



**COMMONWEALTH OF KENTUCKY  
BEFORE THE PUBLIC SERVICE COMMISSION**

**In the Matter of:**

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

**Responses to Commission Staff's  
Second Request for Information  
dated**

**November 10, 2021**

**FILED: November 17, 2021**

**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, Christopher S. (Chris) Bradley, verify, state, and affirm that I prepared or supervised the preparation of my responses to data requests filed with this Verification, and that those responses are true and accurate to the best of my knowledge, information, and belief formed after a reasonable inquiry.



Christopher S. (Chris) Bradley

COMMONWEALTH OF KENTUCKY )  
COUNTY OF HENDERSON )

SUBSCRIBED AND SWORN TO before me by Christopher S. (Chris) Bradley on this the 17<sup>th</sup> day of November, 2021.



Notary Public, Ky. State at Large  
My Commission Expires \_\_\_\_\_

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

**BIG RIVERS ELECTRIC CORPORATION**  
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1 **Item 1)**      *Refer to BREC's Responses to Commission Staff's First Request*  
2 *for Information, Item 3 and to the Application, Exhibit D.*

3      *a. For the maps provided in Exhibit D of the Application, provide an*  
4 *update that includes the delineation of the 500-foot zone on either*  
5 *side of the centerline of the proposed transmission line.*

6      *b. If the proposed transmission line is moved within the 500-foot zone*  
7 *on either side of the centerline, explain whether the new easement*  
8 *would be 50 feet on either side of the new centerline.*

9  
10 **Response)**

11      a. Please refer to the updated Exhibit D, which includes a 500' delineation  
12 line on either side of the existing 69 kV transmission centerline.

13      b. If unexpected conditions were discovered and required a move in the  
14 proposed transmission line within the requested 500' area on either side of  
15 the existing centerline, the new easement width would follow Big Rivers'  
16 standards for new transmission easements. Big Rivers' standards for new

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1 transmission easements are: 125' (62.5' on either side of centerline) for  
2 161kV transmission lines and 100' (50' either side of centerline) for 69kV  
3 transmission lines.

4

5

6 **Witness)** Christopher S. Bradley

7

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

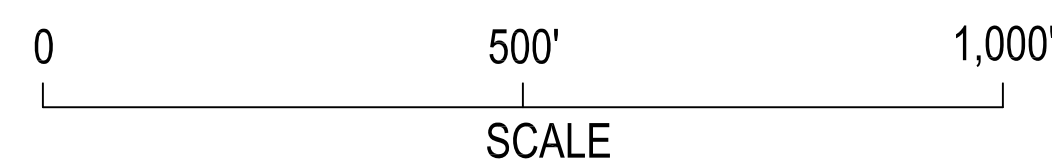
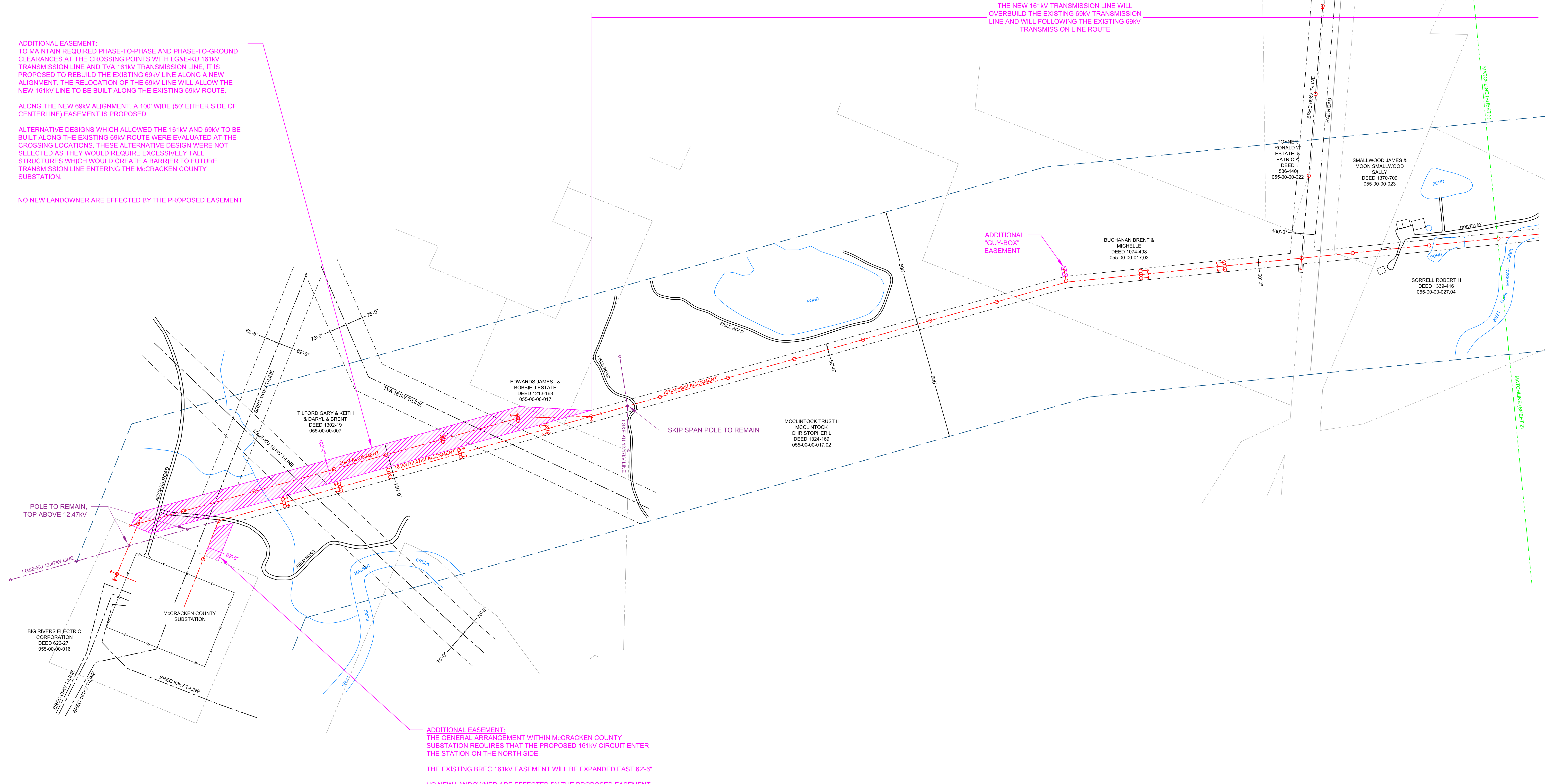
SKIP SPAN POLE TO REMAIN

POLE TO REMAIN, TOP ABOVE 12.47KV

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.



- PRELIMINARY
- FOR BID
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- FOR RECORD
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- REFERENCE



- LEGEND**
- EXISTING TRANSMISSION LINE
  - ROAD
  - RAILROAD
  - - - PROPOSED TRANSMISSION LINE
  - PROPOSED POLE
  - PROPOSED DOWNGUY
  - - - PROPOSED EASEMENT
  - - - PROPERTY LINE
  - - - 500' CENTERLINE OFFSET
  - /// ADDITIONAL EASEMENT

REV	DATE	DRFT	ENGR	REVISION DESCRIPTION
A	09/06/21		ABG	ISSUED FOR REFERENCE
B	09/09/21		ABG	ADDED LG&E-KU DISTRIBUTION
C	11/11/21		ABG	ADDED 500' CENTERLINE OFFSETS

Case No. 2021-00275  
Attachment to Response to PSC 2-1  
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WEST PADUCAH 161KV PROJECT  
TRANSMISSION LINE  
CENTERLINE & EASEMENT BOUNDARIES  
ADDITIONAL EASEMENT DETAILS

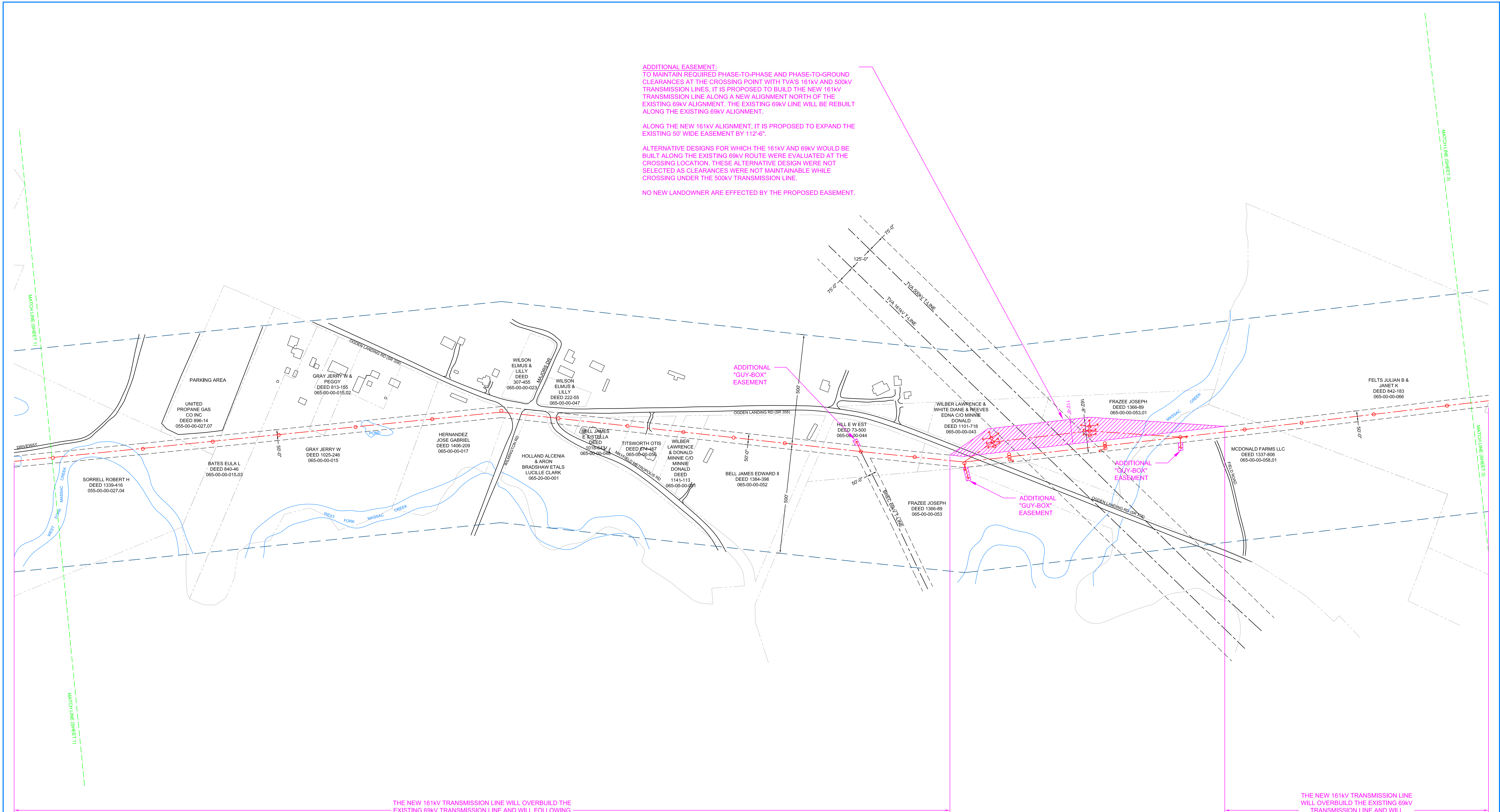
W.O.		DATE	
SCALE:	1" = 200'	ENGINEER	ABG (P&D ENGINEERS)
DRAWN		DATE	09-10-2021
			SHEET 1 of 3

**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".

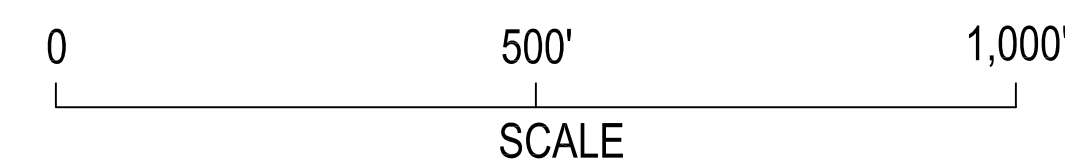
ALTERNATIVE DESIGNS FOR WHICH THE 161KV AND 69KV WOULD BE BUILT ALONG THE EXISTING 69KV ROUTE WERE EVALUATED AT THE CROSSING LOCATION. THESE ALTERNATIVE DESIGN WERE NOT SELECTED AS CLEARANCES WERE NOT MAINTAINABLE WHILE CROSSING UNDER THE 500KV TRANSMISSION LINE.

NO NEW LANDOWNER ARE EFFECTED BY THE PROPOSED EASEMENT.

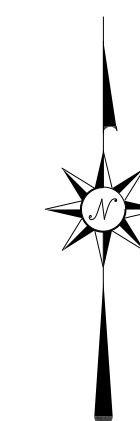


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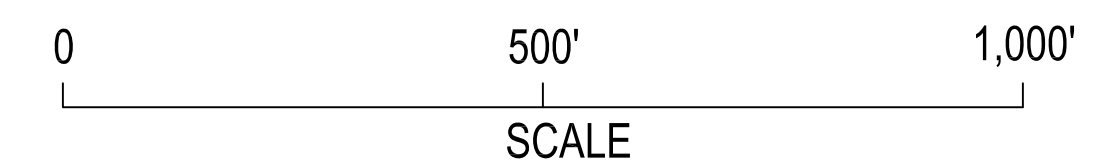
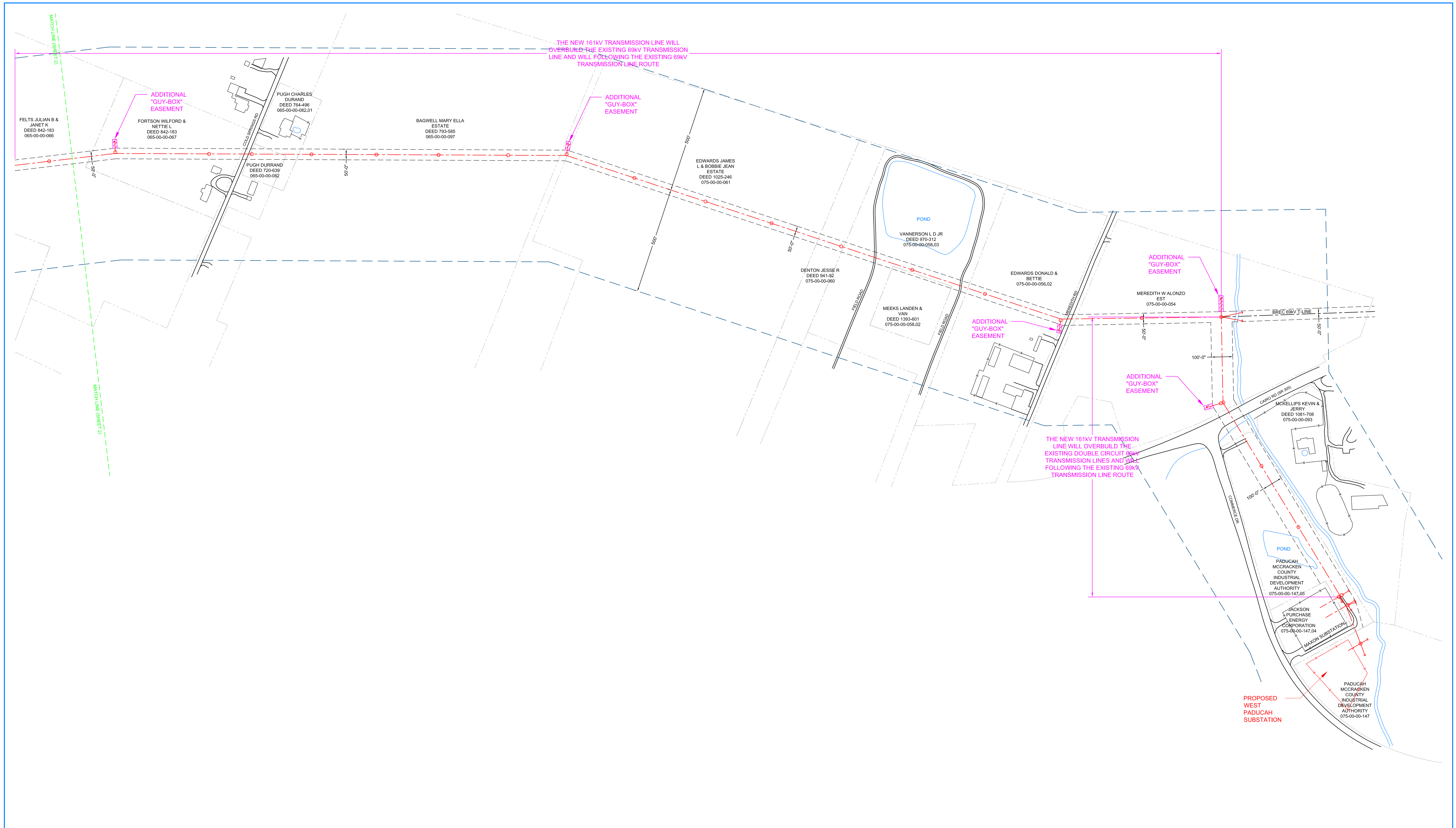
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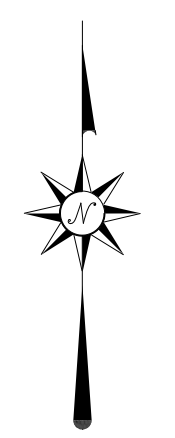
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SHEET 2 of 3



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**LEGEND**

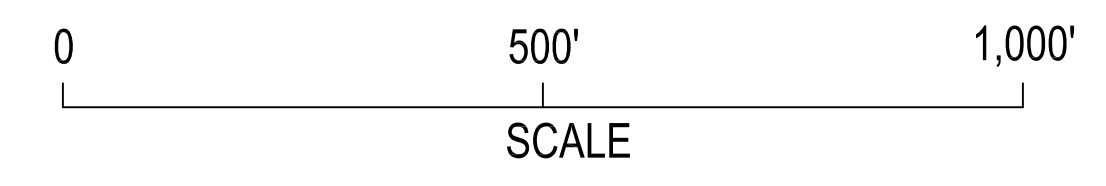
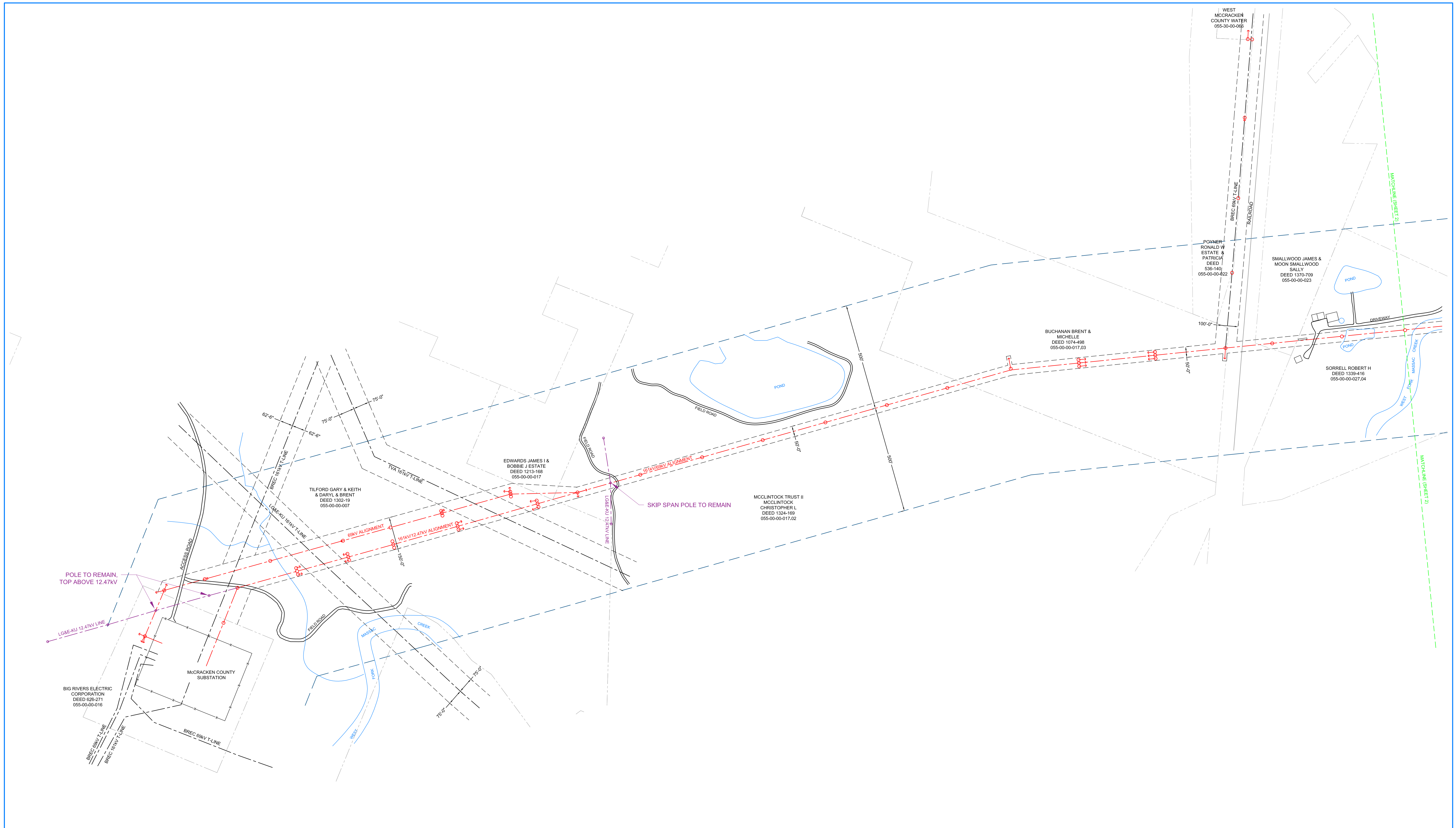
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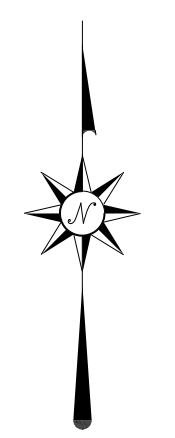
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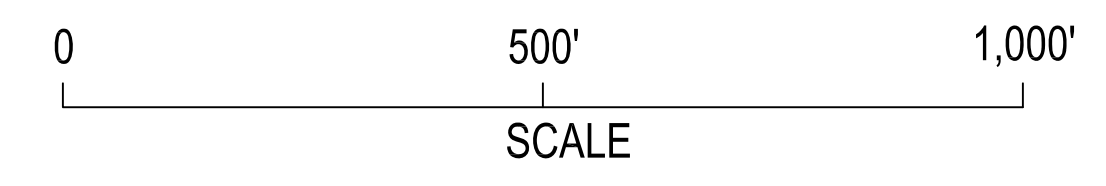
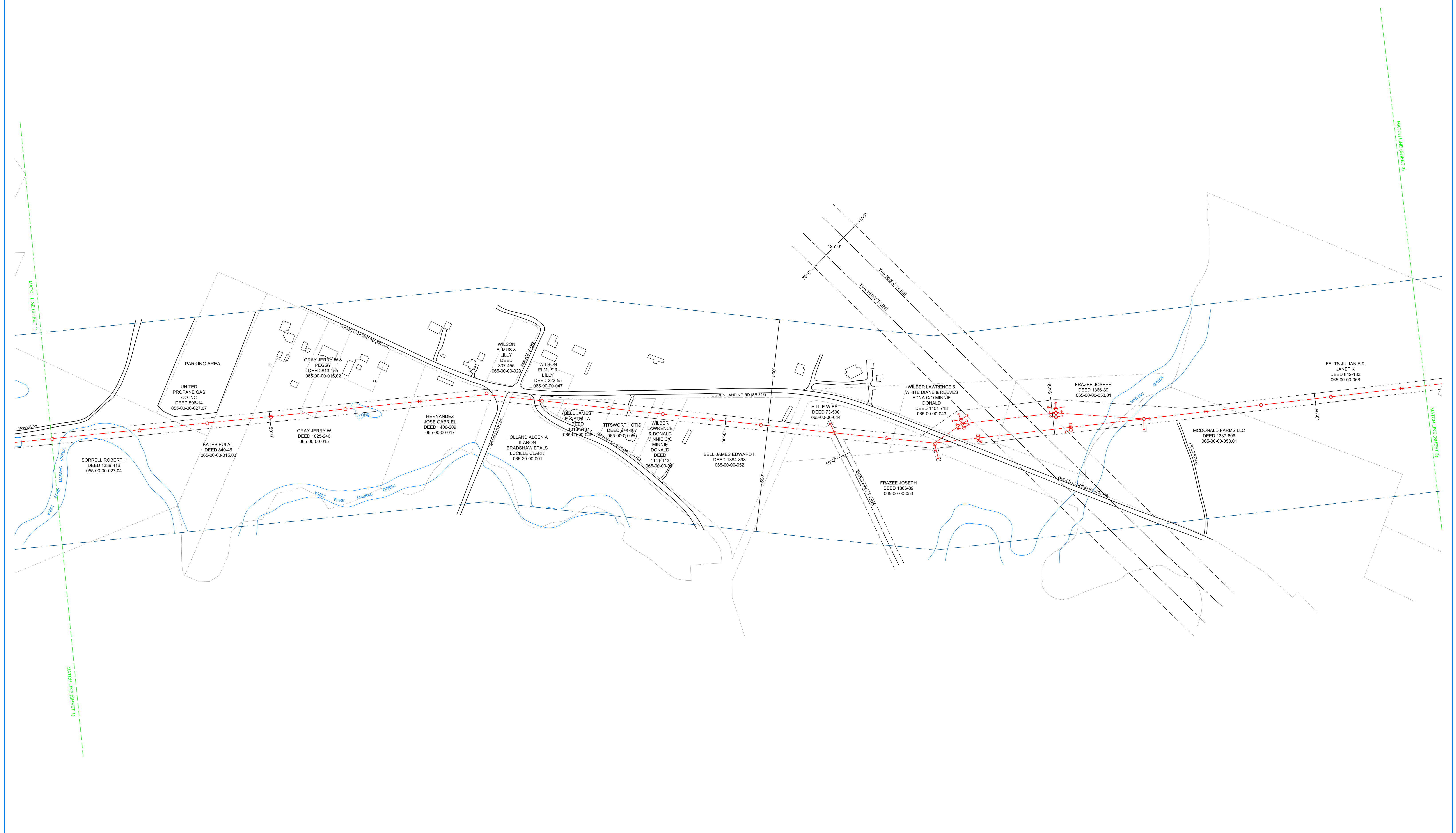
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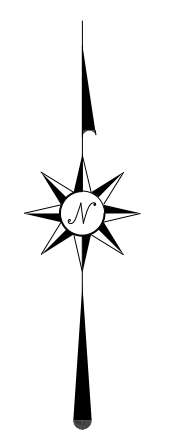
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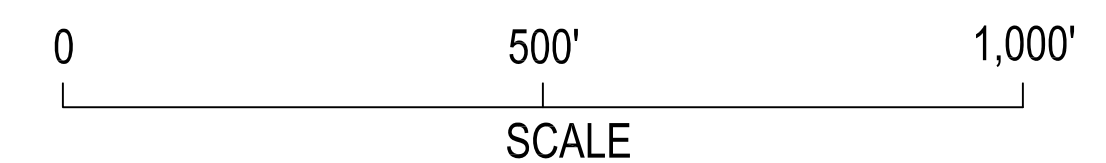
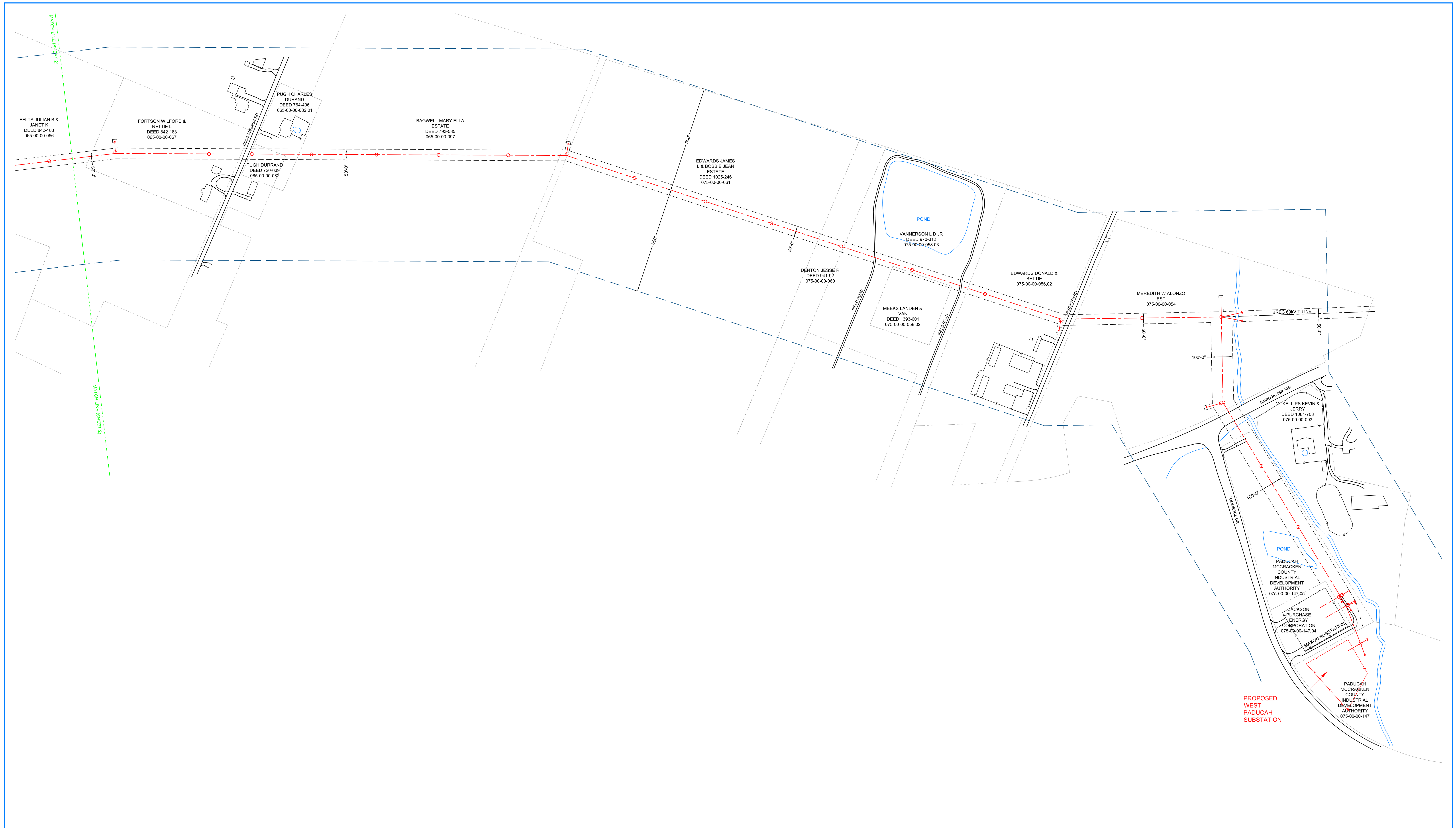


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ELECTRIC CORPORATION

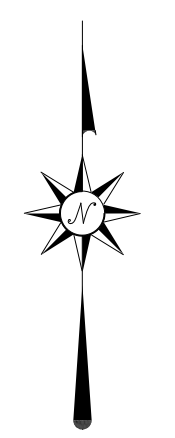
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