



Tennessee Valley Authority, 1101 Market Street, Chattanooga, Tennessee 37402-2801

December 11, 1997

Mr. Robert Baker
Tennessee Department of Environment
and Conservation
6th Floor, L&C Annex
401 Church Street
Nashville, Tennessee 37243

Dear Mr. Baker:

**TENNESSEE VALLEY AUTHORITY (TVA) - KINGSTON FOSSIL PLANT
(KIF) - REQUEST FOR AQUATIC RESOURCE ALTERATION PERMIT FOR
RAIL SPUR CONSTRUCTION**

Enclosed is a copy of the U.S. Army Corps of Engineers application packet for a new rail spur consisting of a bridge to be constructed across the Emory River near Mile 8.7 and related stream crossings near Harriman, Tennessee. This rail spur will be built to allow KIF to receive low-sulfur coal shipments from CSX Transportation to comply with Title IV of the Clean Air Act. Also, enclosed is a check for \$2500 to cover the application fee.

TVA prepared an Environmental Impact Statement (EIS) for determining the placement of the spur, along with the United States Corps of Engineers and the Coast Guard. The EIS was submitted to the Environmental Protection Agency (EPA) on January 1, 1997, for this project. The proposed project was found to have no significant impact on the environment or threatened and endangered species. The United States Fish and Wildlife Service concurred with this finding. A copy of the EIS is available upon request.

Wetlands were found to be predominately located below the 745-foot elevation. Wetlands impacts have been avoided to the extent practicable by keeping all construction above the 750-foot elevation except at water crossings. Impacts to these linear wetlands at the crossings were determined to be insignificant in the

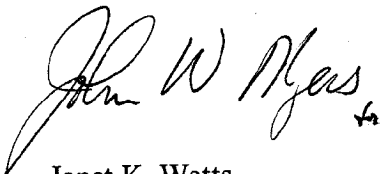
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EIS and not needing mitigation. An erosion and sediment control plan also will be developed to minimize impacts due to construction of the spur along the river and at these crossings.

The overall project has been broken into four components to facilitate discussion in the permit application and are identified as A, B, C, and D. Section A relates to the main bridge crossing the Emory River. The other components B, C, and D consist of stream crossings using either a bridge or a culvert and associated fill for the rail bed.

TVA is planning to begin construction on this rail spur the first part of April 1998. Construction can be staged to allow full consideration of the permit application; however, TVA as usual appreciates expeditious handling of the permit.

If you have any questions or need to schedule a site visit, please contact Lindy Printz at (423) 751-3361 in Chattanooga.



Janet K. Watts
Manager of Environmental Affairs
5D Lookout Place

Enclosures

66-156
531

Check No. 1265425



Date
11/19/97

Tennessee Valley Authority, Knoxville, Tennessee

\$2,500 AND 00/100

Pay to
the order of

Amount

TENNESSEE DEPARTMENT OF
ENVIRONMENT AND CONSERVATION
KNOXVILLE TN 37901

\$*****2500*00

Void After 90 Days

TENNESSEE VALLEY AUTHORITY

John M. Ashburn
DISBURSING OFFICER

First Union National Bank

⑈ 1265425⑈ ⑆053101561⑆ 2998532154⑈

INQUIRY SHOULD INCLUDE COPY OF THIS FORM

TVA 8262 (FD-5-82)

DATE 11/19/97

REMITTANCE INFORMATION FROM
TENNESSEE VALLEY AUTHORITY TO:

TVA CONTRACT NO. 0000000000

VENDOR: TENNESSEE DEPARTMENT OF
ENVIRONMENT AND CONSERVATION
KNOXVILLE TN 37901

TVA D.O. NO.
TVA V.O. NO. 0001265425

AMOUNT REMITTED 2500.00

INVOICE					
NUMBER	DATE	AMOUNT	DISCOUNT	REFERENCE	ADJUSTMENT
PO NUMBER: PD MSC ZCBX111697 ENVIRONMENTAL FEES -		REL: 2500.00 KINGSTON RAIL	0.00	* SUPR	0.00
*NOTE - THIS INVOICE HAS AN EXTERNAL ATTACHMENT *****					

* Discount
Taken

Public reporting burden for this collection of information is estimated to average 5 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Service Directorate of Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302; and to the Office of Management and Budget, Paperwork Reduction Project (0710-0003), Washington, DC 20503. Please DO NOT RETURN your form to either of those addresses. Completed applications must be submitted to the District Engineer having jurisdiction over the location of the proposed activity.

PRIVACY ACT STATEMENT

Authority: 33 USC 401, Section 10; 1413, Section 404. Principal Purpose: These laws require permits authorizing activities in, or affecting, navigable waters of the United States, the discharge of dredged or fill material into waters of the United States, and the transportation of dredged material for the purpose of dumping it into ocean waters. Routine Uses: Information provided on this form will be used in evaluating the application for a permit. Disclosure: Disclosure of requested information is voluntary. If information is not provided, however, the permit application cannot be processed nor can a permit be issued.

One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (see sample drawings and instructions) and be submitted to the District Engineer having jurisdiction over the location of the proposed activity. An application that is not completed in full will be returned.

(ITEMS 1 THRU 4 TO BE FILLED BY THE CORPS)

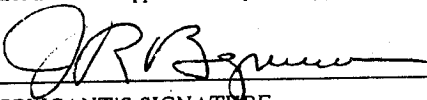
1. APPLICATION NO.	2. FIELD OFFICE CODE	3. DATE RECEIVED	4. DATE APPLICATION COMPLETED

(ITEMS BELOW TO BE FILLED BY APPLICANT)

5. APPLICANT'S NAME Joseph R. Bynum, Vice President, Fossil Operations	8. AUTHORIZED AGENT'S NAME AND TITLE (an agent is not required) Janet K. Watts, Manager, Environmental Affairs
6. APPLICANT'S ADDRESS 1101 Market Street, LP 3K, Chattanooga, TN 37402	9. AGENT'S ADDRESS 1101 Market St., LP 5D, Chattanooga, TN 37402
7. APPLICANT'S PHONE NOS. W/AREA CODE a. Residence b. Business (423) 751-2601	10. AGENT'S PHONE NOS. W/AREA CODE a. Residence b. Business (423) 751-7292

STATEMENT OF AUTHORIZATION

11. I hereby authorize, Janet K. Watts to act in my behalf as my agent in the processing of this application and to furnish, upon request, supplemental information in support of this permit application.


APPLICANT'S SIGNATURE

11/24/97
DATE

NAME, LOCATION AND DESCRIPTION OF PROJECT OR ACTIVITY

12. PROJECT NAME OR TITLE (see instructions) Kingston fuel delivery rail spur project	14. PROJECT STREET ADDRESS (if applicable) N/A
13. NAME OF WATERBODY, IF KNOWN (if applicable) Emory River, Bullard Branch, Quarry Branch, Swan Pond	
15. LOCATION OF PROJECT Roane County TN COUNTY STATE	

16. OTHER LOCATION DESCRIPTIONS, IF KNOWN, (see instructions)

17. DIRECTIONS TO THE SITE

Kingston Fossil Plant is located on Swan Pond Road in Kingston, Roane County, Tennessee

18. Nature of Activity (Description of project, include all features)

Activities associated with construction of a rail spur to the Kingston Fossil Plant including crossing the Emory River, Bullard Branch, Quarry Branch and Swan Pond. Additional fill will be placed along the existing rail bed along portions of the Emory River to build a new rail bed.

19. Project Purpose (Describe the reason or purpose of the project, see instructions)

TVA is proposing to build a rail spur to its Kingston Steam plant in order to lower fuel (coal) costs and to provide a direct connection to CSX coals. CSX coal is low sulfur and a need to switch to low sulfur coal is anticipated to occur by the year 2000 in order to reduce sulfur dioxide emissions and to comply with Phase II under Title IV of the Clean Air Act. The new rail spur will allow TVA to receive "unit" trains which will avoid switching fees and dividing into smaller trains.

USE BLOCKS 20-22 IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED

20. Reason(s) for Discharge

Fill will be discharged to construct bridge supports, culverts and to construct a rail bed along the proposed rail route.

21. Type(s) of Material Being Discharged and the Amount of Each Type in Cubic Yards

See attached Fill Quantities Table.

22. Surface Area in Acres of Wetlands or Other Waters Filled (see instructions)

Impacts to wetlands were jointly determined by the U. S. Corps of Engineers and TVA in the Environmental Impact Statement to be only to linear wetlands at river/stream crossings. However, TVA will develop a wetlands mitigation plan in conjunction with the Corps of Engineers if necessary.

23. Is Any Portion of the Work Already Complete? Yes _____ No X IF YES, DESCRIBE THE COMPLETED WORK

24. Addresses of Adjoining Property Owners, Lessees, Etc., Whose Property Adjoins the Waterbody (If more than can be entered here, please attach a supplemental list).

Please see attached list.

25. List of Other Certifications or Approvals/Denials Received from other Federal, State or Local Agencies for Work Described in This Application.

AGENCY	TYPE APPROVAL*	IDENTIFICATION NUMBER	DATE APPLIED	DATE APPROVED	DATE DENIED
Tennessee Dept. of Environment & Conservation		Application for Aquatic Resource Alteration Permit is being made simultaneously.			
US Coast Guard	Bridge permit	Emory River Bridge	10/16/97		
Federal Emergency Management Agency	Letter of map revision			Presented and approved by the City and County Planning Commissions. City Council scheduled to vote on 11/25 and County Commission scheduled to vote on 12/8.	

*Would include but is not restricted to zoning, building and flood plain permits

26. Application is hereby made for a permit or permits to authorize the work described in this application. I certify that the information in this application is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.

SIGNATURE OF APPLICANT

DATE

SIGNATURE OF AGENT

DATE

James K. Watts

11/25/97

The application must be signed by the person who desires to undertake the proposed activity (applicant) or it may be signed by a duly authorized agent if the statement in block 11 has been filled out and signed.

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.

ATTACHMENTS

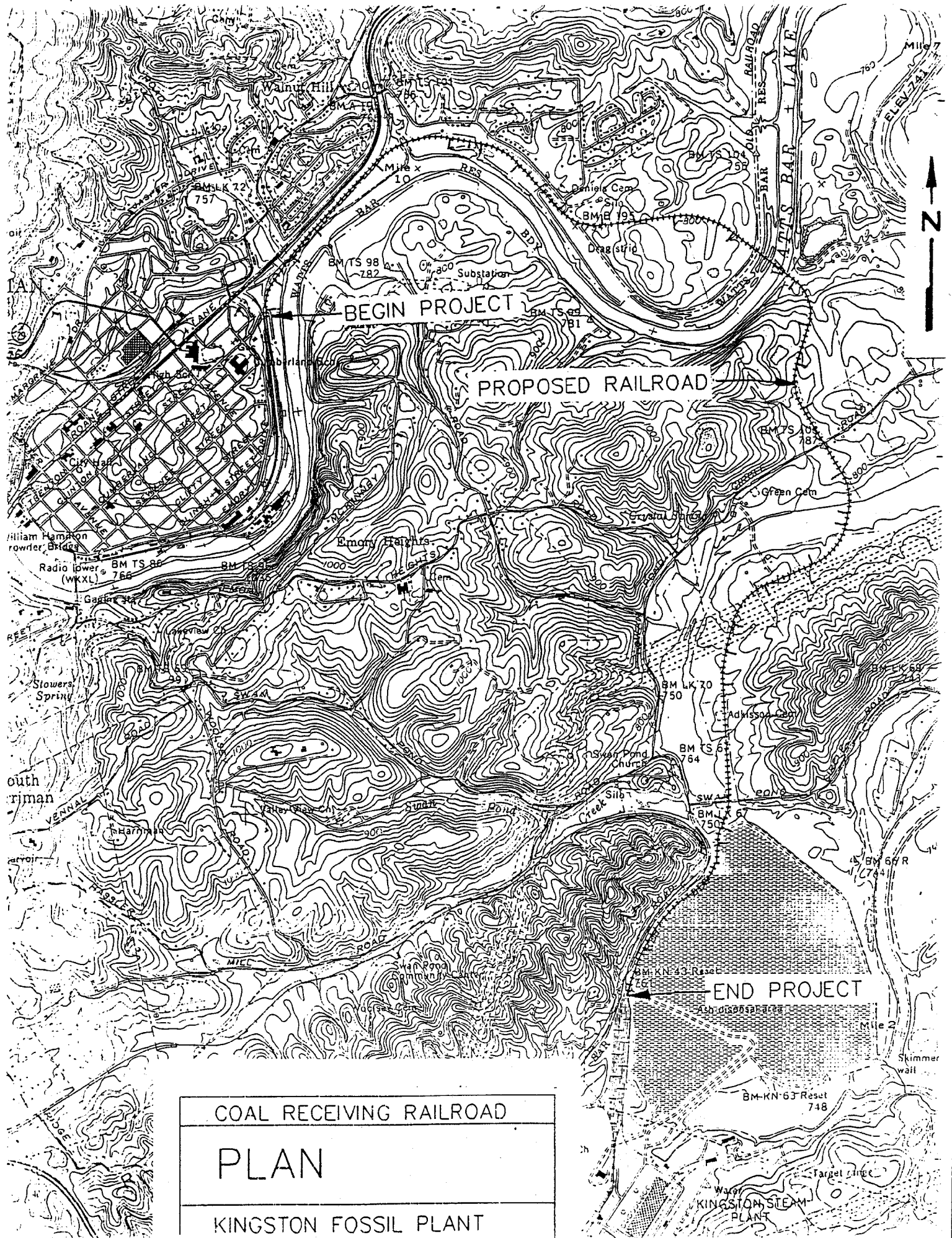
Attachment 21.

Fill to be placed below normal summer pool elevation of 741.0 is shown below, organized by location as shown on attachments. Additional fill will be placed up to the 100 year flood elevation of 758.9 in some locations.

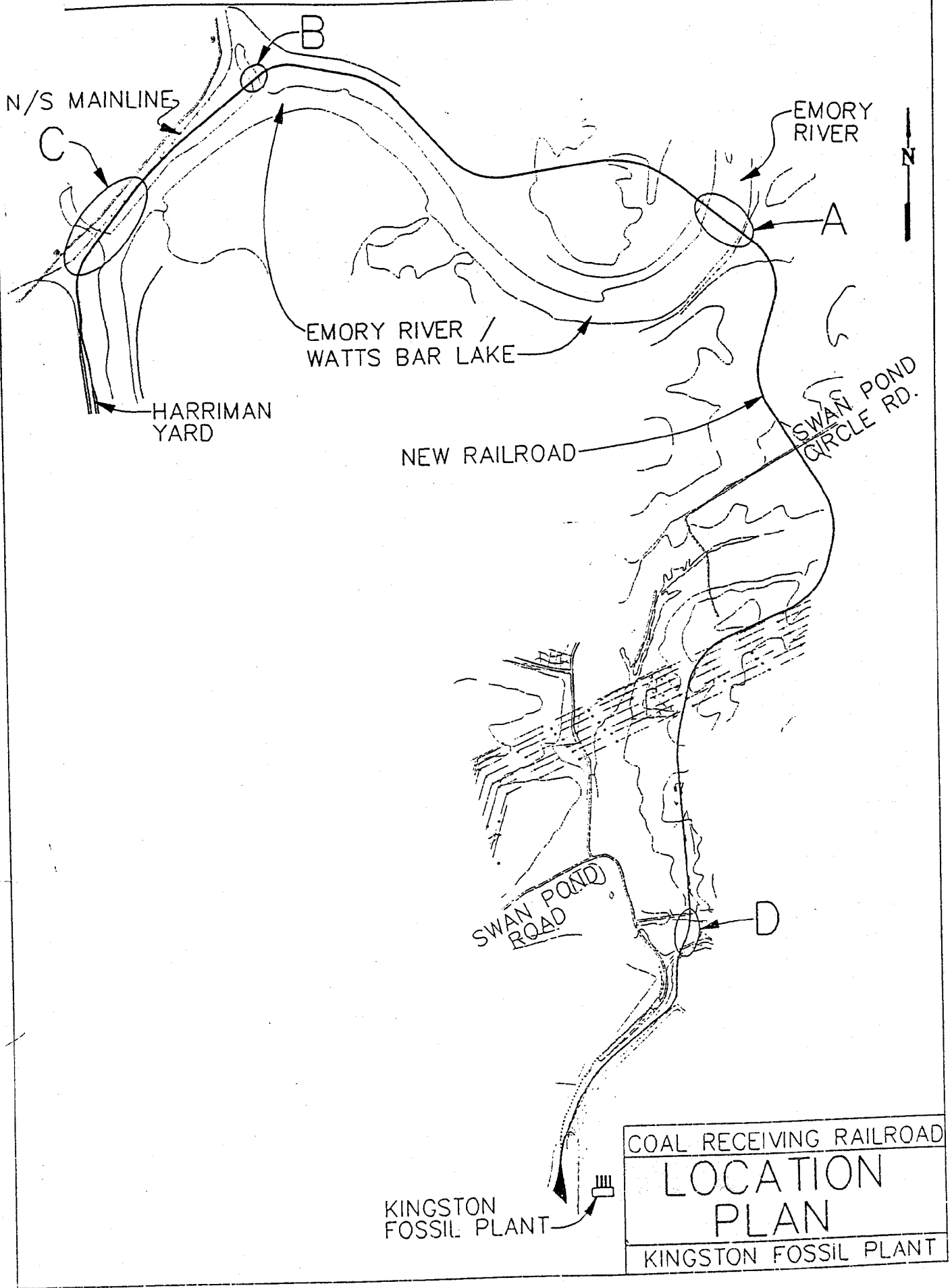
Material	Bridge A	Bridge B	Bridge C	Bridge D
Earth	0	0	70	5500
Filter	0	0	0	400
Riprap	0	0	20	1500
Concrete	1100	150	250	300
Rock Fill	0	0	25,000	0

Attachment 24 - Addresses of Adjoining Property Owners, Lessees, Etc. Whose Property adjoins the waterbody.

Bridge A	Bridge B	Bridge C	Bridge D
Robert G. Farrell Tennessee Valley Authority Land Management Office 2009 Grubb Road Lenoir City, TN 37771	Robert G. Farrell (same address)	Robert G. Farrell. (same address)	Robert G. Farrell (same address)
Pearl B. Blaylock Route 4, Box 315 Harriman, TN 37748	---	Norfolk Southern Corporation 99 Spring Street, SW Atlanta, GA 30303	---
A. B. Long Quarries, Inc. P.O. Box 11905 Knoxville, TN 37939	---	---	---
City of Harriman P.O. Box 433 Harriman, TN 37748 Attn: Mayor Harold Wester	---	---	---



COAL RECEIVING RAILROAD
PLAN
KINGSTON FOSSIL PLANT



CITY OF HARRIMAN

CITY OF HARRIMAN

LIMITS OF FILL

EMORY RIVER

FLOW

EDGE OF WATER

EDGE OF WATER

LIMITS OF FILL

ROCK QUARRY A.B. LONG

PEARL B. BLAYLOCK



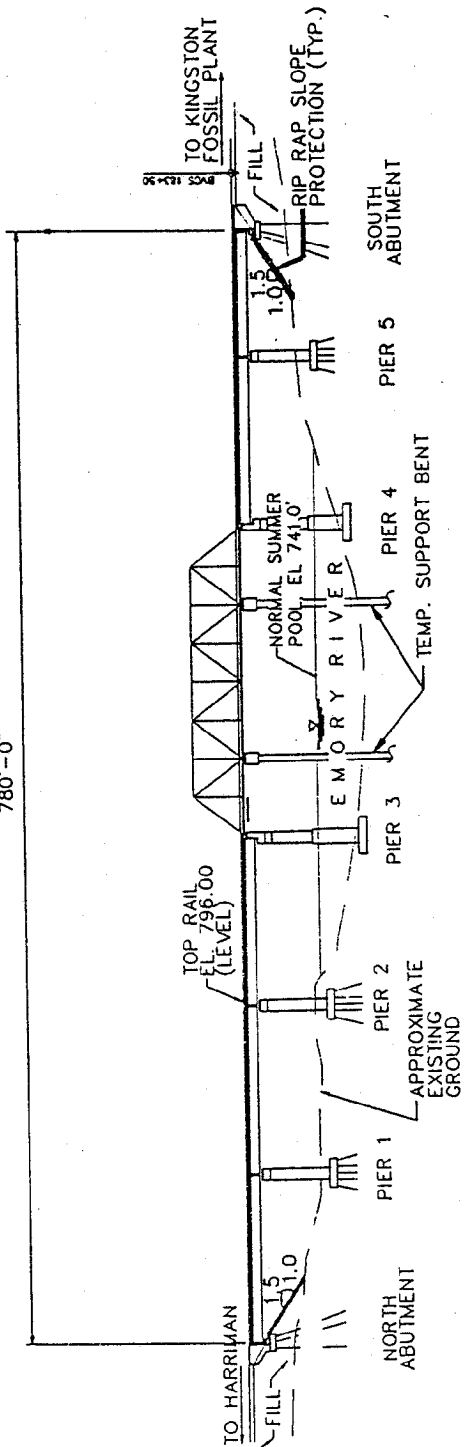
PLAN

COAL RECEIVING RAILROAD

PLAN
BRIDGE "A"

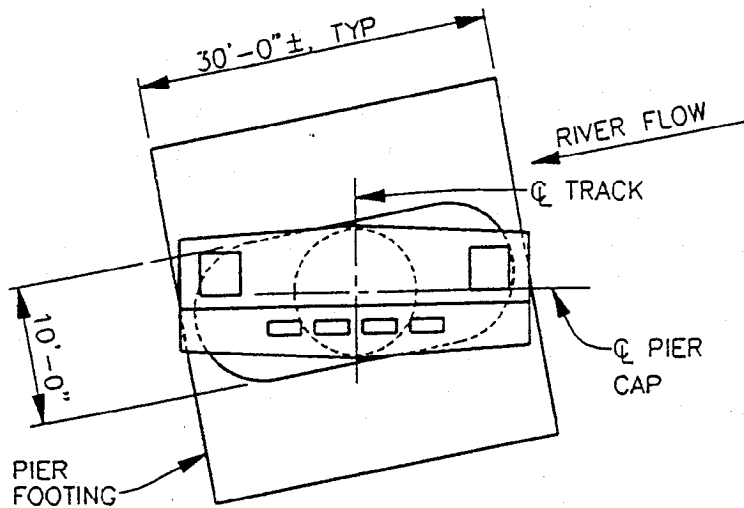
KINGSTON FOSSIL PLANT

780'-0"

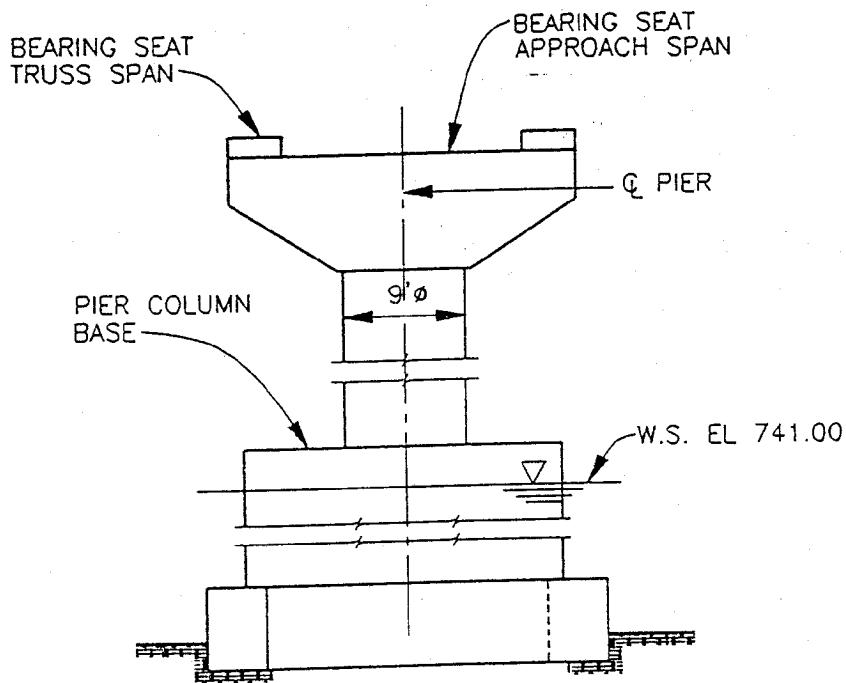


PROFILE EMORY RIVER BRIDGE

COAL RECEIVING RAILROAD
PROFILE BRIDGE "A"
KINGSTON FOSSIL PLANT



PLAN - CENTER SPAN PIERS

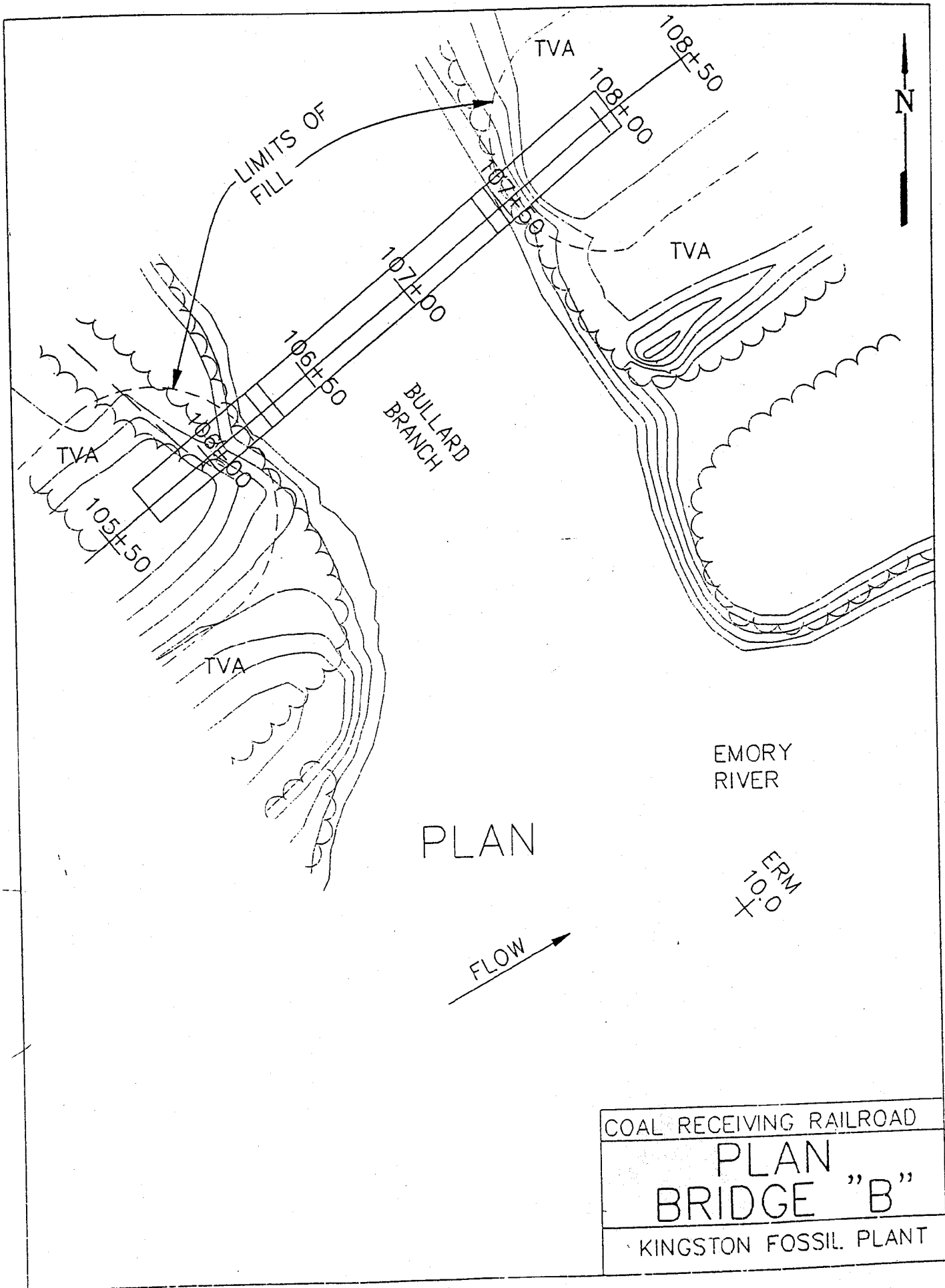


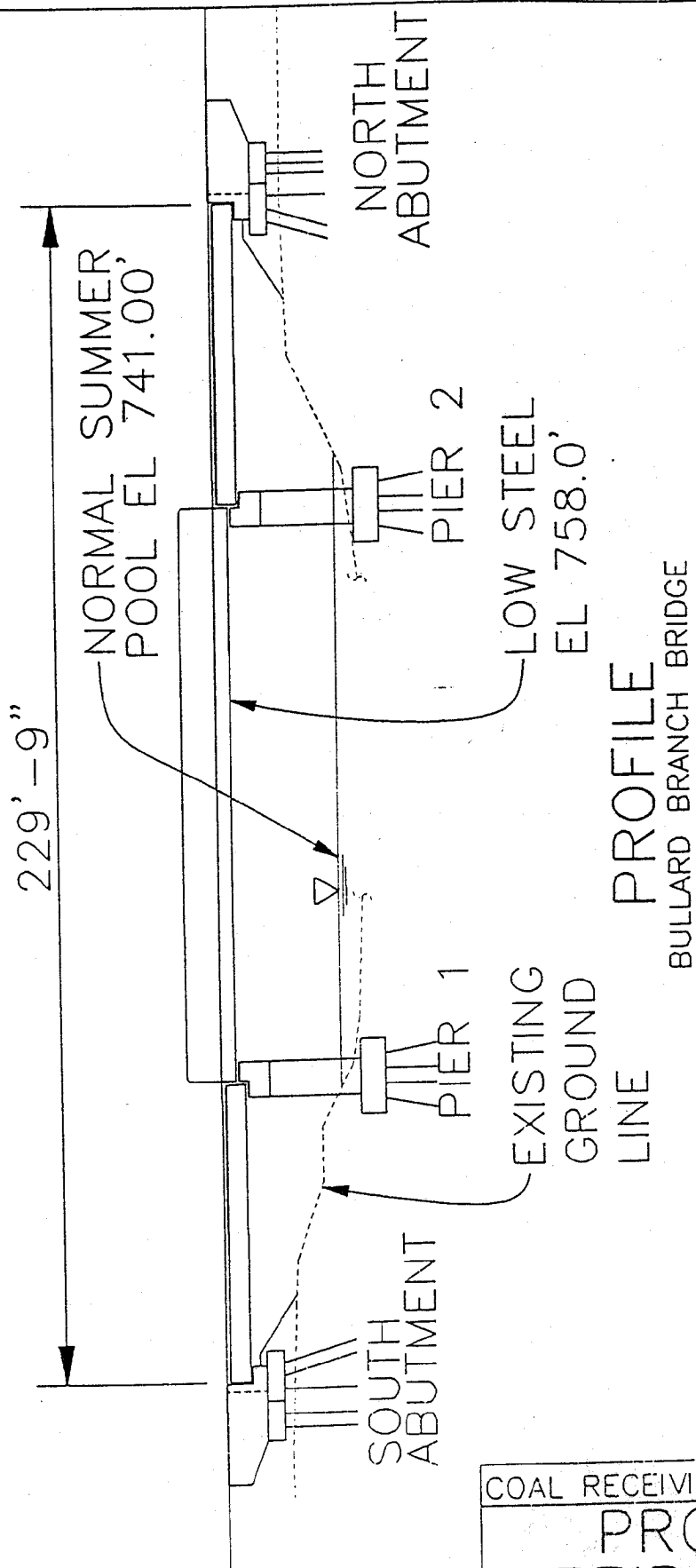
ELEVATION - CENTER SPAN PIERS

COAL RECEIVING RAILROAD
DETAILS
BRIDGE "A"
KINGSTON FOSSIL PLANT

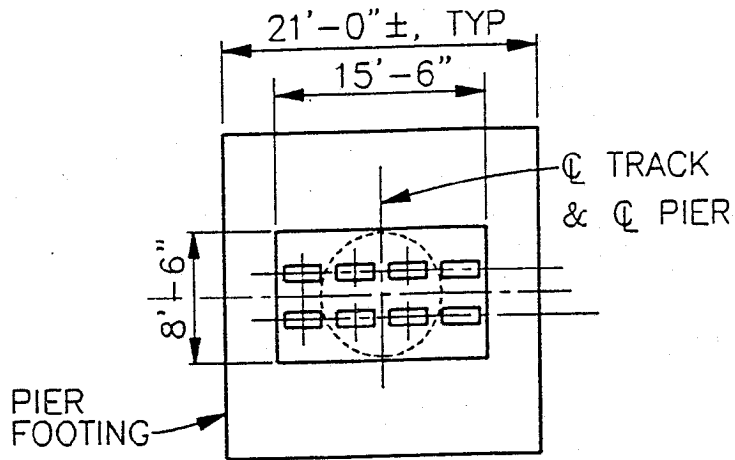
EARTHFILL	0
FILTER	0
RIPRAP	0
CONCRETE	1,100 CY

COAL RECEIVING RAILROAD
FILL QTY'S BRIDGE "A"
KINGSTON FOSSIL PLANT

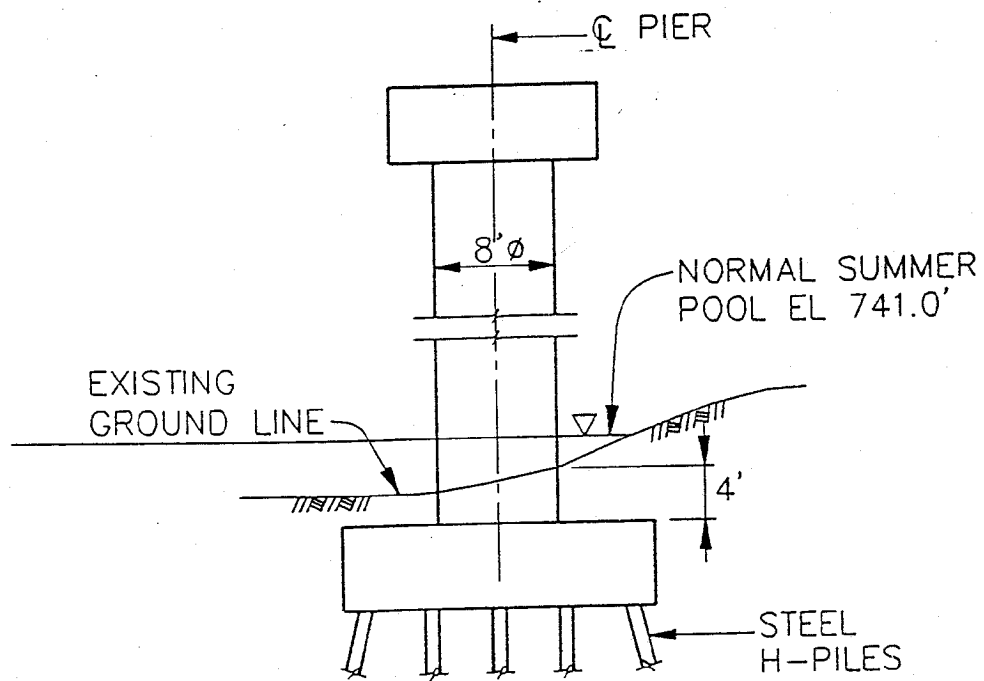




COAL RECEIVING RAILROAD
PROFILE BRIDGE "B"
KINGSTON FOSSIL PLANT



PLAN



ELEVATION

COAL RECEIVING RAILROAD
DETAILS
BRIDGE "B"
KINGSTON FOSSIL PLANT

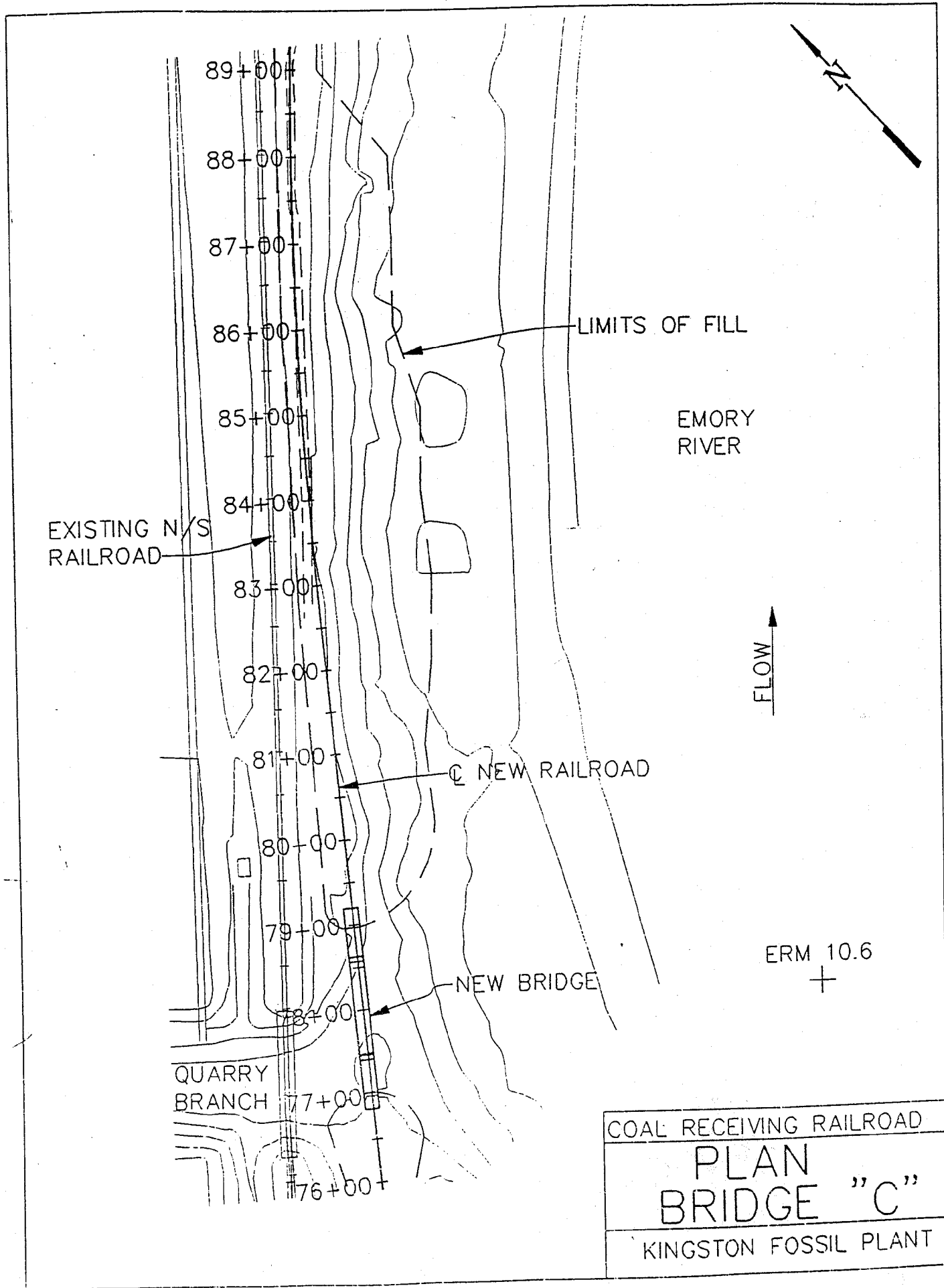
FILL QUANTITIES BELOW NORMAL POOL
ELEVATION 741.0'

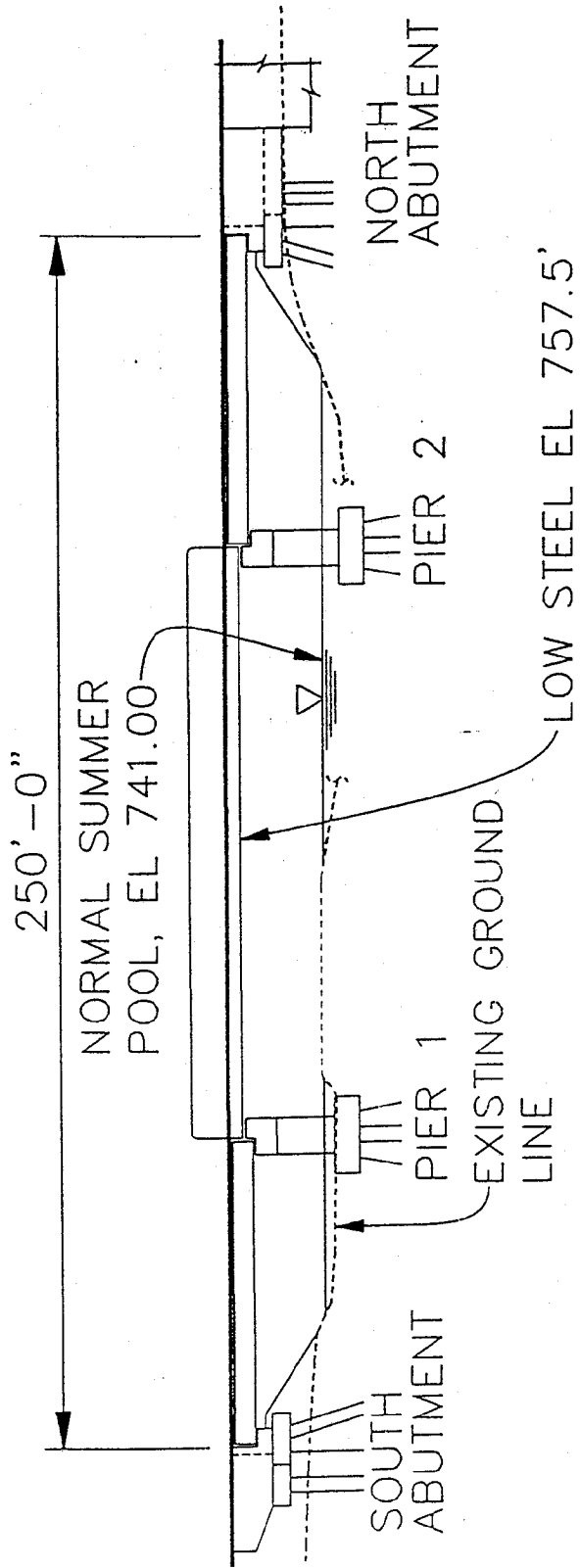
EARTHFILL	0
FILTER	0
RIPRAP	0
CONCRETE	150 CY

COAL RECEIVING RAILROAD

FILL QTY'S
BRIDGE "B"

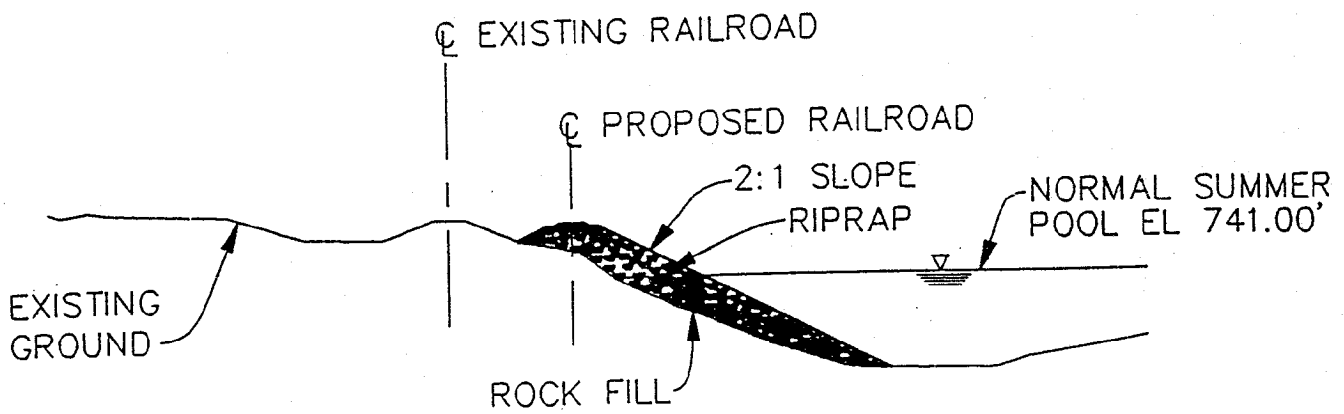
KINGSTON FOSSIL PLANT





PROFILE
 QUARRY CREEK BRIDGE

COAL RECEIVING RAILROAD
PROFILE BRIDGE "C"
KINGSTON FOSSIL PLANT

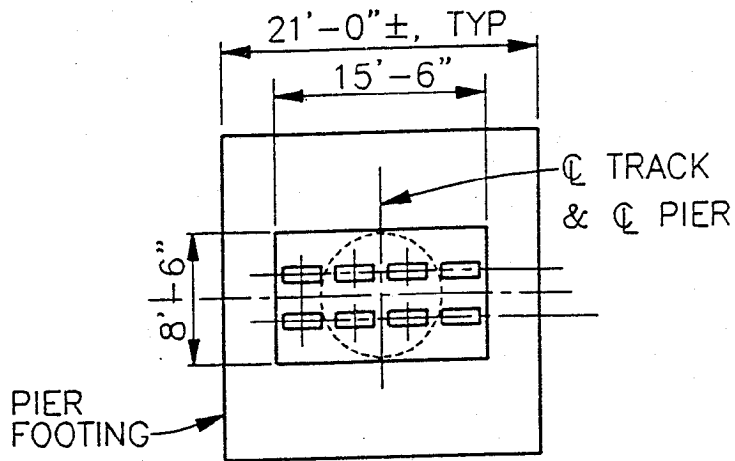


TYPICAL FILL SECTION
 STA 79+00 TO STA 89+00

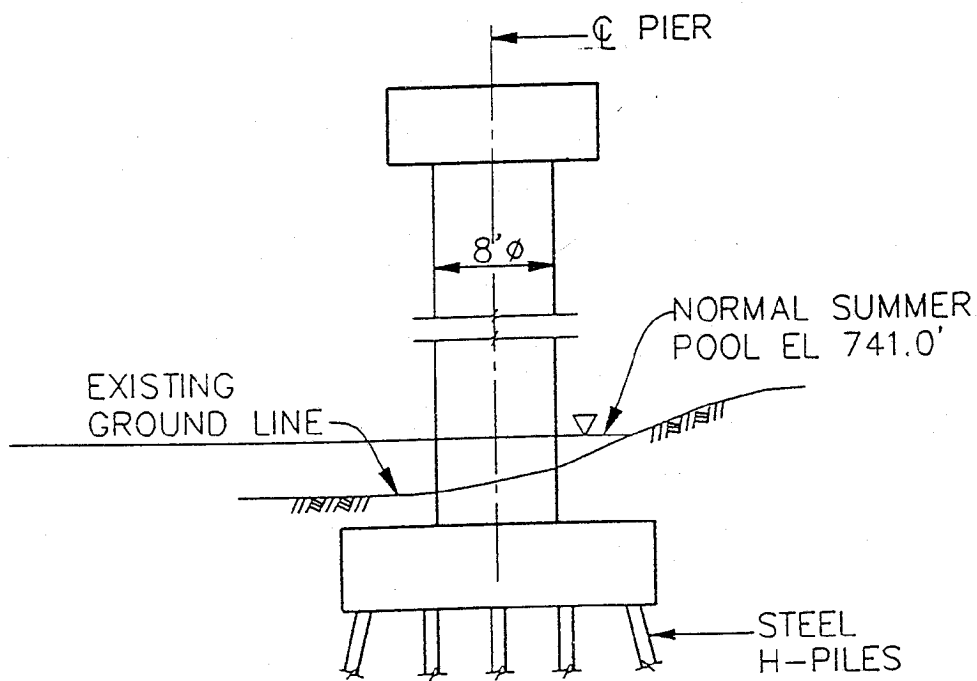
FILL QUANTITIES BELOW NORMAL POOL
 ELEVATION 741.0'

ROCK FILL	25,000 CY
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COAL RECEIVING RAILROAD
FILL NEAR BRIDGE "C"
KINGSTON FOSSIL PLANT



PLAN



ELEVATION

COAL RECEIVING RAILROAD
DETAILS BRIDGE "C"
KINGSTON FOSSIL PLANT

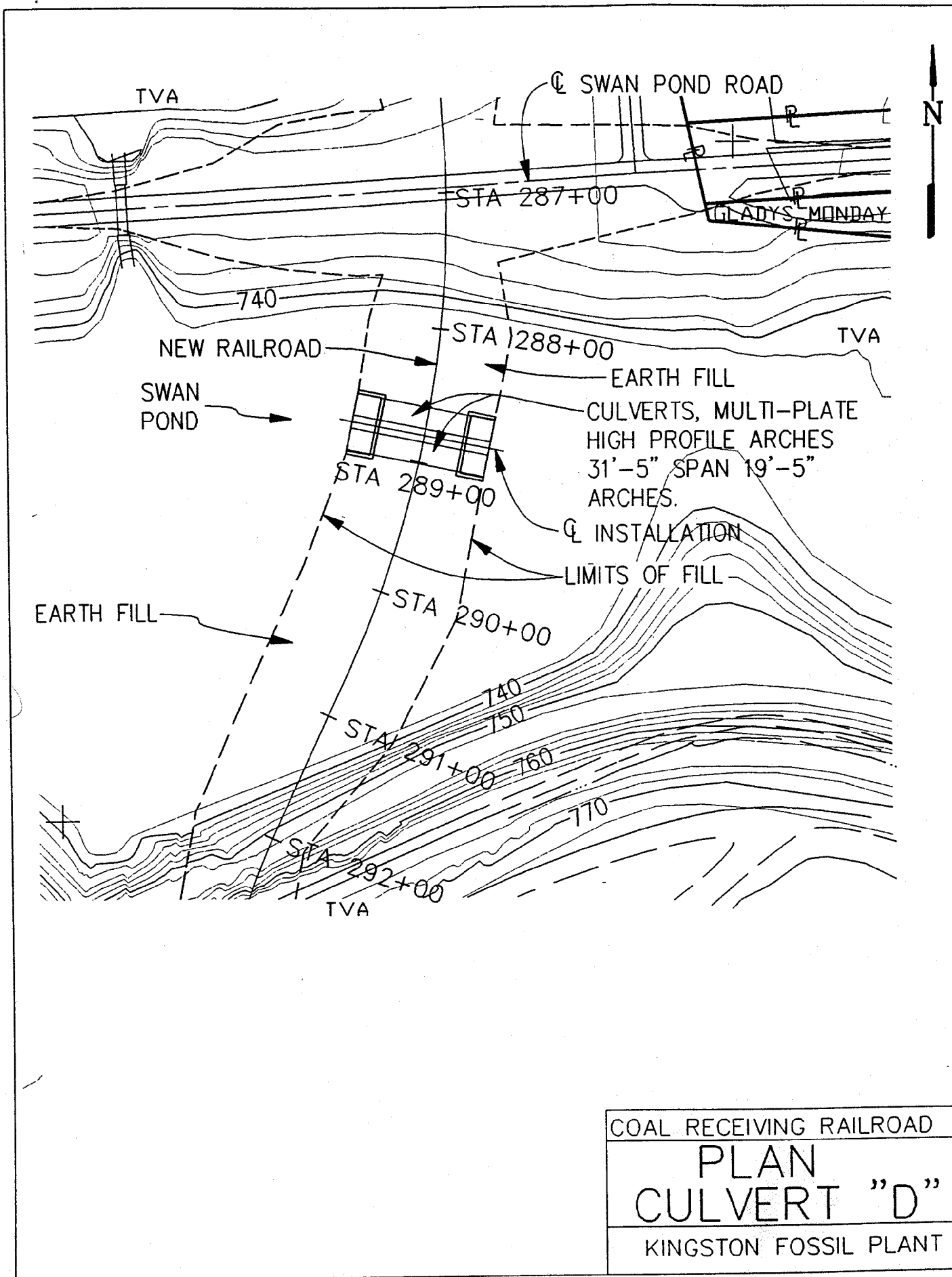
FILL QUANTITIES BELOW NORMAL POOL
ELEVATION 741.0'

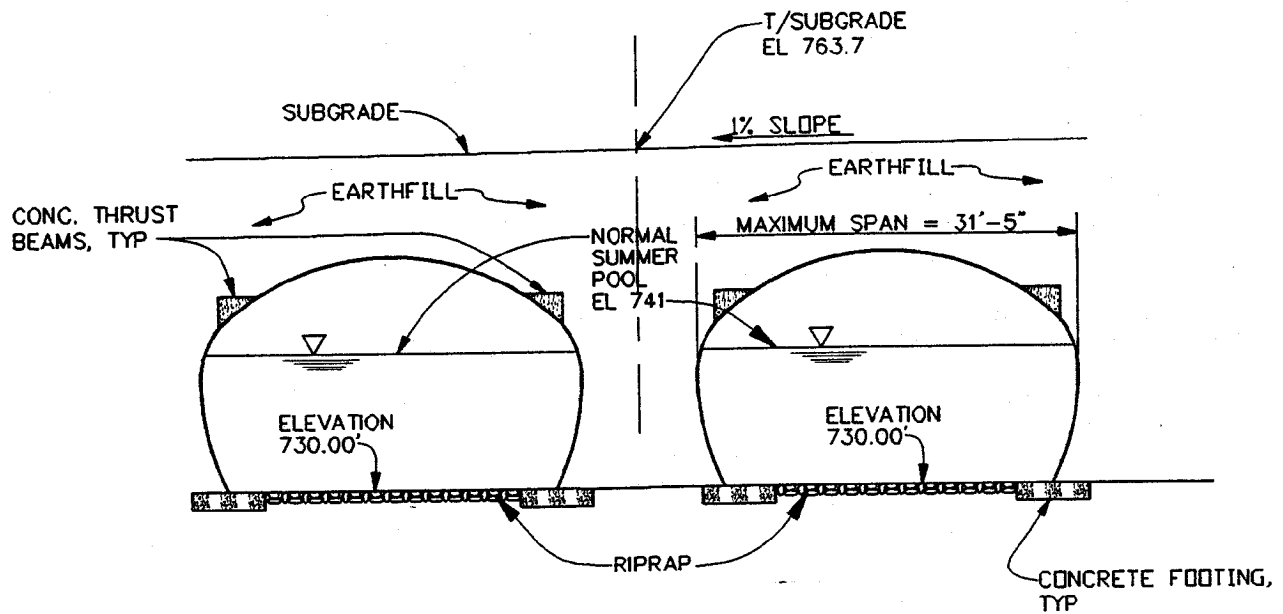
EARTHFILL	70 CY
FILTER	0
RIPRAP	20 CY
CONCRETE	250 CY

COAL RECEIVING RAILROAD

TABLE
BRIDGE "C"

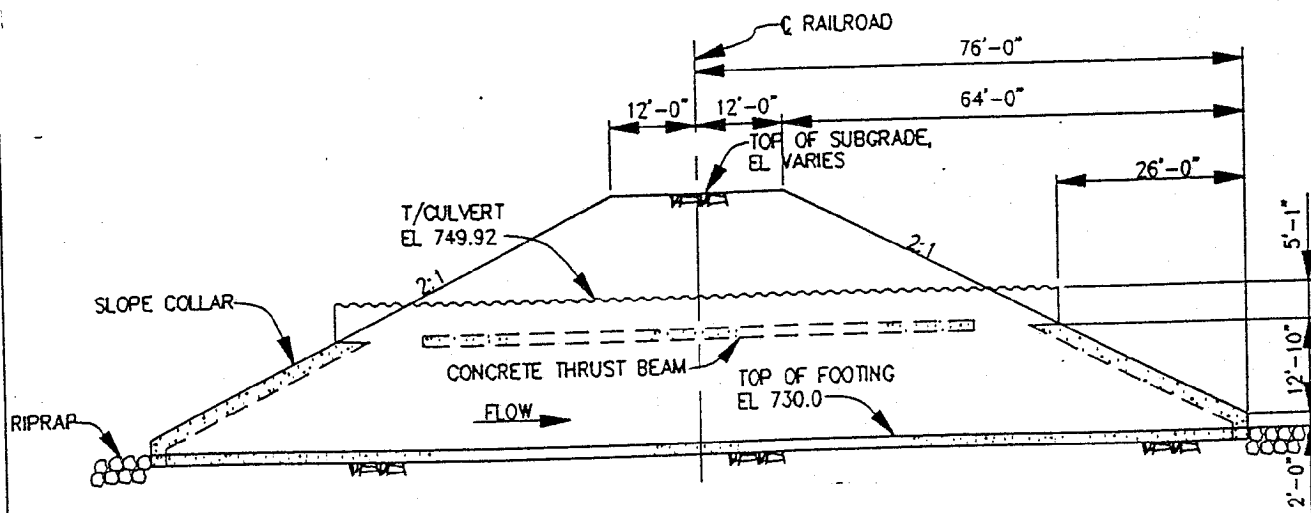
KINGSTON FOSSIL PLANT





PROFILE - CULVERTS
HIGH PROFILE ARCH CULVERT

COAL RECEIVING RAILROAD
PROFILE CULVERT "D"
KINGSTON FOSSIL PLANT



TYPICAL SECTION
 SYMMETRICAL ABOUT CENTERLINE

COAL RECEIVING RAILROAD
TYP. SECTION
CULVERT "D"
KINGSTON FOSSIL PLANT

FILL QUANTITIES BELOW NORMAL POOL
ELEVATION 741.0'

EARTHFILL	5500 CY
FILTER BLANKET	400 CY
RIPRAP	1500 CY
CONCRETE	300 CY
STEEL CULVERT (AREA x 0.249" THICK)	5.0 CY

COAL RECEIVING RAILROAD

TABLE
CULVERT "D"

KINGSTON FOSSIL PLANT