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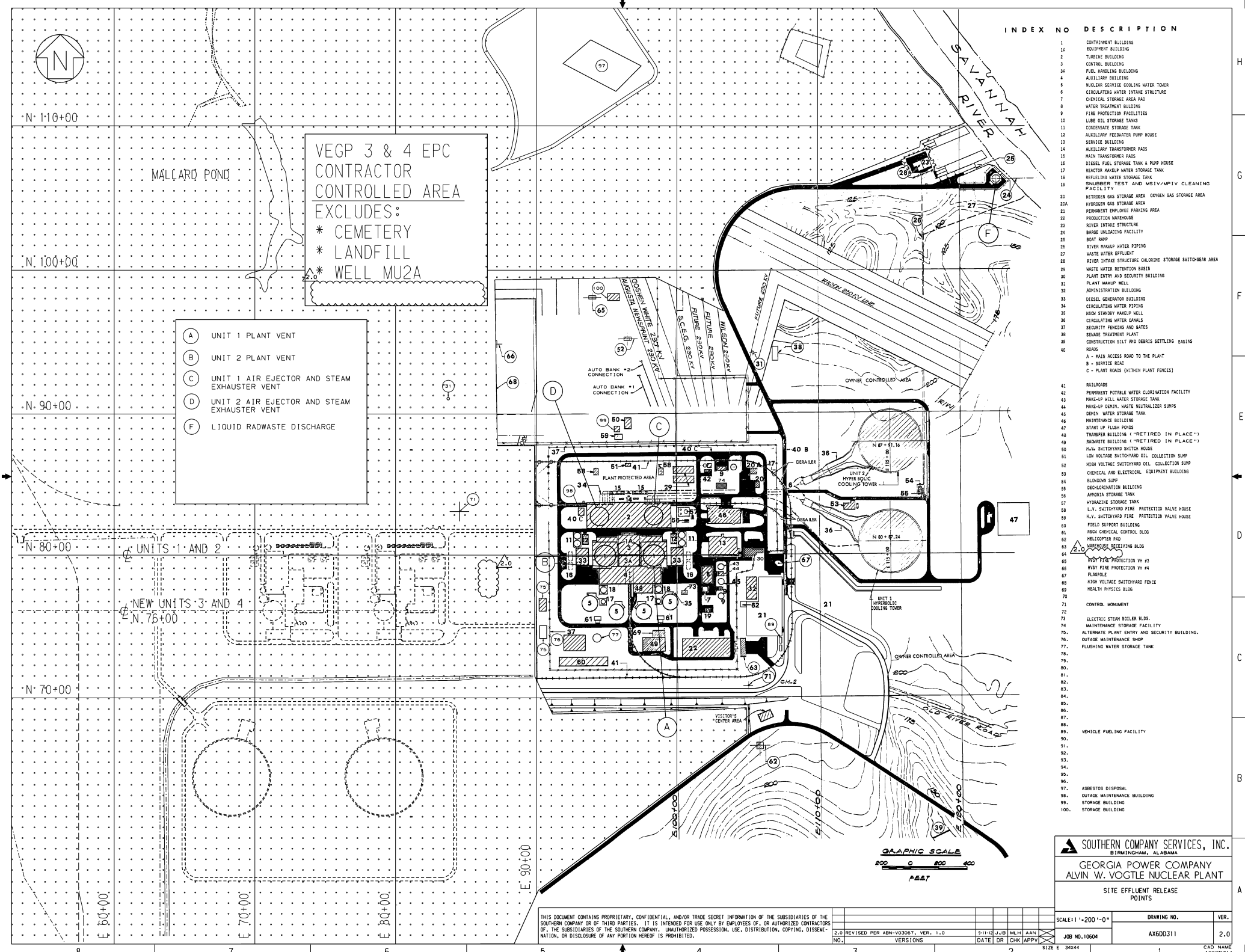
NO.	3.0	REVISED PER ABN C100867501C007. VER. 1.0	11/12/13	JLO	ELC	JMR	CHK	APPV
DATE	CR							

SCALE: 1"=200'-0"	DRAWING NO.	VER.
JOB NO. 10604	AX600311	3.0

SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

SITE EFFLUENT RELEASE POINTS



INDEX NO DESCRIPTION

- 1 CONTAINMENT BUILDING
- 1A EQUIPMENT BUILDING
- 2 TURBINE BUILDING
- 3 CONTROL BUILDING
- 3A FUEL HANDLING BUILDING
- 4 AUXILIARY BUILDING
- 5 NUCLEAR SERVICE COOLING WATER TOWER
- 6 CIRCULATING WATER INTAKE STRUCTURE
- 7 CHEMICAL STORAGE AREA PAD
- 8 WATER TREATMENT BUILDING
- 9 FIRE PROTECTION FACILITIES
- 10 LIQUEFIED GAS STORAGE TANKS
- 11 CONDENSATE STORAGE TANK
- 12 AUXILIARY FEEDWATER PUMP HOUSE
- 13 SERVICE BUILDING
- 14 AUXILIARY TRANSFORMER PADS
- 15 MAIN TRANSFORMER PADS
- 16 DIESEL FUEL STORAGE TANK & PUMP HOUSE
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- 18 REFILLING WATER STORAGE TANK
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 - B - SERVICE ROAD
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SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

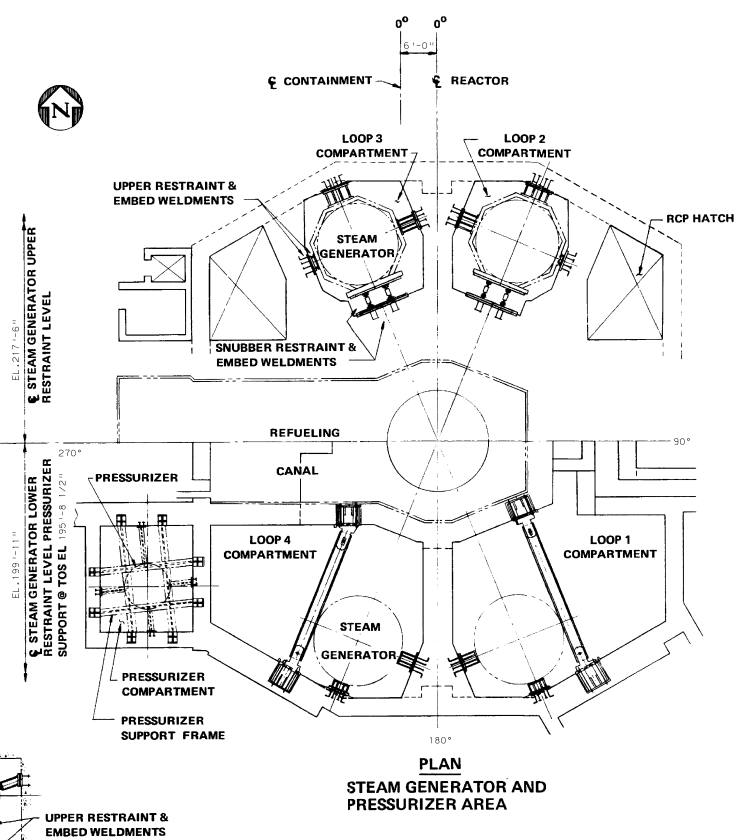
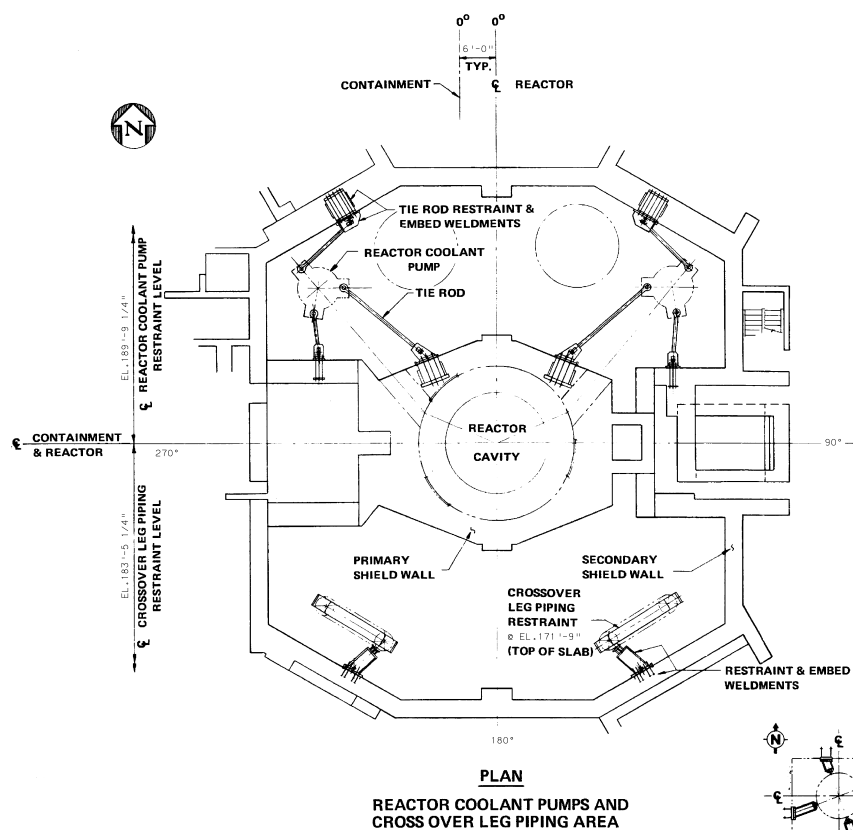
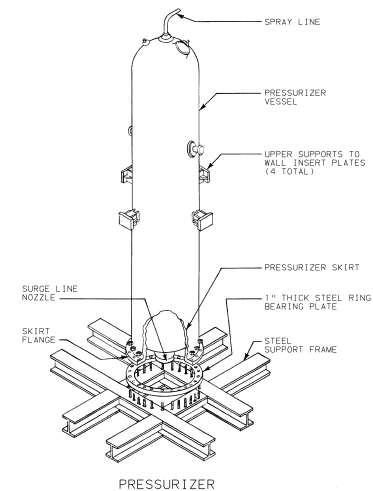
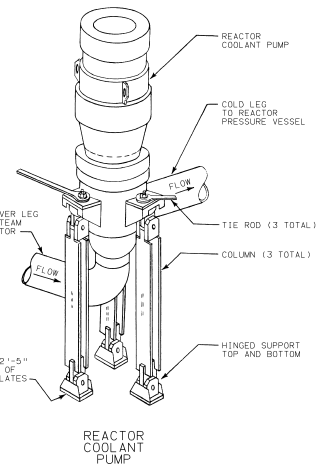
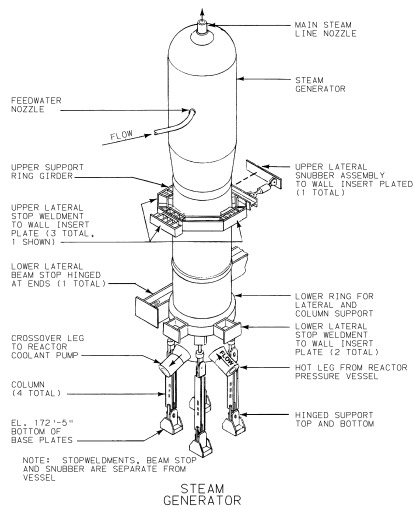
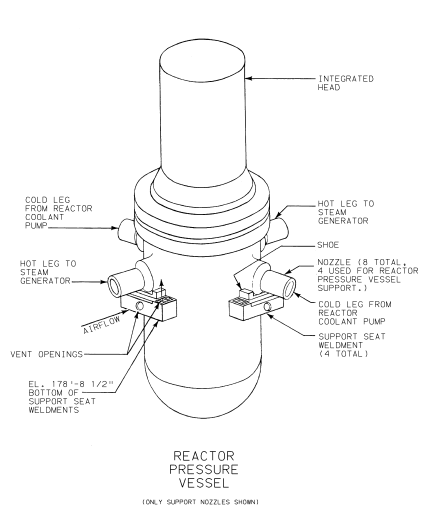
SITE EFFLUENT RELEASE POINTS

SCALE 1"=200'-0"	DRAWING NO.	VER.
SCALE 1"=200'-0"	AX6DD311	2.0

CAO NAME
AX6DD311

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NO.	REVISIONS	DATE	DR	CHK	APPV
2.0	REVISED PER ABN-V03067, VER. 1.0	9-11-12	JJB	MLH	AAN



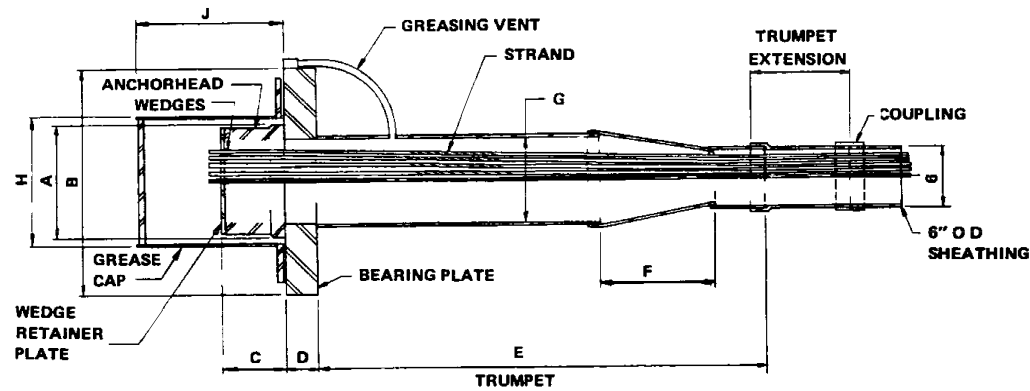
PLAN
PRESSURIZER AREA @
EL 221'-7-7/8"

COMPARTMENTS
LOOP 1 OPPOSITE HAND TO LOOP 2
LOOP 4 OPPOSITE HAND TO LOOP 3

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NO.	ISSUED PER	REV.	DATE	CHK	APPV	DTL
1	PER REA 96-VA0054					
2						
3						
4						
5						
6						
7						
8						

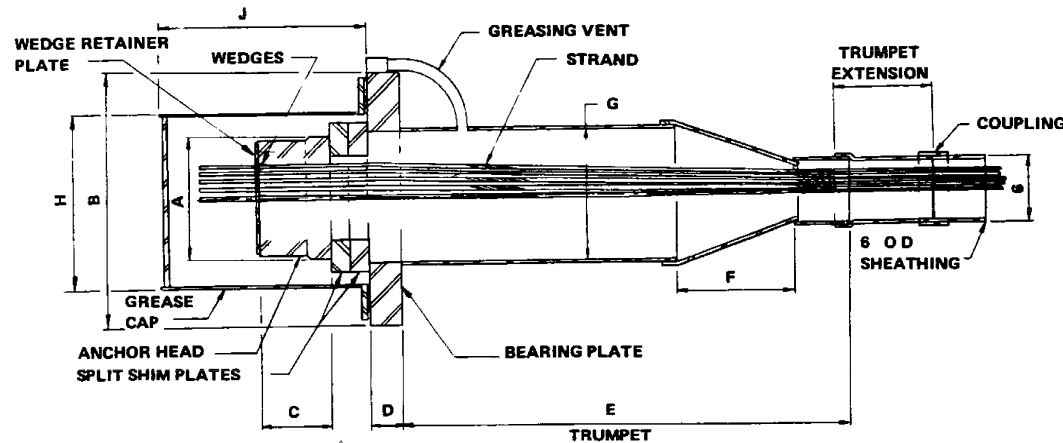
SOUTHERN COMPANY SERVICES, INC. BIRMINGHAM, ALABAMA	
GEORGIA POWER COMPANY ALVIN W. VOGTLE NUCLEAR PLANT	
REACTOR COOLANT SYSTEM COMPONENT SUPPORTS AND ARRANGEMENT (UNIT 1)	
SCALE: 1/8"=1'-0"	DRAWING NO.
JOB NO. 10604	REV.
AX6DD312	0
SIZE E 34X44	



PERMANENT ANCHORAGE ASSEMBLY (UNIT 2)

TYPE	A	B	C	D	E	F	G	H	J
55 STRAND (VSL) PERMANENT	12 1/2"	24" SQ.	6"	3 1/2"	45 1/2"	8"	9"	14"	20 1/2"

APPROX. STRAND AREA = 0.153 SQ. IN.



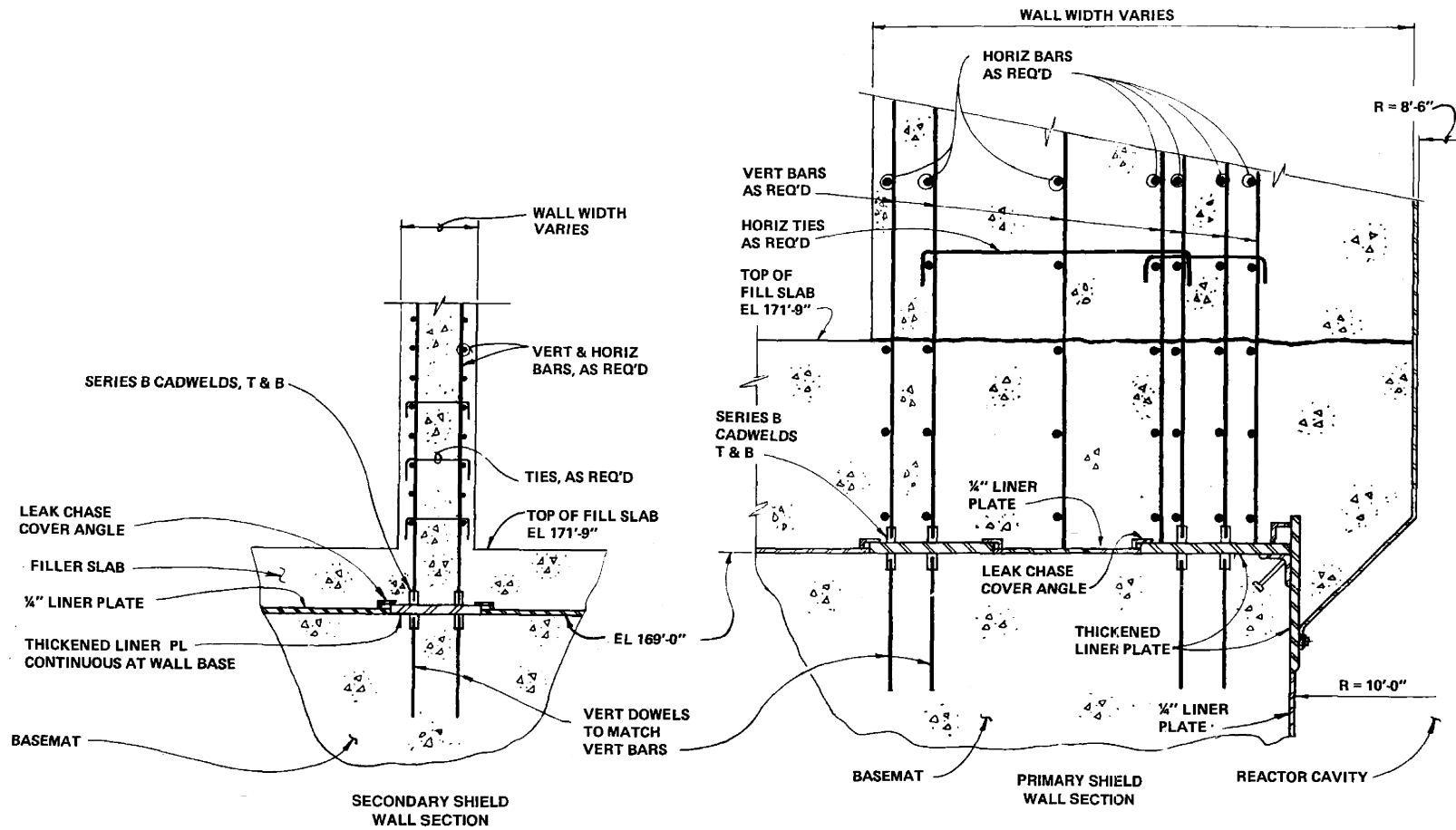
PERMANENT AND DETENSIONABLE ANCHORAGE ASSEMBLIES (UNIT 1)

TYPE	A	B	C	D	E	F	G	H	J
PERMANENT	12 1/2"	24" SQ.	6"	3 1/2"	45 1/2"	11 1/2"	13"	18"	21 3/8"
DETENSIONABLE	12 1/2"	24" SQ.	6"	3 1/2"	45 1/2"	11 1/2"	13"	18"	Horizontal Vertical
									33 3/8" 44 7/8"

SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA
GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT
ANCHORAGE ASSEMBLY (UNIT 1 & 2 SHOWN)

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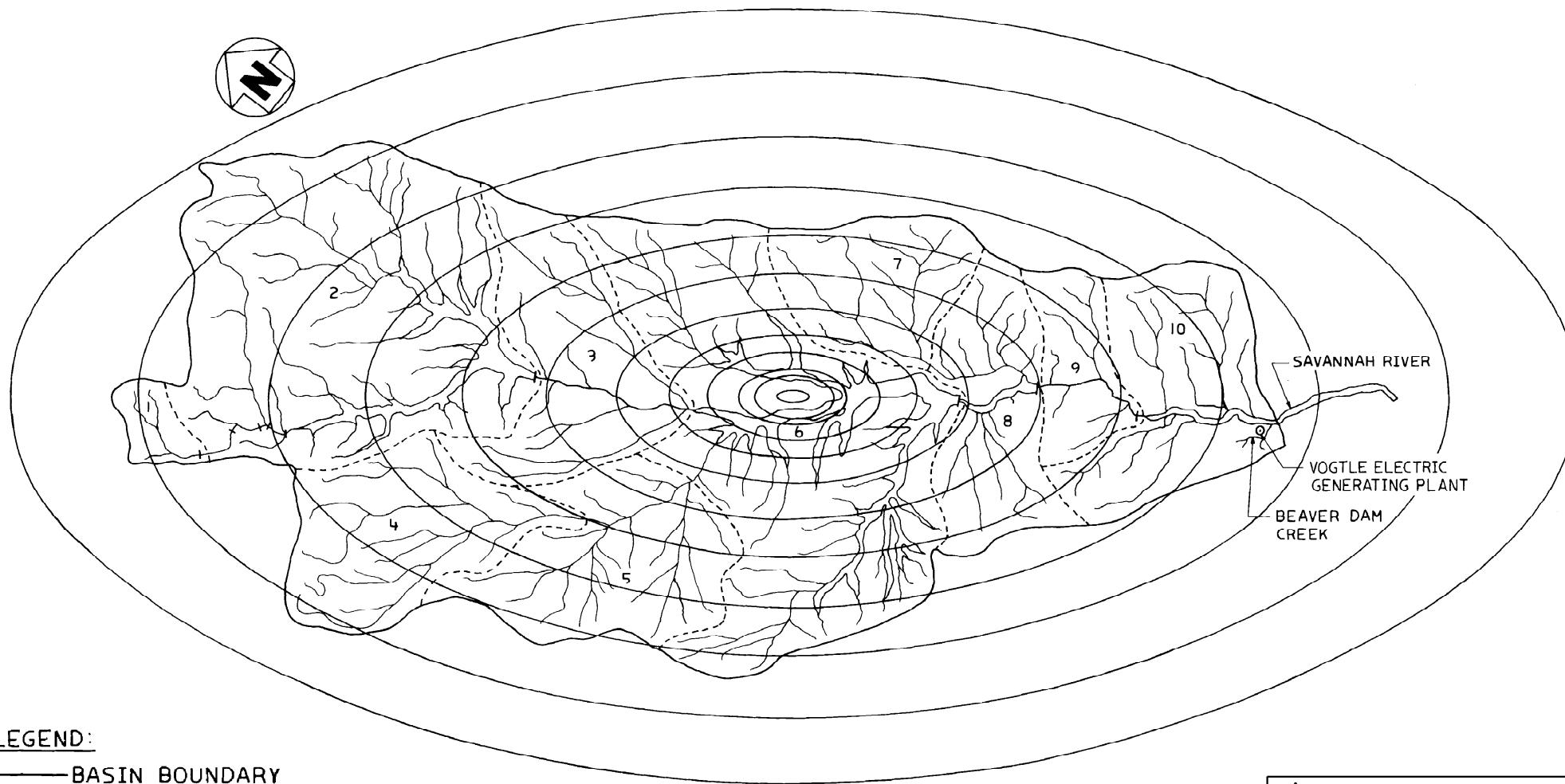
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REVISED PER ABN 80776, VERSION 1.0 8-28-89 ADC LRP ASK
DATE DR CHK APPV DTL JOB NO. 10604 AX6DD313 2.0
SIZE E 34x44



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NO.	REVISIONS	DATE	DR	CHK	APPV	DTL
1	ISSUED PER REA 96-VAA054	7/28/96	AKA	RWH	CBH	WFP

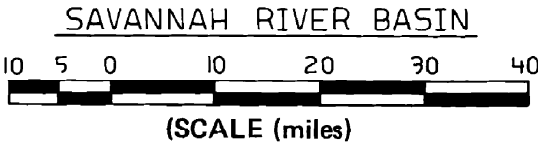
SOUTHERN COMPANY SERVICES, INC. BIRMINGHAM, ALABAMA	
GEORGIA POWER COMPANY ALVIN W. VOGTLE NUCLEAR PLANT	
PRIMARY AND SECONDARY SHIELD WALL ANCHORAGE TO BASEMAT	
SCALE:	DRAWING NO. AX600314
JOB NO. 10604	REV. 0



LEGEND:

- BASIN BOUNDARY
- SUBBASIN BOUNDARY



NOTE:
FOR ISOHYET DEPTHS (in.), SEE
UFSAR TABLE 2.4.3-4. THE ISOHYET
MAJOR TO MINOR AXIS RATIO IS 2 TO 1.

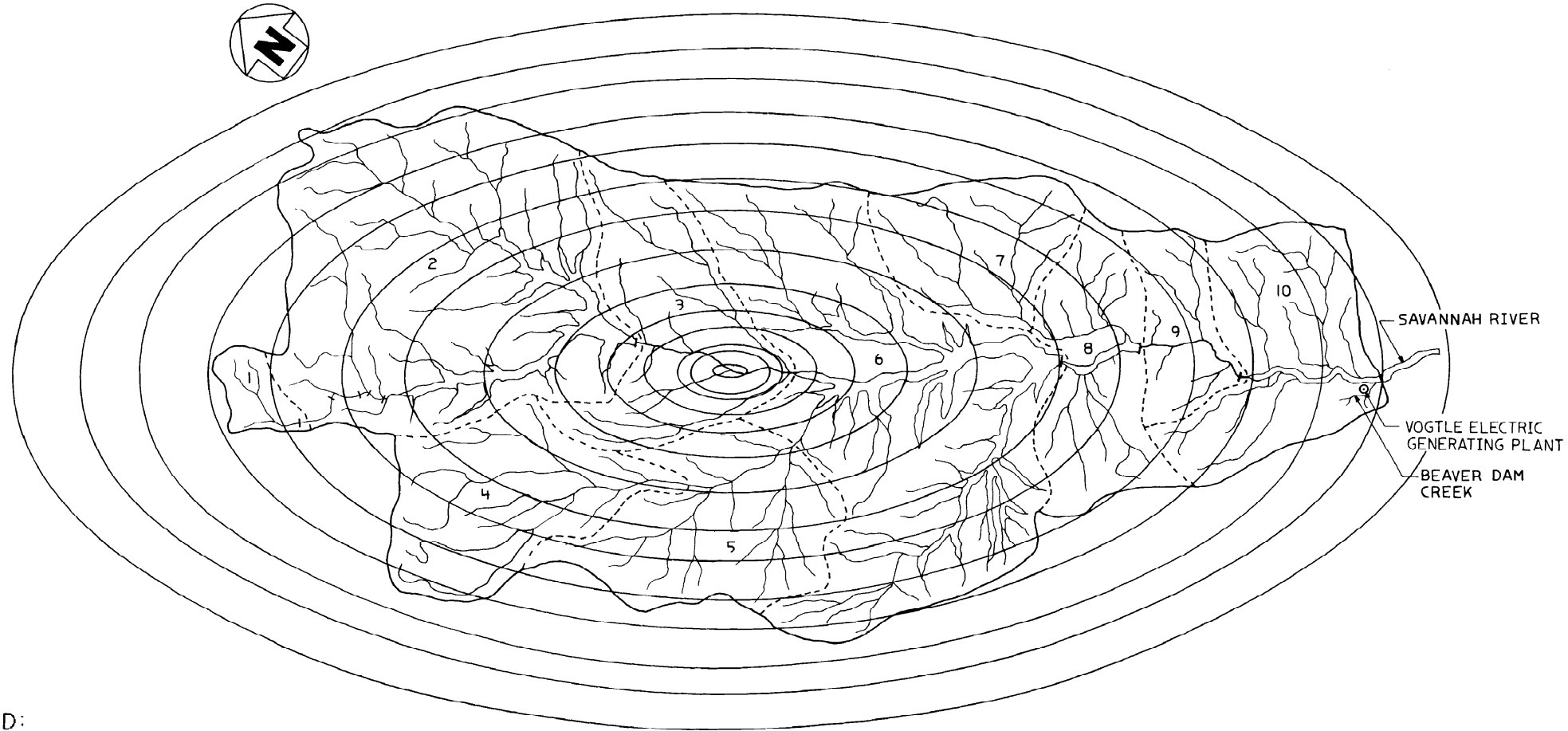


SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

PMP ISOHYETS
POSITION 1, HYDROMET 51
SAVANNAH RIVER BASIN
ABOVE SITE

							SCALE: NONE	DRAWING NO.	REV
	ISSUED PER REA 96-VAA054	9-30-98	GS	RBH	CBH	WFP		JOB NO. 10604	AX6DD315
NO.	REVISIONS	DATE	DR	CHK	APPV	DTL			

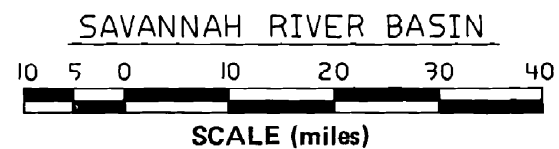



LEGEND:

—— BASIN BOUNDARY
----- SUBBASIN BOUNDARY

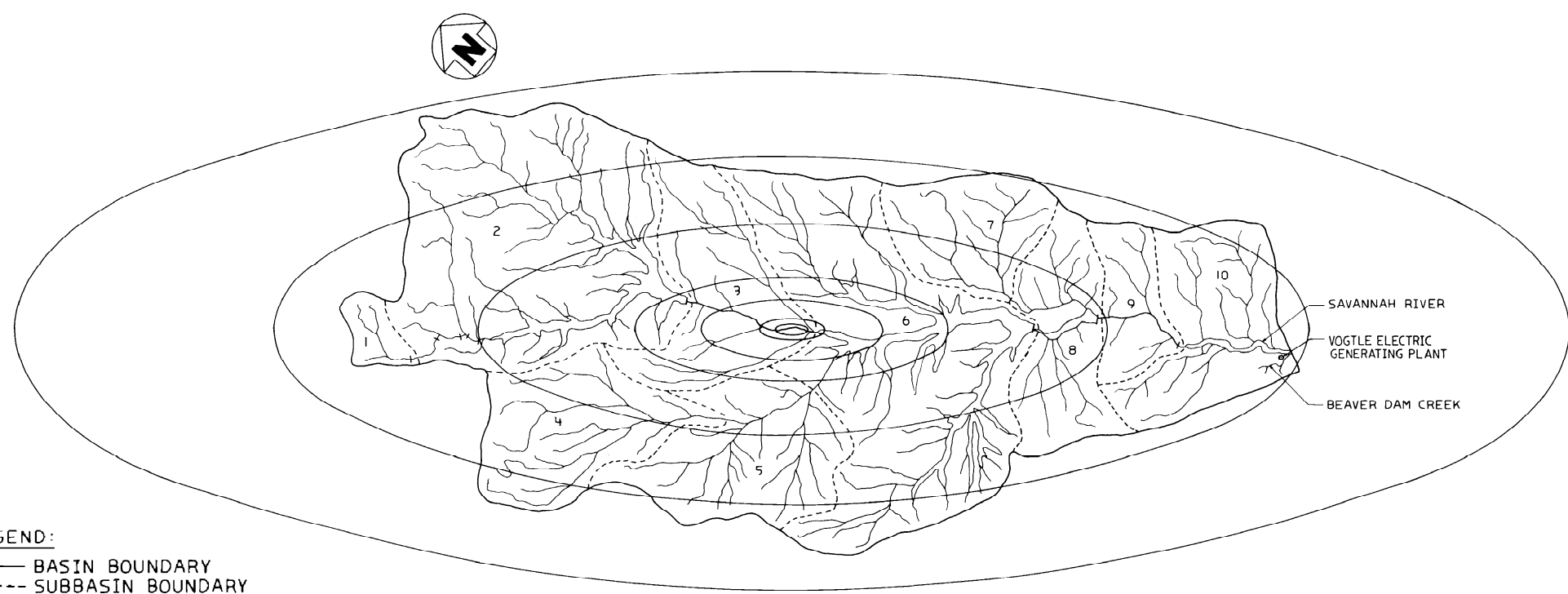
NOTE:

FOR ISOHYET DEPTHS (in.), SEE
UFSAR TABLE 2.4.3-4. THE ISOHYET
MAJOR TO MINOR AXIS RATIO IS 2 TO 1.



 SOUTHERN COMPANY SERVICES, INC. BIRMINGHAM, ALABAMA		
GEORGIA POWER COMPANY ALVIN W. VOGTLE NUCLEAR PLANT		
PMP ISOHYETS POSITION 2, HYDROMET 51 SAVANNAH RIVER BASIN ABOVE SITE		

NO.	ISSUED PER REA 96-VAA054	DATE	DR	CHK	APPV	DTL	SCALE: NONE	DRAWING NO.	REV
							JOB NO. 10604	AX6DD316	0

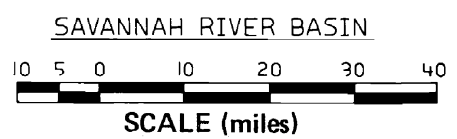



LEGEND:



- BASIN BOUNDARY
- SUBBASIN BOUNDARY

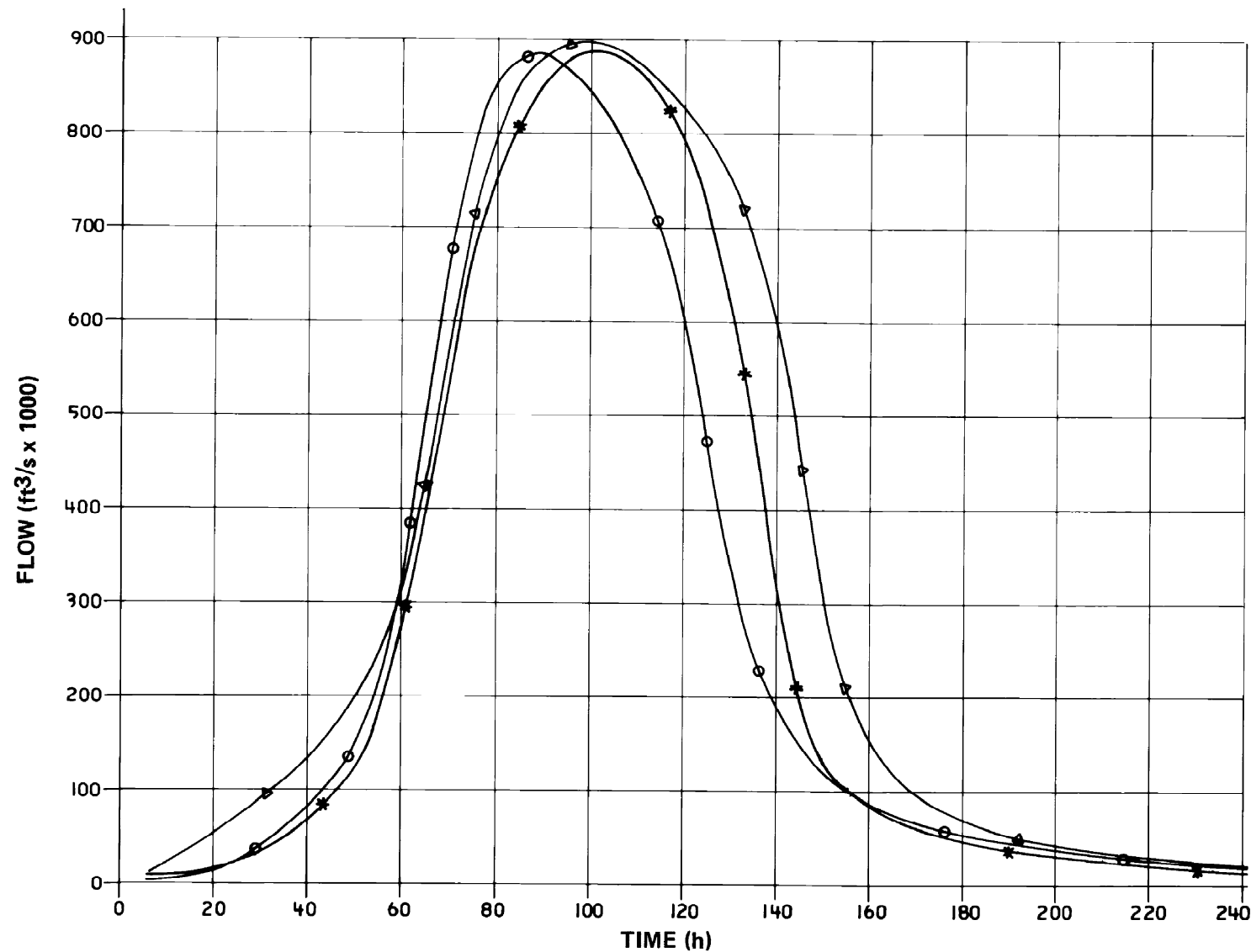
NOTE:

FOR ISOHYET DEPTHS (in.), SEE
UFSAR TABLE 2.4.3-4. THE ISOHYET
MAJOR TO MINOR AXIS RATIO IS 3 TO 1.



 SOUTHERN COMPANY SERVICES, INC. BIRMINGHAM, ALABAMA		
GEORGIA POWER COMPANY ALVIN W. VOGTLE NUCLEAR PLANT		
PMP ISOHYETS POSITION 1, HYDROMET 52 SAVANNAH RIVER BASIN ABOVE SITE		
SCALE: NONE	DRAWING NO.	REV
JOB NO. 10604	AX6DD317	0

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



LEGEND:

- △—△ HYDROMET 52
- POSITION 1
- *—* POSITION 2

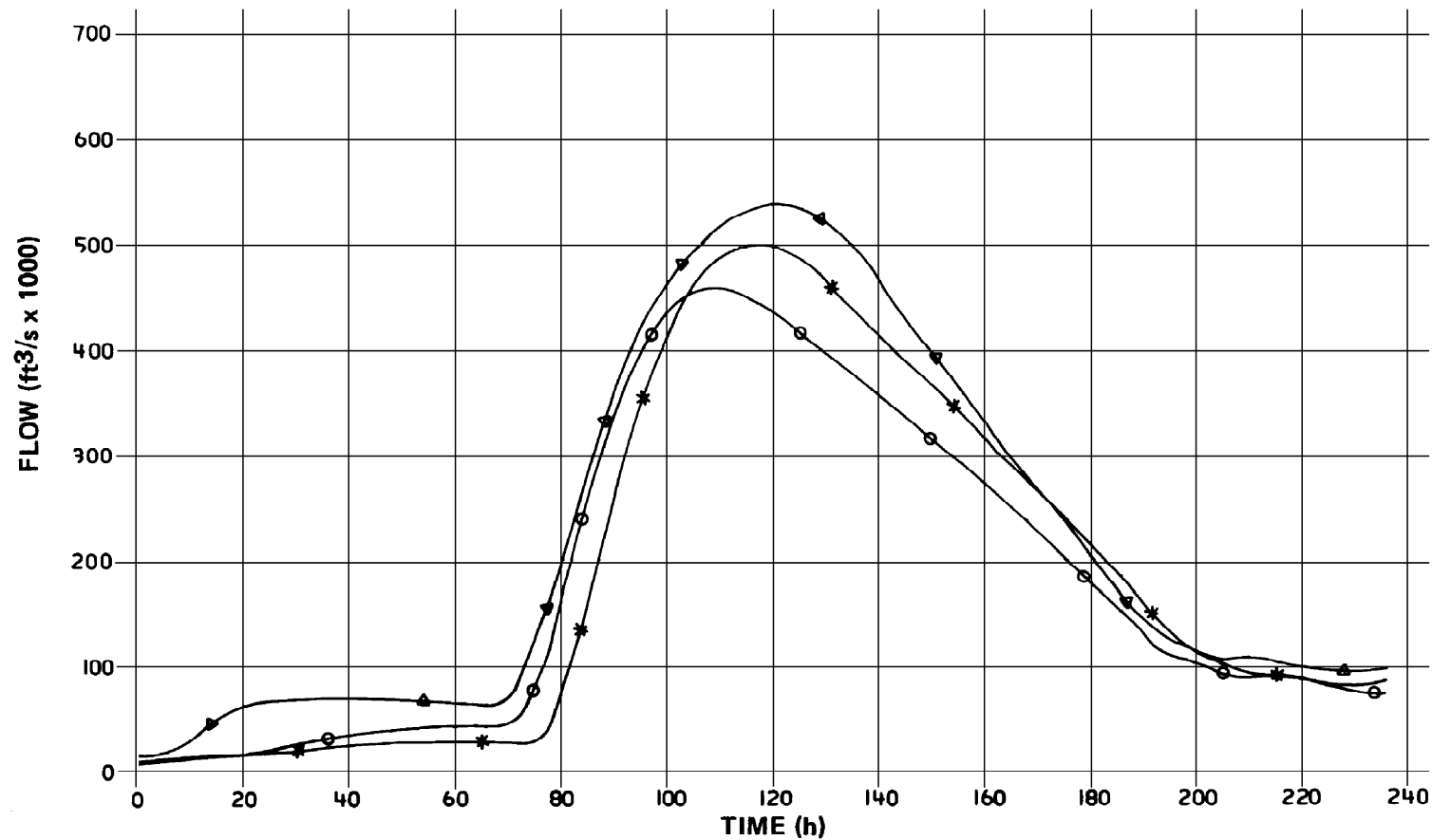
 SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

PROBABLE MAXIMUM FLOOD
HYDROGRAPH (VALLEY
STORAGE NOT CONSIDERED)
AT RIVER MILE 151.1

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

SCALE: NONE	DRAWING NO.	REV
JOB NO. 10604	AX6DD318	0



LEGEND:

- ▲—▲ HYDROMET 52
○—○ POSITION 1
— POSITION 2



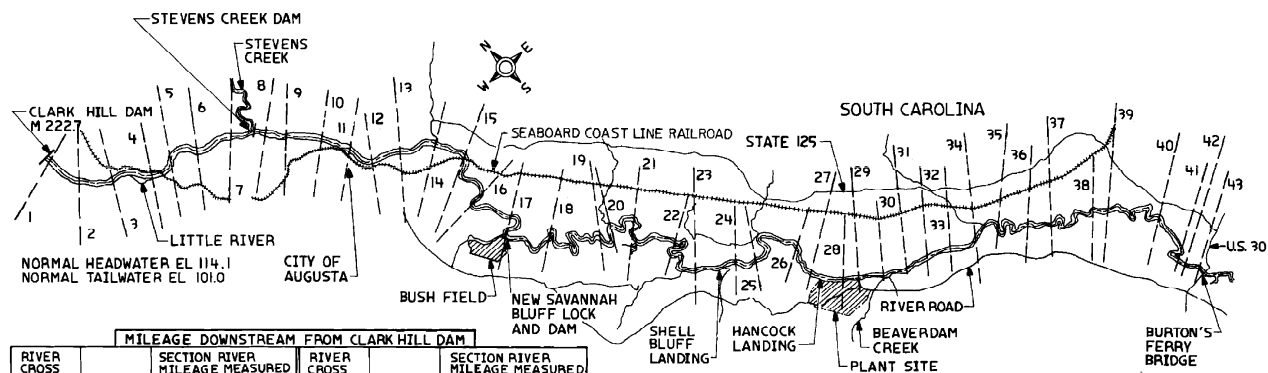
SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

PROBABLE MAXIMUM FLOOD
HYDROGRAPH (VALLEY
STORAGE CONSIDERED)
AT RIVER MILE 151.1

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

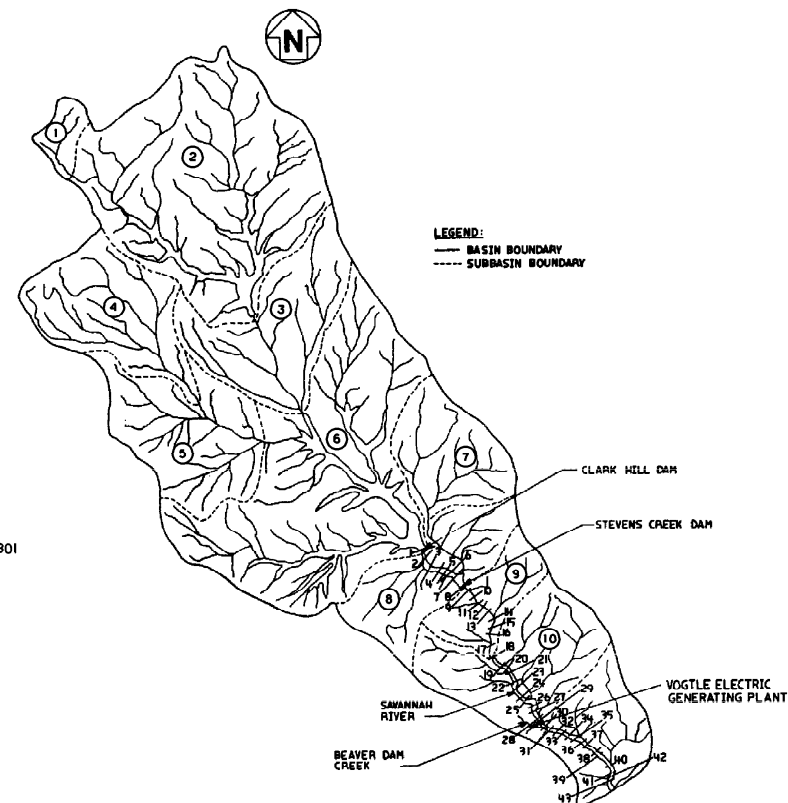
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JOB NO. 10604	AX6DD319	0



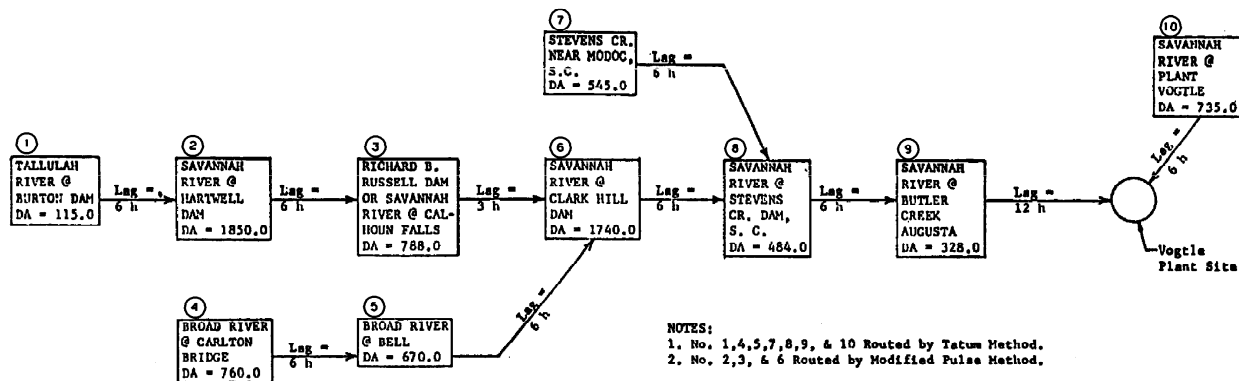
MILEAGE DOWNSTREAM FROM CLARK HILL DAM				
RIVER CROSS SECTION NUMBER	RIVER MILEAGE	SECTION RIVER MILEAGE MEASURED FROM CLARK HILL DAM DOWNSTREAM	RIVER CROSS SECTION NUMBER	RIVER MILEAGE
1	222.5	0.0	23	164.8
2	220.4	2.3	24	162.4
3	218.4	4.3	25	161.1
4	216.0	6.7	26	157.0
5	214.9	8.4	27	154.8
6	212.4	10.3	28	152.0
7	210.3	12.4	29	151.1
8	208.3	14.4	30	149.6
9	207.1	15.6	31	148.3
10	205.2	17.5	32	146.0
11	203.5	19.2	33	144.6
12	202.0	20.7	34	143.0
13	200.3	22.4	35	141.1
14	198.1	24.6	36	137.9
15	196.2	26.5	37	135.3
16	193.2	29.5	38	131.2
17	189.8	32.9	39	129.6
18	183.9	38.8	40	126.3
19	178.2	44.5	41	123.8
20	176.7	46.0	42	120.5
21	173.8	48.9	43	119.1
22	169.3	53.4		

0 1 2 3 4 5 (miles)
GRAPHIC SCALE

NOTE:
APPROXIMATE LOCATION OF
RIVER VALLEY CROSS SECTIONS
USED IN COMPUTING EFFECT
OF DAM FAILURE AT PLANT SITE.
UNSTEADY NON-UNIFORM FLOW.



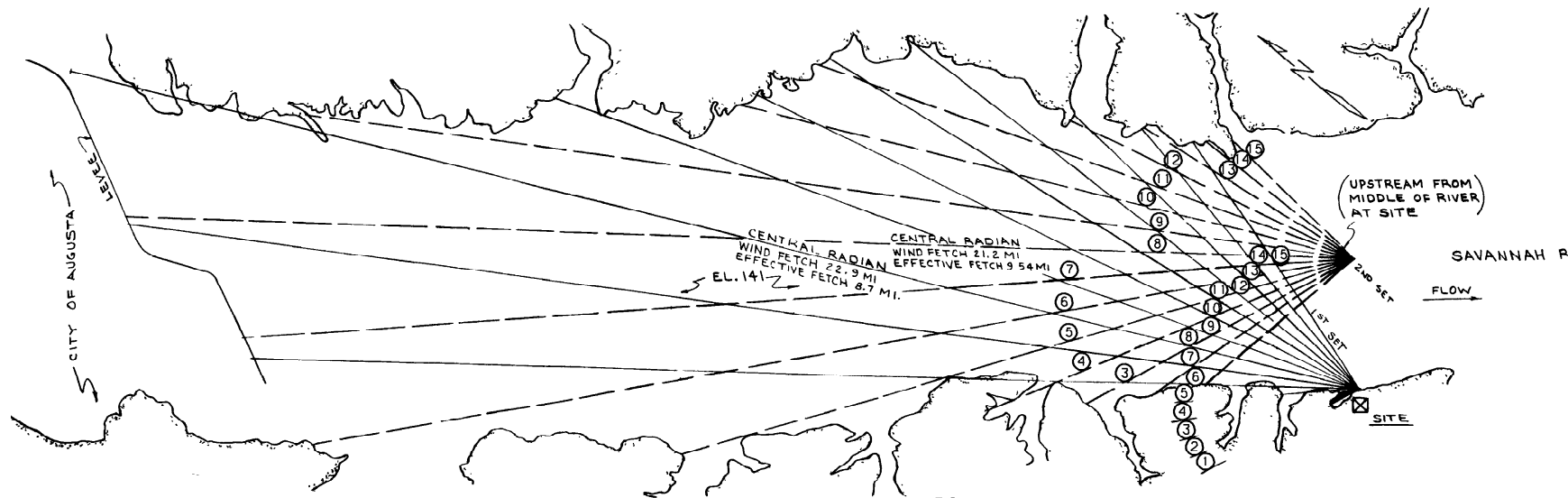
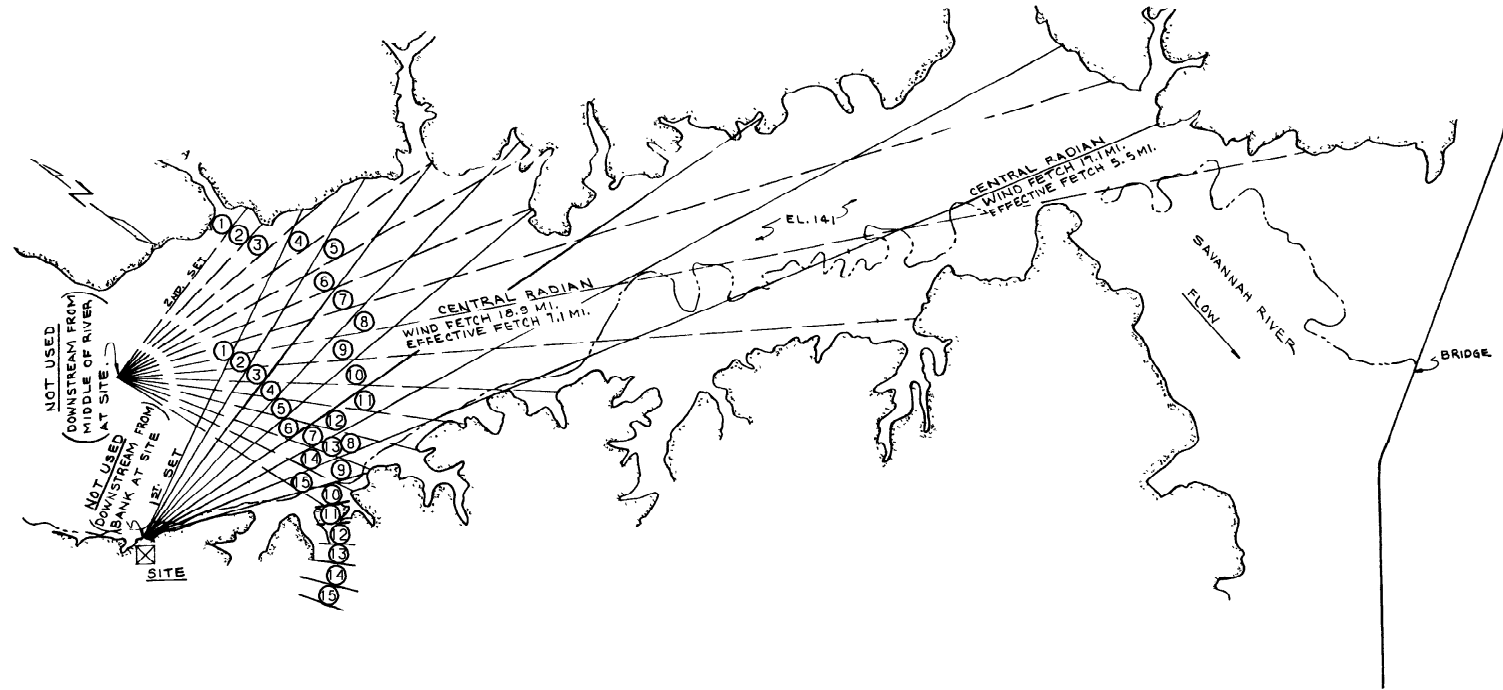
SAVANNAH RIVER BASIN
SCALE: 0 5 10 20 30 40 (miles)



NOTES:
1. No. 1, 4, 5, 7, 8, 9, & 10 Routed by Tatum Method.
2. No. 2, 3, & 6 Routed by Modified Pulse Method.

SOUTHERN COMPANY SERVICES, INC.	
GEORGIA POWER COMPANY	
ALVIN W. VOGTLE NUCLEAR PLANT	
IDENTIFICATION & LOCATION OF SAVANNAH RIVER VALLEY CROSS-SECTION AND ROUTING FOR UNSTEADY FLOW ANALYSIS	
SCALE: NONE	DRAWING NO. AX600320
ISSUED PER REF. SR-VA004	REV. 0
DATE	CHK APPV DTL
REVISIONS	JOB NO. 10004
SIZE E 24x36	AX600320

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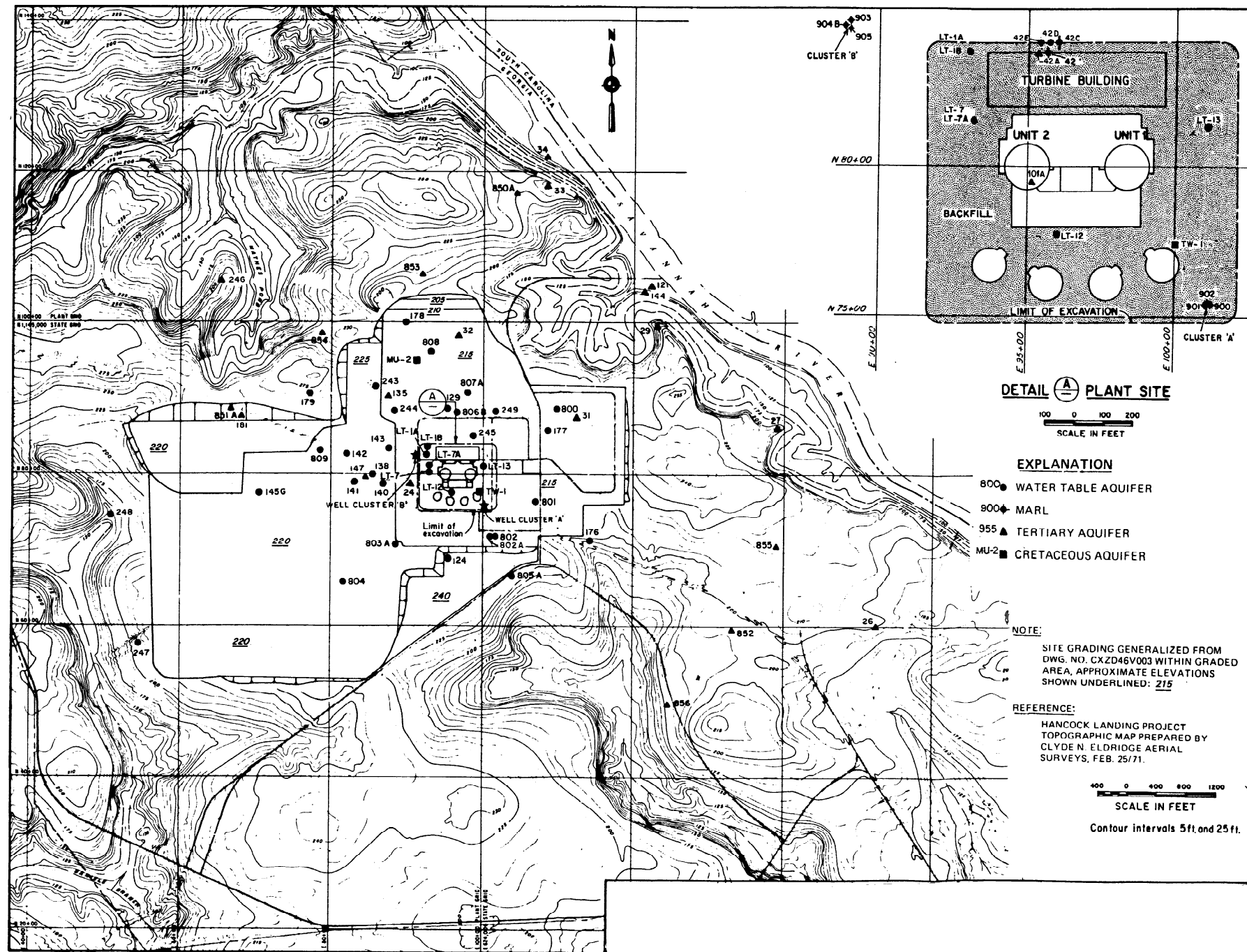


SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

WAVE STUDY
FETCH DIAGRAMS

△								SCALE: NONE	DRAWING NO.	REV
△	ISSUED PER REA 96-VAA054	9-30-98	GS	RBH	CBH	WFP				
NO.	REVISIONS	DATE	DR	CHK	APPV	DTL	JOB NO. 10604		AX6DD321	0



DETAIL (A) PLANT SITE

100 0 100 200
SCALE IN FEET

EXPLANATION

- 800 WATER TABLE AQUIFER
- 900 MARL
- 955 TERTIARY AQUIFER
- MU-2 CRETACEOUS AQUIFER

NOTE:


SITE GRADING GENERALIZED FROM
DWG. NO. CXZD46V003 WITHIN GRADED
AREA, APPROXIMATE ELEVATIONS
SHOWN UNDERLINED: 215

REFERENCE:



HANCOCK LANDING PROJECT
TOPOGRAPHIC MAP PREPARED BY
CLYDE N. ELDRIDGE AERIAL
SURVEYS, FEB. 25/71.

400 0 400 800 1200
SCALE IN FEET

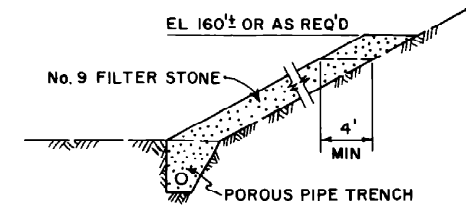
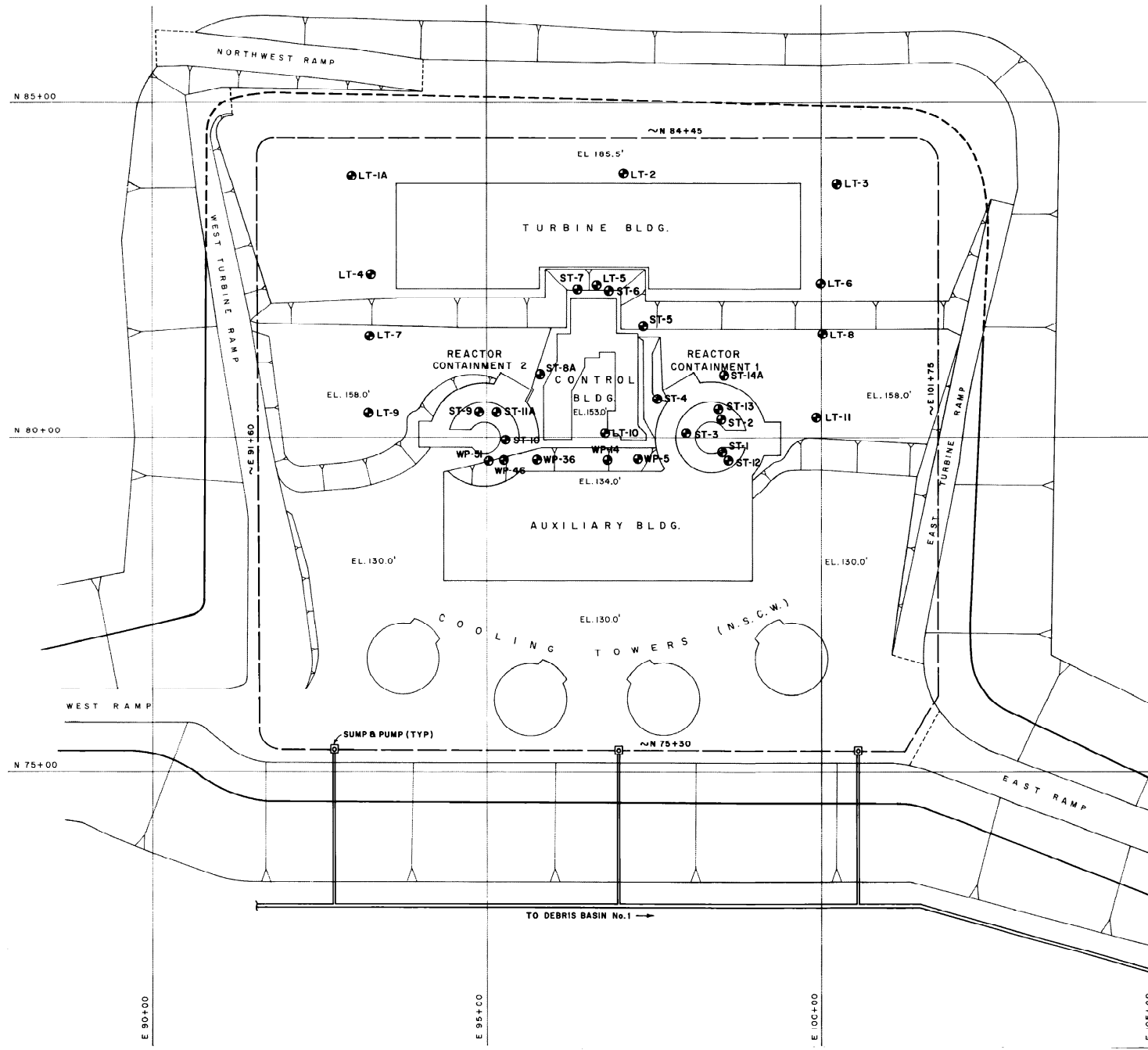
Contour intervals 5 ft. and 25 ft.

 SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA
GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

OBSERVATION WELLS
1971-1985

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

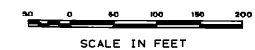
SCALE: NONE	DRAWING NO.	REV
JOB NO. 10604	AX6DD323	0




FILTER ZONE DETAIL
N.T.S.

EXPLANATION

- Top of filter blanket —
dashed where covered by fill
- Porous pipe trench
- ⊠ Sump and pump
- ⊙ LT-2 Long term piezometer
(Location approximate)
- ⊙ ST-1 Short term piezometer
(Location approximate)
- ⊙ WP-5 Observation well
(Location approximate)



 SOUTHERN COMPANY SERVICES, INC. BIRMINGHAM, ALABAMA		
GEORGIA POWER COMPANY ALVIN W. VOGTLE NUCLEAR PLANT		
CONSTRUCTION DEWATERING PLAN		

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

SCALE: NONE	DRAWING NO.	REV
JOB NO. 10604	AX6DD324	0



EXPLANATION

- 30 ● DOMESTIC WATER WELL
- 2 Q_L SAMPLED SPRING
- 4 Δ SURFACE WATER SAMPLE POINT
- 36 O DRILL HOLES
- S411 ● U.S.G.S. MONITOR WELL (AEC SRP)
- B — B' GEOLOGIC SECTION



0 1 2
SCALE IN MILES



SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

OUTLYING EXPLORATION
HOLES, WELLS, AND SPRINGS



NO.

ISSUED PER REA 96-VAA054

REVISIONS

9-30-98

DATE

GS

DR

RBH

CHK

CBH

APPV

WFP

DTL

SCALE: NONE

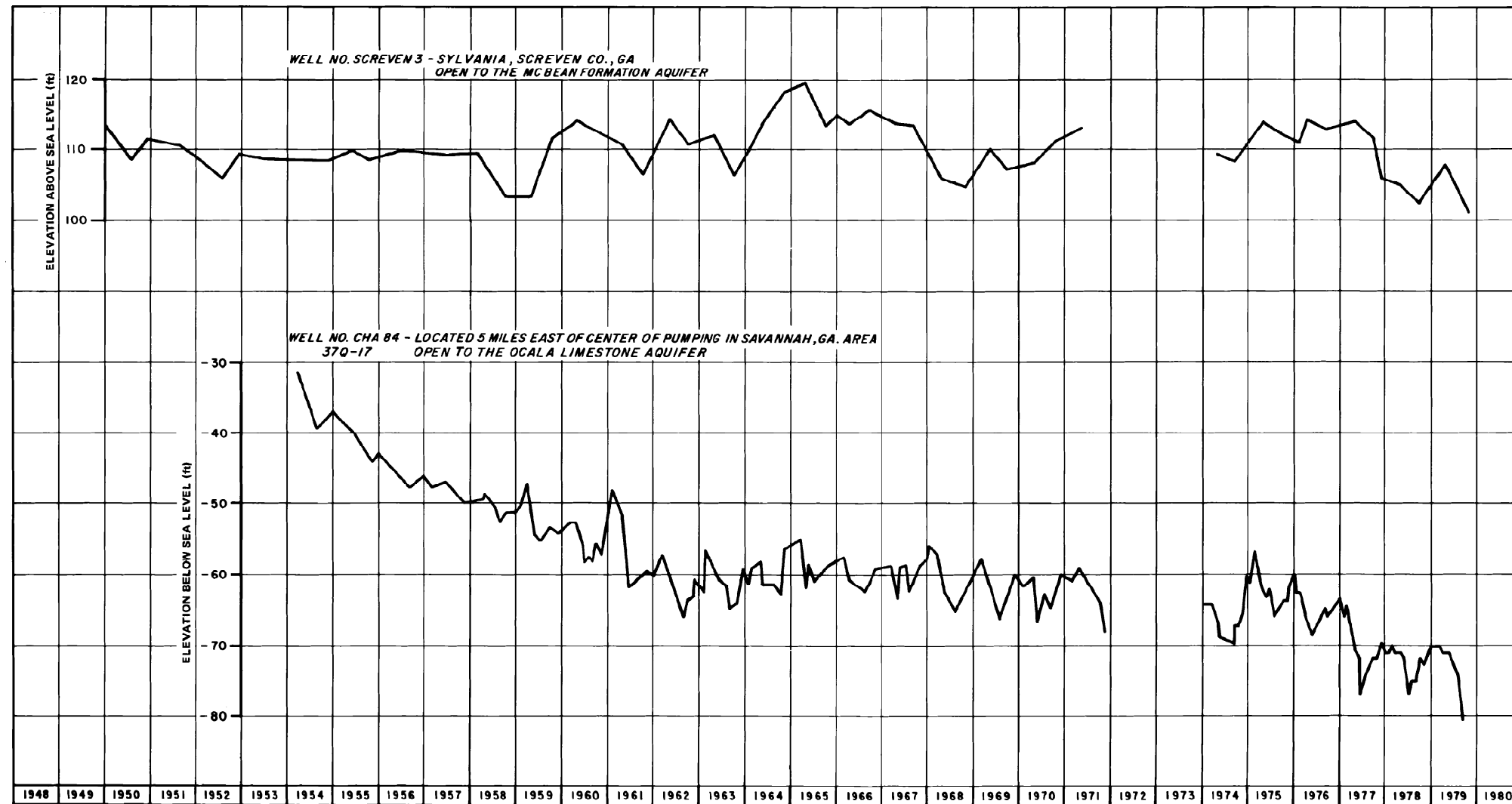
JOB NO. 10604

DRAWING NO.

AX6DD325

REV

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


COASTAL PLAIN OF GEORGIA - SOUTH CAROLINA
U.S. GEOLOGICAL SURVEY - A.E.C. SAVANNAH RIVER PROJECT

 SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

HYDROGRAPHS OF WATER
WELLS-SCREVEN 3; CHA 84

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

SCALE: NONE

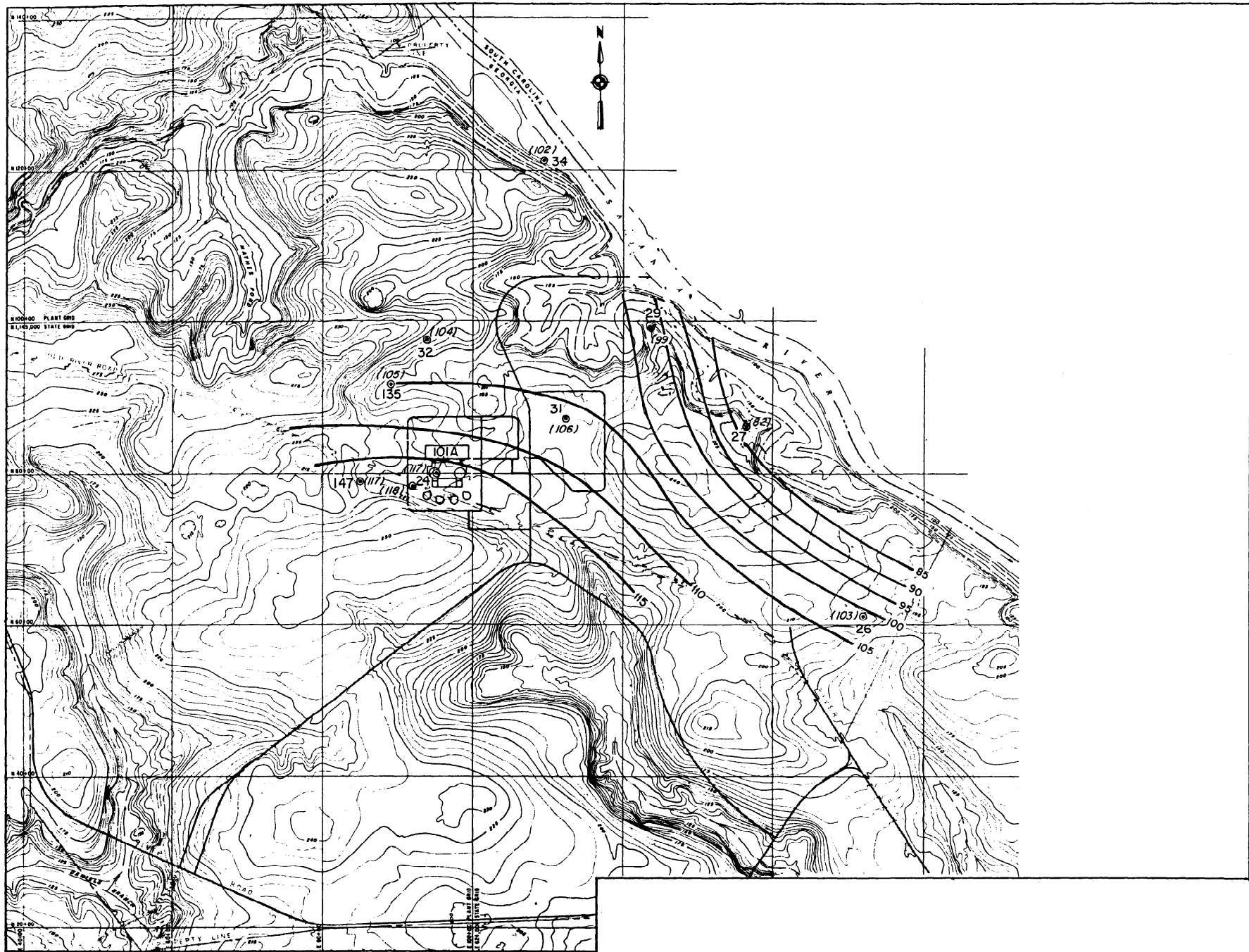
DRAWING NO.

REV

JOB NO. 10604

AX6DD326

0



EXPLANATION

- 31
●
(106)
OBSERVATION WELL
PIEZOMETRIC ELEVATION IN PARENTHESES
- 100
—
CONTOUR OF PIEZOMETRIC SURFACE
ELEVATION

REFERENCE:
HANCOCK LANDING PROJECT
TOPOGRAPHIC MAP PREPARED BY
CLYDE N. ELDRIDGE AERIAL
SURVEYS, FEB. 25/71.

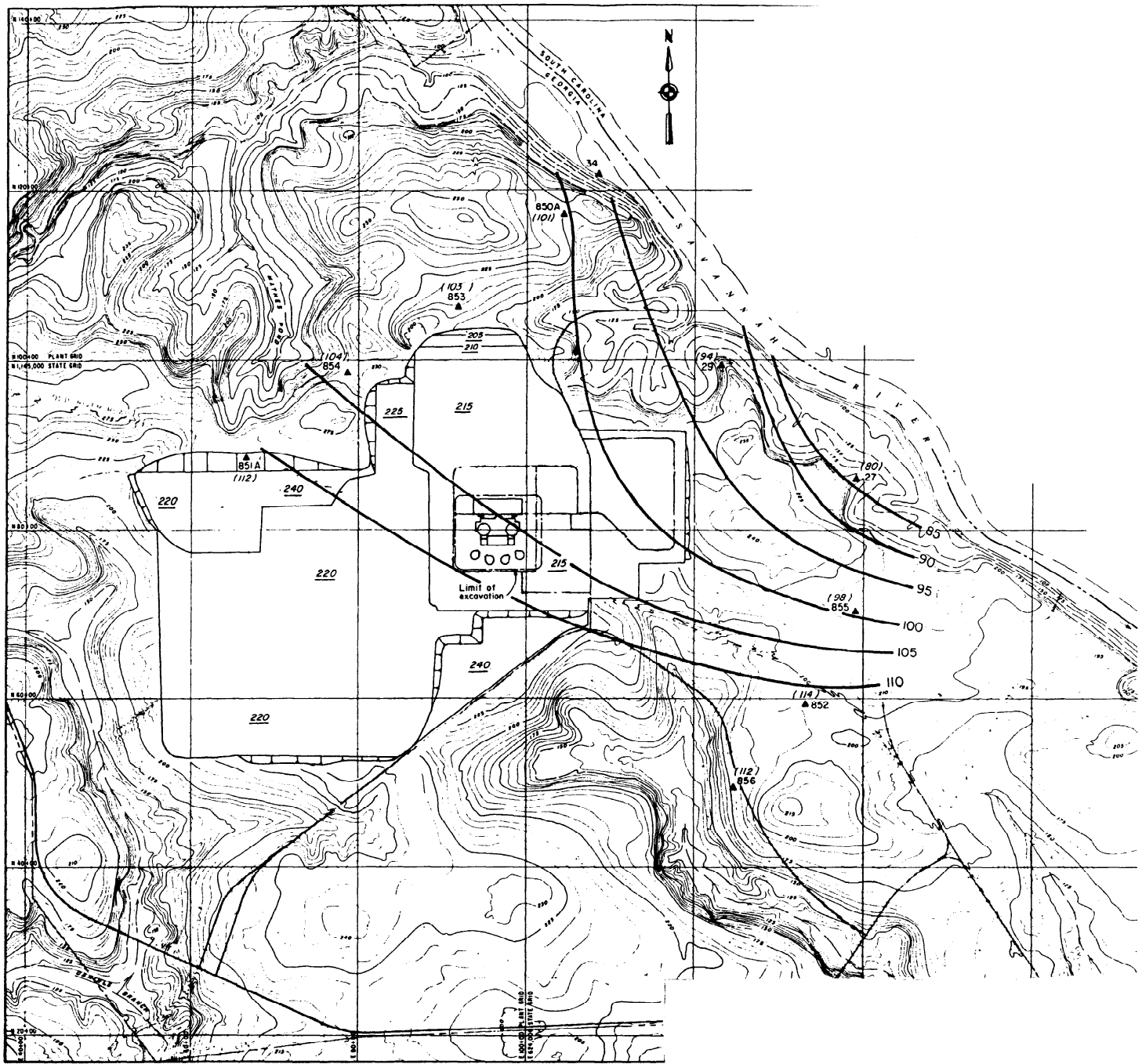
100 200 400 600 800 1000
SCALE IN FEET
CONTOUR INTERVALS 5 FT. AND 20 FT.

SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA
GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

PIEZOMETRIC SURFACE OF
TERTIARY AQUIFER
OCTOBER 1971

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

SCALE: NONE	DRAWING NO.	REV
JOB NO. 10604	AX6DD327	0



EXPLANATION

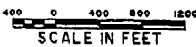
- ▲ 853 (103) OBSERVATION WELL
PIEZOMETRIC ELEVATION IN PARENTHESES
- 100 — CONTOUR OF PIEZOMETRIC SURFACE
ELEVATION

NOTE:


SITE GRADING GENERALIZED FROM
DWG. NO. CXZD46V003 WITHIN GRADED
AREA, APPROXIMATE ELEVATIONS
SHOWN UNDERLINED: 215

REFERENCE:

HANCOCK LANDING PROJECT
TOPOGRAPHIC MAP PREPARED BY
CLYDE N. ELDRIDGE AERIAL
SURVEYS, FEB. 25/71.



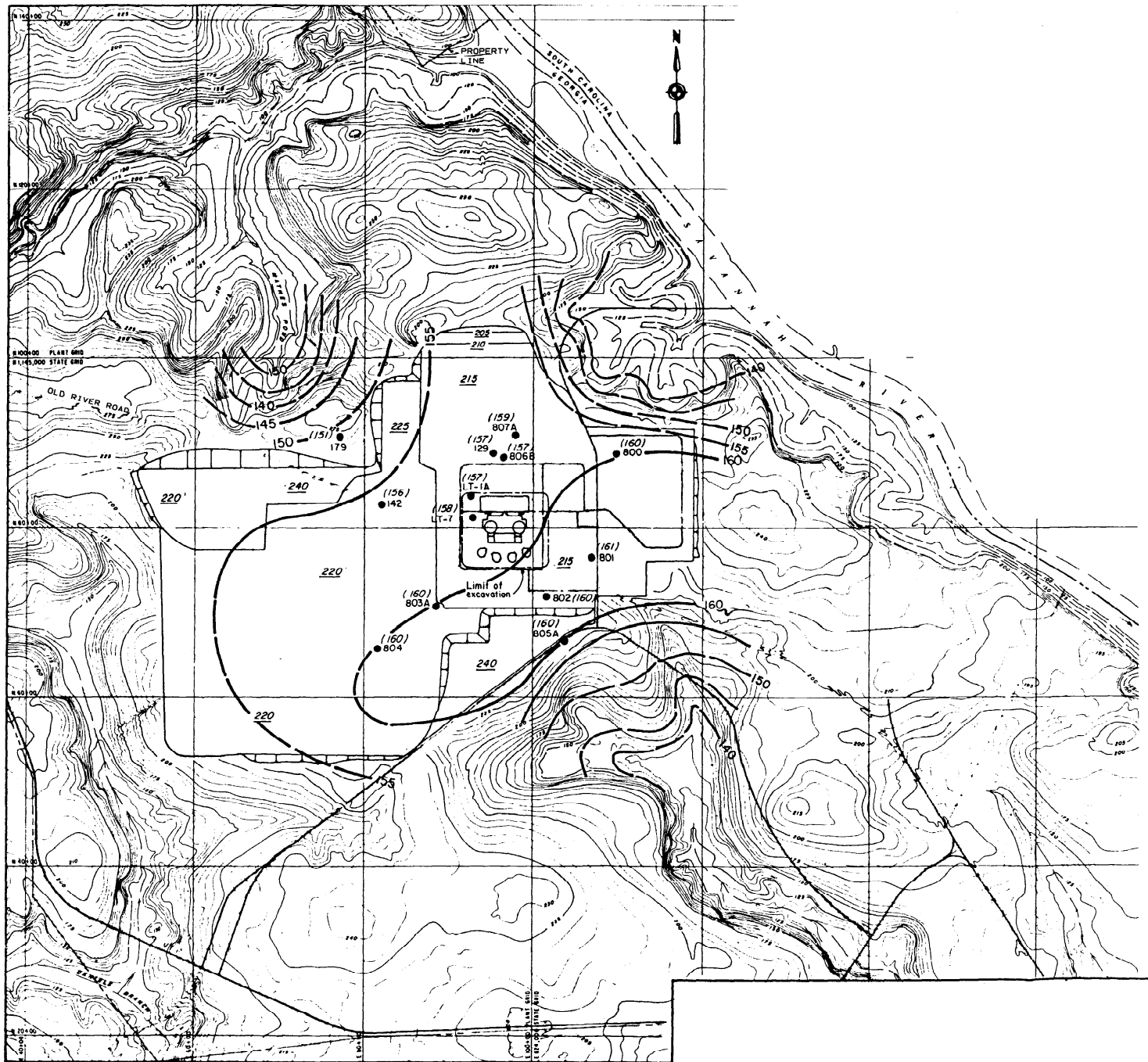
Contour intervals 5 ft. and 25 ft.

SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

PIEZOMETRIC SURFACE OF
TERTIARY AQUIFER
DECEMBER 1984

NO.	ISSUED PER REA 96-VAA054	DATE	DR	CHK	APPV	DTL	SCALE: NONE	DRAWING NO.	REV
							JOB NO. 10604	AX6DD328	0



800
●
(160) OBSERVATION WELL
WATER TABLE ELEVATION IN PARENTHESES

160 CONTOUR OF GROUND-WATER ELEVATION

NOTE:

SITE GRADING GENERALIZED FROM
DWG. NO. CXZD46V003 WITHIN GRADED
AREA, APPROXIMATE ELEVATIONS
SHOWN UNDERLINED: 215

REFERENCE:

HANCOCK LANDING PROJECT
TOPOGRAPHIC MAP PREPARED BY
CLYDE N. ELDRIDGE AERIAL
SURVEYS, FEB. 25/71.

100 0 400 800 1200
SCALE IN FEET

Contour intervals 5ft. and 25ft.

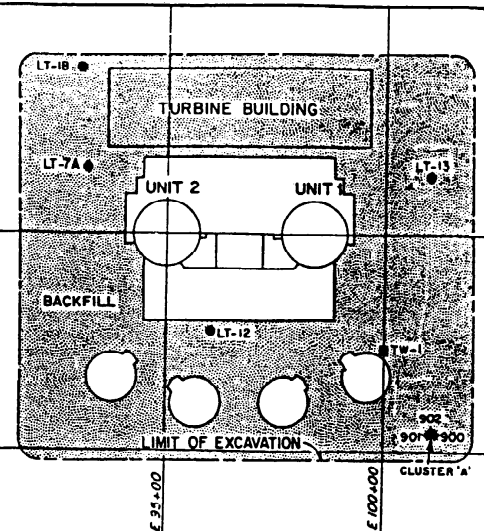
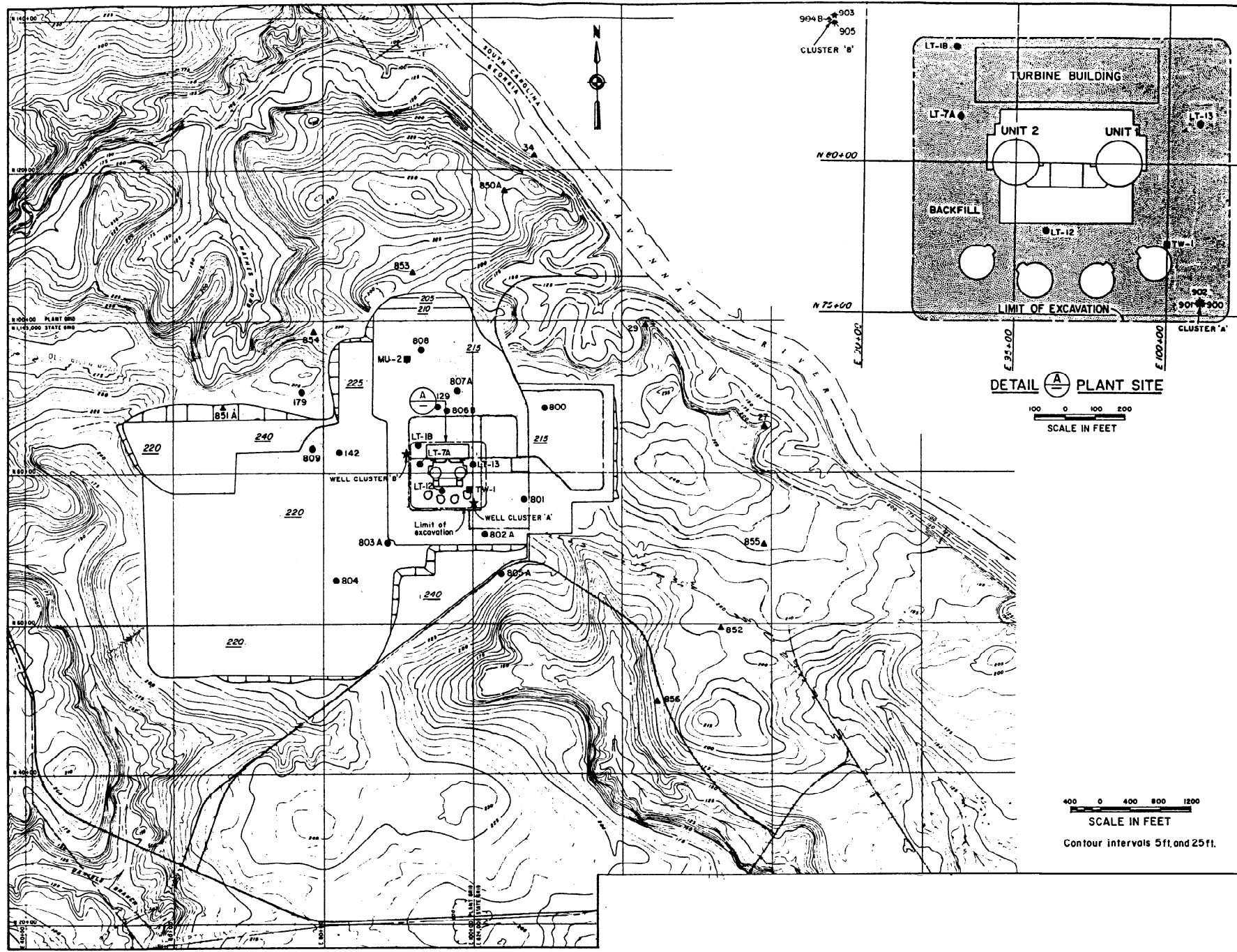
 SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA


GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

CONTOURS OF WATER TABLE
AQUIFER DECEMBER 1984

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

SCALE: NONE	DRAWING NO.	REV
JOB NO. 10604	AX6DD330	0



DETAIL  PLANT SITE
100 0 100 200
SCALE IN FEET

400 0 400 800 1200
SCALE IN FEET
Contour intervals 5ft. and 25ft.

EXPLANATION

- 800 ● WATER TABLE AQUIFER
- 900 ◆ MARL
- 855 ▲ TERTIARY AQUIFER
- MU-2 ■ CRETACEOUS AQUIFER


NOTES:

THE WELLS SHOWN ARE USED FOR THE GROUND WATER MONITORING PROGRAM INITIATED DURING THE SUMMER OF 1985



SITE GRADING GENERALIZED FROM DWG. NO. CXZD46V003 WITHIN GRADED AREA, APPROXIMATE ELEVATIONS SHOWN UNDERLINED: 215

REFERENCE:

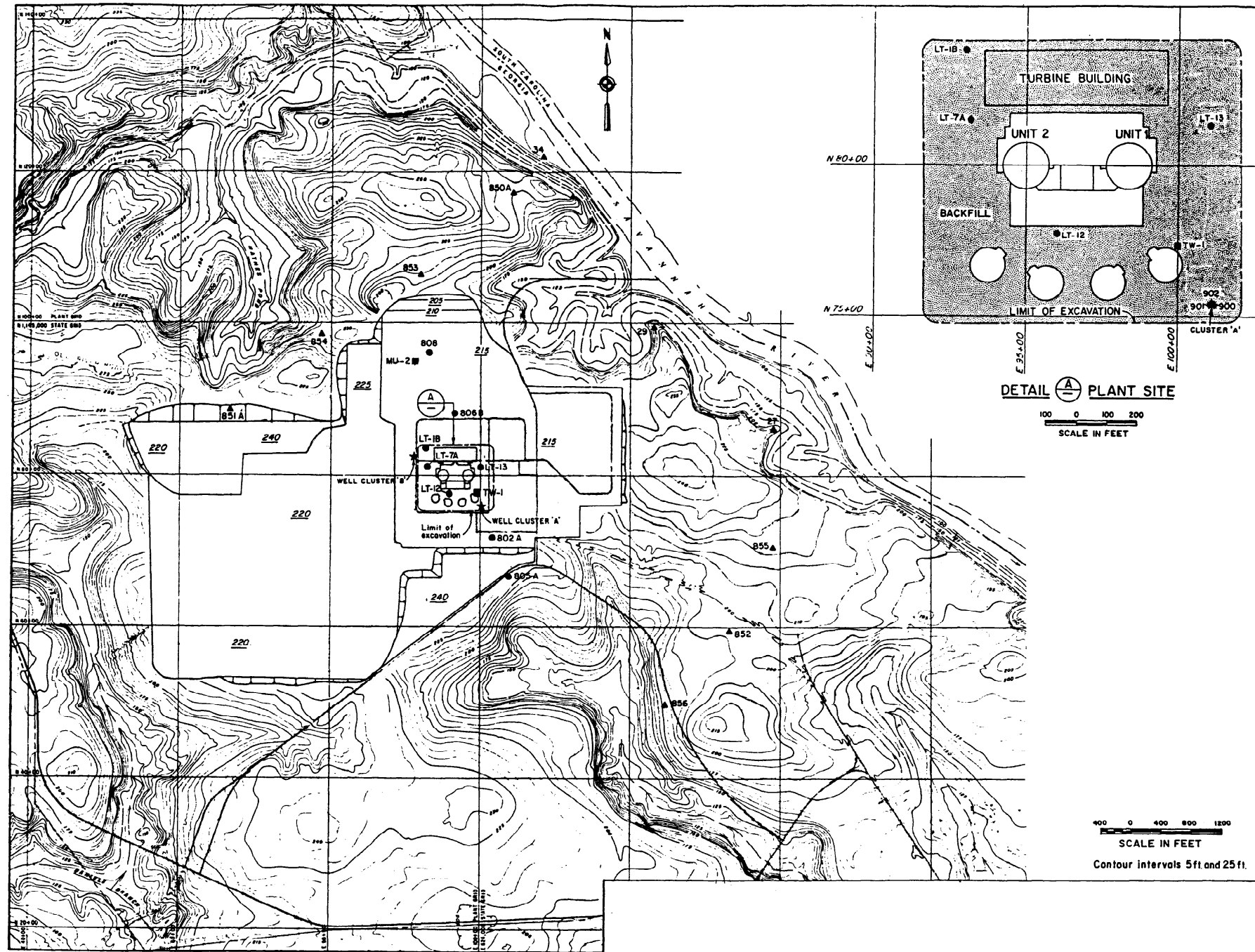
HANCOCK LANDING PROJECT
TOPOGRAPHIC MAP PREPARED BY
CLYDE N. ELDRIDGE AERIAL
SURVEYS, FEB. 26/71.

 SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA
GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

OBSERVATION WELLS
NOVEMBER 1985

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

SCALE: NONE	DRAWING NO.	REV
JOB NO. 10604	AX6DD333	0



EXPLANATION

- 800 ● WATER TABLE AQUIFER
- 900 ◆ MARL
- 855 ▲ TERTIARY AQUIFER
- MU-2 ■ CRETACEOUS AQUIFER

NOTES:

THE WELLS SHOWN ARE USED FOR THE GROUND WATER MONITORING PROGRAM INITIATED DURING THE SUMMER OF 1985

SITE GRADING GENERALIZED FROM DWG. NO. CXZD46V003 WITHIN GRADED AREA, APPROXIMATE ELEVATIONS SHOWN UNDERLINED: 215

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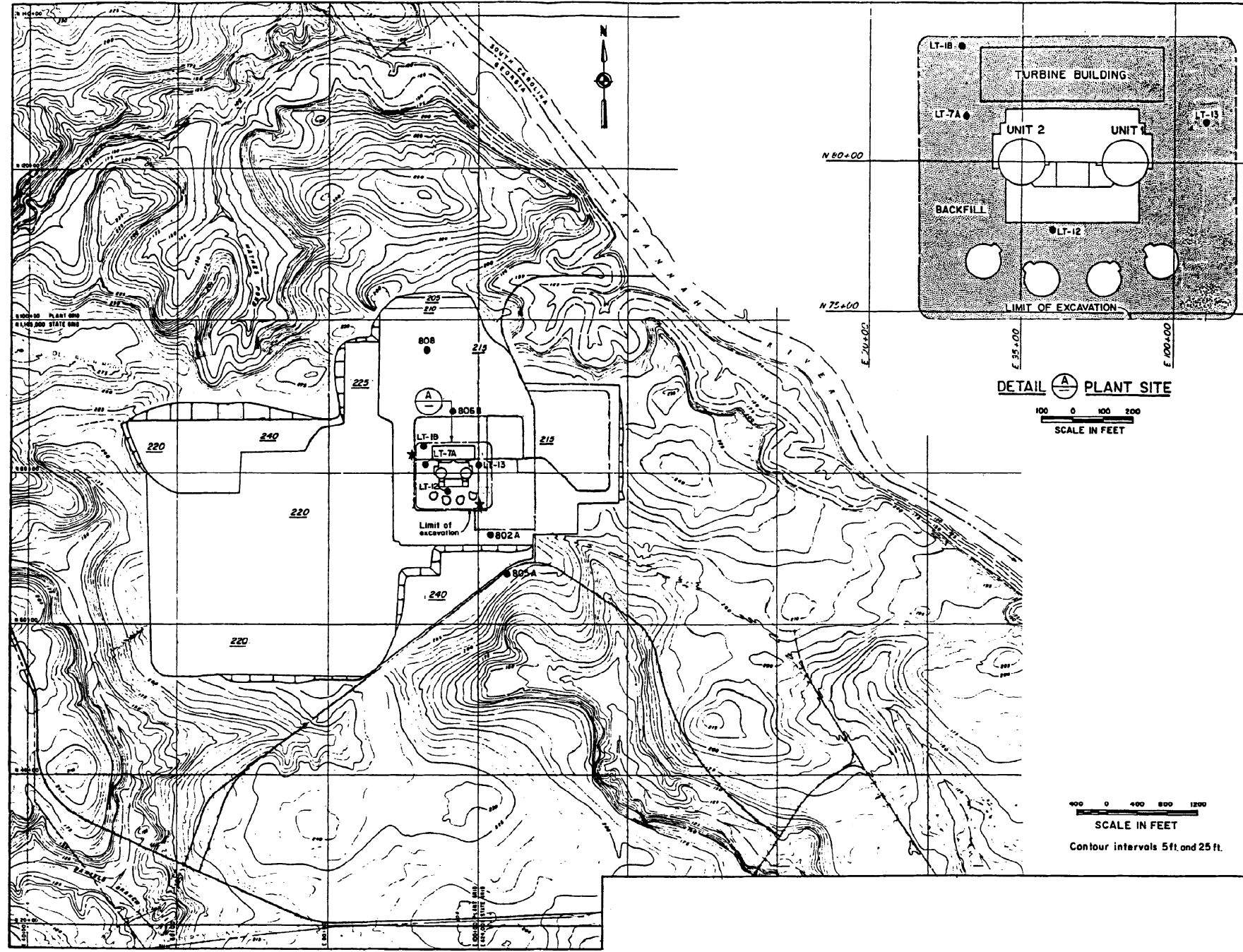
HANCOCK LANDING PROJECT
TOPOGRAPHIC MAP PREPARED BY
CLYDE N. ELDRIDGE AERIAL
SURVEYS, FEB. 26/71.

SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA
GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

OBSERVATION WELLS
1993

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

SCALE: NONE	DRAWING NO.	REV
JOB NO. 10604	AX6DD334	0



EXPLANATION

800 • WATER TABLE AQUIFER

NOTES:

THE WELLS SHOWN ARE USED FOR THE GROUND WATER MONITORING PROGRAM INITIATED DURING THE SUMMER OF 1985

SITE GRADING GENERALIZED FROM DWG. NO. CXZD46V003 WITHIN GRADED AREA. APPROXIMATE ELEVATIONS SHOWN UNDERLINED: 215

REFERENCE:

HANCOCK LANDING PROJECT
TOPOGRAPHIC MAP PREPARED BY
CLYDE N. ELDRIDGE AERIAL
SURVEYS, FEB. 25/71.

 SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

OBSERVATION WELLS
1995

SCALE: NONE

DRAWING NO.

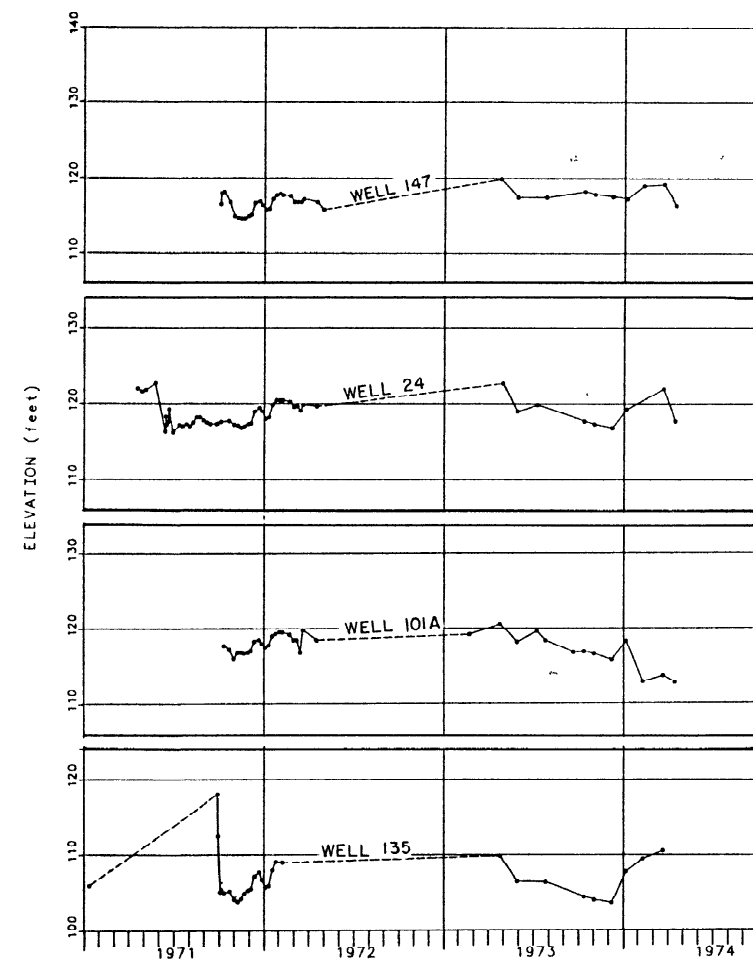
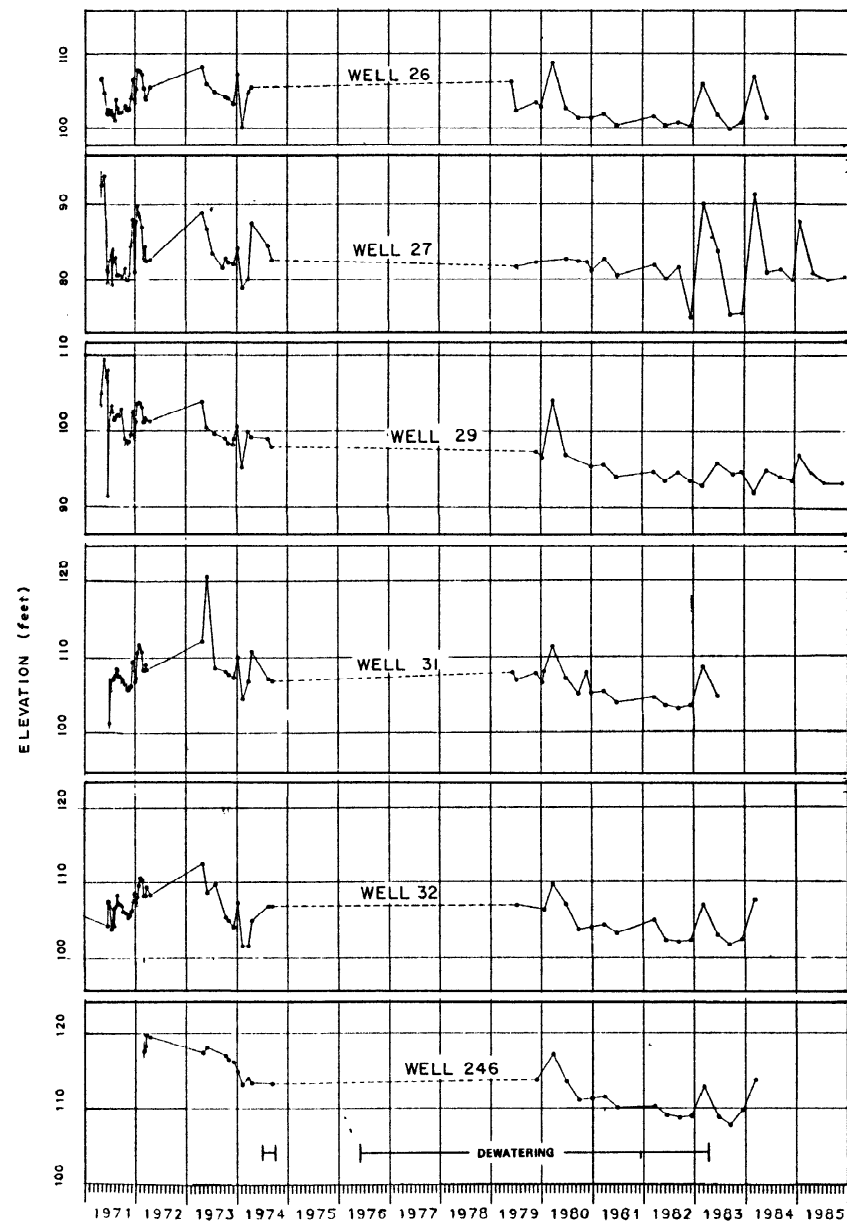
REV

JOB NO. 10604

AX6DD335


0

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

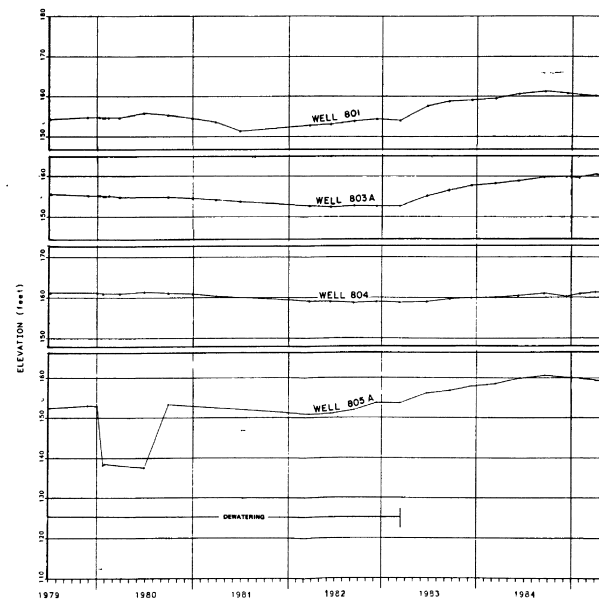
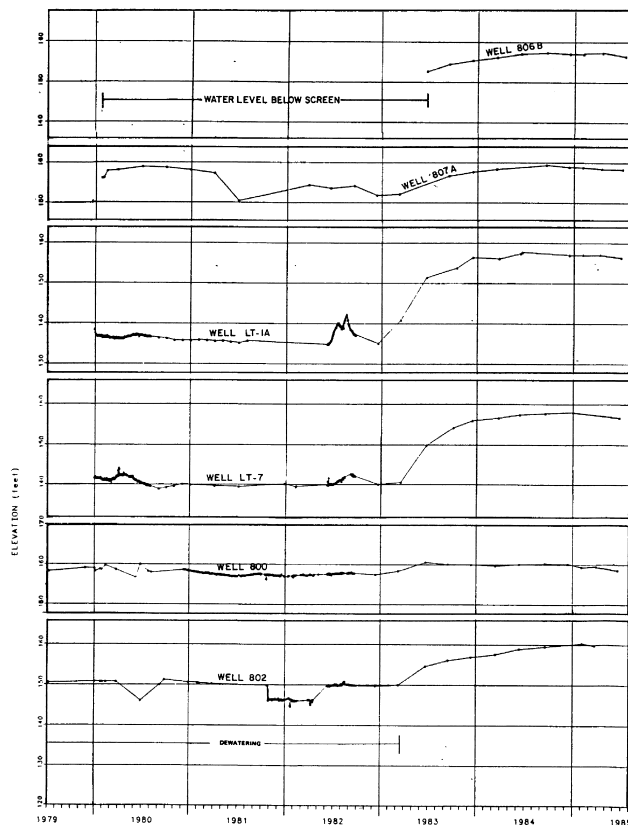
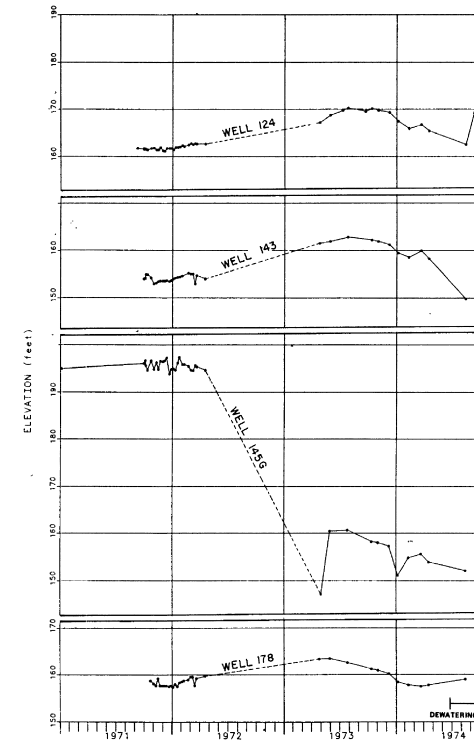
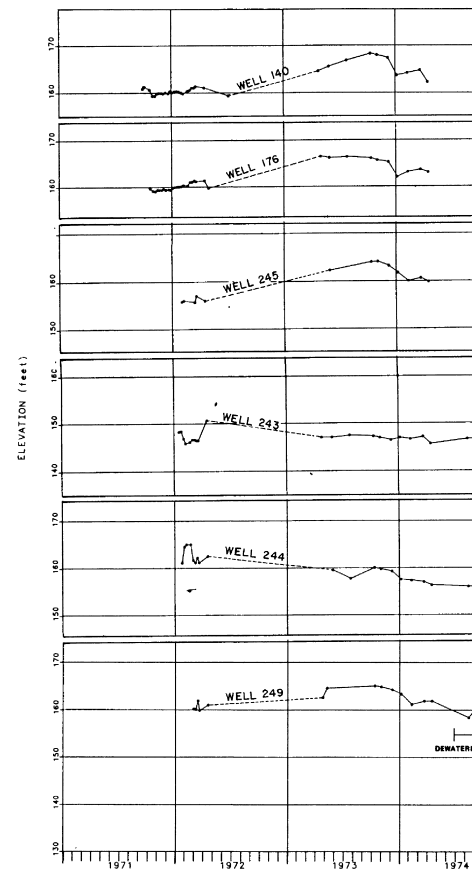
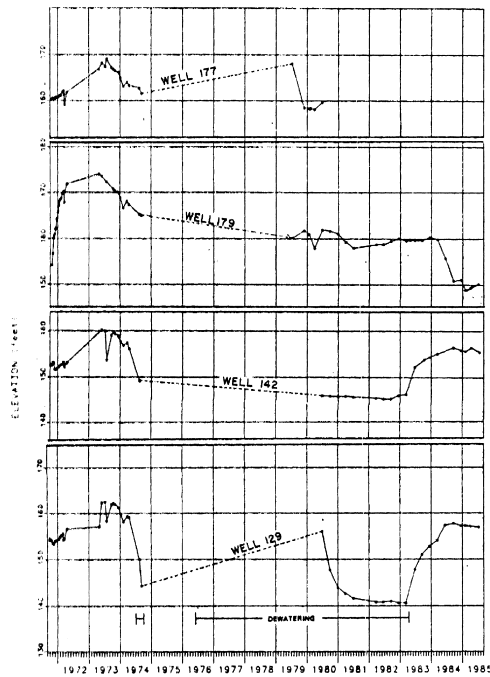


SEE DRAWING AX6DD323 FOR WELL LOCATIONS

TABULATION OF WATER LEVELS WITH NOTES ON MEASUREMENTS AND LEVEL FLUCTUATIONS ARE IN "GROUND WATER SUPPLEMENT", MARCH 1985 (REFERENCE 10).

 SOUTHERN COMPANY SERVICES, INC. BIRMINGHAM, ALABAMA		
GEORGIA POWER COMPANY ALVIN W. VOGTLE NUCLEAR PLANT		
WELL HYDROGRAPHS TERTIARY AQUIFER		
SCALE: NONE	DRAWING NO.	REV
JOB NO. 10604	AX6DD336	0

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



SEE DRAWING AX6D323 FOR WELL LOCATIONS.

TABULATIONS OF WATER LEVELS WITH NOTES ON MEASUREMENTS AND LEVEL FLUCTUATIONS ARE IN "GROUND WATER SUPPLEMENT", MARCH 1985 (UPSR SECTION 2.4.12 REFERENCE 10).

SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA
GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT
WELL HYDROGRAPHS
WATER TABLE AQUIFER

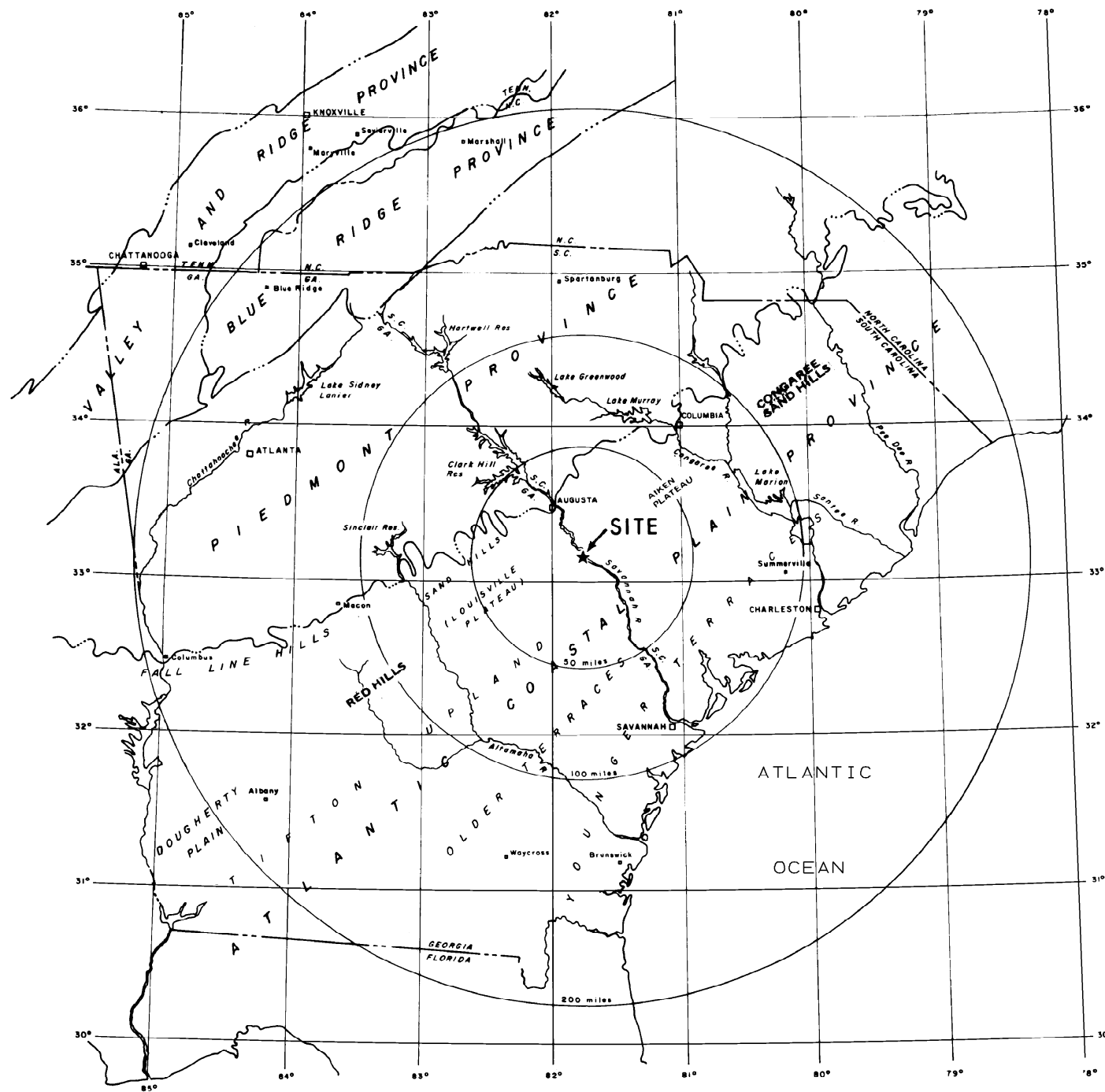
SCALE: NONE	DRAWING NO.	REV.
	AX6D337	0

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ISSUED PER MEA 98-VA004	9-8-78	GS	RBN	CBH	WFP
NO.	DATE	OR	CHK	APPV	DTL
REVISED					

SIZE E 34x44

CAD NAME
AX6D333



EXPLANATION:

----- Tectonic Province Boundary



10 0 10 20 30 40 50
SCALE IN MILES

REFERENCE

UFSAR SECTION 2.5.1
REFERENCE 1, 58-60



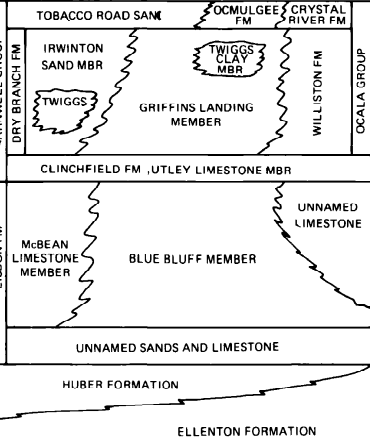
SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

REGIONAL GENERALIZED
PHYSIOGRAPHICAL MAP


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

SCALE: NONE	DRAWING NO.	REV
JOB NO. 10604	AX6DD338	0

ERA	SYSTEM	SERIES	AGE	UNIT	DESCRIPTION	
CENOZOIC	QUATERNARY	PLEISTOCENE & RECENT		ALLUVIUM	ALLUVIAL FILL AND TERRACE DEPOSITS IN STREAM VALLEYS. CONSISTING OF TAN TO GRAY SAND, CLAY, SILT AND GRAVEL.	
			MIOCENE	EARLY	HAWTHORN (ALTAMAHA) FORMATION	POORLY SORTED CLAYEY SAND AND GRAVEL, TAN, RED AND PURPLE IN COLOR. CONTAINS SOME CROSS-BEDDED STRINGERS OF LIMONITE-GOETHITE PEBBLES
			OLIGOCENE	LATE	SUWANNEE LIMESTONE	LIGHT-GRAY TO CREAM COLOR. FOSSILIFEROUS LIMESTONE. BASAL LAYER IS SANDY
	TERTIARY	Eocene	LATE			TOBACCO ROAD SAND. FINE-GRAINED AND WELL SORTED TO COARSE AND POORLY-SORTED SAND. OCMULGEE FM. FORAMINIFERAL MARL AND LIMESTONE. CRYSTAL RIVER FM. COARSE, FOSSILIFEROUS LIMESTONE. IRWINTON SAND MBR. FINE-TO MEDIUM-GRAINED QUARTZ SAND. GRIFFINS LANDING MBR. WELL-SORTED CALCAREOUS SAND. TWIGGS CLAY MBR. GREENISH, BLuish GRAY, SILTY SAND. WILLISTON FM. NON FOSSILIFEROUS SANDY LIMESTONE. UTLEY LIMESTONE MBR. SANDY, GLAUCONITIC, FOSSILIFEROUS LIMESTONE.
	TERTIARY	Eocene	MIDDLE			BLUE BLUFF MBR. GREENISH TO BLuish-GRAY MARL. MCBEAN LIMESTONE MBR. SOFT, GRAY, SANDY LIMESTONE WITH SOME SHELL FRAGMENTS. UNNAMED LIMESTONE. GRAY, FOSSILIFEROUS LIMESTONE. UNNAMED SAND AND LIMESTONE. QUARTZ SAND, CALCAREOUS SAND AND FOSSILIFEROUS LIMESTONE.
	TERTIARY	PALEOCENE	EARLY			HUBER FM. MULTI-COLORED CLAY. CONTAINS BEDS OF SANDY KAOLIN TO COARSE BEDDED SAND. ELLENTON FM. DARK-GRAY TO BLACK SANDY LIGNITIC MICACEOUS CLAY, MEDIUM-TO DARK-GRAY COARSE SAND.
MESOZOIC	CRETACEOUS	LATE			TAN, BUFF, LIGHT-GRAY AND WHITE CROSS-BEDDED MICACEOUS QUARTZITE AND ARKOSIC SAND AND GRAVEL, INTERBEDDED WITH RED, BROWN AND PURPLE CLAY AND WHITE KAOLIN	
					GRAY, DARK-BROWN AND BRICK RED SANDSTONE, SILTSTONE AND CLAYSTONE WITH SECTIONS OF CONGLOMERATE AND FAN-GLOMERATE	
PRECAMBRIAN & PALEOZOIC	TRIASSIC	LATE				
PRECAMBRIAN & PALEOZOIC						
PRECAMBRIAN & PALEOZOIC						
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
NOTE :
FORMATION AGES ARE GIVEN ON DRAWING AX6DD339 AND IN UFSAR SECTION 2.5.1 TEXT

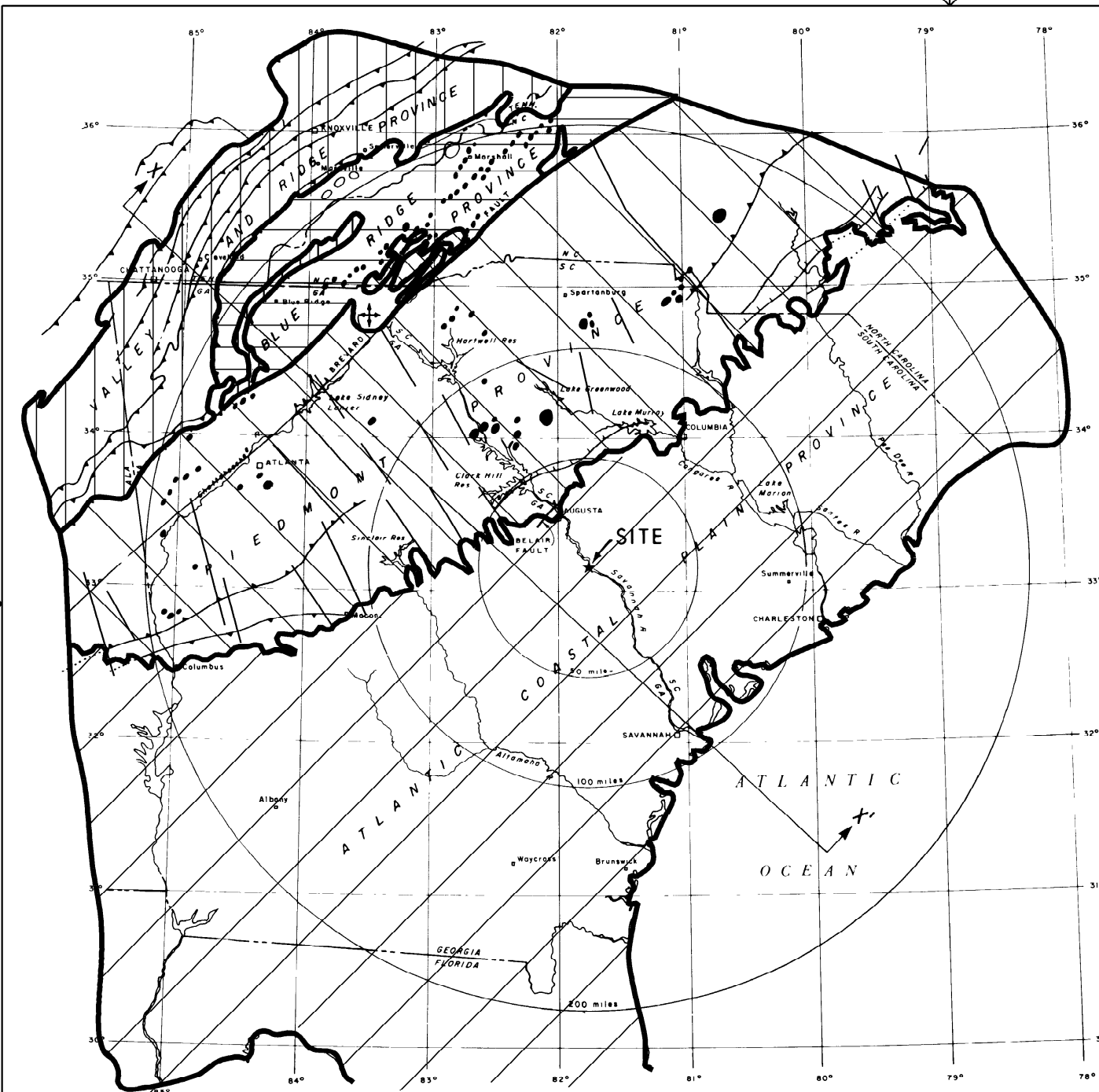
REFERENCES :
UFSAR SECTION 2.5.1 REF. 6,28,36-39 AND 34

SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

LITHOLOGIC CHART

								SCALE: NONE	DRAWING NO.	REV
	ISSUED PER REA 96-VAA054	9-30-98	GS	RBH	CBH	WFP				
NO.	REVISIONS	DATE	DR	CHK	APPV	DTL		JOB NO. 10604	AX6DD340	0



EXPLANATION

X

X'

Cross section

Thrust fault

Normal fault (hachures on downthrown side)

Strike slip fault (dashed where inferred)

Buried fault

Dome

Intrusive diabase dikes

Ultramafic rocks

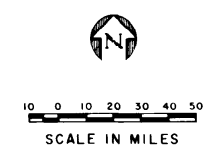
ATLANTIC COASTAL PLAIN PROVINCE
Sedimentary rocks of Mesozoic and Cenozoic ages

VALLEY AND RIDGE PROVINCE
Chiefly sedimentary rocks of Paleozoic age

PIEDMONT PROVINCE
Chiefly igneous and metamorphic assemblages of late Precambrian and Paleozoic age includes sedimentary and volcanic rocks of Triassic age

BLUE RIDGE PROVINCE
Chiefly metamorphic rocks of Precambrian age with some miogeosynclinal deposits of Paleozoic age

REFERENCE
Base map and geology taken from U S G S map compiled by Philip B King, 1977 (59)



SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

REGIONAL GEOLOGIC MAP

SCALE: NONE

DRAWING NO.

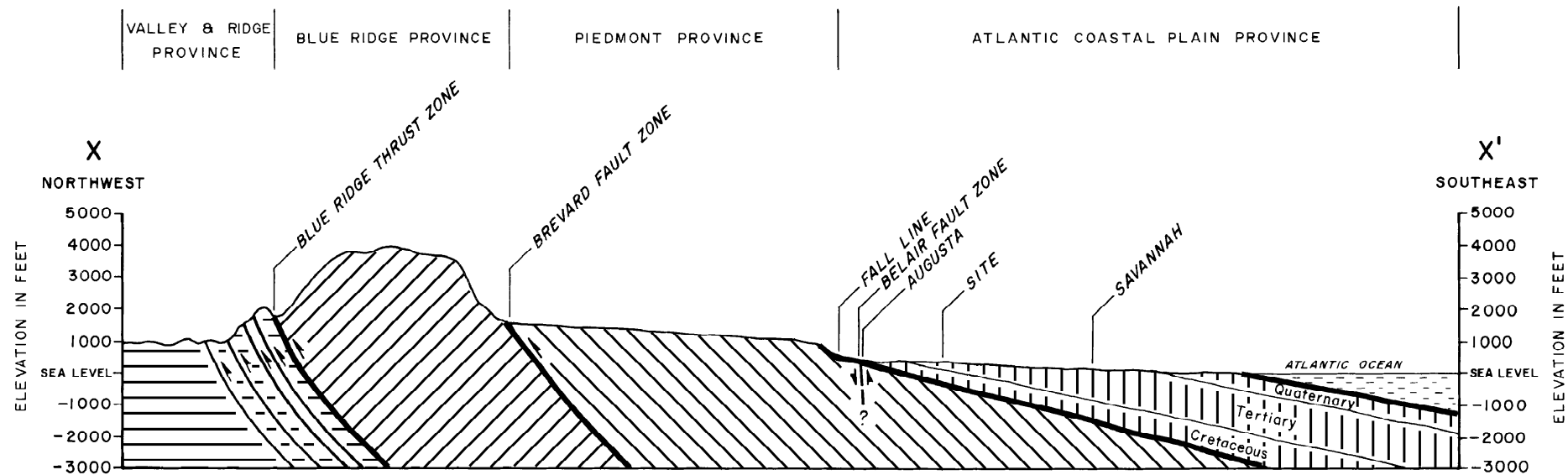
REV

JOB NO. 10604

AX6DD341

0

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

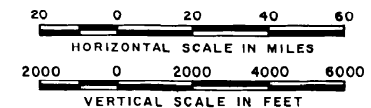



EXPLANATION

- ATLANTIC COASTAL PLAIN PROVINCE
Sedimentary rocks of Mesozoic and Cenozoic ages
- VALLEY AND RIDGE PROVINCE
Chiefly sedimentary rocks of Paleozoic age
- PIEDMONT PROVINCE
Chiefly igneous and metamorphic assemblages of late Precambrian and Paleozoic age; includes sedimentary and volcanic rocks of Triassic age
- BLUE RIDGE PROVINCE
Chiefly metamorphic rocks of Precambrian age with some miogeosynclinal deposits of Paleozoic age

NOTE:

For location of geologic section see figure 2.5.1-8

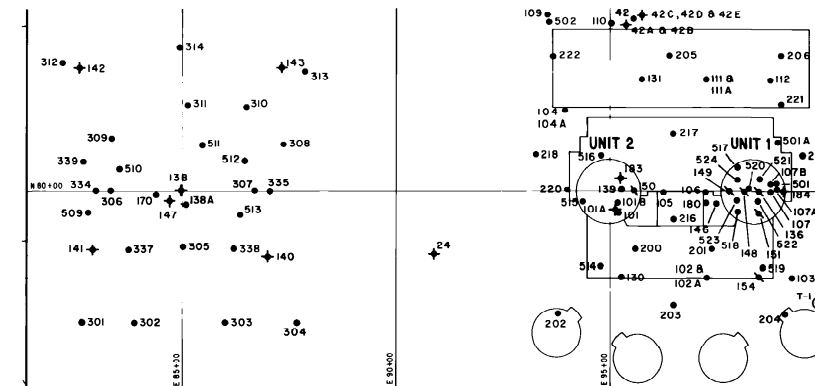
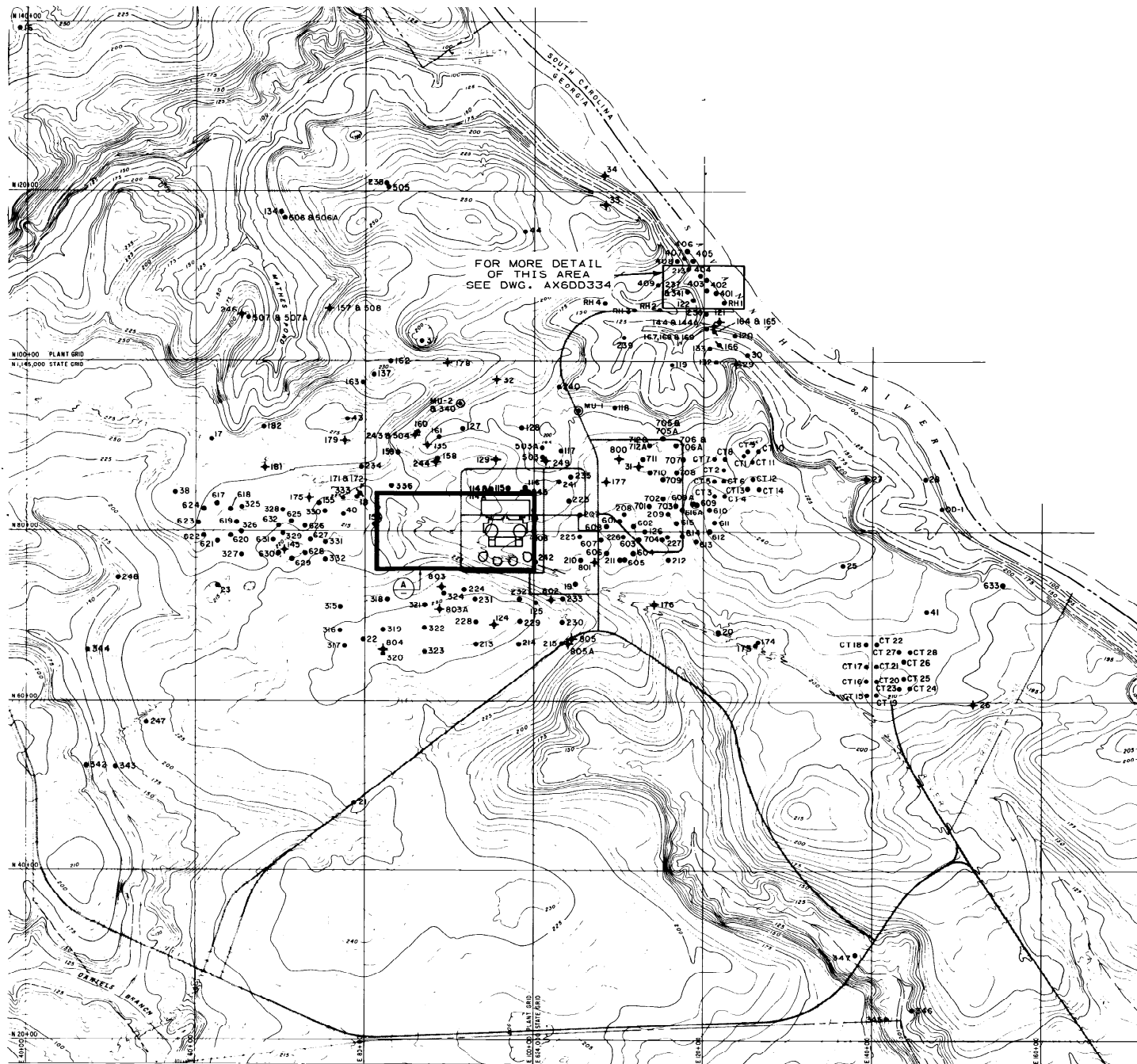


 SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

GENERALIZED
GEOLOGIC SECTION

NO.	ISSUED PER REA 96-VAA054	9-30-98	GS	RBH	CBH	WFP	SCALE: NONE	DRAWING NO.	REV
							JOB NO. 10604	AX6DD342	0



DETAIL (A) PLANT SITE

100 0 100 200
SCALE IN FEET

EXPLANATION

- 17 Exploration hole
- ▲ 151 Seismic survey hole
- ✦ 31 Ground water observation hole
- ⊙ T-1 Make-up well




REFERENCE:

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

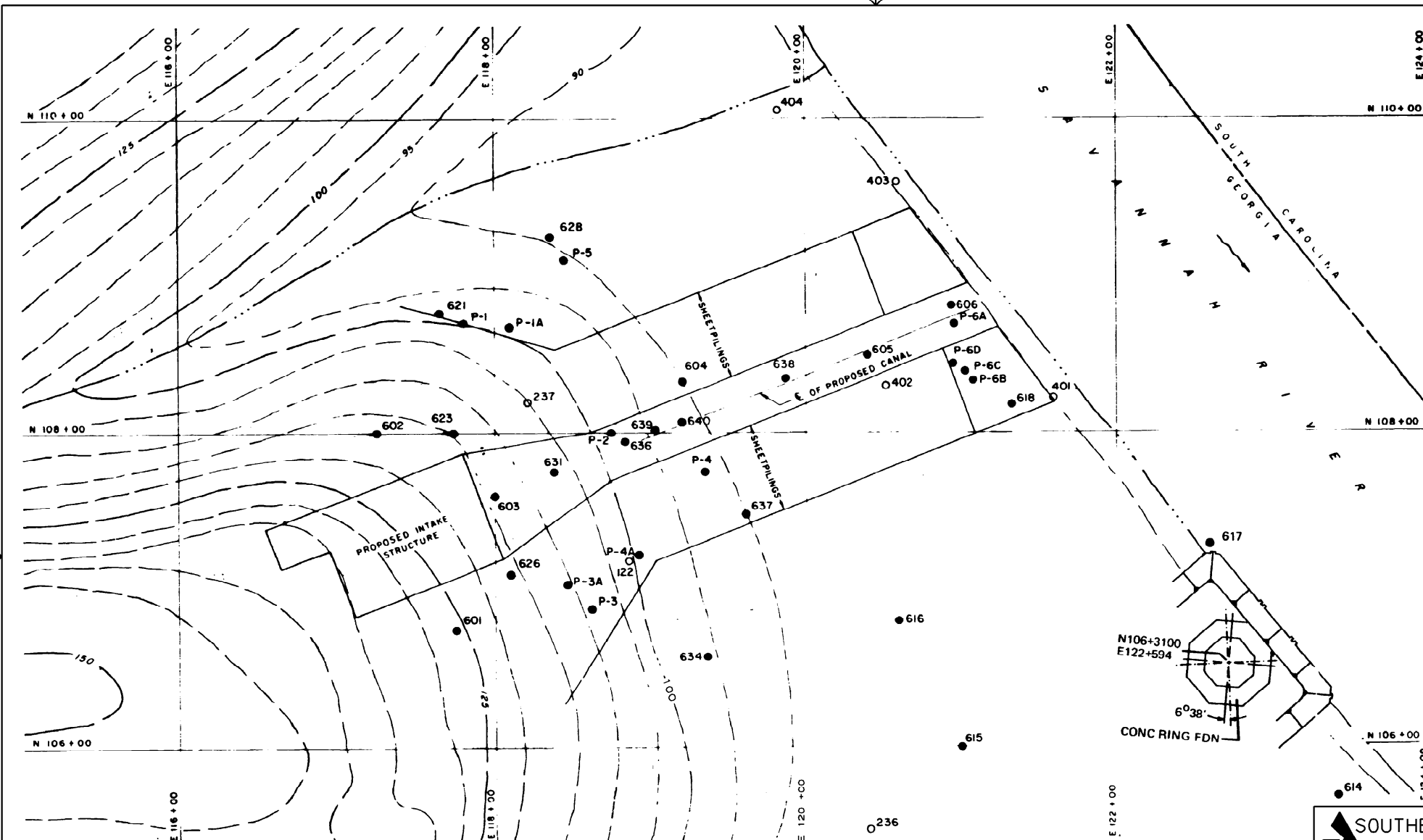
400 0 400 800 1200
SCALE IN FEET

Contour intervals 5 ft. and 25 ft.

 SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA
GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

SITE MAP

								SCALE: NONE	DRAWING NO.	REV
	ISSUED PER REA 96-VAA054	9-30-98	GS	RBH	CBH	WFP				
NO.	REVISIONS	DATE	DR	CHK	APPV	DTL		JOB NO. 10604	AX6DD343	0



- EXPLANATION**
- 404 Previously drilled boring.
 - 636 River facilities exploration hole
 - P-1 Exploration hole for permeability testing
 - Existing contours based on aerial photo survey prior to site grading operation

REFERENCE:

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



50 0 50 100
SCALE IN FEET
CONTOUR INTERVAL 5 FEET

SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

**LOCATION OF TEST HOLES
AT RIVER FACILITY**

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

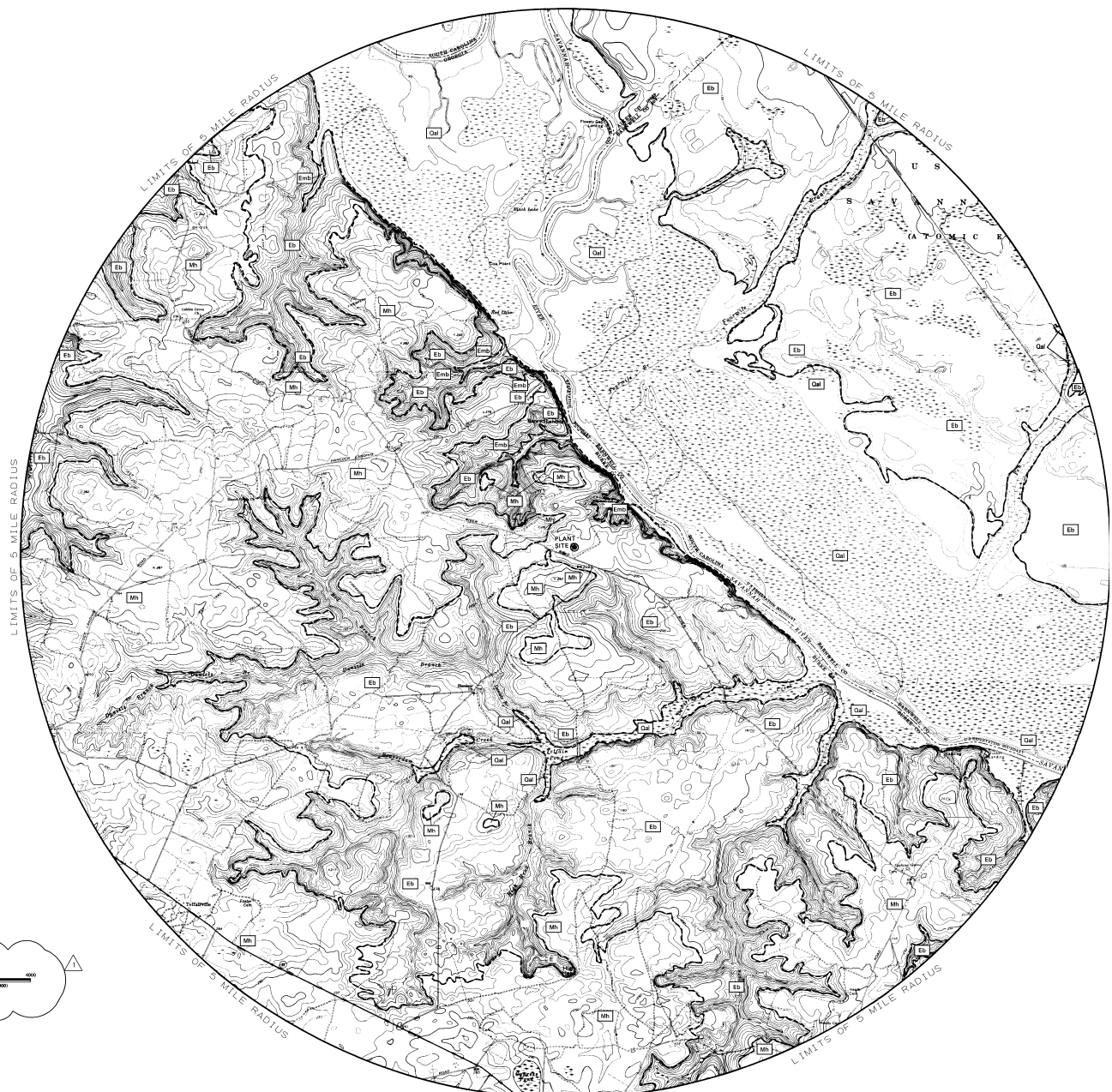
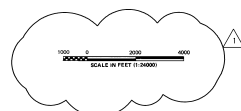
SCALE: NONE	DRAWING NO.	REV
JOB NO. 10604	AX6DD344	0



EXPLANATION

- Qa1 QUATERNARY ALLUVIUM; SILTS, SANDS, AND STREAM GRAVEL.
- Mh HAWTHORN FORMATION: TAN, RED, YELLOW, AND PURPLE SANDY CLAY, SAND AND INTERBEDDED LENSES OF GRAVEL.
- Eb BARNWELL GROUP: RED, BROWN, YELLOW AND WHITE SAND AND SANDY CLAY, WITH GRAY CLAYSTONE AND BASAL LIMESTONE
- Emb LISBON FORMATION: GREENISH-GRAY TO GRAY FOSSILIFEROUS MARL AND INTERCALATED LIMESTONE UNDERLAIN BY GLAUCONITIC QUARZOSE SAND

----- 1 GEOLOGIC CONTACT, APPROXIMATE OR CONCEALED



SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

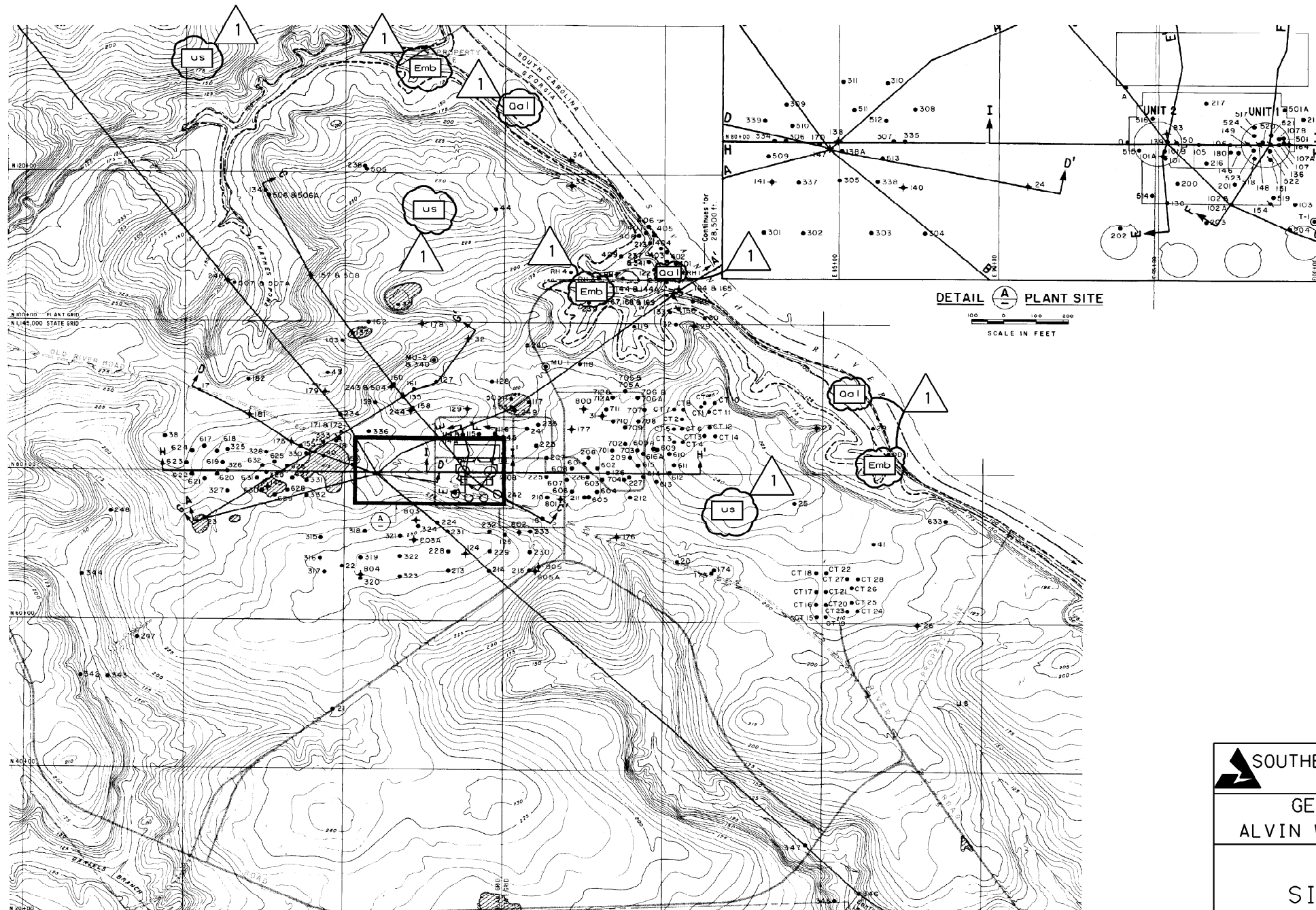
LOCAL GEOLOGIC MAP

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NO.	REVISIONS	DATE	CHK	APPV	DTL
1	REVISED PER REA 96-VAA054	10-20-94	GS	RBH	WFP
2	ISSUED PER REA 96-VAA054				

SCALE: NONE	DRAWING NO.	REV.
	AX6DD345	1
JOB NO. 10604		

CAD NAME
AX6DD345



DETAIL A PLANT SITE
SCALE IN FEET

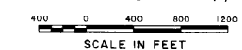
EXPLANATION

- 17 Exploration hole
- 151 Seismic survey hole
- 31 Ground water observation hole
- T-1 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 Bernwell Group)
- Emb BEARING UNIT: (Blue Bluff Marl) Hard gray: green true mark, fossiliferous and concretionary
- A-A Geologic contact, approximated
- A-A Geologic section
- Surface depression




REFERENCE:

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






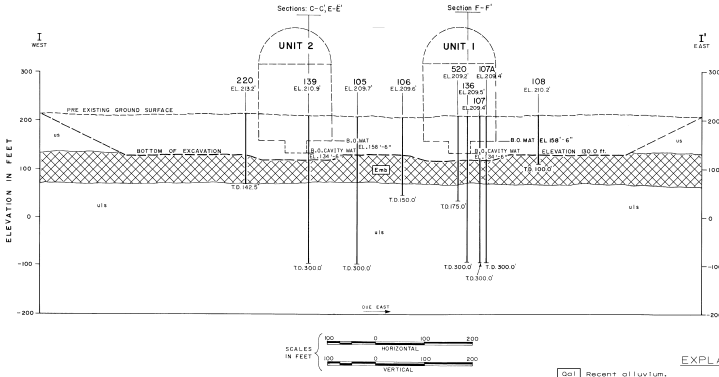
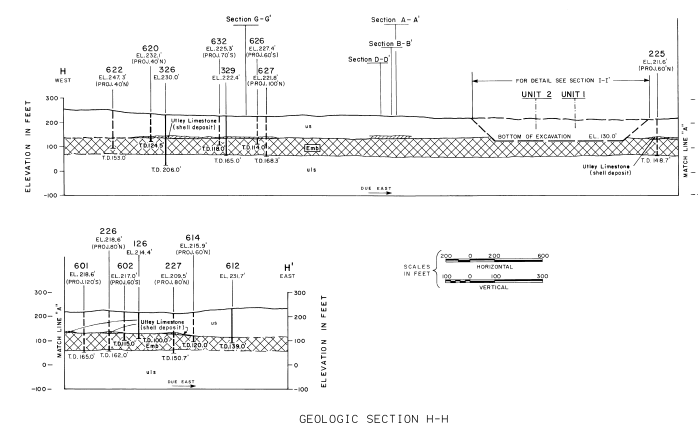
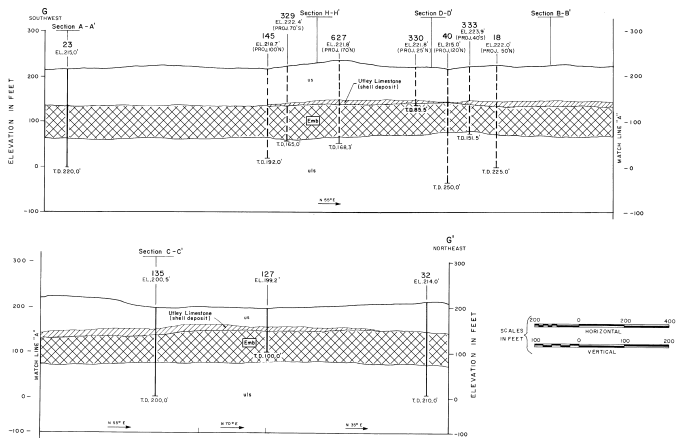
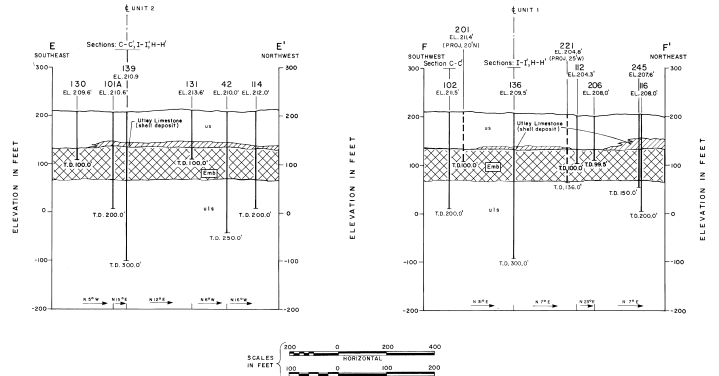
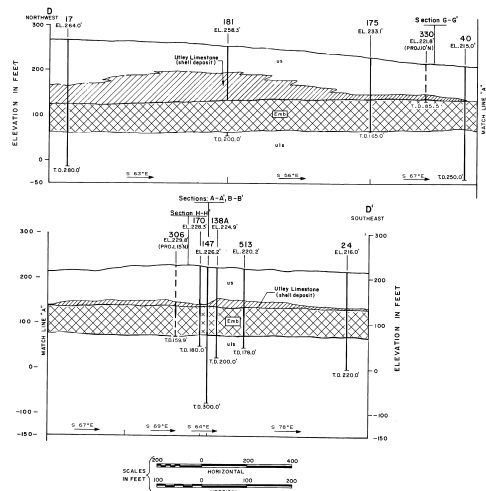
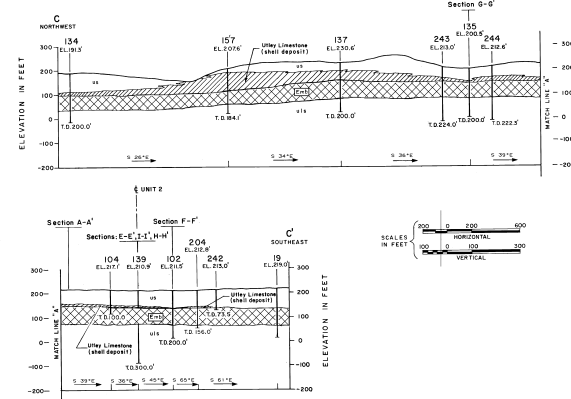
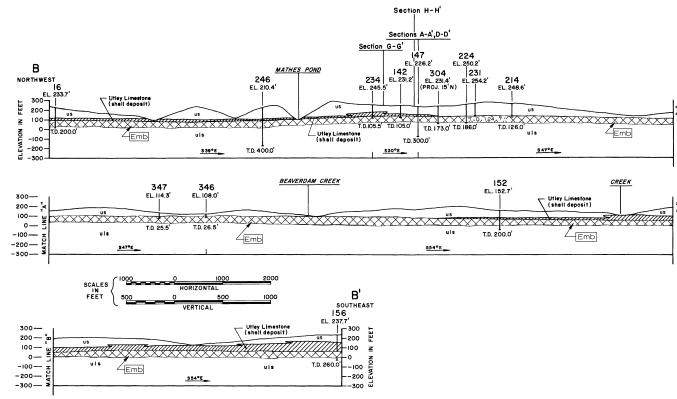
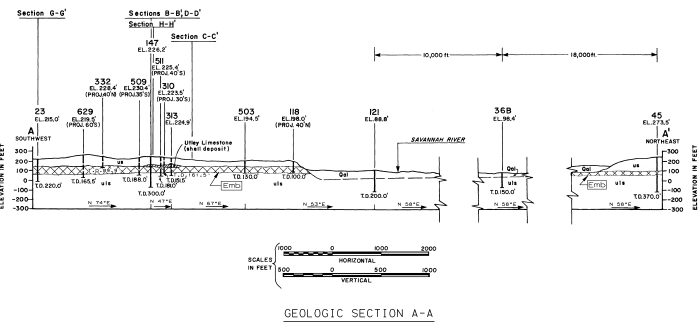
Contour intervals 5 ft. and 25 ft.

**SOUTHERN COMPANY SERVICES, INC.**
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

SITE GEOLOGIC MAP

	REVISED PER REA 96-VAA054	10-20-98	GS	RBH	WFP		SCALE: NONE	DRAWING NO.	REV
	ISSUED PER REA 96-VAA054	SEE MICROFILM FOR SIGNATURES						AX6DD351	1
NO.	REVISIONS	DATE	DR	CHK	APPV	DTL	JOB NO. 10604		



Geologic Section G-G

UNIT	THICKNESS	DESCRIPTION
UNIT 1	<40'	UPPER SAND - TOBACCO ROAD SAND AND TAWHITTOSHO. Predominantly red with zones of yellow, orange, lavender and purple. Fine to medium grained, well sorted with minor silt and traces of clay. Subangular to subrounded.
UNIT 2	80'	BEARWELL SAND - BEARWELL GROUP. Predominantly tan to white fine to medium grained sand, locally fossiliferous, interbedded with indurated red deposits. Below EL. 165, extensively cross-bedded in lower portion of the unit. Locally with continuous clay seams near the top of the unit. Two continuous mass horizons are described in the text.
UNIT 3	0-35'	TWIGGS CLAY - (BEARWELL GROUP) Dark to light gray, locally fossiliferous, silty to sandy, calcareous clay, upper 2 to 3' is weathered to greenish-yellow color.
UNIT 4	0-25'	UTLEY Limestone - (BEARWELL GROUP) Greenish-yellow to white, fine, fossiliferous, silty limestone, locally massive, varies in thickness, some solution cavities locally. The unit includes a highly fossiliferous silty to dark gray calcareous clay.
UNIT 5	70'	LISON FORMATION - Greenish-gray to gray fossiliferous mud with interbedded lenses of limestone, marginal units. A through J described in text vary in fossil content, degree of induration, bedding, thickness and presence of nodules.

Stratigraphic Column-Power Block Excavation

EXPLANATION	
Recent alluvium.	
UPPER SANDS: Undifferentiated unconsolidated, red-brown, bed by yellow, silty sand. Occasionally type locally of base. (Limestone (shell deposit)) cross hatched. (Barnwell Group-Moatman Formation) (Lison Formation-Blue Bluff Marl)	
BEARING UNIT: Hard, gray-green, true marl. (Fossiliferous and concretionary. (Lison Formation-Blue Bluff Marl))	
LOWER SANDS: Undifferentiated sand, silt and clay. (Lower Lison Formation, Lison and Clifton Formation)	

SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA
GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT







Geologic Sections

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
ISSUED PER	REVISED	DATE	BY	CHK	APPV	DTL
96-VA0054						


SCALE	DRAWING NO.	REV.
NONE	AX60D352	0

EXPLANATION

-  CLAY SEAM
-  LOCAL SEEPAGE-VARIES FROM OBSERVED DAMPNESS TO MODERATE TRICKLE
-  SEEPAGE ZONE-SEEPAGE OCCURING OVER A LARGER AREA THAN 
-  SHELL FRAGMENTS
-  CS-13 CORE HOLE FOR SAMPLING AND TESTING MARL

EOCENE

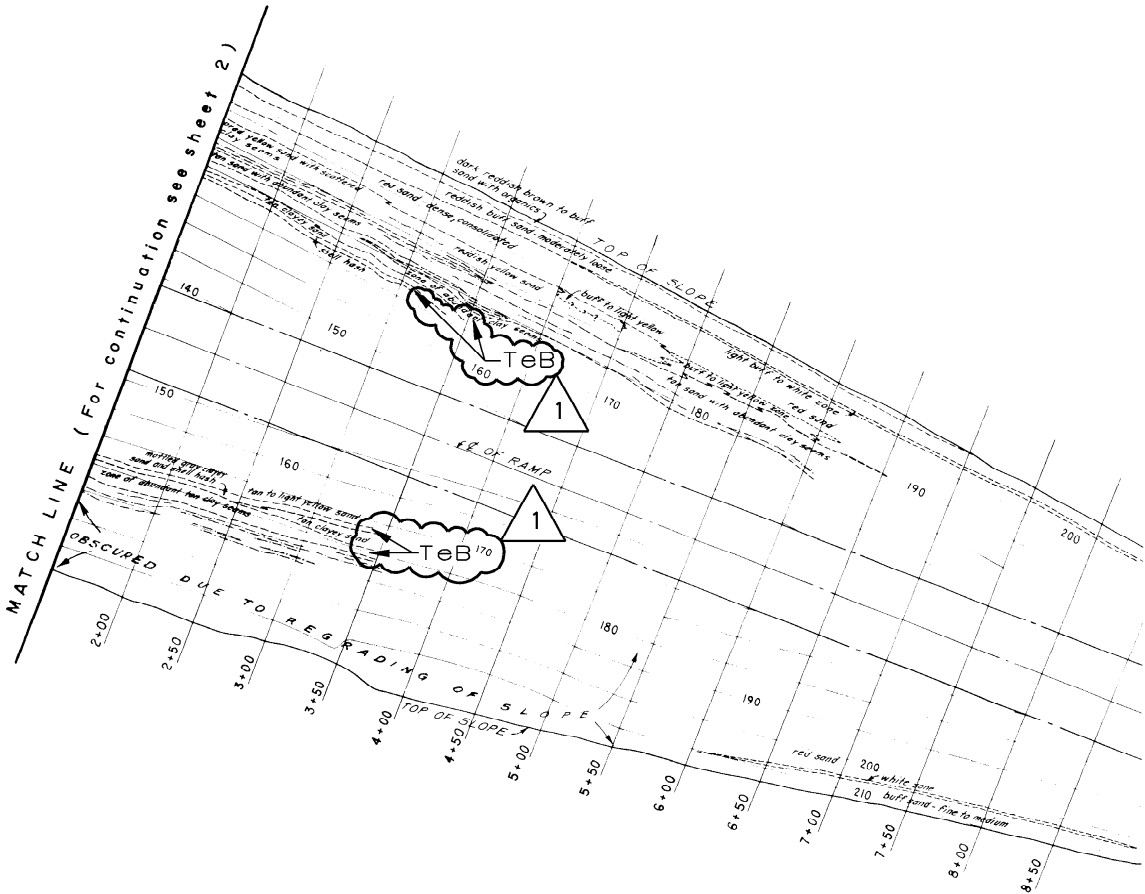
 BARNWELL GROUP

 LIBSON FORMATION

SEE DRAWING AX6DD352 AND TEXT FOR DETAILS OF STRATIGRAPHY

NOTES:





- 1.SIDE SLOPES ARE 2 HORIZONTAL TO 1 VERTICAL.
- 2.ALL ZONES MAPPED CONSIST OF SAND EXCEPT WHERE OTHERWISE NOTED. SEE DRAWING AX6DD352 AND TEXT FOR DETAILED DESCRIPTIONS OF STRATIGRAPHY. FOR EXAMPLE "YELLOW" REFERS TO YELLOW SAND.
- 3.BOTTOM OF EXCAVATION=130.00 ft., EXCEPT AUXILLARY BUILDING WHICH IS ELEV.108.75 ft.
- 4.THE APPARENT IRREGULARITY OF THE UPPER CONTACT OF THE LIBSON FORMATION REFLECTS THE IRREGULAR CONFIGURATION OF THE EXCAVATION AT THE TIME OF MAPPING AND IS NOT RELATED TO STRUCTURE IN THE MARL. SEE DRAWINGS AX6DD372 AND AX6DD373 FOR DETAILED SURVEY INFORMATION ON THIS CONTACT.



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BIRMINGHAM, ALABAMA

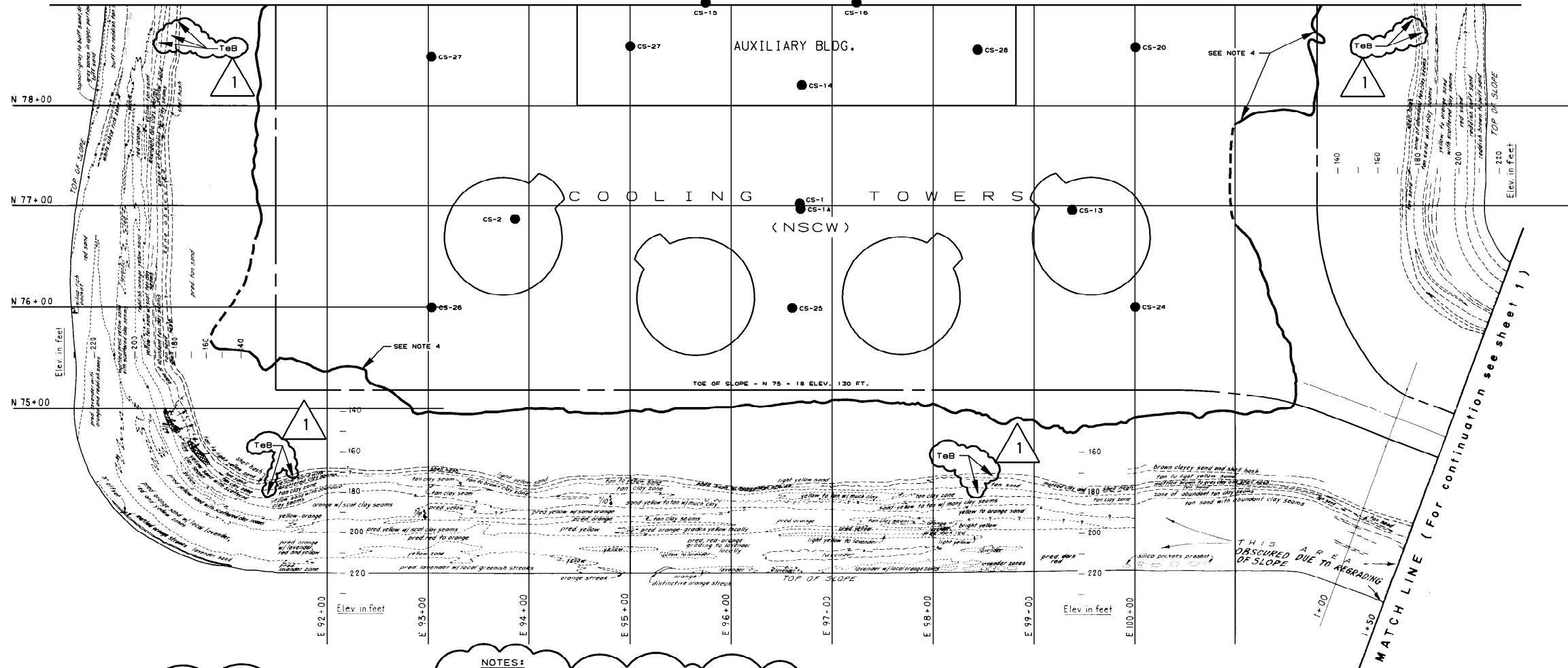
GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

GEOLOGIC MAP
POWER BLOCK AREA

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

SCALE: NONE	DRAWING NO.	REV
JOB NO. 10604	AX6DD360	1

MATCH LINE (For continuation see sheet 3)



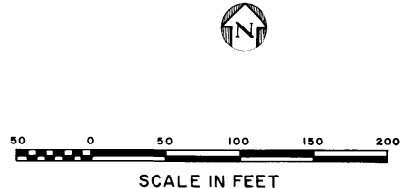
EXPLANATION

NOTES:

1. SIDE SLOPES ARE 2 HORIZONTAL TO 1 VERTICAL.
2. ALL ZONES MAPPED CONSIST OF SAND EXCEPT WHERE OTHERWISE NOTED. SEE DRAWING AX6DD352 AND TEXT FOR DETAILED DESCRIPTIONS OF STRATIGRAPHY. FOR EXAMPLE "YELLOW" REFERS TO YELLOW SAND.
3. BOTTOM OF EXCAVATION=130.00 ft., EXCEPT AUXILIARY BUILDING WHICH IS ELEV. 108.75 ft.
4. THE APPARENT IRREGULARITY OF THE UPPER CONTACT OF THE LIBSON FORMATION REFLECTS THE IRREGULAR CONFIGURATION OF THE EXCAVATION AT THE TIME OF MAPPING AND IS NOT RELATED TO STRUCTURE IN THE MARL. SEE DRAWINGS AX6DD372 AND AX6DD373 FOR DETAILED SURVEY INFORMATION ON THIS CONTACT.

- CLAY SEAM
- LOCAL SEEPAGE-VARIES FROM OBSERVED DAMPNES TO MODERATE TRICKLE
- SEEPAGE ZONE-SEEPAGE OCCURING OVER A LARGER AREA THAN
- SHELL FRAGMENTS
- CS-13 CORE HOLE FOR SAMPLING AND TESTING MARL
- BARNWELL GROUP
- LIBSON FORMATION

SEE DRAWING AX6DD352 AND TEXT FOR DETAILS OF STRATIGRAPHY



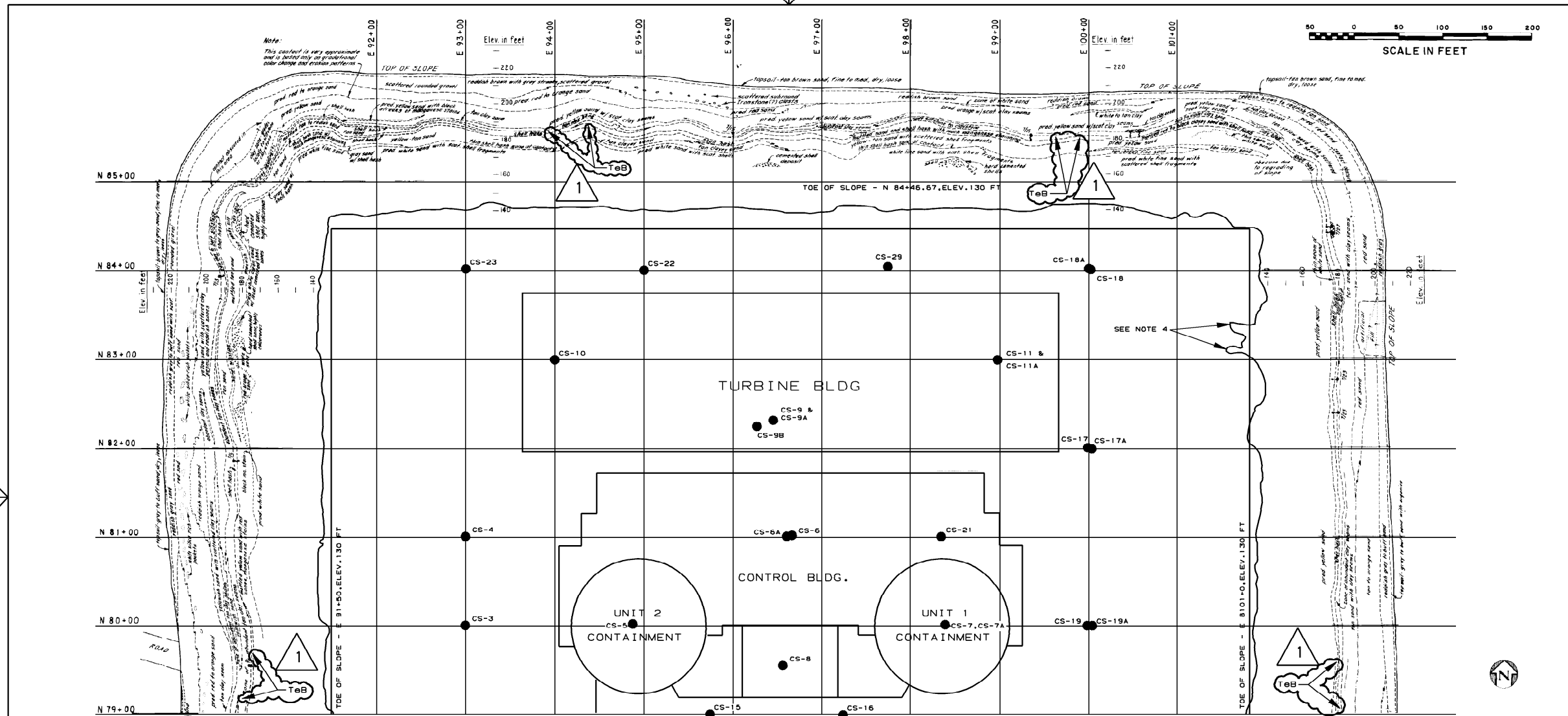
SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

GEOLOGIC MAP
POWER BLOCK AREA

SCALE: NONE	DRAWING NO.	REV
JOB NO. 10604	AX6DD361	1

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



EXPLANATION

CLAY SEAM

LOCAL SEEPAGE-VARIES FROM OBSERVED DAMPNESSTO MODERATE TRICKLE

SEEPAGE ZONE-SEEPAGE OCCURING OVER A LARGER AREA THAN

SHELL FRAGMENTS

CS-13 CORE HOLE FOR SAMPLING AND TESTING MARL

NOTES:

1. SIDE SLOPES ARE 2 HORIZONTAL TO 1 VERTICAL.
2. ALL ZONES MAPPED CONSIST OF SAND EXCEPT WHERE OTHERWISE NOTED. SEE DRAWING AX6DD352 AND TEXT FOR DETAILED DESCRIPTIONS OF STRATIGRAPHY. FOR EXAMPLE "YELLOW" REFERS TO YELLOW SAND.
3. BOTTOM OF EXCAVATION=130.00 ft., EXCEPT AUXILIARY BUILDING WHICH IS ELEV. 106.75 ft.

NOTES CONT'D

4. THE APPARENT IRREGULARITY OF THE UPPER CONTACT OF THE LIBSON FORMATION REFLECTS THE IRREGULAR CONFIGURATION OF THE EXCAVATION AT THE TIME OF MAPPING AND IS NOT RELATED TO STRUCTURE IN THE MARL. SEE DRAWINGS AX6DD372 AND AX6DD373 FOR DETAILED SURVEY INFORMATION ON THIS CONTACT.

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

SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

GEOLOGIC MAP
POWER BLOCK AREA

SCALE: NONE

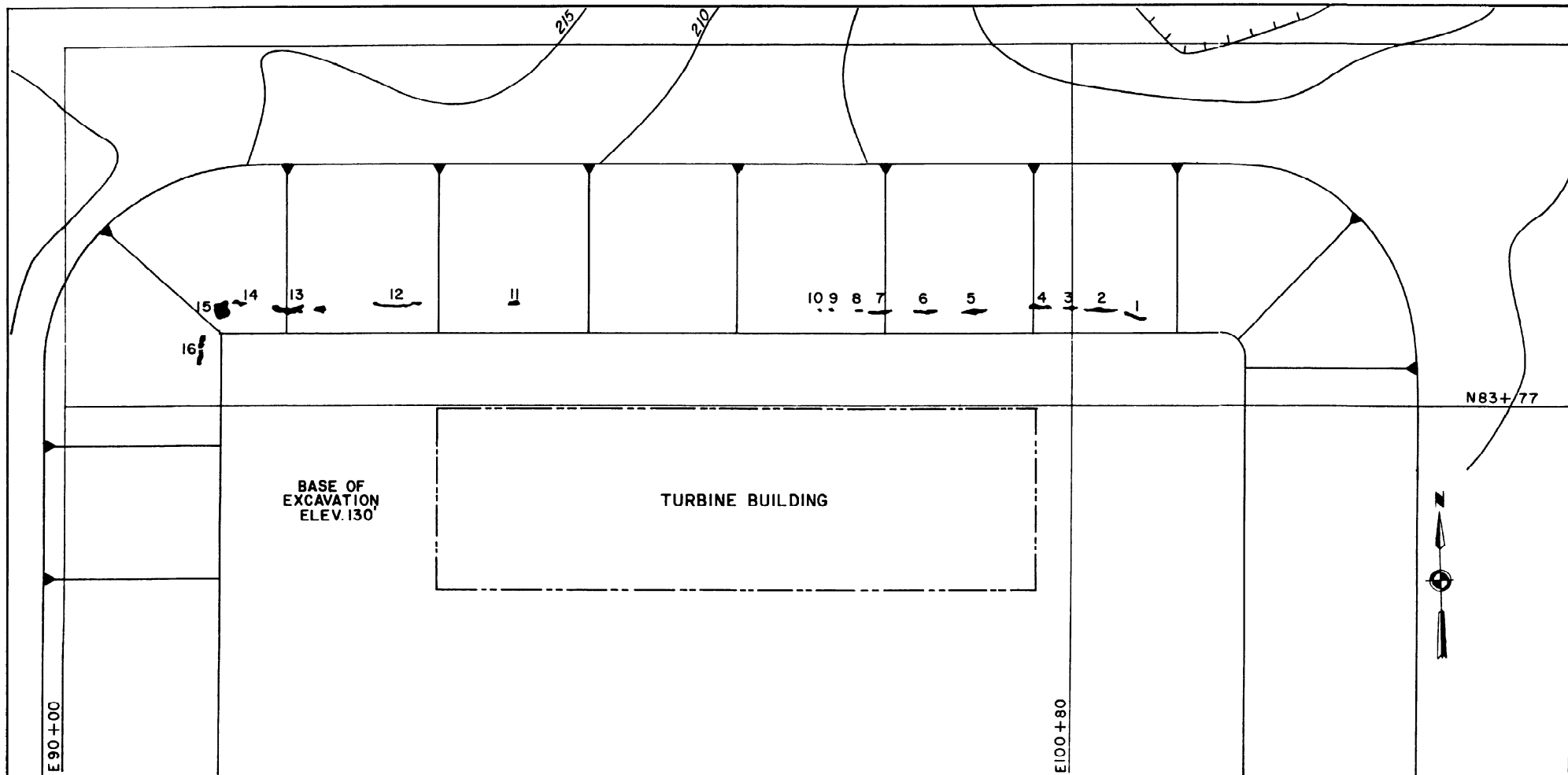
DRAWING NO.

REV

JOB NO. 10604

AX6DD362

1

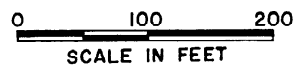


APPROXIMATE CAVITY DIMENSIONS
(IN FEET)

CAVITY NO.	LENGTH	HEIGHT	DEPTH
1	17	4.5	25
2	32	—	3-5
3	21	3	—
4	22	2.5-4.0	9-11
5	26	2.5	—
6	18	2.3-5	5-10
7	22	2-4.5	10
8	13	1	—

APPROXIMATE CAVITY DIMENSIONS
(IN FEET)

CAVITY NO.	LENGTH	HEIGHT	DEPTH
9	6	3.0-5.5	15
10	11	3	—
11	10	1.5	—
12	45	3	—
13	53	4.5-6.0	12
14	32	2.5-6.0	10-20
15	10	7.0-10.0	25
16	14	3.5-5.0	20-23





EXPLANATION

— Approximate cavity location

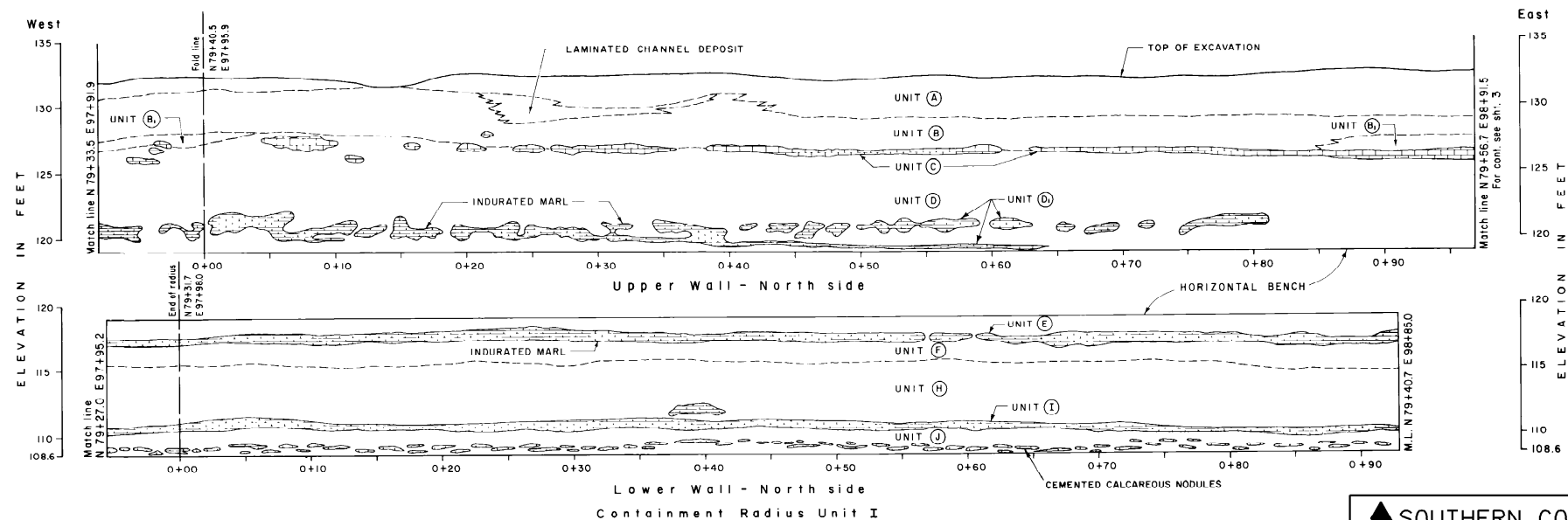
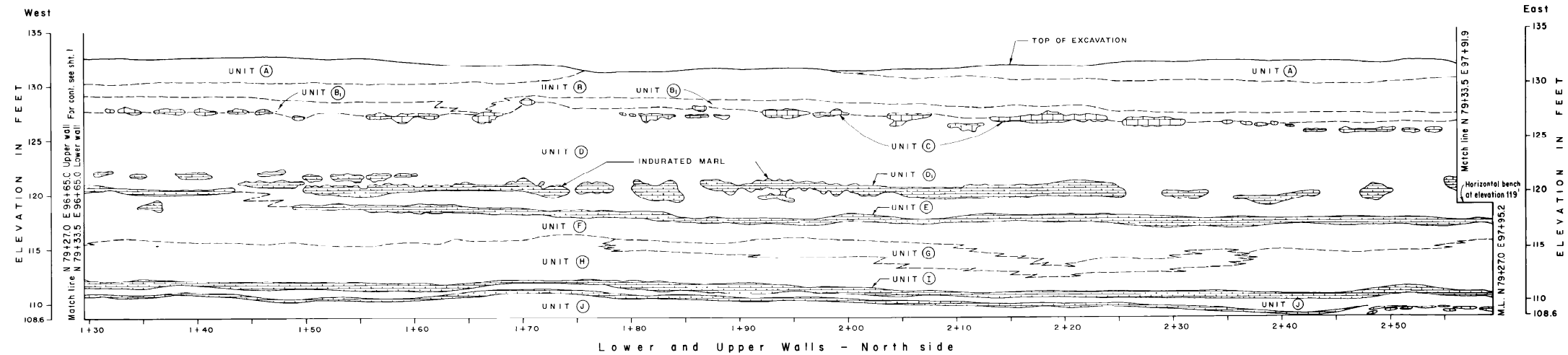
 SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

GEOLOGIC MAP - CAVITIES
IN UTLEY LIMESTONE POWER
BLOCK CUT SLOPE

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

SCALE: NONE	DRAWING NO.	REV
JOB NO. 10604	AX6DD363	0

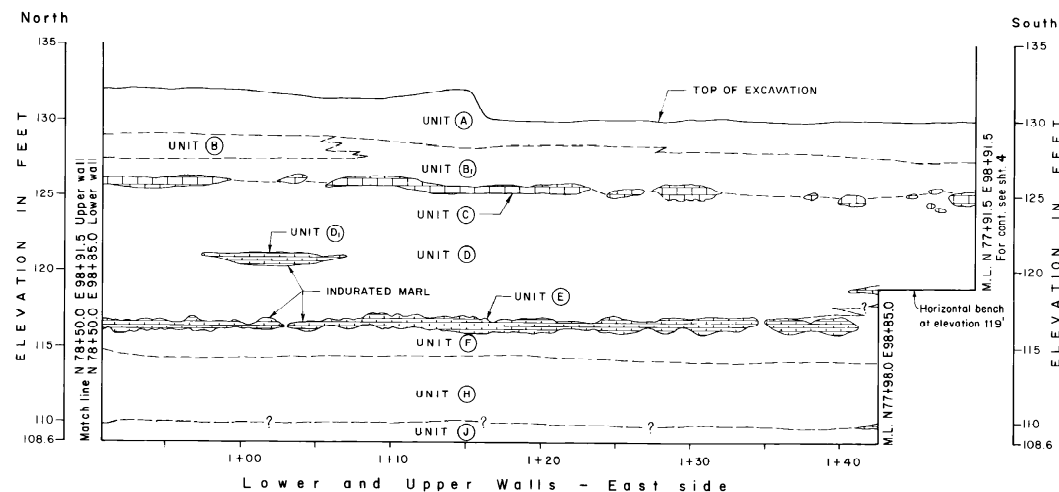
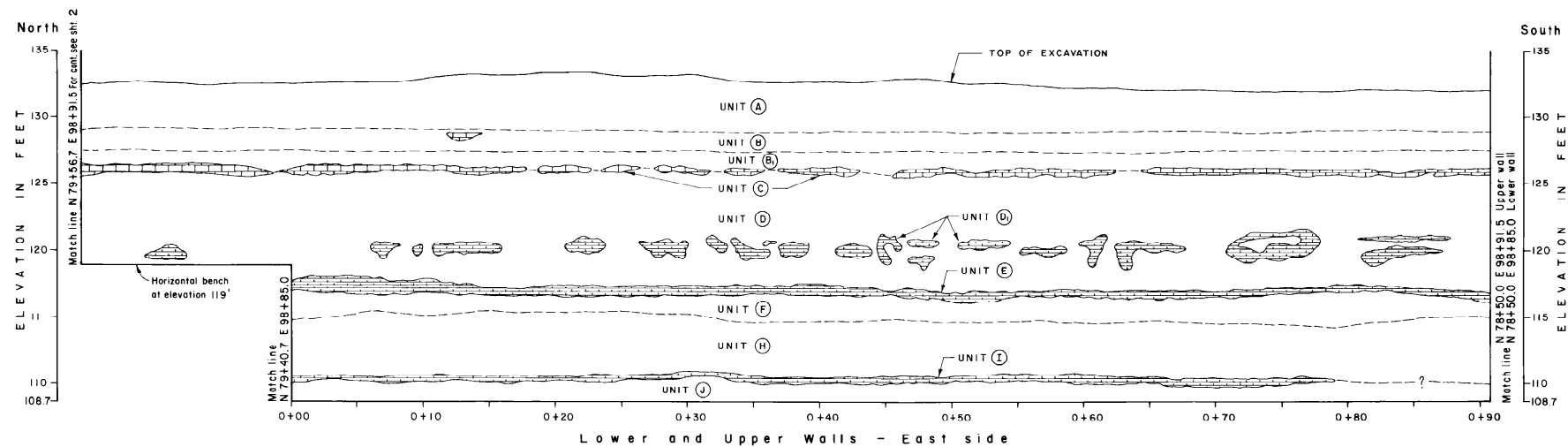


NOTES:

1. FOR EXPLANATION OF GEOLOGIC UNITS SEE DRAWING AX6DD370.
2. STATIONING KEY AND SECTION LOCATION SHOWN ON DRAWING AX6DD374 AND AX6DD375.
3. SECTION CONSIST OF UPPER AND LOWER WALLS SEPARATED BY HORIZONTAL BENCH AT ELEVATION 119 FT. (SEE DRAWING AX6DD374 AND AX6DD375).

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

SOUTHERN COMPANY SERVICES, INC. BIRMINGHAM, ALABAMA		
GEORGIA POWER COMPANY ALVIN W. VOGTLE NUCLEAR PLANT		
GEOLOGIC SECTIONS AUXILIARY BLDG. BASEMENT		
SCALE: NONE	DRAWING NO.	REV
JOB NO. 10604	AX6DD365	0



NOTES:

1. FOR EXPLANATION OF GEOLOGIC UNITS SEE DRAWING AX6DD370.
2. STATIONING KEY AND SECTION LOCATION SHOWN ON DRAWING AX6DD375.
3. SECTION CONSIST OF UPPER AND LOWER WALLS SEPARATED BY HORIZONTAL BENCH AT ELEVATION 119 FT. (SEE DRAWING AX6DD375).

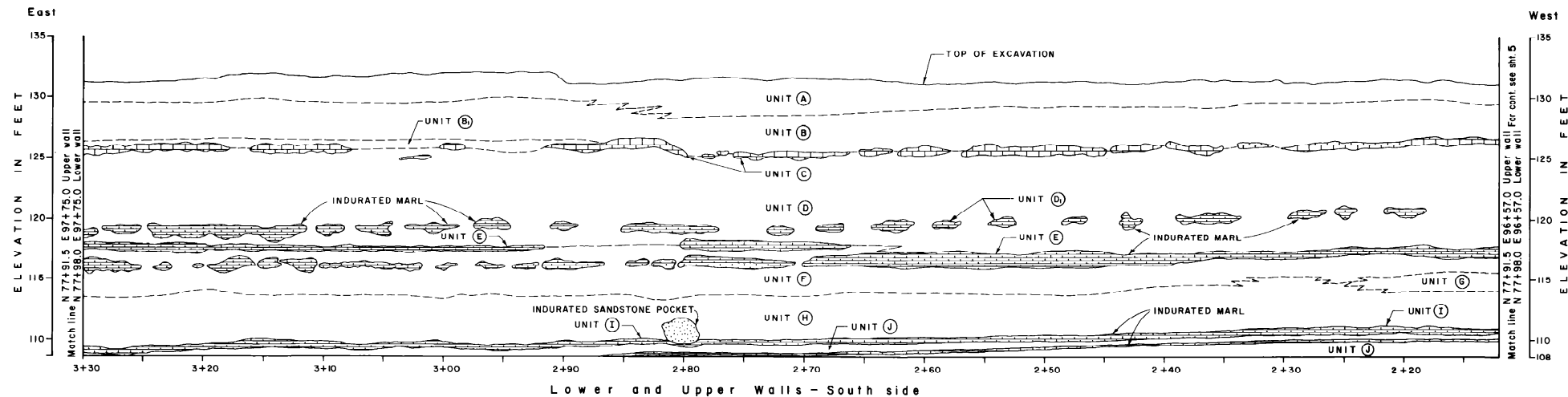
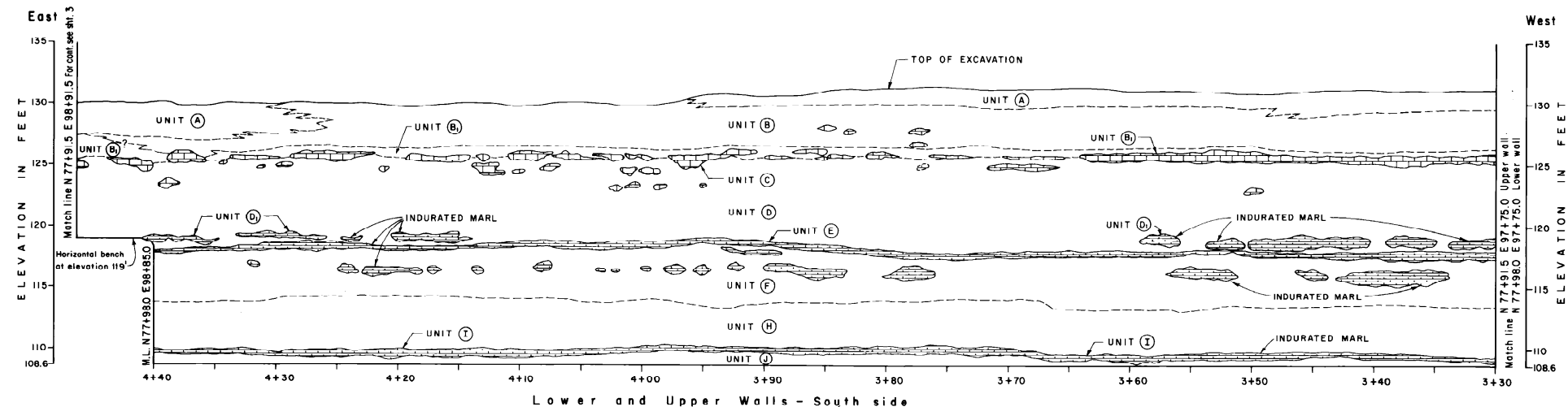
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△	ISSUED PER REA 96-VAA054	9-30-98	GS	RBH	CBH	WFP
NO.	REVISIONS	DATE	DR	CHK	APPV	DTL

SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT


GEOLOGIC SECTIONS
AUXILIARY BLDG. BASEMENT

SCALE: NONE	DRAWING NO.	REV
JOB NO. 10604	AX6DD366	0



NOTES:

1. FOR EXPLANATION OF GEOLOGIC UNITS SEE DRAWING AX6DD370.
2. STATIONING KEY AND SECTION LOCATION SHOWN ON DRAWING AX6DD375.
3. SECTION CONSISTS OF UPPER AND LOWER WALLS SEPARATED BY HORIZONTAL BENCH AT ELEVATION 119 ft. (SEE DRAWING AX6DD375).





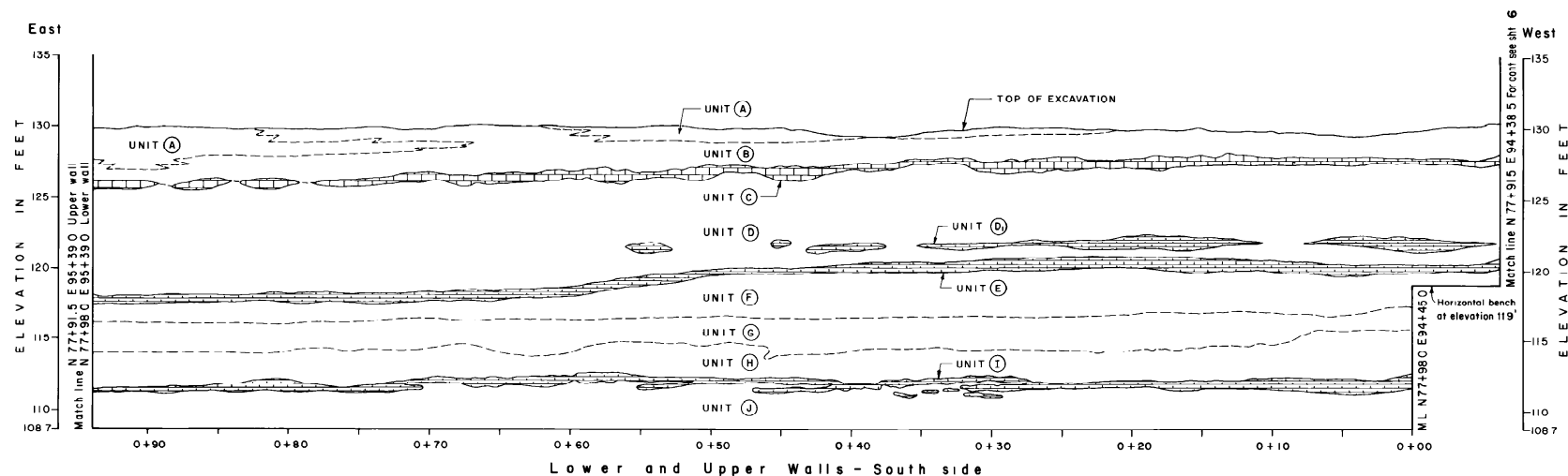
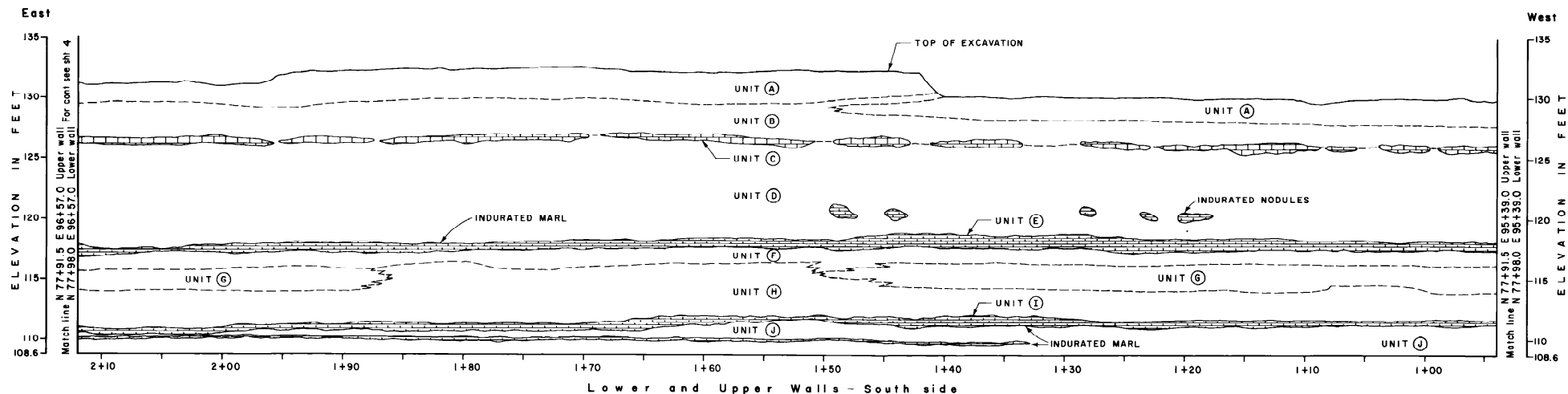
SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

GEOLOGIC SECTIONS

AUXILIARY BLDG. BASEMENT

							SCALE: NONE	DRAWING NO.	REV
	ISSUED PER REA 96-VAA054	9-30-98	GS	RBH	CBH	WFP		JOB NO. 10604	AX6DD367
NO.	REVISIONS	DATE	DR	CHK	APPV	DTL			



NOTES:

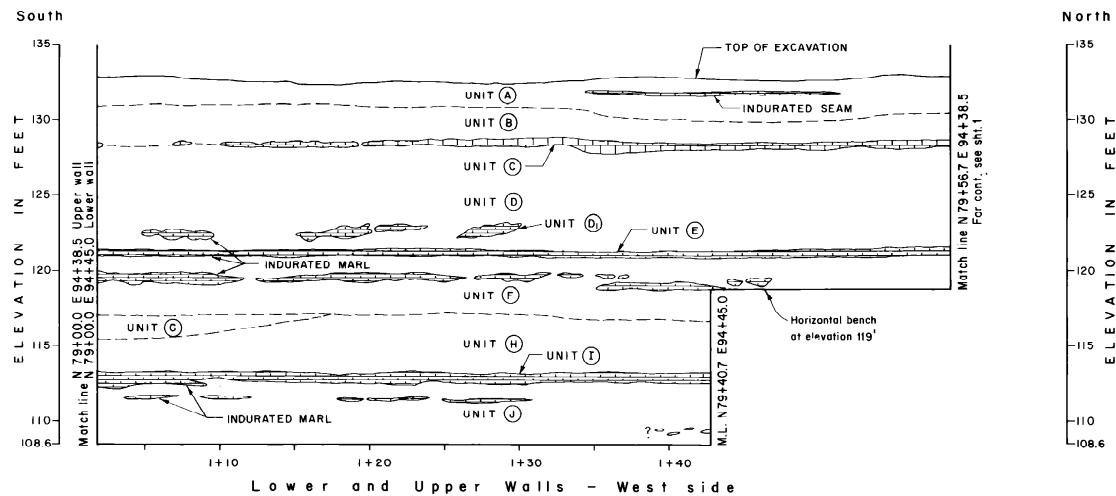
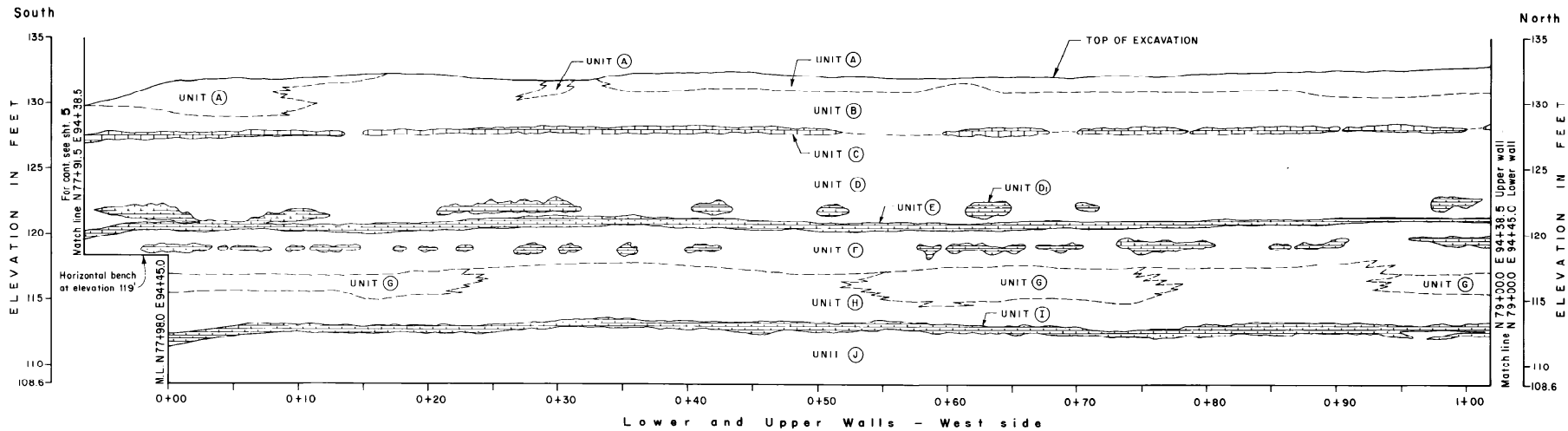
1. FOR EXPLANATION OF GEOLOGIC UNITS SEE DRAWING AX6DD370.
2. STATIONING KEY AND SECTION LOCATION SHOWN ON DRAWING AX6DD374.
3. SECTION CONSISTS OF UPPER AND LOWER WALLS SEPARATED BY HORIZONTAL BENCH AT ELEVATION 119 ft. (SEE DRAWING AX6DD374).

SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

GEOLOGIC SECTIONS
AUXILIARY BLDG. BASEMENT

△							SCALE: NONE	DRAWING NO.	REV
△	ISSUED PER REA 96-VAA054	9-30-98	GS	RBH	CBH	WFP			
NO.	REVISIONS	DATE	DR	CHK	APPV	DTL	JOB NO. 10604	AX6DD368	0



NOTES:

1. FOR EXPLANATION OF GEOLOGIC UNITS SEE DRAWING AX6DD370.
2. STATIONING KEY AND SECTION LOCATION SHOWN ON DRAWING AX6DD374.
3. SECTION CONSISTS OF UPPER AND LOWER WALLS SEPARATED BY HORIZONTAL BENCH AT ELEVATION 119 ft. (SEE DRAWING AX6DD374).

SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA


GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

GEOLOGIC SECTIONS
AUXILIARY BLDG. BASEMENT

△							SCALE: NONE	DRAWING NO.	REV
△	ISSUED PER REA 96-VAA054	9-30-98	GS	RBH	CBH	WFP			
NO.	REVISIONS	DATE	DR	CHK	APPV	DTL	JOB NO. 10604	AX6DD369	0



- UNIT (A) MARL - Silty to clayey dark gray marl; thin light gray laminations which are discontinuous and undulating; parting along laminations common; laminations are conformable with overall attitude of unit; scattered shell fragments; cemented or indurated lenses of sand (up to 0.1' thick) occur locally; appears dessicated at surface after exposure to the atmosphere.
- UNIT (A1) INDURATED MARL - Indurated light gray sandy marl, massive, conchoidal fracture, few fossil fragments, moderately hard (can be scratched with a knife); contacts gradational, few dessication cracks develop on exposure to atmosphere, small mica flakes observed without aid of magnification device. Thickness varies from 0.0 to 0.5'.
- UNIT (B) SANDY MARL - Very fine-grained sand and silt with widely scattered shell fragments, typically massive although faintly laminated zones are present, sugary texture, dessication cracks poorly developed, moderately soft, medium gray to dark gray.
- UNIT (B1) LAMINATED MARL - Dark gray to white alternating discontinuous bands of clay and very fine-grained sand and mixtures of the above; the bands are lenticular and undulatory; few fossils present, locally well indurated, dessication cracks appear upon exposure to atmosphere, gradational contacts except with Unit (C) ; typically moderately soft, can be deformed under finger pressure but hardens upon drying.
- UNIT (C) LIMESTONE - Light gray, hard, limestone; conchoidal fracture, no fossils, discontinuous with lenticular pods, up to 1.0-foot thick, sharp contacts.
- UNIT (D) FOSSILIFEROUS MARL - Medium gray (lightens upon drying), highly fossiliferous, sandy (very fine-grained) to silty, massive, uniform lithology throughout auxiliary building foundation, many pelecypod fossils retain both valves, discontinuous limestone-like indurated seams occur in the upper portion, large lime-cemented nodules and seams occur near the base of the unit which have gradational contacts with the surrounding material; unit varies from moderately hard to moderately soft.
- UNIT (D1) LIMESTONE PODS - Impure limestone to well-cemented marl, discontinuous highly irregular pods and lenses, generally at the same elevation, highly gradational contacts, resembles caliche-like deposit in places, light gray, hard, fossiliferous, silty, massive, no jointing or fractures.
- UNIT (E) IMPURE LIMESTONE - Gray, impure limestone appears to be indurated or lime-cemented marl material, fossiliferous, hard, sharp to highly gradational and uneven contacts.
- UNIT (F) FOSSILIFEROUS MARL - Very similar to Unit (D) ; medium gray, highly fossiliferous sandy (very fine-grained) to silty, massive gradational contacts in places with both overlying and underlying units, moderately soft, unit forms dessication cracks upon exposure to the atmosphere.
- UNIT (G) LAMINATED MARL - Laminated, dark gray to light gray, unit is characterized by sinuous, undulatory, discontinuous laminations, silty to extremely fine sand, scattered shell fragments, small lenticular clay pods, well consolidated, moderately soft (cannot be deformed by finger pressure), no joints or bedding planes, scattered carbonaceous lenses.
- UNIT (H) MASSIVE MARL - Massive, silty, firm, uncemented, well consolidated, upper portion of this unit has only sparse fossils but fossils become more numerous near the base, no bedding joints or fractures, medium gray to light gray when dry, moderately soft, cannot be deformed by finger pressure.
- UNIT (I) IMPURE LIMESTONE - Fossiliferous, massive, silty limestone, locally discontinuous, hard, light gray to white, locally interbedded with Unit (H) , small carbonaceous inclusions.
- UNIT (J) FOSSILIFEROUS MARL - Medium gray, massive fossiliferous silty, marl, scattered shell fragments, numerous limestone pods occur about 3' below the top of the unit; a thin indurated zone is present about 1' below the top of the unit; moderately hard.

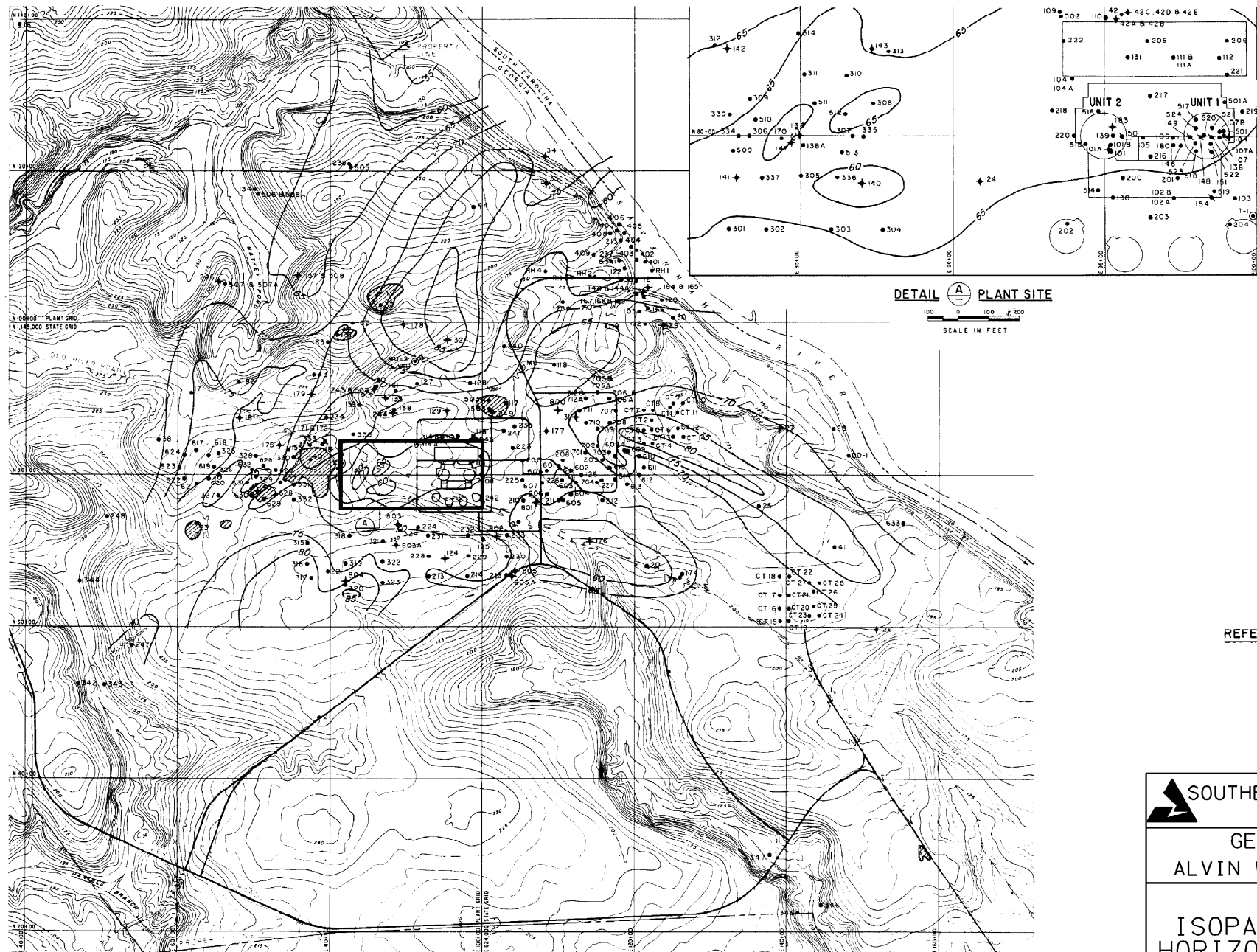
NOTE:
FOR GEOLOGIC SECTIONS SEE DRAWINGS AX6DD364
THRU AX6DD369.

SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

GEOLOGIC SECTIONS
AUXILIARY BLDG. BASEMENT

								SCALE: NONE	DRAWING NO.	REV
	ISSUED PER REA 96-VAA054	9-30-98	GS	RBH	CBH	WFP				
NO.	REVISIONS	DATE	DR	CHK	APPV	DTL	JOB NO. 10604	AX6DD370	0	



EXPLANATION

- 17 Exploration hole
- ▼ 151 Seismic survey hole
- ★ 31 Ground water observation hole
- ⊙ T-1 Make-up well
- ⊖ Surface depression
- 50- isopach of the marl bearing horizon thickness in feet



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.

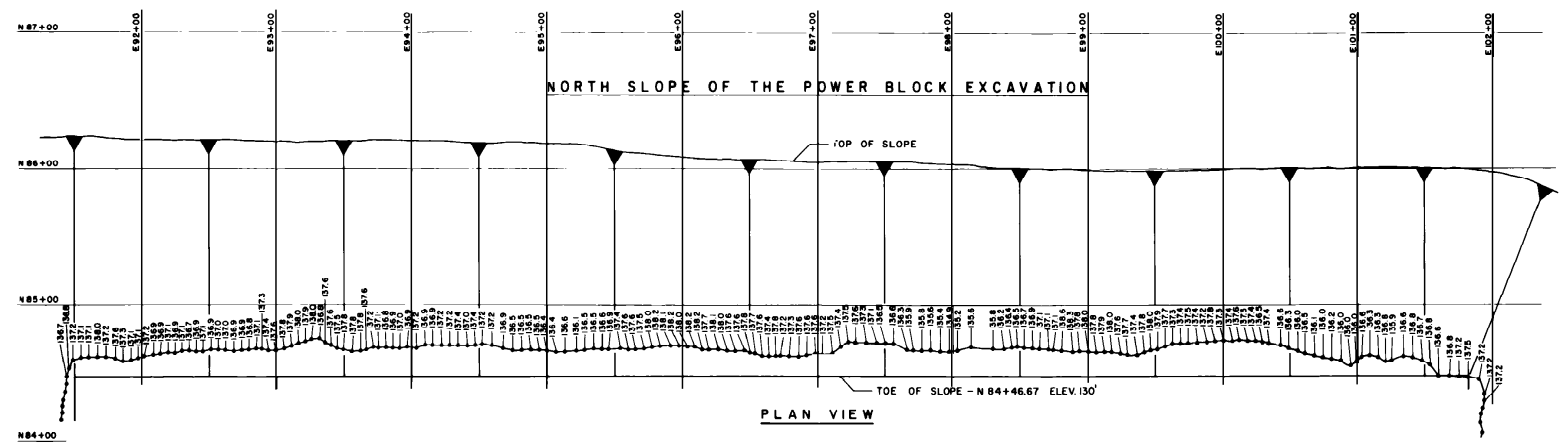
SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

ISOPACHS OF THE BEARING HORIZON (BLUE BLUFF MARL)

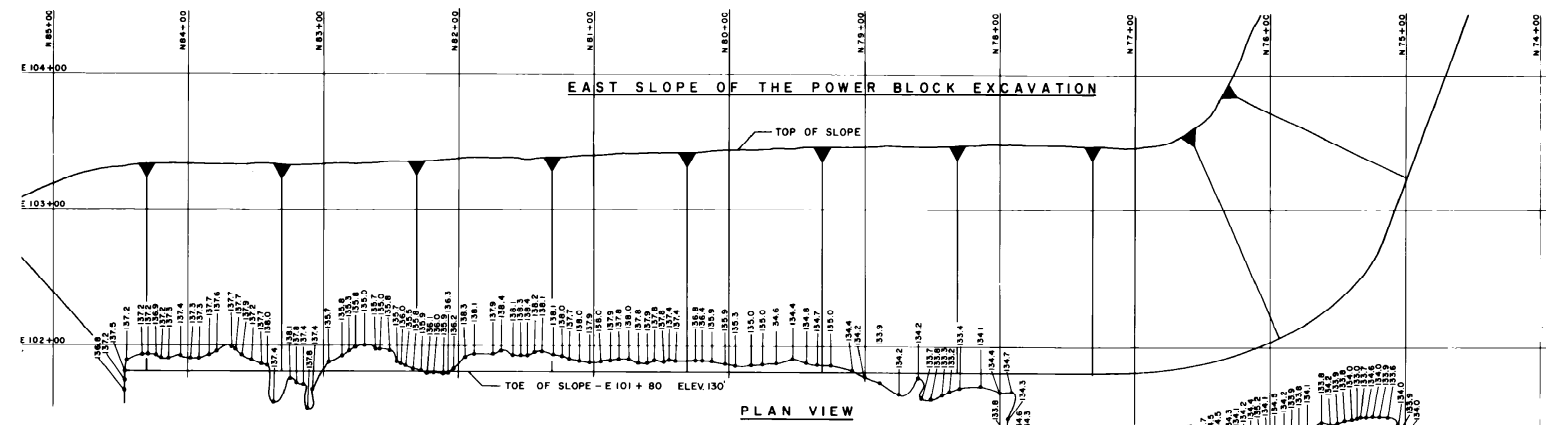
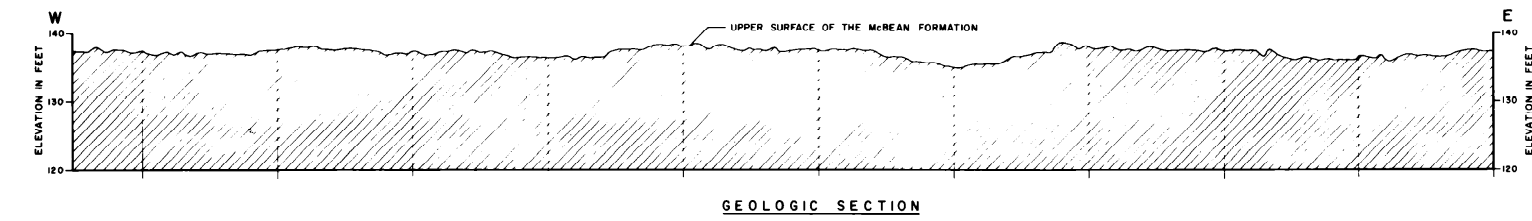
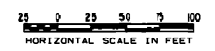
△							
△	ISSUED PER REA 96-VAA054	9-30-98	GS	RBH	CBH	WFP	
NO.	REVISIONS	DATE	DR	CHK	APPV	DTL	

SCALE: NONE	DRAWING NO.	REV
JOB NO. 10604	AX6DD371	0



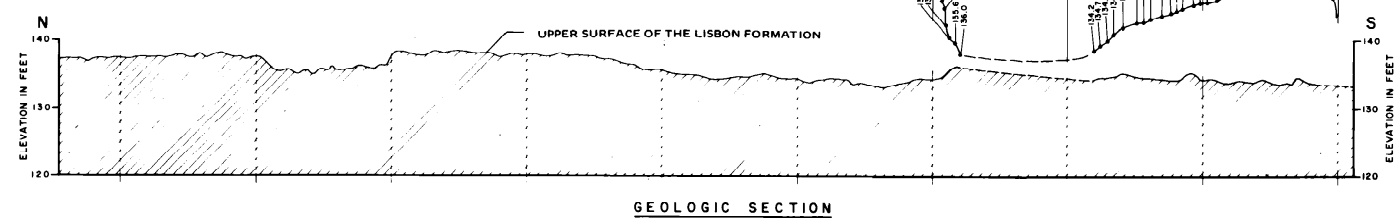
EXPLANATION


- 135.2 Elevation (in feet) of a point on the top of the Lisbon Fm. located by survey
- ▨ Lisbon Formation



EXPLANATION

- 135.2 Elevation (in feet) of a point on the top of the Lisbon Fm. located by survey
- ▨ Lisbon Formation

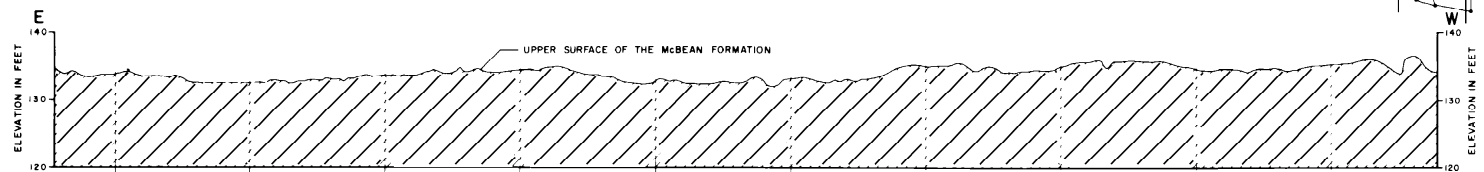
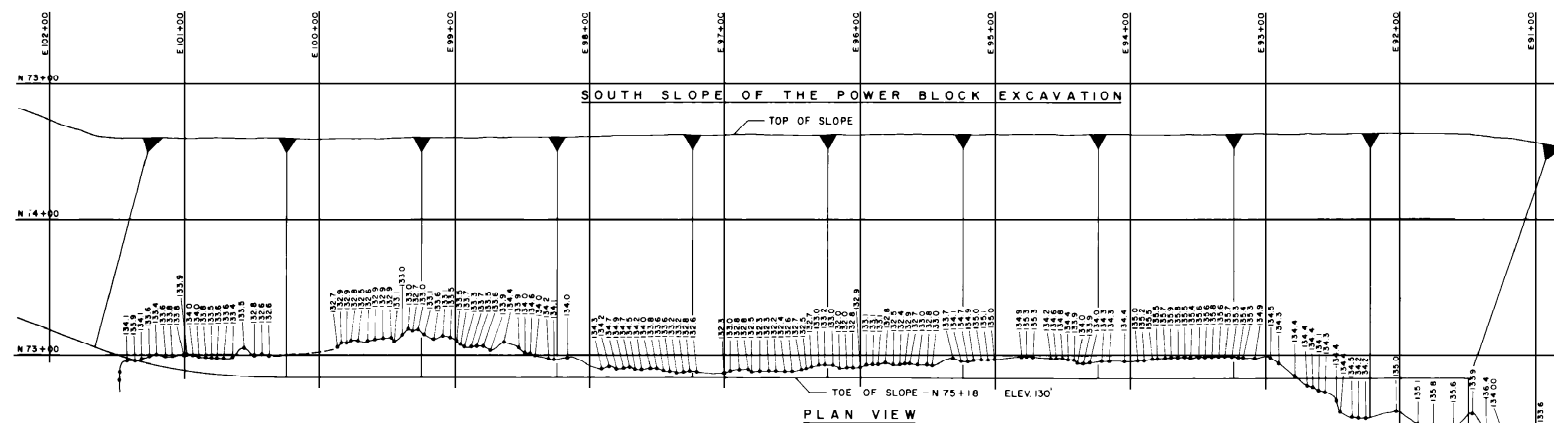


 SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

UPPER SURFACE OF THE MARL
(LIBSON FORMATION) NORTH
AND EAST SLOPES

△							SCALE: NONE	DRAWING NO.	REV
△	ISSUED PER REA 96-VAA054	9-30-98	GS	RBH	CBH	WFP			
NO.	REVISIONS	DATE	DR	CHK	APPV	DTL	JOB NO. 10604	AX6DD372	0

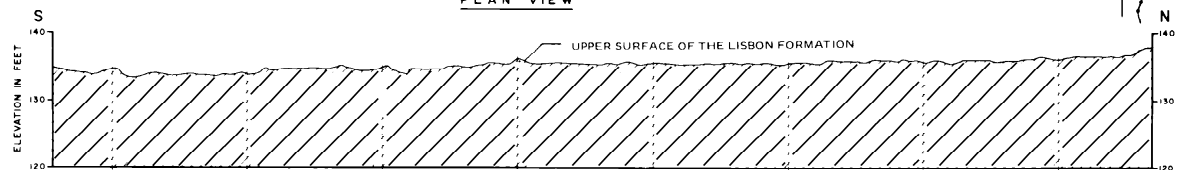
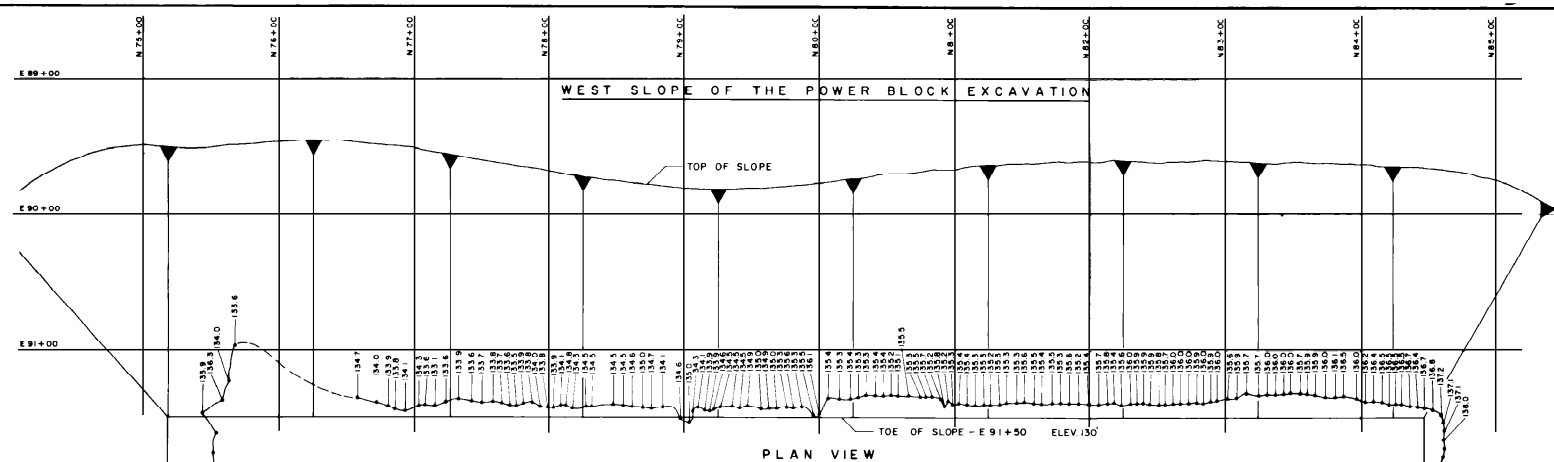


EXPLANATION

- 135.2 Elevation (in feet) of a point on the top of the Lisbon Fm. located by survey
- Lisbon Formation



25 0 25 50 75 100
HORIZONTAL SCALE IN FEET



EXPLANATION

- 135.2 Elevation (in feet) of a point on the top of the Lisbon Fm. located by survey
- Lisbon Formation



25 0 25 50 75 100
HORIZONTAL SCALE IN FEET

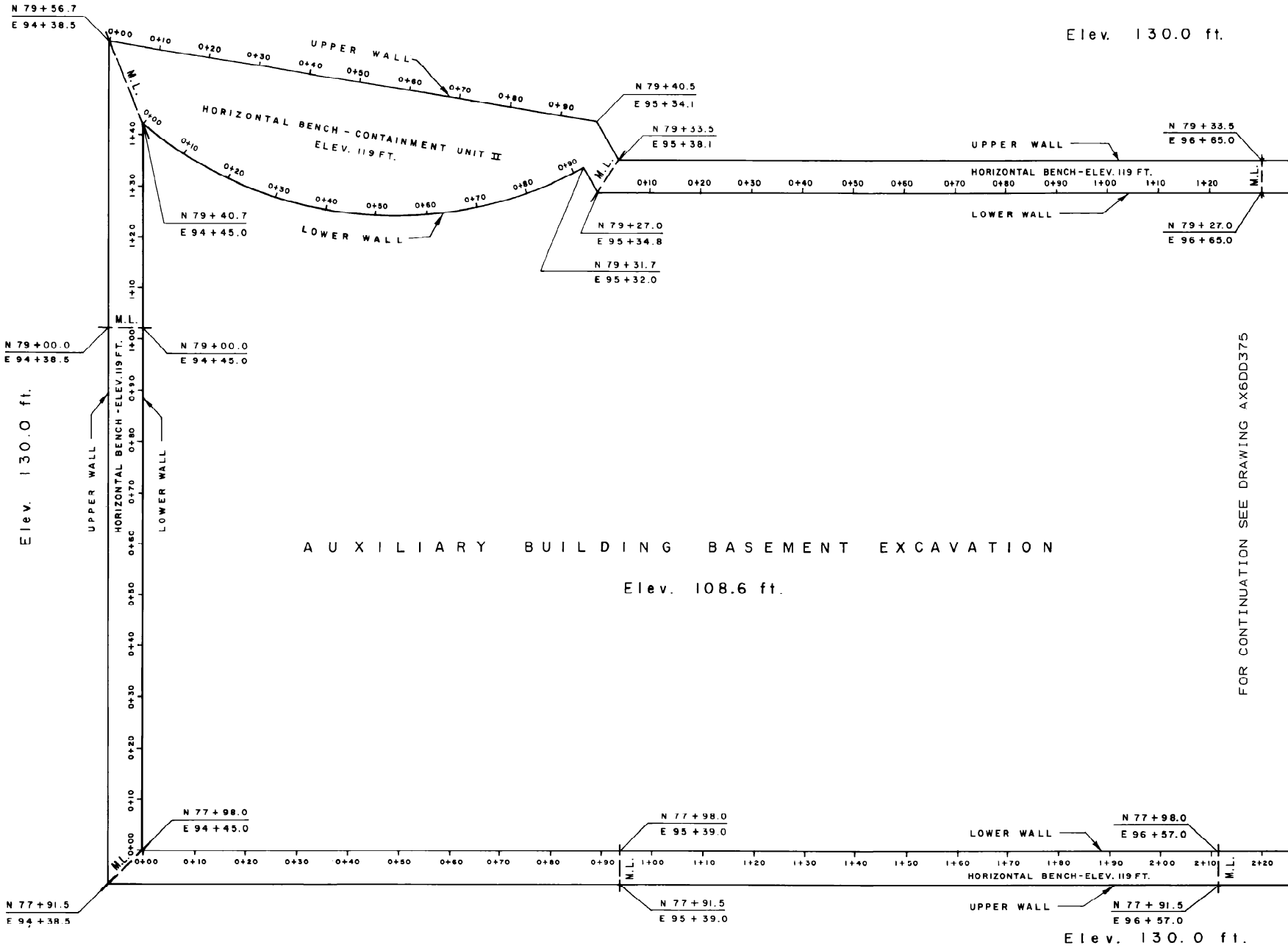
SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA
GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT
UPPER SURFACE OF THE MARL
(LIBSON FORMATION) SOUTH
AND WEST SLOPES


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

SCALE: NONE	DRAWING NO.	REV
JOB NO. 10604	AX6DD373	0

NOTES

- 1. FOR GEOLOGIC SECTIONS SEE DRAWINGS AX6DD364 THRU AX6DD369
- 2. Excavation consists of upper and lower vertical walls separated by horizontal bench at elevation 119 ft.
- 3. Coordinates shown are plant coordinates in feet.

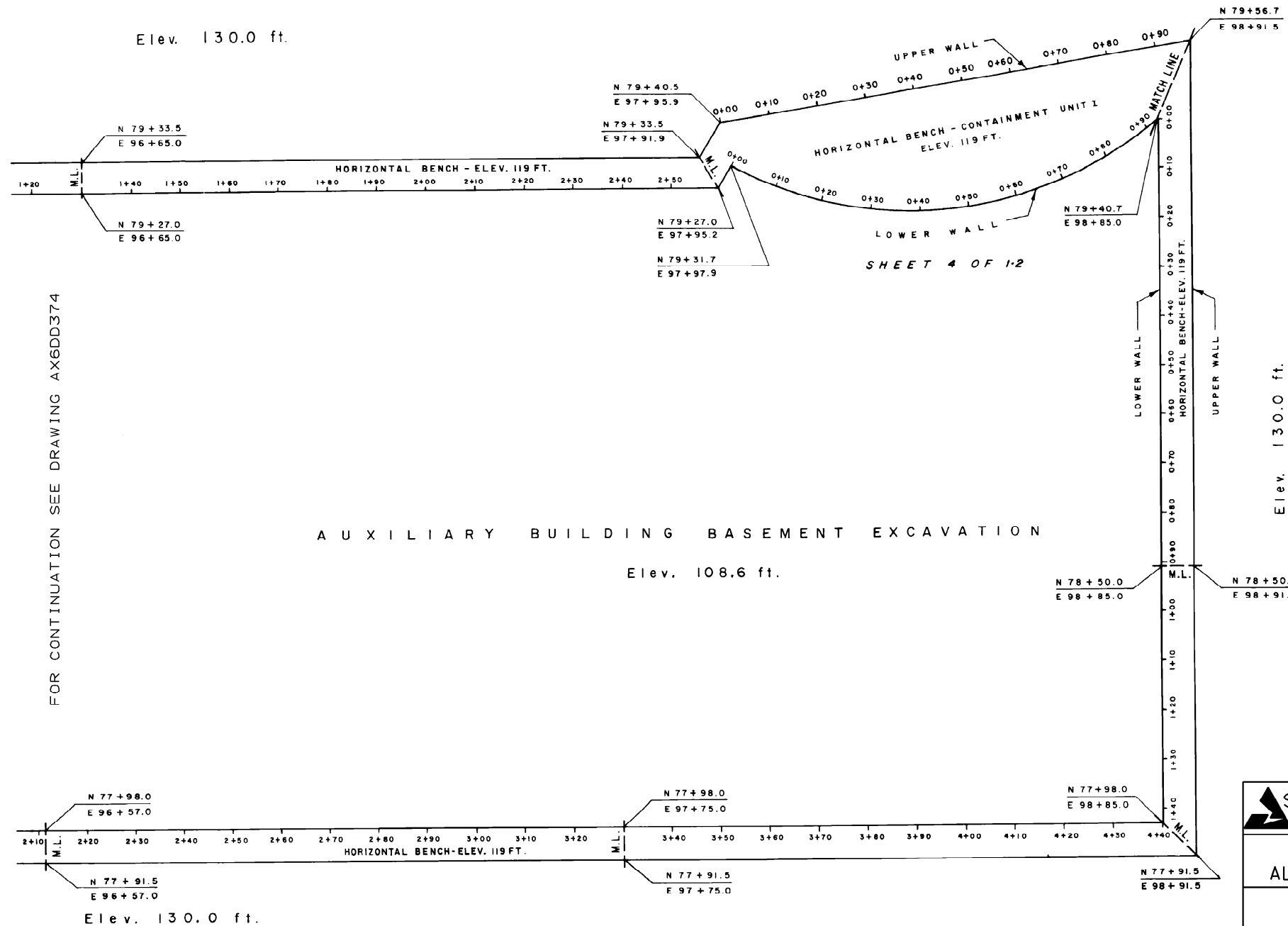


SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT


GEOLOGIC REFERENCE
STATIONS-AUXILIARY BLDG.
BASEMENT EXCAVATION

NO.	REVISIONS	DATE	DR	CHK	APPV	DTL	SCALE: NONE	DRAWING NO.	REV
							JOB NO. 10604	AX6DD374	0





NOTES:

1. FOR GEOLOGIC SECTIONS SEE DRAWINGS AX6DD364 THRU AX6DD369.
2. EXCAVATION CONSISTS OF UPPER AND LOWER VERTICAL WALLS SEPARATED BY HORIZONTAL BENCH AT ELEVATION 119 ft.
3. COORDINATES SHOWN ARE PLANT COORDINATES IN FEET.

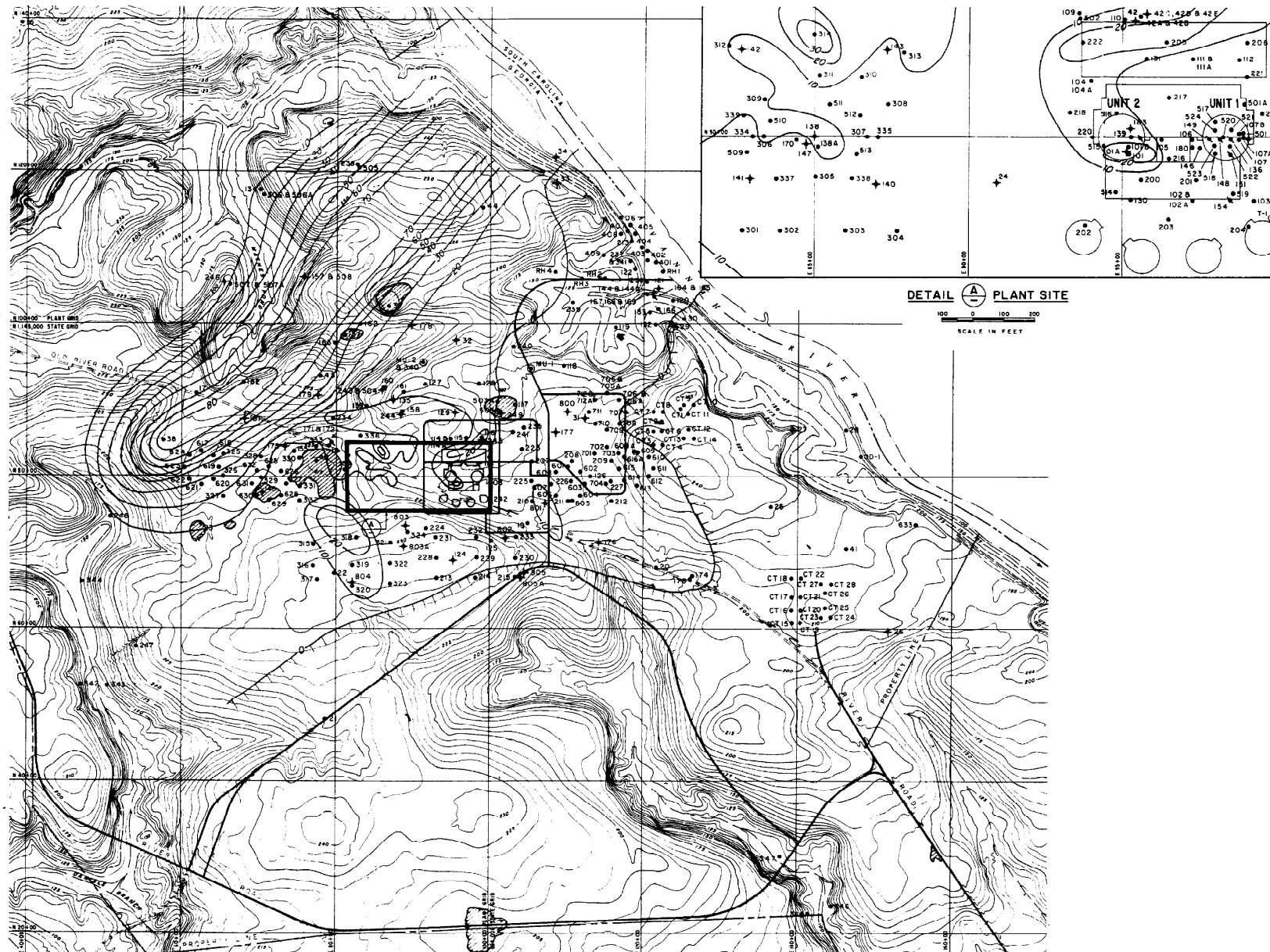
 SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

GEOLOGIC REFERENCE
STATIONS-AUXILIARY BLDG.
BASEMENT EXCAVATION

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

SCALE: NONE	DRAWING NO.	REV
JOB NO. 10604	AX6DD375	0



EXPLANATION

- 17 Exploration hole
- 151 Seismic survey hole
- +31 Ground water observation hole
- ⊙T-1 Make-up well
- ⬢ Surface depression
- 50 Isopach of the shell zone thickness in feet
- Limit of shell zone hachures on side shell zone not present




REFERENCE :

Hancock Landing Project topographic map prepared by Clyde N. Eldridge Aerial Surveys, Feb 25/7



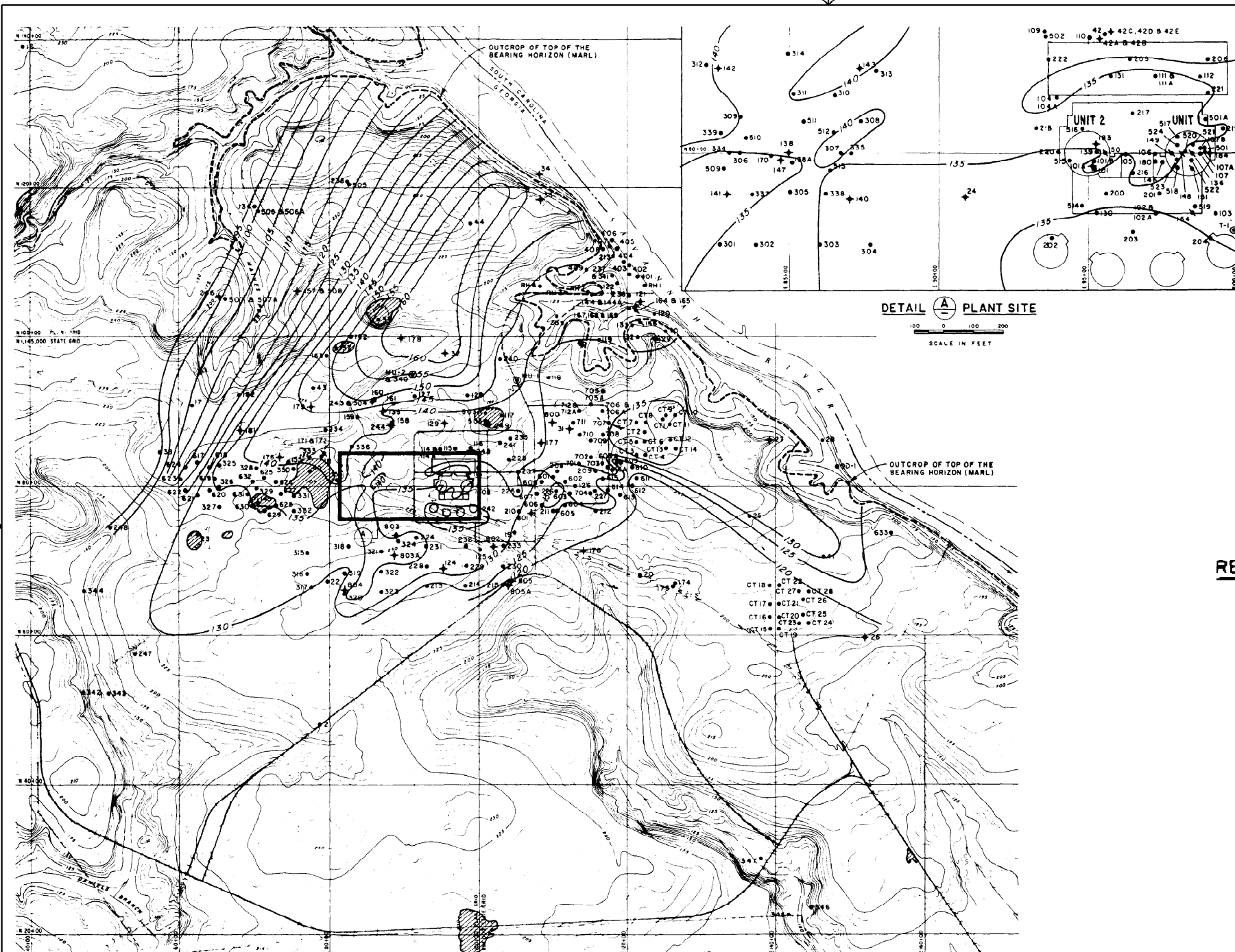
Contour intervals 5 ft. and 25 ft.

 SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

AREAL EXTENT AND ISOPACHS
OF THE SHELL ZONE
(UTLEY LIMESTONE)

NO.	ISSUED PER REA 96-VAA054	REVISIONS	DATE	DR	CHK	APPV	DTL	SCALE: NONE	DRAWING NO.	REV
								JOB NO. 10604	AX6DD376	0

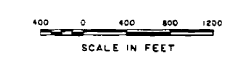


EXPLANATION


- 17 EXPLORATION HOLE
- 151 SEISMIC SURVEY HOLE
- ★ 31 GROUND WATER OBSERVATION HOLE
- T-1 MAKE-UP WELL
- SURFACE DEPRESSION
- 110- 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



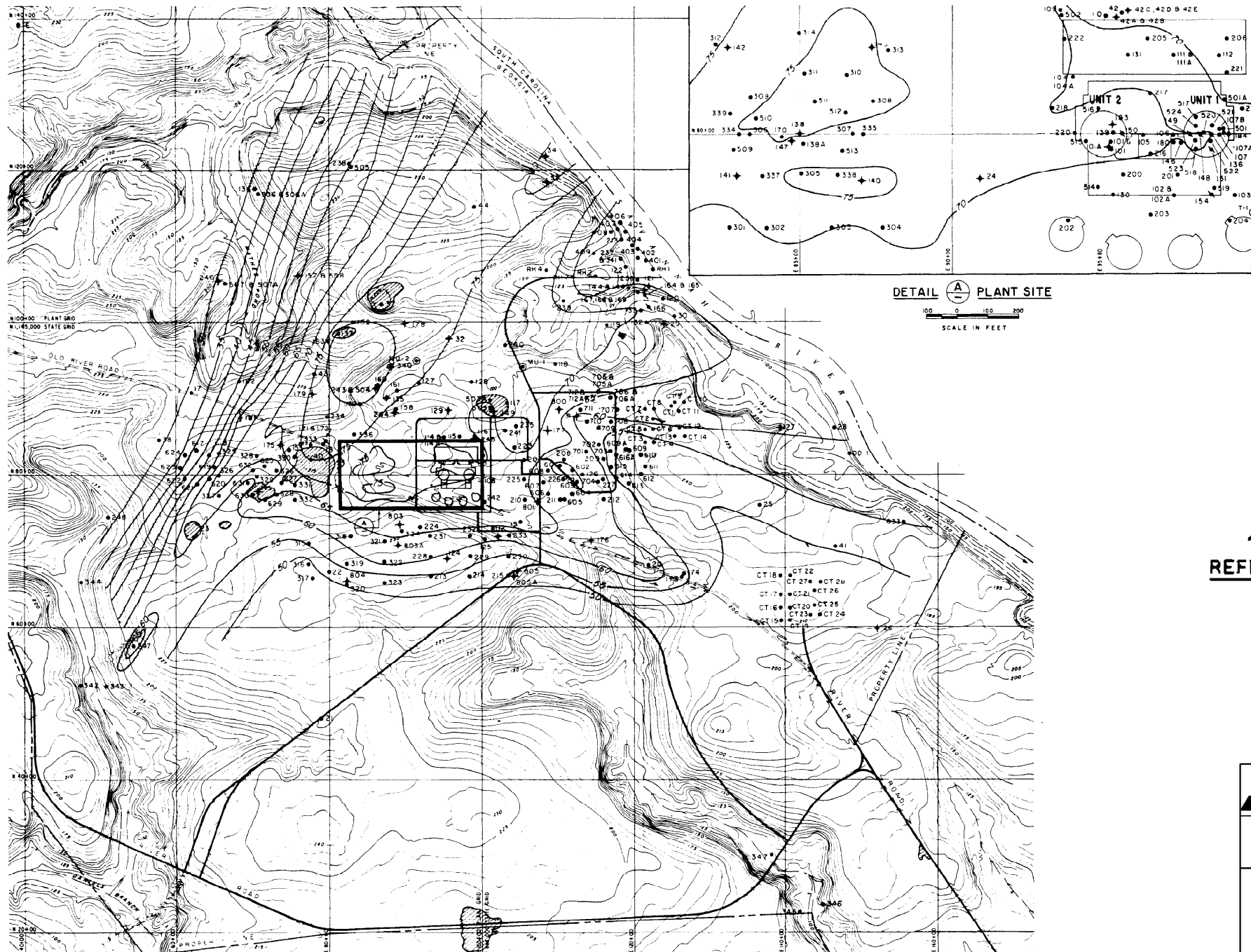
Contour intervals 5 ft and 25 ft

 SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

TOP OF THE BEARING
HORIZON (BLUE BLUFF MARL)

NO.	ISSUED PER REA 96-VAA054	DATE	DR	CHK	APPV	DTL	SCALE: NONE	DRAWING NO.	REV
							JOB NO. 10604	AX6DD377	0

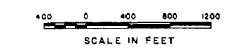


EXPLANATION


- 17 EXPLORATION HOLE
- ▼ 151 SEISMIC SURVEY HOLE
- + 31 GROUND WATER OBSERVATION HOLE
- ⊙ 1 MAKE-UP WELL
- ◐ SURFACE DEPRESSION
- 10- 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



Contour intervals 5 ft. and 25 ft.

 SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

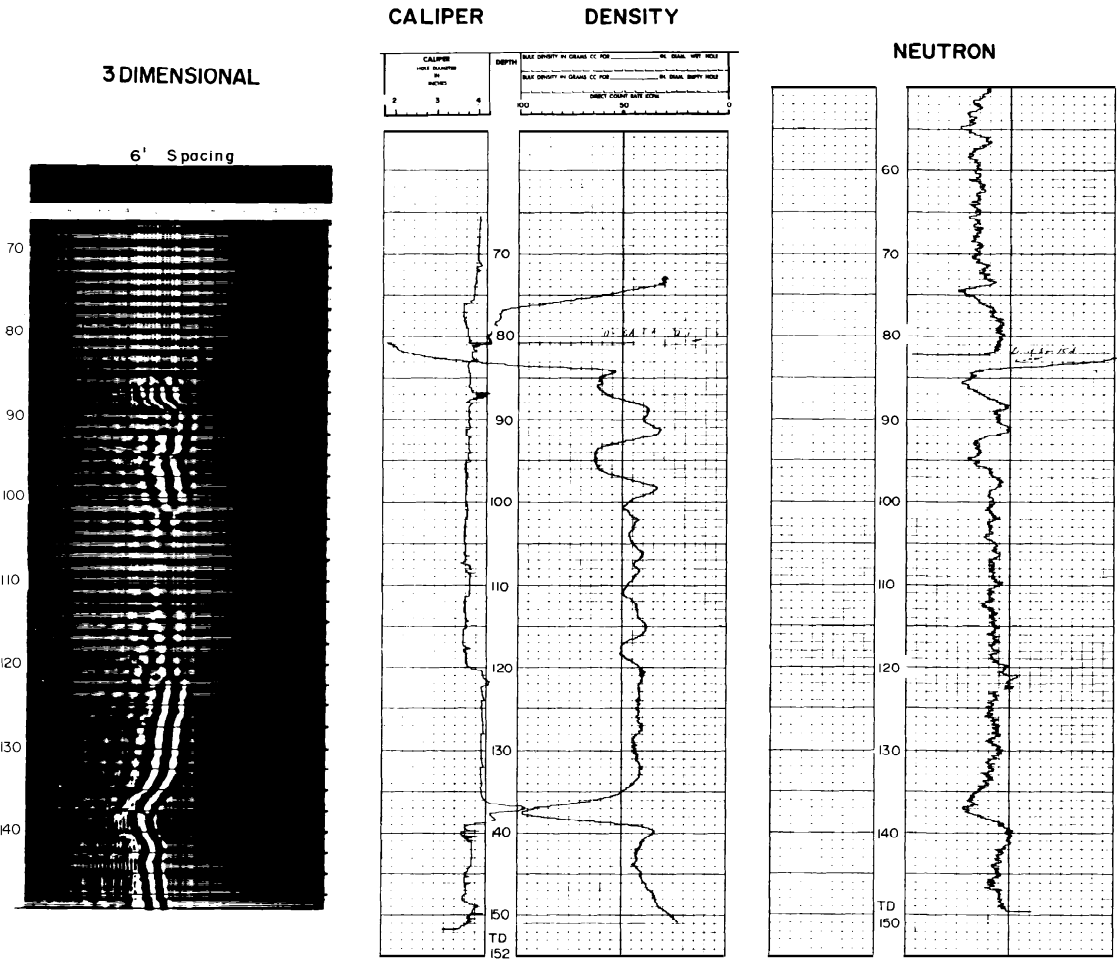
GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT


BOTTOM OF THE BEARING
HORIZON (BLUE BLUFF MARL)

△	ISSUED PER REA 96-VAA054	9-30-98	GS	RBH	CBH	WFP	SCALE: NONE	DRAWING NO.	REV
							JOB NO. 10604	AX6DD378	0
NO.	REVISIONS	DATE	DR	CHK	APPV	DTL			

BIRDWELL GEOPHYSICAL LOGS

HOLE NO. 501



SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

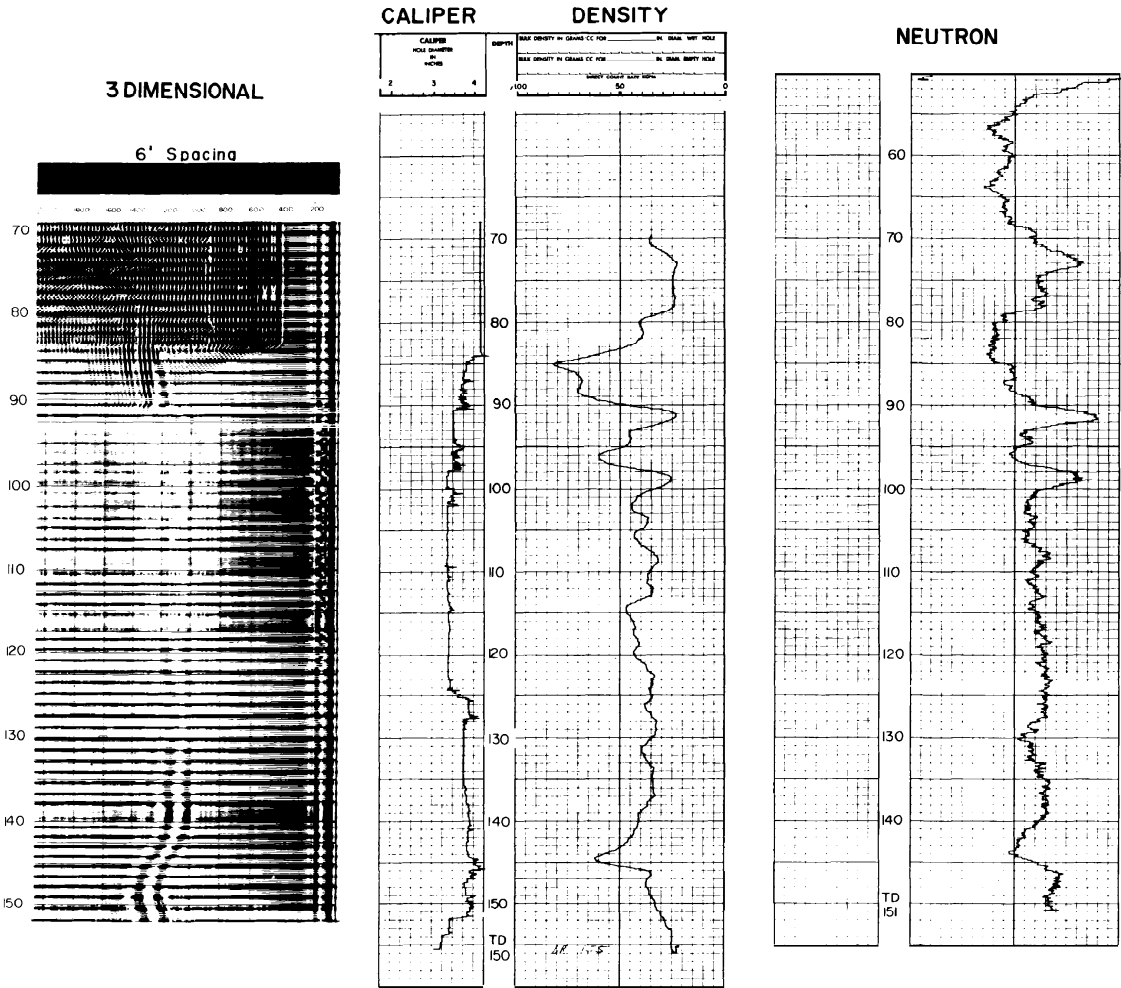
GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

GEOPHYSICAL LOGS
HOLE NO. 501

NO.	ISSUED PER REA 96-VAA054	DATE	DR	CHK	APPV	DTL	SCALE: NONE	DRAWING NO.	REV
							JOB NO. 10604	AX6DD379	0

BIRDWELL GEOPHYSICAL LOGS

HOLE NO. 502



SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

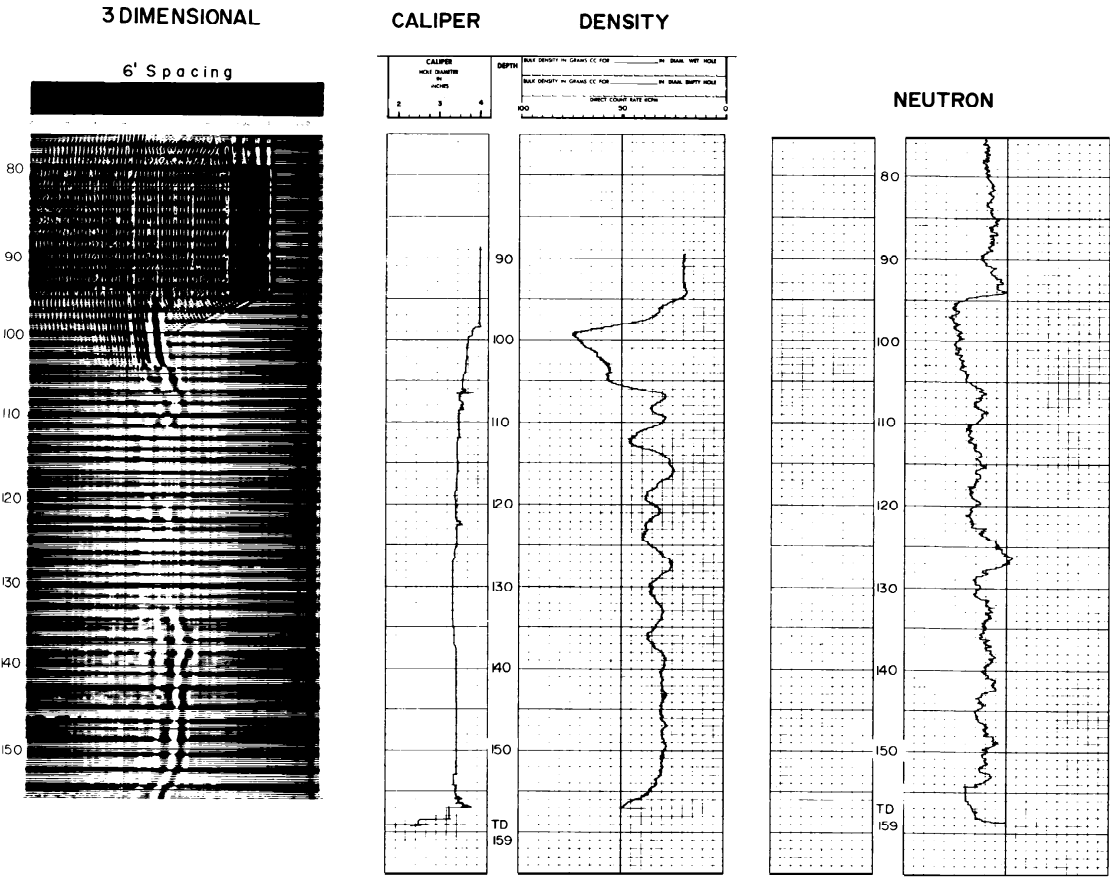
GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

GEOPHYSICAL LOGS
HOLE NO. 502

△							SCALE: NONE	DRAWING NO.	REV
△	ISSUED PER REA 96-VAA054	9-30-98	GS	RBH	CBH	WFP			
NO.	REVISIONS	DATE	DR	CHK	APPV	DTL	JOB NO. 10604	AX6DD380	0

BIRDWELL GEOPHYSICAL LOGS

HOLE NO. 509



SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

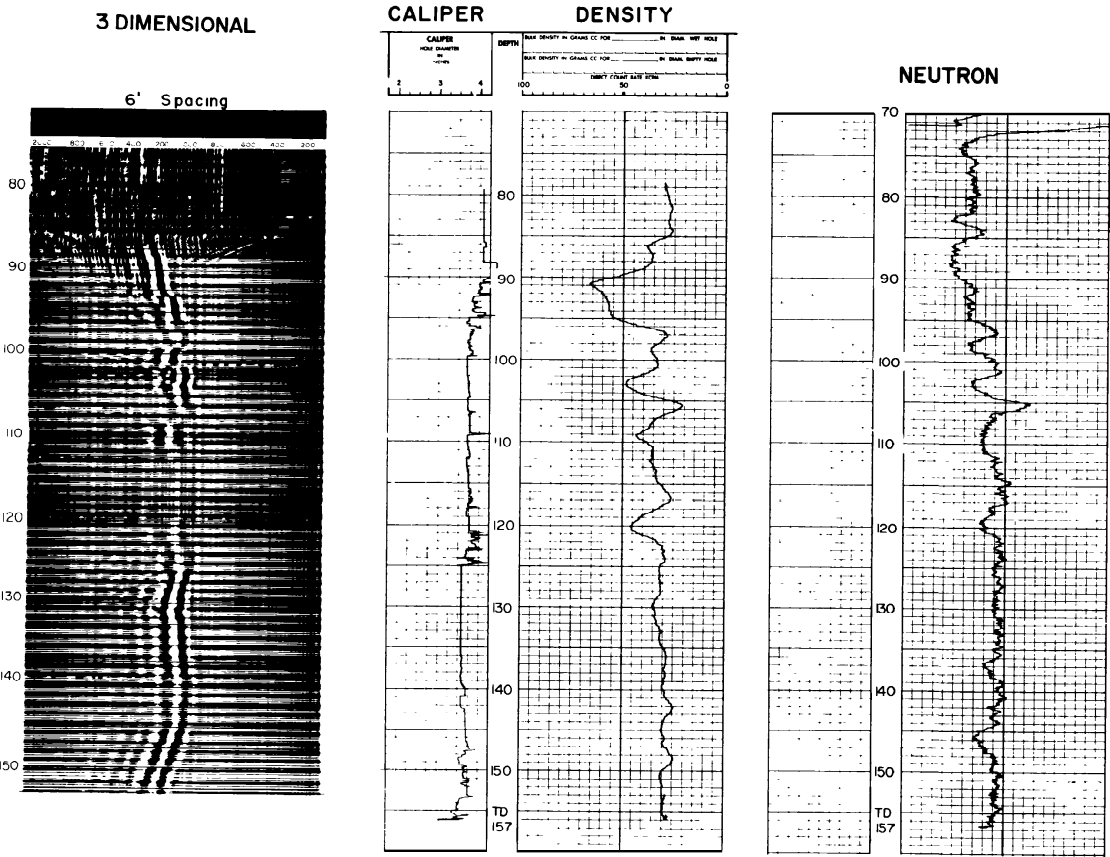
GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

GEOPHYSICAL LOGS
HOLE NO. 509

△							SCALE: NONE	DRAWING NO.	REV
△	ISSUED PER REA 96-VAA054	9-30-98	GS	RBH	CBH	WFP			
NO.	REVISIONS	DATE	DR	CHK	APPV	DTL	JOB NO. 10604	AX6DD381	0

BIRDWELL GEOPHYSICAL LOGS

HOLE NO. 513



SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

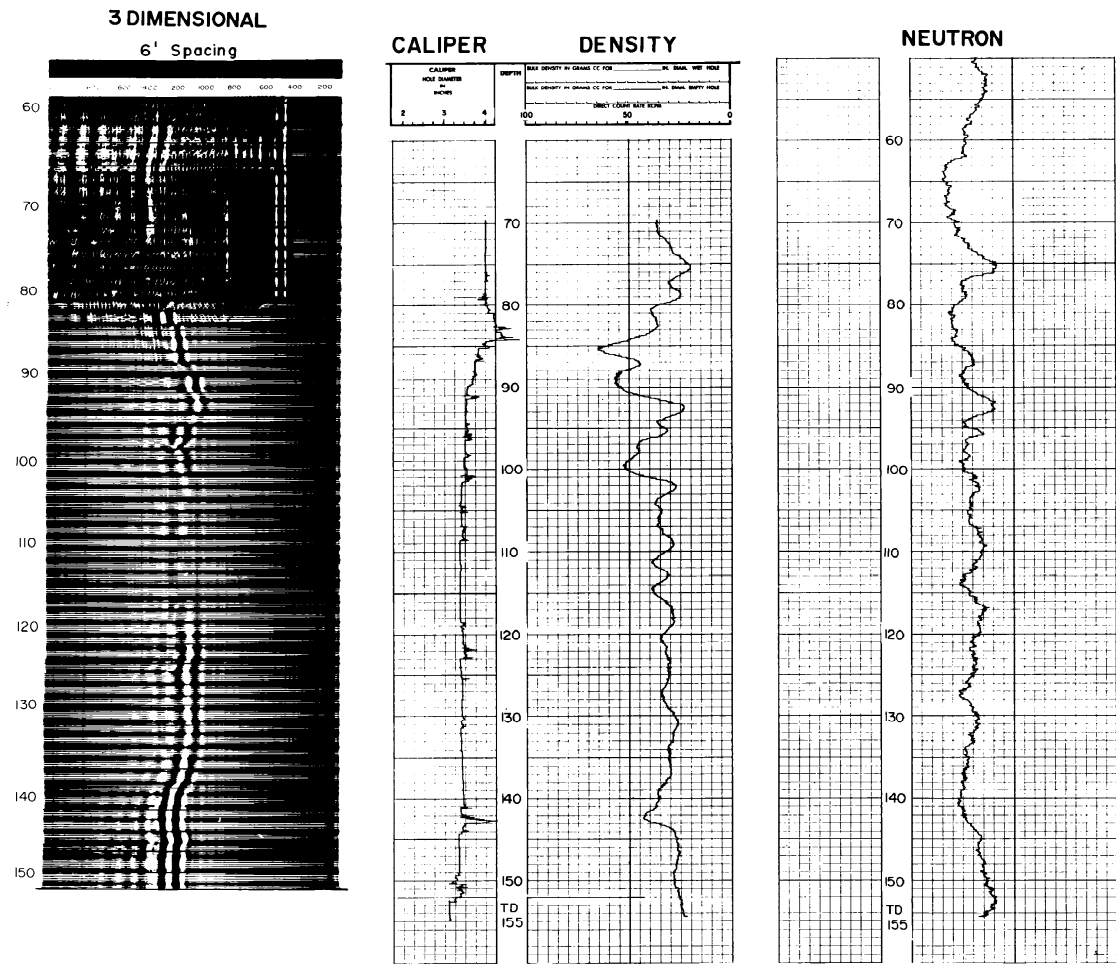
GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT


GEOPHYSICAL LOGS
HOLE NO. 513

△							SCALE: NONE	DRAWING NO.	REV
△	ISSUED PER REA 96-VAA054	9-30-98	GS	RBH	CBH	WFP			
NO.	REVISIONS	DATE	DR	CHK	APPV	DTL	JOB NO. 10604	AX6DD382	0

BIRDWELL GEOPHYSICAL LOGS

HOLE NO. 516



SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

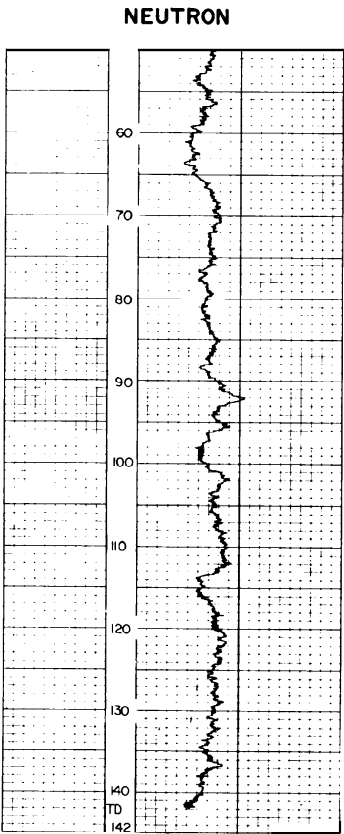
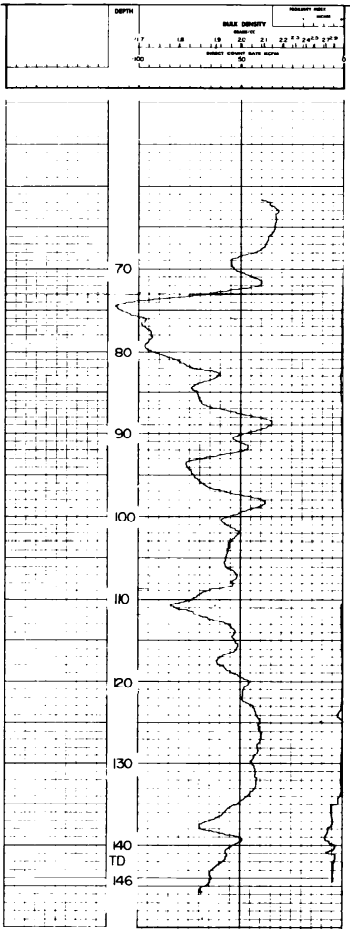
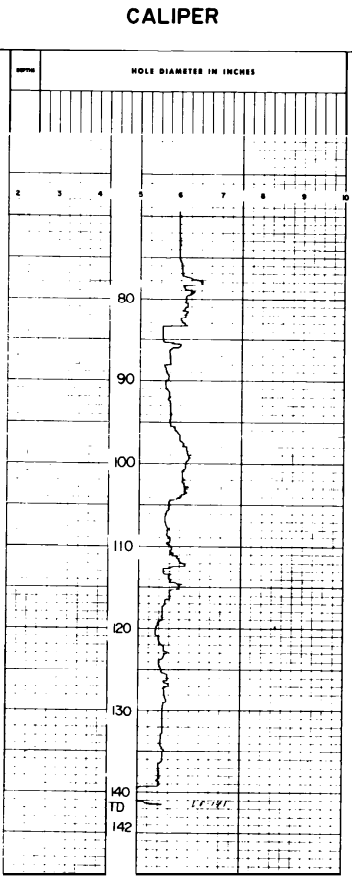
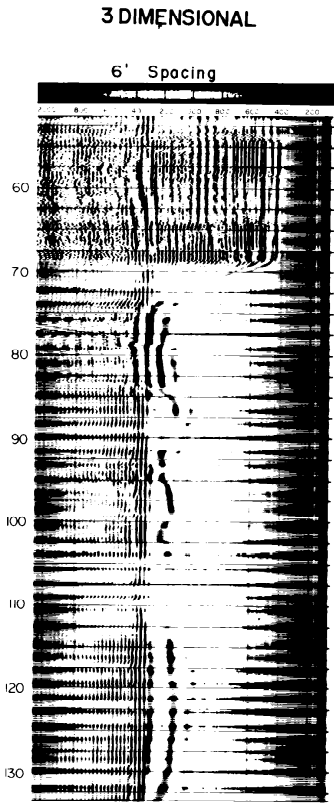
GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

GEOPHYSICAL LOGS
HOLE NO. 516

NO.	ISSUED PER REA 96-VAA054	DATE	DR	CHK	APPV	DTL	SCALE: NONE	DRAWING NO.	REV
							JOB NO. 10604	AX6DD383	0

BIRDWELL GEOPHYSICAL LOGS



HOLE NO. 523 DENSITY



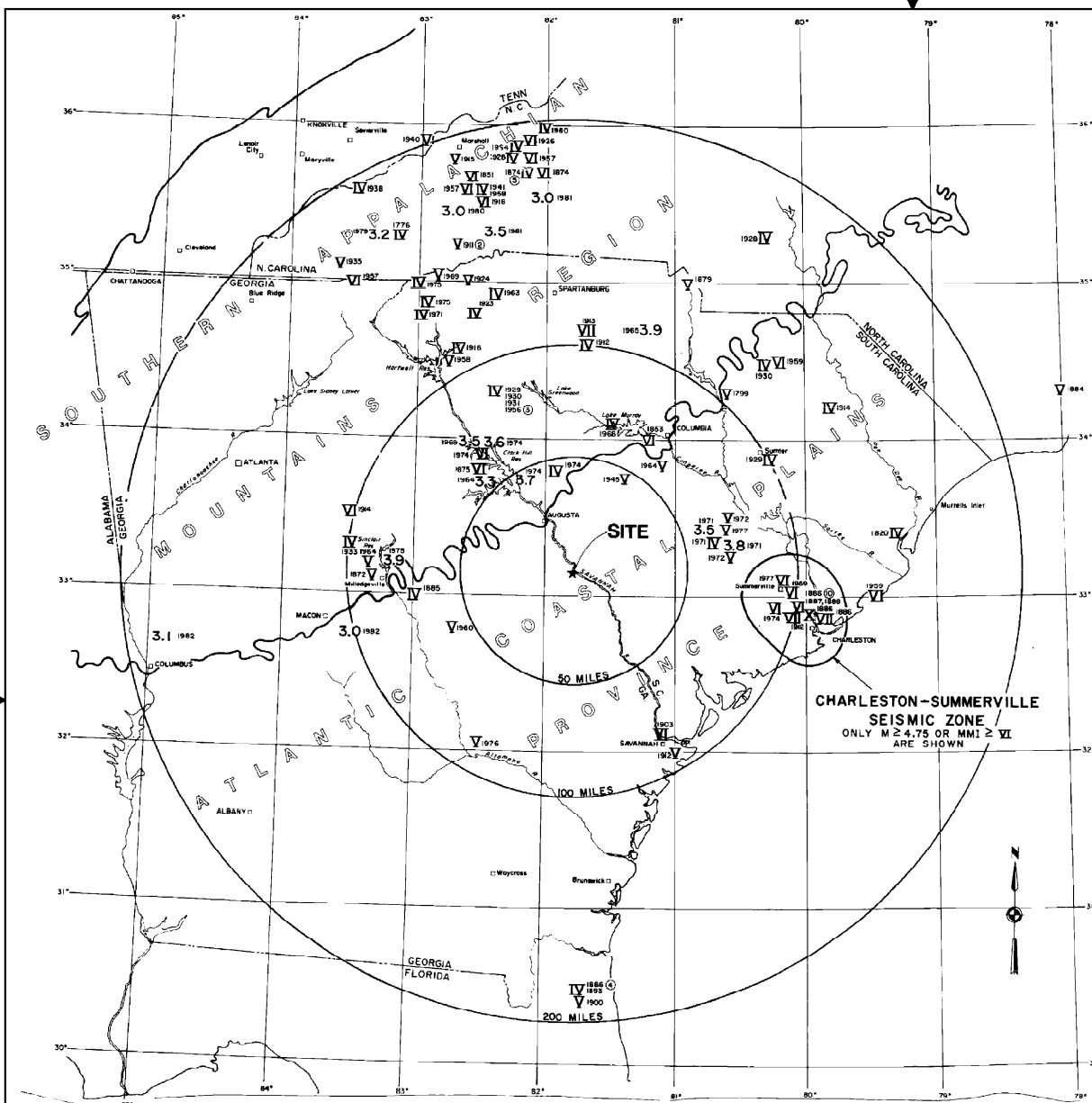
 SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

GEOPHYSICAL LOGS
HOLE NO. 523

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

SCALE: NONE	DRAWING NO.	REV
JOB NO. 10604	AX6DD384	0

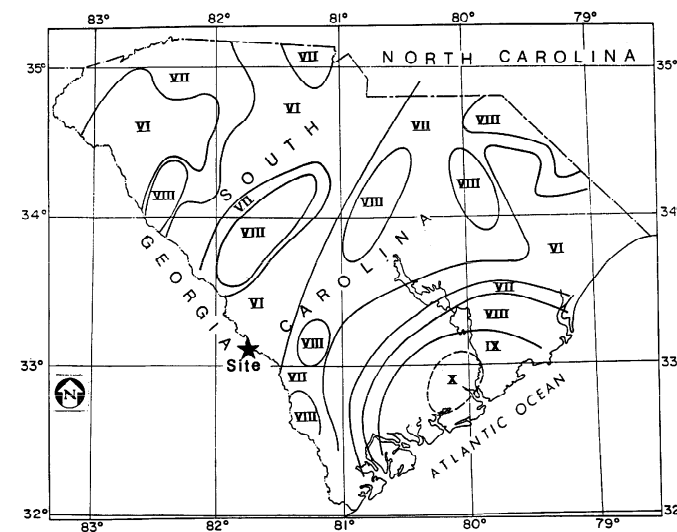


EXPLANATION

- Boundary of seismic source-areas used in site analysis.
 - V_{1972} Modified Mercalli intensity plotted at the earthquake epicenter. Year of occurrence noted with a small arabic numeral.
 - 3.3_{1979} Magnitude plotted at the earthquake epicenter. Year of occurrence noted as for intensity.
- All earthquakes between 1776 and 1982 with intensity greater than or equal to IX or magnitude greater than or equal to 3.0 are shown. When both magnitude and intensity data were available, epicentral intensity was plotted.
- Epicentral coordinates and a list of sources cited are in Table 2.5.2-1.
- Circled numbers indicate multiple occurrences at the same location.

0 10 20 30 40 50 Miles
SCALE

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



ISOSEISMAL MAP

0 25 50 Miles
0 25 50 Kilometers

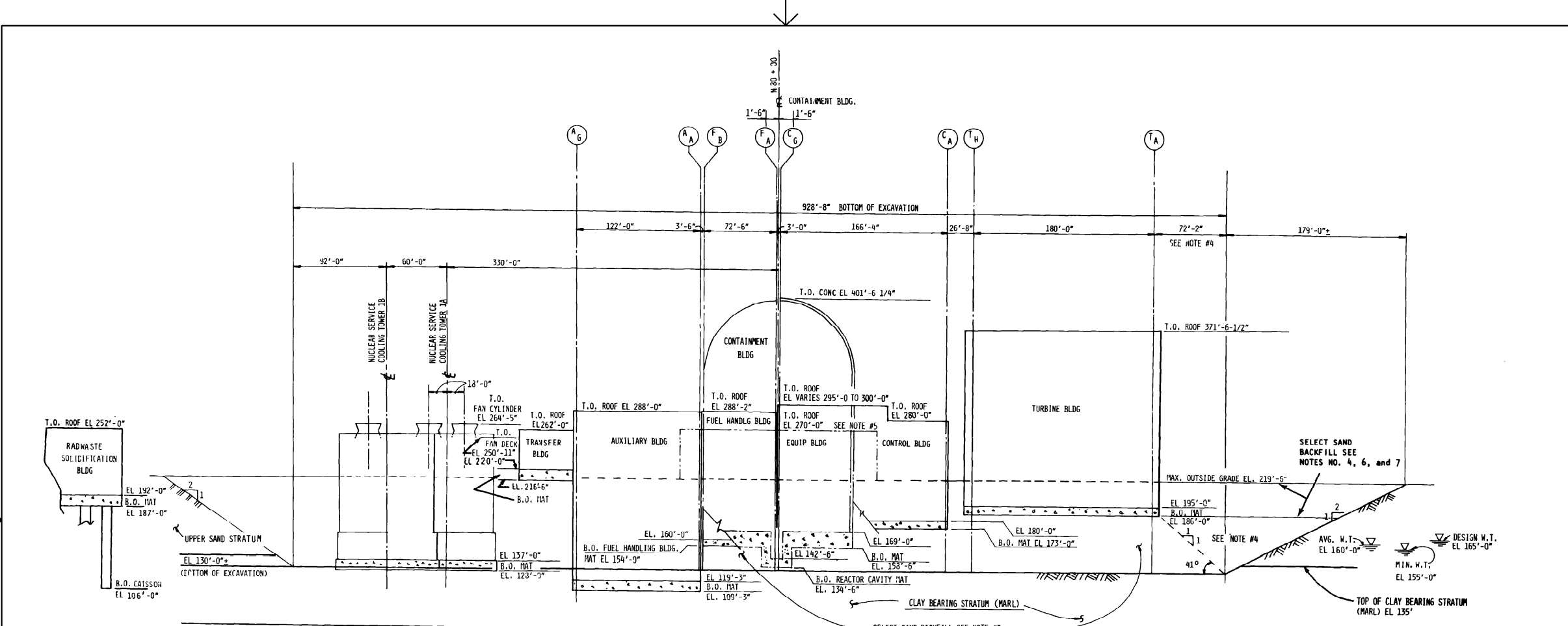
EXPLANATION

Detailed isoseismal map for the State of South Carolina for the 1886 Charleston earthquake.

REFERENCE:

G. A. Bollinger, 1977.

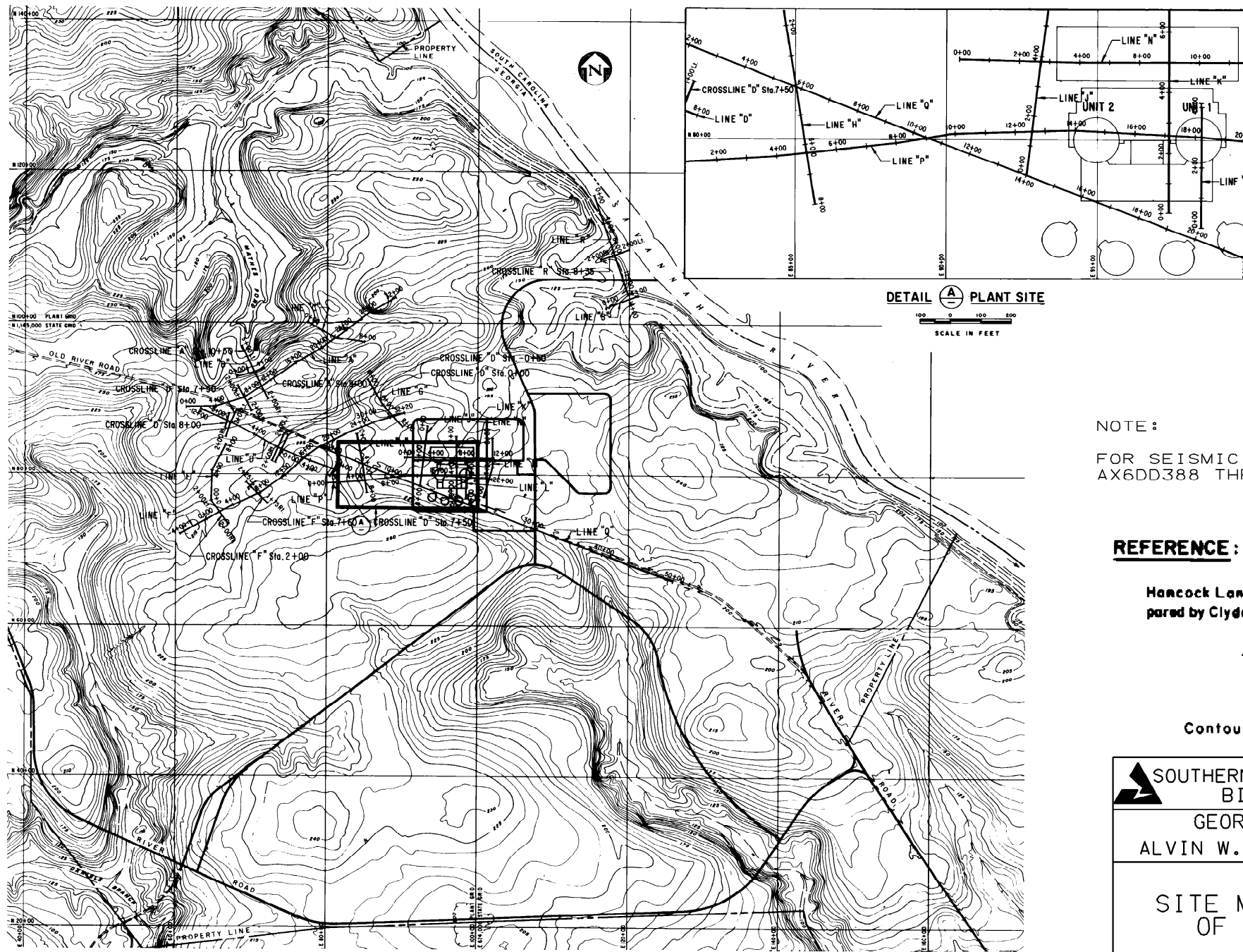
SOUTHERN COMPANY SERVICES, INC. BIRMINGHAM, ALABAMA		
GEORGIA POWER COMPANY ALVIN W. VOGTLE NUCLEAR PLANT		
SIGNIFICANT SEISMICITY 1776-1982		
SCALE: NONE	DRAWING NO.	REV.
JOB NO. 10604	AX6DD385	0



- NOTES
- 1 WT = WATER TABLE
 - 2 FOR SEISMIC SHEAR WAVE VELOCITIES, SEE UFSAR TABLE 2.5.4-5
 - 3 BECAUSE OF THE POSSIBILITY OF LIQUEFACTION OF THE SANDS ABOVE THE CLAY BEARING STRATUM UNDER A.W.S.E., THE SOILS WILL BE REMOVED TO APPROXIMATELY EL. 130'-0" WITHIN THE LIMITS SHOWN AND REPLACED WITH SELECT SAND FILL COMPACTED TO 97 PERCENT OF THE MAXIMUM DENSITY DETERMINED BY ASTM DESIGNATION D1557 EXCEPT IN THE AREAS WHERE LEAN CONCRETE IS DESIGNATED SEE **NOTES 4, 6, 7.**
 - 4 DUE TO REMOTENESS FROM CATEGORY 1 STRUCTURES AND LOCATION ABOVE WATER TABLE, SELECT SAND BACKFILL NORTH OF THE TURBINE BUILDING AND ABOVE ELEVATION 185'-6" WILL BE COMPACTED TO 95% OF MAXIMUM DENSITY DETERMINED BY ASTM DESIGNATION D1557
 - 5 REQUIRED SLOPE = 1:1 MIN. AND THIS SLOPE SHOULD BE 1-1/2 HORIZONTAL TO 1 VERTICAL IF THE ADJACENT FILL IS NOT PLACED AT THE SAME TIME
 - 6 DUE TO REMOTENESS FROM CATEGORY 1 STRUCTURES AND LOCATION ABOVE WATER TABLE CATEGORY 2 MATERIAL COMPACTED TO 95% OF THE MAXIMUM DENSITY DETERMINED BY ASTM D1557 WILL BE PLACED ABOVE THE IN-SITU SLOPES FORMING THE WEST SIDE OF THE POWER BLOCK EXCAVATION ABOVE 206
 - 7 UP TO 24 IN. OF GRADED AGGREGATE MATERIAL COMPACTED TO 97% OF THE MAXIMUM DENSITY DETERMINED IN ACCORDANCE WITH ASTM D1557 WILL BE SUBSTITUTED FOR SAND AND SILTY SAND BACKFILL AS THE FILL IS BROUGHT TO GRADE
 - 8 APPROXIMATELY 2.5 FT. OF UNDOCUMENTED FILL HAS BEEN LEFT IN PLACE BENEATH A CONCRETE SLAB LOCATED AT GRADE ABOVE THE IN-SITU EXCAVATION SLOPE SOUTH OF THE UNIT 2 NSCW TOWERS.

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

SOUTHERN COMPANY SERVICES, INC. BIRMINGHAM, ALABAMA		
GEORGIA POWER COMPANY ALVIN W. VOGTLE NUCLEAR PLANT		
POWER BLOCK CROSS-SECTION		
SCALE: NONE	DRAWING NO.	REV
JOB NO. 10604	AX6DD386	0



NOTE:

FOR SEISMIC PROFILES SEE DRAWINGS
AX6DD388 THRU AX6DD393

REFERENCE:

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

SCALE IN FEET

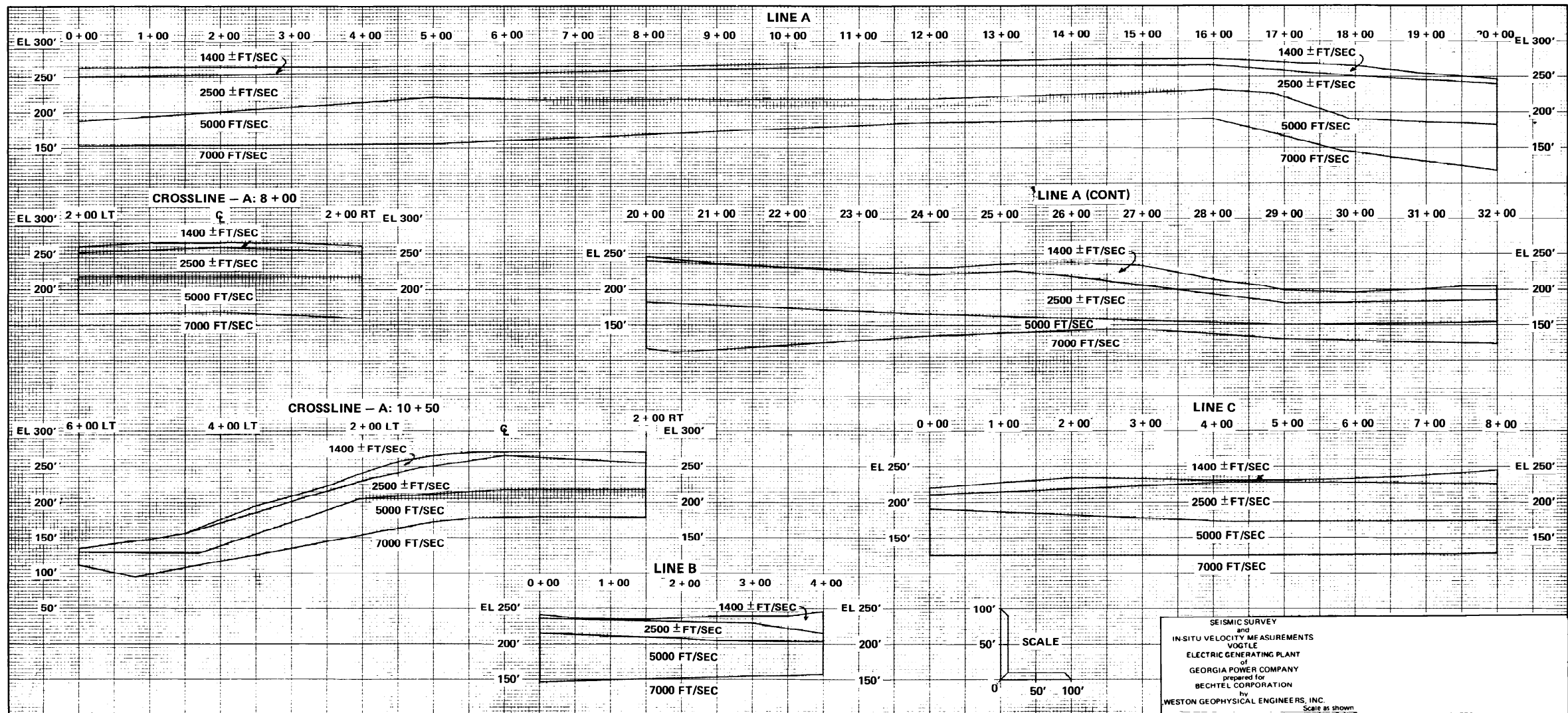
Contour intervals 5 ft. and 25 ft.

SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

**SITE MAP AND LOCATION
OF SEISMIC LINES**

NO.	ISSUED PER REA 96-VAA054	9-30-98	GS	RBH	CBH	WFP	SCALE: NONE	DRAWING NO.	REV
							JOB NO. 10604	AX6DD387	0



NOTE:
1. FOR PROFILE LOCATIONS SEE DRAWING AX6DD387.

SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

SEISMIC PROFILES
LINES A, B, AND C

SCALE: NONE

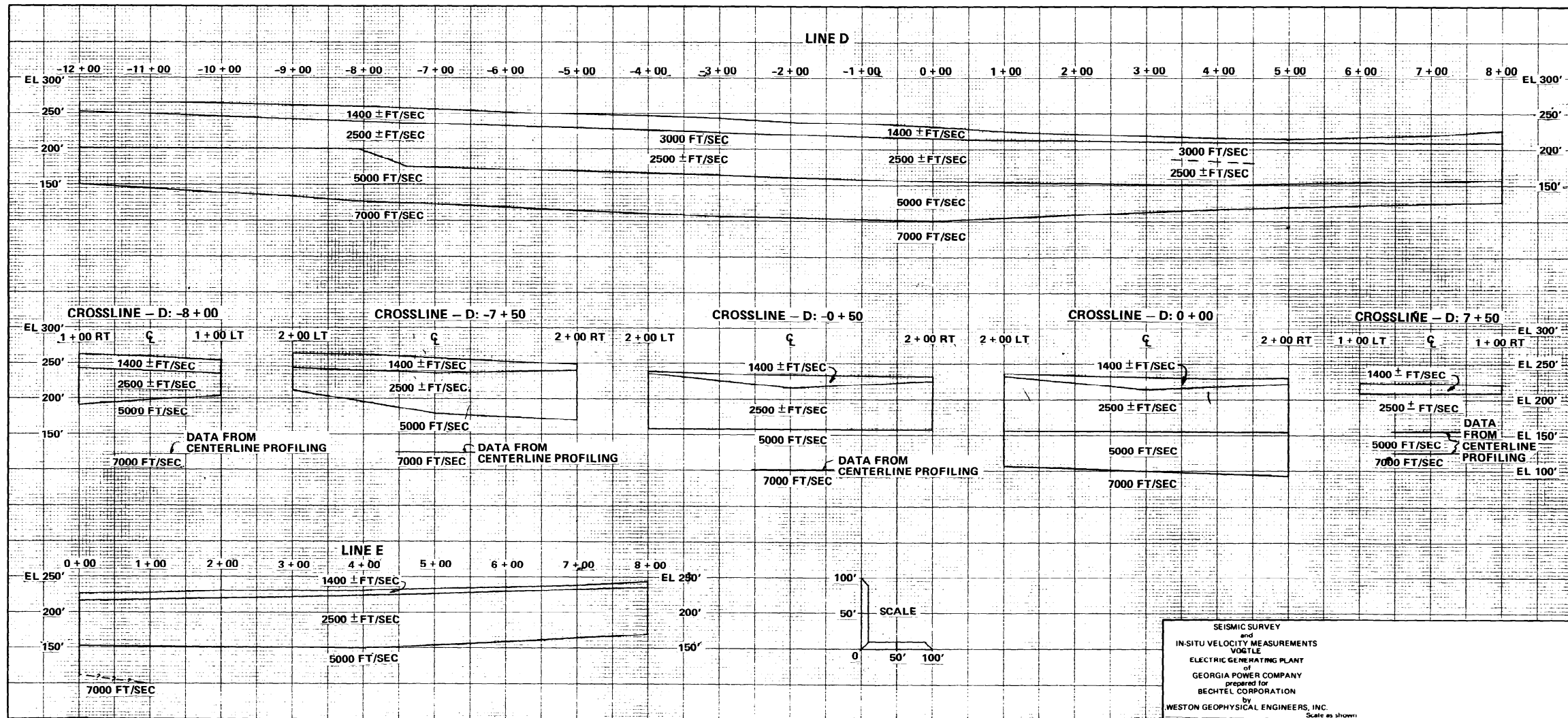
DRAWING NO.

REV

JOB NO. 10604

AX6DD388

0



NOTE:

1. FOR PROFILE LOCATIONS SEE
DRAWING AX6DD387.

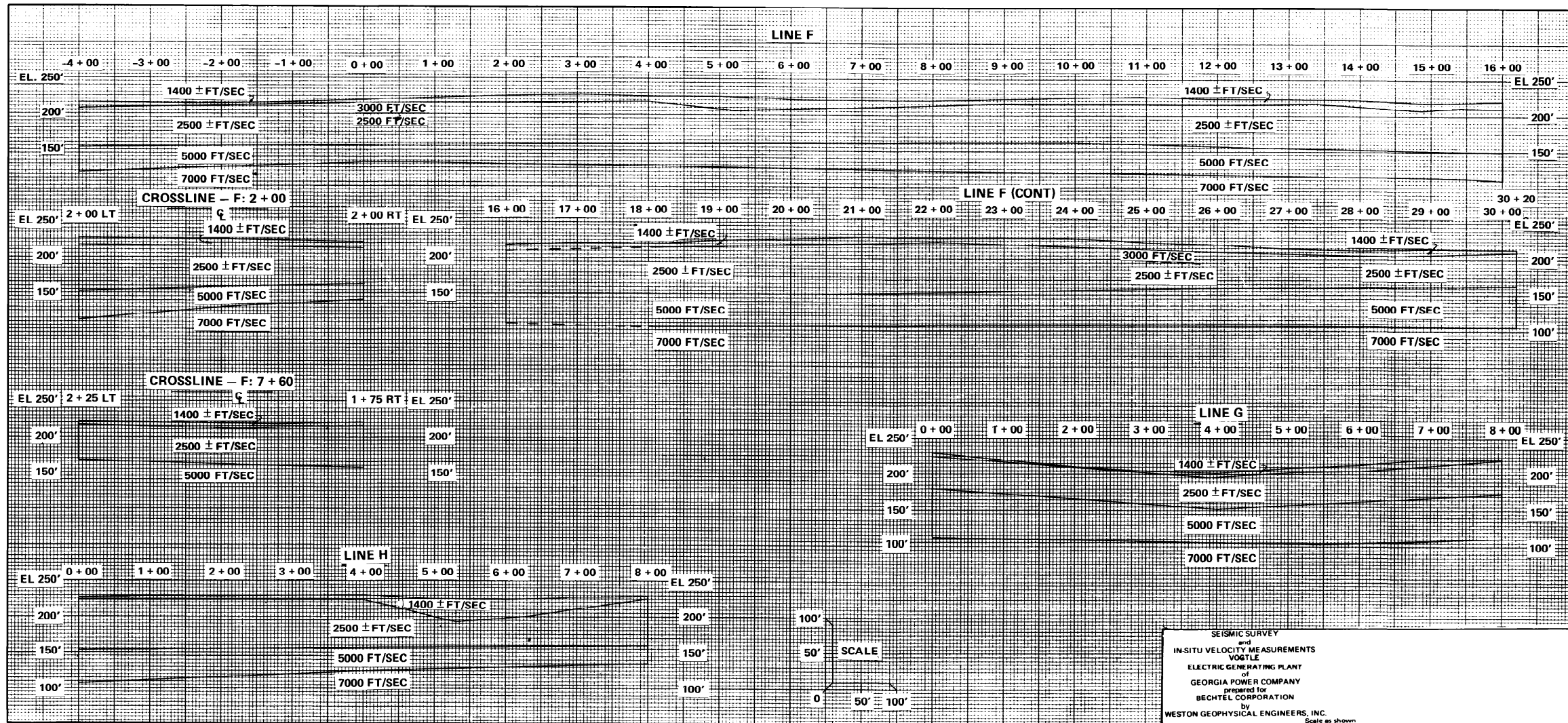
SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

SEISMIC PROFILES
LINES D AND E

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

SCALE: NONE	DRAWING NO.	REV
JOB NO. 10604	AX6DD389	0



NOTE:

1. FOR PROFILE LOCATIONS SEE
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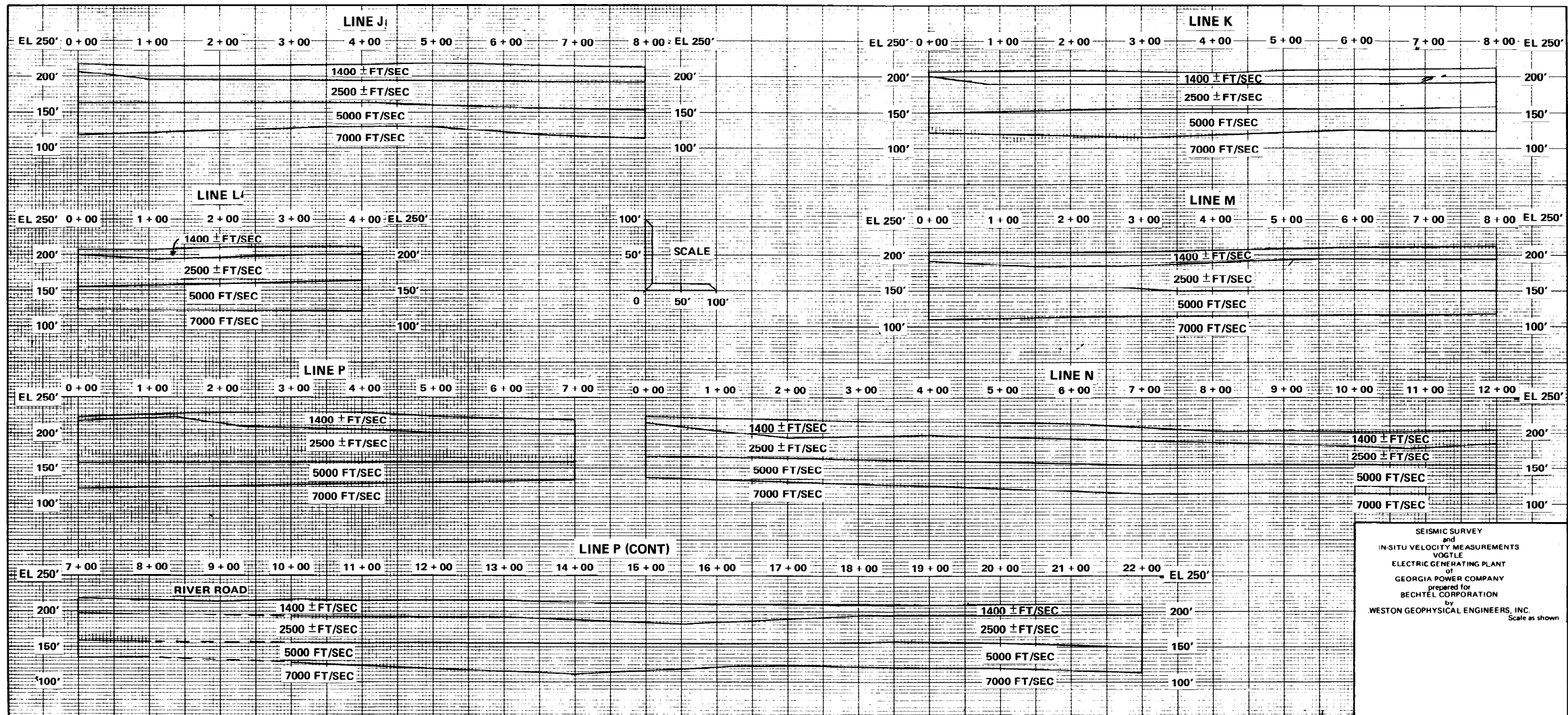
SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

SEISMIC PROFILES
LINES F, G AND H

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

SCALE: NONE	DRAWING NO.	REV
JOB NO. 10604	AX6DD390	0





NOTE:

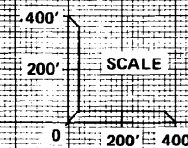
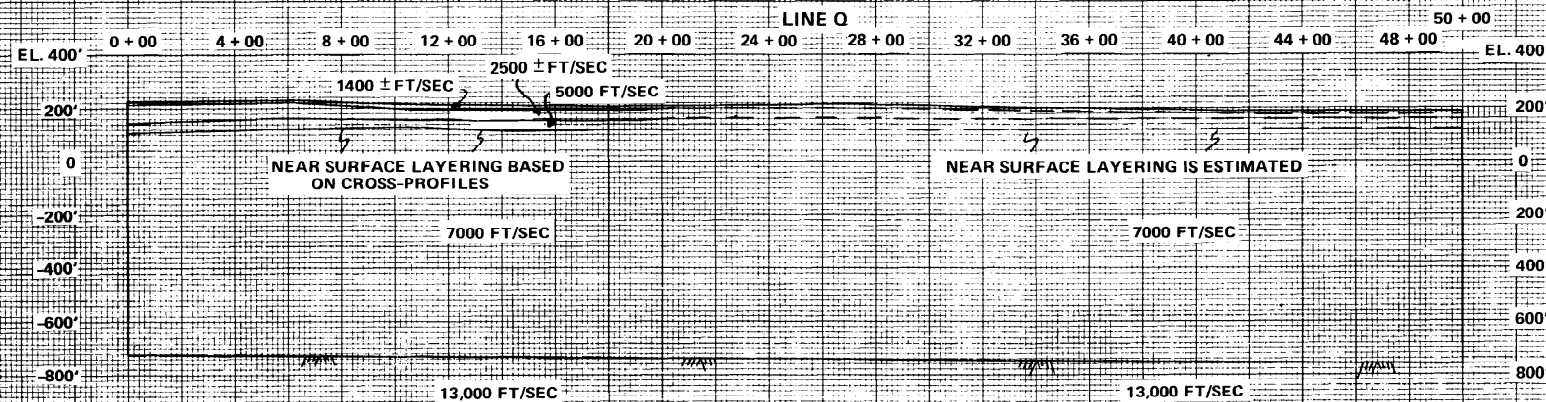
1. FOR PROFILE LOCATIONS SEE
DRAWING AX6DD387.

 SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

SEISMIC PROFILES
LINES J, K, L, M, N AND P

							SCALE: NONE	DRAWING NO.	REV
	ISSUED PER REA 96-VAA054	9-30-98	GS	RBH	CBH	WFP			
NO.	REVISIONS	DATE	DR	CHK	APPV	DTL	JOB NO. 10604	AX6DD391	0





SEISMIC SURVEY
and
IN-SITU VELOCITY MEASUREMENTS
VOGTLE
ELECTRIC GENERATING PLANT
of
GEORGIA POWER COMPANY
prepared for
BECHTEL CORPORATION
by
WESTON GEOPHYSICAL ENGINEERS, INC.
Scale as shown

NOTE:
1. FOR PROFILE LOCATIONS SEE
DRAWING AX6DD387.

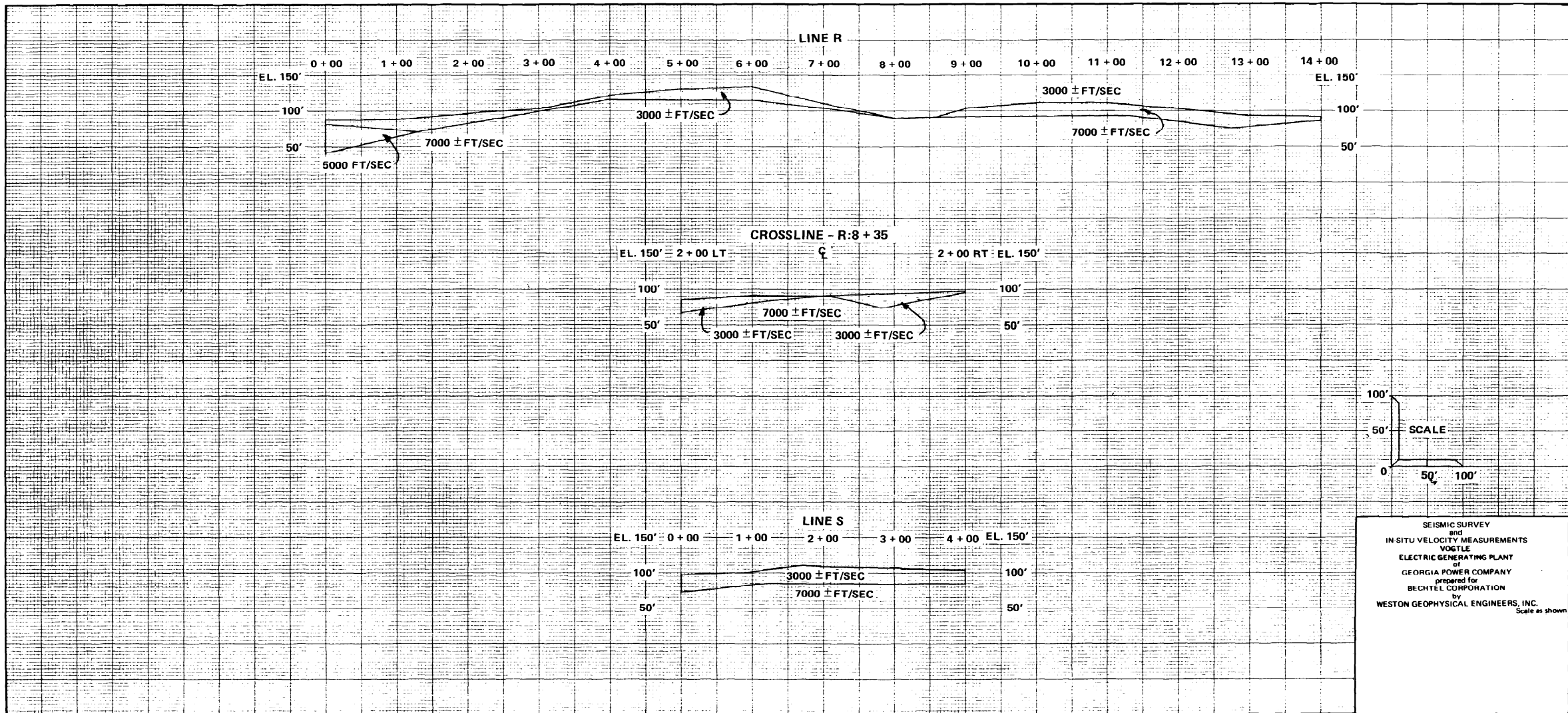
 SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

SEISMIC PROFILES
LINE Q

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

SCALE: NONE	DRAWING NO.	REV
JOB NO. 10604	AX6DD392	0



SEISMIC SURVEY
and
IN-SITU VELOCITY MEASUREMENTS
VOGTLE
ELECTRIC GENERATING PLANT
of
GEORGIA POWER COMPANY
prepared for
BECHTEL CORPORATION
by
WESTON GEOPHYSICAL ENGINEERS, INC.
Scale as shown

NOTE :

1. FOR PROFILE LOCATIONS SEE
DRAWING AX6DD387.



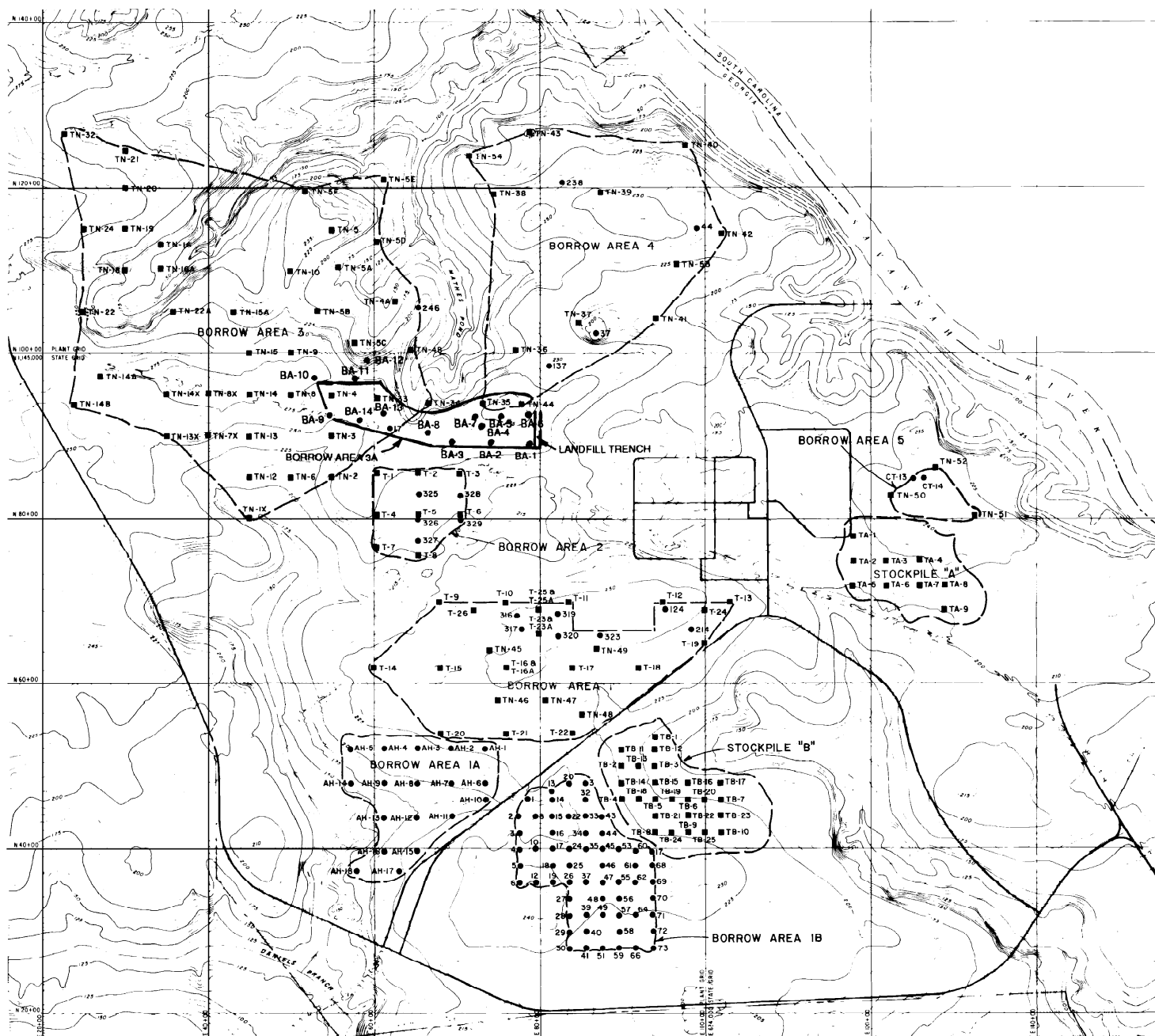
SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

SEISMIC PROFILES
LINES R AND S

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

SCALE: NONE	DRAWING NO.	REV
JOB NO. 10604	AX6DD393	0



EXPLANATION

- TA-1 TEST PIT
- 20 BORING


REFERENCE:

Hancock Landing Project topographic map prepared by Clyde N. Eldridge Aerial Surveys, Feb. 25/1971

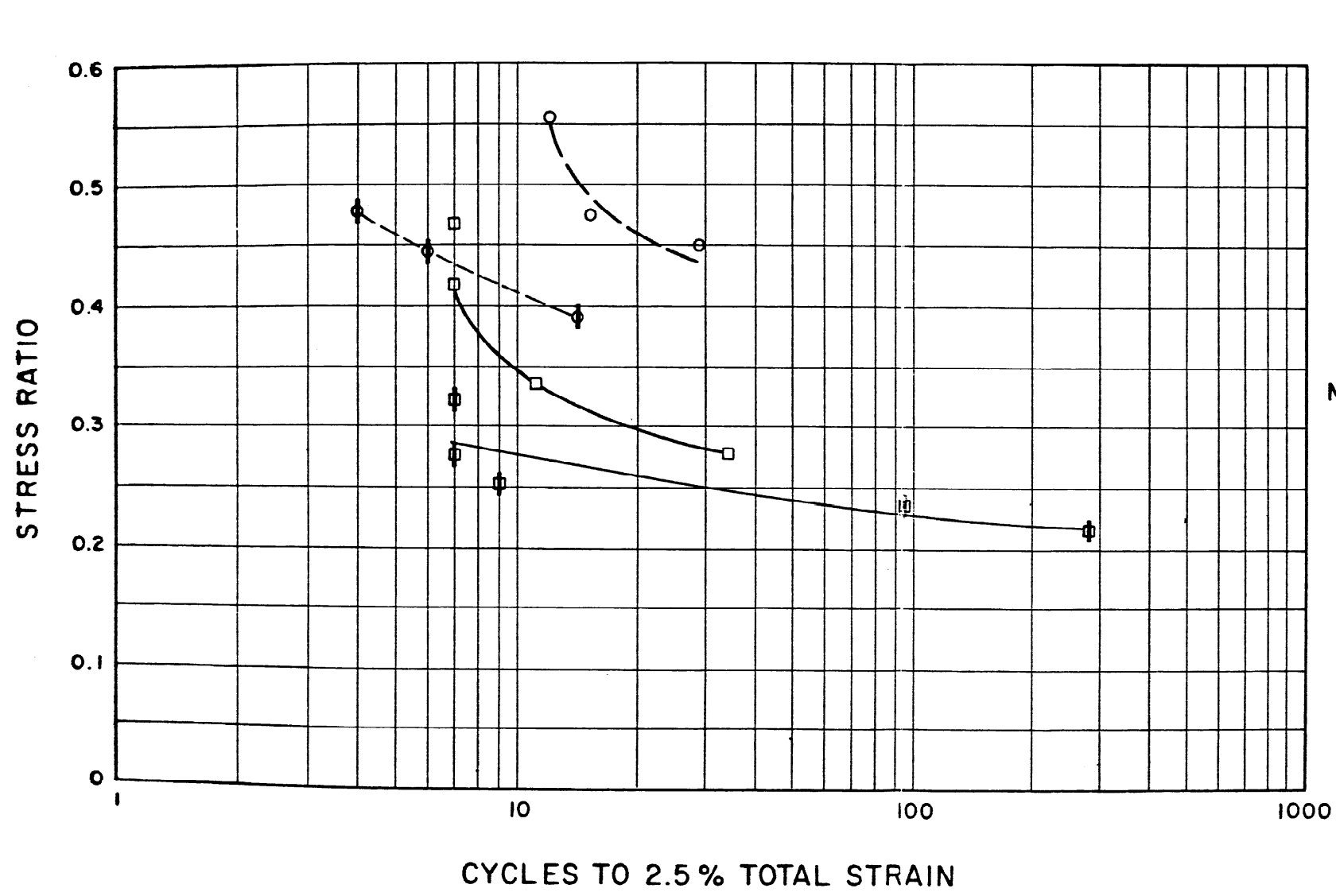


SCALE IN FEET

Contour intervals 5 ft. and 25 ft.

	SOUTHERN COMPANY SERVICES, INC. BIRMINGHAM, ALABAMA	
	GEORGIA POWER COMPANY ALVIN W. VOGTLE NUCLEAR PLANT	
	BORING AND TEST PIT LOCATIONS IN BORROW AREAS AND STOCKPILES PLAN	


NO.	ISSUED PER REA 96-VAA054	REVISIONS	DATE	DR	CHK	APPV	DTL	SCALE: NONE	DRAWING NO.	REV
								JOB NO. 10604	AX6DD394	0



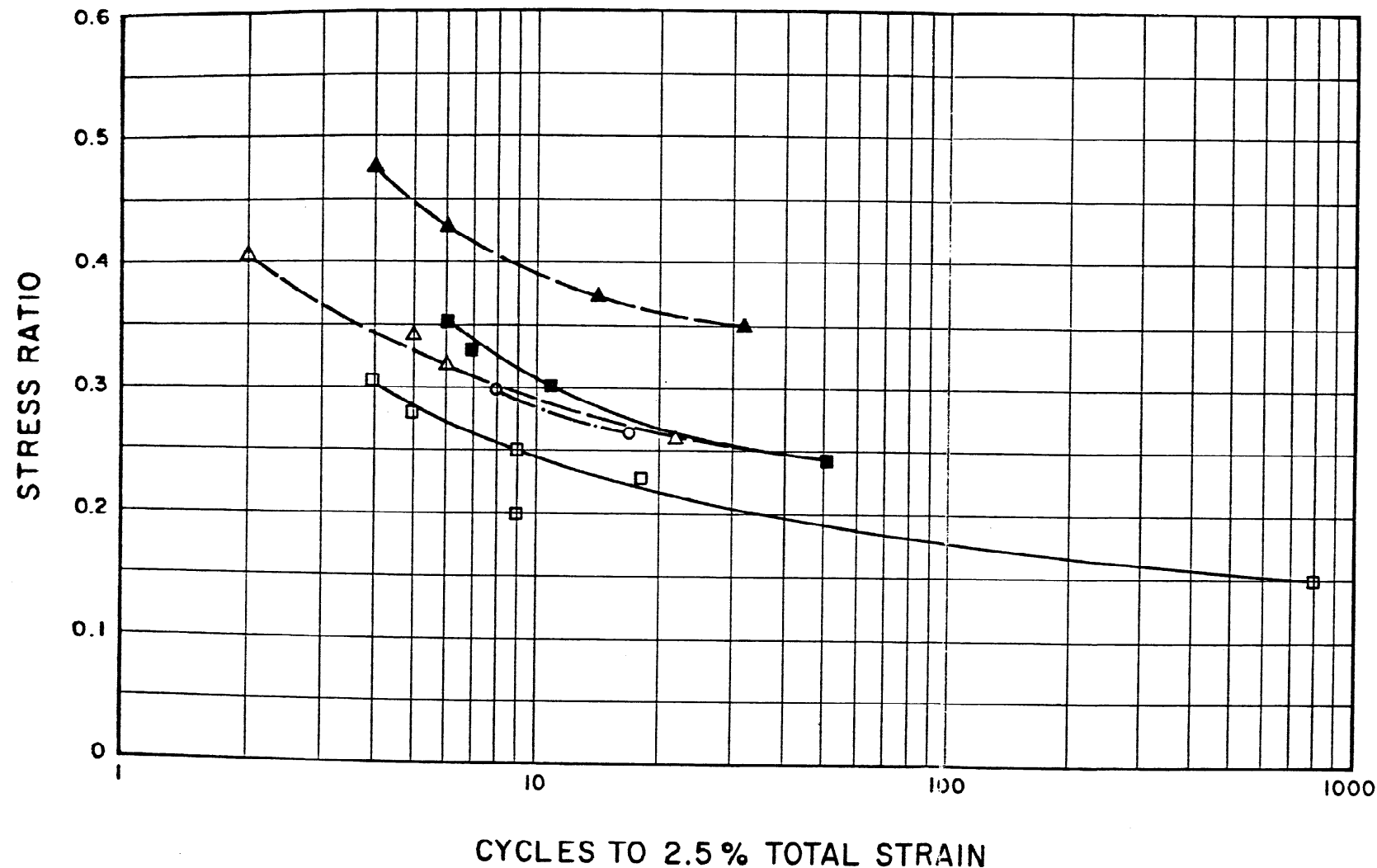
- ⊕ Sand with 1.5 % fines compacted to 93 % maximum density
- Sand with 1.5 % fines compacted to 95 % maximum density
- ⊕ Silty sand with 11.9 % fines compacted to 93 % maximum density
- Silty sand with 11.9 % fines compacted to 95 % maximum density

NOTES:

1. All samples compacted to specified density by ASTM D-1557
2. Test data relate to samples obtained from Stockpile "A"

 SOUTHERN COMPANY SERVICES, INC. BIRMINGHAM, ALABAMA		
GEORGIA POWER COMPANY ALVIN W. VOGTLE NUCLEAR PLANT		
RESULTS OF CYCLIC TRIAXIAL TESTS (93- AND 95-PERCENT RELATIVE COMPACTION)		
SCALE: NONE	DRAWING NO.	REV
JOB NO. 10604	AX6DD395	0

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



- Sand with 3 % fines compacted to 95 % maximum density
- Sand with 3 % fines compacted to 97 % maximum density
- △ Clayey sand with 25 % fines compacted to 95% maximum density
- ▲ Clayey sand with 25 % fines compacted to 97 % maximum density
- Silty sand with 11 % fines compacted to 95 % maximum density



NOTES:

1. All samples compacted to specified density by ASTM D-1557
2. Test data relate to samples obtained from Borrow Area I

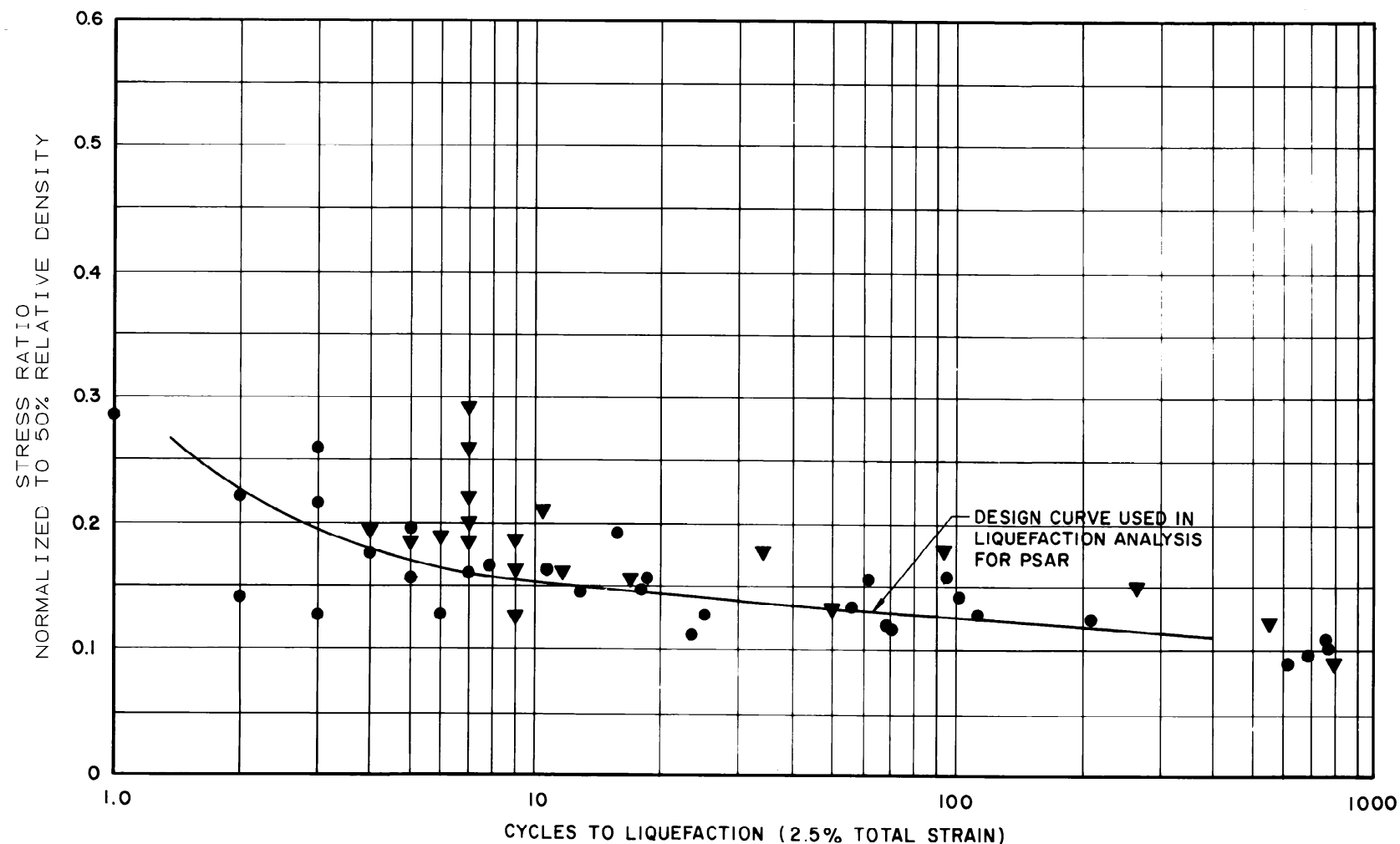
 SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

RESULTS OF CYCLIC TRIAXIAL
TESTS (95- AND 97-PERCENT
RELATIVE COMPACTION)

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

SCALE: NONE	DRAWING NO.	REV
JOB NO. 10604	AX6DD396	0

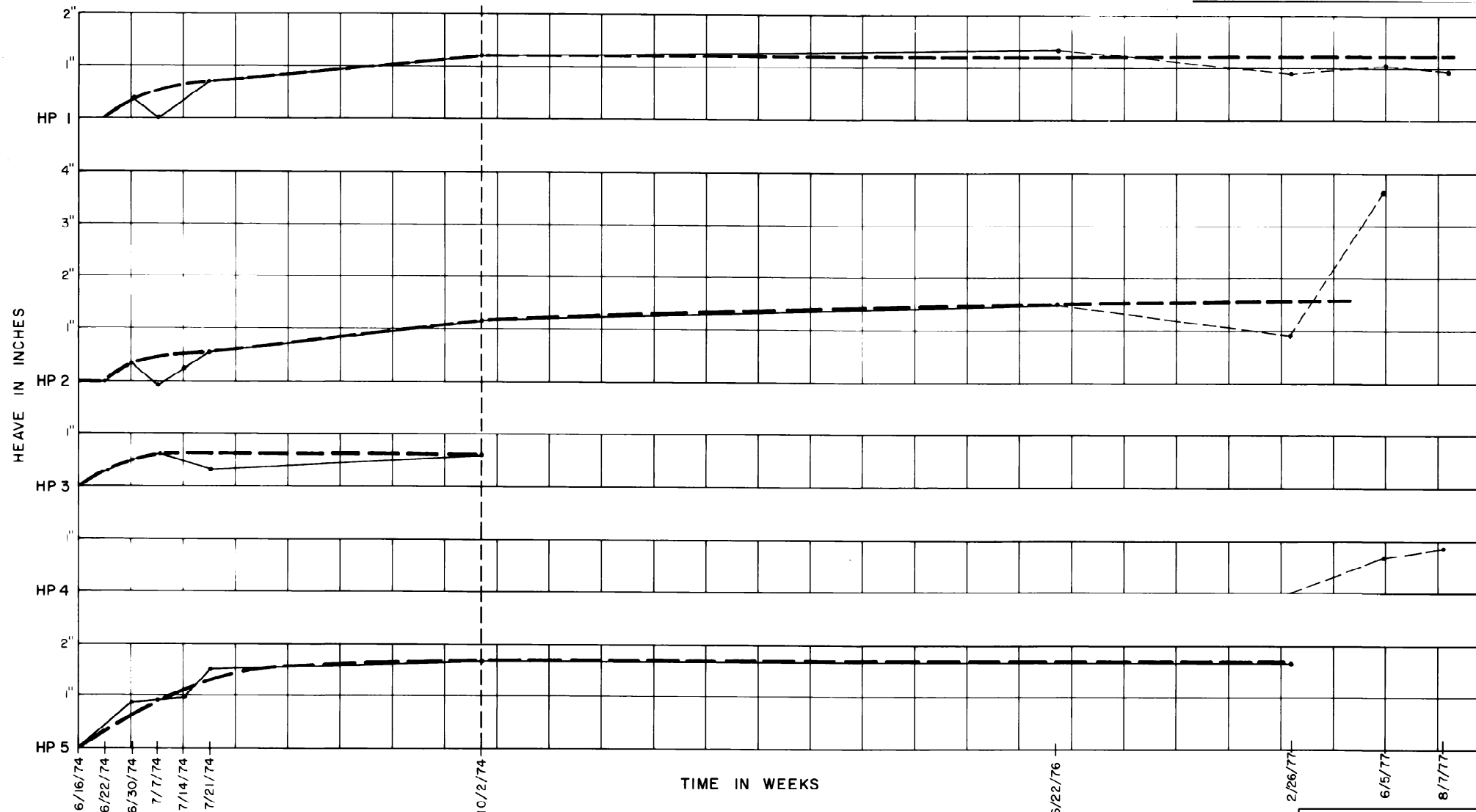


NOTES:

- ▼ DATA OBTAINED DURING INVESTIGATIONS FOR BORROW SOURCES.
- DATA OBTAINED DURING PSAR INVESTIGATIONS.

SOUTHERN COMPANY SERVICES, INC.
 BIRMINGHAM, ALABAMA
 GEORGIA POWER COMPANY
 ALVIN W. VOGTLE NUCLEAR PLANT
 CYCLIC TRIAXIAL TEST DATA
 NORMALIZED TO 50-PERCENT
 RELATIVE DENSITY


△							SCALE: NONE	DRAWING NO.	REV
△	ISSUED PER REA 96-VAA054	9-30-98	GS	RBH	CBH	WFP			
NO.	REVISIONS	DATE	DR	CHK	APPV	DTL	JOB NO. 10604	AX6DD398	0

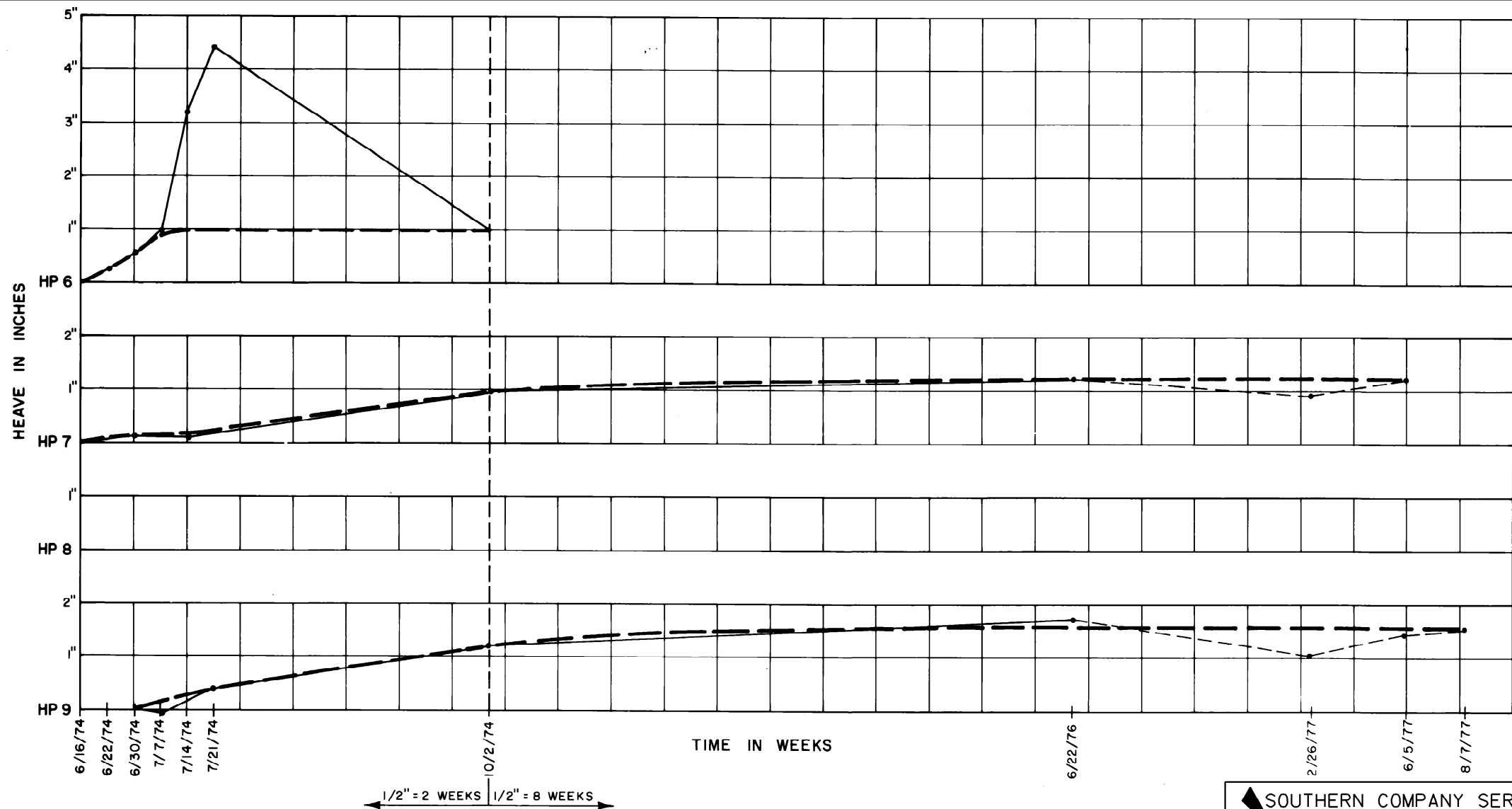


NOTE:

- ORIGINAL FIELD DATA
- - - QUESTIONABLE ORIGINAL FIELD DATA
- . - . AVERAGE CURVE ASSUMING HEAVE INCREASES OR STAYS CONSTANT WITH TIME

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

 SOUTHERN COMPANY SERVICES, INC. BIRMINGHAM, ALABAMA		
GEORGIA POWER COMPANY ALVIN W. VOGTLE NUCLEAR PLANT		
PLOT OF HEAVE VERSUS TIME		
SCALE: NONE	DRAWING NO.	REV
JOB NO. 10604	AX6DD399	0



NOTE:

- ORIGINAL FIELD DATA
- - - QUESTIONABLE ORIGINAL FIELD DATA
- - - AVERAGE CURVE ASSUMING HEAVE INCREASES OR STAYS CONSTANT WITH TIME

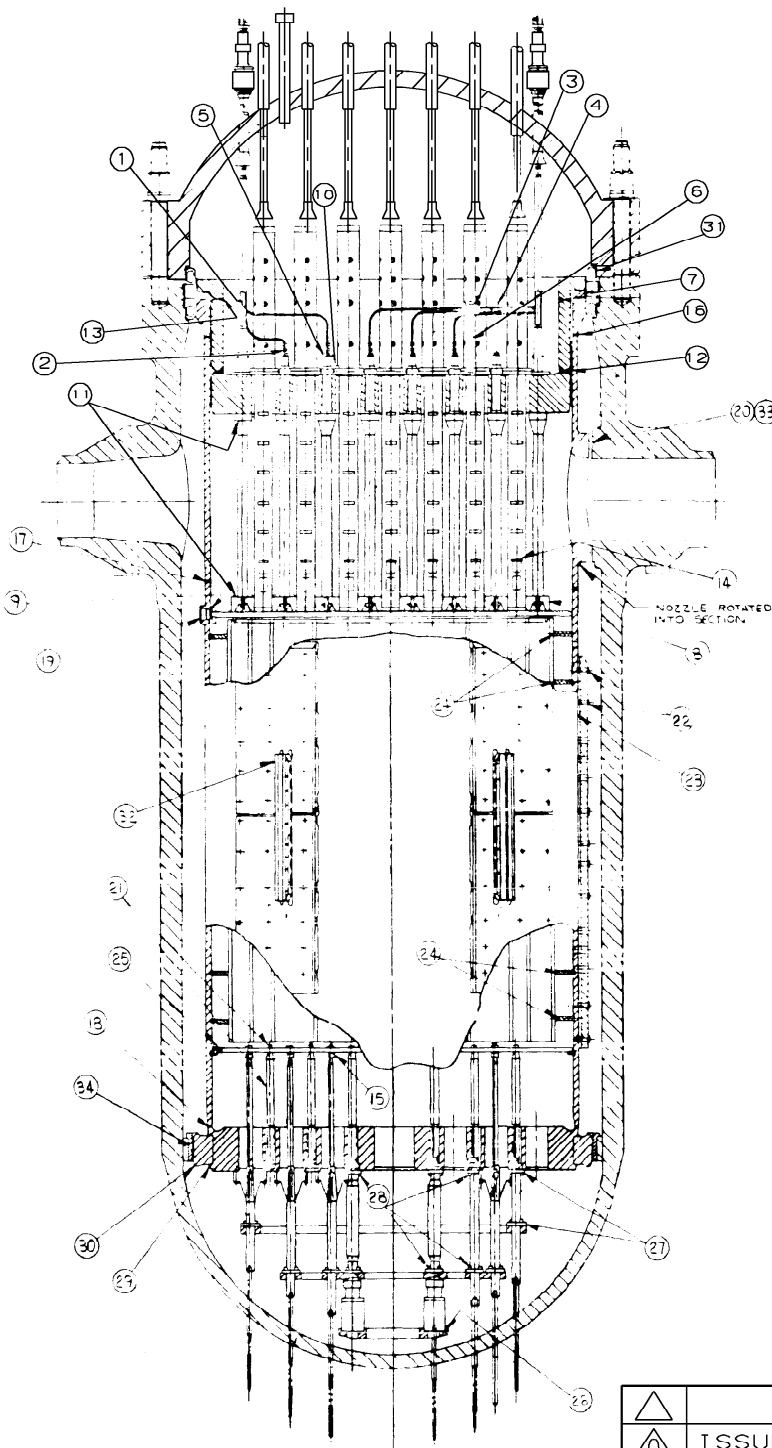
SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

PLOT OF HEAVE
VERSUS TIME

SCALE: NONE	DRAWING NO.	REV
JOB NO. 10604	AX6DD400	0

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



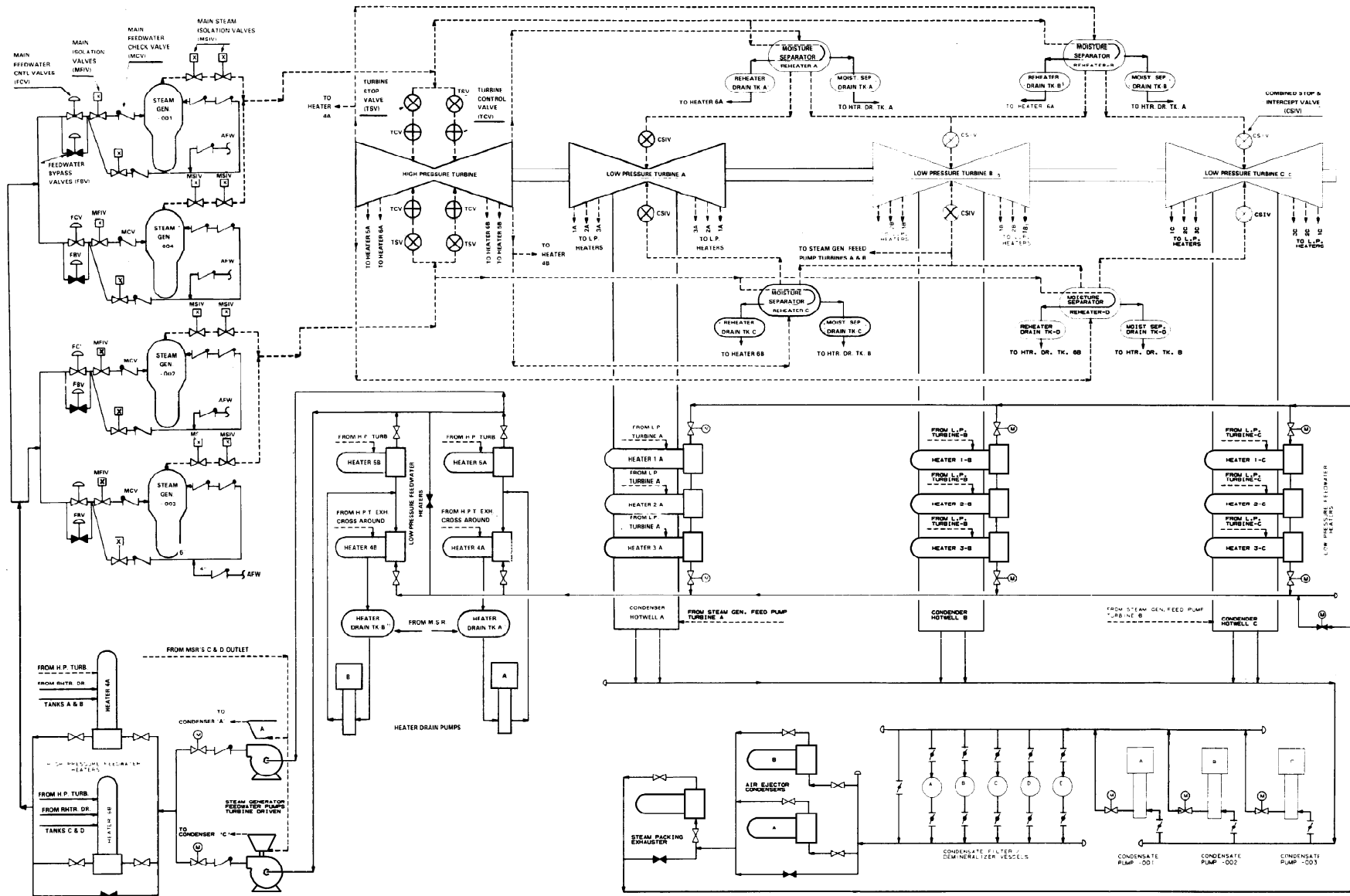
SEE NOTES	STEP	FEATURES TO BE EXAMINED
1	1	THERMOCOUPLE CONDUIT CLAMPS INSIDE THE THERMOCOUPLE COLUMN
1, 5	2	CONDUIT SWAGE LOCK FITTINGS, THEIR BANDINGS, AND THE TAB TYPE LOCKS
1	3	CLAMP ARRANGEMENTS AT THE MOUNTING BRACKET LOCATIONS
1	4	CONDUIT CLAMP WELDS
1	5	UPPER SUPPORT COLUMN NUT TO EXTENSION WELDS
1	6	ACCESSIBLE CONDUIT SUPPORT BRACKET WELDS
6	7	HOLD DOWN SPRING INTERFACE SURFACE CONDITION
1	8	ACCESSIBLE WELDS ON SUPPORT COLUMN LOWER NOZZLES
3, 6	9	UPPER CORE PLATE INSERTS
2	10	THERMOCOUPLE COLUMN AND GUIDE TUBE SCREW LOCKING DEVICES
2	11	ACCESSIBLE SUPPORT COLUMN, AND CORE PLATE INSERT SCREW LOCKING DEVICES
1	12	UPPER SUPPORT SKIRT TO PLATE GIRTH WELD
1	13	UPPER SUPPORT SKIRT TO FLANGE GIRTH WELD
1	14	ACCESSIBLE GUIDE TUBE WELDS
8	15	ACCESSIBLE (2) INSTRUMENTATION GUIDE COLUMN LOCKING COLLARS NEAREST THE MANWAY
1	16	UPPER BARREL TO FLANGE GIRTH WELD
1	17	UPPER BARREL TO LOWER BARREL GIRTH WELD
1	18	LOWER BARREL TO CORE SUPPORT GIRTH WELD
1, 4	19	UPPER CORE PLATE ALIGNING PIN WELDS AND BEARING SURFACES
6	20	OUTLET NOZZLE INTERFACE SURFACE CONDITION
1, 2 & 7	21	CORE SUPPORT COLUMNS AND THEIR SCREW LOCKING DEVICES
1, 2	22	NEUTRON SHIELD PANEL SCREW LOCKING DEVICES
7	23	INTERFACE SURFACES AT THE SPACER PADS ALONG THE TOP AND BOTTOM ENDS OF THE NEUTRON PANELS
1	24	BAFFLE ASSEMBLY SCREW LOCKING ARRANGEMENTS AT THE TWO TOP AND THE TWO BOTTOM FORMER ELEVATIONS
2	25	LOWER CORE PLATE TO CORE BARREL SCREW LOCKING DEVICES ACCESSIBLE AT THE 0°, 90°, 180°, AND 270° AXES
1	26	SECONDARY CORE SUPPORT HOUSING TO BASE PLATE WELD
1, 2, & 7	27	LOCKING DEVICES AND CONTACT OF THE BOTTOM INSTRUMENTATION GUIDE COLUMNS WHERE ATTACHED TO THE CORE SUPPORT AND TIE PLATES
1, 2	28	LOCKING DEVICES OF THE SECONDARY CORE SUPPORT COLUMNS WHERE ATTACHED TO THE CORE SUPPORT AND TIE PLATE
1	29	RADIAL SUPPORT KEY WELDS
1, 4	30	RADIAL SUPPORT KEY LOCKING ARRANGEMENTS AND BEARING SURFACES
1, 4	31	HEAD AND VESSEL ALIGNING PINS SCREW LOCKING DEVICES AND BEARING SURFACES
1, 2	32	IRRADIATION SPECIMEN GUIDE SCREW LOCKING DEVICES AND DOWEL PINS
6	33	VESSEL NOZZLE INTERFACE SURFACE CONDITION
1, 3 & 4	34	VESSEL CLEVIS LOCKING ARRANGEMENTS AND BEARING SURFACES

NOTES

1. VISUALLY EXAMINE WELDS USING 5 10X MAGNIFICATION. NO CRACKS ALLOWED.
2. VERIFY THAT LOCKING DEVICES ARE CRIMPED AND UNDAMAGED.
3. VERIFY THAT INSERTS ARE SEATED (.0015 TO .038) FEELER MUST NOT PASS THRU INTERFACE.
4. VISUALLY EXAMINE FACES FOR DAMAGE USING 5 10X MAGNIFICATION.
5. VERIFY THAT FITTINGS ARE TIGHT.
6. VISUALLY EXAMINE INTERFACE SURFACES FOR ANY EVIDENCE OF DAMAGE.
7. VERIFY SEATING USING A .0015 TO .038 FEELER GAGE. FEELER MUST NOT PASS THRU 90°.
8. VERIFY THAT LOCKING COLLARS ARE TIGHT. NO MOVEMENT ALLOWED.

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

SOUTHERN COMPANY SERVICES, INC. BIRMINGHAM, ALABAMA		
GEORGIA POWER COMPANY ALVIN W. VOGTLE NUCLEAR PLANT		
VIBRATION CHECKOUT FUNCTIONAL TEST INSPECTION POINTS		
SCALE: NONE	DRAWING NO.	REV
JOB NO. 10604	AX6DD401	0



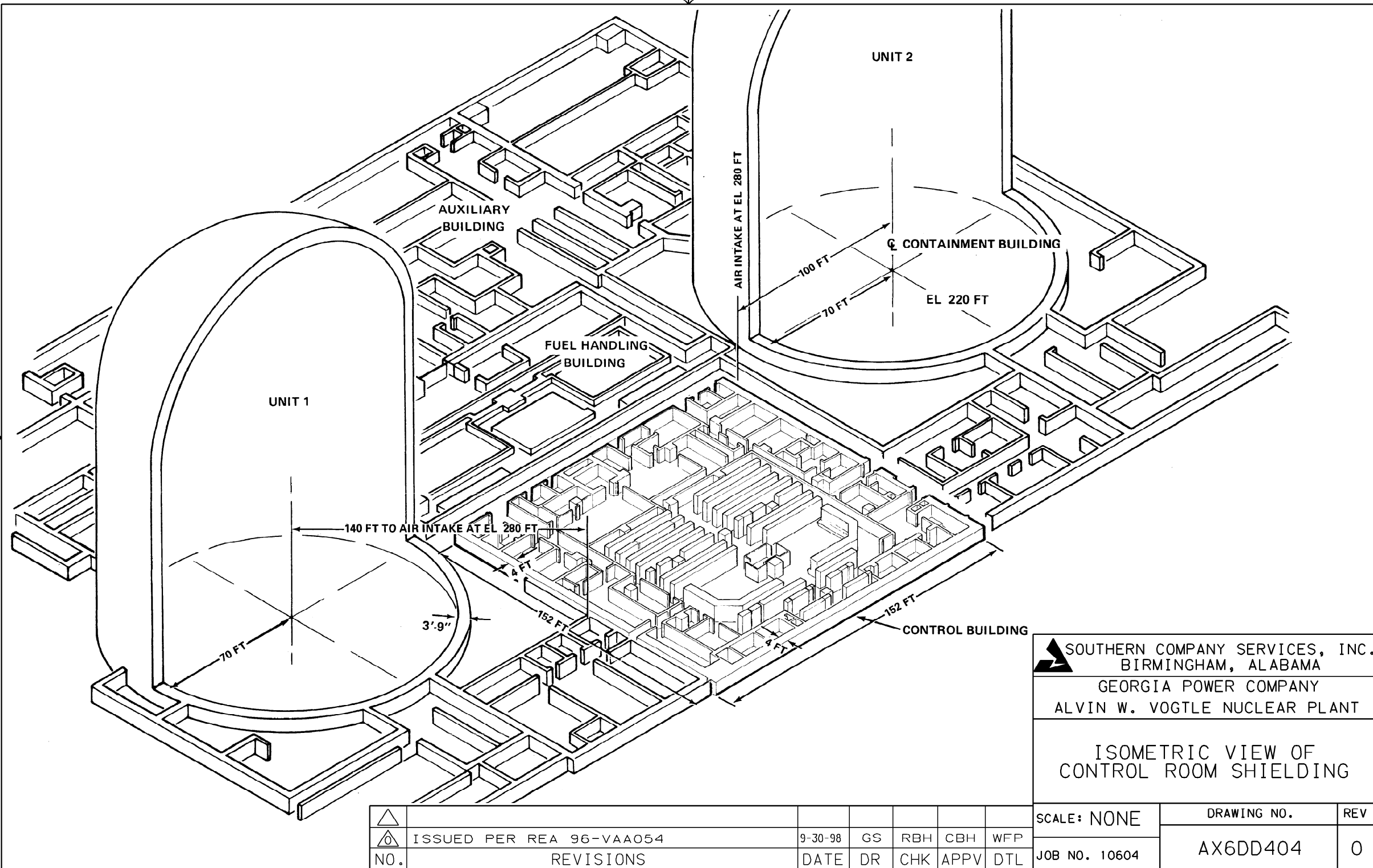
LEGEND:
----- STEAM
———— CONDENSATE AND
 FEEDWATER

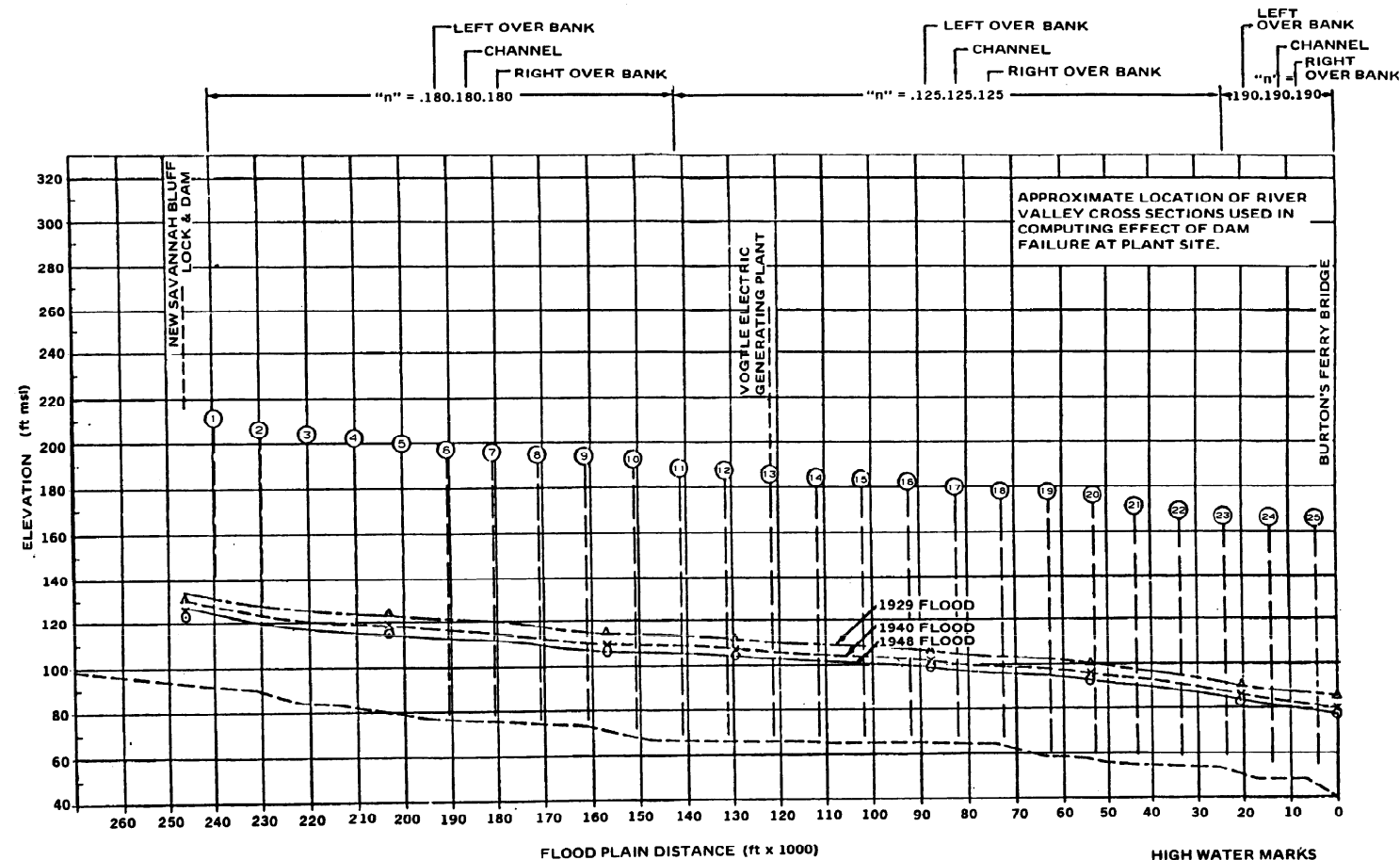
 SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

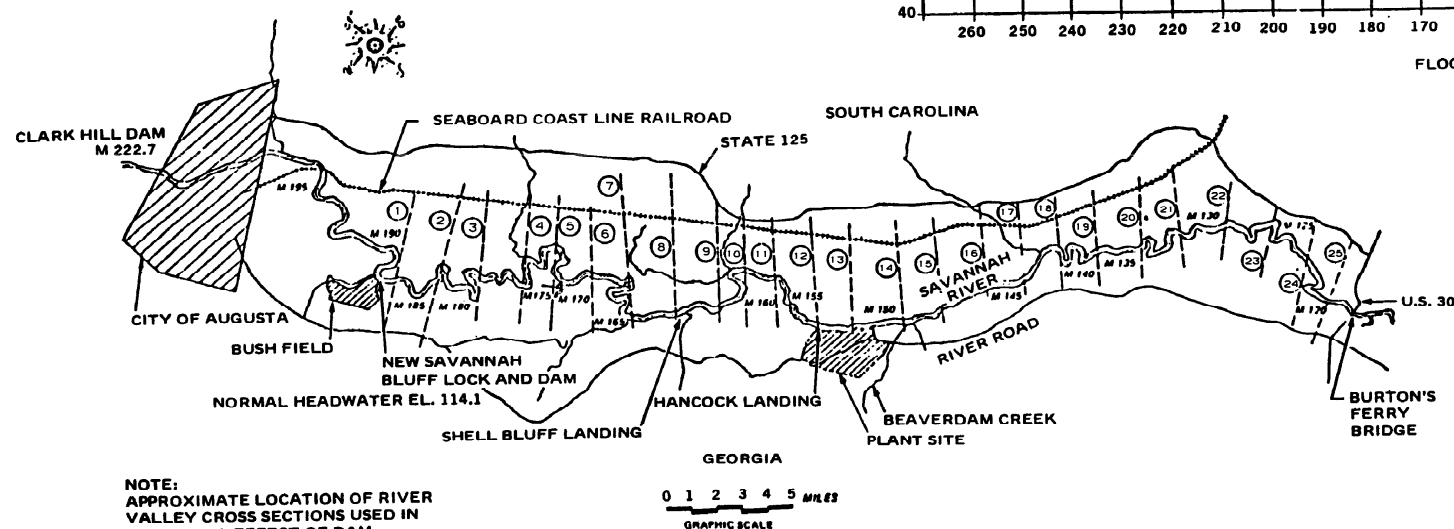
STEAM AND POWER
CONVERSION SYSTEMS

NO.	ISSUED PER REA 96-VAA054	DATE	DR	CHK	APPV	DTL	SCALE: NONE	DRAWING NO.	REV
							JOB NO. 10604	AX6DD403	0





HIGH WATER MARKS
 Δ 1929 FLOOD
 X 1940 FLOOD
 ○ 1948 FLOOD (NOV.)



NOTE:
 APPROXIMATE LOCATION OF RIVER
 VALLEY CROSS SECTIONS USED IN
 COMPUTING EFFECT OF DAM
 FAILURE AT PLANT SITE.
 UNSTEADY NONUNIFORM FLOW.

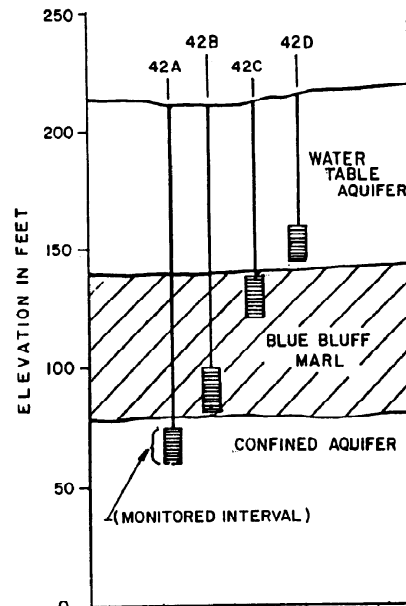
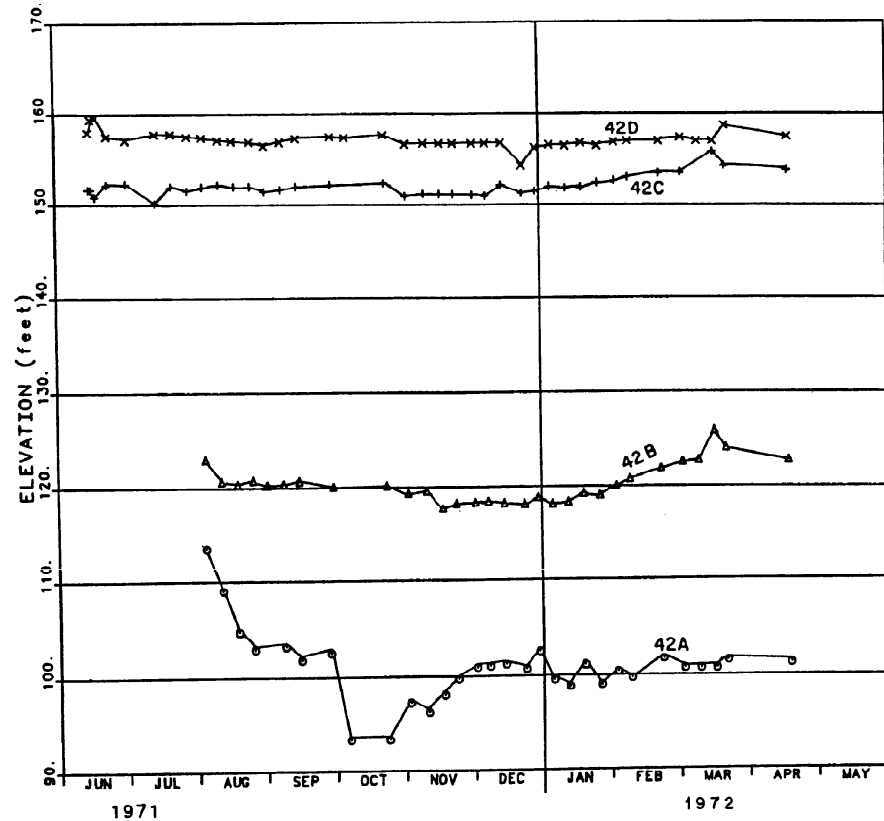
LEGEND

--- CROSS SECTION
 M 175 RIVER MILE 175

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

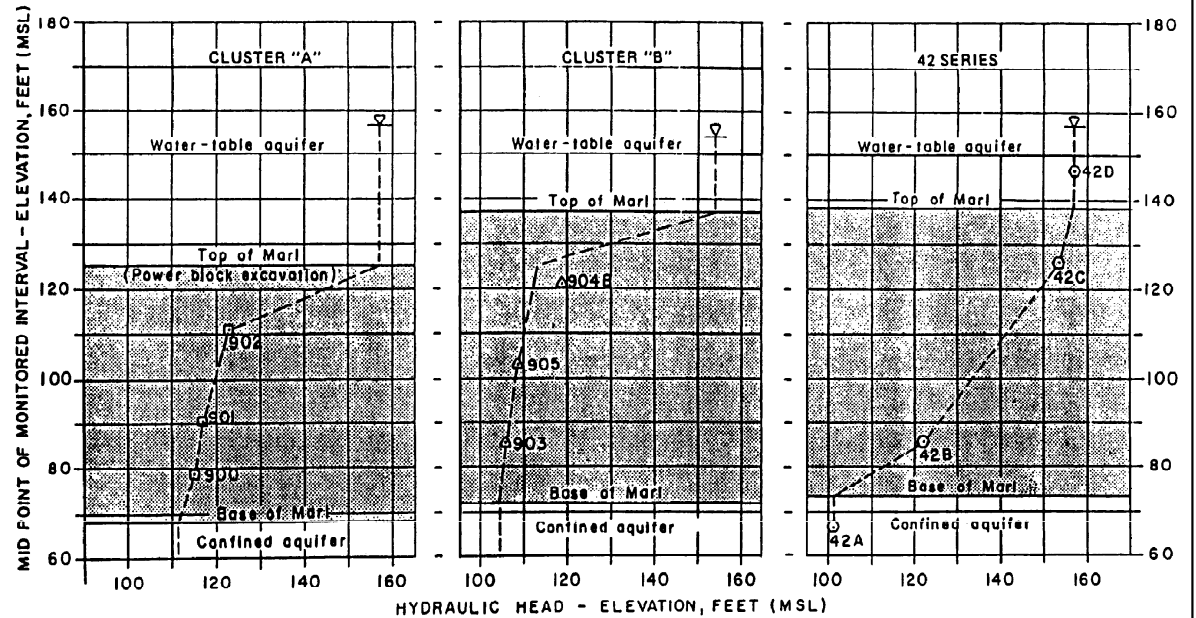
SOUTHERN COMPANY SERVICES, INC.
 BIRMINGHAM, ALABAMA
GEORGIA POWER COMPANY
 ALVIN W. VOGTLE NUCLEAR PLANT
**LOCATION OF SAVANNAH
 RIVER VALLEY CROSS-
 SECTION, UNSTEADY,
 NONUNIFORM FLOW**

SCALE: NONE	DRAWING NO.	REV
JOB NO. 10604	AX6DD406	0



NOT TO SCALE
SEE DRAWING AX6DD323 FOR WELL LOCATIONS

TABULATION OF WATER LEVELS WITH NOTES ON MEASUREMENTS AND LEVEL FLUCTUATIONS ARE IN "GROUND WATER SUPPLEMENT", MARCH 1985 (REFERENCE 10).



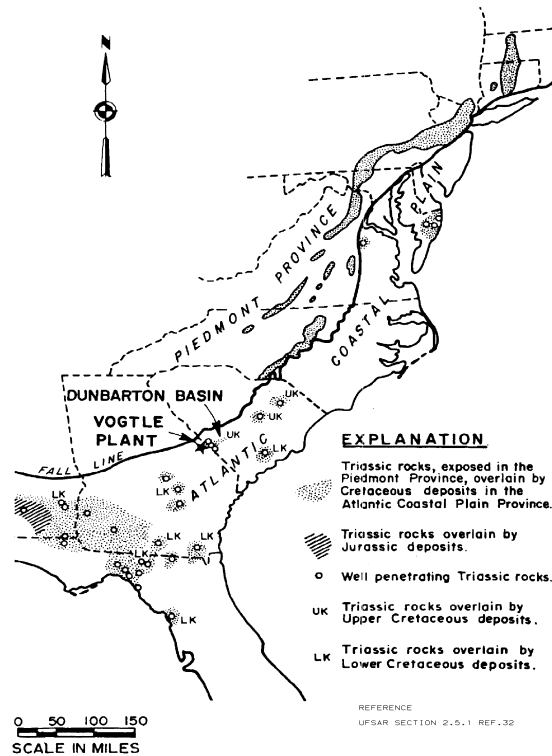
- NOTES:
1. Measurements in 900 thru 905 - Nov. 1985
 2. Measurements in 42 Series - April 1972
 3. Levels for water table and confined aquifers of clusters A and B based on measurements Nov. 1985

SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

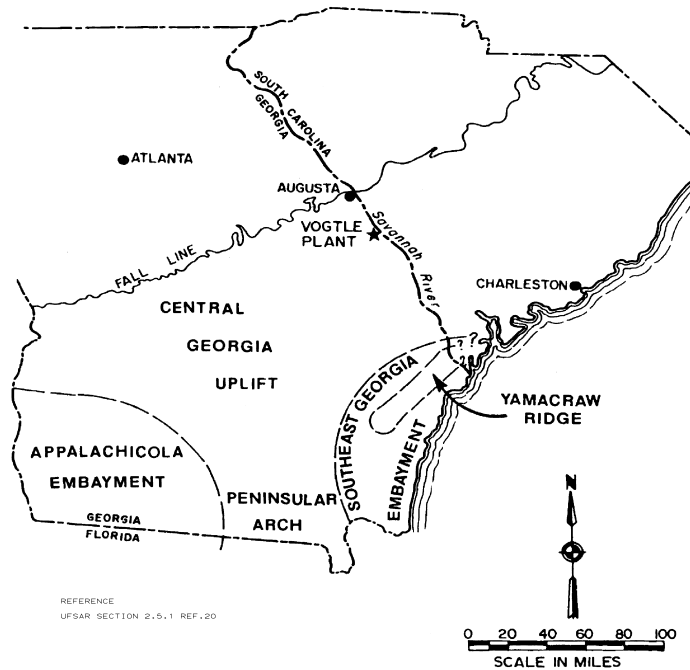
GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

WELL 42 SERIES (BLUE BLUFF MARL) HYDROGRAPHS AND PIEZOMETER PROFILES

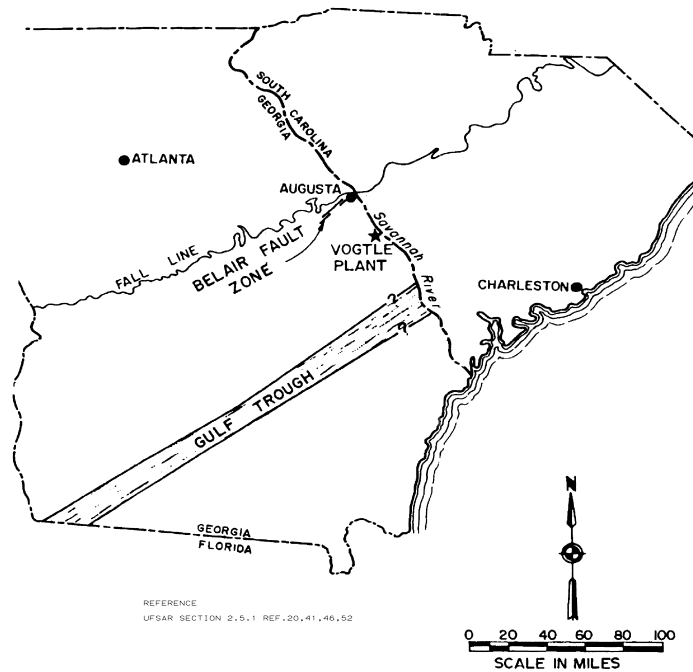
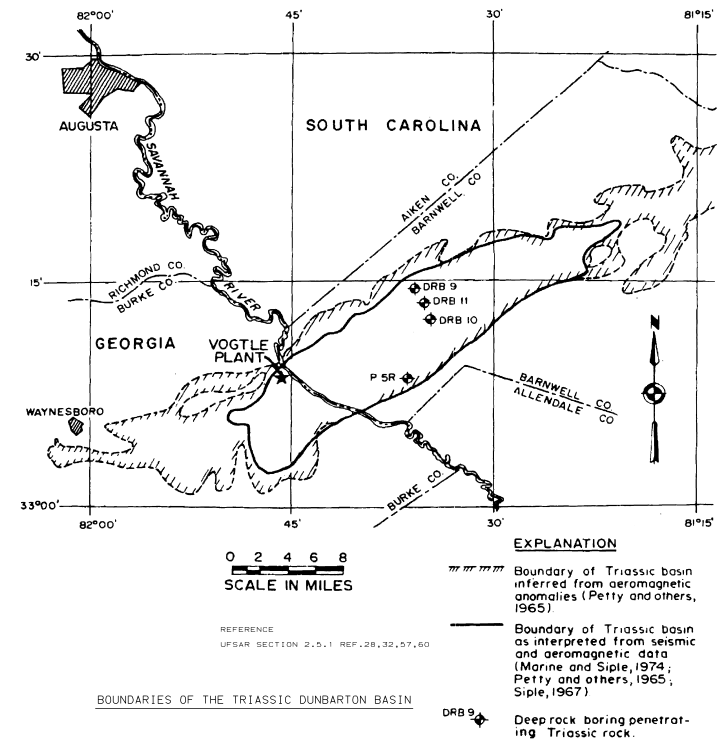
△							SCALE: NONE	DRAWING NO.	REV
△	ISSUED PER REA 96-VAA054	9-30-98	GS	RBH	CBH	WFP			
NO.	REVISIONS	DATE	DR	CHK	APPV	DTL	JOB NO. 10604	AX6DD408	0



TRIASSIC ROCKS ALONG THE EASTERN SEABOARD



BASEMENT FEATURES GEORGIA COASTAL PLAIN

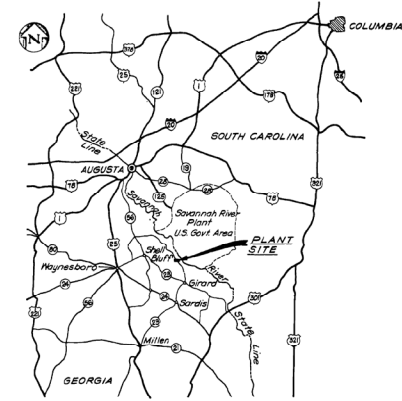
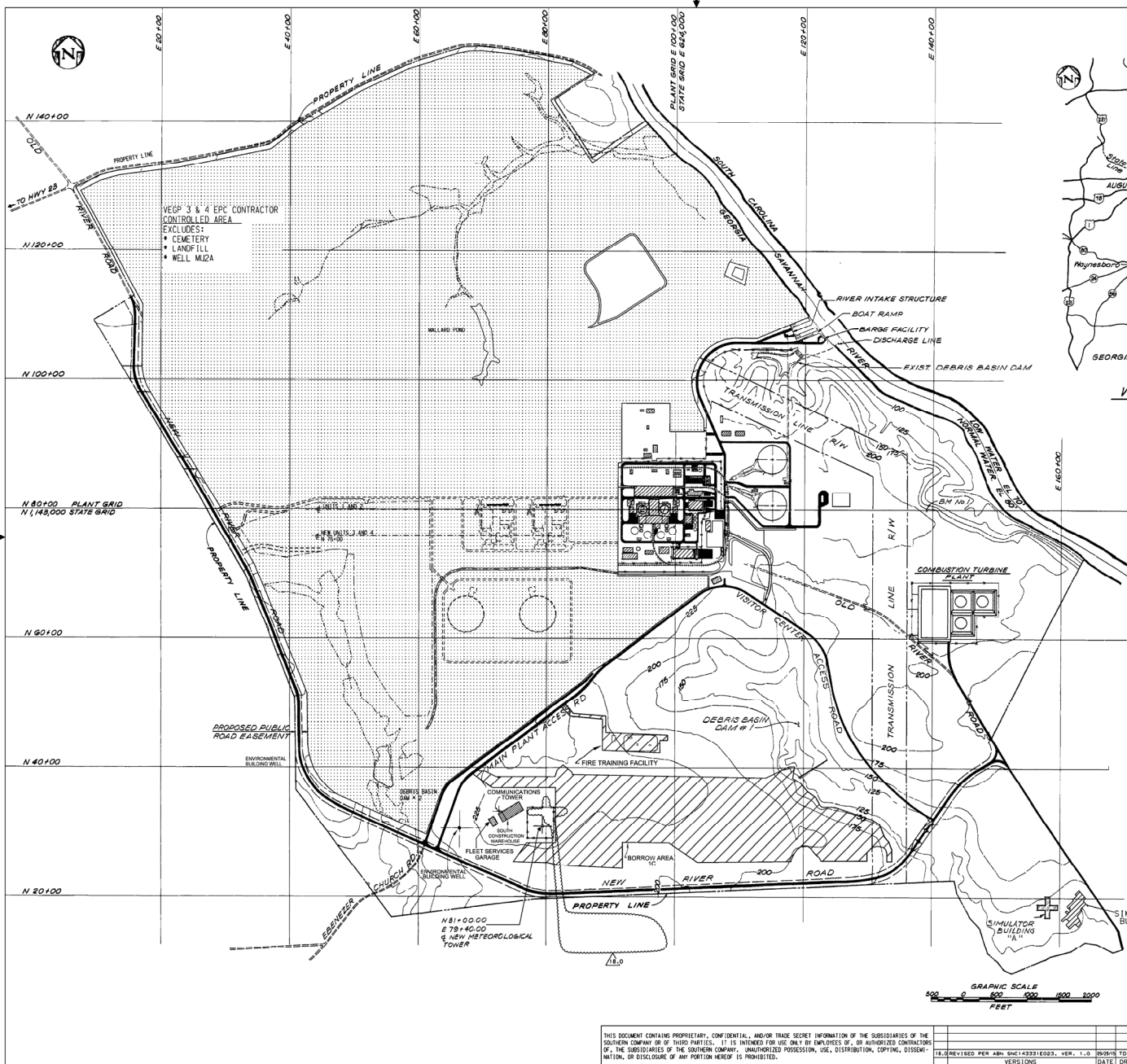


APPROXIMATE LOCATIONS OF BELAIR FAULT ZONE AND GULF TROUGH

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ISSUED PER REA 98-VA0084	9-8-98	CS	RBH	CBH	WFP
REVIEWS	DATE	OR	CHK	APPV	DTL

SOUTHERN COMPANY SERVICES, INC. BIRMINGHAM, ALABAMA		
GEORGIA POWER COMPANY ALVIN W. VOGTLE NUCLEAR PLANT		
REGIONAL GEOLOGIC STRUCTURES		
SCALE: NONE	DRAWING NO.	REV.
	AX6DD409	0



LEGEND

- NEW ASPHALT CONCRETE ROAD
- NEW CHAIN LINK FENCE
- EXISTING FENCE
- PROPERTY LINE OR MATCHLINE
- ROUGH GRADE CONTOUR
- EXISTING GROUND CONTOUR
- DITCH FLOWLINE
- SPOT GRADE
- BUILDING OR MAIN STRUCTURES
- RAILROAD
- EXCLUSION BOUNDARY LINE

GENERAL NOTES

1. EXISTING TOPOGRAPHY REPRODUCED FROM ORIGINAL TOPOGRAPHIC DRAWINGS PROVIDED BY THE ENGINEERING DEPARTMENT OF GEORGIA POWER CO., ATLANTA, GEORGIA.
2. THE TOPOGRAPHY OF BORROW AREA 1C WILL BE DETERMINED AT A LATER DATE.



THIS DOCUMENT CONTAINS PROPRIETARY, CONFIDENTIAL, AND/OR TRADE SECRET INFORMATION OF THE SUBSIDIARIES OF THE SOUTHERN COMPANY OR OF THIRD PARTIES. IT IS INTENDED FOR USE ONLY BY EMPLOYEES OF, OR AUTHORIZED CONTRACTORS OF, THE SUBSIDIARIES OF THE SOUTHERN COMPANY. UNAUTHORIZED POSSESSION, USE, DISTRIBUTION, COPYING, DISSEMINATION, OR DISCLOSURE OF ANY PORTION HEREOF IS PROHIBITED.

SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

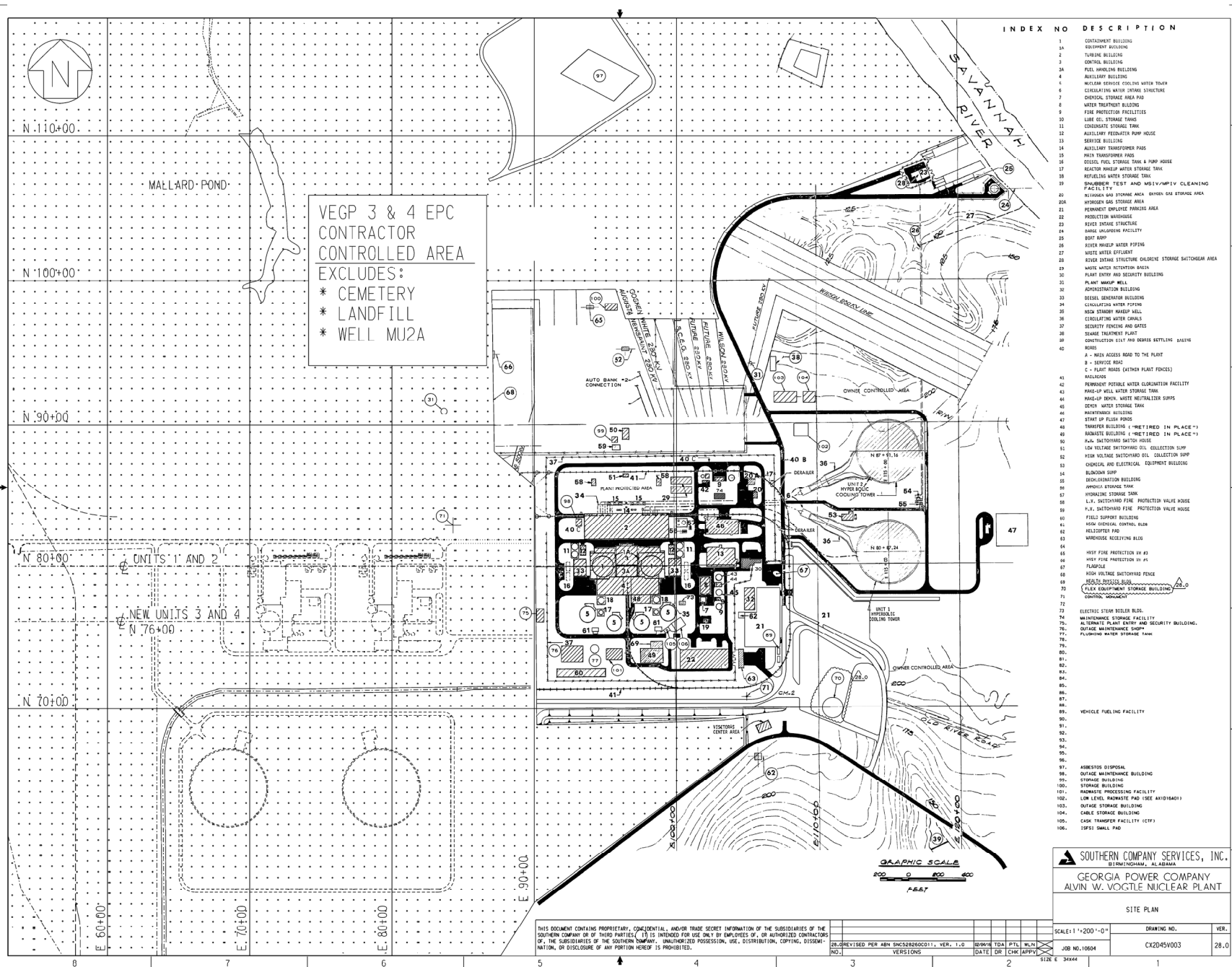
GEORGIA POWER COMPANY
ALVIN W. VOGLTLE NUCLEAR PLANT

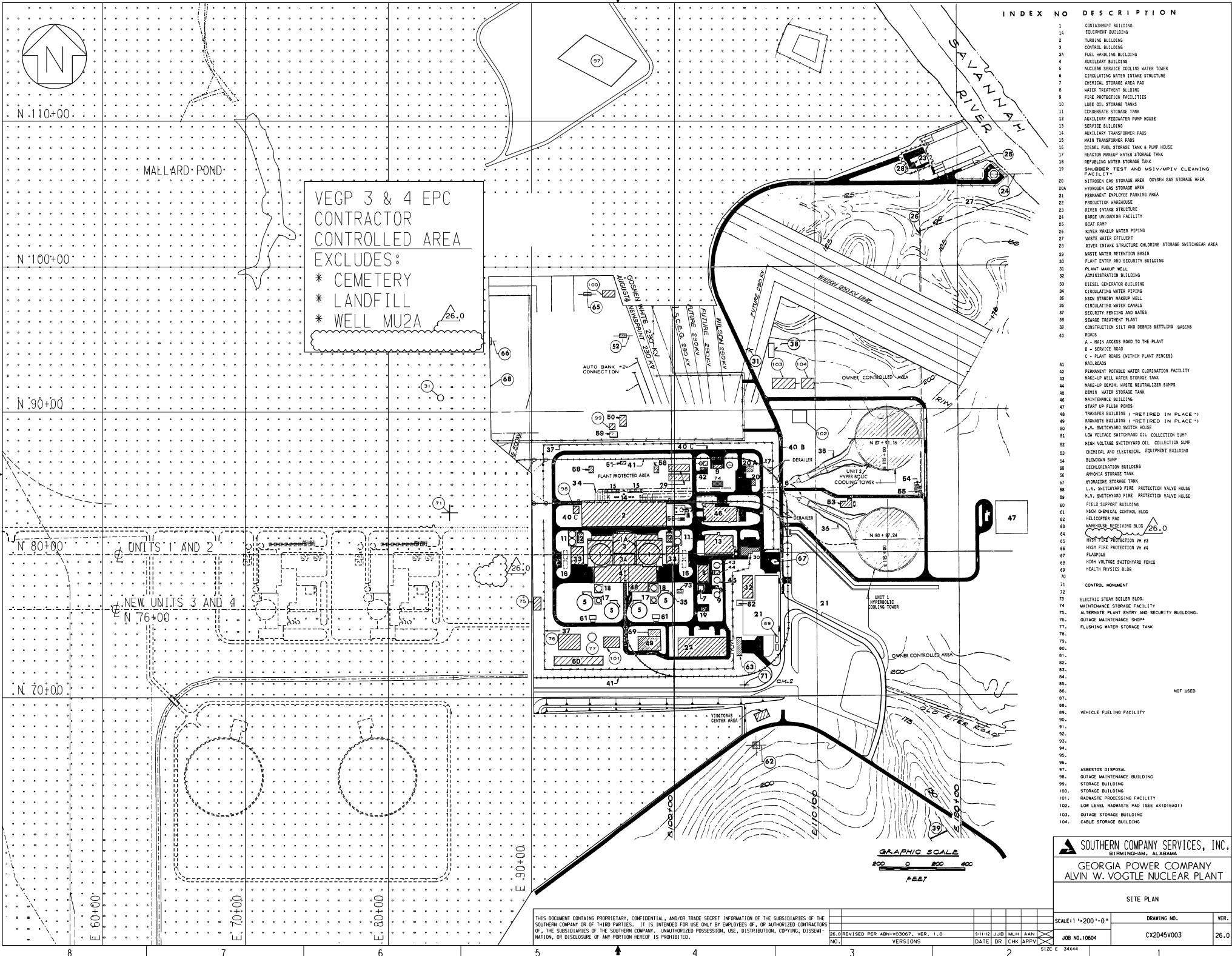
LOCATION AND VICINITY MAP

SCALE: 1" = 500'-0"	DRAWING NO.	VER.
18.0	CX2045V002	18.0
18.0		

18.0	REVISED PER ABN 5HC14331E023, VER. 1.0	REVISED TOA ALM WLN	DATE	CHK	APPV	JOB NO. 10504
18.0	VERSIONS					

CAD NAME: CX2045V002





INDEX NO	DESCRIPTION
1	CONTAINMENT BUILDING
1A	EQUIPMENT BUILDING
2	TURBINE BUILDING
3	CONTROL BUILDING
3A	FUEL HANDLING BUILDING
4	AUXILIARY BUILDING
5	NUCLEAR SERVICE COOLING WATER TOWER
6	CIRCULATING WATER INTAKE STRUCTURE
7	CHEMICAL STORAGE AREA PAD
8	WATER TREATMENT BUILDING
9	FIRE PROTECTION FACILITIES
10	LUBE OIL STORAGE TANKS
11	CONDENSATE STORAGE TANK
12	AUXILIARY FEEDWATER PUMP HOUSE
13	SERVICE BUILDING
14	AUXILIARY TRANSFORMER PADS
15	MAIN TRANSFORMER PADS
16	DIESEL FUEL STORAGE TANK & PUMP HOUSE
17	REACTOR MAKEUP WATER STORAGE TANK
18	REFUELING WATER STORAGE TANK
19	SHIMMUBBER TEST AND MSIV/MPIV CLEANING FACILITY
20	NITROGEN GAS STORAGE AREA OXYGEN GAS STORAGE AREA
20A	HYDROGEN GAS STORAGE AREA
21	PERMANENT EMPLOYEE PARKING AREA
22	PRODUCTION WAREHOUSE
23	RIVER INTAKE STRUCTURE
24	BARGE UNLOADING FACILITY
25	BOAT RAMP
26	RIVER MAKEUP WATER PIPING
27	WASTE WATER EFFLUENT
28	RIVER INTAKE STRUCTURE CHLORINE STORAGE SWITCHGEAR AREA
29	WASTE WATER RETENTION BASIN
30	PLANT ENTRY AND SECURITY BUILDING
31	PLANT MAKEUP WELL
32	ADMINISTRATION BUILDING
33	DIESEL GENERATOR BUILDING
34	CIRCULATING WATER PIPING
35	NOX STANBY MAKEUP WELL
36	CIRCULATING WATER CANALS
37	SECURITY FENCING AND GATES
38	SEWAGE TREATMENT PLANT
39	CONSTRUCTION SILT AND DEBRIS SETTLING BASINS
40	ROADS
A	- MAIN ACCESS ROAD TO THE PLANT
B	- SERVICE ROAD
C	- PLANT ROADS (WITHIN PLANT FENCES)
41	RAILROADS
42	PERMANENT POTABLE WATER CLOMINATION FACILITY
43	MAKE-UP WELL WATER STORAGE TANK
44	MAKE-UP DEWIL WASTE NEUTRALIZER SUMPS
45	DEMIN WATER STORAGE TANK
46	MAINTENANCE BUILDING
47	START UP FLASH ROOMS
48	TRANSFER BUILDING ("RETIRED IN PLACE")
49	RADWASTE BUILDING ("RETIRED IN PLACE")
50	H.V. SWITCHYARD SWITCH HOUSE
51	LOW VOLTAGE SWITCHYARD OIL COLLECTION SUMP
52	HIGH VOLTAGE SWITCHYARD OIL COLLECTION SUMP
53	CHEMICAL AND ELECTRICAL EQUIPMENT BUILDING
54	BLOODON SUMP
55	DECONTAMINATION BUILDING
56	AMMONIA STORAGE TANK
57	HYDRAZINE STORAGE TANK
58	L.V. SWITCHYARD FIRE PROTECTION VALVE HOUSE
59	H.V. SWITCHYARD FIRE PROTECTION VALVE HOUSE
60	FIELD SUPPORT BUILDING
61	HEAVY CHEMICAL CONTROL BLDG
62	HELICOPTER PAD
63	WAREHOUSE RECEIVING BLDG
64	HVST FIRE PROTECTION VH #3
65	HVST FIRE PROTECTION VH #4
66	FLAPPOLE
67	HIGH VOLTAGE SWITCHYARD FENCE
68	HEALTH PHYSICS BLDG
69	
70	
71	CONTROL MONUMENT
72	
73	ELECTRIC STEAM BOILER BLDG.
74	MAINTENANCE STORAGE FACILITY
75	ALTERNATE PLANT ENTRY AND SECURITY BUILDING.
76	OUTAGE MAINTENANCE SHOP
77	FLUSHING WATER STORAGE TANK
78	
79	
80	
81	
82	
83	
84	
85	
86	NOT USED
87	
88	
89	VEHICLE FUELING FACILITY
90	
91	
92	
93	
94	
95	
96	
97	ASBESTOS DISPOSAL
98	OUTAGE MAINTENANCE BUILDING
99	STORAGE BUILDING
100	STORAGE BUILDING
101	RADWASTE PROCESSING FACILITY
102	LOW LEVEL RADWASTE PAD (SEE AXI016A01)
103	OUTAGE STORAGE BUILDING
104	CABLE STORAGE BUILDING

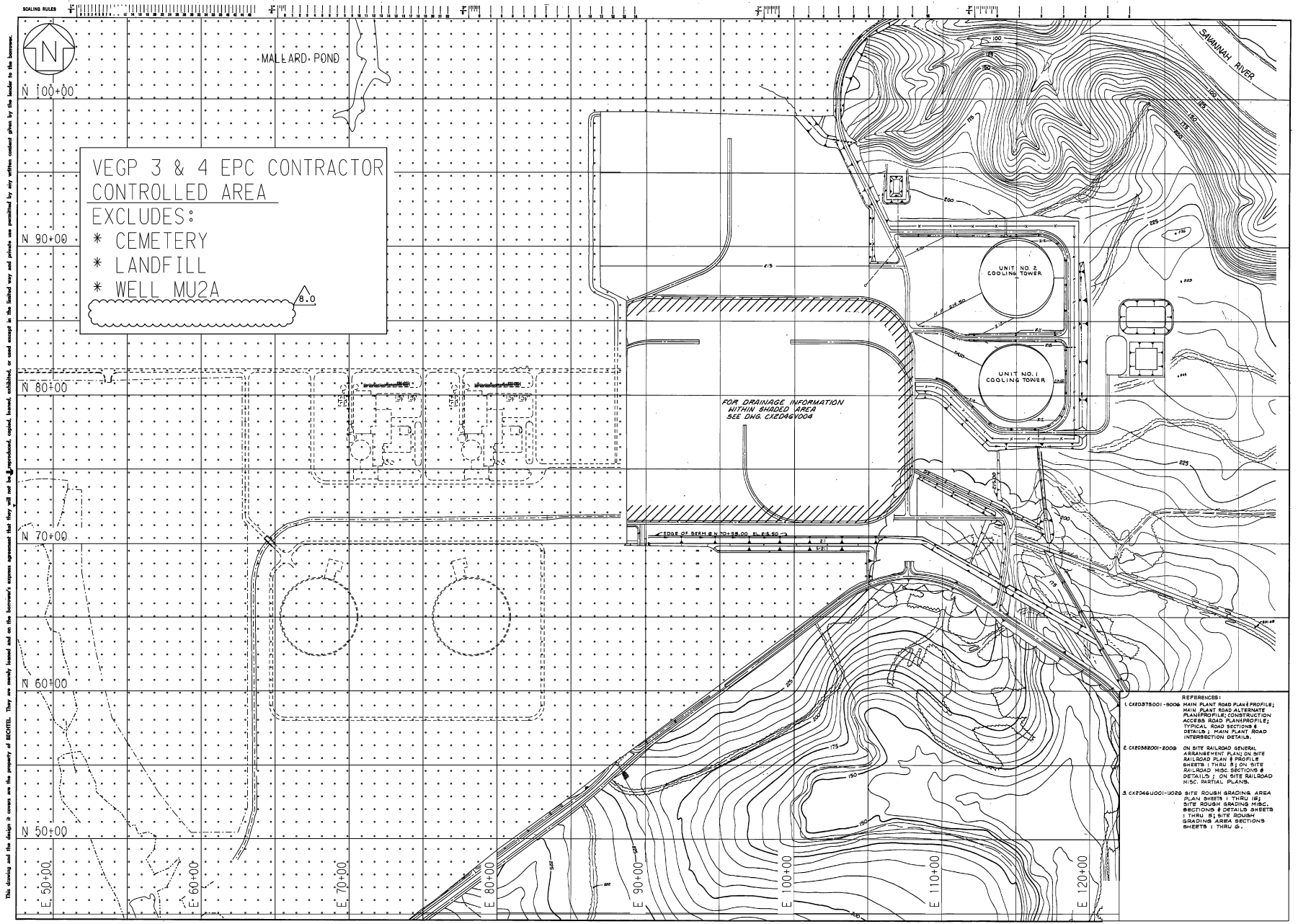
SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

SITE PLAN


SCALE: 1" = 200'-0"	DRAWING NO.	VER.
	JOB NO. 10604	CX2045V003
		26.0

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			VERSIONS	DATE	DR				



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- REFERENCES:
- 1. CX2D78001-8006 MAIN PLANT ROAD PLAN PROFILE; MAIN PLANT ROAD ALTERNATE; MAIN PLANT CONSTRUCTION ACCESS ROAD PLAN PROFILE; TYPICAL ROAD SECTIONS & DETAILS; MAIN PLANT ROAD INTERSECTION DETAILS
 - 2. CX2D88201-8009 ON SITE RAILROAD GENERAL ARRANGEMENT PLAN ON SITE RAILROAD PLAN & PROFILE SHEETS 1 THRU 5 ON SITE RAILROAD H&C SECTIONS & DETAILS; ON SITE RAILROAD H&C DETAIL PLANS
 - 3. CX2D461001-1026 SITE ROUGH GRADING AREA PLAN SHEETS 1 THRU 16; SITE ROUGH GRADING H&C SECTIONS & DETAILS SHEETS 1 THRU 5; SITE ROUGH GRADING AREA SECTIONS SHEETS 1 THRU 6.

SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

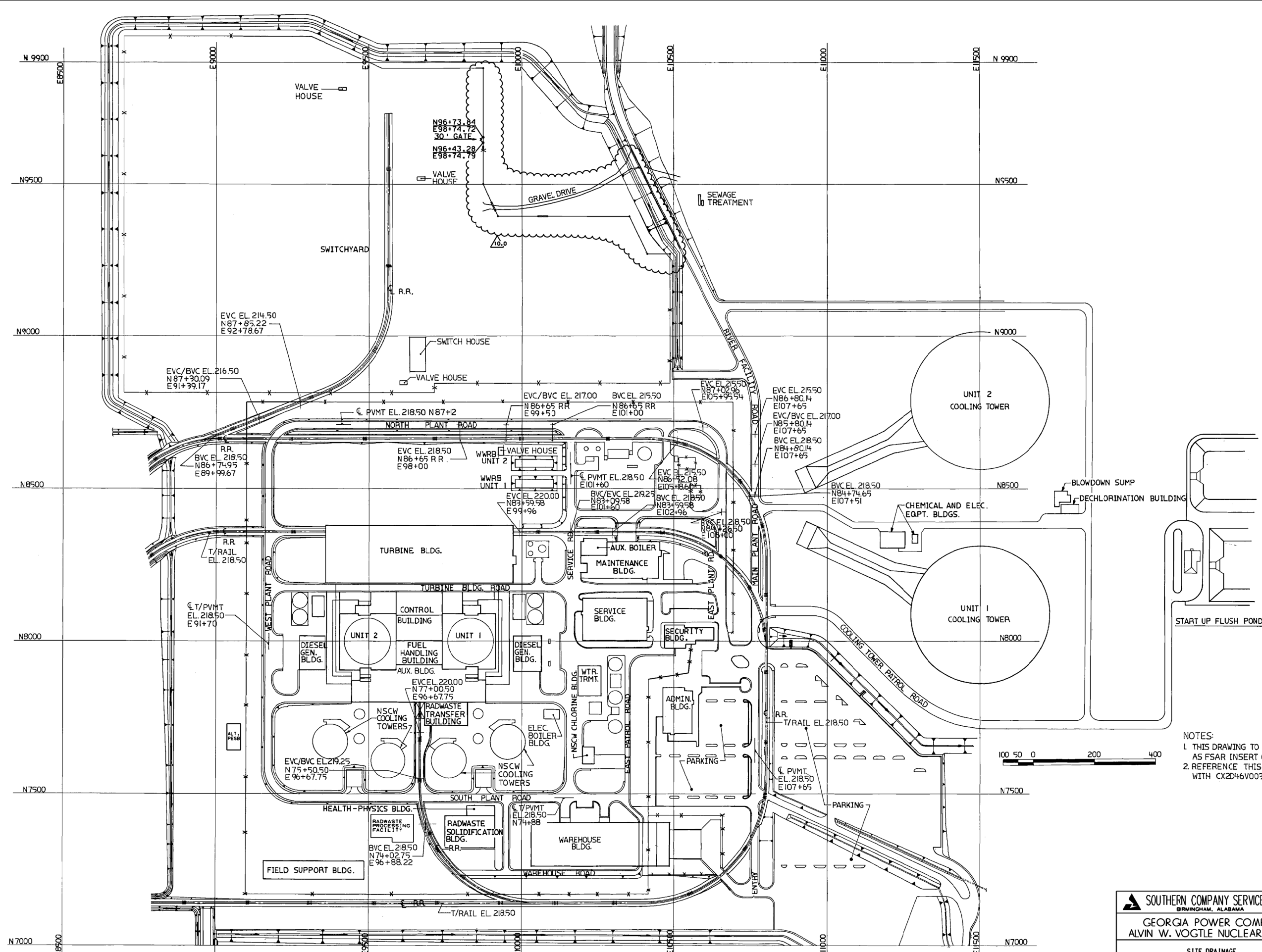
GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

SITE ROUGH GRADING
AND DRAINAGE PLAN


SCALE: 1"=200'-0"	DRAWING NO.	VER.
JOB NO. 10604	CX2D46V003	8.0

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NO.	VERSIONS	DATE	DR	CHK	APPV



NOTES:
1. THIS DRAWING TO BE USED
AS FSAR INSERT ONLY.
2. REFERENCE THIS DRAWING
WITH CX2D46V003.

 SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

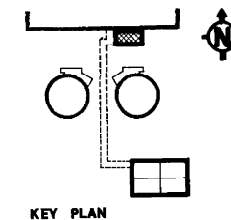
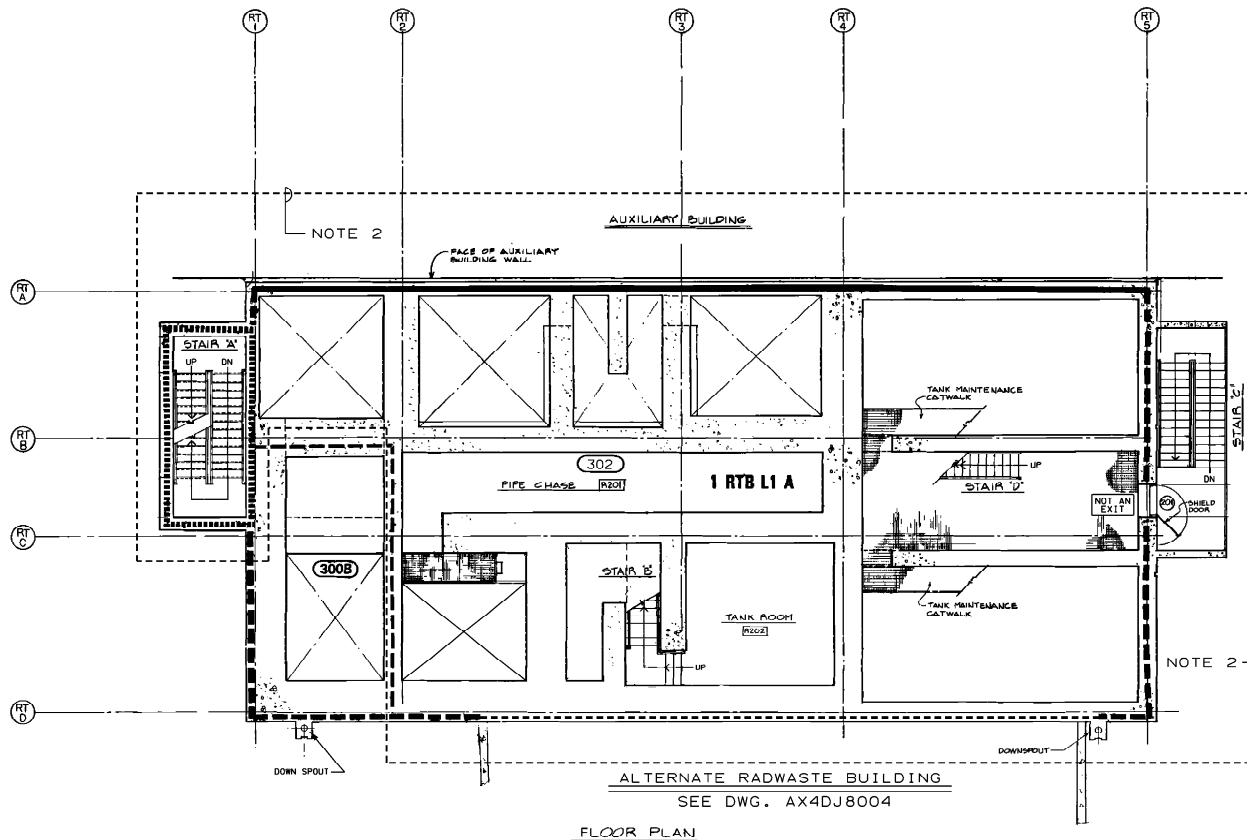
GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

SITE DRAINAGE
PLAN-P.M.P. STORM

SCALE: N.T.S.	DRAWING NO.	VER.
	CX2D46V004	10.0
JOB NO. 10604		

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10.0	REVISED PER ABN A100695901C005, VER 2.0	09/10/14	DCP	MWD	WLN
NO.	VERSIONS	DATE	DR	CHK	APPV



NOTES:
1. THE BACKGROUND USED ON THIS DRAWING IS PROVIDED FOR ORIENTATION PURPOSES ONLY.
2. "RETIRED IN PLACE".

LEGEND	
	3 HR RATED FIRE AREA BOUNDARY
	UNRATED FIRE AREA BOUNDARY
	3 HR RATED BOUNDARY
	2 HR RATED BOUNDARY
	PRE-ACTION SPRINKLER SYSTEM
	HALON SYSTEM
	FIRE HOSE CABINET
	FIRE HOSE REEL
	PORTABLE EXTINGUISHER (DRY-CHEMICAL)
	EXIT SIGN LOCATION
	FIRE ALARM PULL BOX
	KNOCK OUT PANEL
	FIRE ZONE BOUNDARY
	FIRE ZONE DESIGNATOR

2126B-L5

The Unit (1, 2, or A) will be assigned based on the physical foot print of the F-Z not the FA

FZ Plant FZ shown on AX4DJ8000 series drawings, calculations, etc.

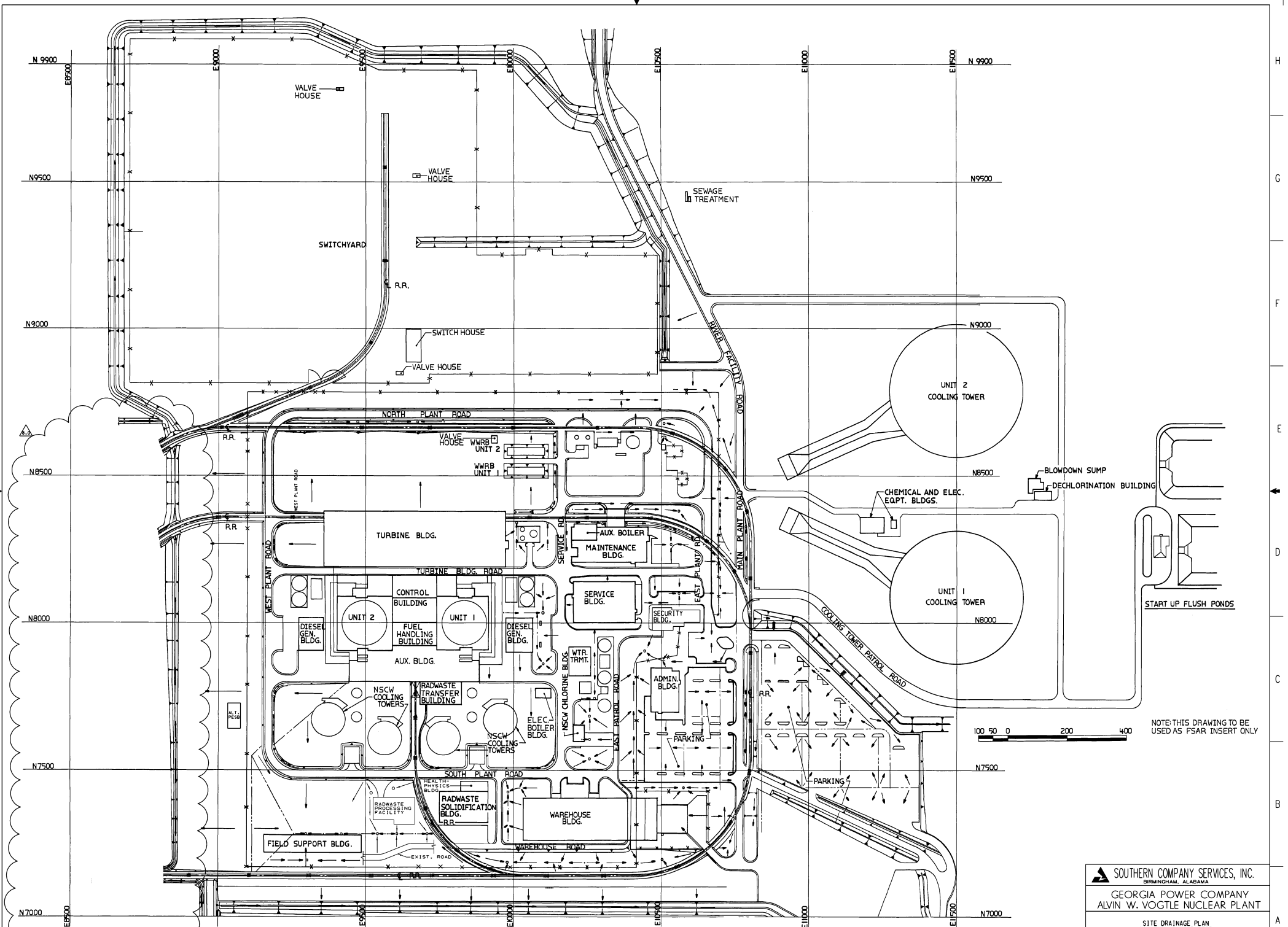
"E4" Code Shown on AX4DJ8000 series drawings

PDMS FZ Naming Key for AX4DJ8000 series drawings

ELECTRICAL CABLE LOCATION CROSS REFERENCE		
FIRE ZONE	UNIT 1 E4 CODE	UNIT 2 E4 CODE
300B	X3	—
302	X3	—


7.0	REVISED PER ABN-V02931, VER. 1.0.	4-30-12	JJB	LCF	AAN		
NO.	VERSIONS	DATE	DR	CHK	APPV		

SOUTHERN COMPANY SERVICES, INC. BIRMINGHAM, ALABAMA		
GEORGIA POWER COMPANY ALVIN W. VOGTLE NUCLEAR PLANT		
FIRE AREAS RADWASTE TRANSFER BUILDING PARTIAL LEVEL 1 FLOOR PLAN EL. 237'-0"		
SCALE: NONE	DRAWING NO.	VER.
JOB NO. 10604	AX4DJ8005	7.0



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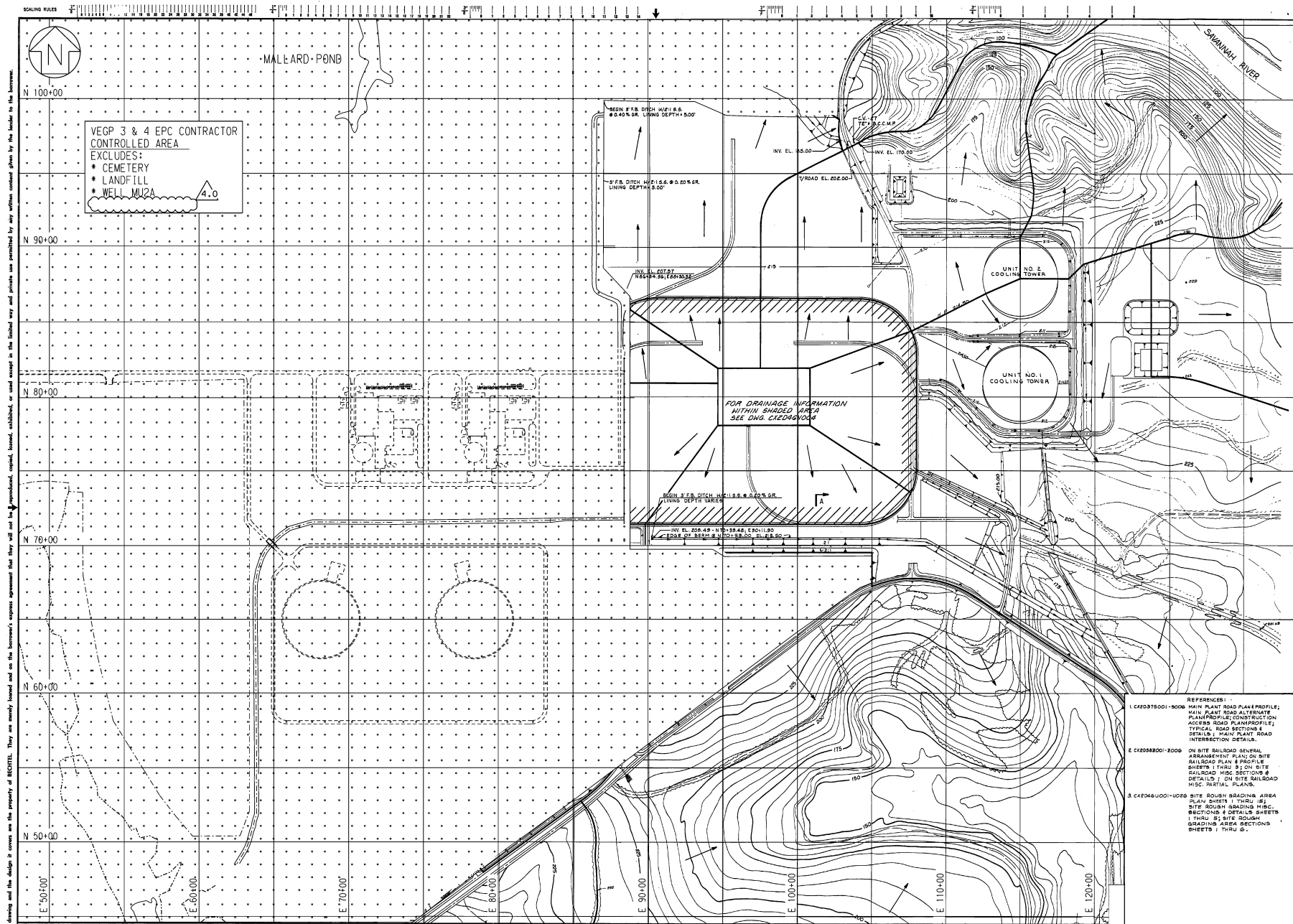
8.0	REVISED PER ABN-V03077, VER. 1.0	11/09/12	PMK	LCP	RKF
NO.	VERSIONS	DATE	DR	CHK	APPV

 SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

SITE DRAINAGE PLAN
100 YEAR, 6 HOUR STORM

SCALE: 1"=100'	DRAWING NO.	VER.
JOB NO.10604	CX2046V005	8.0



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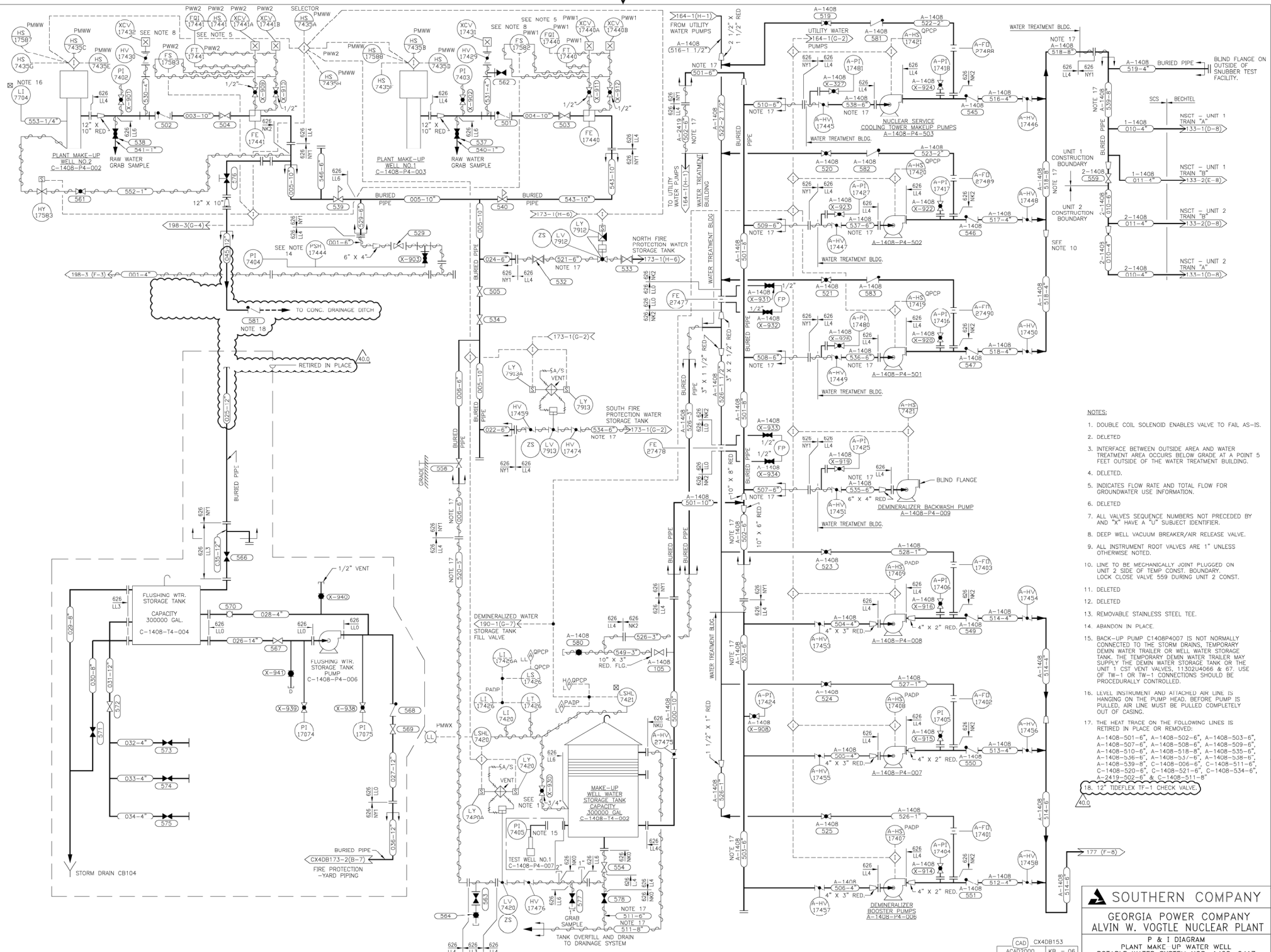
- REFERENCES:
- 1. CX2049001-0008 MAIN PLANT ROAD PLAN & PROFILE; MAIN PLANT ROAD ALTERNATE PLAN/PROFILE; CONSTRUCTION ACCESS ROAD PLAN/PROFILE; TYPICAL ROAD SECTIONS & DETAILS; MAIN PLANT ROAD INTERSECTION DETAILS.
 - 2. CX2049001-0008 ON SITE RAILROAD GENERAL ARRANGEMENT PLAN ON SITE RAILROAD PLAN & PROFILE SHEETS 1 THRU 5 ON SITE RAILROAD MISC SECTIONS & DETAILS 1 ON SITE RAILROAD MISC. PARTIAL PLANS.
 - 3. CX2046001-0008 SITE ROUGH GRADING AREA PLAN SHEETS 1 THRU 10 SITE ROUGH GRADING MISC. SECTIONS & DETAILS SHEETS 1 THRU 10 SITE ROUGH GRADING AREA SECTIONS SHEETS 1 THRU 6.

SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

SITE GRADING AND DRAINAGE
PLAN
SUB-DRAINAGE AREAS

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4.0 REVISED PER ABN-V03007, VER. 1.0				JUN 19 1998		CX2046V006	4.0
NO. VERSIONS				DATE DR		JOB NO. 10604	
				CHK APPV		SIZE E 34x44	

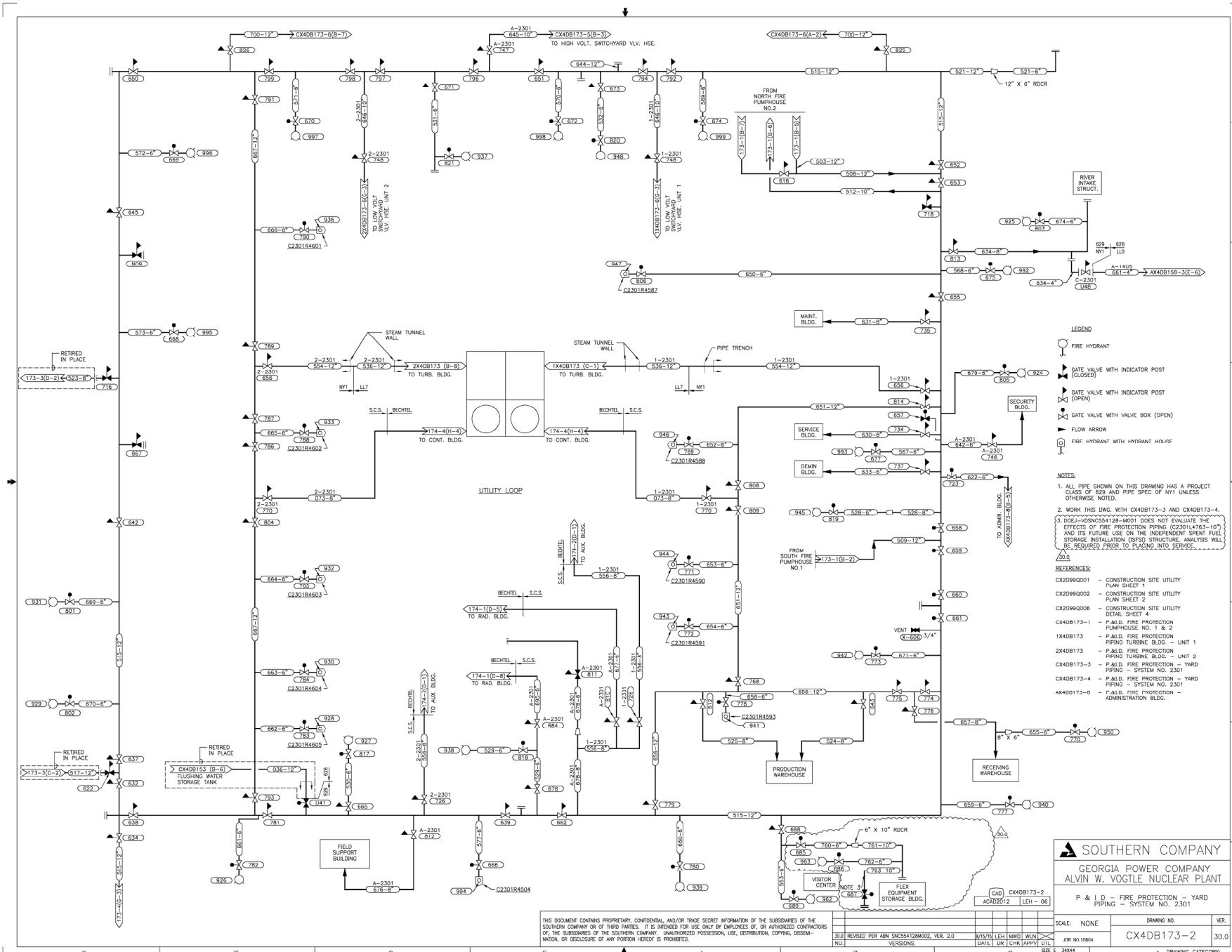


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SOUTHERN COMPANY
GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT
P & I DIAGRAM
PLANT MAKE-UP WATER WELL
POTABLE WATER SYSTEM NOS. 140B: 2417

(CAD) CX4DB153
 ACAD2000 KB = 06

SCALE: None DRAWING NO. VER. JOB NO. 10604 CX4DB153 40.0



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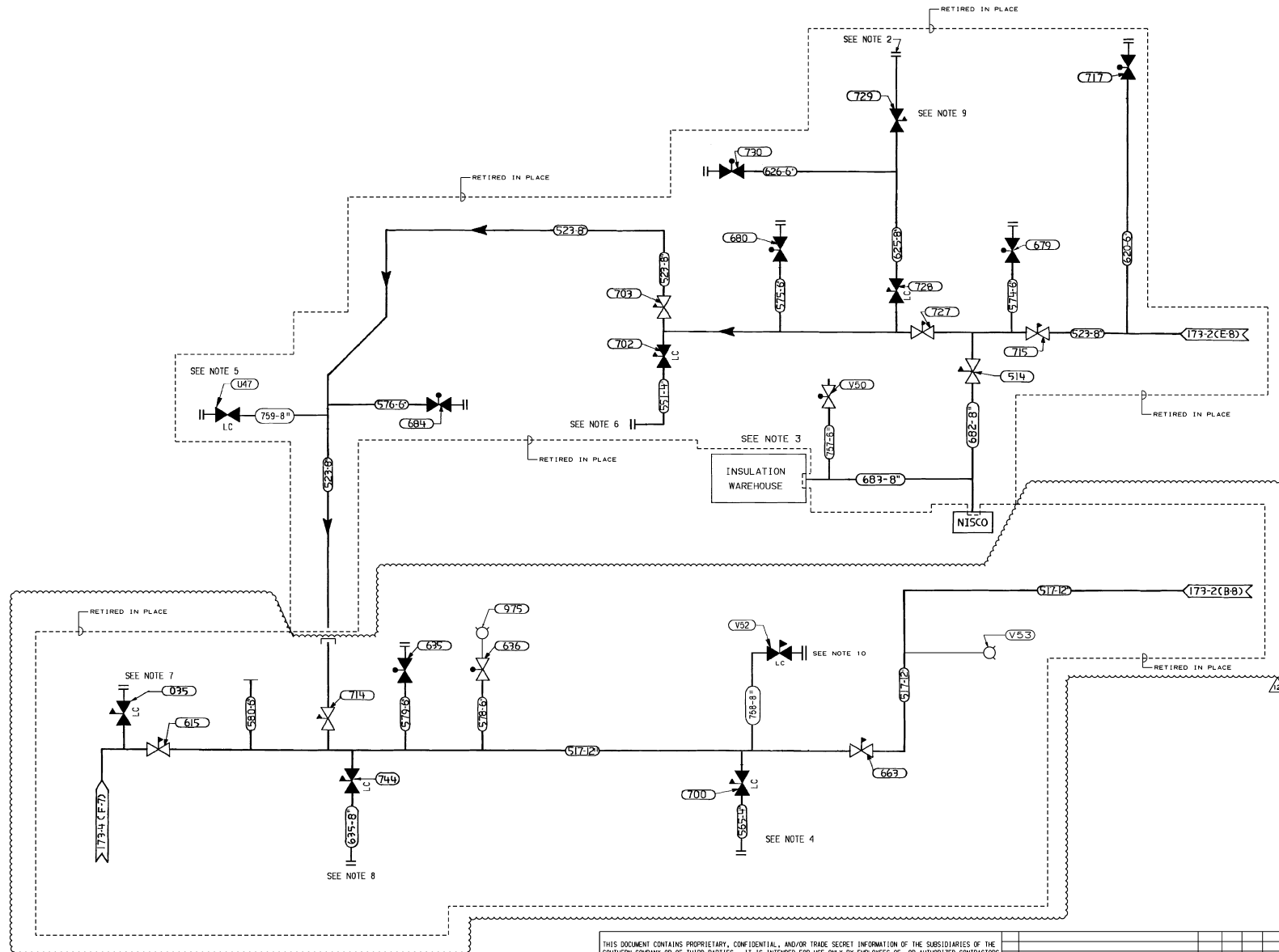
SOUTHERN COMPANY
GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

P & I D - FIRE PROTECTION - YARD
PIPING - SYSTEM NO. 2301

DRAWING NO. **CX4DB173-2**
VER. **30.0**

SCALE:	NONE
DATE:	8/15/15
BY:	LEH
CHK:	WLN
APPV:	WLN
DATE:	8/15/15
BY:	LEH
CHK:	WLN
APPV:	WLN

1 DRAWING CATEGORY: CRITICAL

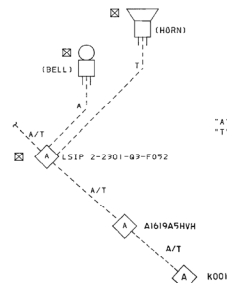
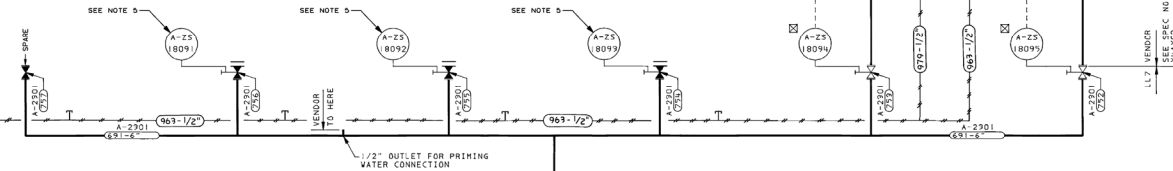
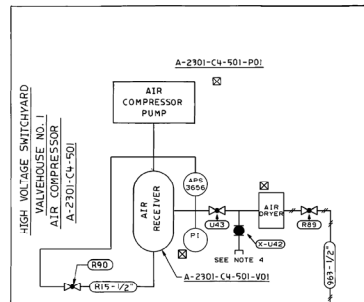


- NOTES:
1. FOR LEGEND, NOTES & REFERENCES SEE DWG. NO. CX4DB173-2.
 2. FORMERLY THE COATINGS FACILITY AND ASSOCIATED BLDGS.
 3. FORMERLY THE NORTH BROS. BLDG.
 4. FORMERLY THE PAINT CONTR. BLDG.
 5. FORMERLY THE SOIL LAB.
 6. FORMERLY THE EQUIP. MAINT. SHOP.
 7. FORMERLY THE PROCUREMENT COMPLEX.
 8. FORMERLY THE HVAC BLDG.
 9. FORMERLY THE CARPENTER SHOP AND STOR. BLDG.
 10. FORMERLY THE PAINT WAREHOUSE.

SOUTHERN COMPANY SERVICES, INC. BIRMINGHAM, ALABAMA	
GEORGIA POWER COMPANY ALVIN W. VOGTLE NUCLEAR PLANT	
P & ID - FIRE PROTECTION YARD PIPING SYSTEM NO. 2301	
SCALE: NONE	DRAWING NO. CX4DB173-3
VER. 12.0	JOB NO. 10604
DWG CATEGORY: CRITICAL	

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12.0	REVISED PER ABN C081863901M004, VER 1.0	04/28/09	ELC	TSJ	JMR
NO.	DATE	DR	CHK	APPV	
VERSIONS					



ANNUNCIATION DETAIL
(TYPICAL EACH SYSTEM)

HIGH VOLTAGE SWITCHYARD
VALVEHOUSE NO.1

F.G. DOAR P.E.
GEORGIA NO. 4372

- NOTES:
1. ALL LINES, VALVES AND EQUIP ON THIS DRAWING ARE PROJ CLASS 629 UNLESS NOTED.
 2. "A" DENOTES ALARM
"T" DENOTES TROUBLE
 3. AIR COMPRESSOR AND AIR LINES BY VENDOR.
 4. CONNECTION SUITABLE FOR BACKUP AIR SUPPLY. BACKUP CYLINDER MAY REMAIN CONNECTED IF FLOW DIRECTION VALVE 2-2301-1002 REMAINS CLOSED WHEN BACKUP NITROGEN CYLINDER IS NOT IN USE. (TAG NO. 2-2301-1002)
 5. THESE LIMIT SWITCHES ARE "SPARES" AND WILL NOT BE CONNECTED TO ANY ANNUNCIATION AT THIS TIME.

REFERENCES:

- SKW-5505 - HIGH VOLTAGE SWITCHYARD - FIRE PROT PIPING - GEN ARR' T - PLAN
AXN046402 - HIGH VOLTAGE SWITCHYARD - FIRE PROT VALVE HOUSE - PLAN AND SECTIONS

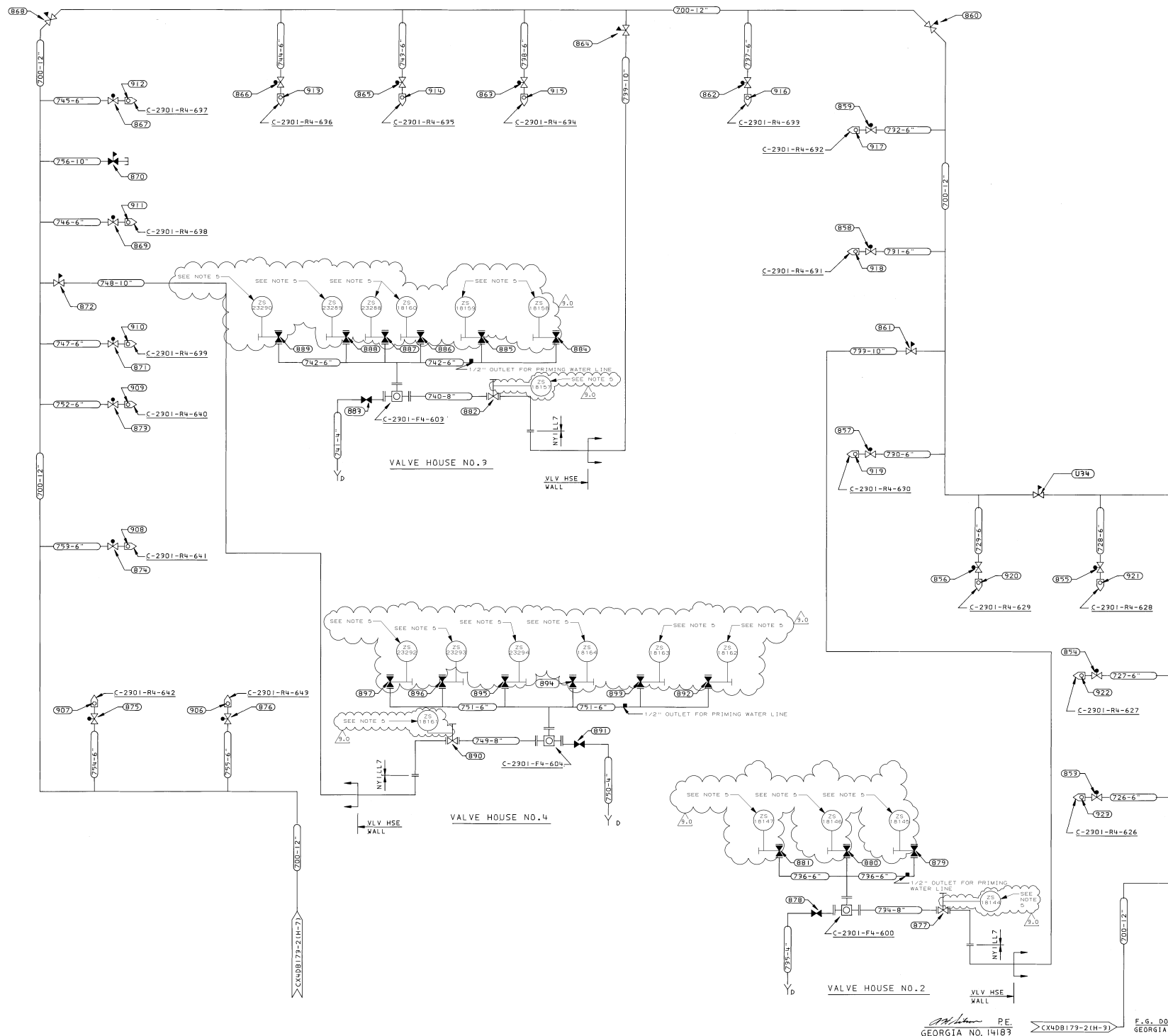
SOUTHERN COMPANY SERVICES, INC.
BIRMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

P & ID - FIRE PROTECTION - PIPING
HIGH VOLTAGE SWITCHYARD - FIRE
VALVEHOUSE NO.1 - SYSTEM 2301

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11.0	REVISED PER AWH 104000001MOT3, VER. 1.0	AWD/10 LHM/CCP/MND	DATE FOR CHG/APPY	SIZE E	34444
JOB NO.10604	SCALE: NONE	DRAWING NO. CX4DB173-5	VER. 11.0	DRAWING CATEGORY: TYPICAL	



- NOTES:
1. ALL LINES, VALVES, AND EQPT ON THIS DRAWING ARE PROJ CLASS 629 UNLESS NOTED
 2. THE FIRE PROTECTION SIGNALS FROM THE FLOW AND POSITION SWITCHES WILL BE SENT TO THE COMPUTER PRINTER/CRT INSIDE THE CONTROL ROOM AND THE LOCAL SYSTEM INDICATING PANEL
 3. WORK THIS Dwg. WITH CX4DBI73-2
 4. AIR COMPRESSOR AND AIR PIPING BY VENDOR
 5. THESE LIMIT SWITCHES ARE "SPARES" AND WILL NOT BE CONNECTED TO ANY ANNUNCIATION AT THIS TIME.

- REFERENCES:
- CX4DBI73-2 - P & ID - FIRE PROTECTION - YARD PIPING - SYSTEM NO. 2901
 - AX4DL69604 - HIGH VOLTAGE SWITCHYARD FIRE PROTECTION VALVEHOUSE NO. 2 PLAN AND SECTIONS
 - AX4DL69605 - HIGH VOLTAGE SWITCHYARD FIRE PROTECTION VALVEHOUSE NO. 3 PLAN AND SECTIONS
 - AX4DL69602 - HIGH VOLTAGE SWITCHYARD VALVE HOUSE NO. 4 - PLAN AND SECTIONS

SOUTHERN COMPANY SERVICES, INC.
 GERMINGHAM, ALABAMA

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

P&ID - FIRE PROTECTION - PIPING
HIGH VOLTAGE SWITCHYARD -
UNITS 1 & 2 - SYS. 2901

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NO.	REVISIONS	DATE	BY	CHK	APPV
9.0	REVISED PER ABN-52238, VER. 1.0	11/02/95	DPV	MWD	ASK

SCALE	DRAWING NO.	VER.
N.T.S.	CX4DBI73-6	9.0

PE
 GEORGIA NO. 14183

F.G. DOAR P.E.
 GEORGIA NO. 4972

14.5X

DATE: 1-27-87
CAMERA OPERATOR: [Signature]
SECTION SUPERVISOR: [Signature]

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TAG NO.	DESCRIPTION	FUNCTION	SETPOINT	REF. DWG.	RESET	REMARKS
1 ATIS-12110	MCR OUTSIDE AIR INTAKE CL2	HI CL2 ALARM AND CONTROL	2PPM CL2 ± 0.6 PPM INCR	FSAR-6.4	FIXED	REF. FILE XSBD06-012 REF. IOM BR51001 & BR5112 TOL. CALC. XECP12110 (NOTE 1) TECH. SPEC. SECT. 3.5.5.7
2 ATIS-12110	CL2	HI H2S ALARM AND CONTROL	2PPM H2S $\pm 5\%$ INCR		(S.P. $\pm 2.0\%$) $\pm 5\%$	
1 ATIS-12111	H2S	HI H2S CL2	2PPM H2S $\pm 5\%$ INCR		(S.P. $\pm 2.0\%$) FIXED	
2 ATIS-12111	H2S	HI H2S CL2	2PPM H2S $\pm 5\%$ INCR		(S.P. $\pm 2.0\%$) FIXED	
1 ATIS-12112	CL2	HI CL2 ALARM AND CONTROL	2PPM CL2 ± 0.6 PPM INCR		FIXED	REF. IOM BR51001 & BR5112 TOL. CALC. XECP12110 (NOTE 1) TECH. SPEC. SECT. 3.5.5.7
2 ATIS-12112	CL2	HI H2S ALARM AND CONTROL	2PPM H2S $\pm 5\%$ INCR		(S.P. $\pm 2.0\%$) $\pm 5\%$	
1 ATIS-12113	H2S	HI H2S CL2	2PPM H2S $\pm 5\%$ INCR		(S.P. $\pm 2.0\%$) FIXED	
2 ATIS-12113	H2S	HI H2S CL2	2PPM H2S $\pm 5\%$ INCR		(S.P. $\pm 2.0\%$) FIXED	
1 UR-12113	H2S CL2	HI H2S CL2	2PPM H2S $\pm 5\%$ INCR		(S.P. $\pm 2.0\%$) FIXED	
2 UR-12113	H2S CL2	HI H2S CL2	2PPM H2S $\pm 5\%$ INCR		(S.P. $\pm 2.0\%$) FIXED	
A ATIS-21030	TSC OUTSIDE AIR INTAKE CL2	CONTROL	2PPM CL2 ± 0.6 PPM INCR		FIXED	REF. FILE NO. XSBD06-012 REF. IOM BR51001 & BR5112 TOL. CALC. XECP12110 (NOTE 1) TECH. SPEC. SECT. 3.5.5.7
A ATIS-21031	H2S	HI H2S CL2	2PPM H2S $\pm 5\%$ INCR		(S.P. $\pm 2.0\%$) $\pm 5\%$	
A UR-21032	H2S CL2	HI H2S CL2	2PPM H2S $\pm 5\%$ INCR		(S.P. $\pm 2.0\%$) FIXED	
NOTE 1: ANY SETPOINT CHANGE FOR THESE INSTRUMENTS REQUIRES UPDATING OF THE REFERENCE TELEGRAPHIC CALCULATION.						

BECHTEL
LOS ANGELES

GEORGIA POWER COMPANY
ALVIN W. VOGTLE NUCLEAR PLANT

**INSTRUMENT SET
POINT LIST**

NO.	REVISIONS	DATE	DR	CHK	SUPV.	EGS	CHF. E.	P. E.	Q. A. E.
1	ADDED RESET VALUES	7-5-85	ZEP	TAM	RAC				
2	VERIFIED SET POINTS AND ADDED FILE NO. REF.	4-1-85	ZEP	TAM	RAC				
3	INCREASED DON #1 AND TSC SETPOINTS TO 600N. EDITORIAL CHANGE	1-27-87	RSA	JR	ADM				
4	ISSUE FOR CONSTRUCTION	1-17-87	RK	W. J.					

SCALE: NONE

JOB NO. 9510

DRAWING NO.
CX5DT101-58

SPEC. NO. X5AA 04

REV. 4

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SECTION SUPERVISOR: [Signature]