 2016
Effective Date

November 1, 2017
Expiration Date


Harry D. Bozian, Director, Department of Natural Resources


Director, Water Protection Program

CONSTRUCTION PERMIT

The project will add ultraviolet (UV) disinfection, repair existing oxidation ditch equipment, convert the existing settling basin for sludge holding, construct a larger settling basin, and prevent discharge from the stormwater surge basin. Collection system repairs will be included and will entail replacing the pumps at the lift station, point repairs, lateral connection repairs, and lining of pipes and manholes.

The project also includes the construction and installation of all necessary appurtenances to make a complete and usable wastewater treatment facility. The project will also include general site work appropriate to the scope and purpose of the project.

PERMIT CONDITIONS:

The permittee is authorized to construct subject to the following conditions:

1. All construction shall be in accordance with the plans and specifications submitted by Shafer, Kline & Warren Inc. on May 13, 2016 and May 23, 2016; signed and sealed by Mr. Dennis Stith, P.E. on May 12, 2016 and May 20, 2016 respectively; amended on August 5, 2016, August 11, 2016, and September 1, 2016, and approved by the department on November 2, 2016.
2. Regulation 10 CSR 20-4.040(19)(B)1 requires that projects be publicly advertised, allowing sufficient time for bids to be prepared and submitted. Projects should be advertised at least 30 days prior to bid opening.
3. The department must be contacted in writing prior to making any changes to the approved plans and specifications that would directly or indirectly have an impact on the capacity, flow, system layout, or reliability of the proposed wastewater treatment facilities or any design parameter that is addressed by 10 CSR 20-8, in accordance with 10 CSR 20-8.110(8).
4. As per 10 CSR 20-4.040, all changes in contract price or time within the approved scope of work must be by change order in accordance with Section 20 of this rule.
5. This construction permit does not authorize discharge.
6. State and Federal Law does not permit bypassing of raw wastewater, therefore steps must be taken to ensure that raw wastewater does not discharge during construction. If a sanitary sewer overflow or bypass occurs, report the appropriate information to the department's Northeast Regional Office per 10 CSR 20-7.015(9)(E)2.

7. Protection of drinking water supplies shall be in accordance with 10 CSR 20-8.120(10).
“There shall be no physical connections between a public or private potable water supply system and a sewer, or appurtenance thereto which would permit the passage of any wastewater or polluted water into the potable supply. No water pipe shall pass through or come in contact with any part of a sewer manhole.”
- A. Sewers in relation to water works structures shall meet the requirements of 10 CSR 23-3.010 with respect to minimum distances from public water supply wells or other water supply sources and structures.
 - B. Sewer mains shall be laid at least ten feet horizontally from any existing or proposed water main. The distances shall be measured edge-to-edge. In cases where it is not practical to maintain a ten foot separation, the department may allow a deviation on a case-by-case basis, if supported by data from the design engineer. Such a deviation may allow installation of the sewer closer to a water main, provided that the water main is in a separate trench or on an undisturbed earth shelf located on either side of the sewer and at an elevation so the bottom of the water main is at least 18 inches above the top of the sewer. If it is impossible to obtain proper horizontal and vertical separation as described above for sewers, the sewer must be constructed of slip-on or mechanical joint pipe or continuously encased and be pressure tested to 150 pounds per square inch to assure water tightness.
 - C. Manholes should be located at least ten feet horizontally from any existing or proposed water main.
 - D. Sewers crossing water mains shall be laid to provide a minimum vertical distance of 18 inches between the outside of the water main and the outside of the sewer. This shall be the case where the water main is either above or below the sewer. The crossing shall be arranged so that the sewer joints will be equidistant and as far as possible from the water main joints. Where a water main crosses under a sewer, adequate structural support shall be provided for the sewer to maintain line and grade. When it is impossible to obtain proper vertical separation as stipulated above, one of the following methods must be specified:
 - 1) The sewer shall be designed and constructed equal to the water pipe and shall be pressure tested to assure water tightness prior to backfilling; or
 - 2) Either the water main or sewer line may be continuously encased or enclosed in a watertight carrier pipe which extends ten feet on both sides of the crossing, measured perpendicular to the water main. The carrier pipe shall be of materials approved by the department for use in water main construction.

8. In addition to the requirements for a construction permit, 10 CSR 20-6.200 requires land disturbance activities of one acre or more to obtain a Missouri State Operating Permit to discharge stormwater. The permit requires Best Management Practices sufficient to control runoff and sedimentation to protect waters of the state. Land disturbance permits may only be obtained by means of the department's ePermitting system available online at www.dnr.mo.gov/env/wpp/epermit/help.htm.

See www.dnr.mo.gov/env/wpp/stormwater/sw-land-disturb-permits.htm for more information.

9. A United States (U.S.) Army Corps of Engineers (COE) permit (404) and a Water Quality Certification (401) issued by the department or permit waiver may be required for the activities described in this permit. This permit is not valid until these requirements are satisfied. If construction activity will disturb any land below the ordinary high water mark of Jurisdictional Waters of the U.S. then a 404/401 will be required. Since the COE makes determinations on what is jurisdictional, you must contact the COE to determine permitting requirements. You may call the department's Water Protection Program at 573-751-1300 for more information.

See www.dnr.mo.gov/env/wpp/401/ for more information.

10. Upon completion of construction:
 - A. The city will become the continuing authority for operation, maintenance, and modernization of these facilities;
 - B. Submit the enclosed form Statement of Work Completed to the department in accordance with 10 CSR 20-6.010(5)(D); and
 - C. Submit an electronic copy of the as-builts.

AP 23742
CP0001841

Folder Tracking # COR 16289



MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM
**APPLICATION FOR CONSTRUCTION PERMIT –
WASTEWATER FACILITY**

FOR DEPARTMENT USE ONLY	
APP NO.	CP NO.
\$1000.00	CHECK NO. 1014
DATE RECEIVED	5-23-16

APPLICATION OVERVIEW

The Application for Construction Permit – Wastewater Facility form is for construction pertaining to domestic wastewater treatment facilities, agrichemical facilities, and components thereof. This form has been developed in a modular format and consists of Part A and B. **All applicants must complete Part A.** Part B should be completed for applicants who currently land-apply wastewater or propose land application for wastewater treatment. **Please read the accompanying instructions before completing this form. Submittal of an incomplete application may result in the application being returned.**

PART A – BASIC INFORMATION

1.0 APPLICATION INFORMATION (Note – If any of the questions in this section are answered NO, this application may be considered incomplete and returned.)

- 1.1 Is this a Federal/State funded project? YES N/A Funding Agency: CDBG/SRF Project #: C295658-01
 - 1.2 Is this an application for an agrichemical? YES (See instructions.) N/A
 - 1.3 Has the Missouri Department of Natural Resources approved the proposed project's antidegradation review?
 YES Date of Approval: Submitted with this application
 - 1.4 Has the department approved the proposed project's facility plan*?
 YES Date of Approval: _____ NO N/A (If Not Applicable, complete No. 1.5.)
 - 1.5 [Complete only if answered Not Applicable on No. 1.4] Is a copy of the engineering report* for wastewater treatment facilities with a design flow less than 22,500 gpd included with this application?
 YES NO
 - 1.6 Is a copy of the appropriate plans* and specifications* included with this application?
 YES Denote which form is submitted: Hard copy Electronic copy (See instructions.) NO
 - 1.7 Is a summary of design* included with this application? YES NO
 - 1.8 Is a general operating permit applicable?
 YES Submit the appropriate operating permit application to the Regional Office at least 60 days prior to operation.
 NO Enclose the appropriate operating permit application and fee submittal. Denote which form: B B2
 - 1.9 Is the facility currently under enforcement with the department or the Environmental Protection Agency? YES NO
 - 1.10 Is the appropriate fee included with this application? YES NO (See instructions for appropriate fee.)
- * Must be affixed with a Missouri registered professional engineer's seal, signature and date.

2.0 PROJECT INFORMATION

2.1 NAME OF PROJECT
Madison Wastewater Treatment Upgrades

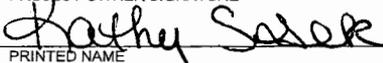
2.2 PROJECT DESCRIPTION
Upgrading the existing Oxidation Ditch equipment, constructing a new clarifier, converting the existing clarifier to a sludge holding basin, constructing sludge dewatering facilities, removing sludge from the existing single cell lagoon and the construction of a new UV disinfection system.

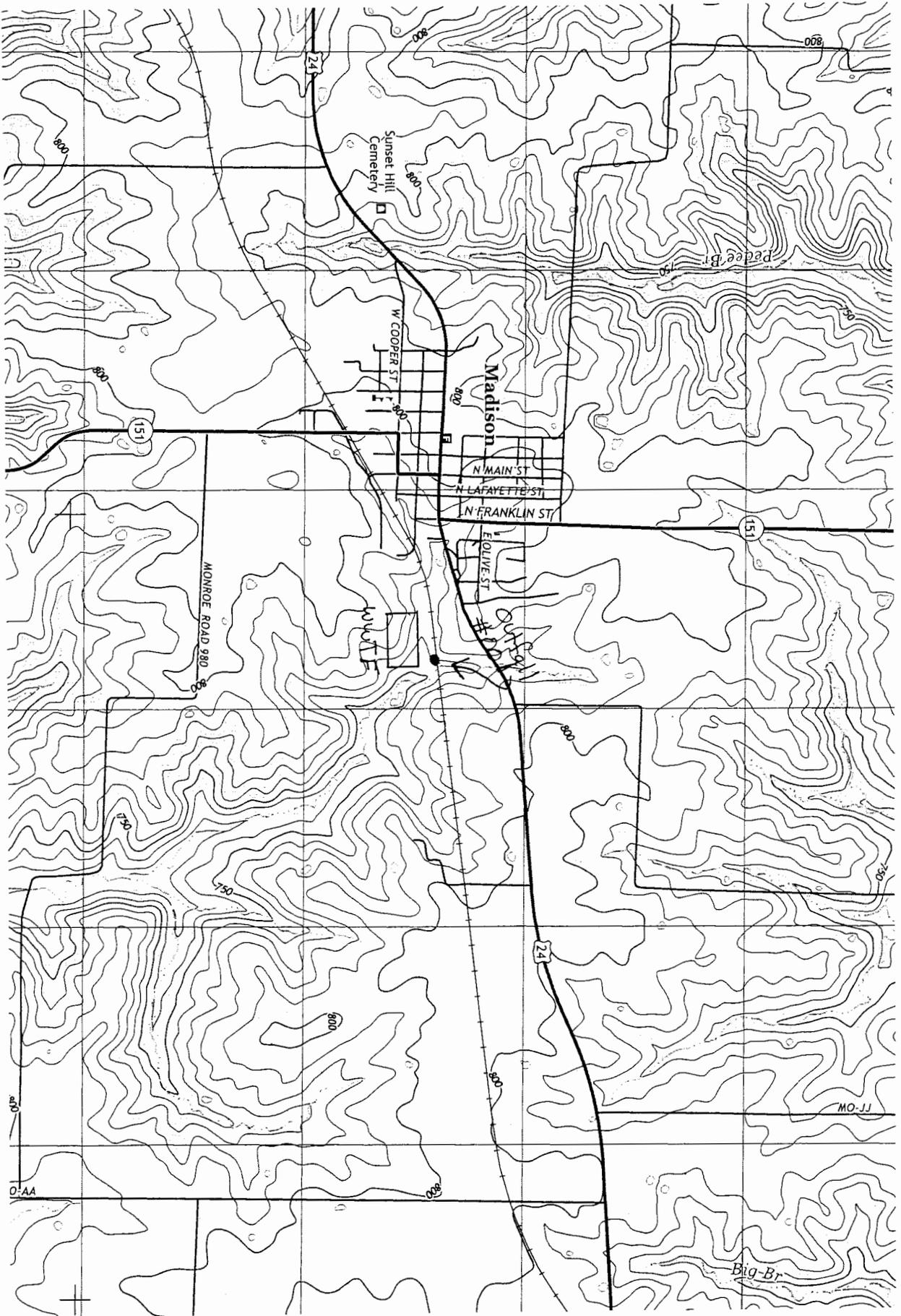
2.3 SLUDGE HANDLING, USE AND DISPOSAL DESCRIPTION
The existing plant discharges waste activated sludge to the peak flow lagoon. This project will remove accumulated sludge from the lagoon for land application. Improvements include sludge storage and dewatering of waste activated sludge for disposal at a landfill.

2.4 DESIGN INFORMATION
A. Current population: 554; Design population: 800
B. Actual Flow: 46,200 gpd; Design Average Flow: 80,000 gpd;
Actual Peak Daily Flow: 140,000 gpd; Design Maximum Daily Flow: 800,000 gpd;
Design Wet Weather Event: 800,000 gpd

2.5 ADDITIONAL INFORMATION
A. Is a topographic map attached? YES NO
B. Is a process flow diagram attached? YES NO

2.6 ESTIMATED PROJECT CONSTRUCTION COST
\$ 1,523,818.00

3.0 WASTEWATER TREATMENT FACILITY				
NAME Madison Wastewater Treatment Plant		TELEPHONE NUMBER WITH AREA CODE (660) 291-5253		EMAIL ADDRESS cityofmadisonmo@gmail.com
ADDRESS (PHYSICAL) Eastern terminus of East Marion St.	CITY Madison	STATE MO	ZIP CODE 65263	COUNTY Monroe
Wastewater Treatment Facility: Mo- 0096920 (Outfall 1 Of 1)				
3.1 Legal Description: ¼, NE ¼, NW ¼, Sec. 13 , T 54N , R 12W (Use additional pages if construction of more than one outfall is proposed.)				
3.2 UTM Coordinates Easting (X): 568573 Northing (Y): 4369562 For Universal Transverse Mercator (UTM), Zone 15 North referenced to North American Datum 1983 (NAD83)				
3.3 Name of receiving streams: Tributary to Elk Fork Salt River				
4.0 PROJECT OWNER				
NAME City of Madison		TELEPHONE NUMBER WITH AREA CODE (660) 291-5253		EMAIL ADDRESS cityofmadisonmo@gmail.com
ADDRESS 209 South Main St.	CITY Madison	STATE MO	ZIP CODE 65263	
5.0 CONTINUING AUTHORITY: Permanent organization that will serve as the continuing authority for the operation, maintenance and modernization of the wastewater collection system.				
NAME City of Madison		TELEPHONE NUMBER WITH AREA CODE (660) 291-5253		EMAIL ADDRESS cityofmadisonmo@gmail.com
ADDRESS 209 South Main St.	CITY Madison	STATE MO	ZIP CODE 65263	
5.1 A letter from the continuing authority, if different than the owner, is included with this application. <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A				
5.2 COMPLETE THE FOLLOWING IF THE CONTINUING AUTHORITY IS A MISSOURI PUBLIC SERVICE COMMISSION REGULATED ENTITY.				
A. Is a copy of the certificate of convenience and necessity included with this application? <input type="checkbox"/> YES <input type="checkbox"/> NO				
5.3 COMPLETE THE FOLLOWING IF THE CONTINUING AUTHORITY IS A PROPERTY OWNERS ASSOCIATION.				
A. Is a copy of the as-filed restrictions and covenants included with this application? <input type="checkbox"/> YES <input type="checkbox"/> NO				
B. Is a copy of the as-filed warranty deed, quitclaim deed or other legal instrument which transfers ownership of the land for the wastewater treatment facility to the association included with this application? <input type="checkbox"/> YES <input type="checkbox"/> NO				
C. Is a copy of the as-filed legal instrument (typically the plat) that provides the association with valid easements for all sewers included with this application? <input type="checkbox"/> YES <input type="checkbox"/> NO				
D. Is a copy of the Missouri Secretary of State's nonprofit corporation certificate included with this application? <input type="checkbox"/> YES <input type="checkbox"/> NO				
6.0 ENGINEER				
ENGINEER NAME / COMPANY NAME Dennis E. Stith, P.E. - Shafer, Kline & Warren, Inc.		TELEPHONE NUMBER WITH AREA CODE (660) 385-6441		EMAIL ADDRESS dennis.stith@skw-inc.com
ADDRESS 107 Butler St., P.O. Box 366	CITY Macon	STATE MO	ZIP CODE 63552	
7.0 PROJECT OWNER: I hereby certify that I am familiar with the information contained in this application and to the best of my knowledge and belief such information is true, complete, and accurate, and if granted this permit, I agree to abide by the Missouri Clean Water Law and all rules, regulations, orders, and decisions, subject to any legitimate appeal available to applicant under Missouri Clean Water Law. I also understand the issuance of the construction permit does not guarantee the proposed wastewater treatment will meet the required effluent limitations of the issued Missouri State Operating Permit for this facility.				
PROJECT OWNER SIGNATURE 				
PRINTED NAME Ms. Kathy Sasek			DATE 5/17/16	
TITLE OR CORPORATE POSITION Mayor		TELEPHONE NUMBER WITH AREA CODE (660) 291-5253		EMAIL ADDRESS cityofmadisonmo@gmail.com
Mail completed copy to: MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM P.O. BOX 176 JEFFERSON CITY, MO 65102-0176				
END OF PART A.				
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHETHER PART B NEEDS TO BE COMPLETE.				



NE 1/4, NW 1/4, Sec 13, T54N, R12W Monroe County, MO