

RECEIVED-DOCKETING DIV
2007 FEB 12 PM 3:16

PUCO

07-146-EL-BNR

February 2, 2007

Ms. Reneé Jenkins, Secretary
Public Utilities Commission of Ohio
180 East Broad Street
Docketing Division 13th Floor
Columbus, Ohio 43215-3973


Re: Construction Notice:
Pierce Substation Expansion Project
PUCO Case No. 07- -EL-BNR
146

Dear Ms. Jenkins:

Enclosed for filing are one original and ten copies of a Construction Notice regarding a Duke Energy project.

If you have any questions regarding this submittal, please contact me at (513) 287-2379.

Sincerely,
Duke Energy


Stephen R. Lane
Environmental Scientist

Enclosures

Cc Mr. Jim O'Dell (OPSB) (1/1)

This is to certify that the images appearing are an accurate and complete reproduction of a case file document delivered in the regular course of business.
Technician AMN Date Processed 2/12/07

FILE

CONSTRUCTION NOTICE

OHIO ADMINISTRATIVE CODE 4906-11-02

Pierce Substation Expansion Project

PUCO Case No. 07- 146 -EL-BNR

DUKE ENERGY

February 2, 2007

1. Project Name: Pierce Substation Expansion Project.

2. Project Description: This project is in response to heavy loading on the existing 345/138kV Pierce transformer. The proposed project will add a new 345/138kV transformer to Pierce Substation and in doing so increase the limits of the substation fence by approximately 5.5 %. A Letter of Notification will be submitted in mid-2007 for a related project which requires approximately 1,300 feet of 138 kV transmission line from the 138kV side of the new transformer to the Beckjord Substation 138kV north bus. The total area of the proposed project is approximately 0.5 acre; the current coverage of Pierce Substation is approximately 9.1 acres. A USGS map of the project location is attached to this Construction Notice; smaller scale maps of the project site are also attached.

This project meets the requirements of a Construction Notice as it falls under “additions to existing electric power transmission substations where there is a twenty percent or less expansion of the fenced area.” (OAC 4906-1-01, Appendix A).

Access to the site will be from the existing Pierce Substation access roads. Vegetation clearing and grading will be completed on the site prior to the start of the project. Note that some surface disturbance already exists on the site not related to this project. Construction impacts will be approximately 0.7 acre (0.5 acre fenced area + 0.2 acre

additional grading disturbance) for the entire project site. As such, this project does not require Duke Energy to develop a formal Storm Water Pollution Prevention Plan or apply for project coverage under NPDES permit no. OHC000002. Even so, Duke Energy will follow Best Management Practices by employing erosion and sedimentation controls as appropriate.

3. Project Need: The existing 345/138 kV Pierce transformer loads heavily during normal operation and also under single contingency. Without the proposed upgrade the existing transformer may overload in the upcoming years. An additional 400 MVA 345/138kV transformer will relieve the loading problem. If the project does not proceed as proposed the line and/or equipment may be damaged and it may also disrupt the reliable operation of the power delivery system.

4. Schedule: Construction is planned to start April 5, 2007 with an expected end date of June 1, 2007.

5. Capital Cost: The capital cost of the project is approximately \$2,170,000.

6. Operating Features: The proposed project will add a new 400 MVA 345/138kV transformer to Pierce Substation to be located within 50 feet of the existing north-western fence line of Pierce Substation. In addition to the new transformer, the project will include: 345kV switch structure, 345kV bus supports, 345kV circuit breaker, 345kV H-type structure, 138kV coupling capacitor voltage transformer (CCVT), and a 138kV A-

type structure. A location and grading plan and substation structural drawings are attached. The steel lattice structure currently on the project site will be removed prior to construction. Construction and operation access to the project site will be from existing access roads and through the existing substation. Operation and maintenance procedures at Pierce Substation will be adapted to meet the needs of the new equipment.

7. Map and Directions: A USGS map of the project location is attached to this Construction Notice; smaller scale maps of the project site are also attached. One way to reach the project location from Columbus is to take I-71 south to I-275 east (exit 17A). Travel east and south around I-275 to exit #71, then head east on U.S. Route 52 (Kellogg Road) towards New Richmond. Drive approximately 8 miles to Beckjord Station, at Beckjord Station go left (north) onto Beckjord Road, then take an immediate right onto an unnamed dirt and gravel road that leads up to the southwest corner of Pierce Substation. A short walk north up the hillside will lead you to the project site. Alternatively, continue following Beckjord Road for approximately 400 feet until reaching a gravel road that heads east back towards the north end of Pierce Substation. If the drive is closed, park at the end of the drive and follow the road on foot back to the project site.

8. Public Notifications: This proposed project takes place within Pierce Township, Clermont County, Ohio. Copies of letters transmitting the Construction Notice to the Pierce Township Trustees and Clermont County Board of Commissioners are attached.



DUKE ENERGY CORPORATION
139 East Fourth St.
PO Box 960
Cincinnati, OH 45201-0960

February 2, 2007

Natural Resources Management
Room 409A
139 East Fourth Street
Cincinnati, Ohio 45202

Mr. Gregory Conrad, Trustee,
Pierce Township Trustees,
950 Locust Corner Road,
Cincinnati, OH 45245

Dear Mr. Conrad:

RE: Pierce Substation Expansion Project

Please find enclosed a copy of a Construction Notice that Duke Energy sent to the Ohio Power Siting Board regarding the planned expansion of Pierce Substation on the north side of U.S. Route 52 opposite Beckjord Station. An additional transformer is required at Pierce Substation in response to heavy loading on existing equipment. The expansion is located entirely on property owned by Duke Energy which has already been zoned industrial by Pierce Township.

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(B), we are hereby providing you with a copy. Please feel free to call me at (513) 287-2379 if you have any questions about this project.

Sincerely,
Duke Energy

Stephen R. Lane
Environmental Scientist

Enclosure

Cc Mr. Bob Proud, Clermont County Board of Commissioners
Public Utilities Commission of Ohio



DUKE ENERGY CORPORATION
139 East Fourth St.
PO Box 960
Cincinnati, OH 45201-0960

February 2, 2007

Natural Resources Management
Room 409A
139 East Fourth Street
Cincinnati, Ohio 45202

Mr. Bob Proud, Commissioner
Clermont County Board of Commissioners
101 E. Main Street,
Batavia, Ohio 45103

Dear Mr. Proud:

RE: Pierce Substation Expansion Project

Please find enclosed a copy of a Construction Notice that Duke Energy sent to the Ohio Power Siting Board regarding the planned expansion of Pierce Substation on the north side of U.S. Route 52 opposite Beckjord Station. An additional transformer is required at Pierce Substation in response to heavy loading on existing equipment. The expansion is located entirely on property owned by Duke Energy which has already been zoned industrial by Pierce Township.

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(B), we are hereby providing you with a copy. Please feel free to call me at (513) 287-2379 if you have any questions about this project.

Sincerely,
Duke Energy

Stephen R. Lane
Environmental Scientist

Enclosure

Cc Mr. Gregory Conrad, Pierce Township Trustees
Public Utilities Commission of Ohio



LEGEND:

- Existing Site Limits
- Proposed Expansion

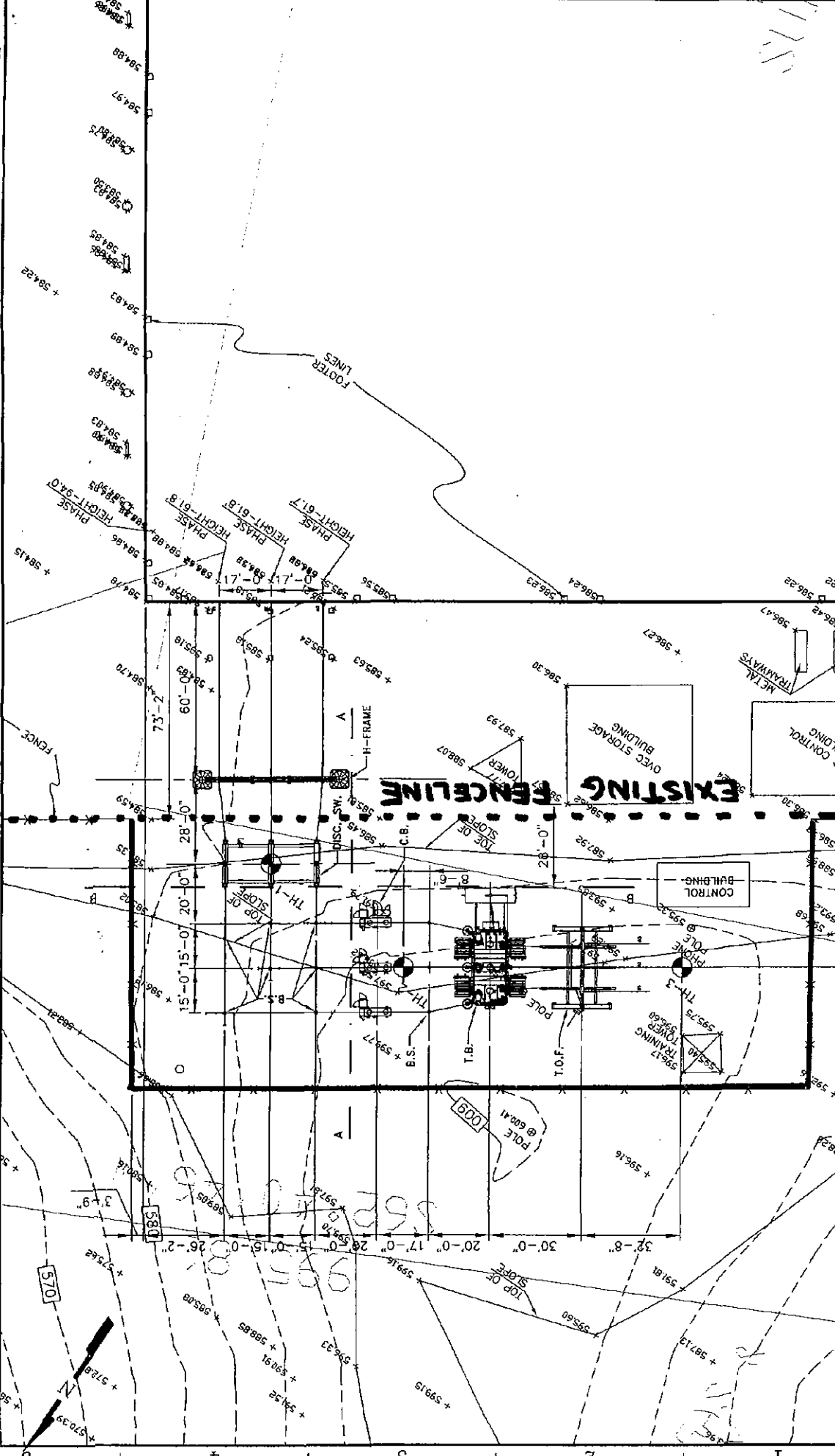
0 125 250 500 750 1,000 Feet



Pierce Substation Expansion

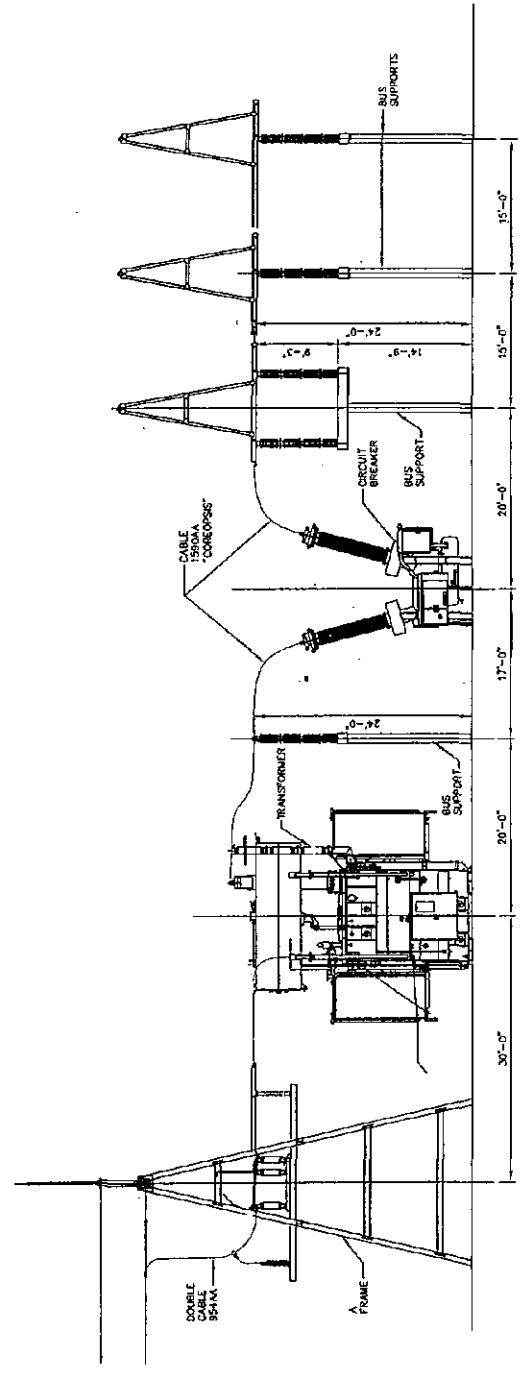
Site Vicinity Map

PROJECT NAME		LOCATION AND GRADING PLAN	
PIERCE SUBSTATION		PIERCE SUBSTATION	
DATE	01/17/07	SCALE	1" = 20'
BY	ABR	CHECKED	ABR
APPROVED	ABR	CONSTRUCTION	AS BUILT
Duke Energy		Duke Energy	
PROJECT NO. 09708/03027959		DATE 01/17/07	
SHEET NO. 28		SHEET NO. 28	



A B C D E F G H

01/17/07 10:38 am ABR1 2 0 1 3 4 5



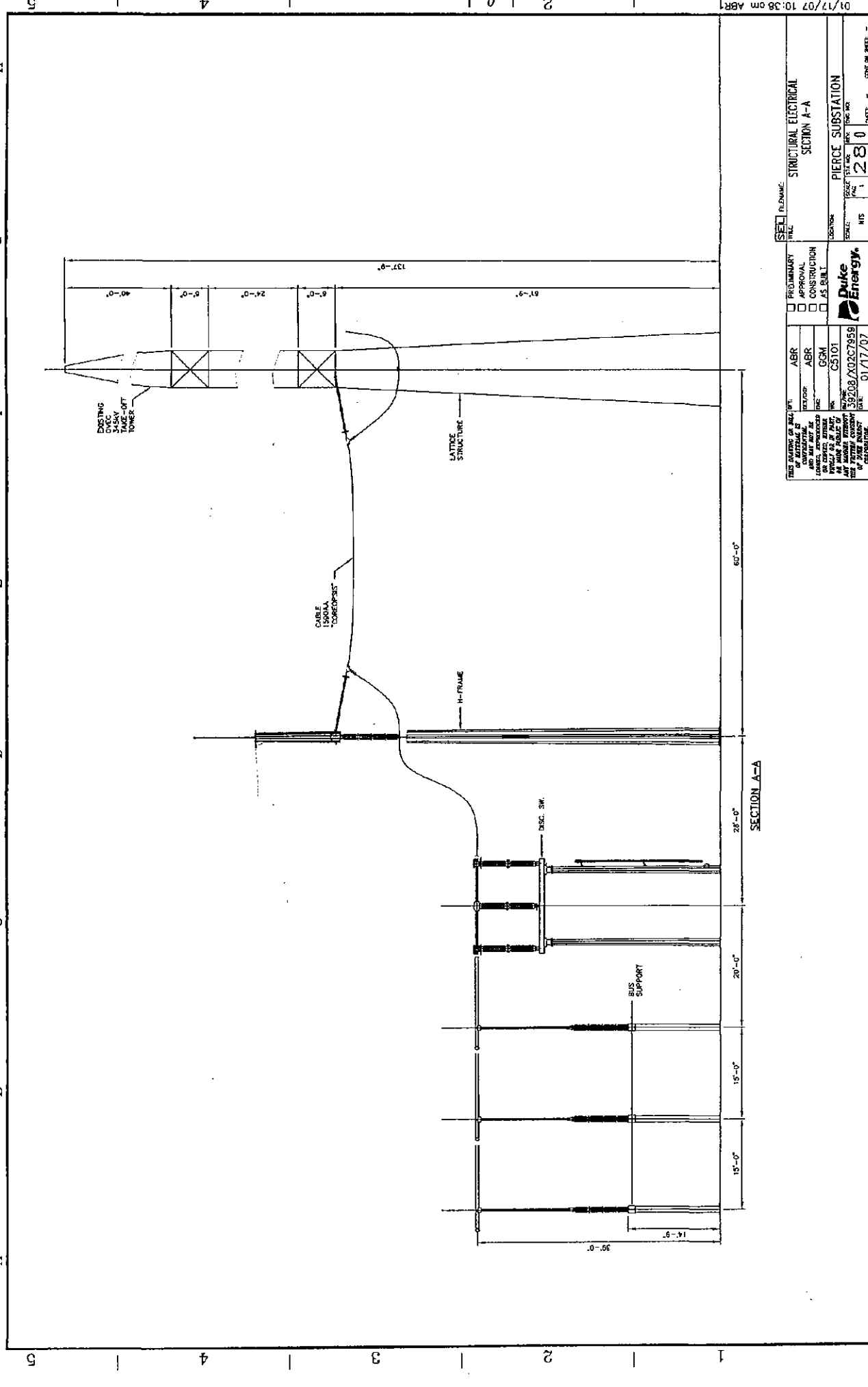
SECTION B-B

STRUCTURAL ELECTRICAL SECTION B-B	
PIERCE SUBSTATION LOCATION: NIS SCALE: 1" = 20'-0" DATE: 01/17/07	PRELIMINARY APPROVAL CONSTRUCTION AS BUILT
ABR: ABR G3M C5101 39208/X0207959 DATE: 01/17/07	THIS DRAWING OR PART OF IT IS NOT TO BE USED FOR CONSTRUCTION OF ANY STRUCTURE WITHOUT THE WRITTEN PERMISSION OF THE PROJECT ENGINEER OR HIS DESIGNATION



01/17/07 10:38 am ABR1 2 0 1 3 4 5

A B C D E F G H



SET: PL. NAME: STRUCTURAL ELECTRICAL TITLE: SECTION A-A	
PRELIMINARY <input type="checkbox"/> APPROVAL <input type="checkbox"/> CONSTRUCTION <input type="checkbox"/> AS BUILT	DUE DATE: 01/17/07 DATE: 01/17/07
PROJECT: PIERCE SUBSTATION SHEET: 280 TOTAL SHEETS: 280	
DUE DATE: 01/17/07 DATE: 01/17/07	

01/17/07 10:38 am ABR1