From: "^PNNL NRC Vogtle" <nrc.vogtle@pnl.gov>
To: <VOGTLE_EIS@nrc.gov>
Date: 5/31/2007 3:09:44 PM
Subject: FW: Vogtle Geology References

-----Original Message-----
From: Fulton, Dale Lane [mailto:DLFULTON@southernco.com]
Sent: Thursday, March 29, 2007 11:06 AM
To: Cook, Christopher B
Cc: Moorer, Tom C.; Davis, James T.; cja2@nrc.gov
Subject: Vogtle Geology References

Chris,

Per your recent conversation with Tom Moorer, here are some additional documents regarding the geology at Vogtle.

<<AX6DD352.pdf>> <<AX6DD377.pdf>> <<AX6DD378.pdf>>
<<AX6DD351.pdf>>

Additional PDFs to follow.

Thank You,
Dale L. Fulton
Southern Nuclear Operating Company
(205) 992-7536

Hearing Identifier: Vogtle_Public
Email Number: 395

Mail Envelope Properties (46601DC2.HQGWDO01.TWGWPO04.200.2000015.1.982BB.1)

Subject: FW: Vogtle Geology References
Creation Date: 5/31/2007 3:09:44 PM
From: "^PNNL NRC Vogtle" <nrc.vogtle@pnl.gov>

Created By: nrc.vogtle@pnl.gov

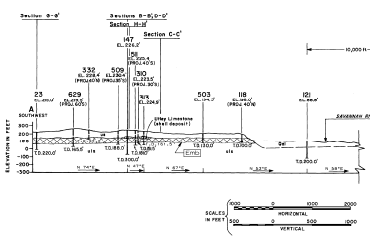
Recipients
<VOGTLE_EIS@nrc.gov>

Post Office	**Route**
TWGWPO04.HQGWDO01	nrc.gov

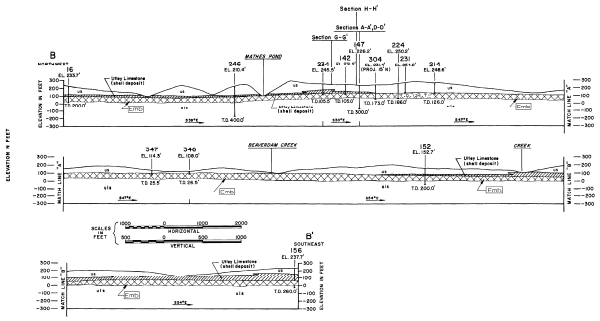
Files	**Size**	**Date & Time**
MESSAGE	561	5/31/2007 3:09:44 PM
AX6DD352.pdf	539028	6/1/2007 1:23:14 PM
AX6DD377.pdf	630055	6/1/2007 1:23:14 PM
AX6DD378.pdf	717092	6/1/2007 1:23:14 PM
AX6DD351.pdf	841338	6/1/2007 1:23:14 PM
Mime.822	3735604	6/1/2007 1:23:14 PM

Options
Priority: Standard
Reply Requested: No
Return Notification: None
None

Concealed Subject: No
Security: Standard



GEOLOGIC SECTION A-A



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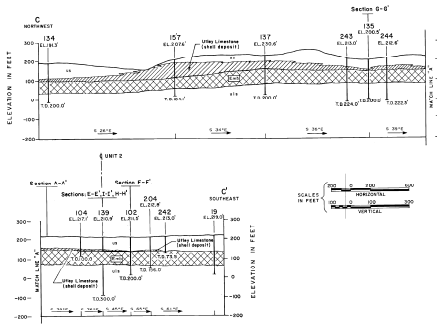

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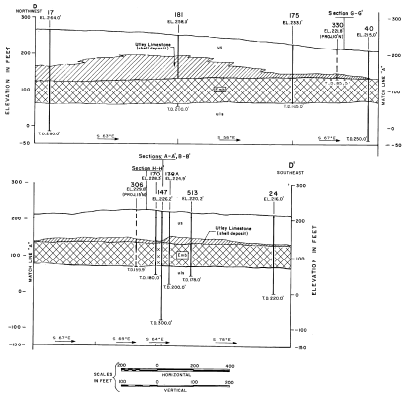

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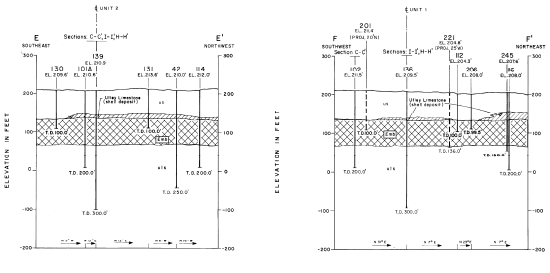

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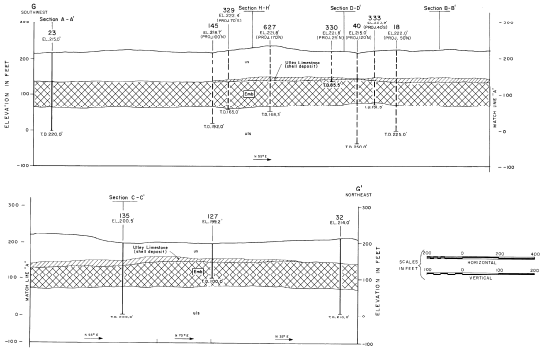

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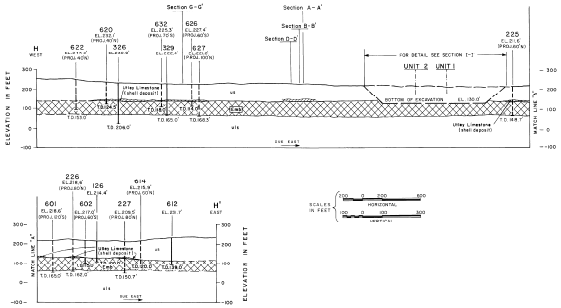
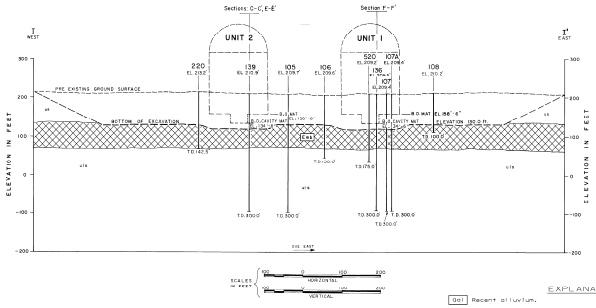
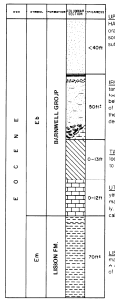


GEOLOGIC SECTION H-H



GEOLOGIC SECTION I-I



STRATIGRAPHIC COLUMN-POWER BLOCK EXCAVATION

EXPLANATION

Qal Recent alluvium.

US UPPER SANDS: undifferentiated uncemented, red-brown, fine-to-medium-grained sand, locally interlayered by more clay seams, loose sands; shell deposits locally at base. Utley Limestone (shell deposit) cross hatched. (Barnwell Group-Hawthorn Formation)

Em BEARING UNIT: hard gray-green true marl, fossiliferous and concretionary. (Lisbon Formation-Blue Bluff Marl)

UTS LOWER SANDS: undifferentiated sand, silt and clay. (Lower Lisbon Formation, Ocala and Clinchfield Formations)

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NO.	REVISIONS	DATE	DR	CHK	APPV	DTL
2						
1						
0	ISSUED FOR REA SUBMITTAL	3/29/06	LG	RDR	LGN	RFF

SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

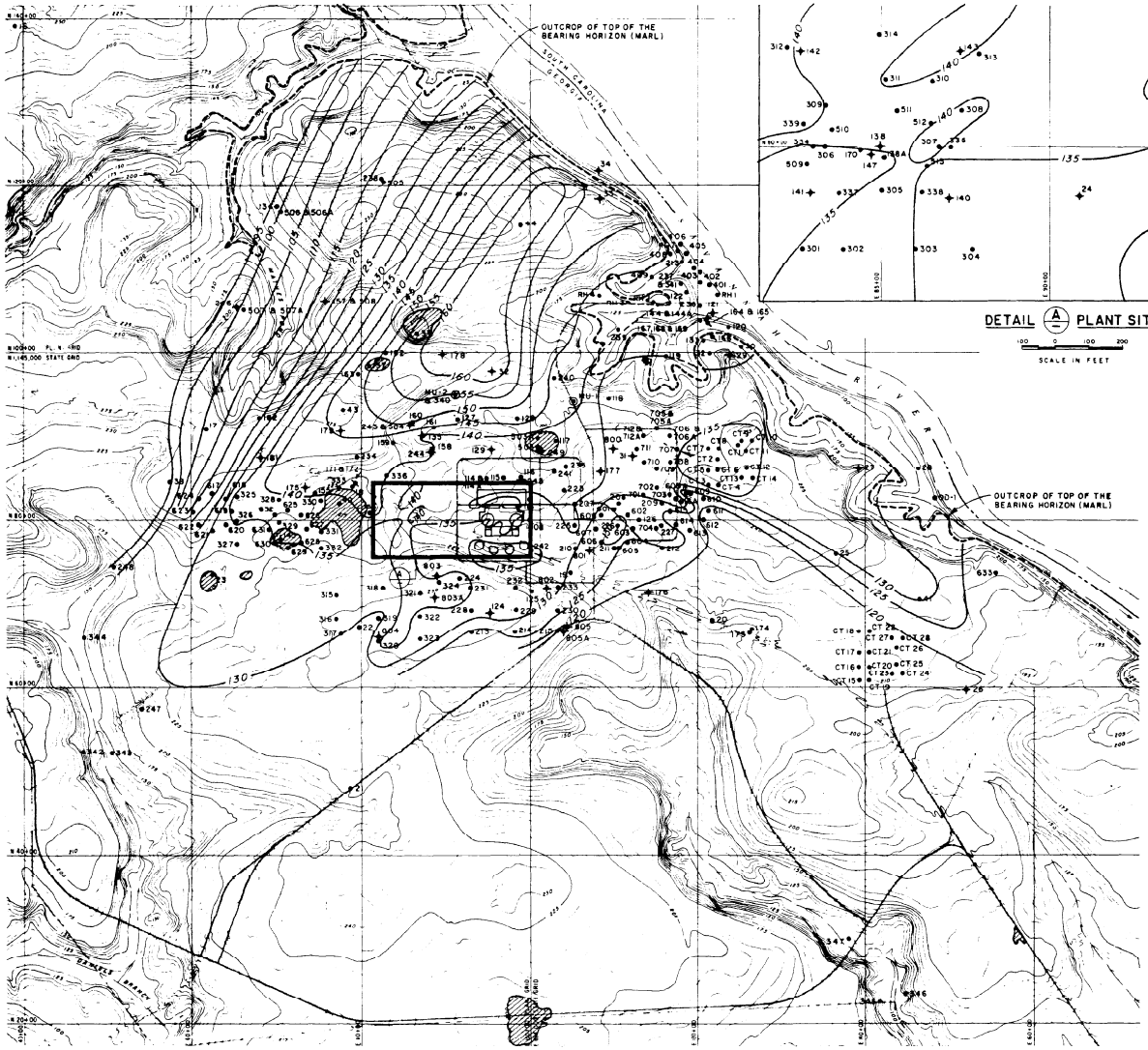
GEOLOGIC SECTIONS

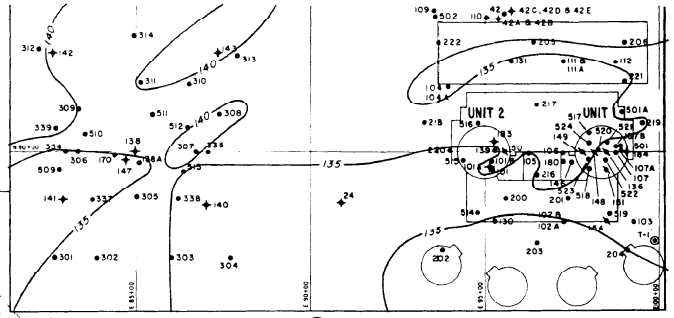
SCALE: NONE | DRAWING NO. AX6DD352 | REV. 0

JOB NO. 10604

SIZE E 34x44 | CAD NAME AX6DD352

Title: C:\Data\DOCUME~1\dmcl\00003746\118e7e97.hst\806fe1ab\AX6DD352.cal





DETAIL A PLANT SITE

SCALE IN FEET

EXPLANATION

- EXPLORATION HOLE
- SEISMIC SURVEY HOLE
- GROUND WATER OBSERVATION HOLE
- MAKE-UP WELL
- SURFACE DEPRESSION
- CONTOURS OF THE TOP OF THE BEARING HORIZON IN FEET ABOVE SEA LEVEL

REFERENCE:

Hancock Landing Project topographic map prepared by Clyde N. Eldridge Aerial Surveys, Feb 25/71

SCALE IN FEET

Contour intervals 5 ft and 25 ft

SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

TOP OF THE BEARING HORIZON (BLUE BLUFF MARL)

NO.	REVISIONS	DATE	DR	CHK	APPV	DTL
0	ISSUED PER REA 96-VAA054	9-30-98	GS	RBH	CBH	WFP

SCALE: NONE

JOB NO. 10604

DRAWING NO. AX6DD377

REV 0

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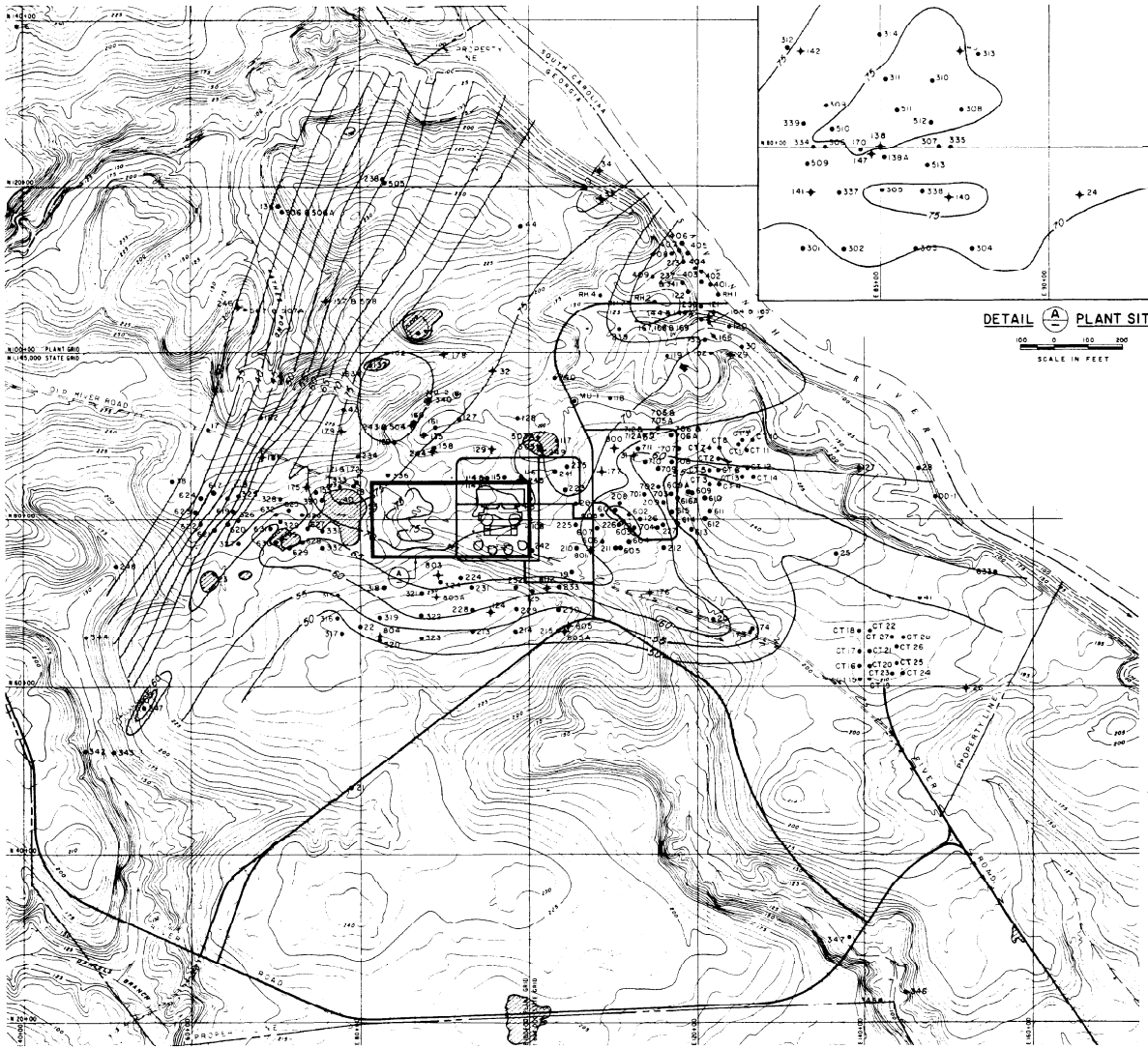
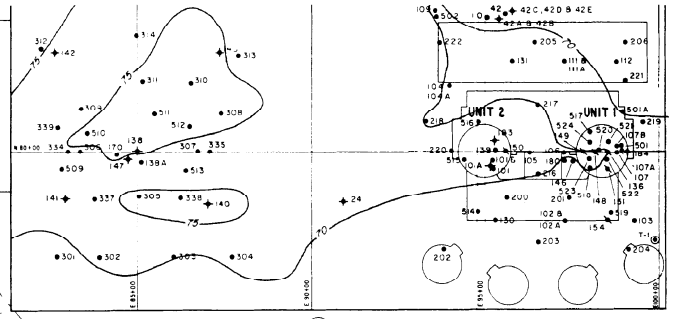
CAD NAME AX6DD377 SIZE B 11x17





DETAIL A PLANT SITE

SCALE IN FEET

EXPLANATION

- 17 EXPLORATION HOLE
- 151 SEISMIC SURVEY HOLE
- 31 GROUND WATER OBSERVATION HOLE
- 71 MAKE-UP WELL
- SURFACE DEPRESSION
- 70 CONTOURS OF THE TOP OF THE BEARING HORIZON IN FEET ABOVE SEA LEVEL

REFERENCE:

Hancock Landing Project topographic map prepared by Clyde N. Eldridge Aerial Surveys, Feb 25/71

SCALE IN FEET

Contour intervals 5 ft. and 25 ft.

SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

BOTTOM OF THE BEARING HORIZON (BLUE BLUFF MARL)

NO.	REVISIONS	DATE	DR	CHK	APPV	DTL
0	ISSUED PER REA 96-VAA054	9-30-98	GS	RBH	CBH	WFP

SCALE: NONE

JOB NO. 10604

DRAWING NO. AX6DD378

REV 0

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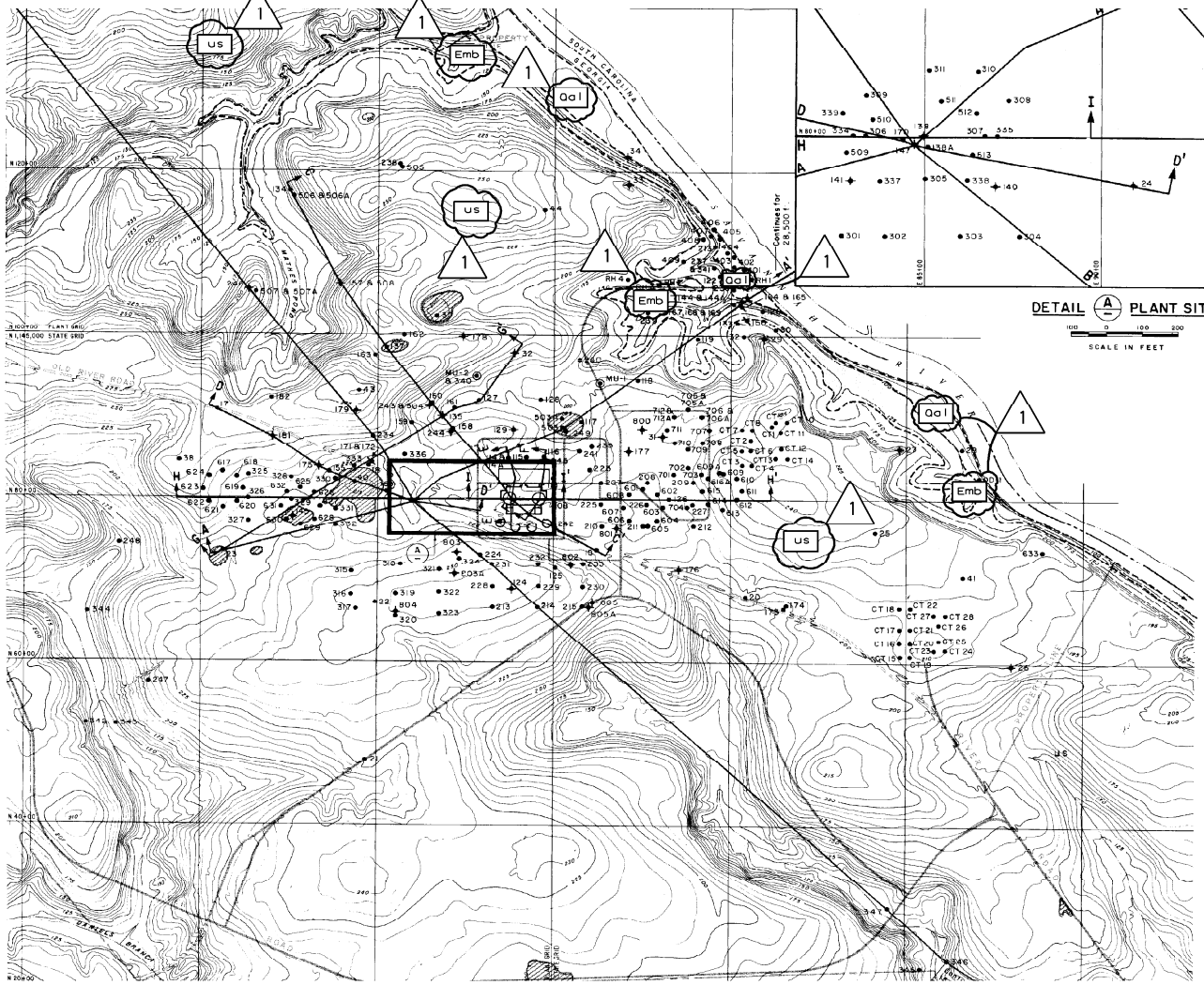

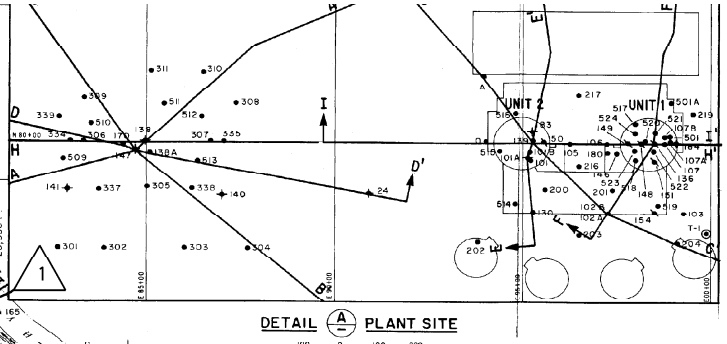

DETAIL (A) PLANT SITE

SCALE IN FEET

EXPLANATION

- Exploration hole
- Seismic survey hole
- Ground water observation hole
- Make up well
- qal — Recent alluvium
- us — UPPER SANDS: Undifferentiated, uncemented, red-brown, yellow, silty sand. Occasionally typified by many clay seams, loose sands and shell deposits. (Hawthorne Formation and Barnwell Group)
- Emb — BEARING UNIT: (Blue Bluff Marl) Hard gray-green true marl, fossiliferous and concretionary
- Geologic contact, approximated
- Geologic section
- Surface depression

REFERENCE:

Hancock Landing Project topographic map prepared by Clyde N. Eldridge Aerial Surveys, Feb 25/71

SCALE IN FEET

Contour intervals 5 ft. and 25 ft.

SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

SITE GEOLOGIC MAP

NO.	REVISIONS	DATE	DR	CHK	APPV	DTL
1	REVISED PER REA 96-VAA054	10-20-98	GS	RBH	WFP	
0	ISSUED PER REA 96-VAA054	SEE MICROFILM FOR SIGNATURES				

SCALE: NONE

JOB NO. 10604

DRAWING NO. AX6DD351

REV 1

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CAD NAME AX6DD351 SIZE B 11x17