HISTORY OF CONSTRUCTION
PLANT SCHOLZ CLOSED ASH POND
40 C.F.R. PART 257.73(c)(1)

This History of Construction is prepared for Florida Power and Light Company's (FPL's) Plant Scholz Closed Ash Pond (Closed Ash Pond) located in Sneads, Florida in accordance with the United States Environmental Protection Agency's (EPA) "Standard for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments" Final Rule (40 Code of Federal Regulations (C.F.R.) Part 257, Subpart D) and meets the requirements provided in 40 C.F.R. §257.73(c)(1) for the owner or operator of a coal combustion residuals (CCR) surface impoundment to compile a history of construction of the CCR unit.

1.0 Facility Ownership Information

Site Name and Location

Plant Scholz
1498 Gulf Power Rd
Sneads, Florida 32460

Owner Name and Address

Florida Power & Light Company
700 Universe Boulevard, JES/JB
Juno Beach, Florida 33408

CCR Impoundment

Plant Scholz Closed Ash Pond

State Identification No.

Solid Waste: 100464
Wastewater: FL0002283

2.0 Location of the CCR Unit

Site Coordinates

30°40'09.20"N, 84°53'18.55"W

3.0 Purpose of the CCR Unit

The Closed Ash Pond was originally co-located with a retired coal-fired electric generating plant, which had a gross generation capacity of 98 megawatts, located in Sneads, Florida. The Closed Ash Pond was designed to receive and store CCR produced during the coal-fired power generation process at the plant. The facility was constructed in 1953 and operated continuously until April 2015 when it was retired. Since the time that the coal-fired unit was retired, no additional CCR has been placed in the Closed Ash Pond.

The facility occupies approximately 300 acres, and the total area of the Closed Ash Pond is approximately 47 acres. The Closed Ash Pond has been consolidated and closed in place in accordance with 40 C.F.R. §257.102(d). Closure activities began in 2015 and were completed in December 2024. The plant demolition was completed in 2023. Plant decommissioning began shortly after operations ceased in 2015 and demolition was completed in 2023.

4.0 Watershed Description

The Closed Ash Pond is located within the Ham Pond-Apalachicola River HUC-12 (HUC 12-031300110202) watershed which has a drainage area of 20,209 acres. The Ham Pond-Apalachicola River watershed is located within the Apalachicola Subbasin HUC-8 watershed which has a drainage area of 794,572 acres. However, there is no uncontrolled run-on into the Closed Ash Pond from the surrounding watershed.

5.0 Physical and Engineering Properties of Foundation and Abutments

The embankments of the Closed Ash Pond are formed by engineered perimeter stability buttresses surrounding the unit, consisting of locally borrowed, clean compacted soils of the Gulf Coastal Plain Geologic Province (namely dense clean sands (USCS SP, SP-SM) and stiff silty sands (SM)), and compacted mixtures of bottom ash, fly ash, and pyrite. The subsurface near the perimeter buttresses of the Closed Ash Pond consists of the following major layers:

- Sandy fill soils and ash-soil mixtures
- Organic soils
- Interlayered clean sands with clayey and silty sands
- Clayey soils (in select areas)
- Silty sands
- Limestone

The engineered perimeter stability buttresses surrounding the unit was constructed using mechanical stabilization during operation. These embankments are founded on stable foundation soils, that do not fall under the definition of Unstable Areas (40 C.F.R. §257.53 and §257.64). Slopes and other cover components meet the requirements of 40 C.F.R. §257.73(e). Downstream embankment slopes are covered with the ClosureTurf™ system and are well maintained. The Closed Ash Pond has been closed in place in accordance with 40 C.F.R. §257.102(d) by dewatering, consolidating and capping CCR. The Closed Ash Pond was originally designed with a concrete overflow weir discharge structure in the southeast portion of the unit. The overflow weir structure emptied into a forebay area and ultimately the Apalachicola River via a 28-inch pipe culvert.

6.0 Site Preparation and Construction Activities

The Closed Ash Pond is classified as a legacy impoundment in under 40 CFR Part §257.53, as it is a surface impoundment that no longer receives CCR but contained both CCR and liquids on or after October 19, 2015 and is located at an inactive electric utility. The Closed Ash Pond was subject to a closure plan based on legal proceedings that resulted in a Settlement Agreement filed on June 24, 2015, in the U.S. District Court for the Northern District of Florida (Case: 4:14-cv-00268-MW-CAS). Following the Settlement Agreement, the Closed Ash Pond underwent closure construction from 2015 through 2024. The requirements of the closure plan and those in 40 C.F.R. §257.102(d) have been met and the Plant Scholz Closed Ash Pond is currently undergoing post-closure care.

The site is located on the northwestern bank of the upper reaches of the Apalachicola River in Sneads, Florida. The main plant area was located on the easternmost side of the facility. The main plant area contained the major buildings and substation equipment on the property. The coal stockpile area was located directly west of the main plant area. Due to the age of the facility and ceasing operations in 2015, many former plant personnel were not

available for input into this report. Information provided below is based on discussions with some former facility personnel and historical drawings.

Prior to its closure, the Closed Ash Pond was originally comprised of three smaller ash ponds (Upper, Middle, and Lower Ash Ponds) contained by a perimeter embankment system. Several internal dikes were used to delineate each of the smaller ash ponds. These dikes were constructed using primarily CCR (specifically, ash material) to a maximum height of roughly 15 feet (ft). with side slopes ranging between 1.5(H):1(V) to 1(H):1(V), and crest widths approximately between 20 ft. and 30 ft.

By 2002, the Upper, Middle, and Lower ash ponds became Cells 2, 3, and 4, respectively, while the ash storage area between Cell 2 and the coal pile became Cell 1, further divided into Cell 1-A and Cell 1-B by a central pile of dry ash. A second dry ash pile to the east of Cell 1-A separated it from the coal pile. This is captured in drawing 2705SCH included in Appendix A. As ash was sluiced inside these cells, additional ash was used to construct the east perimeter berm for containment.

Closure activities (including design and construction) began shortly after the plant's retirement in April 2015. Prior to the start of the closure work, ponded water was present within the former Ash Pond areas. These areas were first dewatered and re-graded, so currently no free or standing water is present. The dry stack area is not incised and meets the height and storage volume thresholds specified in 40 CFR §257.73(b)2. A cutoff wall extending 2 ft into the confining layer was constructed along the northwestern and western perimeter of the Closed Ash Pond to prevent the Surficial Aquifer groundwater from interacting with the dry stack area material.

Afterwards, the CCR in the Ash Pond was excavated, dewatered, consolidated, capped, and closed in place. This was done by relocating excavated and dewatered CCR to the northwest portion of the unit, creating a smaller consolidated footprint, and the Ash Pond was dewatered to provide a stable base for the construction of the stability buttresses. CCR was excavated from the area outside the consolidated footprint, transported, and placed in the consolidated area in compacted engineered lifts. After CCR removal, the south and southwestern portions of the Ash Pond were regraded to facilitate drainage. A toe drain system was installed along portions of the southern boundary and this drain is pumped to a lined storage pond located in the original coal pile area. Additionally, buttressing was constructed along the eastern, southern, and southwestern edges of the Closed Ash Pond to ensure adequate slope stability.

After the CCR consolidation was completed and final grades were achieved, a cover designed to minimize infiltration of liquids into the CCR was installed. The final cover system was designed in accordance with 40 C.F.R. §257.102(d)(3)(ii). The system includes a ClosureTurf™ system and was designed to prevent infiltration, minimize or eliminate erosion, and accommodates settling and subsidence.

7.0 Engineering Diagram

Historical construction drawings for the site can be found in Appendix A.

8.0 Description of Instrumentation

There is currently no permanent operating instrumentation equipment installed at the Closed Ash Pond.

9.0 Area-Capacity Curves

WSP used a bottom elevation of CCR in the final closure area estimated from the 1956 United States Geological Survey (USGS). Depths, elevations, and storage capacity are estimates derived by qualified personnel from available information and are based on historical contours beneath the CCR impoundment from 1956.

The volume inside the footprint of the Closed Ash Pond is estimated to be approximately 1,310,000 cubic yards which includes placed and compacted soil and CCR within the dry stack area. This volume does include soil buttress material for the south and eastern slopes, which was placed and compacted from clean structural fill, but lies beneath the final cover system.

10.0 Spillway and Diversion Design

CCR previously contained within the limits of the stormwater pond was dewatered, excavated and relocated to the consolidated closure area, and no free water was impounded within the final closure area. Hydrologic and hydraulic analyses indicate that the historical Ash Pond footprint has the available capacity to handle the 100-year, 24-hour design storm while providing freeboard of 2.4 ft from the top of the stormwater pond crest elevation of 86 ft-mean sea level.

The consolidated ash dry stack surface is covered entirely with the ClosureTurf™ system. Stormwater runoff from the dry stack cap is conveyed through a system of stormwater benches and downslope channels into the cap perimeter channel, which runs around the entire perimeter of the consolidated dry stack cap. Cap benches are designed to accommodate lower flow depths/velocities and as such are armored with the ClosureTurf™ system. Downslope channels are subjected to high flow velocities and are armored with the cementitious Hydrobinder turf infill system (HydroTurf). Each downslope channel terminates into a riprap energy dissipation channel section prior to the perimeter channel in order to dissipate energy and reduce flow velocity. The cap perimeter channel is armored with a combination of HydroTurf channel side slopes and riprap channel bottoms to protect against higher flow depths. The perimeter channel drains to the south buttress stormwater system at two locations which consist of pipe culverts/drop inlet outlet systems. The outfall of each perimeter channel pipe culvert system is located within riprap armored stormwater channels. The conveyance continues to discharge to the plant main discharge canal (D-001) and then ultimately to the Apalachicola River.

11.0 Provisions for Surveillance, Maintenance, and Repair

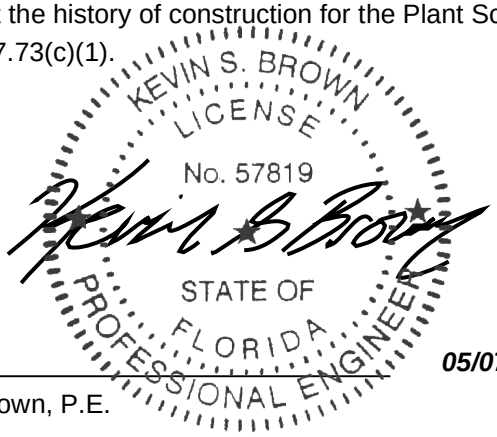
Inspections are conducted on a regular basis, at least annually by professional dam safety engineers and at least weekly by trained plant personnel as required by 257.84. The inspections provide assurance that structures are sound and that action is taken, as needed, based on the findings. Safety inspections include observations of such things as conditions of slopes and drains, erosion, animal damage, ant hills, alignment of retaining structures and more. Annual engineering inspections include any maintenance or remediation performed since the previous inspection, checking the status of work recommended at prior inspections, ensuring that the posting of emergency notification information is up-to-date and evaluating any items noted during plant personnel inspections.

12.0 Known Record of Structural Instability

There are no known instances of structural instability at the CCR unit.

CERTIFICATION

I certify that the history of construction for the Plant Scholz Closed Ash Pond was compiled in accordance with 40 C.F.R. §257.73(c)(1).



Brown, Kevin (USKB701190)

Digitally signed by Brown, Kevin (USKB701190)
DN: cn=Brown, Kevin (USKB701190), ou=WSPObjects, email=kevin.brown@wsp.com
Date: 2026.05.07 09:08:01 -04'00'

This item has been digitially signed and sealed by Kevin Brown on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

05/07/26

Kevin S. Brown, P.E.

Florida Licensed Professional Engineer No. 57819

WSP USA, Inc.

APPENDIX A

Historical Construction Drawings



Southern Company Services, Inc.
FOR
Gulf Power Company

PLANT SCHOLZ
SITE LOCATION MAP

DESIGNED	DRAWN	CHECKED
GSG	RPM	BURT

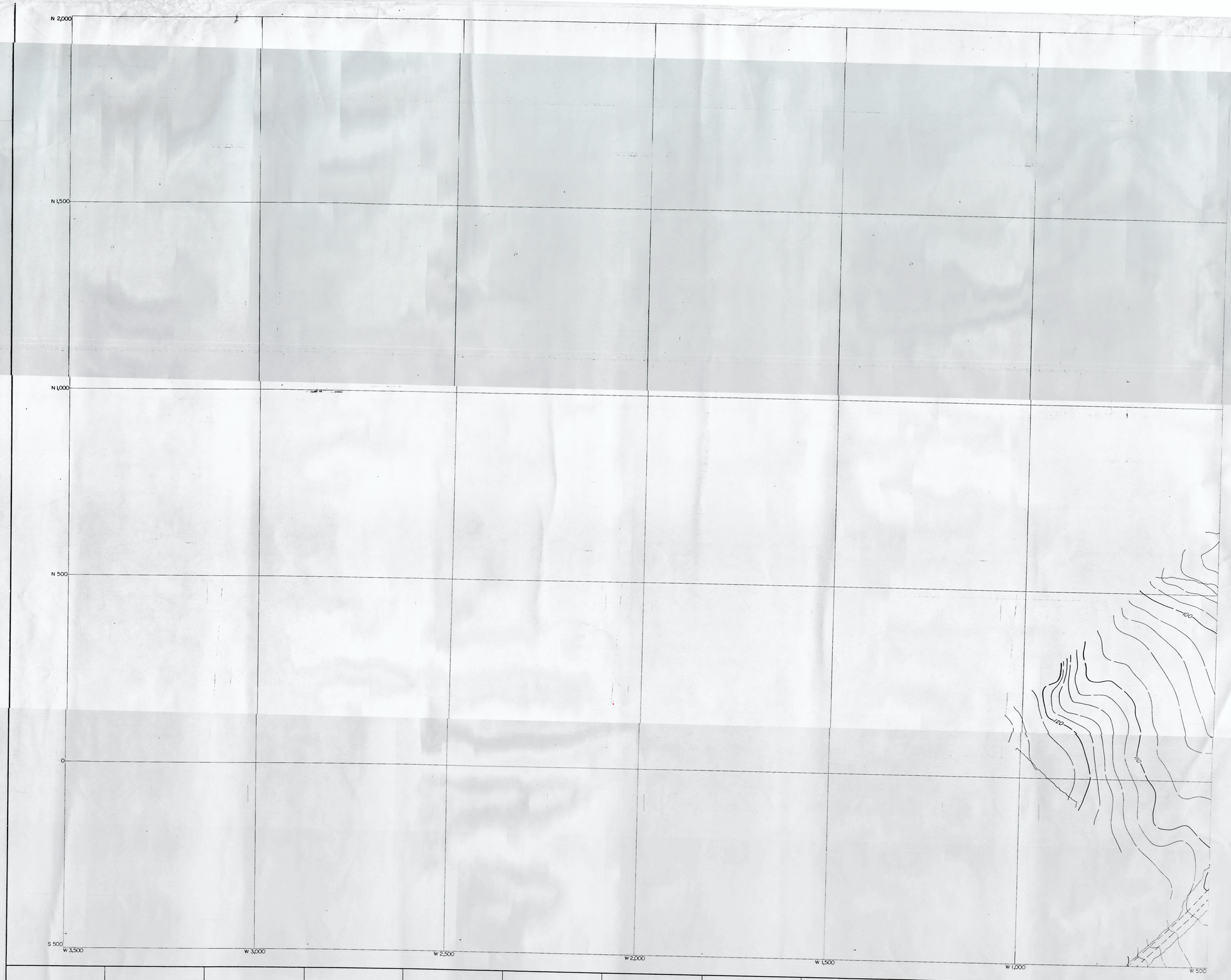
SCALE	PROJECT I.D.	DRAWING NUMBER	REV.
1" = 500'	10-21-83	EPS 4038-17	

TOPOGRAPHIC MAP
OF
SCHOLZ PLANT

PREPARED FOR
GULF POWER COMPANY



NOTES:
(1.) GROUND CONTROL ESTABLISHED BY CLIENT.
(2.) DASHED CONTOURS APPROXIMATE DUE TO HEAVY VEGETATION



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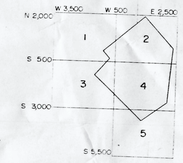

PREPARED BY
Atlantic Aerial Surveys, Inc.
Huntsville Alabama

A.A.S.I. W.O. #0723-51

BY PHOTOGRAMMETRIC METHODS
FROM AERIAL PHOTOGRAPHS TAKEN
DURING THE MONTH OF NOVEMBER, 1985.

FOR REFERENCE USE ONLY

GULF POWER COMPANY	
JOB PLANT SCHOLZ UNITS 1 AND 2	
DETAIL TOPOGRAPHIC MAP 1" = 100' SHEET 1 OF 5	
SCALE 1" = 100'	B/M
SHEET 1 OF 5 SHEETS SUPERSEDES	D-PS-4038-32

DRAWN BURT CHECKED TRACED
APPROVED DATE
APPROVED DATE

TOPOGRAPHIC MAP
OF
SCHOLZ PLANT

PREPARED FOR

GULF POWER COMPANY

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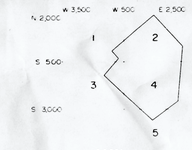



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GULF POWER COMPANY	
JOB SCHOLZ PLANT	
DETAIL PLANT Scholz Units 1&2 TOPOGRAPHY MAP 1"=100' Sheet 2 of 5	
SCALE	B/M
SHEET 2 OF 5 SHEETS	D-PS 4038-33
SUPERSEDES	

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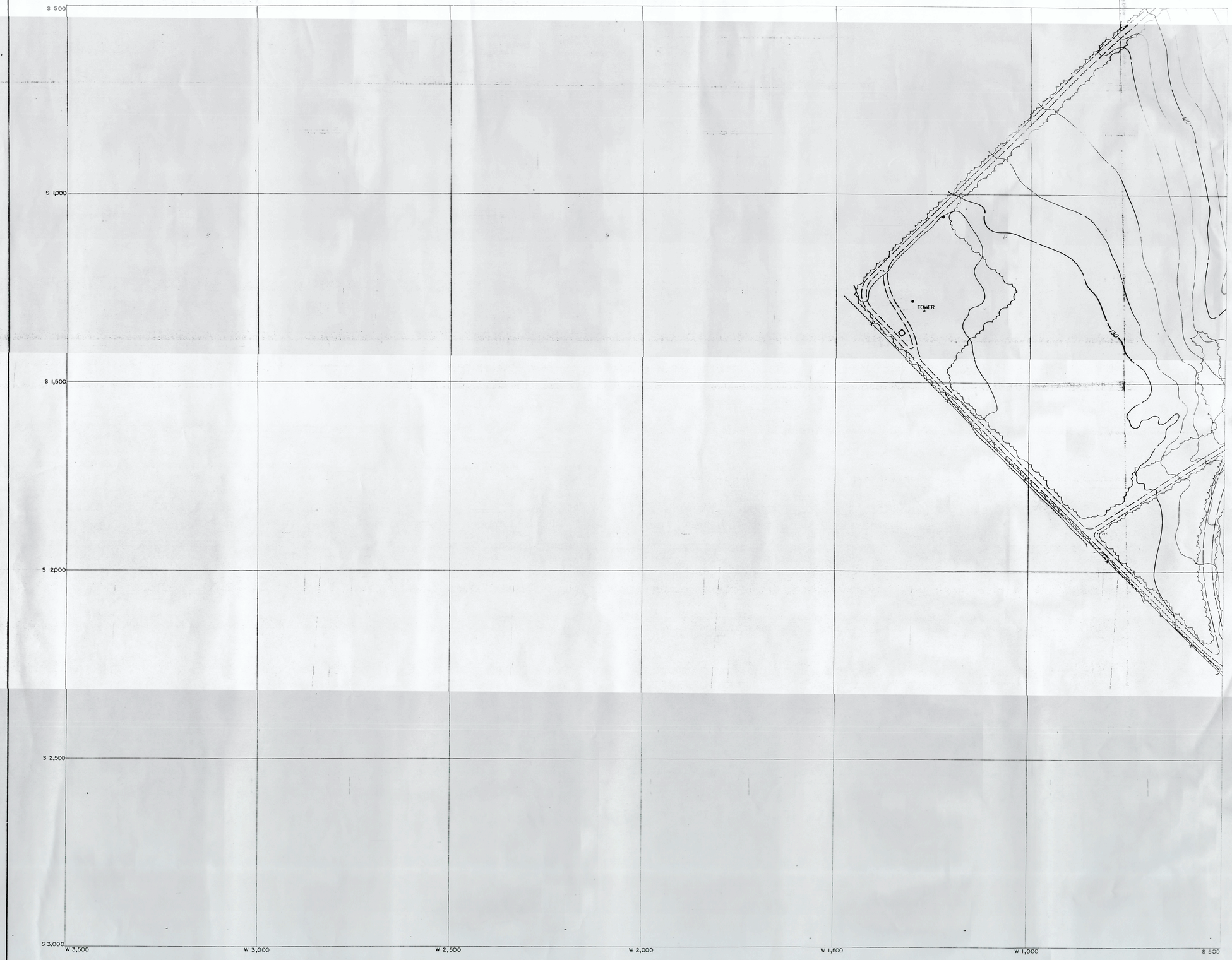
APPROVED DATE
APPROVED DATE



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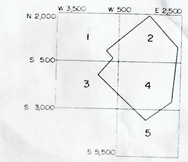

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JOB PLANT SCHOLZ UNITS 1 AND 2
DETAIL TOPOGRAPHIC MAP 1"=100'
SHEET 3 OF 5
SCALE 1"= 100' D/M
SHEET 3 OF 5 SHEETS
SUPERSEDES

D-PS-4038-34

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APPROVED DATE
APPROVED DATE

TOPOGRAPHIC MAP
OF
SCHOLZ PLANT

PREPARED FOR

GULF POWER COMPANY



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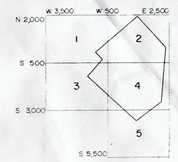

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JOB PLANT SCHOLZ UNITS 1 AND 2
DETAIL TOPOGRAPHIC MAP 1" = 100'
SHEET 4 OF 5

SCALE 1" = 100' B/M
SHEET 4 OF 5 SHEETS
SUPERSEDES

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APPROVED DATE
APPROVED DATE

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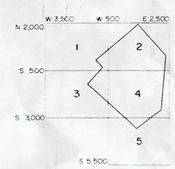

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SHEET 5 OF 5

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SCALE 1" = 100' B/M
SHEET 5 OF 5 SHEETS
SUPERSEDES

D-PS-4038-36



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GULF POWER COMPANY

JOB PLANT SCHOLZ

DETAIL TOPO MAP OF PLANT AND SURROUNDING AREA

SCALE NOT TO SCALE B/M

SHEET 1 OF 14 SHEETS

SUPERSEDES

D-308168

SCH: 1404
DATE

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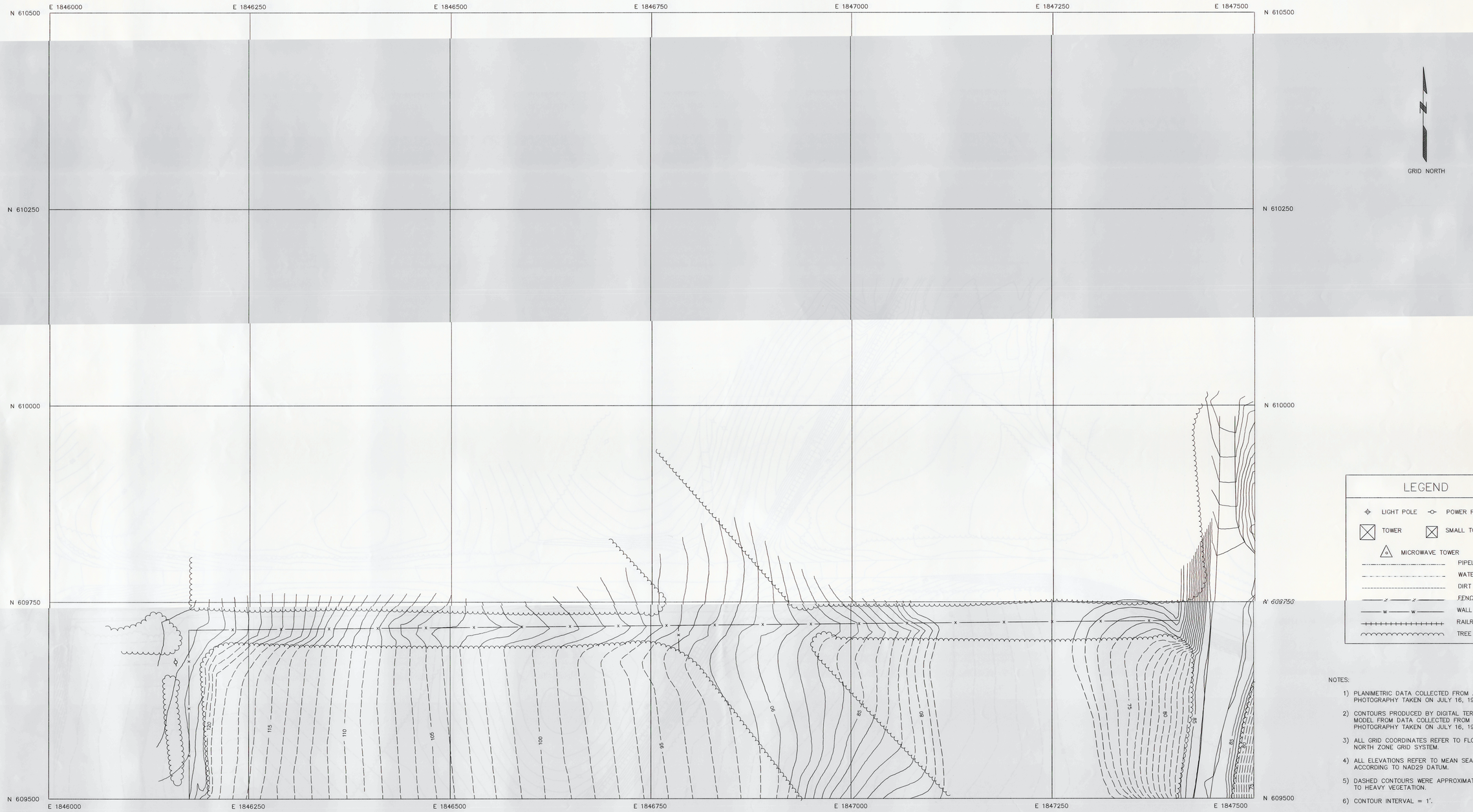
APPROVED DATE



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4) ALL ELEVATIONS REFER TO MEAN SEA LEVEL ACCORDING TO NAD29 DATUM.
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6) CONTOUR INTERVAL = 1'.

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

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GULF POWER COMPANY

JOB PLANT SCHOLZ
DETAIL TOPO MAP OF PLANT AND SURROUNDING AREA

SCH: 1404
DATE

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APPROVED _____ DATE _____

SCALE 1" = 50' B/M _____
SHEET 2 OF 14 SHEETS
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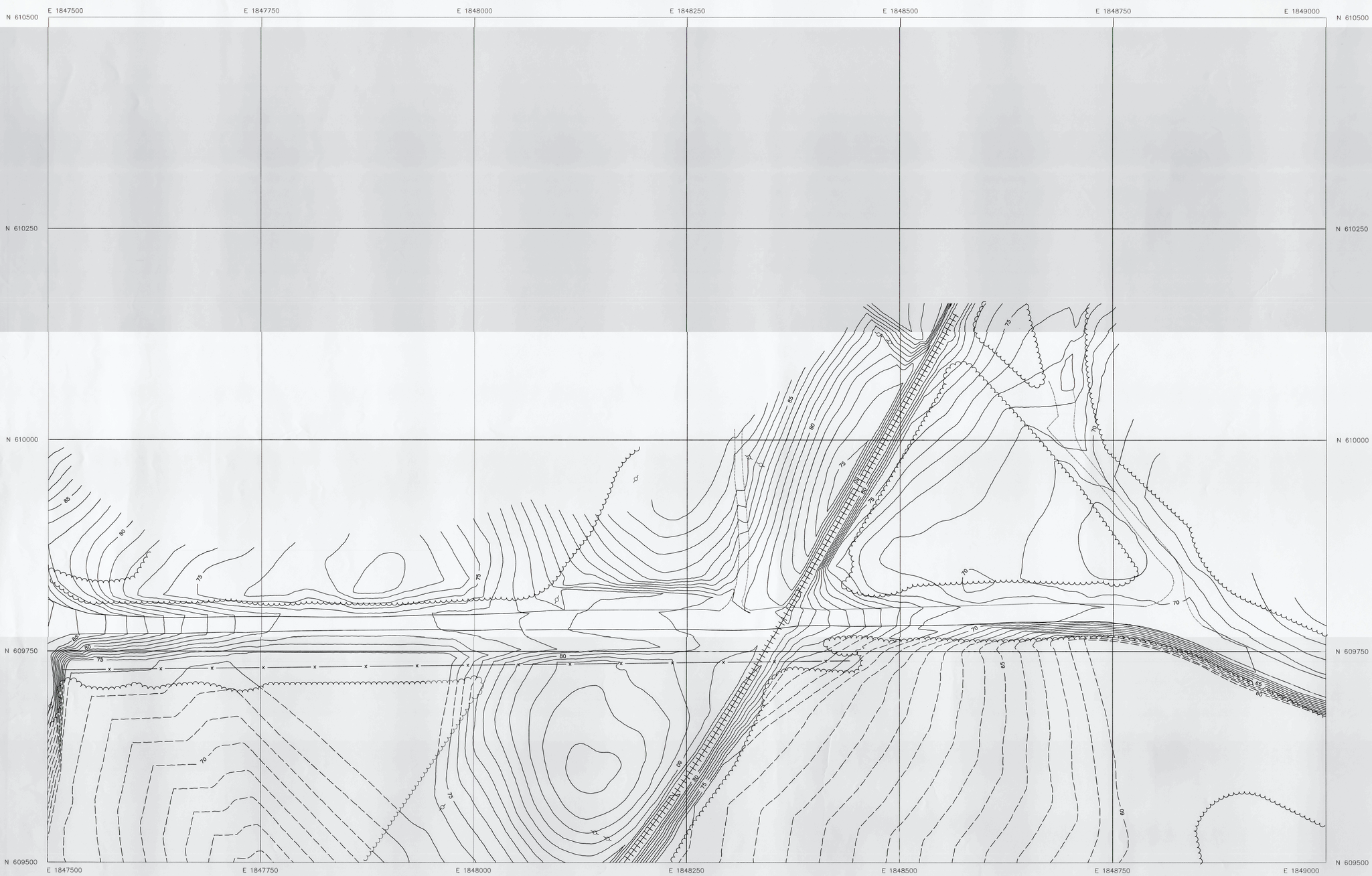

GRID NORTH

LEGEND

- LIGHT POLE
- POWER POLE
- TOWER
- SMALL TOWER
- MICROWAVE TOWER
- PIPELINE
- WATER
- DIRT ROAD
- FENCE
- WALL
- RAILROAD
- TREE LINE

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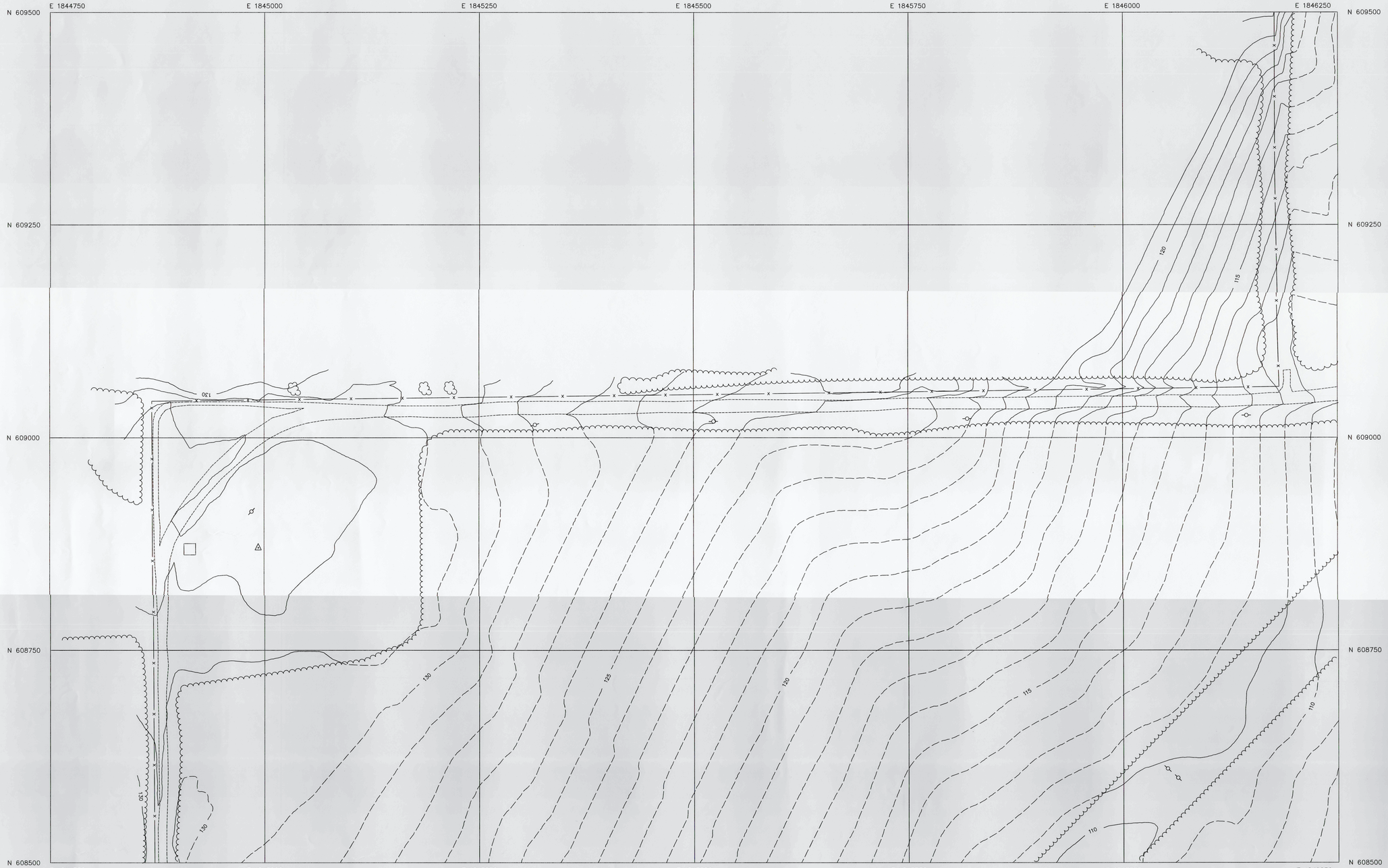

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SHEET 4 OF 14 SHEETS

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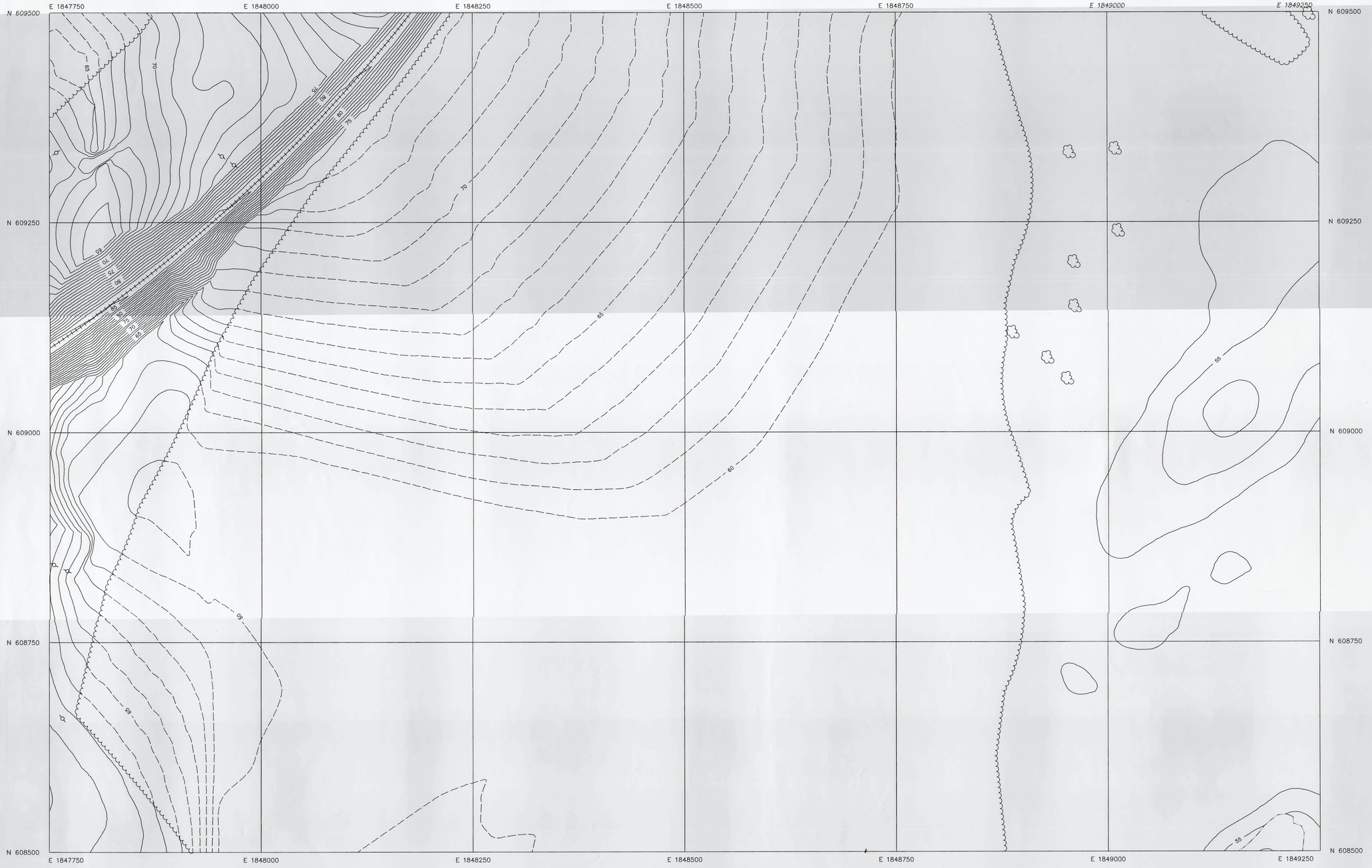

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5) DASHED CONTOURS WERE APPROXIMATED DUE TO HEAVY VEGETATION.
6) CONTOUR INTERVAL = 1'.

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

PRODUCED BY: ALABAMA POWER COMPANY
POWER GENERATION TECHNICAL SERVICES – CIVIL

GULF POWER COMPANY

JOB PLANT SCHOLZ

DETAIL TOPO MAP OF PLANT AND SURROUNDING AREA

SCALE 1" = 50' B/M

SHEET 6 OF 14 SHEETS

SUPERSEDES

D-308168

SCH: 1404
DATE

DRAWN CHECKED DATE

APPROVED DATE

APPROVED DATE



GRID NORTH

LEGEND

- LIGHT POLE
- POWER POLE
- TOWER
- SMALL TOWER
- MICROWAVE TOWER
- PIPELINE
- WATER
- DIRT ROAD
- FENCE
- WALL
- RAILROAD
- TREE LINE

NOTES:

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JOB PLANT SCHOLZ

DETAIL TOPO MAP OF PLANT AND SURROUNDING AREA

SCH: 1404
DATE

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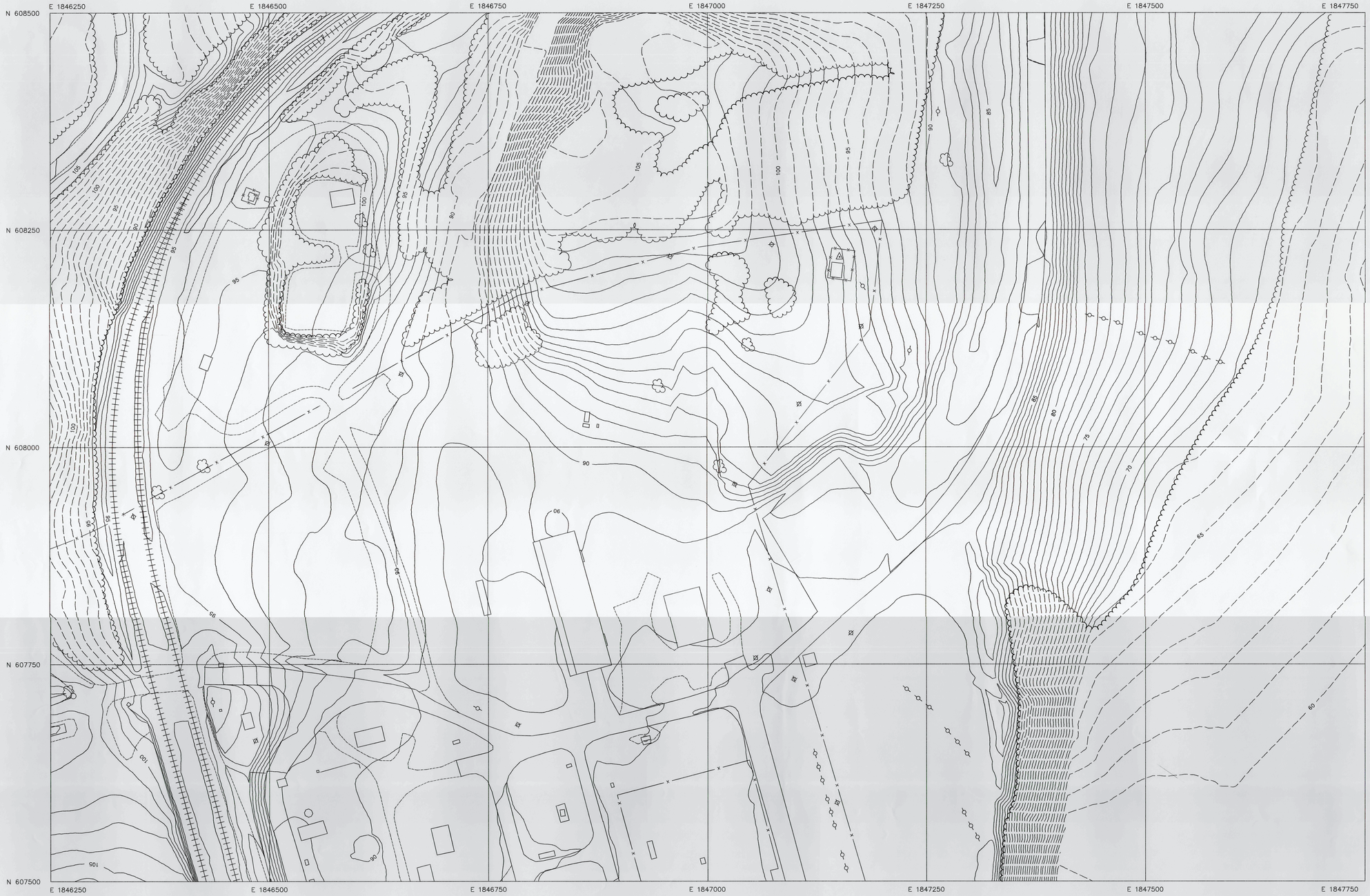
APPROVED _____ DATE _____

APPROVED _____ DATE _____

SCALE 1" = 50' B/M _____

SHEET 7 OF 14 SHEETS
SUPERSEDES

D-308168



GRID NORTH

LEGEND

- LIGHT POLE
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- TOWER
- SMALL TOWER
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- WATER
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GULF POWER COMPANY

JOB PLANT SCHOLZ

DETAIL TOPO MAP OF PLANT AND SURROUNDING AREA

SCALE 1" = 50' B/M

SHEET 8 OF 14 SHEETS

SUPERSEDES

D-308168

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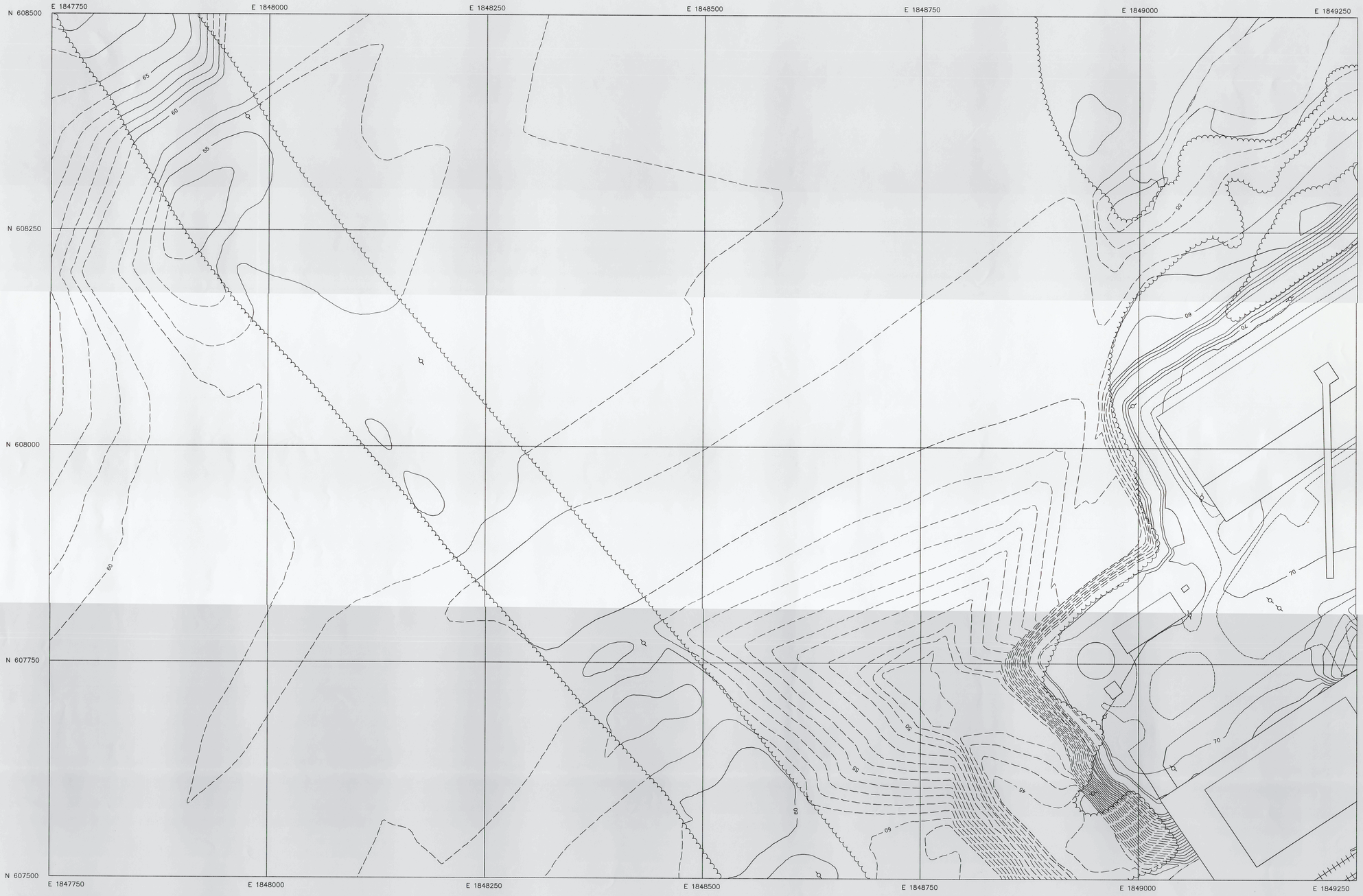
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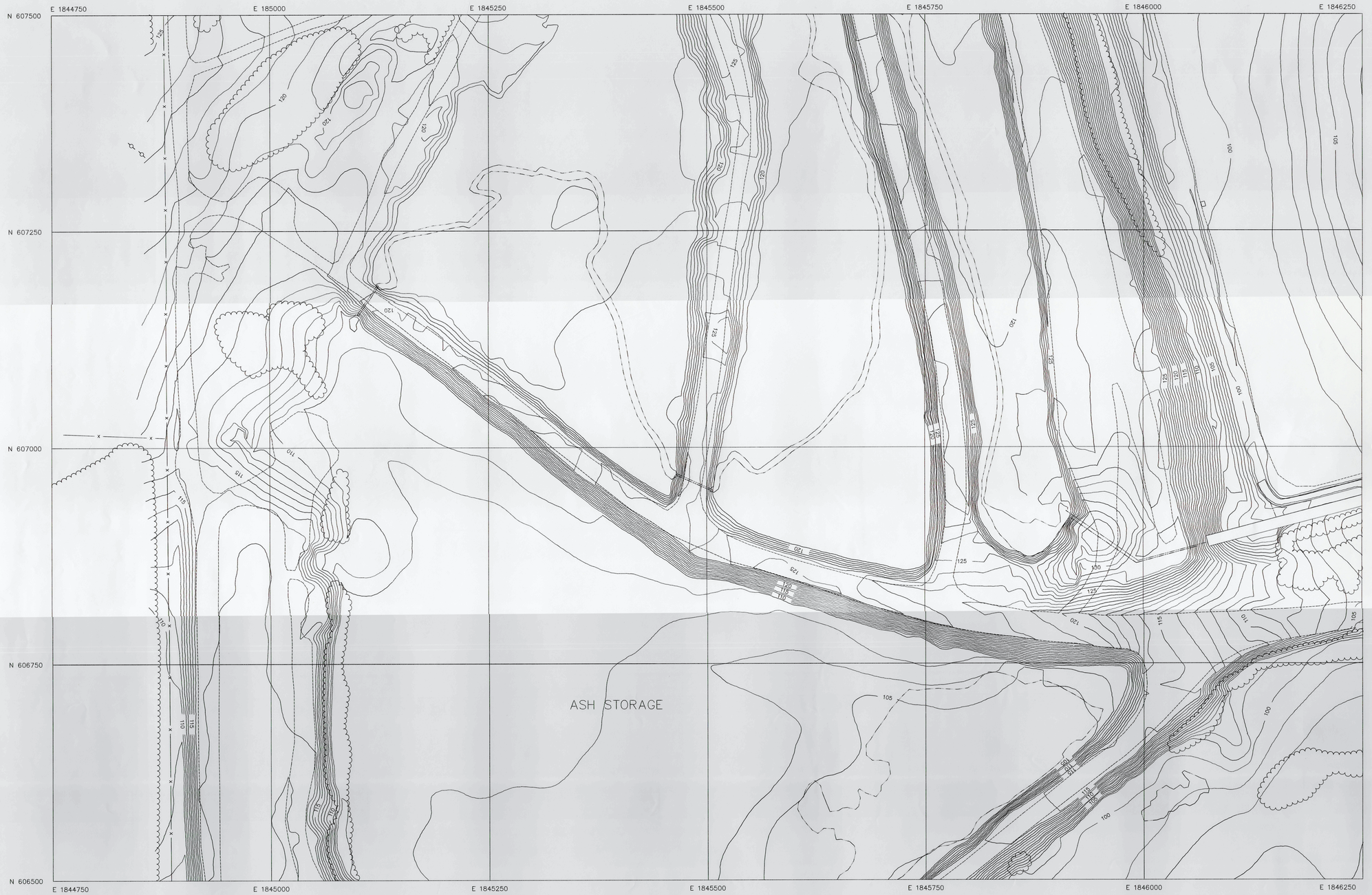

GRID NORTH

LEGEND

- LIGHT POLE
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PRODUCED BY: ALABAMA POWER COMPANY
POWER GENERATION TECHNICAL SERVICES – CIVIL

GULF POWER COMPANY

JOB PLANT SCHOLZ

DETAIL TOPO MAP OF PLANT AND SURROUNDING AREA

SCALE 1" = 50' B/M

SHEET 10 OF 14 SHEETS

SUPERSEDES

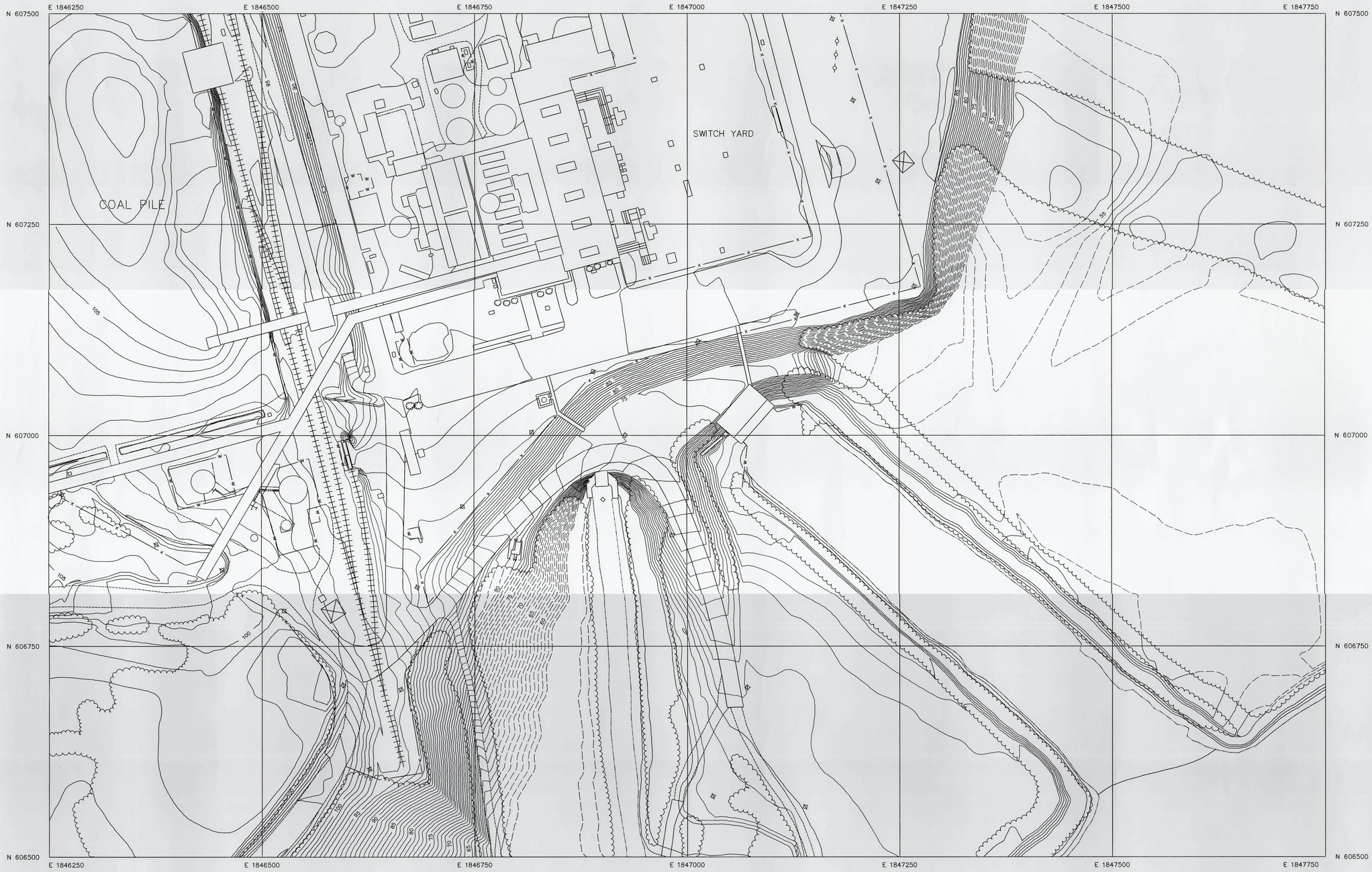
D-308168

SCH: 1404
DATE

DRAWN _____ CHECKED _____ DATE _____

APPROVED _____ DATE _____

APPROVED _____ DATE _____



LEGEND

- LIGHT POLE
- POWER POLE
- TOWER
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6) CONTOUR INTERVAL = 1'.

GRAPHIC SCALE

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(IN FEET)
1 inch = 50 ft.

PRODUCED BY: ALABAMA POWER COMPANY
POWER GENERATION TECHNICAL SERVICES – CIVIL

GULF POWER COMPANY

JOB PLANT SCHOLZ

DETAIL TOPO MAP OF PLANT AND SURROUNDING AREA

SCALE 1" = 50' B/M

SHEET 11 OF 14 SHEETS

SUPERSEDES

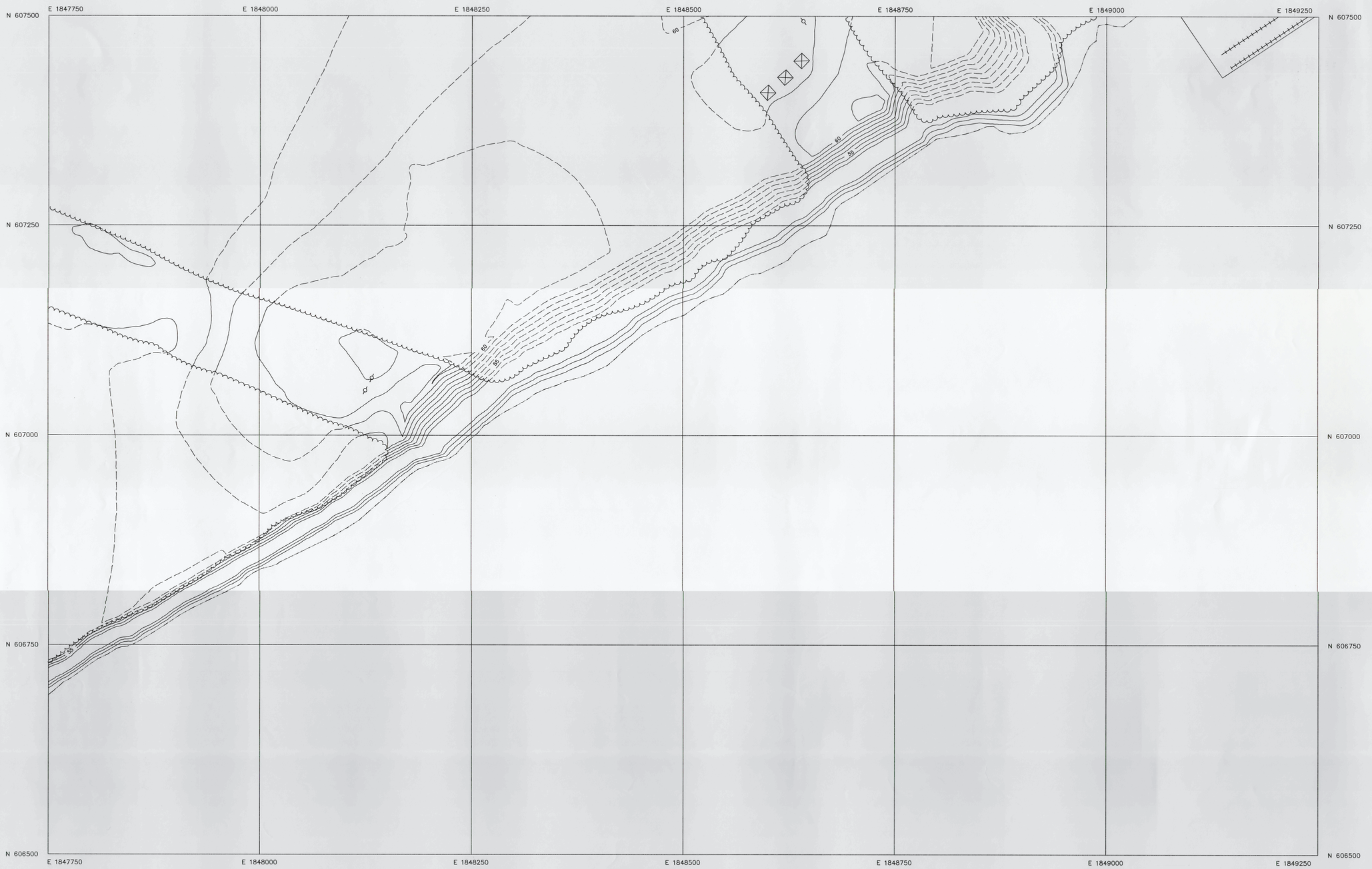
D-308168

SCH: 1404
DATE

DRAWN _____ CHECKED _____ DATE _____

APPROVED _____ DATE _____

APPROVED _____ DATE _____



LEGEND

- LIGHT POLE
- POWER POLE
- TOWER
- SMALL TOWER
- MICROWAVE TOWER
- PIPELINE
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6) CONTOUR INTERVAL = 1'.

GRAPHIC SCALE

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(IN FEET)
1 inch = 50 ft.

PRODUCED BY: ALABAMA POWER COMPANY
POWER GENERATION TECHNICAL SERVICES – CIVIL

GULF POWER COMPANY

JOB PLANT SCHOLZ

DETAIL TOPO MAP OF PLANT AND SURROUNDING AREA

SCH: 1404
DATE

DRAWN _____ CHECKED _____ DATE _____

APPROVED _____ DATE _____

APPROVED _____ DATE _____

SCALE 1" = 50' B/M _____

SHEET 12 OF 14 SHEETS

SUPERSEDES

D-308168



GRID NORTH

LEGEND

- LIGHT POLE
- POWER POLE
- TOWER
- SMALL TOWER
- MICROWAVE TOWER
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- DIRT ROAD
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GRAPHIC SCALE

50 0 25 50 100 200

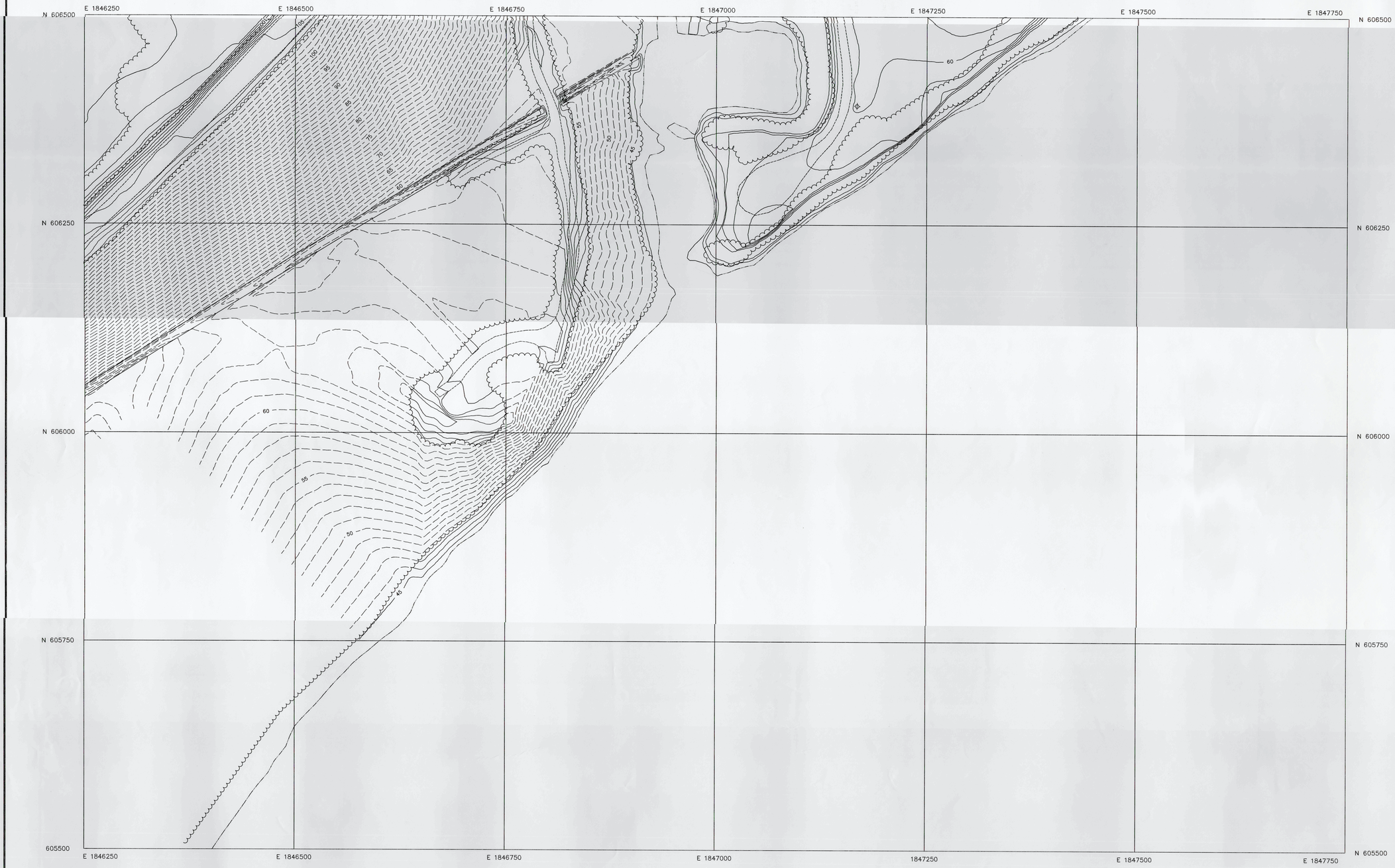
(IN FEET)
1 inch = 50 ft.

PRODUCED BY: ALABAMA POWER COMPANY
POWER GENERATION TECHNICAL SERVICES – CIVIL

SCH: 1404
DATE

DRAWN _____ CHECKED _____ DATE _____
APPROVED _____ DATE _____
APPROVED _____ DATE _____

GULF POWER COMPANY
JOB PLANT SCHOLZ
DETAIL TOPO MAP OF PLANT AND SURROUNDING AREA
SCALE 1" = 50' B/M _____
SHEET 13 OF 14 SHEETS
SUPERSEDES
D-308168



LEGEND

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6) CONTOUR INTERVAL = 1'.

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

PRODUCED BY: ALABAMA POWER COMPANY
POWER GENERATION TECHNICAL SERVICES – CIVIL

GULF POWER COMPANY

JOB PLANT SCHOLZ

DETAIL TOPO MAP OF PLANT AND SURROUNDING AREA

SCALE 1" = 50' B/M

SHEET 14 OF 14 SHEETS

SUPERSEDES

D-308168

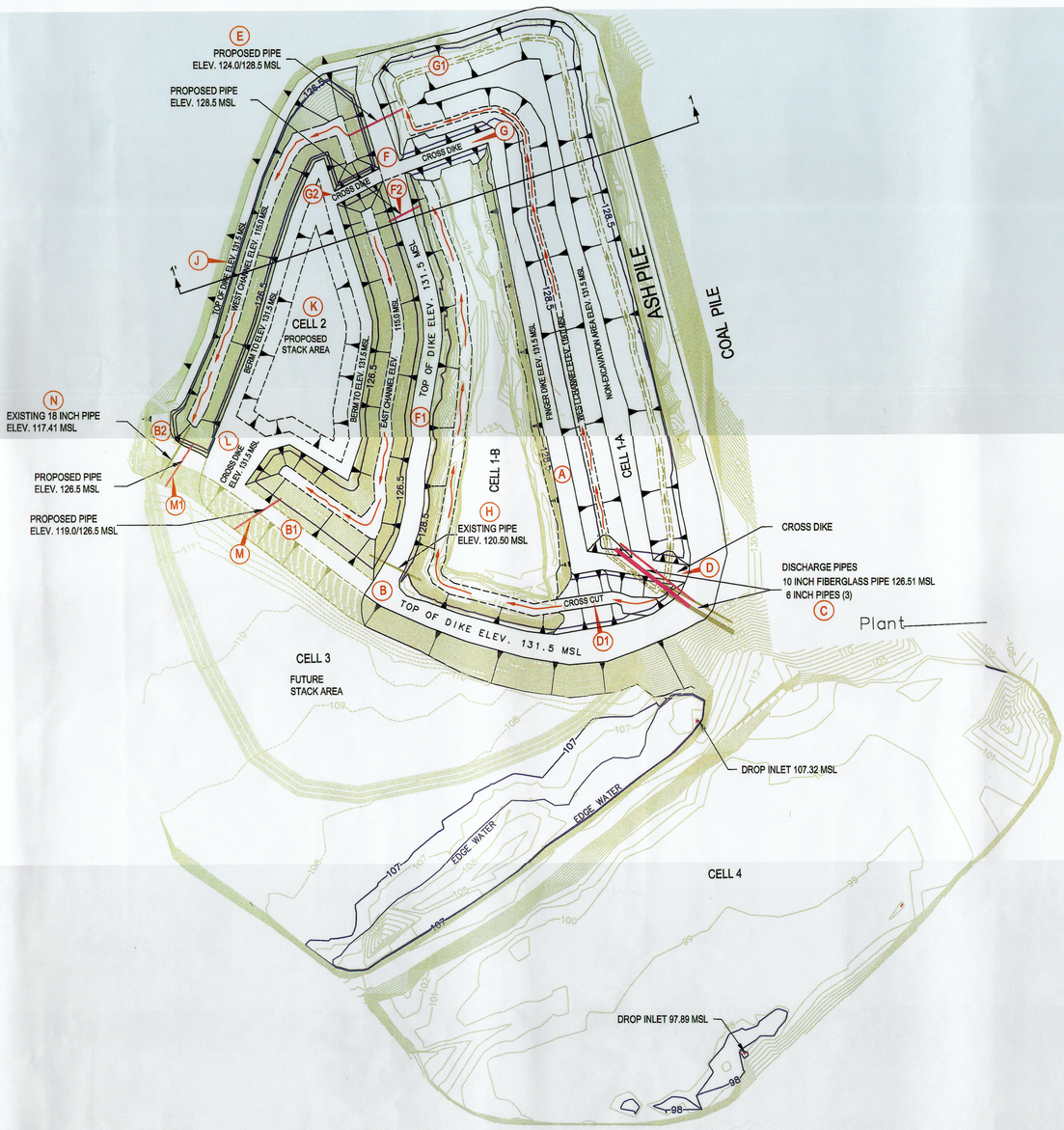
SCH: 1404
DATE

DRAWN CHECKED DATE

APPROVED DATE

APPROVED DATE

PLANT SCHOLZ ASH POND



PROPOSED SEQUENCE OF CONSTRUCTION

The initial phase of work is to concentrate on providing volume in Cells **1** and **2** to meet your 2003-2005 demands. Center dikes allow access to pull materials and build platforms, and continuously create below-pipe-invert-volume. Switching flow directions allows backhoe/dragline work, stacking, and pipe replacement while maintaing flow and minimizing increased suspended solids. Future phases would call for raising the lower dikes and dry-stacking in Cell 3.

Phase 1:
The general scheme of Phase 1 is to widen and raise the dikes around Cell **1**; construct cross dikes and cross cut to create two impoundment areas within Cell **1**. This will allow alternate excavation and stacking in the non-flowing channels, creating the opportunity for more stack volume by working adjacent to two exit channels and pipes all the way to elevation 128.5 msl. Individual steps are:

1) Remove dry ash at finger dike **(A)** to elevation 131.5 msl. (13,000 yd3). Use material to raise and widen dike **(B)** between Cell **1** and Cell **3**, extending to the separator dike between Cell **1** and Cell **2** (12,000 yd3) at about point **(B)**.

2) Excavate cross-channel up around point **(G1)** to prepare for flow directly to temporary pipe **(E)**, but still allowing flow to go around the bend and get down to the area at pipe **(H)**.

3) Start cross-dike at **(G)**. Install exit pipe at **(E)** to elevation 124 msl., with capability of placing future header on same pipe with entrance set at elevation 128.5 msl., and bring up the separator dike at area **(F)** to elevation 131.5 msl.

4) Move onto non-excavation area at mid-cell **1-A**. Excavate and deepen channel on the west side of the non-excavate platform (between platform and old finger dike). Cast material up to raise and more completely develop the platform to about elevation 127 msl. initially, then eventually tie into east ash pile.

5) Work way down to south end of non-excavation platform. Close off the east side channel. Divert flow into the west side channel of Cell **1-A**.
Note: We can now at any time continue excavating from the west channel and cast back to the old east channel to form a final wide platform for more stacking.

6) Close off the finger dike at **(G)**. Allow flow into north end of Cell **2**. Water will back up into Cell **1-A** to elevation 124 msl.

7) Build up separator dike between Cells **1-B** and **2** to elevation 131.5 msl. along **(F1)** location, and install pipe at **(F2)** to elevation 128.5 msl.

8) Extend alternate slurry delivery piping up to pond Cell **1-A (C)**. This could be done by installing a "Y" so that slurry could be diverted into Cell **1-A** or **1-B**. Discharge must be raised above elevation 128.5 msl.

9) Build cross dike **(D)** (3,000 yd3) and excavate cross cut **(D1)** (3,000 yd3) while continuing to discharge to Cell **2** through pipe at **(E)**.

10) Pull pipe at **(H)**. Crown dike to elevation 131.5 msl.

11) Open up (cut finger dike) channel to Cell **1-B** at location **(D1)**. Now this pool can fill to elevation 128.5 msl. See Section 1.

12) Construct cross dike **(G2)** (2,000 yd3) to divert flow along west channel of Cell **2** discharging at existing exit pipe **(N)** elevation 117.41 msl.

13) Install header at **(E)** to raise invert to elevation 128.5 msl. from elevation 124.0 msl.

NOTE:
a) The above modifications should increase available storage volume in Cell **1** to 70,000 yd3. (31,000 in pond Cell **1-A** & 39,000 in pond Cell **1-B**).
b) Additional fill material for raising dike between Cells **1-A/1-B** and Cell **3** can be pulled from ash pile adjacent to coal stockpile area.

Phase 2:
The general scheme for Phase 2 is to construct a central high area running generally north/south in Cell **2** creating separate east and west channels. Create more available volume by installing two discharge pipes at elevation 126.5 msl. This "switching" from one channel to the other allows new pipe installations and ash excavation without dispersing suspended solids in the ash flow. Individual steps are:

1) Excavate channels along east and west side of Cell **2** as deep and wide as equipment constraints will allow. Some of this will have been done in building up the separator dike between cells **1B** and **2**.

2) Use excavated material and clayey sand fill to raise and widen dike **(B1)** (12,000 yd3) between Cell **2** and Cell **3**, construct cross dike **(L)** (2,000 yd3) and raise berm along edge of center dike **(K)** (26,000 yd3) in Cell **2** to elevation 131.5 msl.

3) Install exit pipe **(M)** in east channel of Cell **2** to elevation 119.0 msl., with capability of placing header on same pipe with entrance set at elevation 126.5 msl.

4) Raise perimeter dike **(J)** (5,000 yd3) with material excavated out of west channel along west side of Cell **2** to elevation 131.5 msl.

5) While diverting flow down east channel of Cell 2 and out exit pipe at **(M)**, pull existing pipe at **(N)**, raise and widen dike in that area **(B2)** (4,000 yd3) and install new exit pipe **(M1)** to elevation 126.5 msl.

NOTE:
a) The above modifications should increase available storage volume in Cell **2** to a minimum of 24,000 yd3. (12,000 yd3 in east channel & 12,000 yd3 in west channel).
b) This volume based on 20 feet wide channel bottom at elevation 115.0 msl with 2:1 side slopes to discharge elevation 126.5 msl.
c) There will be an additional 13,000 yd3 of volume available to dry-stack ash (up to elevation 131.5 msl) inside the bermed area in Cell 2 (K).

Future Phases

Refer to report which accompanies this drawing for future phases and approximate available volumes. Major phases would involve further dry stacking in Cell 3 and fill-in stacking over Cells **1-B** and **2**, leaving flow in the west channels of Cells **1-A** and **2** as the long-route slurry water path to Cell **3**.

GRID COORDINATES NAD 83
FLORIDA STATE PLAN NORTH ZONE

100 0 100 200 300
Scale 1" = 100'

LEGEND

- CONTOURS OF EXISTING ASH SURFACE
- EXISTING PIPE
- PROPOSED PIPE
- TEMPORARY FLOW ROUTE
- FINAL FLOW ROUTE
- 128.5 — CONTOURS OF PROPOSED EXIT PIPE ELEVATION

NOTES:

1) FIELD DATA COLLECTED 11/7/01, 02/06/02, 03/27/02
2) CONTOURS AND VOLUMES PRODUCED FROM DIGITAL TERRAIN MODEL FROM FIELD DATA.
3) CONTOUR INTERVAL IS 1 FOOT.
4) ALL ELEVATIONS REFER TO MEAN SEA ACCORDING TO NGVD 29.
5) DRAWING IS ACCURATE ONLY AT ORIGINAL SCALE

TOPOGRAPHIC SURVEY

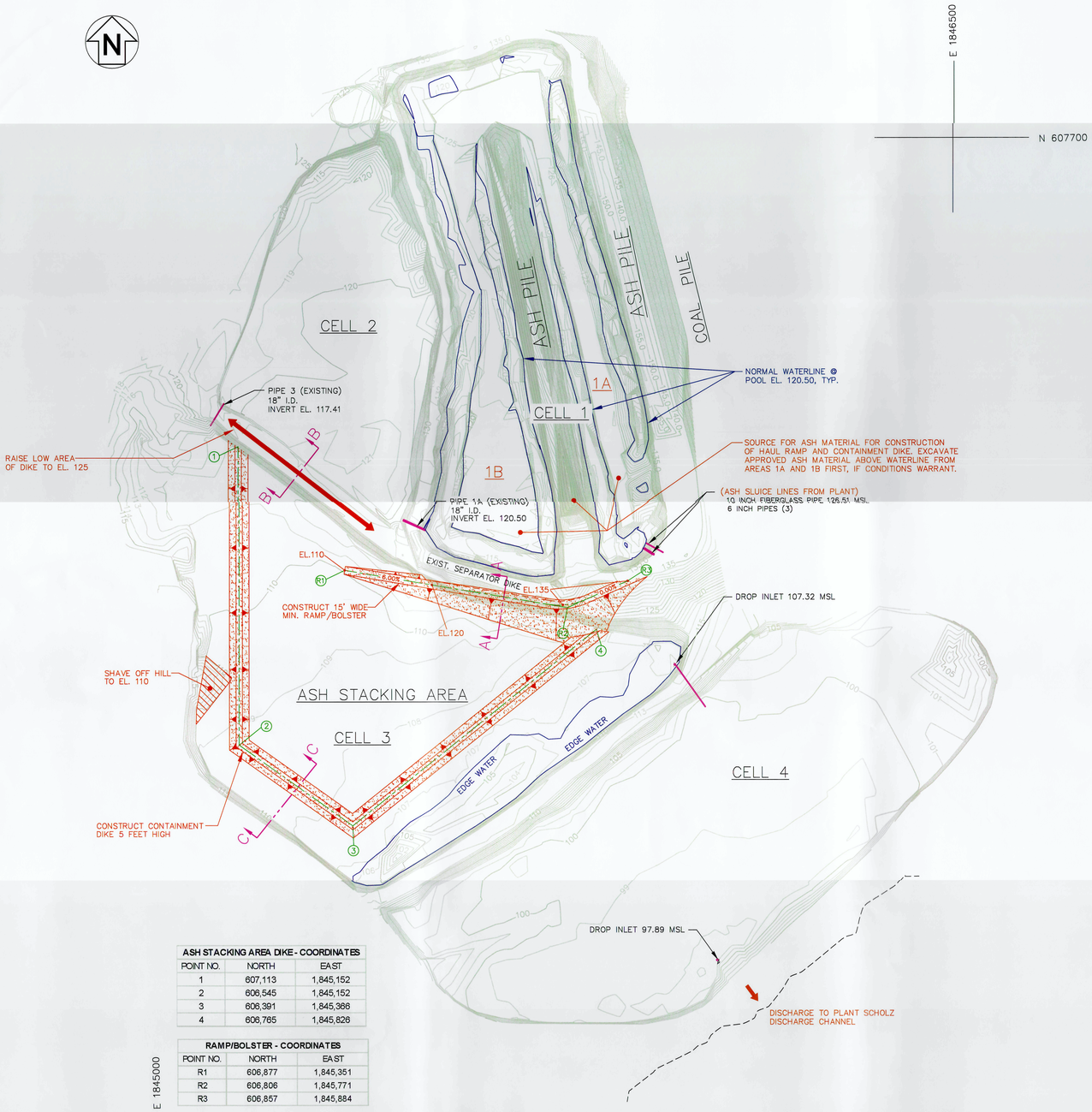
PREPARED BY: SOUTHERN COMPANY SERVICES
SURVEYING AND MAPPING DEPARTMENT
ABCO, GEN. SERVICES COMPLEX, BLD. #7

GULF POWER COMPANY
500 BAYFRONT PARKWAY
PENSACOLA, FLORIDA

JOB PLANT SCHOLZ
DETAIL ASH POND PLAN
SCALE AS SHOWN B/M
SHEET 1 OF 2
SUPERSEDES 2705SCH

							DRAWN	ENP	CHECKED	DATE
										DATE 06/25/02
										DATE

Drawing name: C:\TEMP\2705CH_ASHPND-PLAN1R5.dwg Jul 16, 2002 - 2:20pm



ASH STACKING AREA DIKE - COORDINATES		
POINT NO.	NORTH	EAST
1	607,113	1,845,152
2	606,545	1,845,152
3	606,391	1,845,386
4	606,785	1,845,826

RAMP/BOLSTER - COORDINATES		
POINT NO.	NORTH	EAST
R1	606,877	1,845,351
R2	606,806	1,845,771
R3	606,857	1,845,884

PLAN A

SITE PREPARATION STAGE

ASH POND SITE PREPARATION, CELL DIKE REMEDIAL CONSTRUCTION AND CONSTRUCTION OF AN ASH STACKING AREA

STAGES OF CONSTRUCTION FOR SHORT TERM ASH MANAGEMENT PLAN

THE SEQUENCE OF CONSTRUCTION FOR THE SHORT TERM ASH MANAGEMENT PLAN OF THE ASH POND CONSISTS OF THREE STAGES OF CONSTRUCTION. THE SITE PREPARATION STAGE PREPARES THE SITE FOR EXCAVATION AND DISPOSAL OF ASH FROM CELL 1. THIS STAGE CONSISTS OF CELL DIKE REMEDIAL CONSTRUCTION AND CONSTRUCTION OF AN ASH STACKING AREA. THE FIRST AND SECOND EXCAVATION STAGES CONSIST OF THE TWO EXCAVATION OPERATIONS IN CELL 1 – AREA 1A AND AREA 1B OF THE ASH POND.

SITE PREPARATION STAGE: - (ASH POND SITE PREPARATION, CELL DIKE REMEDIAL CONSTRUCTION, AND CONSTRUCTION OF AN ASH STACKING AREA):

THIS INITIAL STAGE CONSISTS OF REMEDIAL GRADING OF THE EXISTING MAIN SEPARATOR DIKE BETWEEN CELL 2 AND CELL 3 OF THE ASH POND, AND THE CONSTRUCTION OF AN ASH STACKING AREA IN CELL 3.

1) RAISE THE DESIGNATED LOW AREAS OF THE TOP OF THE MAIN DIKE BETWEEN CELL 2 AND CELL 3 TO EL 125 WITH SELECTED AND APPROVED EARTHEN MATERIAL.
2) EXCAVATE ASH FROM THE DESIGNATED AREAS IN CELL 1, TO BE USED AS MATERIAL TO CONSTRUCT AN ACCESS HAUL RAMP INTO CELL 3, AND TO CONSTRUCT AN ASH STORAGE CONTAINMENT DIKE IN CELL 3. MATERIAL ABOVE THE WATER LINE FROM AREA 1A AND AREA 1B SHOULD BE EXCAVATED FIRST FOR USE AS A CONSTRUCTION MATERIAL, IF THE MATERIAL IS DRY ENOUGH AND APPROVED FOR USE, AND IF CONDITIONS WARRANT.
3) CONSTRUCT A BOLSTER (FROM ASH MATERIAL FROM CELL 1) ALONG THE TOE OF THE DIKE BETWEEN CELL 1 AND CELL 3. INCORPORATE AN ASH/EARTH RAMP WITHIN THE BOLSTER TO FACILITATE ACCESS INTO THE ASH STACKING AREA.
4) CONSTRUCT AN ASH STORAGE CONTAINMENT DIKE IN CELL 3. THE DIKE WILL BECOME A PART OF THE ASH STACKING AREA AND WILL INCREASE IN HEIGHT AS ASH IS DISPOSED.

FIRST STAGE EXCAVATION OF CELL 1 – AREA 1A:

THIS STAGE IS THE FIRST STAGE EXCAVATION OF CELL 1 - AREA 1A OF THE ASH POND.

1) EXCAVATE A CHANNEL TO BREACH THE CENTER ASH PILE FINGER DIKE AND CONSTRUCT TWO TEMPORARY ASH DIVERSION DIKES A AND B IN ORDER TO RE-ROUTE FLOW AWAY FROM INITIAL AREA TO BE EXCAVATED.
2) INSTALL A TEMPORARY DISCHARGE PIPE ON THE 1B SIDE OF CELL 1, THROUGH THE SEPARATOR DIKE BETWEEN CELL 1 AND 2 AT THE CURRENT INVERT ELEVATION TO SUSTAIN THE EXISTING POOL LEVEL OF THE CELL 1 AT EL 120.5. TEMPORARILY CLOSE/PLUG EXISTING PIPE 1A THAT EXTENDS FROM CELL 1 TO CELL 2.
3) EXCAVATE CELL 1 - AREA 1A TO THE GRADES AND DIMENSIONS AS SHOWN ON THE DESIGN DRAWINGS. CONSTRUCT FINGER DIKES TO FACILITATE EXCAVATION AS NEEDED.
4) INSTALL TWO NEW DISCHARGE PIPES (PIPE 2A AND PIPE 2B) ON THE 1A SIDE OF CELL 1 FOR ROUTING FLOW DURING THE SECOND STAGE EXCAVATION WORK IN CELL 1 - AREA 1B. PIPE 2A WILL BE TEMPORARY AND INSTALLED TO SUSTAIN THE EXISTING POOL AT EL 120.5 DURING EXCAVATION OF CELL 1B. AFTER WHICH, PIPE 2A WILL BE GROUTED CLOSED. PIPE 2B WILL BE PERMANENT AND INSTALLED TO INCREASE NORMAL POOL LEVEL 2 FEET IN CELL 1 TO EL 122.5 AFTER THE SHORT TERM EXCAVATION WORK IS COMPLETED.

SECOND STAGE EXCAVATION OF CELL 1 – AREA 1B:

THIS STAGE IS THE SECOND STAGE EXCAVATION OF CELL 1 - AREA 1B OF THE ASH POND.

1) REMOVE DIVERSION DIKE A AND CLOSE/FILL THE CHANNEL IN THE CENTER ASH PILE FINGER DIKE OF CELL 1, IN ORDER TO RE-ROUTE AND DIRECT FLOW THROUGH AREA 1A AND THROUGH THE NEW PERMANENT DISCHARGE PIPE, PIPE 2B. DIVERSION DIKE MATERIAL MAY BE USED TO CLOSE THE CHANNEL.
2) EXCAVATE CELL 1 - AREA 1B TO THE GRADES AND DIMENSIONS AS SHOWN ON THE DESIGN DRAWINGS. CONSTRUCT FINGER DIKES TO FACILITATE EXCAVATION AS NEEDED.
3) GROUT THE TEMPORARY DISCHARGE PIPE INSTALLED DURING FIRST STAGE EXCAVATION WORK OF CELL 1 - AREA 1A.
4) INSTALL A NEW DISCHARGE PIPE, PIPE 1B, NEAR THE LOCATION OF PIPE 1A IN THE DIKE BETWEEN CELL 1 AND CELL 2. PIPE 1B WILL BE USED TO SUSTAIN NORMAL POOL LEVEL IN CELL 1 AT EL 122.5 AFTER THE SHORT TERM EXCAVATION WORK IS COMPLETED. AFTER WHICH, PIPE 1A WILL BE GROUTED CLOSED. PIPES 1B AND 2B WILL HAVE A CAP/PLUG FEATURE TO FACILITATE THE ROUTING OF FLOW FROM CELL 1 INTO CELL 2 THROUGH ONE PIPE AT A TIME, AND FOR FUTURE ROUTING AND EXCAVATION WORK.
5) REMOVE DIVERSION DIKE B AND DISPOSE OF MATERIAL IN STACKING AREA.

ANY DEVIATION FROM THE ABOVE STAGES OF CONSTRUCTION MUST BE APPROVED BY THE "PROJECT CONSTRUCTION MANAGER" OR "PCM".

NOTES:

1. WHILE CONSTRUCTING THE BOLSTER/RAMP, THE EXISTING SEPARATOR DIKE BETWEEN CELL 1 AND CELL 3 SHALL NOT BE DAMAGED. PARTICULARLY, NO CUTS SHALL BE MADE INTO DOWNSTREAM SLOPE OF THE DIKE.
2. PROPER SEDIMENT AND EROSION CONTROL MEASURES INCLUDING SILT FENCING, HAY BALES, AND OTHER SEDIMENT CONTROL MEASURES SHALL BE INSTALLED TO INHIBIT THE MIGRATION OF SUSPENDED PARTICLES TO THE POOL AREA OF CELL 3 AND INTO CELL 4, OR INTO THE PLANT'S DISCHARGE CHANNEL. THESE MEASURES SHALL BE INSTALLED AND MAINTAINED AT AREAS OF NEWLY PLACED DIKE MATERIAL AND AT AREAS WHERE ANY ASH FILL MATERIAL IS PLACED IN CELL3. AT NO TIMES SHALL TSS COUNTS EXCEED ALLOWABLE LEVELS AT THE PERMITTED DISCHARGE POINT FROM CELL 4 (SEE PROJECT CONSTRUCTION MANAGER).
3. ADDITIONAL NOTES CORRESPONDING TO SITE PREPARATION WORK CONTINUES ON DRAWING D-32128.

REFERENCES:

D-32127 SHORT TERM ASH MANAGEMENT PLAN
ASH POND – SITE PLAN - STAGE 2 & 3

D-32128 SHORT TERM ASH MANAGEMENT PLAN
ASH POND – SECTIONS AND DETAILS

TECHNICAL SPECIFICATIONS
ASH MANAGEMENT PLAN
SHORT TERM ASH MANAGEMENT PLAN

CAD D32126
AutoCAD JAB –02

Southern Company Services, Inc.
for
Gulf Power Company

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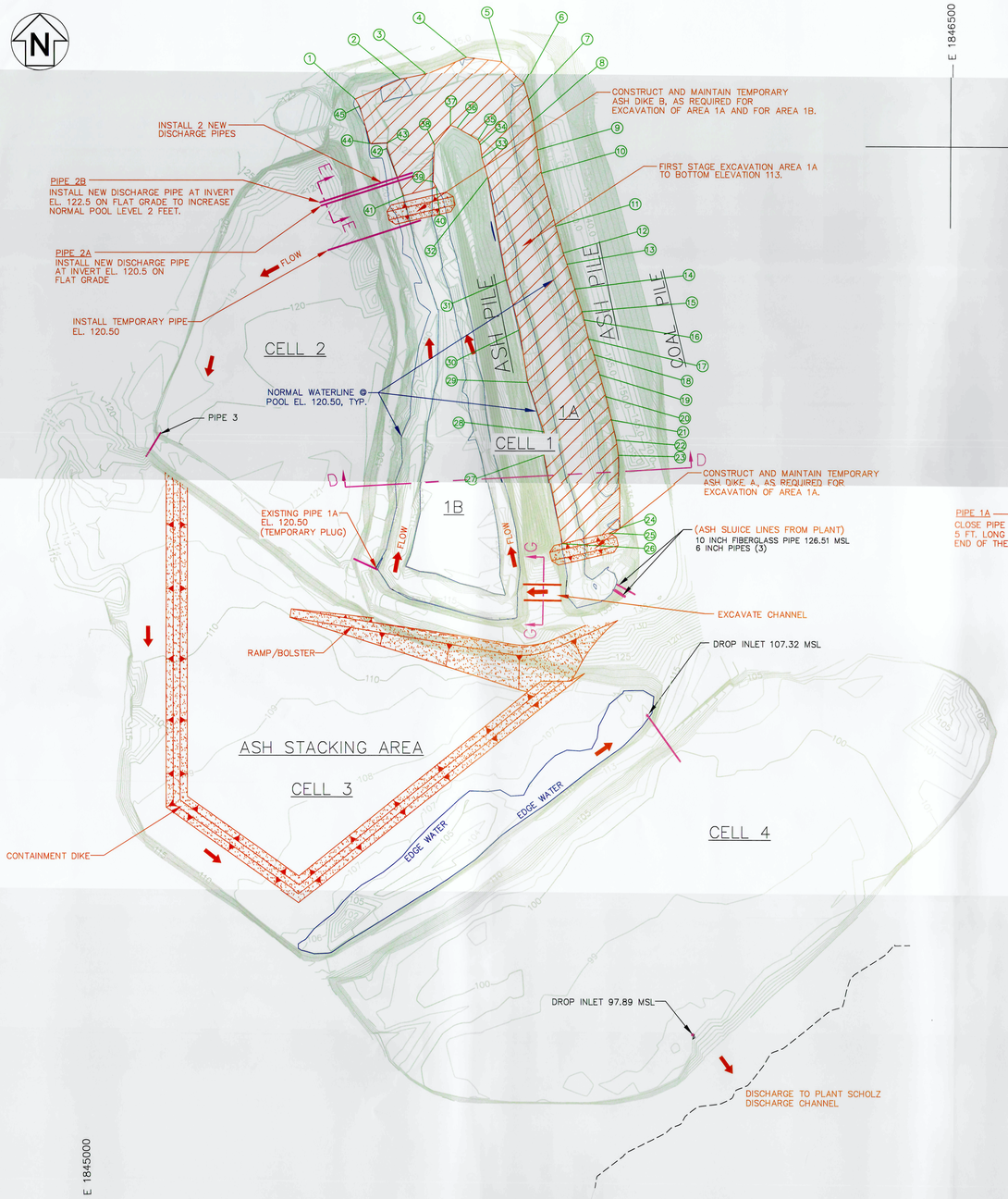
REV 0	DATE:11/13/02		
ISSUED FOR CONSTRUCTION			
JOB NO. 4379 01			

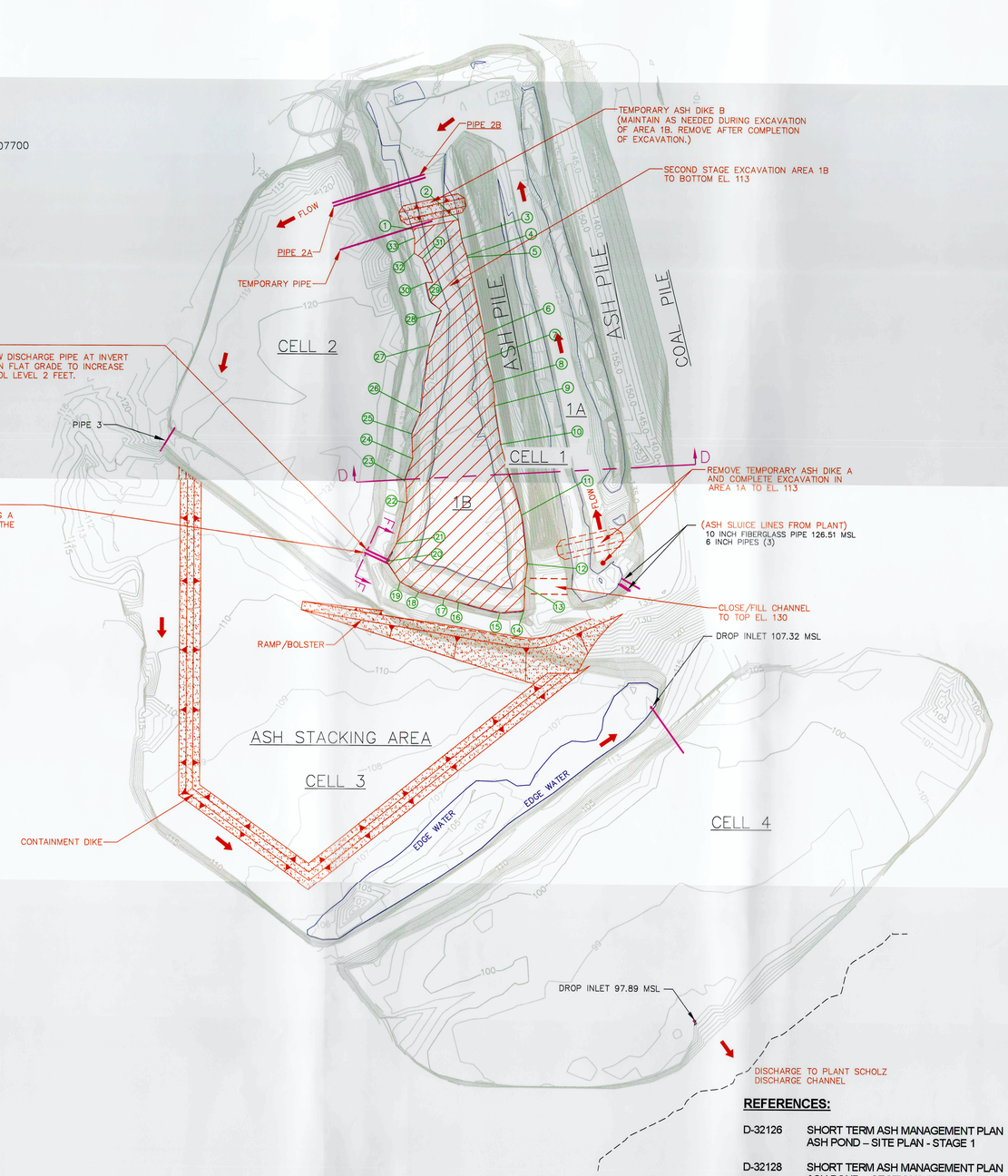
DRAWN JAB/JRF CHECKED FDB DESIGNED PMG/RMF
APPROVED JBS BLW PLY DATE
APPROVED DATE

JOB Scholz Steam Plant
DETAIL Short Term Ash Management Plan
Ash Pond – Site Plan – Stage 1
SCALE 1"=100' B/M
SHEET 1 OF 1 SHEETS
SUPERSEDES
D-32126 REV 0



PLAN B

FIRST STAGE EXCAVATION OF CELL 1 – AREA 1A



PLAN C

SECOND STAGE EXCAVATION OF CELL 1 – AREA 1B

NOTES

1. FOR SEQUENCE OF CONSTRUCTION NOTES SEE DWG. D-32126.
2. FOR FIRST AND SECOND STAGE EXCAVATION COORDINATES SEE DWG. D-32128.

REFERENCES:

D-32126 SHORT TERM ASH MANAGEMENT PLAN
ASH POND – SITE PLAN - STAGE 1

D-32128 SHORT TERM ASH MANAGEMENT PLAN
ASH POND – SECTIONS AND DETAILS

TECHNICAL SPECIFICATIONS
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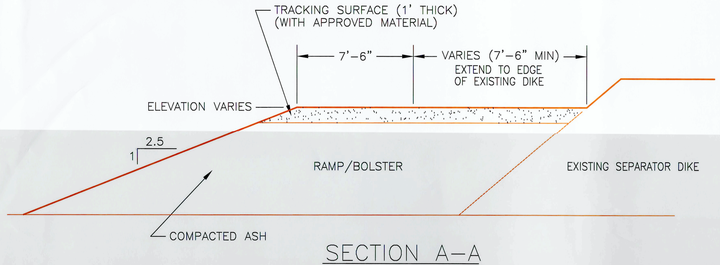
JOB Scholz Steam Plant
DETAIL Short Term Ash Management Plan
Ash Pond – Site Plan – Stage 2 & 3
SCALE 1"=100' B/M

DRAWN JAB/JRF CHECKED FDB DESIGNED PMG/RMF
APPROVED JBS BLW PLY DATE
APPROVED DATE

SHEET 1 OF 1 SHEETS
SUPERSEDES

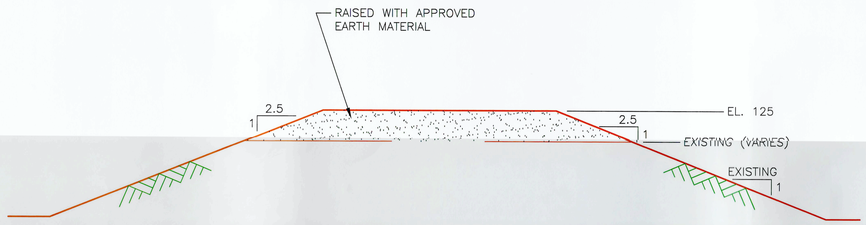
D-32127 REV 0

REV 0 DATE:11/13/02
ISSUED FOR CONSTRUCTION
JOB NO. 4379 01



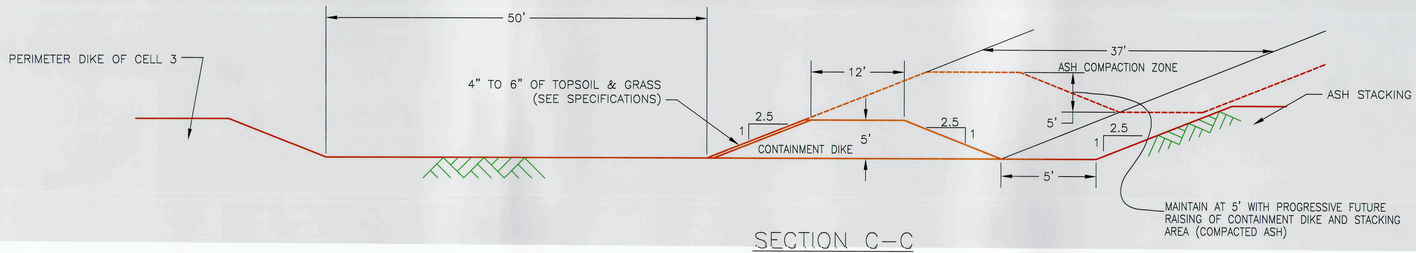
SECTION A–A

(RAMP/ BOLSTER)
SEE PLAN A DWG. D–32126



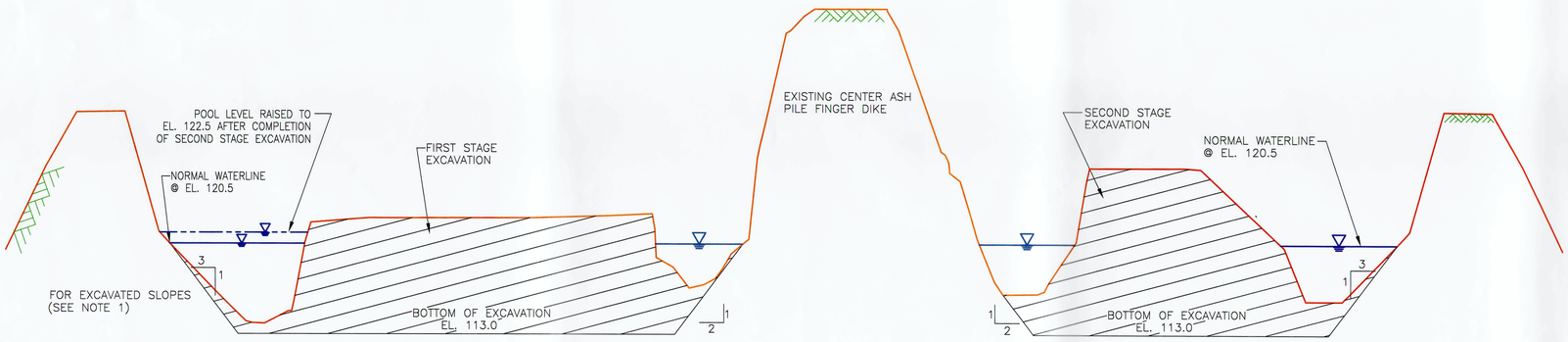
SECTION B–B

(SEPARATOR DIKE BETWEEN CELL 2 AND CELL 3)
SEE PLAN A DWG. D–32126



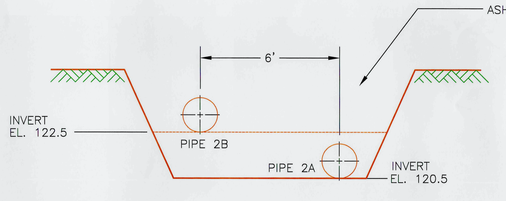
SECTION C–C

(CONTAINMENT DIKE AT ASH STACKING AREA)
SEE PLAN A DWG. D–32126



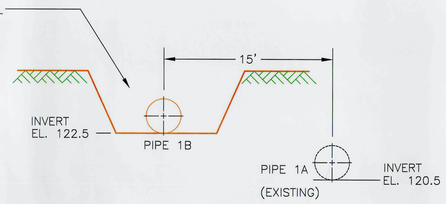
SECTION D–D

(TYPICAL X–SECTION OF EXCAVATION IN CELL 1)
SEE PLAN B DWG. D–32127



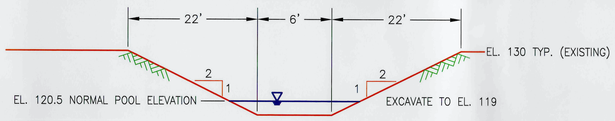
SECTION E–E

(DISCHARGE PIPES 2A AND 2B)
SEE PLAN B DWG. D–32127



SECTION F–F

(DISCHARGE PIPES 1A AND 1B)
SEE PLAN B DWG. D–32127



SECTION G–G

(TEMPORARY DIVERSION CHANNEL)
SEE PLAN B DWG. D–32127

FIRST STAGE EXCAVATION -COORDINATES

POINT NO.	NORTH	EAST
1	607,782	1,845,466
2	607,817	1,845,545
3	607,826	1,845,588
4	607,855	1,845,656
5	607,848	1,845,718
6	607,810	1,845,759
7	607,781	1,845,767
8	607,744	1,845,775
9	607,693	1,845,783
10	607,652	1,845,790
11	607,559	1,845,814
12	607,511	1,845,828
13	607,492	1,845,834
14	607,448	1,845,848
15	607,408	1,845,860
16	607,394	1,845,864
17	607,360	1,845,872
18	607,332	1,845,881
19	607,297	1,845,891
20	607,259	1,845,902
21	607,218	1,845,912
22	607,182	1,845,920
23	607,155	1,845,924
24	607,027	1,845,924
25	607,019	1,845,906
26	607,000	1,845,825
27	607,156	1,845,794
28	607,197	1,845,794
29	607,283	1,845,766
30	607,376	1,845,752
31	607,464	1,845,729
32	607,644	1,845,697
33	607,678	1,845,687
34	607,701	1,845,684
35	607,710	1,845,680
36	607,731	1,845,644
37	607,735	1,845,632
38	607,701	1,845,604
39	607,636	1,845,602
40	607,626	1,845,607
41	607,611	1,845,550
42	607,695	1,845,521
43	607,705	1,845,522
44	607,703	1,845,492
45	607,769	1,845,473

SECOND STAGE EXCAVATION -COORDINATES

POINT NO.	NORTH	EAST
1	607,553	1,845,545
2	607,571	1,845,626
3	607,537	1,845,632
4	607,506	1,845,642
5	607,504	1,845,643
6	607,366	1,845,673
7	607,322	1,845,678
8	607,279	1,845,690
9	607,237	1,845,693
10	607,168	1,845,704
11	607,041	1,845,740
12	606,954	1,845,751
13	606,915	1,845,746
14	606,870	1,845,746
15	606,866	1,845,703
16	606,884	1,845,629
17	606,891	1,845,603
18	606,902	1,845,559
19	606,920	1,845,525
20	606,957	1,845,500
21	606,989	1,845,518
22	607,062	1,845,536
23	607,102	1,845,534
24	607,142	1,845,548
25	607,186	1,845,546
26	607,224	1,845,561
27	607,346	1,845,576
28	607,407	1,845,597
29	607,424	1,845,577
30	607,458	1,845,570
31	607,501	1,845,563
32	607,510	1,845,549
33	607,538	1,845,549

NOTES:

1. THE CONTRACTOR SHALL NOT UNDERCUT THE EXISTING DIKE SLOPES DURING EXCAVATION ACTIVITIES. AT NO TIMES SHALL THE INSIDE SLOPES (WATER SIDE) OF THE PERIMETER DIKE OF CELL 1 BE EXCAVATED STEEPER THAN 3.0 H TO 1.0 V. HOWEVER, THE SIDE SLOPES OF THE CENTER ASH PILE FINGER DIKE MAY BE EXCAVATED AS STEEP AS 2.0 H TO 1.0 V., PROVIDED NO SIGN OF SLOUGHING OCCURS. ANY SHOW OF TENSION CRACKING OR LARGE–SCALE SLOUGHING OR MASS SLIDING OF MATERIAL ON THE FINGER DIKE SHALL BE REPORTED IMMEDIATELY TO THE PCM. THE TOP OF THE EXCAVATION SHALL BEGIN AT THE NORMAL WATER LINE AT EL 120.5 AS SHOWN ON THE DRAWINGS.
2. ALL NEW PIPE SHALL BE ADS HDPE N–12 TYPE S PIPE, MEETING AASHTO M294 SPECIFICATIONS, INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATION. PIPE JOINTS SHALL BE WATER TIGHT ADS N–12 TYPE IBWT.
3. ALL DISCHARGE SHALL BE PIPES 18" ø AND SHALL BE INSTALLED ON A FLAT GRADE.

REFERENCES:

D–32126 SHORT TERM ASH MANAGEMENT PLAN
ASH POND – SITE PLAN – STAGE 1

D–32127 SHORT TERM ASH MANAGEMENT PLAN
ASH POND – SITE PLAN – STAGE 2 & 3

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ASH MANAGEMENT PLAN
SHORT TERM ASH MANAGEMENT PLAN

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REV	DATE
0	11/13/02
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JOB NO. 4379 01	

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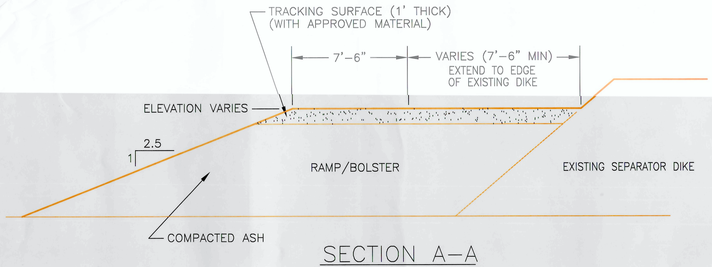
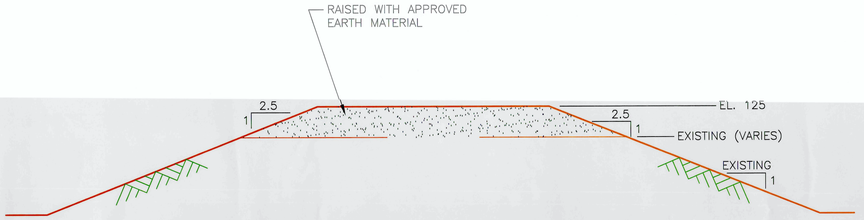
Gulf Power Company
JOB Scholz Steam Plant
DETAIL Short Term Ash Management Plan
Ash Pond – Sections and Details
SCALE NONE B/M
SHEET 1 OF 1 SHEETS
SUPERSEDES
D-32128
REV 0



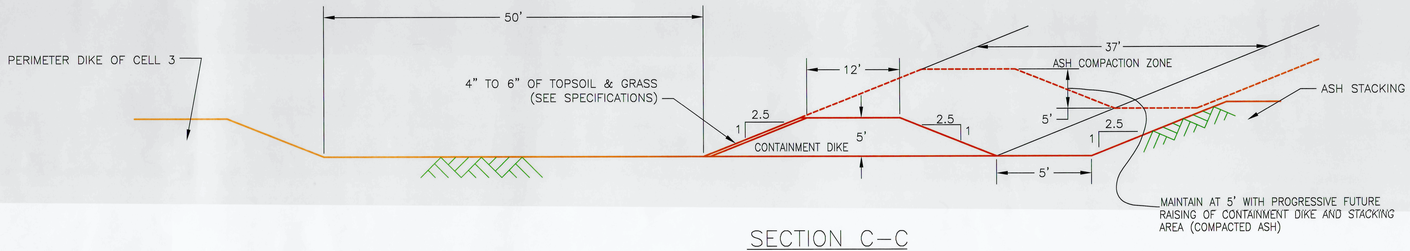
SECTION A–A

(RAMP/ BOLSTER)
SEE PLAN A DWG. D–32126



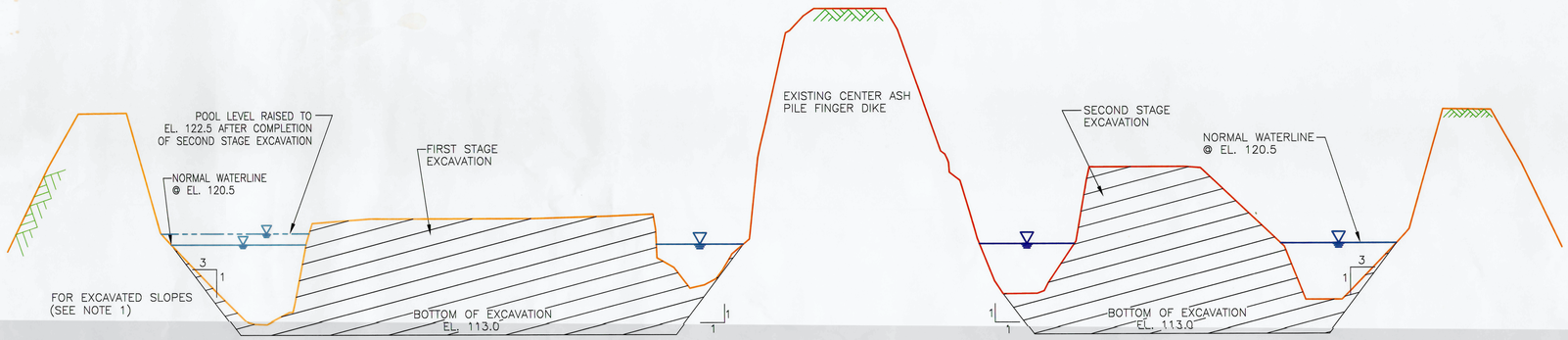
SECTION B–B

(SEPARATOR DIKE BETWEEN CELL 2 AND CELL 3)
SEE PLAN A DWG. D–32126



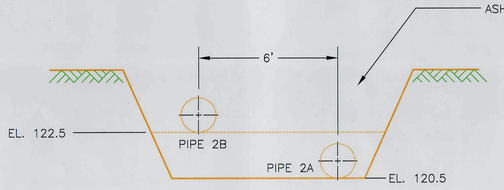
SECTION C–C

(CONTAINMENT DIKE AT ASH STACKING AREA)
SEE PLAN A DWG. D–32126



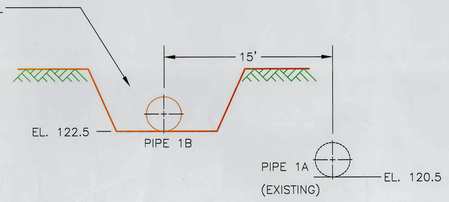
SECTION D–D

(TYPICAL X–SECTION OF EXCAVATION IN CELL 1)
SEE PLAN B DWG. D–32127



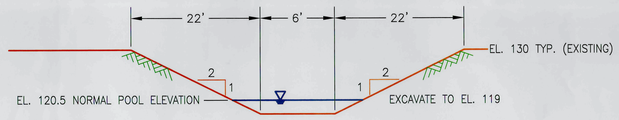
SECTION E–E

(DISCHARGE PIPES 2A AND 2B)
SEE PLAN B DWG. D–32127



SECTION F–F

(DISCHARGE PIPES 1A AND 1B)
SEE PLAN B DWG. D–32127



SECTION G–G

(TEMPORARY DIVERSION CHANNEL)
SEE PLAN B DWG. D–32127

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2	607,817	1,845,545
3	607,826	1,845,588
4	607,855	1,845,656
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POINT NO.	NORTH	EAST
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5	607,504	1,845,643
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8	607,279	1,845,690
9	607,237	1,845,693
10	607,168	1,845,704
11	607,041	1,845,740
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31	607,501	1,845,563
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2. ALL NEW PIPE SHALL BE ADS HDPE N–12 TYPE S PIPE, MEETING AASHTO M294 SPECIFICATIONS, INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATION. PIPE JOINTS SHALL BE WATER TIGHT ADS N–12 TYPE IBWT.
3. ALL DISCHARGE PIPE 18" ø

REFERENCES:

D–32126 SHORT TERM ASH MANAGEMENT PLAN
ASH POND – SITE PLAN – STAGE 1

D–32127 SHORT TERM ASH MANAGEMENT PLAN
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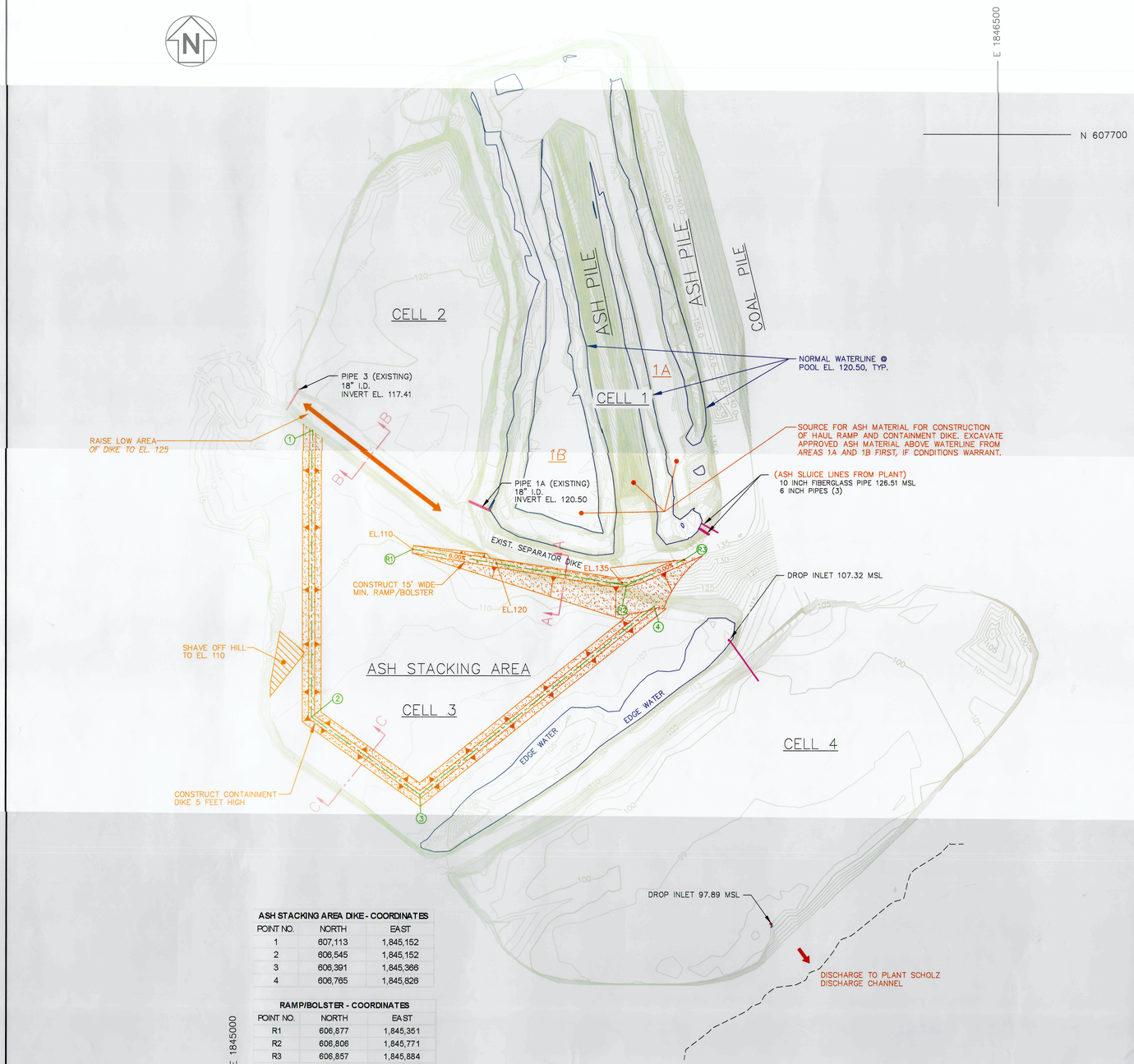
JOB Scholz Steam Plant
DETAIL Short Term Ash Management Plan
Ash Pond – Sections and Details
SCALE NONE B/M
DRAWN JAB/JRF CHECKED FDB DESIGNED PMG/RMF
APPROVED DATE
APPROVED DATE
SHEET 1 OF 1 SHEETS
SUPERSEDES
D-32128
REV A

REV	DATE	
A	10/25/02	RELEASED FOR REVIEW & COMMENTS

JOB NO. 4379 01



ASH STACKING AREA DIKE - COORDINATES

POINT NO.	NORTH	EAST
1	607,113	1,845,152
2	606,545	1,845,152
3	606,391	1,845,366
4	606,765	1,845,826

RAMP/BOLSTER - COORDINATES

POINT NO.	NORTH	EAST
R1	606,877	1,845,351
R2	606,806	1,845,771
R3	606,857	1,845,884

PLAN A

SITE PREPARATION STAGE

ASH POND SITE PREPARATION, CELL DIKE REMEDIAL CONSTRUCTION AND CONSTRUCTION OF AN ASH STACKING AREA

STAGES OF CONSTRUCTION FOR SHORT TERM ASH MANAGEMENT PLAN

THE SEQUENCE OF CONSTRUCTION FOR THE SHORT TERM ASH MANAGEMENT PLAN OF THE ASH POND CONSISTS OF THREE STAGES OF CONSTRUCTION. THE SITE PREPARATION STAGE PREPARES THE SITE FOR EXCAVATION AND DISPOSAL OF ASH FROM CELL 1. THIS STAGE CONSISTS OF CELL DIKE REMEDIAL CONSTRUCTION AND CONSTRUCTION OF AN ASH STACKING AREA. THE FIRST AND SECOND EXCAVATION STAGES CONSIST OF THE TWO EXCAVATION OPERATIONS IN CELL 1 – AREA 1A AND AREA 1B OF THE ASH POND.

SITE PREPARATION STAGE: - (ASH POND SITE PREPARATION, CELL DIKE REMEDIAL CONSTRUCTION, AND CONSTRUCTION OF AN ASH STACKING AREA):

THIS INITIAL STAGE CONSIST OF REMEDIAL GRADING OF THE EXISTING MAIN SEPARATOR DIKE BETWEEN CELL 2 AND CELL 3 OF THE ASH POND, AND THE CONSTRUCTION OF AN ASH STACKING AREA IN CELL 3.

1) RAISE THE DESIGNATED LOW AREAS OF THE TOP OF THE MAIN DIKE BETWEEN CELL 2 AND CELL 3 TO EL 125 WITH SELECTED AND APPROVED EARTHEN MATERIAL.
2) EXCAVATE ASH FROM THE DESIGNATED AREAS IN CELL 1, TO BE USED AS MATERIAL TO CONSTRUCT AN ACCESS HAUL RAMP INTO CELL 3, AND TO CONSTRUCT AN ASH STORAGE CONTAINMENT DIKE IN CELL 3. MATERIAL ABOVE THE WATER LINE FROM AREA 1A AND AREA 1B SHOULD BE EXCAVATED FIRST FOR USE AS A CONSTRUCTION MATERIAL, IF THE MATERIAL IS DRY ENOUGH AND APPROVED FOR USE, AND IF CONDITIONS WARRANT.
3) CONSTRUCT A BOLSTER (FROM ASH MATERIAL FROM CELL 1) ALONG THE TOE OF THE DIKE BETWEEN CELL 1 AND CELL 3. INCORPORATE AN ASH/EARTH RAMP WITHIN THE BOLSTER TO FACILITATE ACCESS INTO THE ASH STACKING AREA.
4) CONSTRUCT AN ASH STORAGE CONTAINMENT DIKE IN CELL 3. THE DIKE WILL BECOME A PART OF THE ASH STACKING AREA AND WILL INCREASE IN HEIGHT AS ASH IS DISPOSED.

FIRST STAGE EXCAVATION OF CELL 1 – AREA 1A:

THIS STAGE IS THE FIRST STAGE EXCAVATION OF CELL 1 - AREA 1A OF THE ASH POND.

1) EXCAVATE A CHANNEL TO BREACH THE CENTER ASH PILE FINGER DIKE AND CONSTRUCT TWO TEMPORARY ASH DIVERSION DIKES A AND B IN ORDER TO RE-ROUTE FLOW AWAY FROM INITIAL AREA TO BE EXCAVATED.
2) INSTALL A TEMPORARY DISCHARGE PIPE ON THE 1B SIDE OF CELL 1, THROUGH THE SEPARATOR DIKE BETWEEN CELL 1 AND 2 AT THE CURRENT INVERT ELEVATION TO SUSTAIN THE EXISTING POOL LEVEL OF THE CELL 1 AT EL 120.5. TEMPORARILY CLOSE/PLUG EXISTING PIPE 1A THAT EXTENDS FROM CELL 1 TO CELL 2.
3) EXCAVATE CELL 1 - AREA 1A TO THE GRADES AND DIMENSIONS AS SHOWN ON THE DESIGN DRAWINGS. CONSTRUCT FINGER DIKES TO FACILITATE EXCAVATION AS NEEDED.
4) INSTALL TWO NEW DISCHARGE PIPES (PIPE 2A AND PIPE 2B) ON THE 1A SIDE OF CELL 1 FOR ROUTING FLOW DURING THE SECOND STAGE EXCAVATION WORK IN CELL 1 - AREA 1B. PIPE 2A WILL BE TEMPORARY AND INSTALLED TO SUSTAIN THE EXISTING POOL AT EL 120.5 DURING EXCAVATION OF CELL 1B. AFTER WHICH, PIPE 2A WILL BE GROUTED CLOSED. PIPE 2B WILL BE PERMANENT AND INSTALLED TO INCREASE NORMAL POOL LEVEL 2 FEET IN CELL 1 TO EL 122.5 AFTER THE SHORT TERM EXCAVATION WORK IS COMPLETED.

SECOND STAGE EXCAVATION OF CELL 1 – AREA 1B:

THIS STAGE IS THE SECOND STAGE EXCAVATION OF CELL 1 - AREA 1B OF THE ASH POND.

1) REMOVE DIVERSION DIKE A AND CLOSE/FILL THE CHANNEL IN THE CENTER ASH PILE FINGER DIKE OF CELL 1, IN ORDER TO RE-ROUTE AND DIRECT FLOW THROUGH AREA 1A AND THROUGH THE NEW PERMANENT DISCHARGE PIPE, PIPE 2B. DIVERSION DIKE MATERIAL MAY BE USED TO CLOSE THE CHANNEL.
2) EXCAVATE CELL 1 - AREA 1B TO THE GRADES AND DIMENSIONS AS SHOWN ON THE DESIGN DRAWINGS. CONSTRUCT FINGER DIKES TO FACILITATE EXCAVATION AS NEEDED.
3) GROUT THE TEMPORARY DISCHARGE PIPE INSTALLED DURING FIRST STAGE EXCAVATION WORK OF CELL 1 - AREA 1A.
4) INSTALL A NEW DISCHARGE PIPE, PIPE 1B, NEAR THE LOCATION OF PIPE 1A IN THE DIKE BETWEEN CELL 1 AND CELL 2. PIPE 1B WILL BE USED TO SUSTAIN NORMAL POOL LEVEL IN CELL 1 AT EL 122.5 AFTER THE SHORT TERM EXCAVATION WORK IS COMPLETED. AFTER WHICH, PIPE 1A WILL BE GROUTED CLOSED. PIPES 1B AND 2B WILL HAVE A CAP/PLUG FEATURE TO FACILITATE THE ROUTING OF FLOW FROM CELL 1 INTO CELL 2 THROUGH ONE PIPE AT A TIME, AND FOR FUTURE ROUTING AND EXCAVATION WORK.
5) REMOVE DIVERSION DIKE B AND DISPOSE OF MATERIAL IN STACKING AREA.

ANY DEVIATION FROM THE ABOVE STAGES OF CONSTRUCTION MUST BE APPROVED BY THE "PROJECT CONSTRUCTION MANAGER" OR "PCM".

NOTES:

1. WHILE CONSTRUCTING THE BOLSTER/RAMP, THE EXISTING SEPARATOR DIKE BETWEEN CELL 1 AND CELL 3 SHALL NOT BE DAMAGED. PARTICULARLY, NO CUTS SHALL BE MADE INTO DOWNSTREAM SLOPE OF THE DIKE.
2. PROPER SEDIMENT AND EROSION CONTROL MEASURES INCLUDING SILT FENCING, HAY BALES, AND OTHER SEDIMENT CONTROL MEASURES SHALL BE INSTALLED TO INHIBIT THE MIGRATION OF SUSPENDED PARTICLES TO THE POOL AREA OF CELL 3 AND INTO CELL 4, OR INTO THE PLANT'S DISCHARGE CHANNEL. THESE MEASURES SHALL BE INSTALLED AND MAINTAINED AT AREAS OF NEWLY PLACE DIKE MATERIAL AND AT AREAS WHERE ANY ASH FILL MATERIAL IS PLACED IN CELL3. AT NO TIMES SHALL TSS COUNTS EXCEED ALLOWABLE LEVELS AT THE PERMITTED DISCHARGED POINT FROM CELL 4 (SEE PROJECT CONSTRUCTION MANAGER).
3. ADDITIONAL NOTES COORESPONDING TO SITE PREPARATION WORK CONTINUES ON DRAWING D-32128.

REFERENCES:

D-32127 SHORT TERM ASH MANAGEMENT PLAN
ASH POND – SITE PLAN - STAGE 2 & 3

D-32128 SHORT TERM ASH MANAGEMENT PLAN
ASH POND – SECTIONS AND DETAILS

TECHNICAL SPECIFICATIONS
ASH MANAGEMENT PLAN
SHORT TERM ASH MANAGEMENT PLAN

CAD D32126 | AutoCAD | JAB –02

Southern Company Services, Inc.
for
Gulf Power Company

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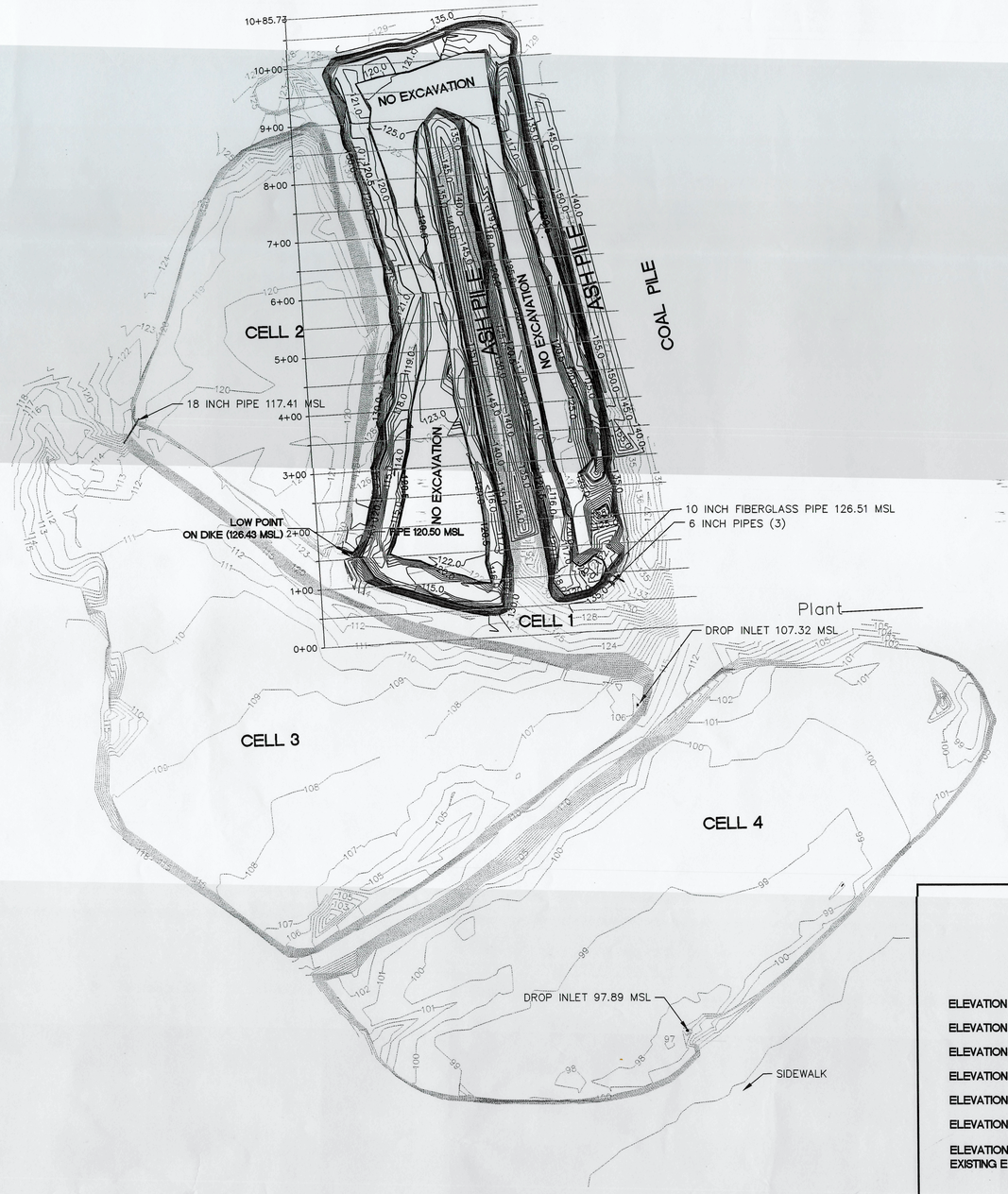
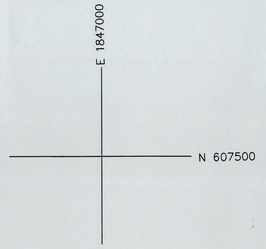
REV	DATE	DESCRIPTION
A	10/25/02	RELEASED FOR REVIEW & COMMENTS

JOB NO. 4379 01

JOB Scholz Steam Plant
DETAIL Short Term Ash Management Plan
Ash Pond – Site Plan – Stage 1
DRAWN JAB/JRF CHECKED FDB DESIGNED PMG/RMF
APPROVED ____ DATE ____
APPROVED ____ DATE ____
SCALE 1"=100' B/M ____
SHEET 1 OF 1 SHEETS
SUPERSEDES
D-32126 REV A

PLANT SCHOLZ ASH POND





GRID COORDINATES NAD 83
FLORIDA STATE PLAN NORTH ZONE

100 0 100 200 300

Scale 1" = 100'

AVAILABLE STOREAGE VOLUME Site Volume Table: Unadjusted

Site	Stratum	Surf1	Surf2	Fill cu.yds
CELL1	cell1 exit pipe vol. 0302	cell1 0302	cell1 exit pipe 120.50	9759

VOLUME REMOVED Site Volume Table: Unadjusted

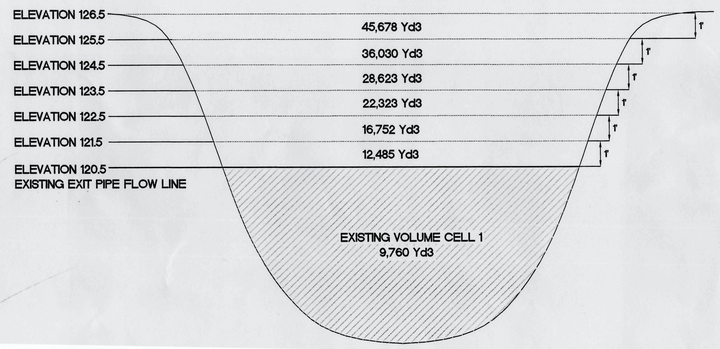
Site	Stratum	Surf1	Surf2	Cut cu.yds	Fill cu.yds
CELL1-0302	cell1-volume0302	final_11-01-r1	cell1 0302	36818	44835

VOLUME OF MATERIAL REMOVED FROM CELL 1 MARCH 2002 SURVEY = 44,835 CU. YDS.

EXISTING STORAGE VOLUME **Site Volume Table: Unadjusted**

	Target Elevation Exit Pipe Flow Line	Fill cu.yds Remaining Volume To Target Elevation	Method
Site: CELL1	120.50	9,760	LDD Composite
Site: CELL2	117.41	853	LDD Composite
Site: CELL3	107.32	3,595	LDD Composite
Site: CELL4	97.89	68	LDD Composite
Site: TOTALS	NA.	14,276	LDD Composite

CUMULATIVE STAGE STORAGE ABOVE EXISTING EXIT PIPE ELEVATION



LEGEND

MAJOR CONTOUR / MINOR CONTOUR	CONTOURS OF EXISTING ASH SURFACE AFTER CLEAN OUT
	CONTOURS OF EXISTING ASH SURFACE BEFORE CLEAN OUT
120.5	CONTOURS OF EXISTING EXIT PIPE ELEVATION

NOTES:

1) FIELD DATA COLLECTED 11/7/01, 02/06/02, 03/27/02
2) CONTOURS AND VOLUMES PRODUCED FROM DIGITAL TERRAIN MODEL FROM FIELD DATA.
3) CONTOUR INTERVAL IS 1 FOOT.
4) ALL ELEVATIONS REFER TO MEAN SEA ACCORDING TO NGVD 29.
5) TARGET ELEVATION FOR REMAINING VOLUME CALC. BASED ON ELEVATION OF EXIT PIPE FLOW LINE.
6) DRAWING IS ACCURATE ONLY AT ORIGINAL SCALE

TOPOGRAPHIC SURVEY

PREPARED BY: SOUTHERN COMPANY SERVICES
SURVEYING AND MAPPING DEPARTMENT
APCO. GEN. SERVICES COMPLEX BLD. #7

GULF POWER COMPANY
500 BAYFRONT PARKWAY
PENSACOLA, FLORIDA

JOB PLANT SCHOLZ
DETAIL ASH POND TOPO/ REMOVED VOLUME CALCULATION BASED ON MARCH 2002 SURVEY
SCALE AS SHOWN B/M
SHEET 1 OF 3
SUPERSEDES
2674SCH

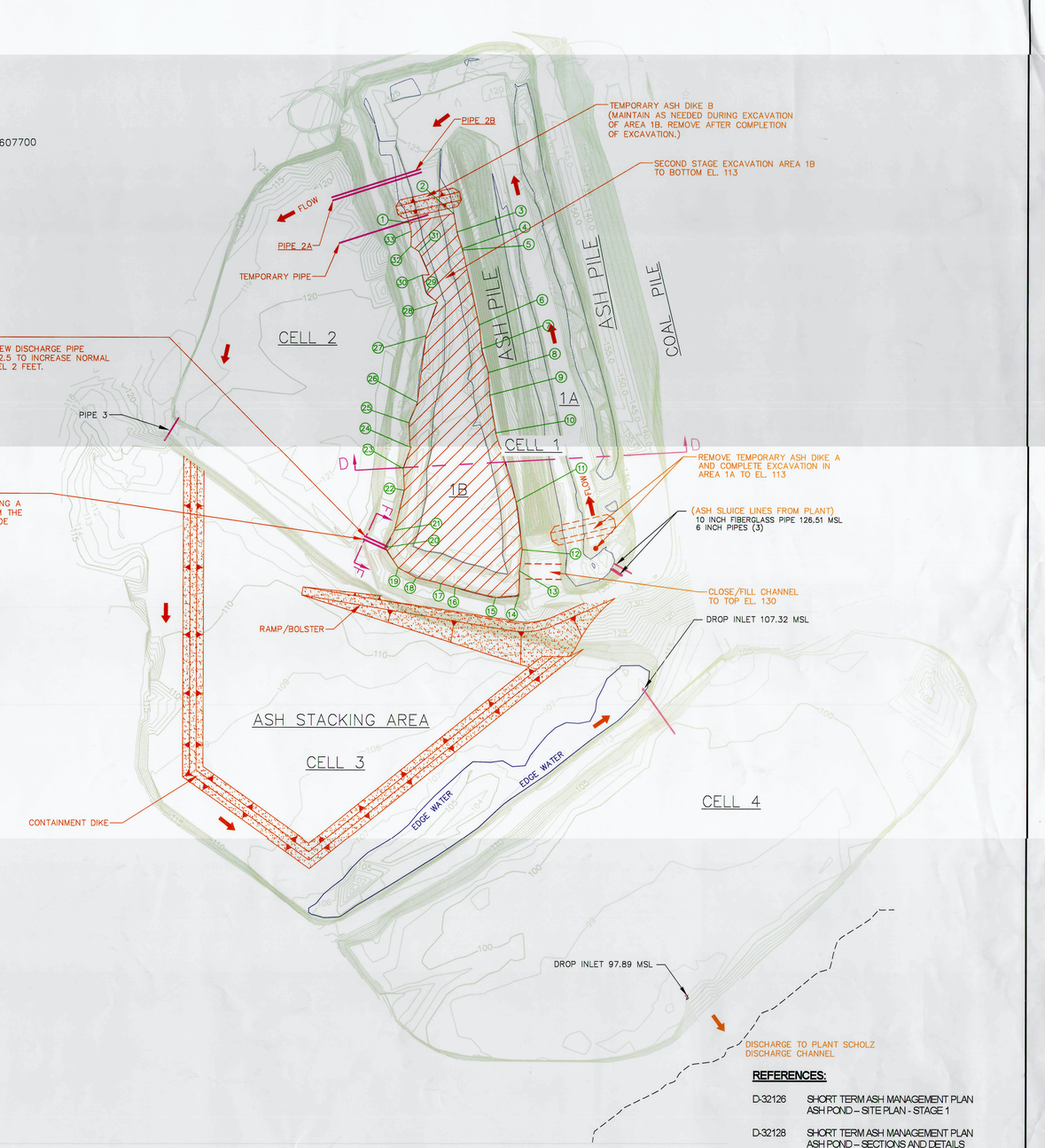
DRAWN ENP CHECKED DATE
DATE 04/02/08
DATE

Drawing name: T:\Survey II\Gulf\Sholz SP\Ash Pond\2674SCH\dwg\2674SCH_ASHPND-CELL1.dwg Apr 15, 2002 - 5:4[illegible]pm



PLAN B

FIRST STAGE EXCAVATION OF CELL 1 – AREA 1A



PLAN C

SECOND STAGE EXCAVATION OF CELL 1 – AREA 1B

REFERENCES:

D-32126 SHORT TERM ASH MANAGEMENT PLAN
ASH POND – SITE PLAN - STAGE 1

D-32128 SHORT TERM ASH MANAGEMENT PLAN
ASH POND – SECTIONS AND DETAILS

TECHNICAL SPECIFICATIONS
ASH MANAGEMENT PLAN
SHORT TERM ASH MANAGEMENT PLAN

NOTES

1. FOR SEQUENCE OF CONSTRUCTION NOTES SEE DWG. D-32126.
2. FOR FIRST AND SECOND STAGE EXCAVATION COORDINATES SEE DWG. D-32128.

CAD D32127 | AutoCAD | JAB –02

for Southern Company Services, Inc.

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REV A	DATE: 10/25/02
RELEASED FOR REVIEW & COMMENTS	
JOB NO. 4379 01	

DRAWN JAB/JRF CHECKED FDB DESIGNED PMG/RMF

APPROVED _____ DATE _____

APPROVED _____ DATE _____

Gulf Power Company

JOB Scholz Steam Plant

DETAIL Short Term Ash Management Plan

Ash Pond – Site Plan – Stage 2 & 3

SCALE 1"=100' B/W _____

SHEET 1 OF 1 SHEETS

SUPERSEDES

D-32127

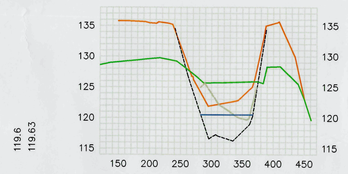
REV A

PLANT SCHOLZ ASH POND

8+50



10+50



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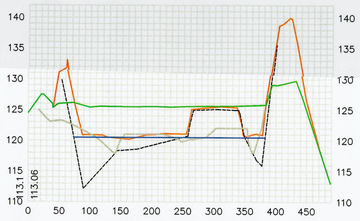

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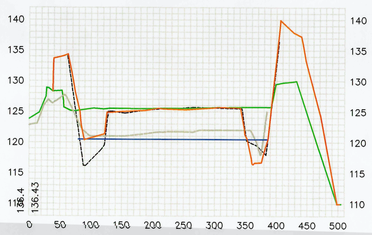

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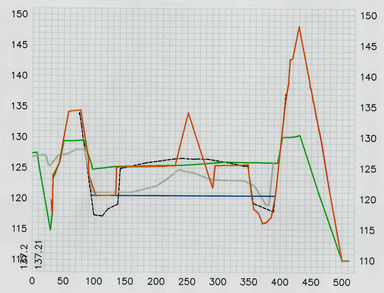


LEGEND

- EXISTING ASH SURFACE MARCH 2002 SURVEY
- EXISTING ASH SURFACE FEBRUARY 2002 SURVEY
- EXISTING ASH SURFACE NOVEMBER 2001 SURVEY
- EXISTING ASH SURFACE 1997 SURVEY
- EXIT PIPE AT ELEVATION = 120.5 msl

PREPARED BY: SOUTHERN COMPANY SERVICES
SURVEYING AND MAPPING DEPARTMENT
APCO. GEN. SERVICES COMPLEX BLD. #7

SCALE: 1" = 10' VERTICAL
1" = 100' HORIZONTAL

GULF POWER COMPANY
500 BAYFRONT PARKWAY
PENSACOLA, FLORIDA

JOB PLANT SCHOLZ
DETAIL ASH POND X-SECTIONS/ REMOVED VOLUME CALC.

DRAWN ENP CHECKED ____ DATE ____
DATE 04/08/02
DATE ____

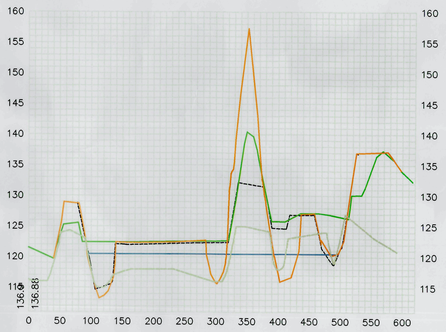
SCALE AS SHOWN B/M ____
SHEET 3 OF 3
SUPERSEDES

2674SCH

Drawing name: T:\Survey II\Gulf\Sholz SP\Ash Pond\2674SCH\dwg\2674SCH_ASHPND-CELL1.dwg Apr 15, 2002 - 4:33pm

PLANT SCHOLZ ASH POND

2+00



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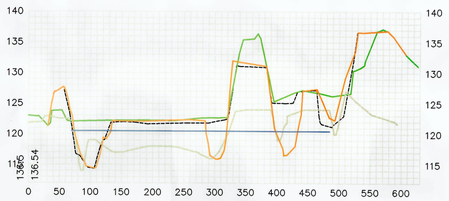

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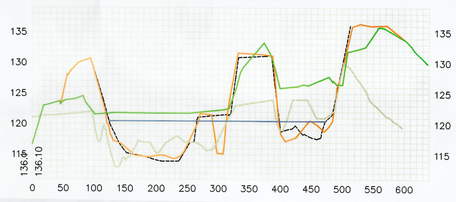

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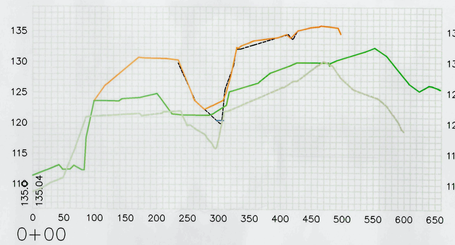

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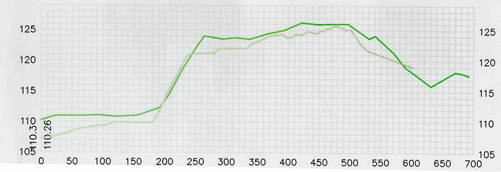

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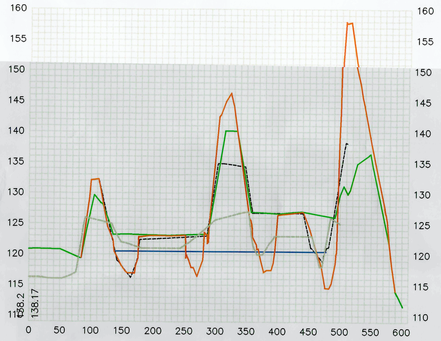

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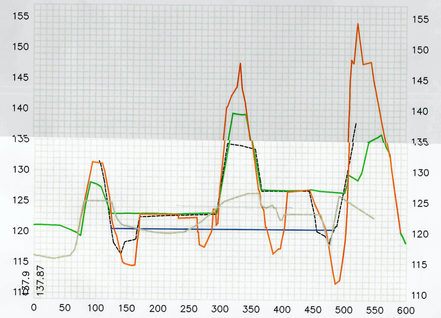

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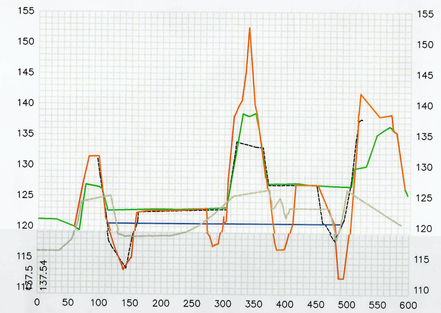

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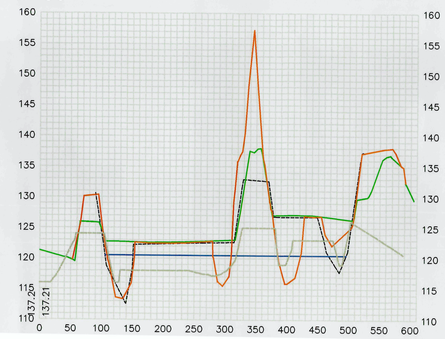

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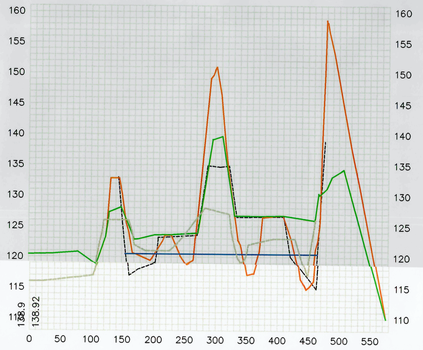

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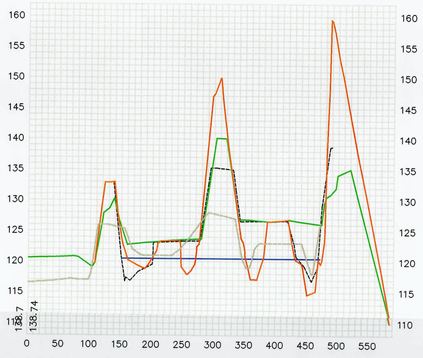

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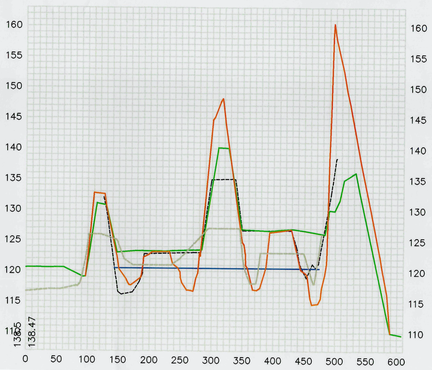

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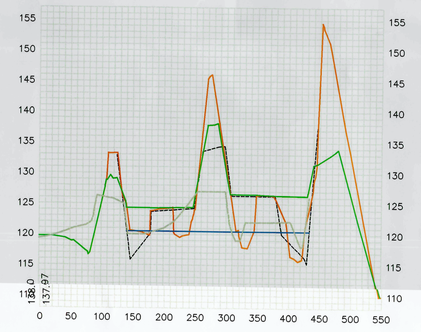

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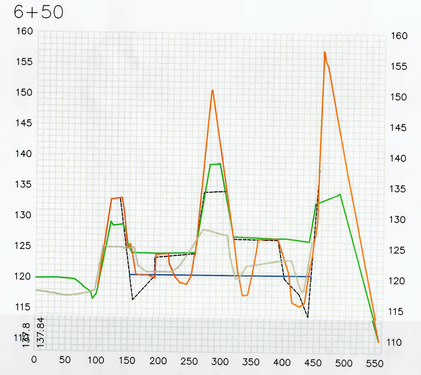

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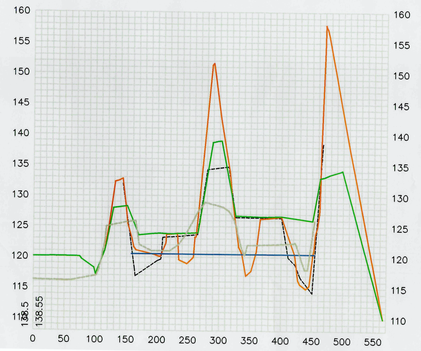


LEGEND

- EXISTING ASH SURFACE MARCH 2002 SURVEY
- EXISTING ASH SURFACE FEBRUARY 2002 SURVEY
- EXISTING ASH SURFACE NOVEMBER 2001 SURVEY
- EXISTING ASH SURFACE 1997 SURVEY
- EXIT PIPE AT ELEVATION = 120.5 msl

PREPARED BY: SOUTHERN COMPANY SERVICES
SURVEYING AND MAPPING DEPARTMENT
APCO. GEN. SERVICES COMPLEX BLD. #7

SCALE: 1" = 10' VERTICAL
1" = 100' HORIZONTAL

GULF POWER COMPANY
500 BAYFRONT PARKWAY
PENSACOLA, FLORIDA

JOB PLANT SCHOLZ
DETAIL ASH POND X-SECTIONS/ REMOVED VOLUME CALC.

DRAWN ENP CHECKED _____ DATE _____
_____ DATE 04/08/02
_____ DATE _____

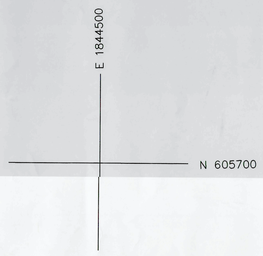
SCALE AS SHOWN B/M _____
SHEET 2 OF 3
SUPERSEDES

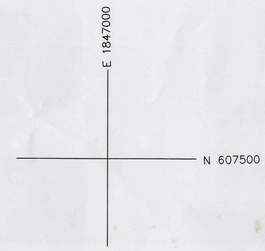
2674SCH

Drawing name: T:\Survey II\Gulf\Sholz SP\Ash Pond\2674SCH\dwg\2674SCH_ASHPND-CELL1.dwg Apr 15, 2002 - 4:33pm

PLANT SCHOLZ ASH POND







GRID COORDINATES NAD 83
FLORIDA STATE PLAN NORTH ZONE

100 0 100 200 300

Scale 1" = 100'

AVAILABLE STOREAGE VOLUME Site Volume Table: Unadjusted

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VOLUME REMOVED *Site Volume Table: Unadjusted*

Site	Stratum	Surf1	Surf2	Cut cu.yds	Fill cu.yds
CELL1-0302	cell1-volume0302	final_11-01-r1	cell1 0302	36818	44835

VOLUME OF MATERIAL REMOVED FROM CELL 1 MARCH 2002 SURVEY = 44,835 CU. YDS.

EXISTING STORAGE VOLUME **Site Volume Table: Unadjusted**

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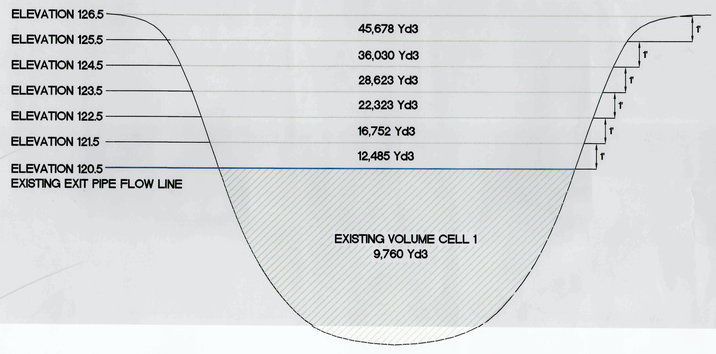
Site: CELL4	97.89	68	LDD Composite
Site: TOTALS	NA.	14,276	LDD Composite

CUMULATIVE STAGE STORAGE ABOVE EXISTING EXIT PIPE ELEVATION



LEGEND

MAJOR CONTOUR / MINOR CONTOUR	CONTOURS OF EXISTING ASH SURFACE AFTER CLEAN OUT
	CONTOURS OF EXISTING ASH SURFACE BEFORE CLEAN OUT
120.5	CONTOURS OF EXISTING EXIT PIPE ELEVATION

NOTES:

1) FIELD DATA COLLECTED 11/7/01, 02/06/02, 03/27/02
2) CONTOURS AND VOLUMES PRODUCED FROM DIGITAL TERRAIN MODEL FROM FIELD DATA.
3) CONTOUR INTERVAL IS 1 FOOT.
4) ALL ELEVATIONS REFER TO MEAN SEA ACCORDING TO NGVD 29.
5) TARGET ELEVATION FOR REMAINING VOLUME CALC. BASED ON ELEVATION OF EXIT PIPE FLOW LINE.
6) DRAWING IS ACCURATE ONLY AT ORIGINAL SCALE

TOPOGRAPHIC SURVEY

PREPARED BY: SOUTHERN COMPANY SERVICES
SURVEYING AND MAPPING DEPARTMENT
APCO. GEN. SERVICES COMPLEX BLDG. #7

GULF POWER COMPANY
500 BAYFRONT PARKWAY
PENSACOLA, FLORIDA

JOB PLANT SCHOLZ
DETAIL ASH POND TOPO/ REMOVED VOLUME CALCULATION BASED ON MARCH 2002 SURVEY

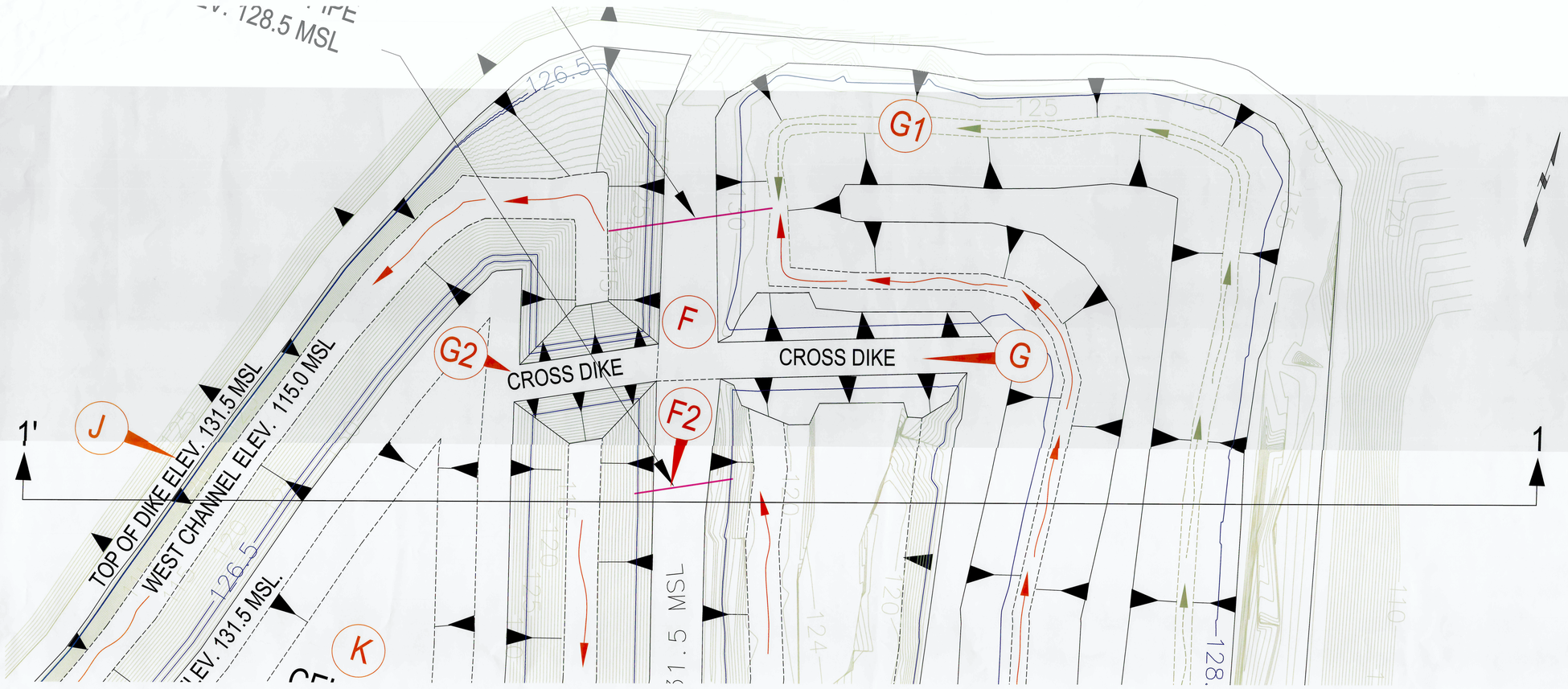
DRAWN ENP CHECKED _____ DATE _____
_____ DATE 04/02/08
_____ DATE _____

SCALE AS SHOWN B/M _____
SHEET 1 OF 3
SUPERSEDES

2674SCH

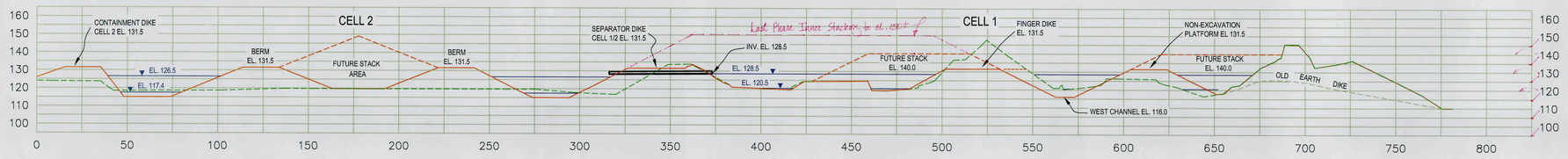
Drawing name: T:\Survey II\Gulf\Sholz SP\Ash Pond\2674SCH\dwg\2674SCH_ASHPND-CELL1.dwg Apr 15, 2002 - 5:05pm

PLANT SCHOLZ ASH POND



SCALE: 1" = 30'

SECTION 1



LEGEND

- EXISTING ASH SURFACE MARCH 2002 SURVEY
- FINAL GRADE
- FUTURE ASH STACK

SCALE: 1" = 30' VERTICAL
1" = 30' HORIZONTAL

PREPARED BY: SOUTHERN COMPANY SERVICES
SURVEYING AND MAPPING DEPARTMENT
APCO. GEN. SERVICES COMPLEX BLD. #7

GULF POWER COMPANY
500 BAYFRONT PARKWAY
PENSACOLA, FLORIDA

JOB PLANT SCHOLZ
DETAIL ASH POND X-SECTION

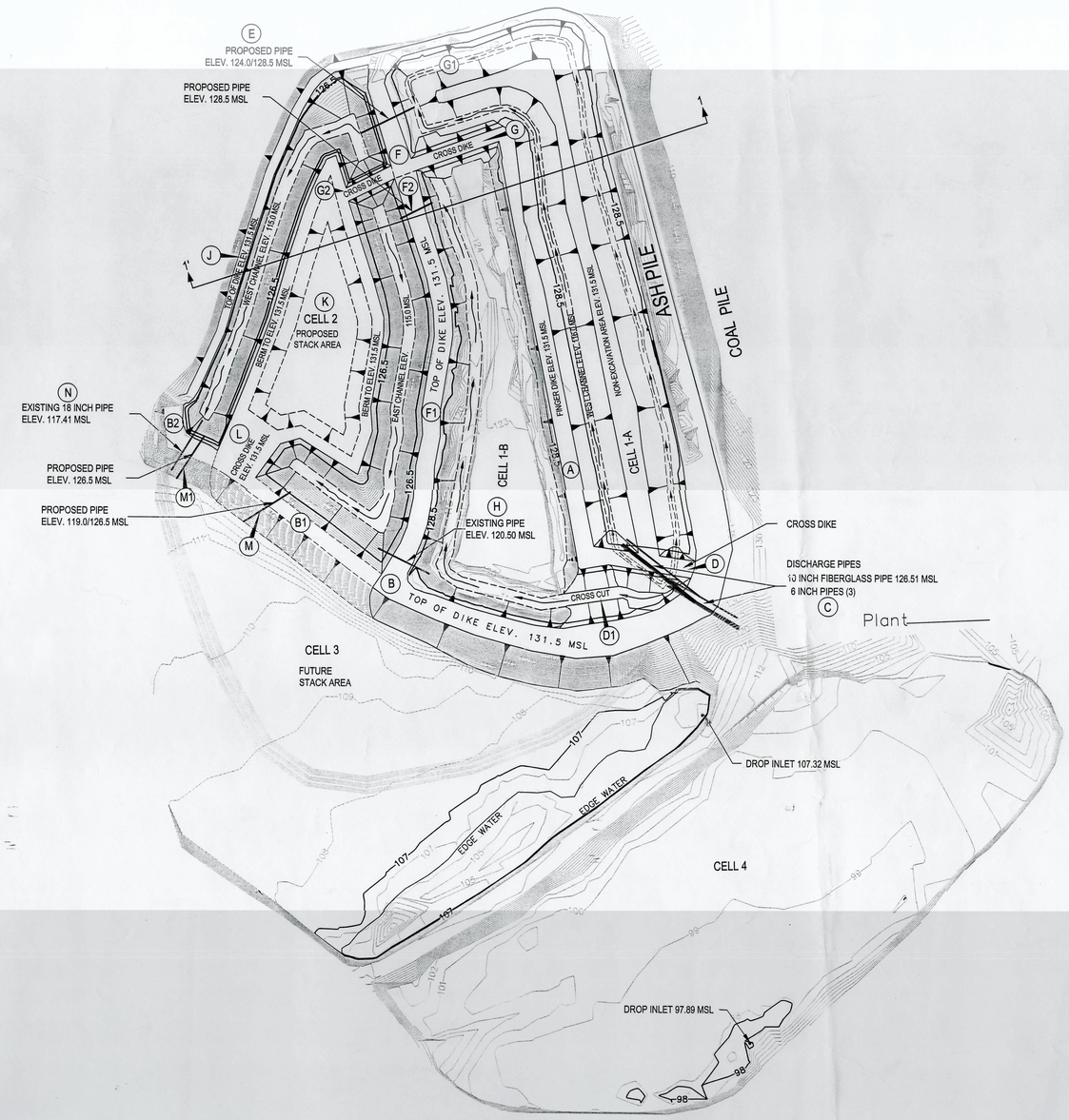
DRAWN ENP CHECKED _____ DATE _____
_____ DATE 07/05/02
_____ DATE _____

SCALE AS SHOWN B/M _____
SHEET 2 OF 2
SUPERSEDES

2705SCH

Drawing name: S:\Workgroups\APC General Service Complex\Civil Tech Support\Survey II\Gulf\Sholz SP\Ash Pond\2674SCH\dwg\2705CH_ASHPND-PLAN1R5.dwg Jul 09, 2002 - 10:28am

PLANT SCHOLZ ASH POND



PROPOSED SEQUENCE OF CONSTRUCTION

The initial phase of work is to concentrate on providing volume in Cells **1** and **2** to meet your 2003-2005 demands. Center dikes allow access to pull materials and build platforms, and continuously create below-pipe-invert-volume. Switching flow directions allows backhoe/dragline work, stacking, and pipe replacement while maintaing flow and minimizing increased suspended solids. Future phases would call for raising the lower dikes and dry-stacking in Cell **3**.

Phase 1:
The general scheme of Phase 1 is to widen and raise the dikes around Cell **1**; construct cross dikes and cross cut to create two impoundment areas within Cell **1**. This will allow alternate excavation and stacking in the non-flowing channels, creating the opportunity for more stack volume by working adjacent to two exit channels and pipes all the way to elevation 128.5 msl. Individual steps are:

1) Remove dry ash at finger dike **(A)** to elevation 131.5 msl. (13,000 yd3). Use material to raise and widen dike **(B)** between Cell **1** and Cell **3**, extending to the separator dike between Cell **1** and Cell **2** (12,000 yd3) at about point **(B)**.

2) Excavate cross-channel up around point **(G1)** to prepare for flow directly to temporary pipe **(E)**, but still allowing flow to go around the bend and get down to the area at pipe **(H)**.

3) Start cross-dike at **(G)**. Install exit pipe at **(E)** to elevation 124 msl., with capability of placing future header on same pipe with entrance set at elevation 128.5 msl., and bring up the separator dike at area **(F)** to elevation 131.5 msl.

4) Move onto non-excavation area at mid-cell **1-A**. Excavate and deepen channel on the west side of the non-excavate platform (between platform and old finger dike). Cast material up to raise and more completely develop the platform to about elevation 127 msl. initially, then eventually tie into east ash pile.

5) Work way down to south end of non-excavation platform. Close off the east side channel. Divert flow into the west side channel of Cell **1-A**.
Note: We can now at any time continue excavating from the west channel and cast back to the old east channel to form a final wide platform for more stacking.

6) Close off the finger dike at **(G)**. Allow flow into north end of Cell **2**. Water will back up into Cell **1-A** to elevation 124 msl.

7) Build up separator dike between Cells **1-B** and **2** to elevation 131.5 msl. along **(F1)** location, and install pipe at **(F2)** to elevation 128.5 msl.

8) Extend alternate slurry delivery piping up to pond Cell **1-A (C)**. This could be done by installing a "Y" so that slurry could be diverted into Cell **1-A** or **1-B**. Discharge must be raised above elevation 128.5 msl.

9) Build cross dike **(D)** (3,000 yd3) and excavate cross cut **(D1)** (3,000 yd3) while continuing to discharge to Cell **2** through pipe at **(E)**.

10) Pull pipe at **(H)**. Crown dike to elevation 131.5 msl.

11) Open up (cut finger dike) channel to Cell **1-B** at location **(D1)**. Now this pool can fill to elevation 128.5 msl. See Section 1.

12) Construct cross dike **(G2)**, (2,900 yd3) to divert flow along west channel of Cell **2** discharging at existing exit pipe **(N)** elevation 117.41 msl.

13) Install header at **(E)** to raise invert to elevation 128.5 msl. from elevation 124.0 msl.

NOTE:
a) The above modifications should increase available storage volume in Cell **1** to 70,000 yd3. (31,000 in pond Cell **1-A** & 39,000 in pond Cell **1-B**).
b) Additional fill material for raising dike between Cells **1-A/1-B** and Cell **3** can be pulled from ash pile adjacent to coal stockpile area.

Phase 2:
The general scheme for Phase 2 is to construct a central high area running generally north/south in Cell **2** creating separate east and west channels. Create more available volume by installing two discharge pipes at elevation 126.5 msl. This "switching" from one channel to the other allows new pipe installations and ash excavation without dispersing suspended solids in the ash flow. Individual steps are:

1) Excavate channels along east and west side of Cell **2** as deep and wide as equipment constraints will allow. Some of this will have been done in building up the separator dike between cells **1B** and **2**.

2) Use excavated material and clayey sand fill to raise and widen dike **(B1)** (12,000 yd3) between Cell **2** and Cell **3**, construct cross dike **(L)** (2,000 yd3) and raise berm along edge of center dike **(K)** (26,000 yd3) in Cell **2** to elevation 131.5 msl.

3) Install exit pipe **(M)** in east channel of Cell **2** to elevation 119.0 msl., with capability of placing header on same pipe with entrance set at elevation 126.5 msl.

4) Raise perimeter dike **(J)** (5,000 yd3) with material excavated out of west channel along west side of Cell **2** to elevation 131.5 msl.

5) While diverting flow down east channel of Cell 2 and out exit pipe at **(M)**, pull existing pipe at **(N)**, raise and widen dike in that area **(B2)** (4,000 yd3) and install new exit pipe **(M1)** to elevation 126.5 msl.

NOTE:
a) The above modifications should increase available storage volume in Cell **2** to a minimum of 24,000 yd3. (12,000 yd3 in east channel & 12,000 yd3 in west channel).
b) This volume based on 20 feet wide channel bottom at elevation 115.0 msl with 2:1 side slopes to discharge elevation 126.5 msl.
c) There will be an additional 13,000 yd3 of volume available to dry-stack ash (up to elevation 131.5 msl) inside the bermed area in Cell **2 (K)**.

Future Phases

Refer to report which accompanies this drawing for future phases and approximate available volumes. Major phases would involve further dry stacking in Cell **3** and fill-in stacking over Cells **1-B** and **2**, leaving flow in the west channels of Cells **1-A** and **2** as the long-route slurry water path to Cell **3**.

GRID COORDINATES NAD 83
FLORIDA STATE PLAN NORTH ZONE

100 0 100 200 300
Scale 1" = 100'

LEGEND

- CONTOURS OF EXISTING ASH SURFACE
- EXISTING PIPE
- PROPOSED PIPE
- TEMPORARY FLOW ROUTE
- FINAL FLOW ROUTE
- 128.5 — CONTOURS OF PROPOSED EXIT PIPE ELEVATION

NOTES:

1) FIELD DATA COLLECTED 11/7/01, 02/06/02, 03/27/02
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3) CONTOUR INTERVAL IS 1 FOOT.
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5) DRAWING IS ACCURATE ONLY AT ORIGINAL SCALE

TOPOGRAPHIC SURVEY

PREPARED BY: SOUTHERN COMPANY SERVICES
SURVEYING AND MAPPING DEPARTMENT
APCO. GEN. SERVICES COMPLEX BLD. #7

GULF POWER COMPANY
500 BAYFRONT PARKWAY
PENSACOLA, FLORIDA

JOB PLANT SCHOLZ
DETAIL ASH POND PLAN
SCALE AS SHOWN B/M
SHEET 1 OF 2
SUPERSEDES
2705SCH

DRAWN ENP CHECKED DATE
DATE 06/25/02
DATE

Drawing name: C:\TEMP\2705CH_ASHPND-PLAN1R5.dwg Jul 16, 2002 - 2:20pm