

**ORIGINAL**



**COMMONWEALTH OF KENTUCKY**

**BEFORE THE PUBLIC SERVICE COMMISSION**

*In the Matter of:*

**ELECTRONIC APPLICATION OF )  
BIG RIVERS ELECTRIC CORPORATION )  
FOR A CERTIFICATE OF PUBLIC )  
CONVENIENCE AND NECESSITY TO )  
CONSTRUCT A 161 KV TRANSMISSION LINE )  
IN McCRACKEN COUNTY, KENTUCKY )**

**Case No.  
2021-00275**

**VERIFIED APPLICATION**

**And**

**APPLICATION EXHIBITS**

**FILED: September 22, 2021**

**ORIGINAL**

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<b>ELECTRONIC APPLICATION OF</b>	)	
<b>BIG RIVERS ELECTRIC CORPORATION</b>	)	
<b>FOR A CERTIFICATE OF PUBLIC</b>	)	<b>Case No.</b>
<b>CONVENIENCE AND NECESSITY TO</b>	)	<b>2021-00275</b>
<b>CONSTRUCT A 161 KV TRANSMISSION LINE</b>	)	
<b>IN MCCRACKEN COUNTY, KENTUCKY</b>	)	

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**VERIFIED APPLICATION**

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9           1.       Big Rivers Electric Corporation (“*Big Rivers*” or the “*Company*”)  
10 submits this application (the “*Application*”) pursuant to KRS 278.020(2), 807 KAR  
11 5:001 Sections 15 and 19, and 807 KAR 5:120, seeking (i) a certificate of public  
12 convenience and necessity (“*CPCN*”) to construct a 3.8 mile 161 kilovolt (“*kV*”)  
13 transmission line in McCracken County, Kentucky, and (ii) a finding that no  
14 CPCN is required for two related substation projects or, alternatively a CPCN for  
15 any of the projects that the Kentucky Public Service Commission (the  
16 “*Commission*”) determines require a CPCN. In support of its Application, Big  
17 Rivers states as follows:

18

**INTRODUCTION**

19           2.       As fully discussed in the Direct Testimony of Michael T. Pullen,  
20 attached hereto as Exhibit A and incorporated herein by reference, Big Rivers

1 proposes to construct the three transmission line or transmission substation  
2 projects listed below:

- 3       a.     Project A - A 3.8 mile, 161 kV transmission line circuit will be added  
4             from Big Rivers' existing McCracken County Substation to a new  
5             substation to be constructed adjacent to Jackson Purchase Energy  
6             Corporation's ("*Jackson Purchase*") Maxon Substation, proposed  
7             below as Project C. The majority of this circuit will be built above  
8             Big Rivers' existing 69 kV transmission line (the "*Line 21-O*"), with  
9             two slight alignment adjustments to accommodate clearance  
10            requirements at crossings with other transmission lines. As  
11            explained fully below, while some of Big Rivers' existing easements  
12            will need to be expanded, no new property owners will be effected.
- 13       b.     Project B - a 161 kV line terminal addition within Big Rivers'  
14             existing McCracken County Substation.
- 15       c.     Project C - a new 161/13.8 kV substation adjacent to Jackson  
16             Purchase's existing Maxon Substation in west Paducah at the  
17             Industrial West Park (the "*West Paducah Substation*").
- 18       d.     All proposed facilities will be located in McCracken County,  
19             Kentucky. 807 KAR 5:120 Sections 2(1)(b); 807 KAR 5:001 Section  
20             15(2)(c).

21

1           3.       As the all-requirements wholesale supplier for Jackson Purchase,  
2 one of Big Rivers' three distribution cooperative members (the "*Members*"), Big  
3 Rivers is obligated to provide Jackson Purchase with adequate voltage levels and  
4 acceptable facility loadings under all normal and single contingency conditions.  
5 The proposed transmission system improvement projects are needed to enable Big  
6 Rivers to fulfill that obligation by increasing the capacity of the existing 69 kV  
7 distribution system within Jackson Purchase's service territory.

8           4.       The existing 69 kV distribution system is inadequate to serve the  
9 anticipated load growth from economic development at the Industrial West Park  
10 in Paducah, McCracken County, Kentucky. The proposed construction projects  
11 will also provide Big Rivers the ability to enhance reliability to existing retail  
12 members of Big Rivers' Members. 807 KAR 5:120 Section 2(1)(b); 807 KAR 5:001  
13 Section 15(2)(c).

14           5.       Due to the length and voltage of the Project A transmission line,  
15 KRS 278.020 will require Big Rivers to obtain a CPCN for its construction.

16           6.       Big Rivers does not believe the other projects require a CPCN, and  
17 Big Rivers is seeking a finding from the Commission that no CPCN is required for  
18 those two projects. The authority of the Commission to issue such a finding is  
19 found in 807 KAR 5:001 Section 19. 807 KAR 5:120 Section 2(1)(a); 807 KAR  
20 5:001 Section 14(1).

21







1           15.     The proposed projects will increase capacity for the Industrial Park  
2 West area to 100 MW, enabling Big Rivers to serve Blockware, as well as other  
3 anticipated economic development in the Industrial Park West. Further details  
4 regarding the Industrial Park West economic development and the need for the  
5 proposed projects are provided in the Direct Testimony of Mr. Pullen.

6           16.     The proposed construction projects are required for the public  
7 convenience and necessity. The transmission line and substation projects will  
8 allow acceptable service to be provided to Jackson Purchase in light of the above  
9 referenced load growth in its service territory. The new construction will also  
10 enhance reliability for existing retail members. Additionally, Big Rivers  
11 anticipates a return on its investment as a result of the new construction being  
12 included in the rates for transmission service under Big Rivers' Open Access  
13 Transmission Tariff that could serve as an offset to future rate increases for Big  
14 Rivers' Members. 807 KAR 5:120 Section 2(1)(b); 807 KAR 5:001 Section 15(2)(a).

15           17.     The majority of the Project A transmission line will overbuild the  
16 existing 69kV transmission line and will follow the existing 69kV transmission  
17 line route, allowing Big Rivers to utilize existing rights-of-way. The Project A  
18 transmission line does require some expansion of existing easements, and as fully  
19 illustrated in the maps attached as Exhibit D, no new landowners will be affected  
20 by this proposed new circuit.

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*September 24, 1990 in Administrative Case No. 327, Case No. 2021-00282 (Originally filed as TFS No. 2021-00257).*

1           18.     The expansion of existing easements is required for three reasons.  
2 First, the general arrangement of Project B requires that the proposed 161 kV  
3 circuit enter the McCracken Substation on the North side, requiring expansion of  
4 the existing Big Rivers easement on the adjacent property by 62 ½ feet. Second,  
5 due to the additional height of the proposed 161 kV circuit, several existing  
6 easements will be expanded in order for Big Rivers to install additional guy boxes.  
7 Finally, the proposed route veers slightly from the existing transmission line’s  
8 alignment at two separate locations, in order to maintain the required phase-to-  
9 phase and phase-to-ground clearances at the crossing points with four  
10 transmission lines owned by Louisville Gas and Electric Company–Kentucky  
11 Utilities Company (“*LG&E-KU*”) or Tennessee Valley Authority (“*TVA*”).<sup>2</sup> At the  
12 first location, near the McCracken County Substation, Big Rivers proposes to  
13 rebuild the existing 69 kV line along a new alignment, allowing the new 161 kV  
14 line to be built along the existing 69 kV route. The new 69 kV alignment would  
15 require a 100 foot wide (50 feet either side of center line) easement expansion, as  
16 shown by Exhibit D. At the second location near Massac Creek, Big Rivers  
17 proposes to build the new 161 kV transmission line along a new alignment north  
18 of the existing 69 kV alignment. The existing 69kV line will be rebuilt along the  
19 existing 69 kV alignment. Along the new 161 kV alignment, the existing 50 foot  
20 wide easement will need to be expanded by 112 ½ feet. This is noted on the

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<sup>2</sup> Exhibit C and Exhibit D illustrate where the route of the Project A transmission line crosses a LG&E-KU 161 kV transmission line, two TVA 161 kV transmission lines, and a TVA 500 kV transmission line.

1 attached map in, Exhibit D.

2           19.     The Project A transmission line will involve the replacement of  
3 existing poles. The new poles will typically be constructed using monopole steel  
4 structures for tangent structures, and three-pole steel for angle structures and  
5 large angled dead-end structures. Conventional construction equipment will be  
6 used to frame and install the poles. The electrical conductors will then be strung,  
7 dead-ended, and clipped-in using conventional equipment and processes.  
8 Sketches of proposed typical structures are attached here to as Exhibit E. 807  
9 KAR 5:120 Sections 2(1)(b), (2)(b); 807 KAR 5:001 Section 15(2)(c).

10           20.     Because of the opportunity to overbuild the existing transmission  
11 line, no alternative routes for the proposed circuit were considered.

12           21.     A drawing of the McCracken County Substation’s existing layout and  
13 a drawing showing the Project B addition to the substation are attached hereto as  
14 Exhibit F. A drawing of Project C, the proposed West Paducah Substation is  
15 attached here to as Exhibit G. 807 KAR 5:001 Section 15(2)(c). In accordance  
16 with the Commission’s COVID-related Orders in Case No. 2020-00085, Big Rivers  
17 is not filing two paper copies of the maps or sketches.<sup>3</sup>

18           22.     Big Rivers will initially fund the proposed projects with general cash  
19 reserves, but it continues to investigate the best source of financing for the

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<sup>3</sup> As the Commission’s July 22, 2021, Order in Case No. 2020-00085 does not specifically reference 807 KAR 5:001 Section 15(2)(d)’s requirement for two (2) copies in paper medium of the maps and plan, specifications, and drawings, to the extent necessary, Big Rivers requests that the Commission allow it to deviate from the requirements of 807 KAR 5:001 Section 15(2)(d). The deviation requested is authorized by 807 KAR 5:001 Section 22.

1 construction costs. Big Rivers likely will seek financing for the projects from the  
2 Rural Utilities Service (“RUS”) or National Rural Utilities Cooperative Finance  
3 Corporation (“CFC”). As necessary under KRS 278.300, Big Rivers will seek  
4 approval of financing related to the projects’ cost in a subsequent proceeding. 807  
5 KAR 5:001 Section 15(2)(e).

6       23.     The total estimated cost of the projects is \$12,700,000, including  
7 capitalized interest and estimated purchase prices for right-of-way and land. The  
8 estimated construction cost of Project A is \$7,456,000. Project B’s estimated  
9 construction cost is \$782,000. Project C’s estimated construction cost is  
10 \$4,462,000.

11       24.     The estimated cost of operation of the new construction for all three  
12 projects, including the cost of taxes and operation and maintenance, based on  
13 historical averages, is approximately \$914,329 per year. The construction of these  
14 projects by Big Rivers does not involve sufficient capital outlay to materially  
15 affect the existing financial condition of Big Rivers. 807 KAR 5:120 Section  
16 2(1)(b), (7); 807 KAR 5:001 Section 15(2)(f).

17       25.     Big Rivers has not yet obtained any permits for the proposed  
18 construction, but any permits from public authorities required for the  
19 construction will be obtained prior to commencing construction. 807 KAR 5:120  
20 Section 2(1)(b); 807 KAR 5:001 Section 15(2)(b).



1 in McCracken County. The notice included:

- 2 a. A map showing the proposed route;
- 3 b. A statement of the right to request a local public hearing; and
- 4 c. A statement that interested persons have the right to request to  
5 intervene.

6 807 KAR 5:120 Section 2(5). A copy of the newspaper notice is attached hereto as  
7 Exhibit J. 807 KAR 5:120 Section 2(6).

8 **REQUESTS FOR RELIEF**

9 **Request for a CPCN**

10 30. Pursuant to KRS 278.020(1), Big Rivers requests that this  
11 Commission issue a CPCN for Project A, the 3.8 mile, 161 kV transmission line  
12 circuit addition. Big Rivers further requests the authority to move the location of  
13 the line up to 500 feet on either side of the centerline shown on the maps filed  
14 with this Application to account for unexpected conditions that could be  
15 discovered during the construction process, provided that no new property owners  
16 are affected.

17 31. Additionally, Big Rivers requests a finding from the Commission,  
18 pursuant to 807 KAR 5:001 Section 19 that the Project B substation upgrade and  
19 Project C new substation are ordinary extensions in the usual course of business  
20 not requiring a CPCN under KRS 278.020(1)(a)(2). 807 KAR 5:001 Section 15(3)  
21 provides:

22 A certificate of public convenience and necessity shall not be required  
23 for extensions that do not create wasteful duplication of plant,



1 equipment, property, or facilities, or conflict with the existing  
2 certificates or service of other utilities operating in the same area and  
3 under the jurisdiction of the [C]ommission that are in the general or  
4 contiguous area in which the utility renders service, and that do not  
5 involve sufficient capital outlay to materially affect the existing  
6 financial condition of the utility involve, or will not result in increased  
7 charges to customers.

8 As discussed above, Projects B and C satisfy these criteria, and therefore do not  
9 require a CPCN. If the Commission disagrees, Big Rivers requests in the  
10 alternative that the Commission grant a CPCN for Projects B and C. Big Rivers  
11 further requests the authority to move the Project C substation from the location  
12 shown on the maps filed with this Application to account for unexpected conditions  
13 that could be discovered during the construction process.

14 WHEREFORE, Big Rivers respectfully requests that the Commission issue  
15 an order granting it the relief requested in this Application, and all other relief to  
16 which it may be entitled.

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On this the 22nd day of September, 2021.

Respectfully submitted,

*/s/ Tyson Kamuf*

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**BIG RIVERS ELECTRIC CORPORATION**

**ELECTRONIC APPLICATION OF  
BIG RIVERS ELECTRIC CORPORATION  
FOR A CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY  
TO CONSTRUCT A 161 KV TRANSMISSION LINE  
IN MCCRACKEN COUNTY, KENTUCKY  
CASE NO. 2021-00275**

**VERIFICATION**

I, Michael T. Pullen, Chief Operating Officer for Big Rivers Electric Corporation, hereby state that I have read the foregoing Application and that the statements contained therein are true and correct to the best of my knowledge and belief, on this 22<sup>nd</sup> day of September, 2021.



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Michael T. Pullen  
Chief Operating Officer  
Big Rivers Electric Corporation

COMMONWEALTH OF KENTUCKY )  
COUNTY OF HENDERSON )

22<sup>ND</sup> SUBSCRIBED AND SWORN TO before me by Michael T. Pullen on this the  
day of September, 2021.



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Notary Public, Kentucky State at Large  
My Commission Expires \_\_\_\_\_

Notary Public, Kentucky State-At-Large  
My Commission Expires: July 10, 2022  
ID: 604480



**DIRECT TESTIMONY  
OF  
MICHAEL T. PULLEN**

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1 **DIRECT TESTIMONY**

2 **OF**

3 **MICHAEL T. PULLEN**

4

5 **I. INTRODUCTION**

6 **Q. Please state your name, business address and occupation.**

7 A. My name is Michael T. Pullen. My business address is 201 Third Street,  
8 Henderson, Kentucky 42420. I am the Chief Operating Officer for Big Rivers  
9 Electric Corporation (“*Big Rivers*” or the “Company”).

10

11 **Q. Please summarize your education and professional experience.**

12 A. I graduated from the University of Mississippi in 1985 with a Bachelor of  
13 Science in Electrical Engineering and Murray State University in 2005 with  
14 a Masters of Business Administration. I am a registered Professional  
15 Engineer in the Commonwealth of Kentucky. I worked at Electric Energy,  
16 Inc. from 1990 to 2014. I served in a variety of engineering, maintenance,  
17 and operation roles including Group Supervisor Maintenance; Manager  
18 Systems-Dispatch; Manager, Generation; and Director, Operations. I also  
19 was employed by Ameren Illinois from 2014 to 2015 and served in substation  
20 construction management. I began my career with Big Rivers in February

1 2015 as the Vice President of Production. Currently, I serve as the Chief  
2 Operating Officer for Big Rivers. *See* Exhibit Pullen-1.

3

4 **Q. Please summarize your duties at Big Rivers.**

5 A. As the Chief Operating Officer for Big Rivers, I oversee all activities related  
6 to the operation and maintenance of the corporation's coal and gas-fired  
7 generating facilities, including fuel procurement and management, power  
8 plant engineering and construction, and environmental compliance. In  
9 addition to these responsibilities, I oversee all activities related to the bulk  
10 transmission system including operation, maintenance, engineering, and  
11 construction, as well as the purchasing, and information technology activities  
12 for the corporation.

13

14 **Q. Have you previously testified before the Kentucky Public Service  
15 Commission ("*Commission*")?**

16 A. Yes. I provided testimony on behalf of Big Rivers in Case No. 2019-00269<sup>1</sup> in  
17 which the Company requested that the Commission enforce the series of  
18 contracts between Big Rivers and the City of Henderson and the City of  
19 Henderson Utility Commission (collectively, "*HMP&L*") related to the

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<sup>1</sup> *In the Matter of: Application of Big Rivers Electric Corporation for Enforcement of Rate and Service Standards*, P.S.C. Case No. 2019-00269.

1 William L. Newman Station Two (“*Station Two*”) generating plant. I recently  
2 provided written testimony in Case No. 2021-00079,<sup>2</sup> in which the  
3 Commission approved the conversion of the generating units at Big Rivers’  
4 Green Station to gas-fired units and in Case No. 2019-00435,<sup>3</sup> in which Big  
5 Rivers sought and obtained approval of its 2020 Environmental Compliance  
6 Plan, a certificate of public convenience and necessity, and other relief. I also  
7 testified in Case No. 2016-00278,<sup>4</sup> in which Big Rivers sought and obtained  
8 an order from the Commission declaring that Big Rivers was not responsible  
9 for the variable costs of any “Excess Henderson Energy,” that Big Rivers  
10 declined to take. I responded to requests for information in Case No. 2019-  
11 0269, Case No. 2020-00064, Case No. 2021-00079, and Case No. 2018-  
12 00146.<sup>5</sup>  
13

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<sup>2</sup> *In the Matter of: Electronic Application of Big Rivers Electric Corporation for a Certificate of Public Convenience and Necessity Authorizing the Conversion of the Green Station Units to Natural Gas-Fired Units and An Order Approving the Establishment of a Regulatory Asset*, P.S.C. Case No. 2021-00079.

<sup>3</sup> *In the Matter of: Electronic Application of Big Rivers Electric Corporation for Approval of its 2020 Environmental Compliance Plan, Authority to Recover Costs through a Revised Environmental Surcharge and Tariff, the Issuance of a Certificate of Public Convenience and Necessity for Certain Projects, and Appropriate Accounting and Other Relief*, P.S.C. Case No. 2019-00435.

<sup>4</sup> *In the Matter of: Application of Big Rivers Electric Corporation for a Declaratory Order*, P.S.C. Case No. 2016-00278.

<sup>5</sup> *In the Matter of: Application of Big Rivers Electric Corporation for Termination of Contracts and a Declaratory Order and for Authority to Establish a Regulatory Asset*, P.S.C. Case No. 2018-00146.



1 **II. BACKGROUND**

2 **Q. What is the purpose of your testimony in this proceeding?**

3 A. I am filing this testimony in support of Big Rivers' application ("*Application*")  
4 for the necessary authority to construct certain transmission system  
5 improvements necessary to provide wholesale electric service to Jackson  
6 Purchase Energy Corporation ("*Jackson Purchase*") in light of load growth  
7 anticipated in the west Paducah area in McCracken County, Kentucky  
8 resulting from economic development in the Industrial Park West.

9

10 **Q. Are you sponsoring any Exhibits?**

11 A. Yes. I have prepared the following exhibits to my testimony:

- 12 • Exhibit Pullen-1 – Professional Summary
- 13 • Exhibit Pullen-2 – Paducah Greater Economic Development  
14 Announcement.
- 15 • Exhibit Pullen-3 – Press Articles Regarding Blockware's Investment

16

17 **III. NEED FOR THE PROPOSED PROJECTS**

18 **Q. Please describe the proposed transmission system improvements.**

19 A. There are three transmission line or substation projects needed to continue to  
20 provide reliable electric service to Jackson Purchase:

- 21 • Project A consists of the construction of a new 3.8 mile, 161 kV

1 transmission line circuit addition largely above Big Rivers' existing 69 kV  
2 transmission line ( "*Line 21-O*") from its existing McCracken County  
3 Substation to a new substation to be constructed adjacent to Jackson  
4 Purchase's Maxon Substation, proposed below as Project C. The existing 69  
5 kV line conductor and hardware will be upgraded as new structures are  
6 installed for this project.

7 • Project B consists of the construction of a 161 kV line terminal addition  
8 at Big Rivers' existing McCracken County Substation. This will include the  
9 installation of a power circuit breaker, switches, and associated protective  
10 relaying for the new 161kV transmission line, Project A. In addition, plans  
11 are to upgrade protective relaying on the existing 69 kV circuit that will be  
12 over-built during construction.

13 • Project C consists of the construction of a new 161/13.8 kV substation  
14 adjacent to Jackson Purchase's existing Maxon substation in West Paducah  
15 at the Industrial Park West (the "*West Paducah Substation*"). This will  
16 include the installation of a new 161-13.8 kV autotransformer, power circuit  
17 breakers, switches, and all protective relaying required.

18 Specifically, Big Rivers is requesting a certificate of public convenience  
19 and necessity ("*CPCN*") for the Project A transmission line and a finding that  
20 no CPCN is required for the Project B or Project C construction. However, if  
21 the Commission determines that a CPCN is required for the other two

1 projects, Big Rivers requests in the alternative that the Commission grant a  
2 CPCN for those projects.

3

4 **Q. Please describe why the proposed transmission system**  
5 **improvements described above and in the Application are needed.**

6 A. The three transmission system construction improvement projects are needed  
7 to continue to provide reliable electric service to Big Rivers' Member-Owner,  
8 Jackson Purchase. More specifically, the improvements are needed to allow  
9 Jackson Purchase to continue to reliably serve the Industrial Park West in  
10 Paducah, McCracken County Kentucky, by strengthening the current 69 kV  
11 transmission system. This will accommodate the anticipated load growth in  
12 the area resulting from future energy-intensive cyber currency mining  
13 facilities locating in the Paducah community. As the Commission is aware,  
14 Blockware Mining, LLC ("*Blockware*") plans to locate such a facility in  
15 Paducah's Industrial Park West.<sup>6</sup> The new construction will also enhance  
16 reliability for existing retail members.

17 The Greater Paducah Economic Development ("*GPED*") announced  
18 that due to the recent enactment of legislation,<sup>7</sup> competitive power rates from

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<sup>6</sup> See *In the Matter of: Electronic Tariff Filing of Big Rivers Electric Corporation and Jackson Purchase Energy Corporation for Approval and Confidential Treatment of a Special Contract and Cost Analysis Information and a Request for Deviation from the Commissions September 24, 1990 in Administrative Case No. 327*, P.S.C. Case No. 2021-00282 (Originally filed as TFS No. 2021-00257).

<sup>7</sup> The recently enacted legislation includes tax incentives to encourage the use and growth of blockchain technology in the Commonwealth through the location and expansion of commercial

1 Big Rivers and Jackson Purchase, and its relationship with Navier, Inc., a  
2 leading expert in mining digital currency, GPED has seen an increase in  
3 interest in Paducah as “a hotspot for cryptocurrency miners.” See Exhibit  
4 Pullen-2, a copy of GPED’s Press Release.

5 The assurance of long-term available and competitively priced power is  
6 a critical factor all commercial cryptocurrency mining operations consider as  
7 part of their decision-making process in where to locate new facilities, as 95%  
8 of the operating expenses for a cryptocurrency mining operation is its  
9 electricity costs.<sup>8</sup> The proposed transmission improvements are needed in  
10 order support the Commonwealth’s policy of encouraging the growth of  
11 blockchain technology.

12 Big Rivers is in the process of installing a 69/13kV transformer and  
13 breakers at Maxon Substation to facilitate Blockware’s contracted initial  
14 load.<sup>9</sup> This project is referred to as “Phase I Transmission Upgrades” in the  
15 retail agreement for electric service between Jackson Purchase and  
16 Blockware. Blockware plans to double its investment in Paducah and its

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cryptocurrency mining operations in the Commonwealth, rather than in other states competing for such businesses. See the Recitals of House Bill 230 (Effective July 1, 2021) at [CHAPTER 122 \(HB 230, Rudy and others \) \(ky.gov\)](#); see also Senate Bill 255 (Effective July 2021) at [CHAPTER 141 \(SB 255, Smith\) \(ky.gov\)](#)

<sup>8</sup> See <https://www.blockwaresolutions.com/research-and-publications/2020-halving-analysis>.

<sup>9</sup> See *In the Matter of: Electronic Tariff Filing of Big Rivers Electric Corporation and Jackson Purchase Energy Corporation for Approval and Confidential Treatment of a Special Contract and Cost Analysis Information and a Request for Deviation from the Commissions September 24, 1990 in Administrative Case No. 327, P.S.C. Case No. 2021-00282, Direct Testimony of Mark J. Eacret (June 21, 2021).*

1 power demand within 24 to 36 months. Earlier this year, Blockware  
2 announced its plans to build its facility in Paducah and purchase 14,000  
3 mining rigs, having raised \$25 million in capital funding. See Exhibit Pullen-  
4 3, two articles including a [PaducahSun.com](http://PaducahSun.com) article dated July, 1, 2021,  
5 “*Bitcoin Mining Operation Raises \$25 Million for Facility, Rigs.*” This  
6 additional load was also contemplated in the retail agreement for service, as  
7 were the additional transmission improvements that would be required.  
8 These improvements, which are the proposed projects that are the subject of  
9 this case, are identified in the retail agreement as the Phase II Transmission  
10 Upgrades.

11 Additionally, other commercial cryptocurrency mining businesses have  
12 reached out to Big Rivers and Jackson Purchase. In fact, Big Rivers and  
13 Jackson Purchase are currently negotiating with a second such business  
14 looking to locate in the Industrial Park West in Paducah. The proposed  
15 construction will enable Big Rivers to have the transmission needed to  
16 provide service for both Blockware’s planned expansion and this second  
17 business.

18 **Q. Are any interstate benefits expected to be achieved by the**  
19 **construction projects?**

20 A. Yes. The construction projects are needed not only to serve the new  
21 Blockware facility, but they will also enable Big Rivers and Jackson Purchase

1 to provide electric service to other new and expanded loads in the McCracken  
2 County area, as well as provide the ability to enhance reliability to existing  
3 Members. The proposed transmission upgrades provide supplementary  
4 system reliability benefits including reducing transformer loading at the  
5 McCracken Substation by approximately 30 megawatts, improving  
6 transmission line pole reliability by replacing wooden poles with double  
7 circuit steel poles, and improving voice and data communication by the  
8 installation of a robust and reliable fiber optic network.<sup>10</sup> The construction  
9 projects will additionally strengthen the transmission system.

10 **IV. REASONABLENES OF THE PROPOSED PROJECTS**

11 **Q. What is the estimated construction cost for the projects?**

12 A. Big Rivers estimates that the total construction costs for the Project A  
13 transmission line will be \$7,456,000. The estimated construction costs are  
14 \$782,000 for Project B (the upgrades to McCracken County Substation), and  
15 \$4,462,000 for Project C (the construction of a new substation).

16 The estimated cost for Project C includes an estimated purchase price  
17 of the necessary land for the proposed West Paducah Substation, as initially

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<sup>10</sup> See *In the Matter of: Electronic Tariff Filing of Big Rivers Electric Corporation and Jackson Purchase Energy Corporation for Approval and Confidential Treatment of a Special Contract and Cost Analysis Information and a Request for Deviation from the Commissions September 24, 1990 in Administrative Case No. 327*, P.S.C. Case No. 2021-00282, Big Rivers' Response to the Commission Staff's Second Request for Information, Item 3 (Sept. 15, 2021).

1 estimated as \$150,000. However, the Paducah McCracken County Industrial  
2 Development Authority, the current owner of the proposed new substation  
3 location property, recently received the authority to gift the property to Big  
4 Rivers for the proposed construction.

5 **Q. How will Big Rivers recover the construction cost?**

6 A. Any Large Industrial Customers locating at the Industrial Park West will be  
7 required to provide a proportionate share of credit support for the  
8 construction costs.<sup>11</sup> The construction cost will be included in the rates for  
9 transmission service under Big Rivers' Open Access Transmission Tariff as  
10 well.

11 **Q. What steps were taken to ensure that the projects are not excessive  
12 in investment or scope?**

13 A. Project A largely adds a new circuit over an existing transmission line  
14 utilizing existing rights-of-way. This results in less cost, less impact to  
15 property owners, and no duplication of facilities.

16 Deviations from the existing transmission route occur where the route  
17 crosses other transmission lines. Absent these deviations, excessively tall  
18 structures would be required to add the new circuit, which would create a

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<sup>11</sup> See *In the Matter of: Electronic Tariff Filing of Big Rivers Electric Corporation and Jackson Purchase Energy Corporation for Approval and Confidential Treatment of a Special Contract and Cost Analysis Information and a Request for Deviation from the Commissions September 24, 1990 in Administrative Case No. 327*, P.S.C. Case No. 2021-00282, Direct Testimony of Mark J. Eacret (June 21, 2021); Big Rivers' Response to the Commission Staff's Second Request for Information, Item 2 (Sept. 15, 2021).

1 barrier to future transmission lines entering the McCracken County  
2 Substation and would not be maintainable while crossing under the 500kV  
3 transmission line. These deviations are noted in the map attached as Exhibit  
4 D to the Application.

5 Project B consists of minimal upgrades to the existing McCracken  
6 Substation necessary for the new 161 kV transmission line. Likewise, Project  
7 C consists of a substation to meet current needs, while allowing for additional  
8 future facilities if the need continues to increase.

9

10 **Q. Why does Big Rivers believe no CPCN is required projects B and C?**

11 A. The projects consisting of an upgrade to an existing substation and  
12 construction of a substation in order to upgrade the 69 kV system to a 161 kV  
13 system are ordinary extensions in Big Rivers' usual course of business. They  
14 do not require a CPCN because 1) they do not create any wasteful duplication  
15 of plant, equipment, property, or facilities; 2) the construction does not  
16 compete with facilities of existing public utilities; and 3) the investment  
17 required is insufficient to cause a material financial impact to Big Rivers and  
18 will not result in increased electric servicer rates to retail customers on the  
19 Big Rivers system.<sup>12</sup> The total estimated construction costs for the combined

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<sup>12</sup> See KRS 278.020(1) and 807 KAR 5:001, Section 9(3).



1 three projects (\$12,700,000) is 1.06% of Big Rivers' net utility plant. As of  
2 December 31, 2020, Big Rivers' net utility plant was estimated at \$1.2 billion.

3

4 **V. CONCLUSION**

5 **Q. What action by the Commission does Big Rivers seek in this**  
6 **proceeding?**

7 A. Big Rivers requests that the Commission find that the public convenience  
8 and necessity require the construction by Big Rivers of Project A and issue a  
9 CPCN for that project. Big Rivers requests that the Commission find that  
10 Projects B and C are ordinary extensions of existing systems in the usual  
11 course of business for which no CPCN is required. Alternatively, Big Rivers  
12 requests that the Commission grant a CPCN for all projects which the  
13 Commission determines require a CPCN. Additionally, Big Rivers requests  
14 the flexibility to move the Project A transmission line up to 500 feet in either  
15 direction of the centerline shown on the route maps filed with the  
16 Application, so long as no easements are required on property owners other  
17 than those over whom the existing rights-of-way cross and the flexibility to  
18 move the proposed West Paducah Substation from the location shown on the  
19 maps, to account for unexpected conditions that could be discovered during  
20 the construction process.

21 **Q. Does this conclude your testimony?**

22 A. Yes.

**BIG RIVERS ELECTRIC CORPORATION**

**ELECTRONIC APPLICATION OF  
BIG RIVERS ELECTRIC CORPORATION  
FOR A CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY  
TO CONSTRUCT A 161 KV TRANSMISSION LINE  
IN MCCRACKEN COUNTY, KENTUCKY  
CASE NO. 2021-00275**

**VERIFICATION**

I, Michael T. Pullen, Chief Operating Officer for Big Rivers Electric Corporation, verify, state, and affirm that I prepared or supervised the preparation of the Direct Testimony filed with this Verification, and that Direct Testimony is true and accurate to the best of my knowledge, information, and belief after a reasonable inquiry on this 22<sup>nd</sup> day of September, 2021.

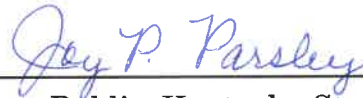


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Michael T. Pullen  
Chief Operating Officer  
Big Rivers Electric Corporation

COMMONWEALTH OF KENTUCKY )  
COUNTY OF HENDERSON )

SUBSCRIBED AND SWORN TO before me by Michael T. Pullen on this the 22<sup>ND</sup> day of September, 2021.



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Notary Public, Kentucky State at Large  
My Commission Expires \_\_\_\_\_

Notary Public, Kentucky State-At-Large  
My Commission Expires: July 10, 2022  
ID: 604480

## **Professional Summary**

Michael T. Pullen  
Chief Operating Officer  
Big Rivers Electric Corporation  
201 Third Street  
Henderson, KY 42420  
Phone: 270-844-6186

### **Professional Experience**

Big Rivers Electric Corporation - 2015 to present  
Chief Operating Officer  
Executive Vice President  
Vice President Production

Ameren Illinois – 2014-2015  
Manager Substation Construction

Electric Energy, Inc. – 1990-2014  
Director Operations  
Manager Generation  
Manager Systems-Dispatch  
Group Supervisor Maintenance

### **Education**

Master of Business Administration  
Murray State University

Bachelor of Science Electrical Engineering  
University of Mississippi

**\*\*\*For Immediate Release June 9, 2021\*\*\***



Greater Paducah Economic Development is pleased to announce Blockware Mining, Inc. is expanding in Paducah, KY. Blockware Mining is a technology-based company specializing in cryptocurrency mining. Blockware will be investing \$50 million and hiring 20 new employees over the next 24 – 36 months in a new technology center on five acres in Industrial Park West. Upon completion of the new facility, Blockware is anticipated to have a \$5.7 million recurring annual economic impact on the community.

GPED has been working with Blockware for approximately one year on the expansion project. “The culmination of today’s announcement represents teamwork and the ability to get a deal done between numerous organizations. We have diligently worked with Navier (a leading expert in mining digital currency), Big Rivers Electric, Jackson Purchase Energy, Paducah Power, the Paducah McCracken County Industrial Development Authority, the City of Paducah, McCracken County, the Kentucky Cabinet for Economic Development, and numerous community partners to pull this deal together. We have come together as a community to make this investment happen. It is a great thing! We are seeing an increased interest in Paducah as a hotspot for cryptocurrency miners due to the relationship we have with Navier, our ability to offer competitive power rates, and the recently enacted legislation by the state of Kentucky.”, stated Bruce Wilcox, President of GPED.

Big Rivers Electric is also investing an additional \$12.7 million in additional utility infrastructure upgrades to Industrial Park West to accommodate 100 megawatts of power. “Big Rivers is happy to partner with Jackson Purchase Energy to bring economic development projects to this region,” said Bob Berry, President & CEO of Big Rivers Electric Corporation. “Blockware’s announcement to locate in Paducah is good news that will benefit our entire cooperative member system.”

Michael Stoltzner, Blockware CEO, stated “...with the support and guidance of Greater Paducah Economic Development facilitating introductions to key people and organizations throughout the process, Blockware qualified for the Kentucky Business Investment Program enabling us to secure a robust incentive package allowing us to effectively grow within the bitcoin network community and keep our costs low. Additionally, GPED assisted in obtaining a 10-year Power Purchase Agreement with Big Rivers/Jackson Purchase Energy, which will allow us to build out a mining facility with the potential to reach up to 100MW”.

For additional information contact Bruce Wilcox at 270-210-7392.



# Blockware Raises \$25M to Expand Bitcoin Mining Operations in Kentucky

CONTRIBUTOR

Cheyenne Ligon [CoinDesk](#)

PUBLISHED

JUN 30, 2021 8:22AM EDT



Blockware has raised [\\$25 million](#) as North American [bitcoin](#) mining looks to seize the moment.

Blockware founder and CEO Michael Stoltzner declined to name entities involved in the funding round, but told CoinDesk the list of investors included several “prominent” individuals and crypto funds. This round brings Blockware’s total capital raised to date to \$32 million since its launch in 2019.

The money will be used to purchase 14,000 mining rigs over the next two years, which Blockware has sourced from both Bitmain and the open market. The company will use 8,000 of the rigs to build out its new mining facility in Paducah, Ky., and will sell 6,000 rigs to other U.S.-based bitcoin mining operations.

Stoltzner said he chose Paducah for Blockware’s first large-scale mining facility because the city had everything he was looking for: friendly government officials, plenty of skilled and unskilled labor, and most importantly, cheap energy.



The Paducah facility will be built on land that is 100 yards from the Big Rivers Electric-operated energy source that will power Blockware's rigs.

The Chinese government's [crackdown](#) on mining operations has caused many to shut down, and bitcoin's hashrate has [plummeted](#) in response. The situation has caused many in the crypto community to call for a more global, [decentralized](#) mining structure to reduce the network's reliance on Chinese miners. Miners have also been under increased scrutiny in recent months as bitcoin's sustainability debate, led by unofficial crypto figureheads including Tesla CEO [Elon Musk](#), rages on.

### **Power mix**

Stoltzner said the company chose to source power from Big Rivers Electric because the company used a mix of renewable and non-renewable sources, including hydroelectric, wind and coal.

"Kentucky is the largest coal-producing state in the country," Stoltzner said. "That's the resource they have. It's a tough argument, and people in Kentucky feel different about that argument than people in California."

Stoltzner said Blockware is working on a program to purchase carbon offsets and is in the early stages of joining the Michael Saylor-led [Bitcoin Mining Council](#).

According to Stoltzner, Blockware's smaller-scale mining operations in upstate New York, Washington state and Newfoundland, Canada, are almost completely run on hydroelectric power.

Ensuring the sustainability of North American bitcoin mining is part of Stoltzner's larger stated goal of increasing the bitcoin hashrate in North America, which currently only accounts for an estimated 10% of the hashrate worldwide.

Bitcoin must be mined domestically in order to fully go mainstream in North America, Stoltzner said.

"What we've seen coming out of China and Eastern Europe – that's not helping to legitimize bitcoin in the industry," Stoltzner said. "I believe that companies operating out of the United States are very much legitimizing crypto and bitcoin. It's got to happen out of the United States."

[https://www.paducahsun.com/news/bitcoin-mining-operation-raises-25-million-for-facility-rigs/article\\_10011479-efc0-5678-b7e0-b817f972434c.html](https://www.paducahsun.com/news/bitcoin-mining-operation-raises-25-million-for-facility-rigs/article_10011479-efc0-5678-b7e0-b817f972434c.html)

EDITOR'S PICK

## Bitcoin mining operation raises \$25 million for facility, rigs

By DEREK OPERLE [doperle@paducahsun.com](mailto:doperle@paducahsun.com)

Jul 1, 2021



COURTESY OF UNSPLASH

Looking to seize on the moment, Blockware Mining – the cryptocurrency mining company that recently revealed its plans to build their flagship facility in Paducah – announced it had raised \$25 million in capital during an oversubscribed second funding round.



Blockware founder and CEO Michael Stoltzner said he feels his company is poised for success now with these funds set to go toward the acquisition of 14,000 mining rigs and the completion of a new facility on its five-acre lot in Paducah's Industrial Park West.

"We've had a very successful time as a company. We were incorporated in 2019 and did our first round of funding in the late fourth quarter of that year," Stoltzner said. "We've had a strong two years of growth and I think we've been very well managed and strategic about our purchase and deployment of equipment to different facilities around North America."

The development brings together the collaboration between various community partners, including the Greater Paducah Economic Development, Big Rivers Electric, Jackson Purchase Energy, Paducah Power, the Paducah McCracken County Industrial Development Authority, the city of Paducah, McCracken County and the Kentucky Cabinet for Economic Development.

The mining rigs are going to come to Blockware through a set of purchase programs that will bring regular amounts of new units to the west Kentucky facility each month between this August and July 2022. Getting this deal, Stoltzner told The Sun, was huge for the company.

"Probably the most difficult part of participating in bitcoin mining is the acquisition of equipment because there are only a few manufacturers in the world and they are all based out of China currently," he said. "So we were able to accomplish through our capital raise getting on what's called an annual purchase program where starting in August 2021 through July 2022 we will acquire 1,000 rigs per month for 12 consecutive months from Bitmain and on top of that get an additional 500 rigs per month on a purchase program that runs from January 2022 through March 2022."

Of these total 14,000 rigs, around 8,000 will be installed in the Paducah facility with the remainder to be sold to other entities.

Once installed, the rigs will start earning money by processing data, which Stoltzner is hopeful will be happening by the fourth quarter of this year.



▷  
The process consists of an incentivized network of miners competing for monetary rewards based on the “hash rate,” or the measuring unit of power needed to solve complex mathematical puzzles and earn newly-minted bitcoin.

Two sources of income come from mining the bitcoin that is earned each day — transaction fees and rewards.

Stoltzner is feeling good about the future of Bitcoin and Blockware, despite the decline in the cryptocurrency’s value since mid-April and — with the Chinese government’s recent crackdown on mining facilities — he is confident the door is opening for facilities statewide to get a bigger piece of the daily bitcoin pie.

“We are very bullish on Bitcoin. We’re long-term focused on it and we hold a fair amount of the Bitcoin that we buy in treasury,” the CEO said. “We don’t convert to U.S. dollars on a daily or regular basis.”

Overall, Stoltzner was riding high Wednesday and in his view the future is bright.

“It’s a major accomplishment for us to be able to get on that purchase program and be able to build out the facility in Paducah,” he added. “We’re very proud of those accomplishments.

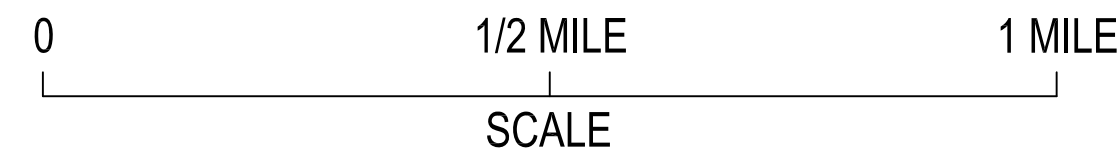
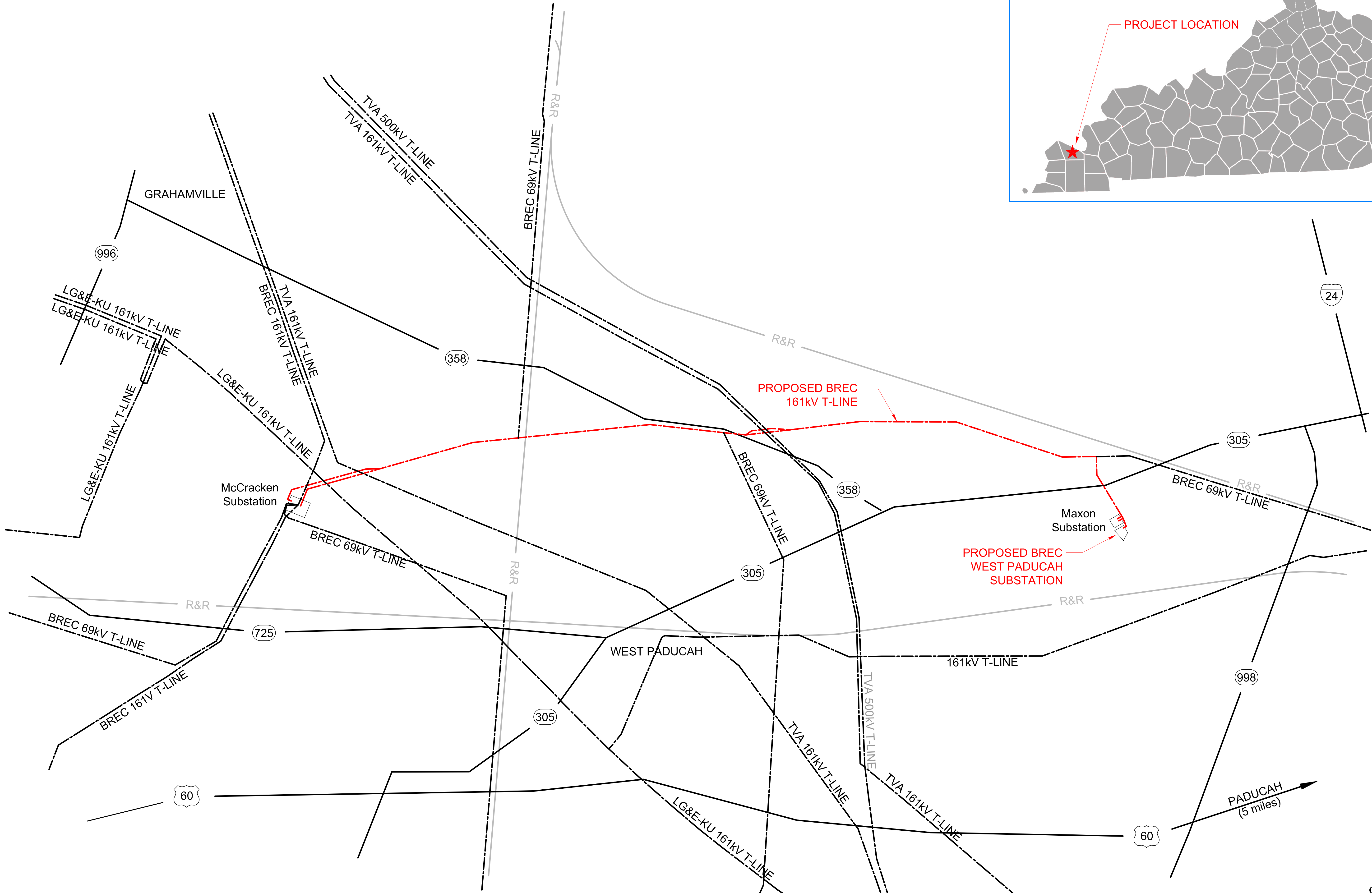
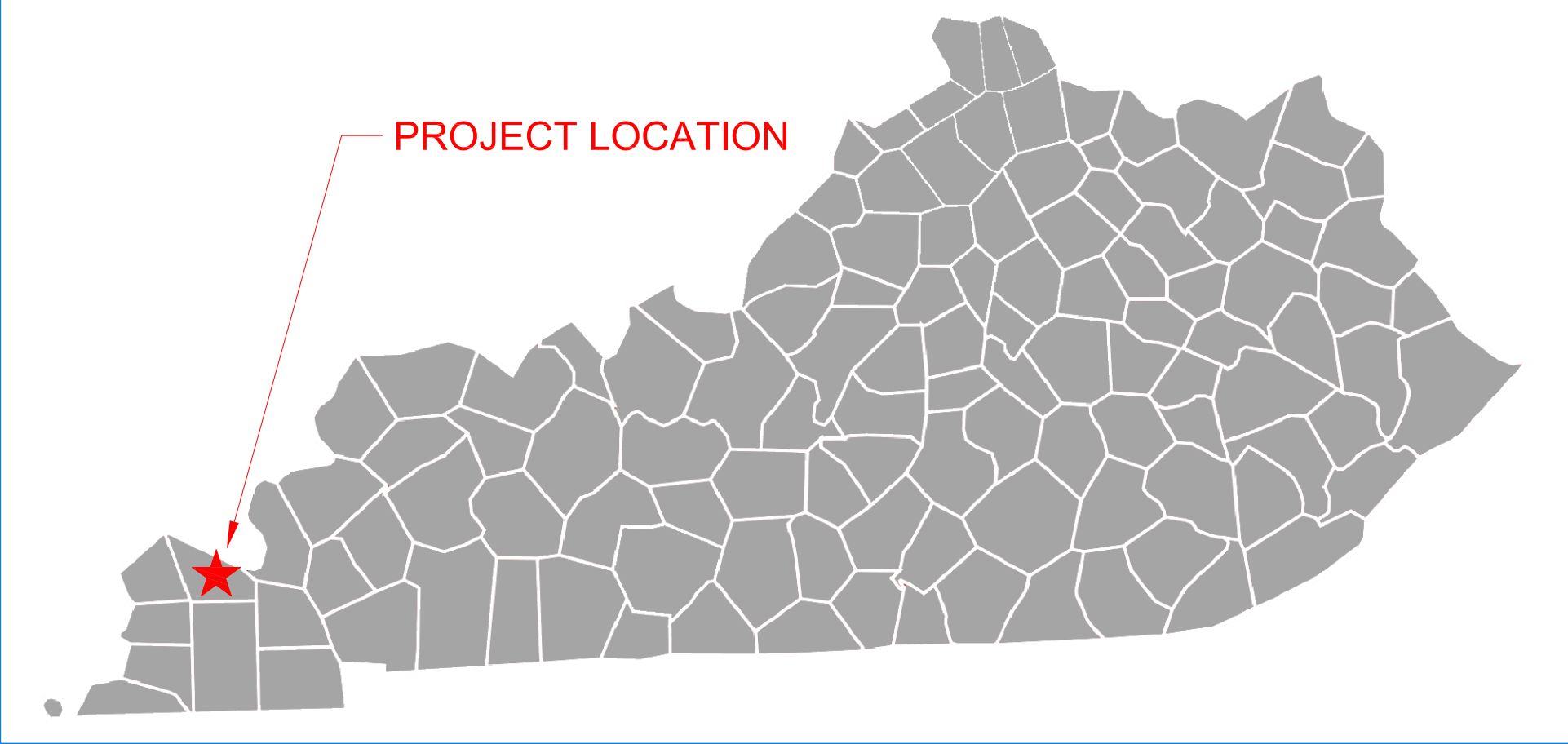
“We’ve been able to put the pieces in place and now it’s just a matter of us executing and getting the facility built out and starting to take delivery of equipment.”

<b>REFERENCES FOR COMPLIANCE WITH STATUTORY AND REGULATORY FILING REQUIREMENTS</b>		
<b>Law / Regulation</b>	<b>Filing Requirement</b>	<b>Location in Application</b>
<b>IN GENERAL</b>		
807 KAR 5:001 Section 14(1)	The full name, mailing address, and electronic mail address of the Applicant	Application ¶ 8
807 KAR 5:001 Section 14(1)	A request for the order, authorization, permission or certificate desired	Application ¶¶ 1, 5-7, 30-31, and Page 12
807 KAR 5:001 Section 14(1)	A reference to the particular provision of law authorizing the relief requested	Application ¶¶ 1, 5, 6, 30-31
807 KAR 5:001 Section 14(1)	The facts on which the application is based	Application ¶¶ 2-4, 13-26; Exhibit A (Pullen Testimony)
807 KAR 5:001 Section 14(2)	State and date of incorporation; attest to good standing in state	Application ¶ 10

<b>Law / Regulation</b>	<b>Filing Requirement</b>	<b>Location in Application</b>
<b>CPCN</b>		
807 KAR 5:001 Section 15(2)(a)	The facts relied upon to show that the proposed construction or extension is or will be required by public convenience or necessity;	Application ¶ 16; Exhibit A (Pullen Testimony)
807 KAR 5:001 Section 15(2)(b)	Copies of franchises or permits, if any, from the proper public authority for the proposed construction or extension, if not previously filed with the commission.	Application ¶ 25
807 KAR 5:001 Section 15(2)(c)	A full description of the proposed location, route, or routes of the proposed construction or extension, including a description of the manner of the construction and the names of all public utilities, corporations, or persons with whom the proposed construction or extension is likely to compete.	Application ¶¶ 2, 12-13; Exhibit A (Pullen Testimony); Exhibits C and D (maps); Exhibits E, F, and G (sketches)
807 KAR 5:001 Section 15(2)(d)(1)	Maps to suitable scale showing the location or route of the proposed construction or extension, as well as the location to scale of like facilities owned by others located anywhere within the map area with adequate identification as to the ownership of the other facilities;	Exhibits C and D

807 KAR 5:001 Section 15(2)(d)(2)	Plans and specifications and drawings of the proposed plant, equipment, and facilities	Exhibits D, E, F, and G
807 KAR 5:001 Section 15(2)(e)	The manner in detail in which the applicant proposes to finance the proposed construction or extension.	Application ¶ 22
807 KAR 5:001 Section 15(2)(f)	An estimated annual cost of operation after the proposed facilities are placed into service.	Application ¶ 24
<b>Applicable Transmission Line</b>		
807 KAR 5:120 Section 2(2)	Three (3) maps of suitable scale, but no less than one (1) inch equals 1,000 feet for the project proposed. (a) The map detail shall show the location of the proposed transmission line centerline and right of way, and boundaries of each property crossed by the transmission line right of way as indicated on the property valuation administrator's maps, modified as required. (b) Sketches of proposed typical transmission line support structures shall also be provided. (c) A separate map of the same scale shall show any alternative routes that were considered;	Exhibits C, D, and E; Application ¶20
807 KAR 5:120 Section 2(3)	A verified statement that, according to county property valuation administrator records, each property owner over whose property the transmission line right-of-way is proposed to cross has been sent by first-class mail, addressed to the property owner at the owner's address as indicated by the county property valuation administrator records, or hand delivered regulatory notice.	Application ¶ 27
807 KAR 5:120 Section 2(4)	A sample copy of each notice provided to a property owner and list of the names and addresses	Exhibits H (Sample Notice); Exhibit I (List)
807 KAR 5:120 Section 2(5)	A statement that a notice of intent was published	Application ¶ 29
807 KAR 5:120 Section 2(5)	A copy of the newspaper notice	Exhibit J (Newspaper Notice)
807 KAR 5:120 Section 2(7)	A statement as to whether the project involves sufficient capital outlay to materially affect the existing financial condition of the utility involved	Application ¶ 24

Law / Regulation	Filing Requirement	Location in Application
<b>DECLARATORY ORDER</b>		
807 KAR 5:001 Section 19(2)	An application for declaratory order shall: (a) be in writing; (b) contain a complete, accurate, and concise statement of facts upon which the application is based; (c) fully disclose the applicant's interest; (d) identify all statutes, administrative regulations, and orders to which the application relates; and (e) state the applicant's proposed resolution or conclusion	The Application is in writing.
807 KAR 5:001 Section 19(6)	Applications for declaratory orders shall be supported by affidavit or shall be verified.	The Application is verified.



- PRELIMINARY
- FOR BID
- FOR CONSTRUCTION
- FOR RECORD
- "AS BUILT"
- REFERENCE



**LEGEND**

- EXISTING TRANSMISSION LINE
- ROAD
- RAILROAD
- - - PROPOSED TRANSMISSION LINE

REV	DATE	DRFT	ENGR	REVISION DESCRIPTION
A	09/08/21		ABG	ISSUED FOR REFERENCE

W.O.  
SCALE: 1"=1000'

Case No. 2021-00275  
Application Exhibit C

WEST PADUCAH 161KV PROJECT  
VICINITY MAP

DRAWING REVIEW	DATE	
ENGINEER	ABG (P&D ENGINEERS)	09-08-2021
DRAWN		

SHEET 1 of 1



**ADDITIONAL EASEMENT:**  
TO MAINTAIN REQUIRED PHASE-TO-PHASE AND PHASE-TO-GROUND CLEARANCES AT THE CROSSING POINTS WITH LG&E-KU 161KV TRANSMISSION LINE AND TVA 161KV TRANSMISSION LINE, IT IS PROPOSED TO REBUILD THE EXISTING 69KV LINE ALONG A NEW ALIGNMENT. THE RELOCATION OF THE 69KV LINE WILL ALLOW THE NEW 161KV LINE TO BE BUILT ALONG THE EXISTING 69KV ROUTE.

ALONG THE NEW 69KV ALIGNMENT, A 100' WIDE (50' EITHER SIDE OF CENTERLINE) EASEMENT IS PROPOSED.

ALTERNATIVE DESIGNS WHICH ALLOWED THE 161KV AND 69KV TO BE BUILT ALONG THE EXISTING 69KV ROUTE WERE EVALUATED AT THE CROSSING LOCATIONS. THESE ALTERNATIVE DESIGN WERE NOT SELECTED AS THEY WOULD REQUIRE EXCESSIVELY TALL STRUCTURES WHICH WOULD CREATE A BARRIER TO FUTURE TRANSMISSION LINE ENTERING THE McCracken COUNTY SUBSTATION.

NO NEW LANDOWNER ARE EFFECTED BY THE PROPOSED EASEMENT.

THE NEW 161KV TRANSMISSION LINE WILL OVERBUILD THE EXISTING 69KV TRANSMISSION LINE AND WILL FOLLOWING THE EXISTING 69KV TRANSMISSION LINE ROUTE

ADDITIONAL "GUY-BOX" EASEMENT

**ADDITIONAL EASEMENT:**  
THE GENERAL ARRANGEMENT WITHIN McCracken COUNTY SUBSTATION REQUIRES THAT THE PROPOSED 161KV CIRCUIT ENTER THE STATION ON THE NORTH SIDE.

THE EXISTING BREC 161KV EASEMENT WILL BE EXPANDED EAST 62'-6".

NO NEW LANDOWNER ARE EFFECTED BY THE PROPOSED EASEMENT.

BIG RIVERS ELECTRIC CORPORATION  
DEED 626-271  
055-00-00-018

McCracken COUNTY SUBSTATION

TILFORD GARY & KEITH & DARYL & BRENT  
DEED 1302-19  
055-00-00-007

EDWARDS JAMES I & BOBBIE J ESTATE  
DEED 1213-168  
055-00-00-017

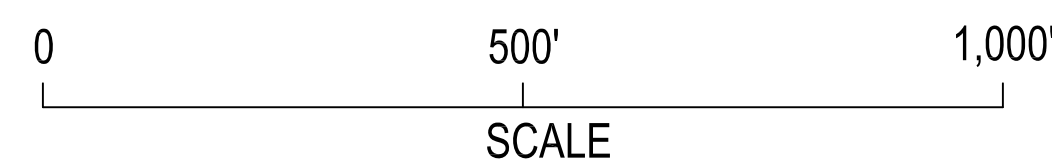
MCCLINTOCK TRUST II  
MCCLINTOCK CHRISTOPHER L  
DEED 1324-169  
055-00-00-017.02

BUCHANAN BRENT & MICHELLE  
DEED 1074-498  
055-00-00-017.03

POYNER RONALD W ESTATE & PATRICIA  
DEED 536-140  
055-00-00-022

SMALLWOOD JAMES & MOON SMALLWOOD SALLY  
DEED 1370-709  
055-00-00-023

SORRELL ROBERT H  
DEED 1339-416  
055-00-00-027.04



- PRELIMINARY
- FOR BID
- FOR CONSTRUCTION
- FOR RECORD
- "AS BUILT"
- REFERENCE



- LEGEND**
- EXISTING TRANSMISSION LINE
  - ROAD
  - RAILROAD
  - - - PROPOSED TRANSMISSION LINE
  - o PROPOSED POLE
  - o PROPOSED DOWNGUY
  - - - PROPOSED EASEMENT
  - - - PROPERTY LINE
  - /// ADDITIONAL EASEMENT

REV	DATE	DRFT	ENGR	REVISION DESCRIPTION
A	09/06/21		ABG	ISSUED FOR REFERENCE

Case No. 2021-000275  
Application Exhibit D  
Page 1 of 7



WEST PADUCAH 161KV PROJECT  
TRANSMISSION LINE  
CENTERLINE & EASEMENT BOUNDARIES  
ADDITIONAL EASEMENT DETAILS

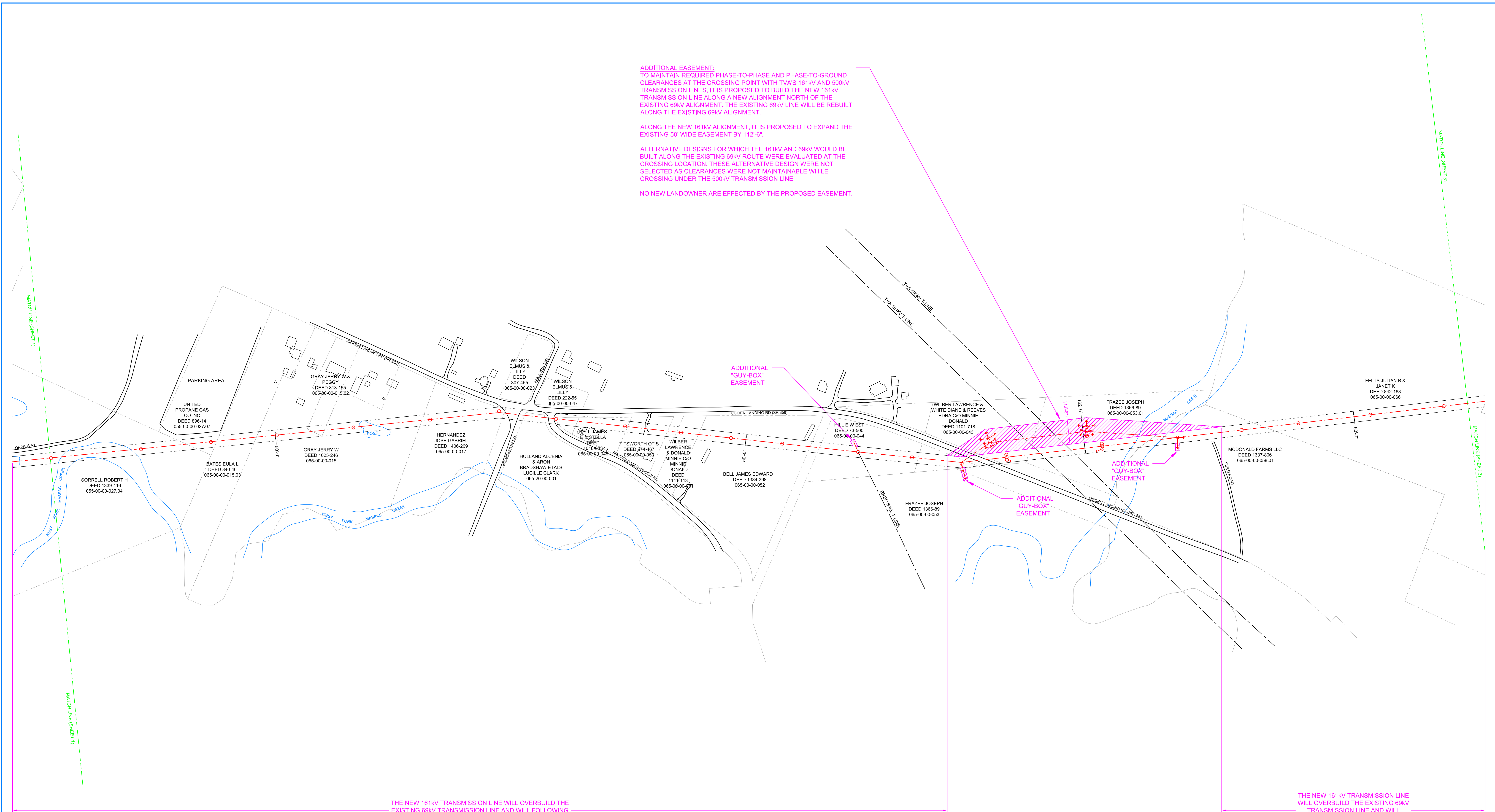
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SCALE:	1" = 200'		
ENGINEER	ABG (P&D ENGINEERS)	DATE	09-10-2021
DRAWN			

**ADDITIONAL EASEMENT:**  
 TO MAINTAIN REQUIRED PHASE-TO-PHASE AND PHASE-TO-GROUND CLEARANCES AT THE CROSSING POINT WITH TVA'S 161KV AND 500KV TRANSMISSION LINES, IT IS PROPOSED TO BUILD THE NEW 161KV TRANSMISSION LINE ALONG A NEW ALIGNMENT NORTH OF THE EXISTING 69KV ALIGNMENT. THE EXISTING 69KV LINE WILL BE REBUILT ALONG THE EXISTING 69KV ALIGNMENT.

ALONG THE NEW 161KV ALIGNMENT, IT IS PROPOSED TO EXPAND THE EXISTING 50' WIDE EASEMENT BY 112'-6".

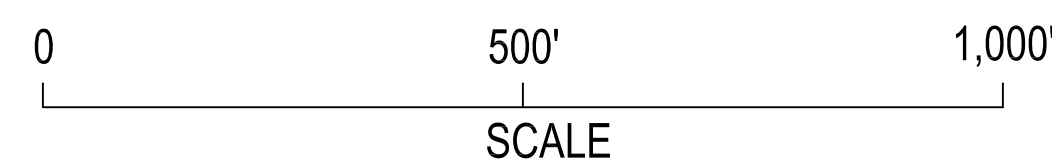
ALTERNATIVE DESIGNS FOR WHICH THE 161KV AND 69KV WOULD BE BUILT ALONG THE EXISTING 69KV ROUTE WERE EVALUATED AT THE CROSSING LOCATION. THESE ALTERNATIVE DESIGN WERE NOT SELECTED AS CLEARANCES WERE NOT MAINTAINABLE WHILE CROSSING UNDER THE 500KV TRANSMISSION LINE.

NO NEW LANDOWNER ARE EFFECTED BY THE PROPOSED EASEMENT.

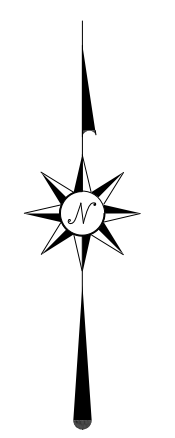


THE NEW 161KV TRANSMISSION LINE WILL OVERBUILD THE EXISTING 69KV TRANSMISSION LINE AND WILL FOLLOWING THE EXISTING 69KV TRANSMISSION LINE ROUTE

THE NEW 161KV TRANSMISSION LINE WILL OVERBUILD THE EXISTING 69KV TRANSMISSION LINE AND WILL FOLLOWING THE EXISTING 69KV TRANSMISSION LINE ROUTE



- PRELIMINARY
- FOR BID
- FOR CONSTRUCTION
- FOR RECORD
- "AS BUILT"
- REFERENCE



- LEGEND**
- EXISTING TRANSMISSION LINE
  - ROAD
  - RAILROAD
  - - - PROPOSED TRANSMISSION LINE
  - o PROPOSED POLE
  - o PROPOSED DOWNGUY
  - - - PROPOSED EASEMENT
  - - - PROPERTY LINE
  - /// ADDITIONAL EASEMENT

REV	DATE	DRFT	ENGR	REVISION DESCRIPTION
A	09/08/21		ABG	ISSUED FOR REFERENCE

W.O. SCALE: 1" = 200'

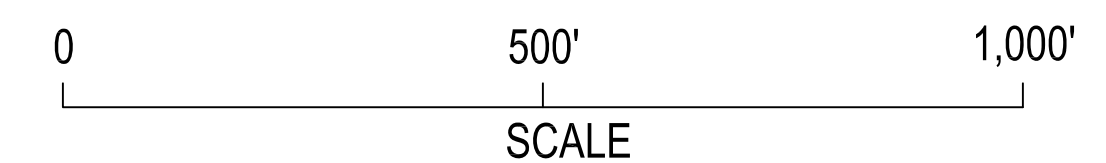
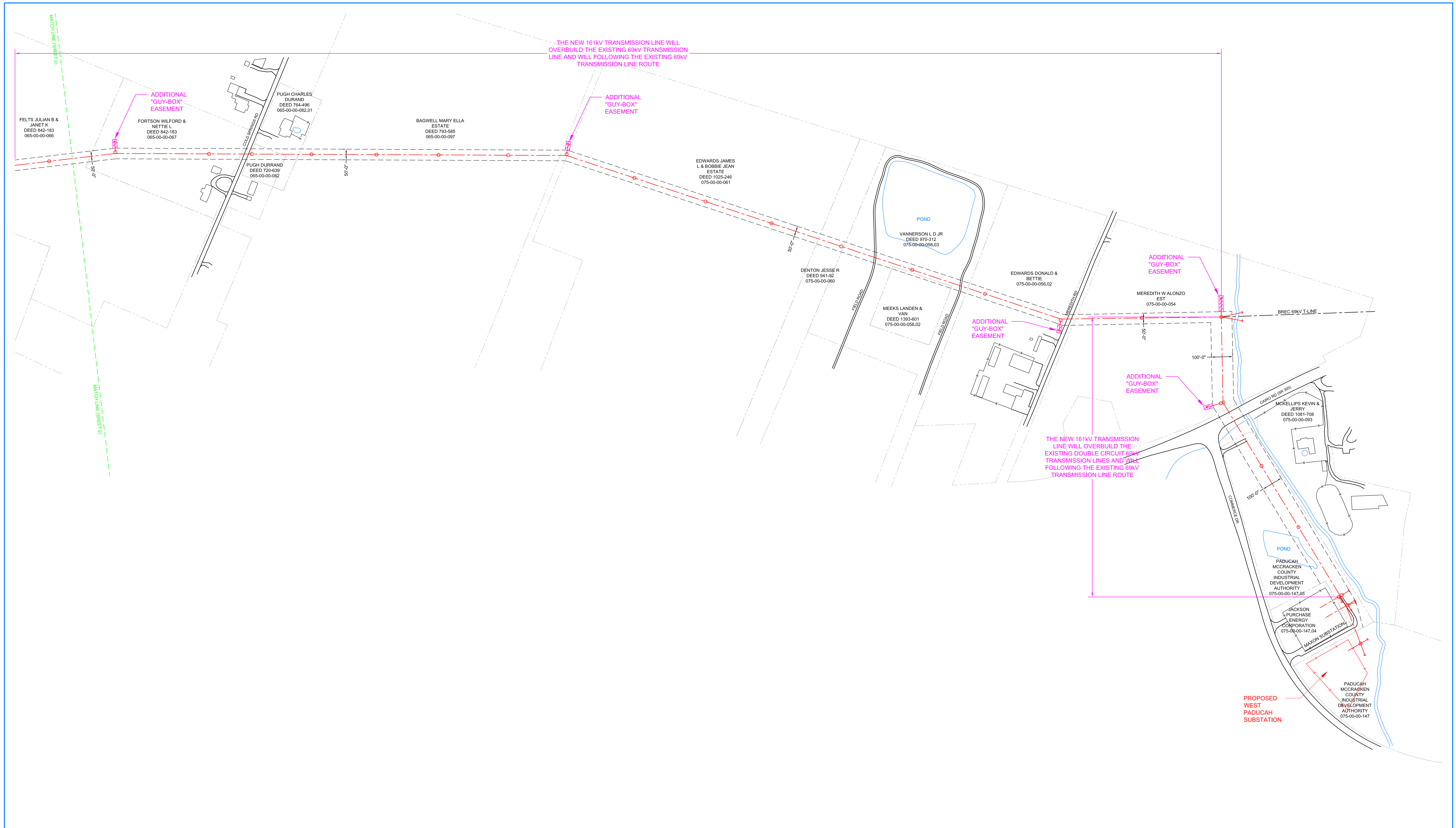
Case No. 2021-000275  
 Application Exhibit D  
 Page 2 of 7

WEST PADUCAH 161KV PROJECT  
 TRANSMISSION LINE  
 CENTERLINE & EASEMENT BOUNDARIES  
 ADDITIONAL EASEMENT DETAILS

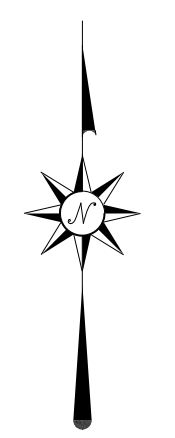
ENGINEER	ABG (P&D ENGINEERS)	DATE	09-08-2021
DRAWN			

SHEET 2 of 3





- PRELIMINARY
- FOR BID
- FOR CONSTRUCTION
- FOR RECORD
- "AS BUILT"
- REFERENCE




**LEGEND**

- EXISTING TRANSMISSION LINE
- ROAD
- RAILROAD
- - - PROPOSED TRANSMISSION LINE
- o PROPOSED POLE
- PROPOSED DOWNGUY
- - - PROPOSED EASEMENT
- - - PROPERTY LINE
- /// ADDITIONAL EASEMENT

REV	DATE	DRFT	ENGR	REVISION DESCRIPTION
A	09/08/21		ABG	ISSUED FOR REFERENCE

Case No. 2021-000275  
Application Exhibit D  
Page 3 of 7



WEST PADUCAH 161KV PROJECT  
TRANSMISSION LINE  
CENTERLINE & EASEMENT BOUNDARIES  
ADDITIONAL EASEMENT DETAILS

W.O.	DATE
SCALE: 1" = 200'	ENGINEER: ABG (P&D ENGINEERS)
DRAWN	DATE: 09-08-2021
	SHEET 3 of 3





BIG RIVERS ELECTRIC CORPORATION  
DEED 626-271  
055-00-00-016

MCCRACKEN COUNTY SUBSTATION

TILFORD GARY & KEITH & DARYL & BRENT  
DEED 1302-19  
055-00-00-007

EDWARDS JAMES I & BOBBIE J ESTATE  
DEED 1213-168  
055-00-00-017

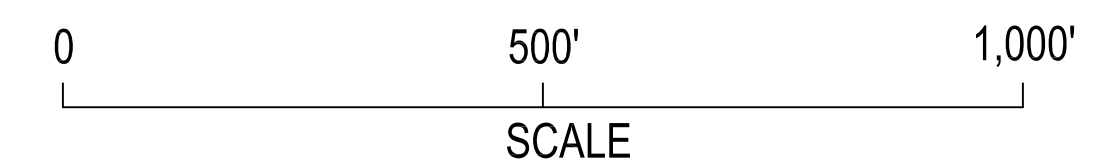
MCCLINTOCK TRUST II  
MCLINTOCK CHRISTOPHER L  
DEED 1324-169  
055-00-00-017.02

BUCHANAN BRENT & MICHELLE  
DEED 1074-498  
055-00-00-017.03

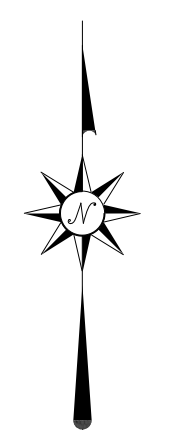
POYNER RONALD W ESTATE & PATRICIA  
DEED 536-140  
055-00-00-022

SMALLWOOD JAMES & MOON SMALLWOOD SALLY  
DEED 1370-709  
055-00-00-023

SORRELL ROBERT H  
DEED 1339-416  
055-00-00-027.04



- PRELIMINARY
- FOR BID
- FOR CONSTRUCTION
- FOR RECORD
- "AS BUILT"
- REFERENCE



- LEGEND**
- EXISTING TRANSMISSION LINE
  - ROAD
  - RAILROAD
  - - - PROPOSED TRANSMISSION LINE
  - o PROPOSED POLE
  - o PROPOSED DOWNGUY
  - - - PROPOSED EASEMENT
  - PROPERTY LINE

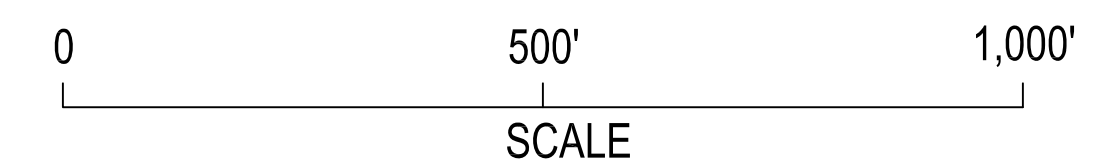
REV	DATE	DRFT	ENGR	REVISION DESCRIPTION
A	09/06/21		ABG	ISSUED FOR REFERENCE

Case No. 2021-000275  
Application Exhibit D  
Page 4 of 7

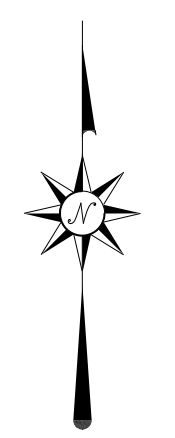


WEST PADUCAH 161kV PROJECT  
TRANSMISSION LINE  
CENTERLINE & EASEMENT BOUNDARIES

W.O.	DATE
SCALE: 1" = 200'	09-10-2021
ENGINEER	ABG (P&D ENGINEERS)
DRAWN	



- PRELIMINARY
- FOR BID
- FOR CONSTRUCTION
- FOR RECORD
- \*AS BUILT\*
- REFERENCE



- LEGEND**
- EXISTING TRANSMISSION LINE
  - ROAD
  - RAILROAD
  - - - PROPOSED TRANSMISSION LINE
  - PROPOSED POLE
  - PROPOSED DOWNGUY
  - - - PROPOSED EASEMENT
  - - - PROPERTY LINE

REV	DATE	DRFT	ENGR	REVISION DESCRIPTION
A	09/08/21		ABG	ISSUED FOR REFERENCE

W.O.  
SCALE: 1" = 200'

Case No. 2021-000275  
Application Exhibit D  
Page 5 of 7

WEST PADUCAH 161kV PROJECT  
TRANSMISSION LINE  
CENTERLINE & EASEMENT BOUNDARIES

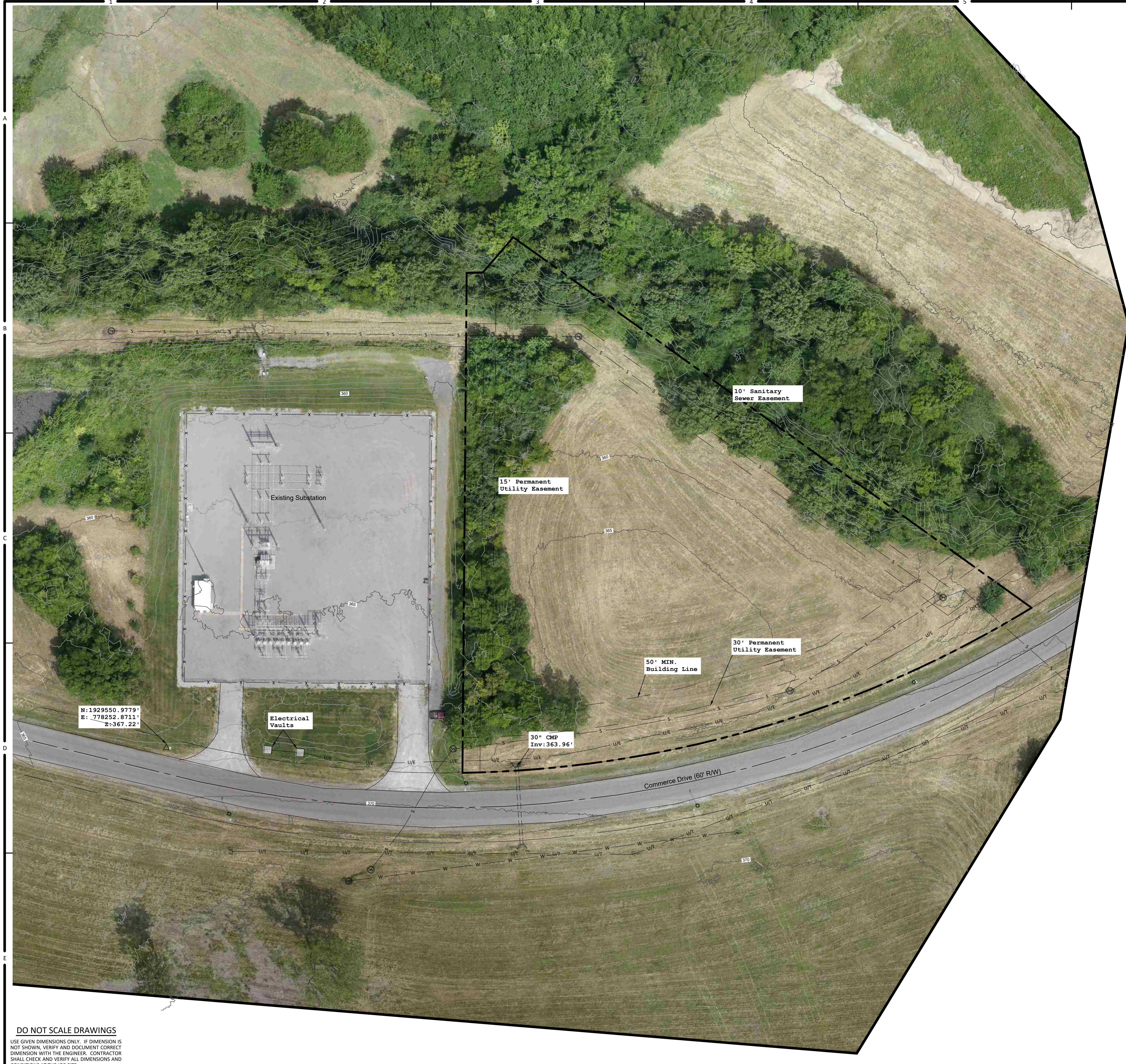
DRAWING REVIEW	DATE
ENGINEER	09-08-2021
DRAWN	

SHEET 2 of 3









N: 1929550.9779'  
 E: 778252.8711'  
 Z: 367.22'

Electrical  
 Vaults

30" CMP  
 Inv: 363.96'

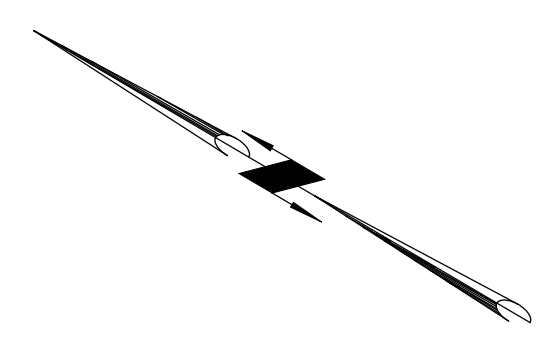
50' MIN.  
 Building Line

30' Permanent  
 Utility Easement

15' Permanent  
 Utility Easement

10' Sanitary  
 Sewer Easement

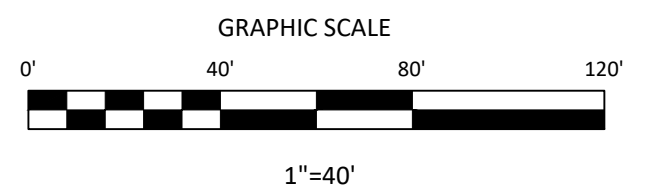
Existing Substation



**LEGEND**

— S — S —	EXISTING SANITARY SEWER
— X — X —	EXISTING FENCE
— U/T —	EXISTING UNDERGROUND TELEPHONE
— U/E —	EXISTING UNDERGROUND ELECTRIC
— — —	EXISTING CONTOUR
— OHE —	EXISTING OVERHEAD ELECTRIC
— — — — —	EXISTING STORM PIPE
— W — W —	EXISTING WATERLINE
— — — — —	EXISTING EDGE OF ASPHALT/GRAVEL
— — — — —	ROADWAY CENTERLINE
— — — — —	PROPERTY BOUNDARY
△	SURVEY CONTROL MONUMENT
▭	PROPOSED CONCRETE
— — — — —	BUILDING SETBACK LINE/UTILITY EASEMENT
— 500 —	EXISTING CONTOUR
☀	EXISTING LIGHT POLE
⊙	EXISTING UTILITY POLE
⊙	EXISTING WATER METER
⊙	EXISTING SANITARY SEWER MAN HOLE
⊙	EXISTING FIRE HYDRANT

- General Notes:**
1. This Exhibit Does Not Constitute a Legal Boundary Survey.
  2. Property Boundary Shown Established by BFW Engineering, for Paducah-McCracken Co. Industrial Dev. Auth., Sheet SV1.0.
  3. It Is The Responsibility Of The Site Developer To Obtain All Appropriate Permits From All The Governing Agencies That Have Jurisdiction Over The Area Where The Work Is Proposed To Be Done.
  4. All Utilities As Shown On This Plan Are Based On Locations Marked In The Field By The Respective Utility Companies.
  5. Source Of Elevations Is From A Topographic Survey Utilizing Aerial LIDAR conducted by Associated Engineers, Inc. August 5, 2021.



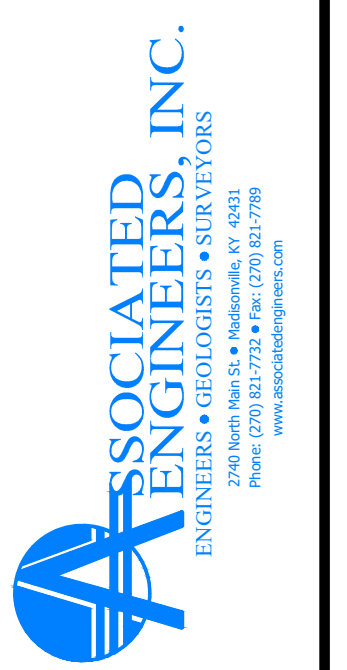
Case No. 2021-00275  
 Application Exhibit D  
 Page 1 of 7

For Buried Line/Cable Locations



CALL 48 HOURS IN ADVANCE OF DIGGING.

**DO NOT SCALE DRAWINGS**  
 USE GIVEN DIMENSIONS ONLY. IF DIMENSION IS NOT SHOWN, VERIFY AND DOCUMENT CORRECT DIMENSION WITH THE ENGINEER. CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE.



**PRELIMINARY**

JOB NO.	21-0141C	H.C.C.	J.S.L.
DRAWN BY			
CHECKED BY			
DATE	09/07/2021		

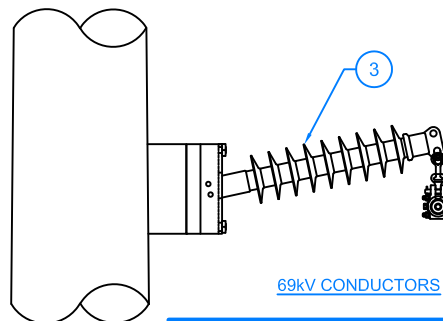
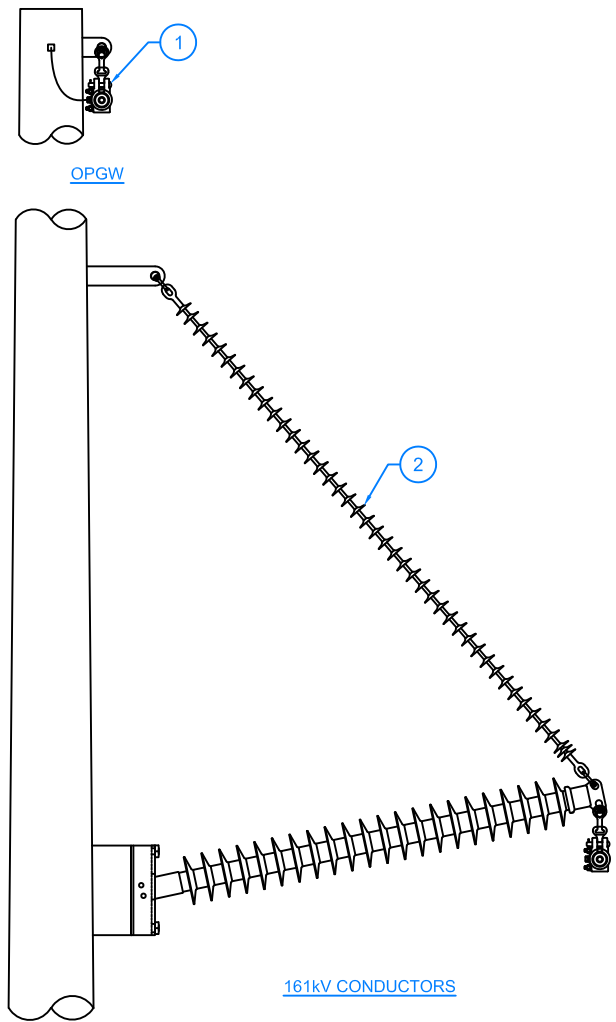
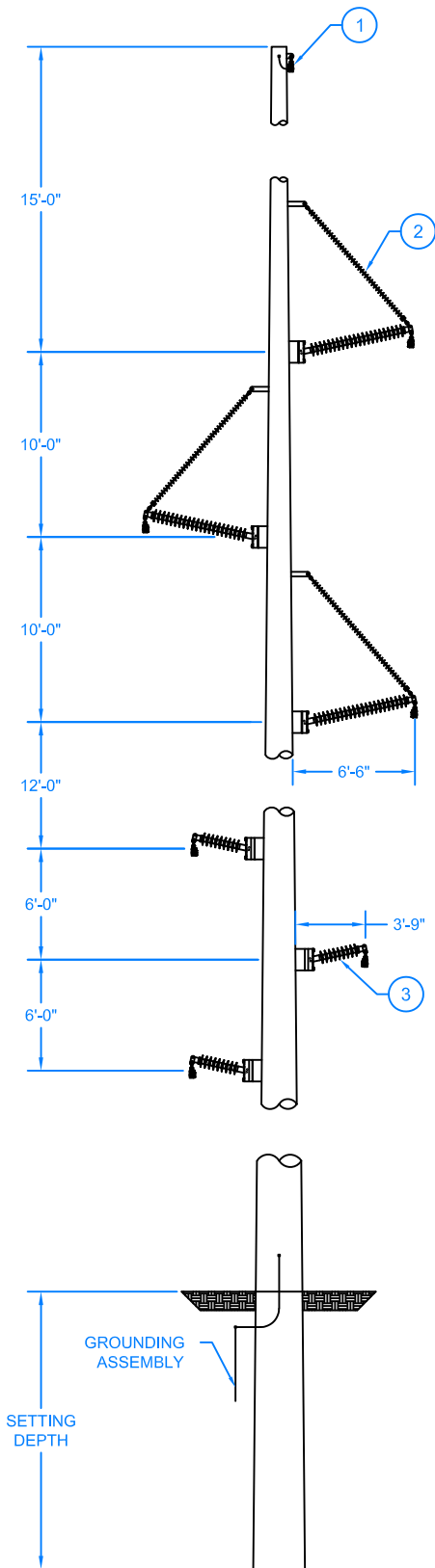
**BIG RIVERS ELECTRIC CORPORATION  
 WEST PADUCAH SUBSTATION EXPANSION  
 PADUCAH, KY  
 SITE SURVEY**

SHEET NUMBER

1



ITEM	QTY	DESCRIPTION	UNIT / PART NUMBER
1	1	OPGW ASSEMBLY, TANGENT	TM-4(B1)
2	3	161KV INSULATOR ASSEMBLY, TANGENT	TM-1-2PV(A5)
3	3	69KV INSULATOR ASSEMBLY, TANGENT	TM-3(S4F)



161/69KV TRANSMISSION LINE  
TANGENT

TP-161AS\_TP69G

DATE: 08/03/2021  
BY: ABG



**In the Matter of:**

<b>ELECTRONIC APPLICATION OF</b>	)	
<b>BIG RIVERS ELECTRIC CORPORATION</b>	)	
<b>FOR A CERTIFICATE OF PUBLIC</b>	)	<b>Case No.</b>
<b>CONVENIENCE AND NECESSITY TO</b>	)	<b>2021-00275</b>
<b>CONSTRUCT A 161 KV TRANSMISSION LINE IN</b>	)	
<b>McCRACKEN COUNTY, KENTUCKY</b>	)	

**CONFIDENTIAL**

**Application Exhibit F  
McCracken County Substation Drawings**

**INFORMATION SUBMITTED WITH  
MOTION FOR CONFIDENTIAL TREATMENT**





In the Matter of:

<b>ELECTRONIC APPLICATION OF</b>	)	
<b>BIG RIVERS ELECTRIC CORPORATION</b>	)	
<b>FOR A CERTIFICATE OF PUBLIC</b>	)	<b>Case No.</b>
<b>CONVENIENCE AND NECESSITY TO</b>	)	<b>2021-00275</b>
<b>CONSTRUCT A 161 KV TRANSMISSION LINE IN</b>	)	
<b>McCRACKEN COUNTY, KENTUCKY</b>	)	

**CONFIDENTIAL**

**Application Exhibit G  
Proposed West Paducah Substation Drawings**

**INFORMATION SUBMITTED WITH  
MOTION FOR CONFIDENTIAL TREATMENT**





201 Third Street  
P.O. Box 24  
Henderson, KY 42419-0024  
270-827-2561  
www.bigrivers.com

September \_\_, 2021

[Name]  
[Address]

RE: Notice of Proposed Electric Transmission Line Construction in  
McCracken County  
Parcel Id: [Parcel #]

Dear [Name]:

Big Rivers Electric Corporation (“*Big Rivers*”), a western Kentucky electric generation and transmission cooperative, proposes to construct a 3.8 mile 161 kilovolt transmission line circuit in McCracken County, Kentucky. The purpose of the proposed transmission line circuit is to serve new load growth in the west Paducah area.

The route for the proposed circuit is shown on the attached map. The circuit is proposed to extend from the existing Big Rivers substation located at 5486 Bradford Road, West Paducah, Kentucky (“*McCracken County Substation*”). It will run east to a substation located at 5425 Commerce Drive, Paducah, Kentucky, adjacent to Jackson Purchase’s Maxon Substation (“*West Paducah Substation*”).

Big Rivers is reducing the impacts of this new circuit on McCracken County property owners by utilizing existing easements and existing transmission lines. Big Rivers already has an easement across property you own in McCracken County for an existing transmission line, and it expects to add the new circuit to that existing line. Big Rivers will also replace old wooden poles with newer, stronger steel poles.

Big Rivers anticipates the project may require some very limited additional right-of way. Hunter Rickard, Easement Agent at Big Rivers, is in the process of contacting all owners of property where any existing easements will need to be increased. Mr. Rickard will also notify you before construction begins, and will remain your contact for any crop damage reimbursements. His email address is [Hunter.Rickard@BigRivers.com](mailto:Hunter.Rickard@BigRivers.com) and his phone number is 270-844-6210.

Big Rivers plans to file an application with the Kentucky Public Service Commission (“*Commission*”), by September 22, 2021, seeking a certificate of public convenience and necessity authorizing this project. The purpose of the Commission’s review of Big Rivers’ application is to determine whether the proposed circuit is required for public



convenience and necessity. You have the right to move to intervene and participate in the proceeding. You also have the right to request the Commission to conduct a public hearing in McCracken County on that application.

To request to intervene in the Commission's proceeding on Big Rivers' application, or to request a public hearing in that case, you should contact the Executive Director, Public Service Commission, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602-0615, telephone number (502) 564-3940. The docket number under which this application will be processed is 2021-00275.

A motion to intervene shall include the movant's full name, mailing address, and electronic mail address and shall state his or her interest in the case and how intervention is likely to present issues or develop facts that will assist the Commission in fully considering the matter without unduly complicating or disrupting the proceedings. The motion may also include a request for delivery of Commission order by United States mail and shall state how good cause exists for that means of delivery.

A request for a public hearing shall be requested no later than thirty (30) days after Big Rivers files its application, and shall contain the docket number of the case; the name, address, and telephone number of the person requesting the hearing; and a statement as to if the person requesting the hearing wishes to participate in an evidentiary hearing or to make unsworn public comments. If a person requesting a local public hearing wishes to participate in an evidentiary hearing as well, that person shall also apply to intervene in the Commission's case.

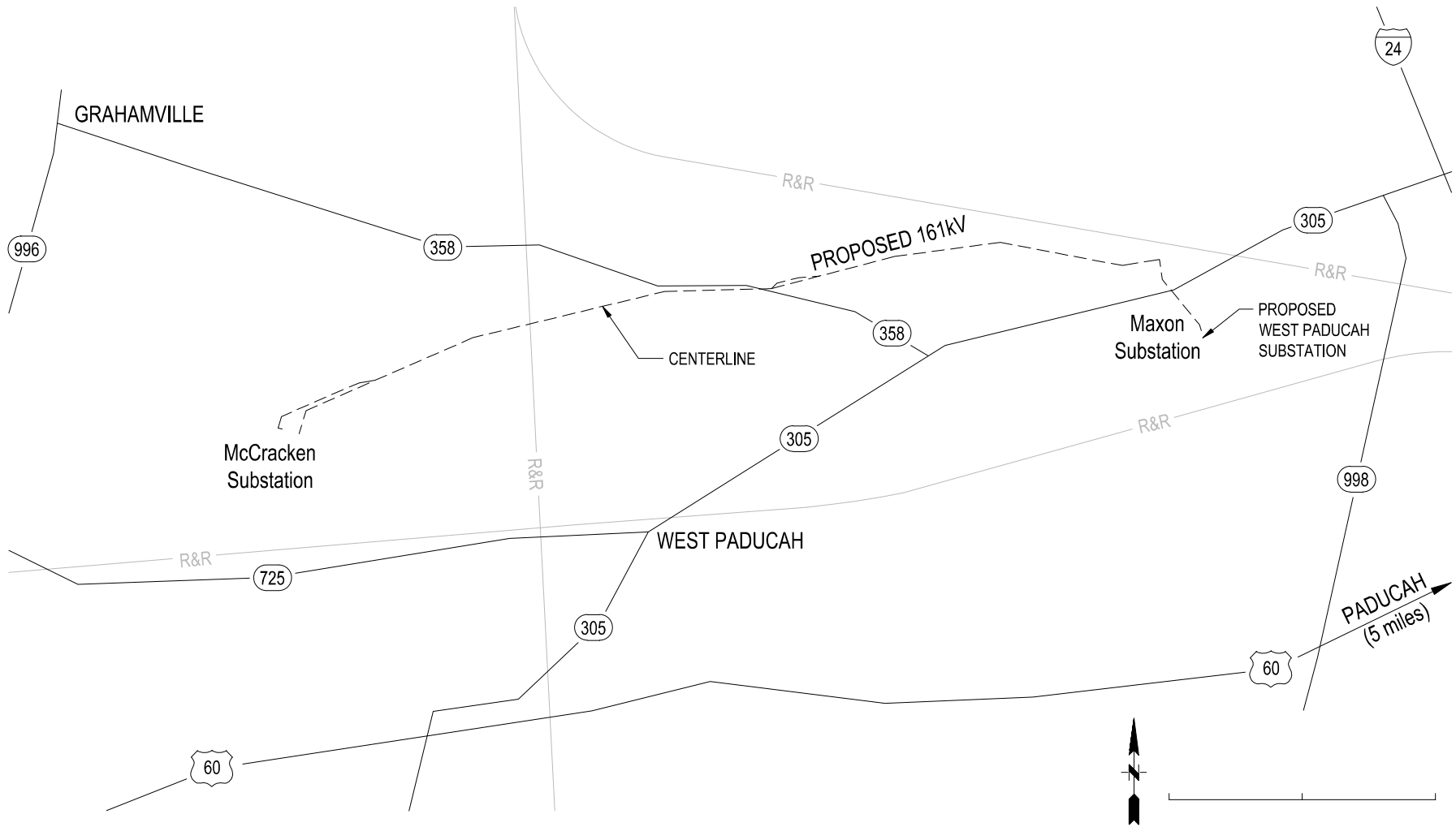
If you have any questions for me, you may contact me at (270) 827-2561 or via email at [Jerrod.Thomas@BigRivers.com](mailto:Jerrod.Thomas@BigRivers.com).

Sincerely yours,

BIG RIVERS ELECTRIC CORPORATION

Jerrod Thomas, P.E.  
Director Engineering

**Enclosure (Map)**



Name	Address_Li	City	State	Zip_Code
TILFORD GARY & KEITH & DARYL & BRENT	8865 OGDEN LANDING ROAD	WEST PADUCAH	KY	42086
EDWARDS JAMES I & BOBBIE J ESTATE	6430 OLD CAIRO ROAD	PADUCAH	KY	42001
MCCLINTOCK TRUST II MCCLINTOCK CHRISTOPHER L	8370 OGDEN LANDING ROAD	WEST PADUCAH	KY	42086
BUCHANAN BRENT & MICHELLE	8230 OGDEN LANDING ROAD	WEST PADUCAH	KY	42086
POYNER RONALD W ESTATE & PATRICIA	8030 OGDEN LANDING ROAD	WEST PADUCAH	KY	42086
*WEST MCCRACKEN COUNTY WATER	DISTRICT	WEST PADUCAH	KY	42086
SMALLWOOD JAMES & MOON SMALLWOOD SALLY	7936 OGDEN LANDING ROAD	WEST PADUCAH	KY	42086
SORRELL ROBERT H	7830 OGDEN LANDING ROAD	WEST PADUCAH	KY	42086
UNITED PROPANE GAS CO INC	P O BOX 2450	PADUCAH	KY	42002
BATES EULA L	7740 OGDEN LANDING ROAD	WEST PADUCAH	KY	42086
GRAY JERRY W	7720 OGDEN LANDING ROAD	WEST PADUCAH	KY	42086
GRAY JERRY W & PEGGY	7720 OGDEN LANDING ROAD	WEST PADUCAH	KY	42086
HERNANDEZ JOSE GABRIEL	2621 FAIRMONT STREET	PADUCAH	KY	42003
HOLLAND ALCENIA & ARON BRADSHAW				
ETALS LUCILLE CLARK	1353 REED AVE	PADUCAH	KY	42001
WILSON ELMUS & LILLY	7625 OGDEN LANDING ROAD	WEST PADUCAH	KY	42086
BELL JAMES E & STELLA	7540 OGDEN LANDING ROAD	WEST PADUCAH	KY	42086
TITSWORTH OTIS	6350 MAYFIELD METROPOLIS ROAD	WEST PADUCAH	KY	42086
WILBER LAWRENCE & DONALD MINNIE C/O MINNIE DONALD	P O BOX 7914	PADUCAH	KY	42002
BELL JAMES EDWARD II	7370 OGDEN LANDING ROAD	WEST PADUCAH	KY	42086
HILL E W EST	RT 1	KEVIL	KY	42053
FRAZEE JOSEPH	6955 MAYFIELD METROPOLIS ROAD	WEST PADUCAH	KY	42086
WILBER LAWRENCE & WHITE DIANE & REEVES EDNA C/O MINNIE DONALD	P O BOX 7914	PADUCAH	KY	42002
FRAZEE JOSEPH	6955 MAYFIELD METROPOLIS ROAD	WEST PADUCAH	KY	42086
MCDONALD FARMS LLC	11670 WOODVILLE ROAD	KEVIL	KY	42053
FELTS JULIAN B & JANET K	4445 COLD SPRINGS ROAD	WEST PADUCAH	KY	42086
FORTSON WILFORD & NETTIE L	4515 COLD SPRINGS ROAD	WEST PADUCAH	KY	42086
PUGH DURRAND	4570 COLD SPRINGS ROAD	WEST PADUCAH	KY	42086
PUGH CHARLES DURAND	4570 COLD SPRINGS ROAD	WEST PADUCAH	KY	42086
BAGWELL MARY ELLA ESTATE	3901 MAXON ROAD	PADUCAH	KY	42001
EDWARDS JAMES L & BOBBIE JEAN ESTATE	6430 CAIRO ROAD	PADUCAH	KY	42001
DENTON JESSE R	6361 CAIRO ROAD	PADUCAH	KY	42001
VANNERSON L D JR	6309 CAIRO ROAD	PADUCAH	KY	42001
MEEKS LANDEN & VAN	1215 OXFORD TRACE	PADUCAH	KY	42001
EDWARDS DONALD & BETTIE	4041 ALAMEDA CRESCENT	PADUCAH	KY	42001
MEREDITH W ALONZO EST	6125 OLD CAIRO ROAD	PADUCAH	KY	42001
MCKELLIPS KEVIN & JERRY	101 ORCHARD VIEW DRIVE	PADUCAH	KY	42001
**PADUCAH MCCRACKEN COUNTY INDUSTRIAL DEVELOPMENT AUTHORITY		PADUCAH	KY	42001

\* Mailed to 8020 Ogden Landing Road West Paducah, KY 42086

\*\* Mailed to 300 3rd Street Paducah, KY 42003



McCRACKEN CO. | GRAVES CO. | MARSHALL CO. | LYON CO. | CALDWELL CO. | MASSAC CO.

# CLASSIFIEDS

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Buy and sell across Western Kentucky & Southern Illinois in one location. Your ad will appear in 6 newspapers!

**Search It.**  
[paducahsun.com](http://paducahsun.com)

**PAYROLL CLERK**  
 Paxton Media Group is the parent company of The Paducah Sun and WPSD-TV. PMG has an immediate opening for a part-time Payroll Clerk.

The position's responsibilities include but are not limited to payroll processing, database maintenance, as well as other administrative functions. Office experience in a fast paced environment is necessary. Payroll experience is helpful.

Qualified applicants should send resume and salary requirements to:

**Paxton Media Group  
 Human Resources  
 201 South 4th Street  
 Paducah, KY 42003**

No phone calls please.  
 Paxton Media Group is an equal opportunity employer and does not discriminate on the basis of race, religion, sex, age, national origin or disability.

**0100 ANNOUNCEMENTS**

Free Wooden Pallets located behind The Paducah Sun 408 Kentucky Ave Paducah Ky

Now available **Classified Specialist**  
 Taking your calls  
 Monday-Friday 8AM-4:30PM  
 Call Jodi at 270-575-8705

**0150 GARAGE / ESTATE SALES**

1466 Krebs Station  
 16th, 17th, 18th 6 families, tools DECO, tons of items

**0200 EMPLOYMENT**

Carpenters Helper wanted, no experience or tools needed, flexible hours, 12/hr  
 Call 270-217-3996 to apply

**0700 REAL ESTATE FOR SALE**

**Land For Sale**  
 Livingston County  
 21.878 acres on Newbern Rd. 1.5 acre pond, underground electricity, great well, 16" X 19" gazebo with water and electricity beautiful building sites 270-969-1456 serious inquires only

**0900 LEGALS**

In accordance with Chapter 65 and 424 of the KY Revised Statutes, the financial records of the Paducah - McCracken County Industrial Development Authority for the year ending June 30, 2021 are available for viewing at 300 S 3rd St., Paducah, KY 42003.

**PADUCAH BOARD OF ADJUSTMENT**

On Monday, September 27, 2021 at 5:30 PM, the Paducah Board of Adjustment will conduct a public hearing regarding:

Case # VAR2021-0011 25' front yard variance request for one two-family structure to be located 15' from the front property line and any future two-family structures to be located 15' from the front property line. Request is made by Tyler & Ashley Pittman.

The hearing will be held in the Commission Chambers of Paducah City Hall, located at 300 South 5th Street, Paducah KY 42003.

Inquires may be made to 270-444-8690 ext. 2067 or <http://www.paducahky.gov/board-adjustment>. Applications may be continued from time to time.

**Notice of Proposed Electric Transmission Line Construction Project**

Big Rivers Electric Corporation ("Big Rivers"), a western Kentucky electric generation and transmission cooperative, proposes to construct a 3.8 mile, 161 kilovolt transmission line circuit in McCracken County, Kentucky. The purpose of the proposed transmission line circuit is to serve new load growth in the west Paducah area.

The proposed circuit will largely be built over the top of existing 69 kilovolt transmission lines. The route will begin at the existing Big Rivers substation (McCracken County Substation) located on Bradford Road, West Paducah, Kentucky. It will run east to a substation located at 5425 Commerce Drive, Paducah, Kentucky. The circuit will typically be constructed using single pole steel structures. Big Rivers is sending a letter to each property owner (according to Property Valuation Administrators records) over whose property the proposed circuit is expected to cross.

Big Rivers plans to file an application with the Kentucky Public Service Commission ("Commission"), by September 22, 2021, seeking a certificate of public convenience and necessity authorizing this project. The purpose of the Commission's review of Big Rivers' application is to determine whether the proposed circuit is required for public convenience and necessity. Interested persons have the right to move to intervene and participate in the proceeding. They also have the right to request the Commission to conduct a public hearing in McCracken County on that application.

Interested parties may request to intervene in the Commission's proceeding on Big Rivers' application, or may request a public hearing in that case, by contacting the Executive Director, Public Service Commission, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602-0615, telephone number (502) 564-3940. The docket number under which this application will be processed is Case No. 2021-00275. You may also direct questions to Big Rivers by contacting Jerrod Thomas, Big Rivers Director of Engineering, at (270) 827-2561.

**Too Much Savings to Measure**

**JUMBLE** THAT SCRAMBLED WORD GAME  
 By David L. Hoyt and Jeff Knurek

Unscramble these Jumbles, one letter to each square, to form four ordinary words.

WKATE  
 MTTPE  
 LPBEEB  
 VLSIAH

Get the free JUST JUMBLE app - Follow us on Twitter @PlayJumble

THE COST TO USE THE FACILITY'S NEW ROCK-CLIMBING WALLS SEEMED ---

Now arrange the circled letters to form the surprise answer, as suggested by the above cartoon.

(Answers tomorrow)

Yesterday's Jumbles: LOBBY WOULD HARBOR TICKET  
 Answer: When the last member of their bowling team arrived, they were - READY TO ROLL

**TIME FOR A NEW CAR?**

**The Paducah Sun Classifieds are the place to look!**

**SUDOKU**

Sudoku is a number-placing puzzle based on a 9x9 grid with several given numbers. The object is to place the numbers 1 to 9 in the empty squares so that each row, each column and each 3x3 box contains the same number only once. The difficulty level of the Concepts Sudoku increases from Monday to Sunday.

**Concepts Sudoku** By Dave Green

	5	4		6				
	9			8			6	7
				5				1
2		7	8	9				
	1						9	
			4	7	3			2
5			9					
1	2			7				4
			3			2	5	

Difficulty Level ★★★ 9/16

**Answer to previous puzzle**

4	7	8	6	1	3	9	5	2
3	1	6	2	5	9	7	8	4
5	9	2	4	8	7	6	1	3
8	3	5	9	4	1	2	7	6
6	4	1	7	2	5	3	9	8
7	2	9	3	6	8	5	4	1
2	8	3	5	7	4	1	6	9
1	6	7	8	9	2	4	3	5
9	5	4	1	3	6	8	2	7

Difficulty Level ★★★ 9/15

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at [Paducahsun.com](http://Paducahsun.com)

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