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PUCO

CONSTRUCTION NOTICE FOR

RED BANK 138 KV ELECTRIC TRANSMISSION LINE RELOCATION

PUCO Case Number 10-3100-EL-BNR

Submitted pursuant to OAC 4906-11-01

Duke Energy Ohio

December 20, 2010

This is to certify that the images appearing are an accurate and complete reproduction of a cise tile locument delivered in the regular course of busines rechnician ______ Date Processed ______

(1) **Project Name**

This proposed project is the Red Bank Substation 138,000 (138 kV) Electric Transmission Line Relocation.

(2) **Project Description**

This project qualifies as a Construction Notice (CN) because it fits the criteria of OAC 4906-1-01, Appendix A (1) (D), "Line(s) one hundred twenty-five kV and above, but less than three hundred kV, and not greater than 0.2 miles in length." The proposed 138 kV transmission line relocation is approximately 490 feet or 0.09 miles in length and will relocate a portion of Duke Energy's 138kV Line F1883 from the east edge to the west edge of the substation.

A project vicinity map and an engineering line drawing for the project are included.

(3) Project Need

This project is required to provide continued reliable electricity output through Red Bank Substation. The proposed project will accommodate the future expansion of Red Bank Substation (to be submitted under a separate PUCO filing) to the east, where the 138 kV transmission line is presently. A substation expansion is required for the construction of a more reliable air insulated ring bus to replace the existing 4 breaker sulfur hexafluoride (SF6) insulated ring bus which is at the end of its useful life.

(4) Schedule

Work on the project is planned to begin early March 2010. The overall project has an inservice date of May 15, 2011.

(5) Estimated Costs

The project is expected to cost approximately \$336,000.

(6) **Operating Characteristics**

The proposed transmission line will continue to operate at 138 kV and require approximately 490 feet or 0.09 miles of relocated 1113ACSR45x7 conductor, 3 new steel poles, and the associated appurtenances. The locations of the new poles are identified on the included engineering line drawing. The pole heights will be 115, 110 and 95 feet, as shown on the structure specification drawings. Additional specifications for these structures are also included on the engineering line drawing.

(7) Area Maps and Directions to Project Area

A street line map of the project vicinity is attached to this CN; the smaller scale engineering line drawing also shows the project route relative to Red Bank and Brotherton Roads and the existing substation and other transmission lines.

One way to reach the project location from Columbus is to take I-71 south for about 96 miles then take exit #9 south onto Red Bank Expressway. Continue on Red Bank for approximately 2 miles then turn right onto Brotherton Road, Red Bank Substation is immediately on the right (north).

(8) **Property Agreements and Easements**

The entirety of this project is on Duke Energy property and no additional easements are required.

(9) Notification of Officials

A copy of the letter transmitting this Construction Notice to the Mayor of The City of Cincinnati is included in Appendix A. No public information program, materials, or meetings were conducted for the siting of this proposed facility.

(10) Additional Information

(i) Electric and Magnetic Fields: Electric and magnetic fields are not expected to be significantly increased in the project vicinity due to the presence, and interference effects, of the existing 345 kV and 138 kV transmission lines and Red Bank Substation. The nearest residential structures are an apartment building/condo complex located approximately 750 feet east of Red Bank Substation on the opposite side of Red Bank Road.

(*ii*) Land use: Land use in project vicinity is a combination of light industrial and commercial properties. Land use under the project centerline is comprised of existing substation stone yard, maintained grass, or scrub/shrub vegetation with a few trees.

(iii) Ecology: No critical habitat for species of concern or individuals of such species was identified during a field survey conducted on December 3, 2010. No wetlands or surface drainage features are located under the proposed relocation, although a fully concrete-lined portion of Duck Creek is to the west of the relocation. Structure number 103C will require some clearing immediately around the pole location in an area dominated by Amur honeysuckle (Lonicera maackii) and a few hackberry (Celtis occidentalis) trees.

APPENDIX A

LETTER TO OFFICIAL

December 20, 2010

Mayor Mark Mallory City of Cincinnati – Office of the Mayor 801 Plum St. Room 150 Cincinnati, OH 45202-1979

Dear Mayor Mallory:

RE: Red Bank Substation 138kV Electric Transmission Line Relocation

Please find enclosed a copy of a Construction Notice that Duke Energy Ohio sent to the Ohio Power Siting Board regarding the planned relocation of about 490 feet of 138 kV transmission line. This project is required in preparation for an upcoming expansion to Red Bank Substation, for which you will receive an additional notification.

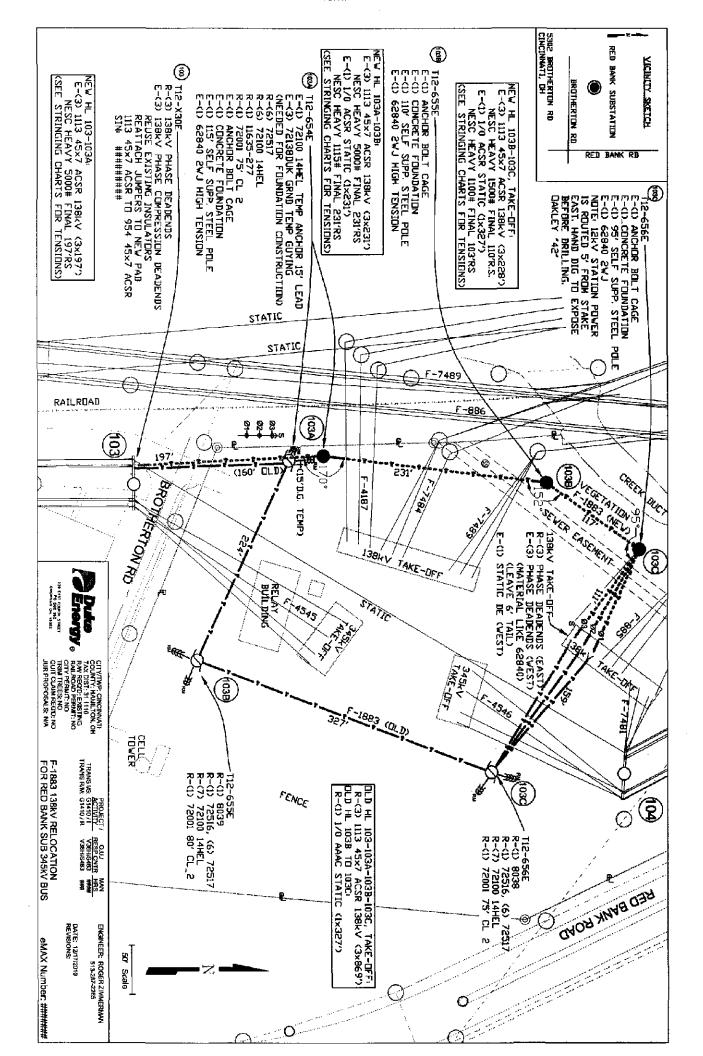
In accordance with Ohio Administrative Code (OAC) 4906-1-01 Appendix A, we are required to prepare this Construction Notice for the Ohio Power Siting Board and in compliance with OAC 4906-11-02(C); we are hereby providing you with a copy. Please feel free to call me at (317) 838-2428 if you have any questions about this project.

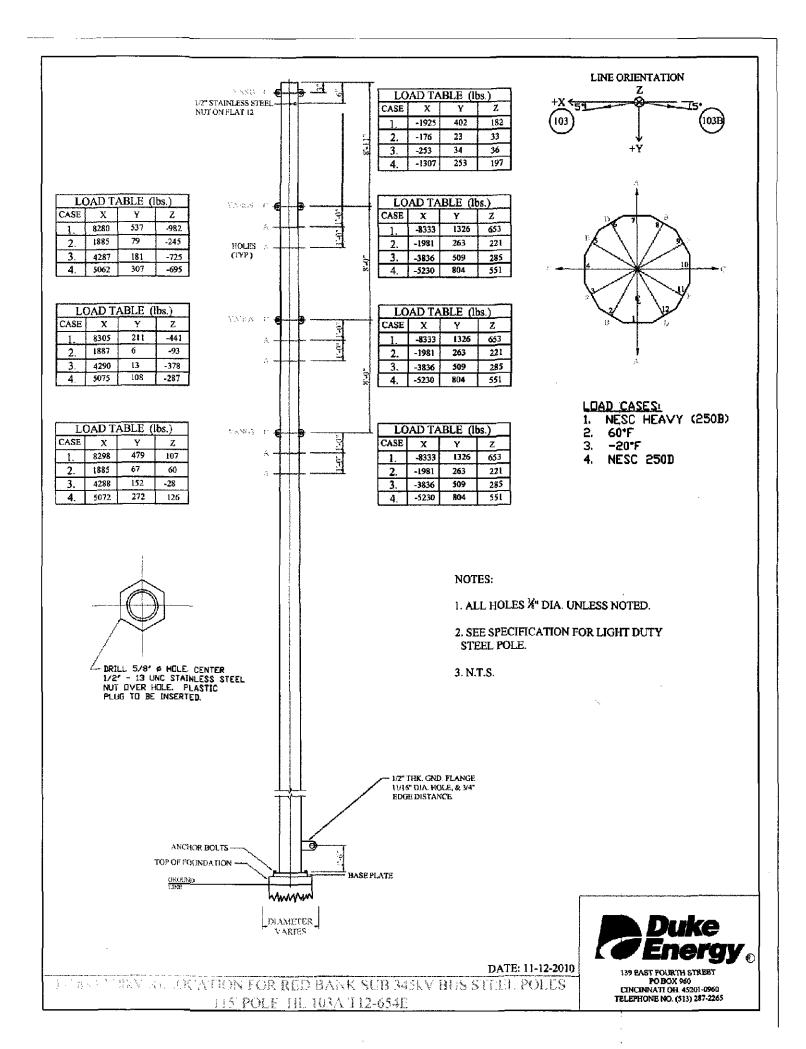
Sincerely,

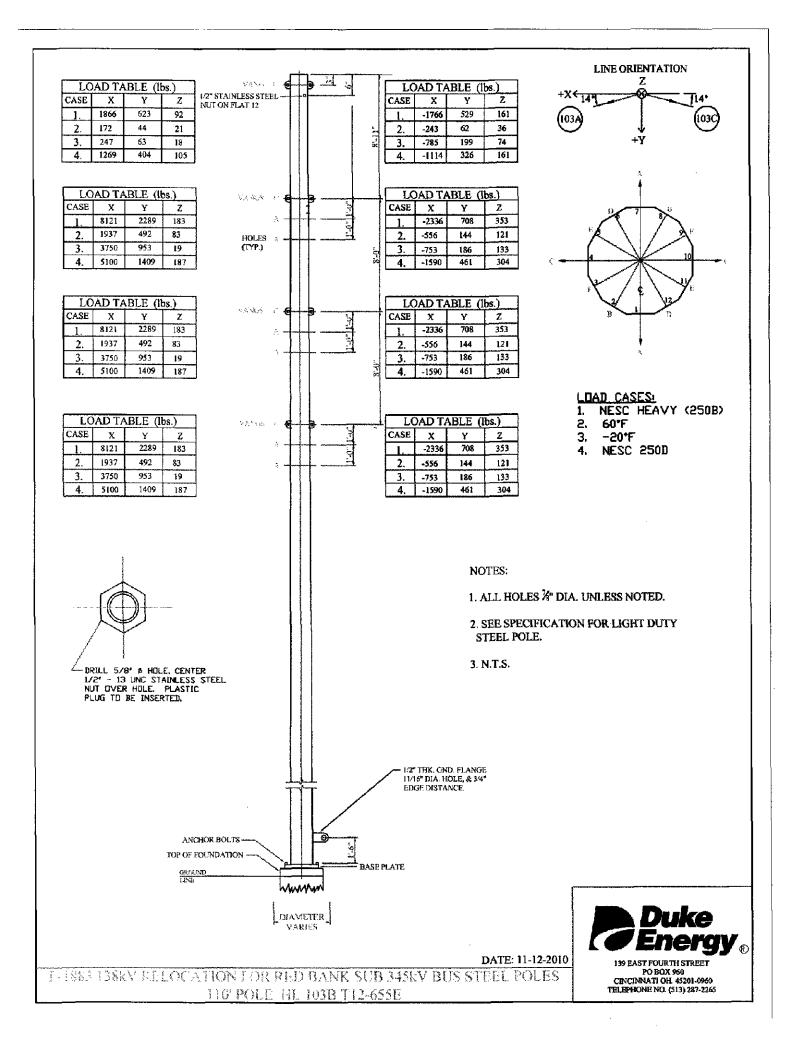
Glenn E. Hauser Duke Energy Engineering

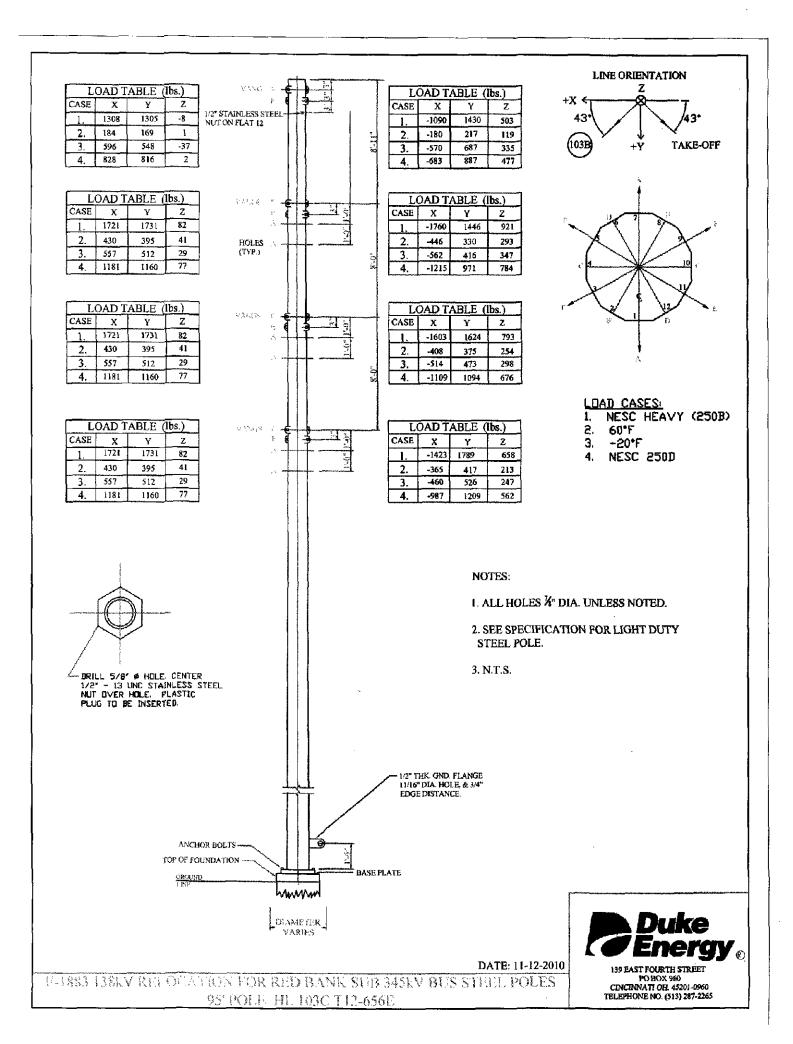
Enclosure

Cc Public Utilities Commission of Ohio

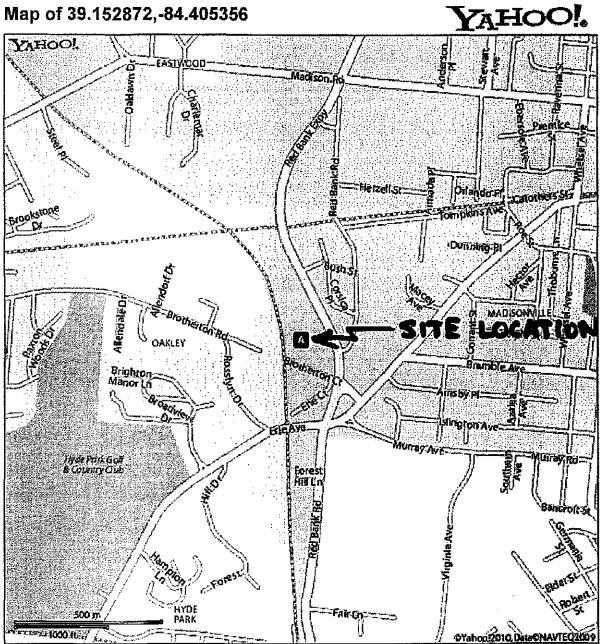








Map of 39.152872,-84.405356



When using any driving directions or map, it's a good idea to do a reality check and make sure the road still exists, watch out for construction, and follow all traffic safety precautions. This is only to be used as an aid in planning.