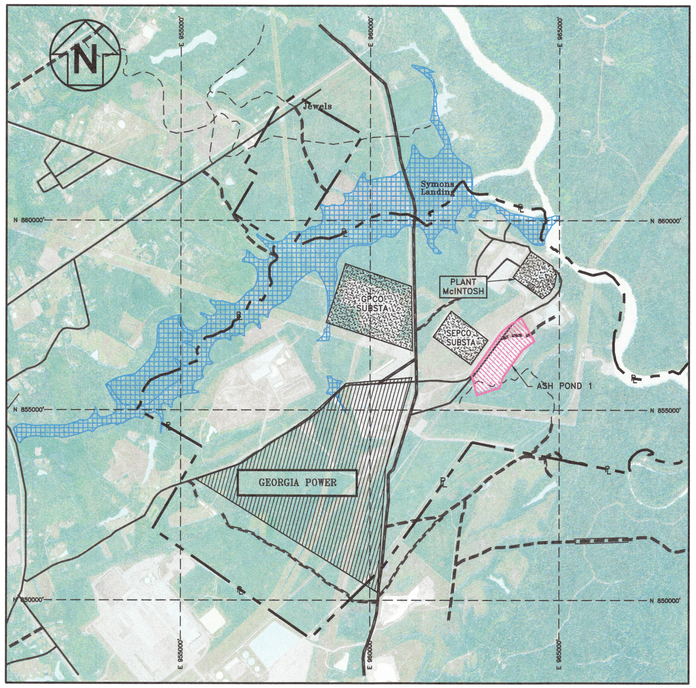
CLOSURE DRAWINGS
GEORGIA POWER COMPANY
PLANT MCINTOSH ASH POND 1 (AP-1)
EXISTING COAL COMBUSTION RESIDUALS (CCR) SURFACE IMPOUNDMENT
EFFINGHAM, GEORGIA
NOVEMBER 2018

OWNER/OPERATOR

GEORGIA POWER COMPANY
241 RALPH MCGILL BLVD.
ATLANTA, GEORGIA 30308

RESPONSIBLE OFFICIAL

GENERAL MANAGER-ENVIRONMENTAL AFFAIRS
GEORGIA POWER COMPANY
241 RALPH MCGILL BLVD.
ATLANTA, GEORGIA 30308
(404) 506-6505
gpcenv@southernco.com



PROJECT SITE LOCATION
NOT TO SCALE

REVISION HISTORY

DATE	SHEETS	REQUESTED BY

APPROVED
STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION
NOV 22 2019
SOLID WASTE MANAGEMENT PROGRAM
Permit Number 05-011(CCR)
Reviewed By

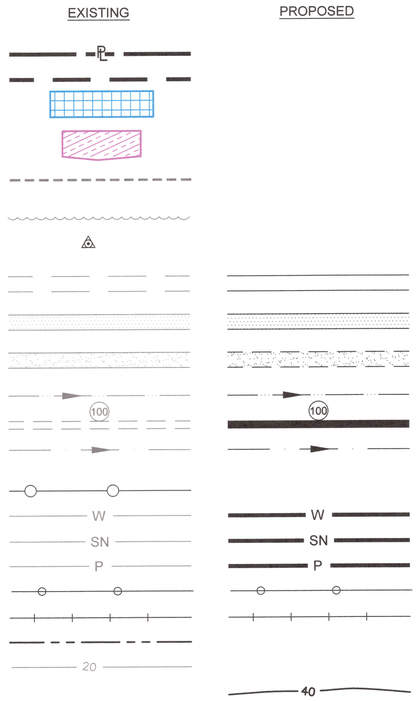
GEI Consultants
1375 PEACHTREE STREET NE, SUITE A15
ATLANTA, GEORGIA 30309
(404) 592-0050

GEORGIA REGISTERED No. PE041928 PROFESSIONAL ENGINEER JOHN MATTHEW TIDARD

Georgia Power

INDEX TO DRAWINGS

LEGEND



	EXISTING	PROPOSED	
PROPERTY LINE (APPROXIMATE)			BUILDING
UNDISTURBED PROPERTY BUFFER	GW2	GW21	GROUNDWATER MONITORING WELL
AREAS INUNDATED BY 100 YEAR FLOOD (APPROXIMATE)	SW7TL	SW2	SURFACE WATER MONITORING POINT
ASH POND 1 BOUNDARY (APPROXIMATE)			OUTLET PROTECTION
STREAM AND WETLAND BUFFER			STONE CHECK DAM
TREELINE			HAY BALE CHECK DAM
BENCHMARK			FLARED END SECTION
UNPAVED ROAD			INLET PROTECTION
PAVED ROAD			CONSTRUCTION EXIT
GRAVEL ROAD			NPDES SAMPLING POINT
DITCH CENTERLINE	LCO	LCO	LEACHATE CLEANOUT
STORM DRAINAGE PIPE	SUMP NO. X	SUMP NO. X	LEACHATE SUMP
STORM WATER DIVERSION BERM	MH	MH	LEACHATE MANHOLE / PUMP STATION
SILT FENCE			LEACHATE VAULT
WATER MAIN	ARV	ARV	AIR RELEASE VALVE
SANITARY SEWER			HEADWALL
POWER LINE			DROP INLET
FENCE			OVERFLOW STRUCTURE
RAILROAD			GATE
SITE BOUNDARY	GW18		BORING/PIEZOMETER
EXIST GROUND CONTOUR	100.00	100.00	SPOT ELEVATION
PROPOSED GRADE CONTOUR			MARKER POST

APPROVED
STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION
NOV 22 2019
SOLID WASTE MANAGEMENT PROGRAM
Permit Number 051-011D(CCR)
Reviewed By

GENERAL NOTES:

1. PROPERTY LINE IS APPROXIMATE.
2. GRID IS STATE PLANE GRID, NAD83, EAST ZONE. (APPROXIMATE).
3. AERIAL WAS DEVELOPED FROM 2017 NAIP USDA-FSA-APFO AERIAL PHOTOGRAPHY.
4. GEORGIA POWER COMPANY PROPERTY LINE DATA OBTAINED FROM ESRI, DIGITALGLOBE, GEOEYE, EARTHSTAR GRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY.
5. SOUTHERN COMPANY SERVICES, EPS-7017-4 SITE SA-1, LAYOUT.
6. SAVANNAH ELECTRIC, P121 MCINTOSH PLANT SITE.
7. FLOOD INSURANCE RATE MAP, EFFINGHAM COUNTY, GEORGIA, PANEL 100 OF 175, MARCH, 1987.
8. SEE SHEET 2 FOR GENERAL NOTES AND REFERENCES.

GEORGIA REGISTERED No. PE041928 PROFESSIONAL ENGINEER JOHN MATHEW TRAST

Georgia Power

INDEX AND LEGEND

CLOSURE DRAWINGS
GEORGIA POWER COMPANY
PLANT MCINTOSH ASH POND 1 (AP-1)
EXISTING COAL COMBUSTION RESIDUALS (CCR)
SURFACE IMPOUNDMENT
EFFINGHAM, GEORGIA

GEI Consultants
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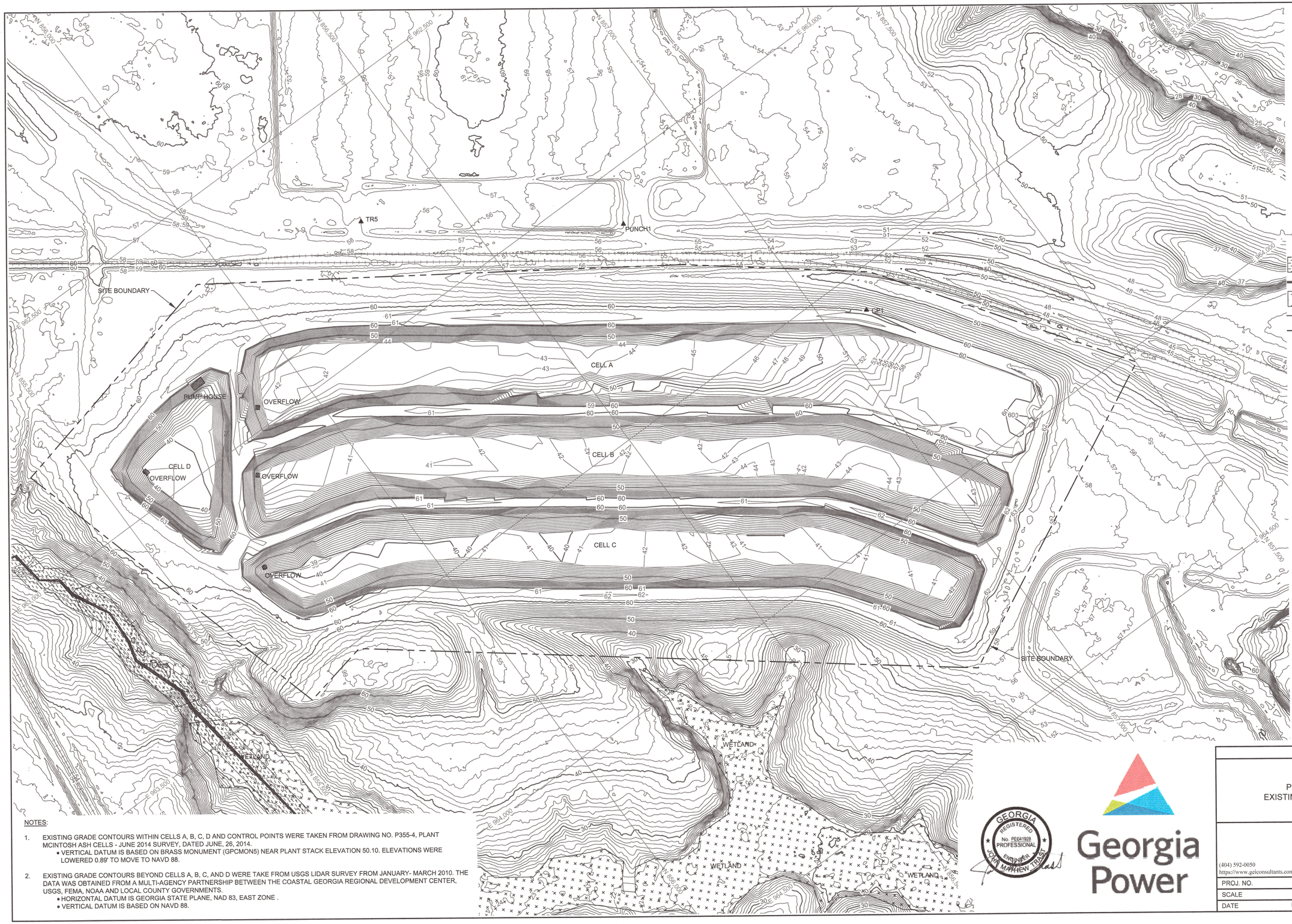
ATLANTA, GEORGIA 30309
(404) 592-0050
https://www.geiconsultants.com/

PROJ. NO.	1702944	DWG. 1	EDIT
SCALE	NONE	SHEET 1 OF 11	
DATE	NOVEMBER 2018		



LEGEND

- RAILROAD (APPROXIMATE)
- TR5 — BENCHMARK/CONTROL MONUMENT
- STREAM BUFFER
- STREAM
- WETLAND
- 50 — EXISTING GROUND SURFACE CONTOUR
- SITE BOUNDARY

APPROVED
STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION
NOV 22 2019
SOLID WASTE MANAGEMENT PROGRAM
Permit Number 051-011D(CCR)
Reviewed By:

Control Monuments			
Easting	Northing	Elevation	Name
963,581.28	857,090.69	59.28	CP1
962,762.97	856,309.99	58.80	TR5
963,110.60	856,772.34	56.56	PUNCH1
964,655.42	858,644.77	49.21	GPCMON5

Notes:
1. CP2, TR1, TR2 AND TR6 were not recovered.
2. Vertical datum is NAVD88 based on reference National Geodetic Survey monument B213, Rincon, Georgia.

8/23/2018

NOTES:

1. EXISTING GRADE CONTOURS WITHIN CELLS A, B, C, D AND CONTROL POINTS WERE TAKEN FROM DRAWING NO. P355-4, PLANT MCINTOSH ASH CELLS - JUNE 2014 SURVEY, DATED JUNE, 26, 2014.
   - VERTICAL DATUM IS BASED ON BRASS MONUMENT (GPCMON5) NEAR PLANT STACK ELEVATION 50.10. ELEVATIONS WERE LOWERED 0.89' TO MOVE TO NAVD 88.
2. EXISTING GRADE CONTOURS BEYOND CELLS A, B, C, AND D WERE TAKE FROM USGS LIDAR SURVEY FROM JANUARY- MARCH 2010. THE DATA WAS OBTAINED FROM A MULTI-AGENCY PARTNERSHIP BETWEEN THE COASTAL GEORGIA REGIONAL DEVELOPMENT CENTER, USGS, FEMA, NOAA AND LOCAL COUNTY GOVERNMENTS.
   - HORIZONTAL DATUM IS GEORGIA STATE PLANE, NAD 83, EAST ZONE .
   - VERTICAL DATUM IS BASED ON NAVD 88.

GEORGIA REGISTERED No. PE041926 PROFESSIONAL ENGINEER JOHN MATTHEW TRASK

Georgia Power

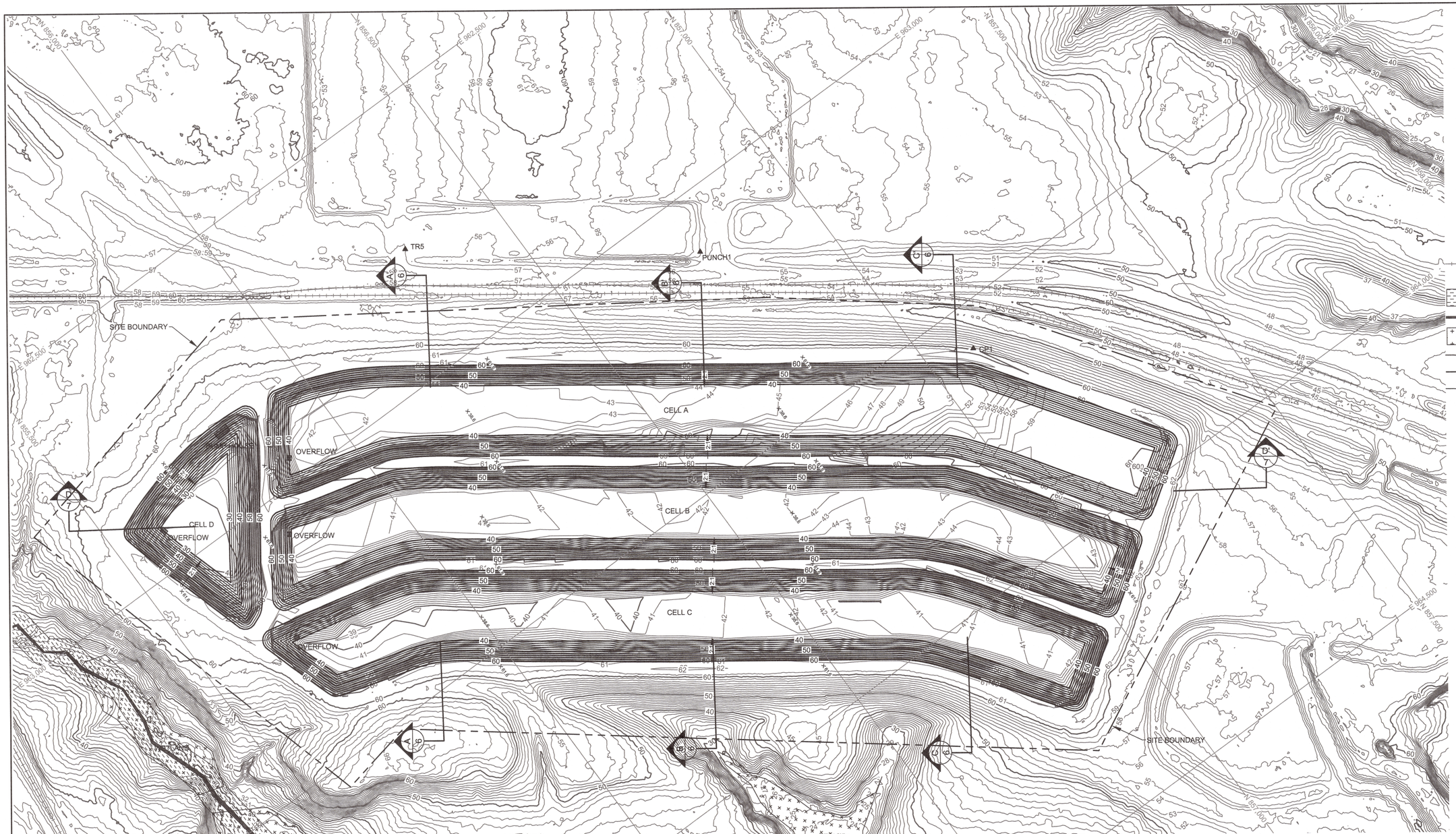
EXISTING SITE CONDITIONS

CLOSURE DRAWINGS

GEORGIA POWER COMPANY
PLANT MCINTOSH ASH POND 1 (AP-1)
EXISTING COAL COMBUSTION RESIDUALS (CCR)
SURFACE IMPOUNDMENT
EFFINGHAM, GEORGIA

GEI Consultants
1375 PEACHTREE STREET NE, SUITE A15
ATLANTA, GEORGIA 30309
(404) 592-0050
https://www.geiconsultants.com/

PROJ. NO.	1702944	DWG. 2	EDIT
SCALE	1"=100'	SHEET 2 OF 11	
DATE	NOVEMBER 2018		



NOTES:

1. EXISTING GRADE CONTOURS WITHIN CELLS A, B, C, D AND CONTROL POINTS WERE TAKEN FROM DRAWING NO. P355-4, PLANT MCINTOSH ASH CELLS - JUNE 2014 SURVEY, DATED JUNE, 26, 2014.
   - VERTICAL DATUM IS BASED ON BRASS MONUMENT (GPCMON5) NEAR PLANT STACK ELEVATION 50.10. ELEVATIONS WERE LOWERED 0.89' TO MOVE TO NAVD 88.
2. EXISTING GRADE CONTOURS BEYOND CELLS A, B, C, AND D WERE TAKE FROM USGS LIDAR SURVEY FROM JANUARY- MARCH 2010. THE DATA WAS OBTAINED FROM A MULTI-AGENCY PARTNERSHIP BETWEEN THE COASTAL GEORGIA REGIONAL DEVELOPMENT CENTER, USGS, FEMA, NOAA AND LOCAL COUNTY GOVERNMENTS.
   - HORIZONTAL DATUM IS GEORGIA STATE PLANE, NAD 83, EAST ZONE .
   - VERTICAL DATUM IS BASED ON NAVD 88.
3. DESIGN BASE GRADE CONTOURS (1981) WITHIN CELLS A, B, C, AND D WERE TAKEN FROM DRAWING NO. C-10, R-2, GRADING AND DRAINAGE PLAN, -LOOP TRACK AREA, AND DRAWING NO. C-12, R-1, GRADING AND DRAINAGE SECTIONS, BY REYNOLDS SMITH AND HILLS, DATED JANUARY 7, 1981. ELEVATIONS WERE LOWERED 0.89' TO MOVE TO NAVD 88.

APPROVED
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ENVIRONMENTAL PROTECTION DIVISION
NOV 22 2019
SOLID WASTE MANAGEMENT PROGRAM
Permit Number 051-011(CCR)
Reviewed By

Control Monuments			
Easting	Northing	Elevation	Name
963,581.28	857,090.69	59.28	CP1
962,762.97	856,309.99	58.80	TR5
963,110.60	856,772.34	56.56	PUNCH1
964,655.42	858,644.77	49.21	GPCMON5

Notes:
1. CP2, TR1, TR2 AND TR6 were not recovered.
2. Vertical datum is NAVD88 based on reference National Geodetic Survey monument B213, Rincon, Georgia.

8/23/2018

GEORGIA REGISTERED No. PEG41928 PROFESSIONAL ENGINEER JOHN MATTHEW TRAIL

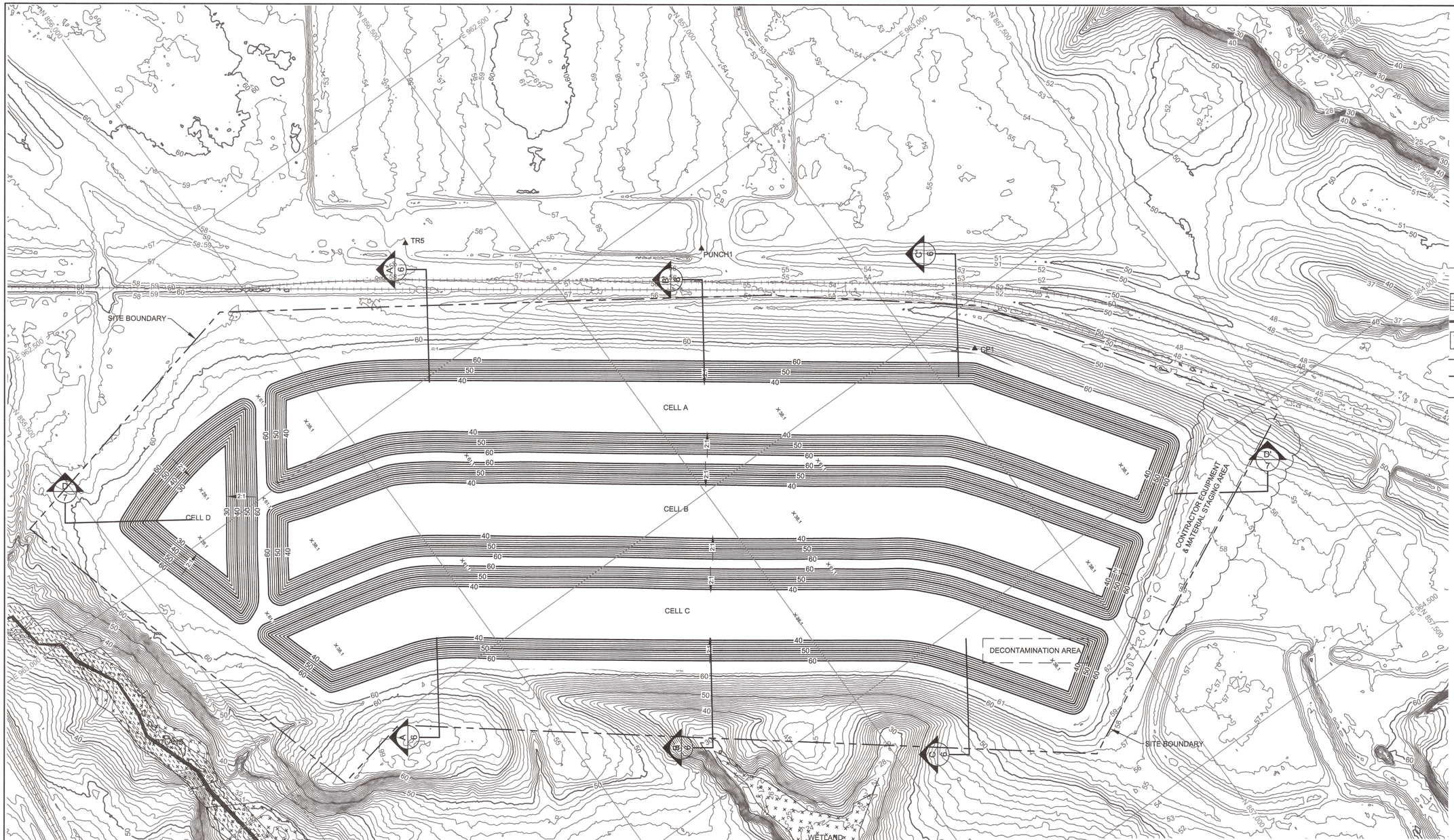
Georgia Power

ORIGINAL BASE GRADES

CLOSURE DRAWINGS
GEORGIA POWER COMPANY
PLANT MCINTOSH ASH POND 1 (AP-1)
EXISTING COAL COMBUSTION RESIDUALS (CCR)
SURFACE IMPOUNDMENT
EFFINGHAM, GEORGIA

GEI Consultants
1375 PEACHTREE STREET NE, SUITE A15
ATLANTA, GEORGIA 30309
(404) 592-0050
https://www.geiconsultants.com/

PROJ. NO.	1702944	DWG. 3	EDIT
SCALE	1"=100'	SHEET 3 OF 11	
DATE	NOVEMBER 2018		



SCALE IN FEET

100' 0 100'

LEGEND

- RAILROAD (APPROXIMATE)
- TR5 — BENCHMARK/CONTROL MONUMENT
- STREAM BUFFER
- STREAM
- WETLAND
- 50 — EXISTING GROUND SURFACE CONTOUR
- SITE BOUNDARY
- 60 — PROPOSED BOTTOM OF EXCAVATION CONTOUR

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STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION
NOV 22 2019
SOLID WASTE MANAGEMENT PROGRAM
Permit Number 051-011D(CCR)
Reviewed By

Control Monuments			
Easting	Northing	Elevation	Name
963,581.28	857,090.69	59.28	CP1
962,762.97	856,309.99	58.80	TR5
963,110.60	856,772.34	56.56	PUNCH1
964,655.42	858,644.77	49.21	GPCMON5

Notes:
1. CP2, TR1, TR2 AND TR6 were not recovered.
2. Vertical datum is NAVD88 based on reference National Geodetic Survey monument B213, Rincon, Georgia.

8/23/2018

NOTES:

1. EXISTING GRADE CONTOURS WITHIN CELLS A, B, C, D AND CONTROL POINTS WERE TAKEN FROM DRAWING NO. P355-4, PLANT MCINTOSH ASH CELLS - JUNE 2014 SURVEY, DATED JUNE, 26, 2014.
   - VERTICAL DATUM IS BASED ON BRASS MONUMENT (GPCMON5) NEAR PLANT STACK ELEVATION 50.10. ELEVATIONS WERE LOWERED 0.89' TO MOVE TO NAVD 88.
2. EXISTING GRADE CONTOURS BEYOND CELLS A, B, C, AND D WERE TAKE FROM USGS LIDAR SURVEY FROM JANUARY- MARCH 2010. THE DATA WAS OBTAINED FROM A MULTI-AGENCY PARTNERSHIP BETWEEN THE COASTAL GEORGIA REGIONAL DEVELOPMENT CENTER, USGS, FEMA, NOAA AND LOCAL COUNTY GOVERNMENTS.
   - HORIZONTAL DATUM IS GEORGIA STATE PLANE, NAD 83, EAST ZONE .
   - VERTICAL DATUM IS BASED ON NAVD 88.
3. CONTOURS WITHIN CELLS A, B, C, AND D REPRESENT BOTTOM OF EXCAVATION GRADE CONTOURS.

GEORGIA REGISTERED No. PE041928 PROFESSIONAL ENGINEER JOHN MATTHEW TRASK

Georgia Power

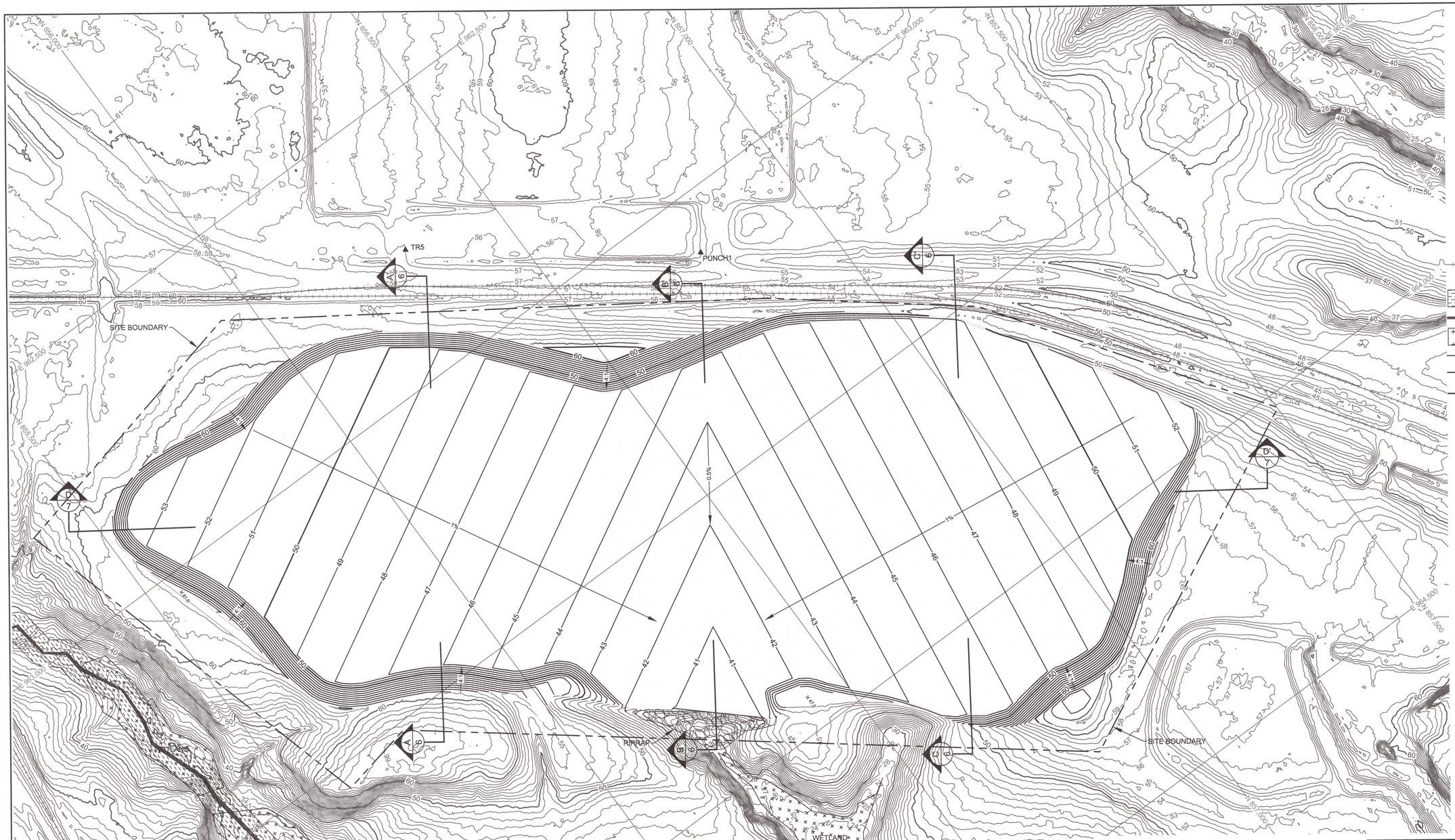
APPROXIMATE BOTTOM OF EXCAVATION GRADES

CLOSURE DRAWINGS

GEORGIA POWER COMPANY
PLANT MCINTOSH ASH POND 1 (AP-1)
EXISTING COAL COMBUSTION RESIDUALS (CCR) SURFACE IMPOUNDMENT
EFFINGHAM, GEORGIA

GEI Consultants
1375 PEACHTREE STREET NE, SUITE A15
ATLANTA, GEORGIA 30309
(404) 592-0050
https://www.geiconsultants.com/

PROJ. NO.	1702944	DWG. 4	EDIT
SCALE	1"=100'	SHEET 4 OF 11	
DATE	NOVEMBER 2018		



SCALE IN FEET

100' 0 100'

LEGEND

- RAILROAD (APPROXIMATE)
- TR5 — BENCHMARK/CONTROL MONUMENT
- STREAM BUFFER
- STREAM
- WETLAND
- 50 — EXISTING GROUND SURFACE CONTOUR
- SITE BOUNDARY
- 40 — PROPOSED RESTORATION GRADE CONTOUR

APPROVED
STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION
NOV 22 2019
SOLID WASTE MANAGEMENT PROGRAM
Permit Number 057-011D(CCR)
Reviewed By

Control Monuments			
Easting	Northing	Elevation	Name
963,581.28	857,090.69	59.28	CP1
962,762.97	856,309.99	58.80	TR5
963,110.60	856,772.34	56.56	PUNCH1
964,655.42	858,644.77	49.21	GPCMON5

Notes:
1. CP2, TR1, TR2 AND TR6 were not recovered.
2. Vertical datum is NAVD88 based on reference National Geodetic Survey monument B213, Rincon, Georgia.

8/23/2018

NOTES:

1. EXISTING GRADE CONTOURS WITHIN CELLS A, B, C, D AND CONTROL POINTS WERE TAKEN FROM DRAWING NO. P355-4, PLANT MCINTOSH ASH CELLS - JUNE 2014 SURVEY, DATED JUNE, 26, 2014.
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2. EXISTING GRADE CONTOURS BEYOND CELLS A, B, C, AND D WERE TAKE FROM USGS LIDAR SURVEY FROM JANUARY- MARCH 2010. THE DATA WAS OBTAINED FROM A MULTI-AGENCY PARTNERSHIP BETWEEN THE COASTAL GEORGIA REGIONAL DEVELOPMENT CENTER, USGS, FEMA, NOAA AND LOCAL COUNTY GOVERNMENTS.
   - HORIZONTAL DATUM IS GEORGIA STATE PLANE, NAD 83, EAST ZONE .
   - VERTICAL DATUM IS BASED ON NAVD 88.
3. CONTOURS WITHIN CELLS A, B, C, AND D REPRESENT TOP OF RESTORATION GRADES.

GEORGIA REGISTERED No. PE041926 PROFESSIONAL ENGINEER JOHN MATHEW TRAST

Georgia Power

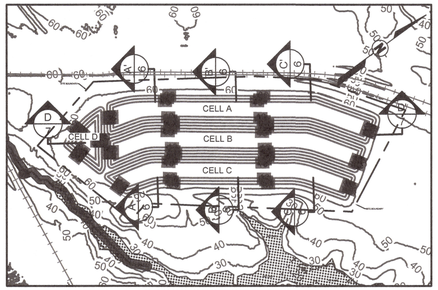
PROPOSED RESTORATION GRADES

CLOSURE DRAWINGS

GEORGIA POWER COMPANY
PLANT MCINTOSH ASH POND 1 (AP-1)
EXISTING COAL COMBUSTION RESIDUALS (CCR)
SURFACE IMPOUNDMENT
EFFINGHAM, GEORGIA

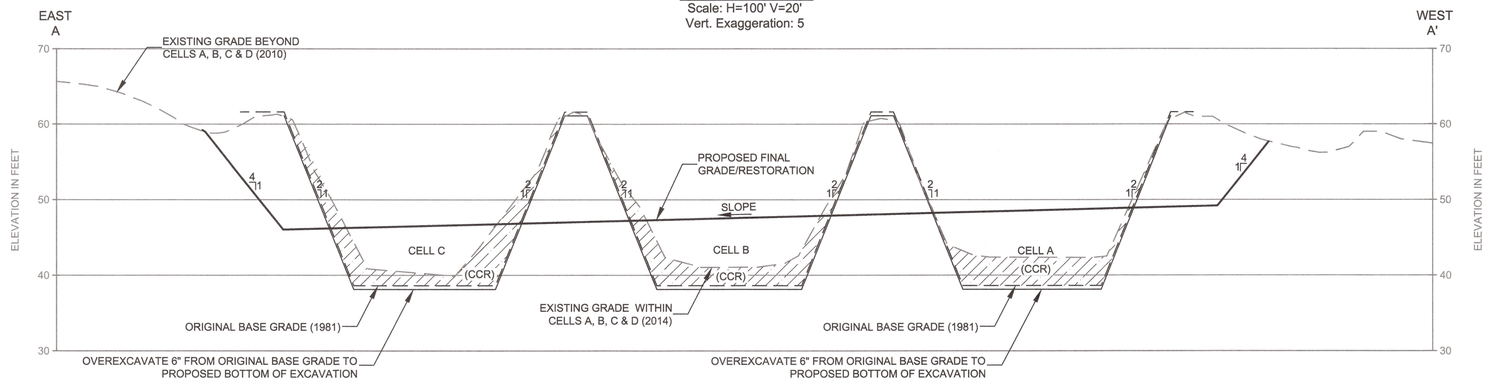
GEI Consultants
1375 PEACHTREE STREET NE, SUITE A15
ATLANTA, GEORGIA 30309
(404) 592-0050
https://www.geiconsultants.com/

PROJ. NO.	1702944	DWG. 5	EDIT
SCALE	1"=100'	SHEET 5 OF 11	
DATE	NOVEMBER 2018		



CROSS-SECTION INDEX
SCALE: 1"=500'

CROSS-SECTION A-A'
Scale: H=100' V=20'
Vert. Exaggeration: 5



CROSS-SECTION B-B'
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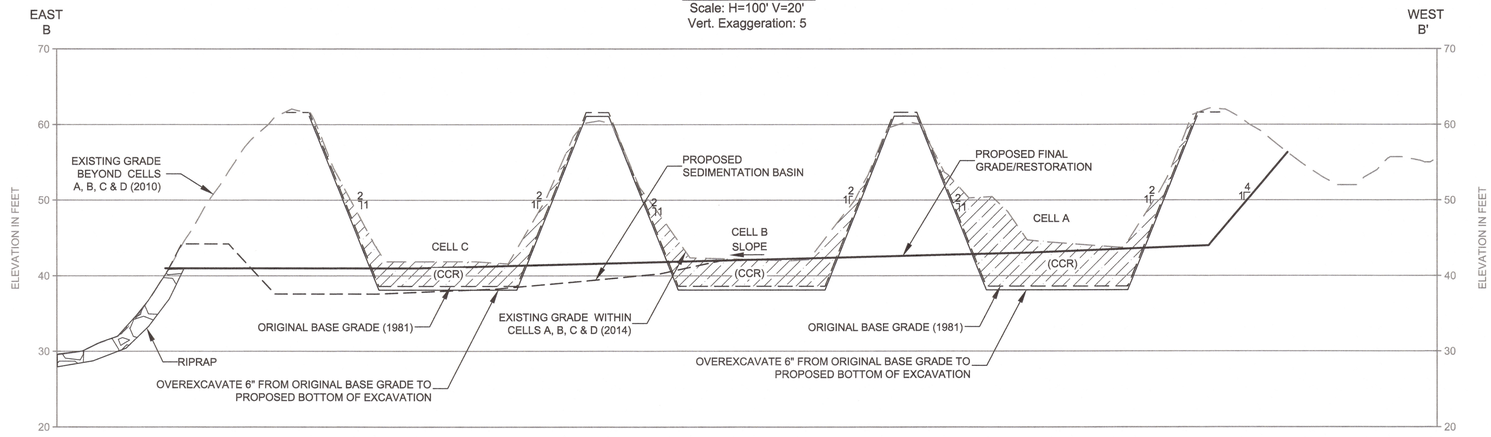
Vert. Exaggeration: 5



CROSS-SECTION C-C'
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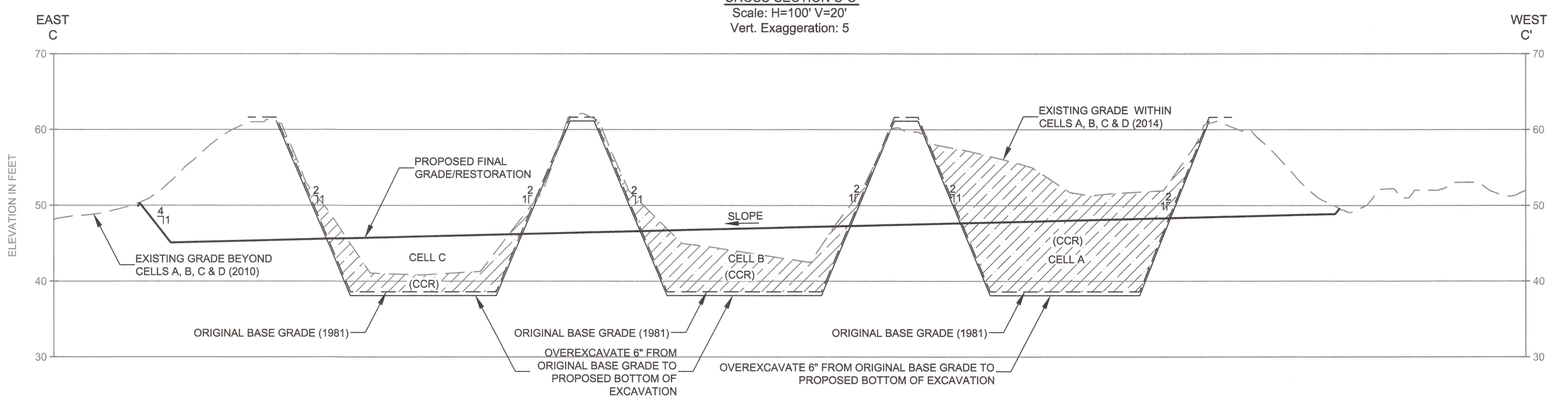
Vert. Exaggeration: 5



APPROVED
STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION
NOV 22 2019
SOLID WASTE MANAGEMENT PROGRAM
Permit Number 095-010(CCR)
Reviewed By

GEORGIA REGISTERED No. PE041928 PROFESSIONAL ENGINEER JOHN MATHEW TRUST

Georgia Power

CROSS-SECTIONS A-A', B-B' & C-C'

CLOSURE DRAWINGS

GEORGIA POWER COMPANY
PLANT MCINTOSH ASH POND 1 (AP-1)
EXISTING COAL COMBUSTION RESIDUALS (CCR)
SURFACE IMPOUNDMENT
EFFINGHAM, GEORGIA

GEI Consultants
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ATLANTA, GEORGIA 30309
(404) 592-0050
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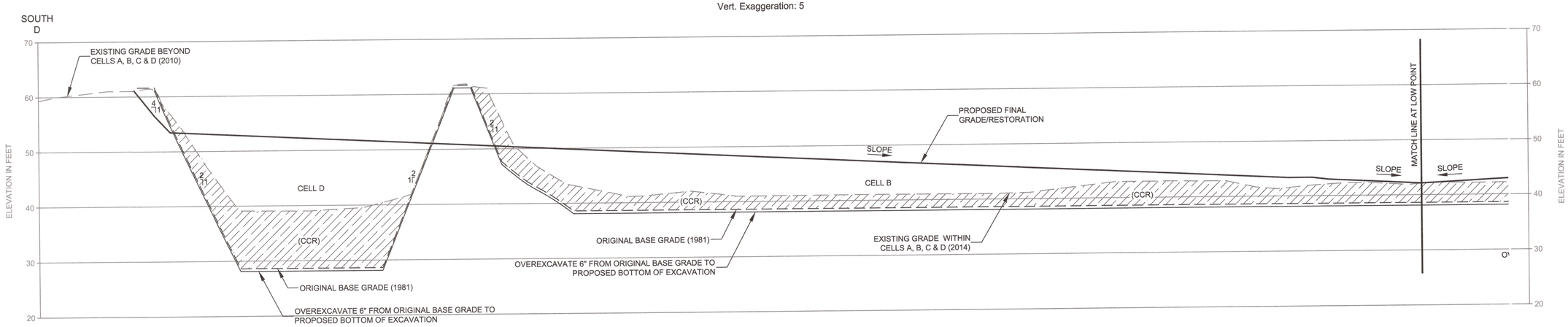
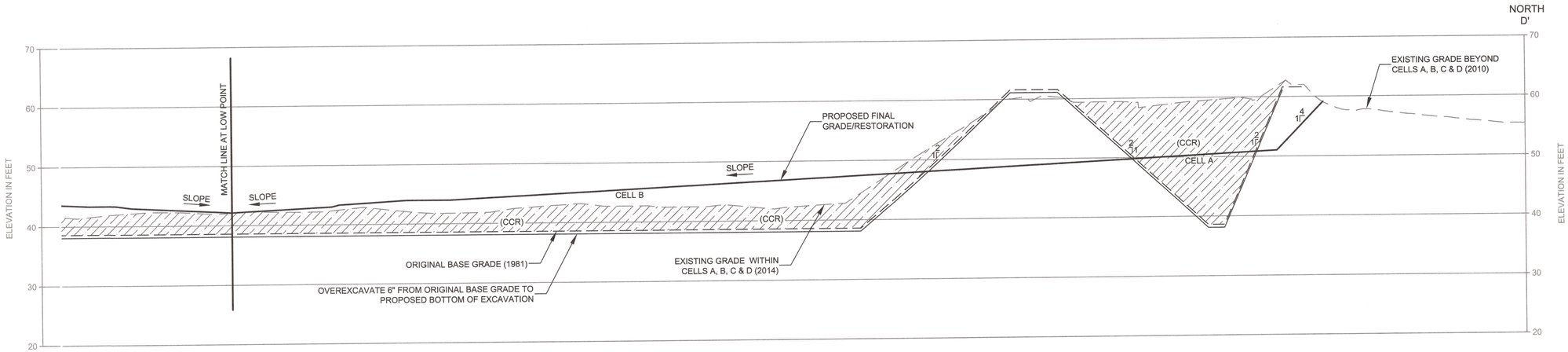
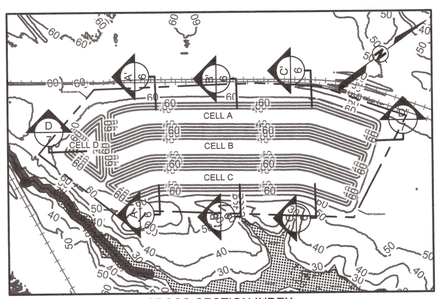
PROJ. NO.	1702944	DWG. 6	EDIT
SCALE	HORIZ. 1"=100', VERT. 1"=20'	SHEET 6 OF 11	
DATE	NOVEMBER 2018		

CROSS-SECTION D-D'
Scale: H=100' V=20'
Vert. Exaggeration: 5







CROSS-SECTION INDEX
SCALE: 1"=500'

APPROVED
STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION
NOV 22 2019
SOLID WASTE MANAGEMENT PROGRAM
Permit Number 051-011D(CCR)
Reviewed By

GEORGIA REGISTERED No. PE041928 PROFESSIONAL ENGINEER JOHN MATHEW TEAST

Georgia Power

CROSS-SECTION D-D'

CLOSURE DRAWINGS
GEORGIA POWER COMPANY
PLANT MCINTOSH ASH POND 1 (AP-1)
EXISTING COAL COMBUSTION RESIDUALS (CCR)
SURFACE IMPOUNDMENT
EFFINGHAM, GEORGIA

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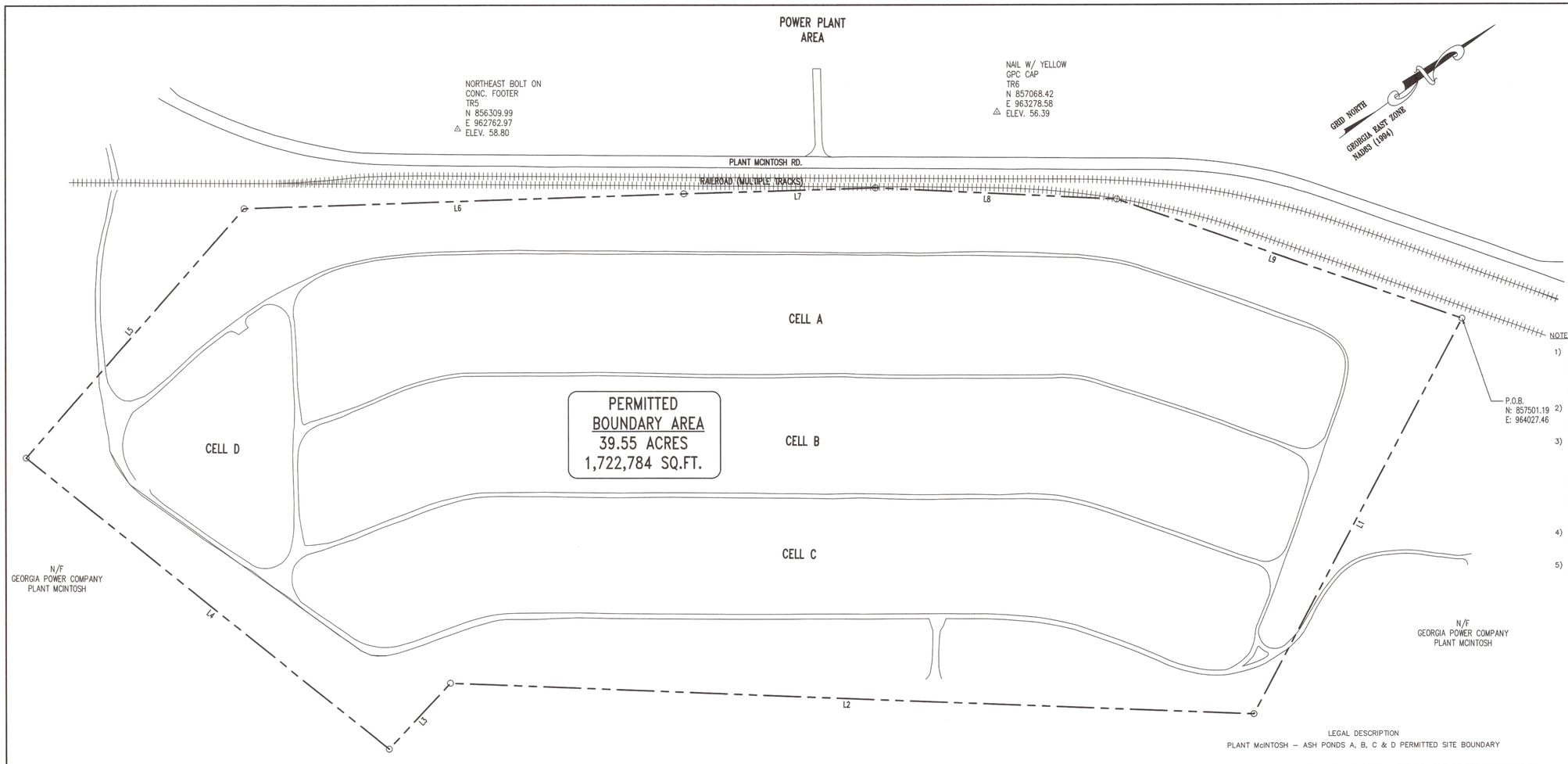
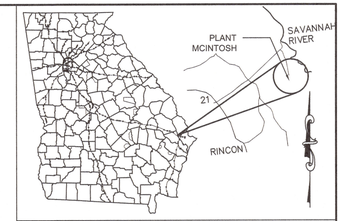
PROJ. NO.	1702944	DWG. 7	EDIT
SCALE	HORIZ. 1"=100', VERT. 1"=20'	SHEET 7 OF 11	
DATE	NOVEMBER 2018		





LOCATION MAP – NOT TO SCALE

MONUMENTATION LEGEND

- Iron Pin Set
- Iron Pin Found
- Monument Set 5"x5" Concrete
- Monument Found
- Computed Point
- CP1 / TR1 Control or Traverse Point
- Geodetic Control Point
- Benchmark or Temporary Benchmark (TBM)

UTILITY LEGEND

- Electric Manhole
- Electric Meter
- Gas Manhole
- Gas Valve
- Gas Meter
- Sanitary Sewer Manhole
- Sanitary Sewer Cleanout
- Storm Sewer Manhole
- Telephone Manhole
- Water Manhole
- Water Valve
- Water Meter
- Fire Hydrant
- Well
- Power Pole
- Transmission Tower
- Guy Wire

PLAT ABBREVIATIONS

IPF – Iron Pin Found
IPS – Iron Pin Set
FPS – Fence Post Set
OTP – Open Top Pipe
CTP – Crimp Top Pipe
Conc. – Concrete
Alumn. – Aluminum
FO – Fiber Optic
P/L – Property Line
R/W – Right of Way
C/L – Centerline
F/L – Fenceline
T/L – Transmission Line
N/F – Now or Formerly
DB – Deed Book
PB – Plat Book
MF – Map File No.
N.T.S. – Not to Scale
P.O.C.– Point of Commencement
P.O.B.– Point of Beginning
GBH – Geotechnical Bore Hole
UGP – Underground Power
OHU – OverHead Utilities
GPC – Georgia Power Company
OPC – Oglethorpe Power Corporation
(99) – Subdivision Lot Number

NOTES AND REFERENCES

1) THE SURVEY SHOWN HEREON IS A SPECIAL PURPOSE SURVEY TO ESTABLISH THE BOUNDARY OF THE PLANT MCINTOSH ASH PONDS A, B, C & D PERMITTED LANDS PER THE REQUIREMENTS OF THE STATE OF GEORGIA, DEPARTMENT OF NATURAL RESOURCES, ENVIRONMENTAL PROTECTION DIVISION.

2) BACKGROUND INFORMATION SHOWN HEREON TAKEN FROM FIELDWORK PERFORMED BY GEORGIA POWER COMPANY, DATED 6/11/2014.

3) REFERENCE WAS MADE TO THE FOLLOWING MAPS & SURVEYS;

A.) SURVEY PREPARED BY GEORGIA POWER COMPANY TITLED "PLANT MCINTOSH ASH CELLS – JUNE 2014 SURVEY", DATED JUNE 26, 2014, GPC MAP FILE NO. P355–4.

B.) SURVEY PREPARED BY GEORGIA POWER COMPANY TITLED "PLANT MCINTOSH ASH POND DRAINAGE STRUCTURES", DATED JUNE 21, 2014, GPC MAP FILE NO. P417–8.

4) NO FIELD WORK WAS PERFORMED. THIS MAP HAS BEEN CALCULATED FOR CLOSURE AND IS FOUND TO BE ACCURATE WITHIN ONE FOOT IN 807,911 FEET.

5) HORIZONTAL DATUM IS GEORGIA STATE PLANE – EAST ZONE NAD84(94)

APPROVED
STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION
NOV 22 2019
SOLID WASTE MANAGEMENT PROGRAM
Permit Number 057-011D(LCUD)
Reviewed By

GRAPHIC SCALE

100 0 50 100 200 400

(1 IN = 100 FEET)

LINE TABLE		
LINE	BEARING	DIST
L1	S26°07'28"E	757.87
L2	S38°14'23"W	1366.22
L3	S11°07'46"E	152.92
L4	S74°39'27"W	789.87
L5	N12°45'52"W	562.20
L6	N34°04'31"E	748.09
L7	N34°13'09"E	325.56
L8	N38°41'54"E	410.42
L9	N55°07'39"E	621.03

LEGAL DESCRIPTION
PLANT McINTOSH – ASH PONDS A, B, C & D PERMITTED SITE BOUNDARY

ALL THAT TRACT OR PARCEL OF LAND LYING AND BEING IN THE 9TH GMD OF EFFINGHAM COUNTY, GEORGIA AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT HAVING GEORGIA STATE PLANE EAST ZONE NAD83(94) COORDINATES OF NORTH 857501.19 AND EAST 964027.46;
THENCE SOUTH 26 DEGREES 07 MINUTES 28 SECONDS EAST A DISTANCE OF 757.87 FEET TO A POINT;
THENCE SOUTH 38 DEGREES 14 MINUTES 23 SECONDS WEST A DISTANCE OF 1366.22 FEET TO A POINT;
THENCE SOUTH 11 DEGREES 07 MINUTES 46 SECONDS EAST A DISTANCE OF 152.92 FEET TO A POINT;
THENCE SOUTH 74 DEGREES 39 MINUTES 27 SECONDS WEST A DISTANCE OF 789.87 FEET TO A POINT;
THENCE NORTH 12 DEGREES 45 MINUTES 52 SECONDS WEST A DISTANCE OF 562.20 FEET TO A POINT;
THENCE NORTH 34 DEGREES 04 MINUTES 31 SECONDS EAST A DISTANCE OF 748.09 FEET TO A POINT;
THENCE NORTH 34 DEGREES 13 MINUTES 09 SECONDS EAST A DISTANCE OF 325.56 FEET TO A POINT;
THENCE NORTH 38 DEGREES 41 MINUTES 54 SECONDS EAST A DISTANCE OF 410.42 FEET TO A POINT;
THENCE NORTH 55 DEGREES 07 MINUTES 39 SECONDS EAST A DISTANCE OF 621.03 FEET TO A POINT AND THE POINT OF BEGINNING;

SAID TRACT CONTAINING 39.55 ACRES MORE OR LESS AND BEING MORE FULLY DEPICTED ON A SURVEY PREPARED BY GEORGIA POWER COMPANY TITLED "SURVEY OF PLANT McINTOSH – ASH POND A, B, C & D PERMITTED SITE BOUNDARY", DATED 11/6/2018, GPC MAP FILE NO. P470–7.

T:\Working2\Ash\McIntosh\2018100147 Plant McIntosh – Ash Ponds – Permitted Boundary

REVISION BLOCK
3/19/2019 DRC "A,B & C" TO "A,B,C & D" IN NOTES & LEGAL

APPROVALS

GEORGIA POWER CO., ATLANTA, GA.
Land Engineering Department

SURVEY OF
PLANT McINTOSH – ASH POND CELLS A, B, C & D PERMITTED SITE BOUNDARY

9TH GEORGIA MILITIA DISTRICT, EFFINGHAM COUNTY, GEORGIA

DR.	TR.	Checked
YJT		WHB
SCALE		DATE
1" = 100'		NOVEMBER 6, 2018

DRAWING NUMBER
P470–7
Sheet 1 of 1

PLAT & LEGAL DESCRIPTION

CLOSURE DRAWINGS
GEORGIA POWER COMPANY
PLANT MCINTOSH ASH POND 1 (AP-1)
EXISTING COAL COMBUSTION RESIDUALS (CCR)
SURFACE IMPOUNDMENT
EFFINGHAM, GEORGIA

GEI Consultants
1375 PEACHTREE STREET NE, SUITE A15
ATLANTA, GEORGIA 30309
(404) 592-0050
https://www.geiconsultants.com/

PROJ. NO.	1702944	DWG.	8	EDIT
SCALE	NONE	SHEET	8	OF 11
DATE	NOVEMBER 2018			

LATITUDE: N32°21'02"
LONGITUDE: W81°10'17"

F.I.R.M. FLOOD NOTE:
THE PROPERTY SHOWN HEREON IS LOCATED IN ZONE X , PER FEDERAL INSURANCE RATE MAP OF EFFINGHAM COUNTY, GEORGIA, PANEL 300 OF 426, MAP NUMBER 13103C0300E EFFECTIVE DATE: DECEMBER 21, 2017.

GEORGIA PROFESSIONAL LAND SURVEYOR No.3055 WILLIAM H. BECHTLER

NOTE: THIS PLAT IS NOT VALID FOR RECORDING PURPOSES UNLESS SURVEYOR'S SIGNATURE APPEARS HEREON IN A CONTRASTING COLOR OF INK

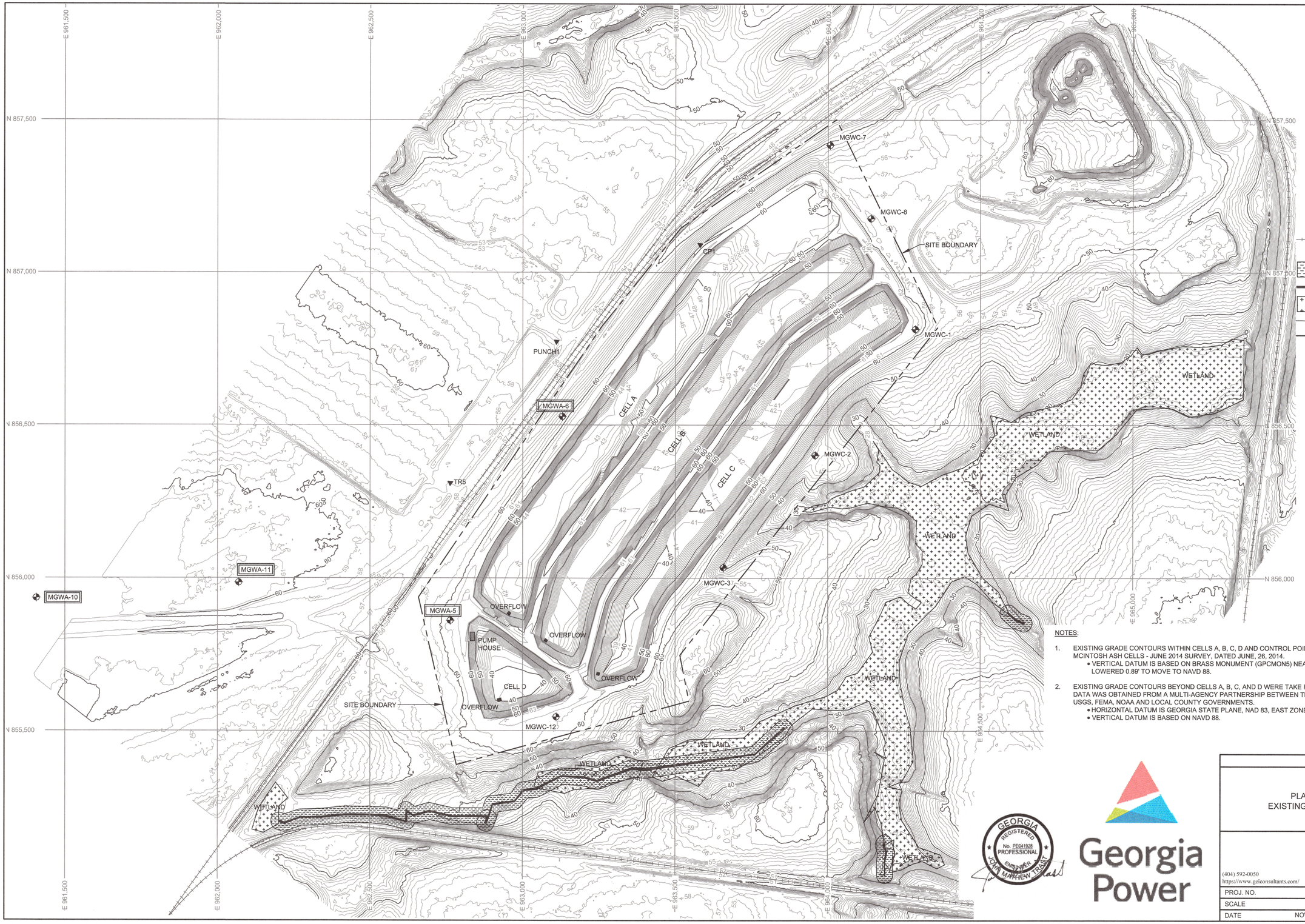
SURVEYOR:
GEORGIA POWER COMPANY
FIRM COA No. LSF 000191
WILLIAM H. BECHTLER, GA PLS No. 3055
241 RALPH MCGILL BLVD., N.E.
BIN 10151
ATLANTA, GA. 30308–3374
PHONE (404) 506–2450

AS REQUIRED BY SUBSECTION (D) OF O.C.G.A. SECTION 5–6–67, THIS PLAT HAS BEEN PREPARED BY A LAND SURVEYOR. THIS PLAT HAS BEEN APPROVED BY ALL APPLICABLE LOCAL JURISDICTIONS THAT REQUIRE PRIOR APPROVAL FOR RECORDING THIS TYPE OF PLAT OR ONE OR MORE OF THE APPLICABLE LOCAL JURISDICTIONS DO NOT REQUIRE APPROVAL OF THIS TYPE OF PLAT. FOR ANY APPLICABLE LOCAL JURISDICTION THAT REQUIRES APPROVAL OF THIS TYPE OF PLAT, THE NAMES OF THE INDIVIDUALS SIGNING OR APPROVING THIS PLAT, THE AGENCY OR OFFICE OF THAT INDIVIDUAL, AND THE DATE OF APPROVAL ARE LISTED IN THE APPROVAL TABLE SHOWN HEREON. FOR ANY APPLICABLE LOCAL JURISDICTION THAT DOES NOT REQUIRE APPROVAL OF THIS TYPE OF PLAT, THE NAME OF SUCH LOCAL JURISDICTION AND THE NUMBER OF THE APPLICABLE ORDINANCE OR RESOLUTION PROVIDING THAT NO SUCH APPROVAL IS REQUIRED ARE LISTED IN THE APPROVAL TABLE SHOWN HEREON. SUCH APPROVALS, AFFIRMATIONS, OR ORDINANCE OR RESOLUTION NUMBERS SHOULD BE CONFIRMED WITH THE APPROPRIATE GOVERNMENTAL BODIES BY ANY PURCHASER OR USER OF THIS PLAT AS TO INTENDED USE OF ANY PARCEL. FURTHERMORE, THE UNDERSIGNED LAND SURVEYOR CERTIFIES THAT THIS PLAT COMPLIES WITH THE MINIMUM TECHNICAL STANDARDS FOR PROPERTY SURVEYS IN GEORGIA AS SET FORTH IN THE RULES AND REGULATIONS OF THE GEORGIA BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS AND AS SET FORTH IN O.C.G.A. SECTION 15–6–67.

William H Bechtler 11-6-2018
WILLIAM H. BECHTLER, GA PLS NO. 3055 DATE

GEORGIA REGISTERED No. PE041928 PROFESSIONAL ENGINEER JOHN MATTHEW TRAST

Georgia Power



APPROVED
STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION
NOV 22 2019
SOLID WASTE MANAGEMENT PROGRAM
Permit Number: 057-22(COCR)
Reviewed By:

Control Monuments			
Easting	Northing	Elevation	Name
963,581.28	857,090.69	59.28	CP1
962,762.97	856,309.99	58.80	TR5
963,110.60	856,772.34	56.56	PUNCH1
964,655.42	858,644.77	49.21	GPCMON5

Notes:
1. CP2, TR1, TR2 AND TR6 were not recovered.
2. Vertical datum is NAVD88 based on reference National Geodetic Survey monument B213, Rincon, Georgia.

8/23/2018

NOTES:

1. EXISTING GRADE CONTOURS WITHIN CELLS A, B, C, D AND CONTROL POINTS WERE TAKEN FROM DRAWING NO. P355-4, PLANT MCINTOSH ASH CELLS - JUNE 2014 SURVEY, DATED JUNE, 26, 2014.
   - VERTICAL DATUM IS BASED ON BRASS MONUMENT (GPCMON5) NEAR PLANT STACK ELEVATION 50.10. ELEVATIONS WERE LOWERED 0.89' TO MOVE TO NAVD 88.
2. EXISTING GRADE CONTOURS BEYOND CELLS A, B, C, AND D WERE TAKE FROM USGS LIDAR SURVEY FROM JANUARY- MARCH 2010. THE DATA WAS OBTAINED FROM A MULTI-AGENCY PARTNERSHIP BETWEEN THE COASTAL GEORGIA REGIONAL DEVELOPMENT CENTER, USGS, FEMA, NOAA AND LOCAL COUNTY GOVERNMENTS.
   - HORIZONTAL DATUM IS GEORGIA STATE PLANE, NAD 83, EAST ZONE .
   - VERTICAL DATUM IS BASED ON NAVD 88.

GEORGIA REGISTERED No. PE041926 PROFESSIONAL ENGINEER JOHN MATTHEW TRAST

Georgia Power

COMPLIANCE MONITORING NETWORK

CLOSURE DRAWINGS

GEORGIA POWER COMPANY
PLANT MCINTOSH ASH POND 1 (AP-1)
EXISTING COAL COMBUSTION RESIDUALS (CCR)
SURFACE IMPOUNDMENT
EFFINGHAM, GEORGIA

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PROJ. NO.	1702944	DWG. 9	EDIT
SCALE	1"=150'	SHEET 9 OF 11	
DATE	NOVEMBER 2018		

GEORGIA
UNIFORM CODING SYSTEM

FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES

GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

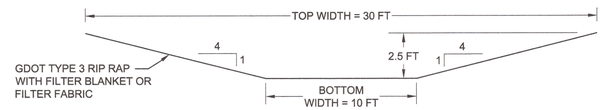
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel existing stream, or ditch.
Co	CONSTRUCTION EXIT		Co LINE	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION		Cr LINE	A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE		Dn1 LINE	A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNDRAIN STRUCTURE		Dn2 LINE	A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE		Gr LINE	Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainageways.
Re	RETAINING WALL		Re LINE	A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETRO FITTING		Rt LINE	A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER		SYMBOL ON LINE	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN		Sd3 LINE	A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SKIMMER		Sk LINE	A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BERM		Spb LINE	Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY STREAM CROSSING		Sr LINE	A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAIN OUTLET PROTECTION		St RIPRAP OUTLET	A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING		Su LINE	A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN		Tc LINE	A floating or staked barrier installed within the water (It may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSOILING		Tp AREA (STRIPPED TOPSOIL STORAGE AREA)	The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION		Tr LIMITS TREE LOCATION	To protect desirable trees from injury during construction activity.
Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL		Wt LINE	Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

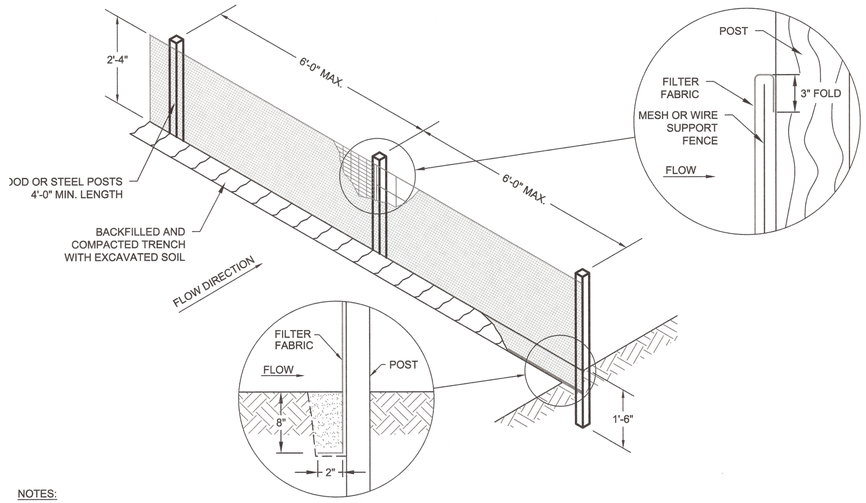
VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE		Bf LINE	Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)		Cs	Planting vegetation on dunes that are denuded, artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP. SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)		Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SODDING)		Ds4	A permanent vegetative cover using sods on highly erodable or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fl-Co	FLOCCULANTS AND COAGULANTS		Fl-Co	Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM VEGETATION)		Sb	The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION		Ss	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKIFIERS AND BINDERS		Tac	Substance used to anchor straw or hay mulch by causing the organic material to bind together.



Ch 10 **ARMORED STORMWATER CONVEYANCE CHANNEL**

SCALE: NTS

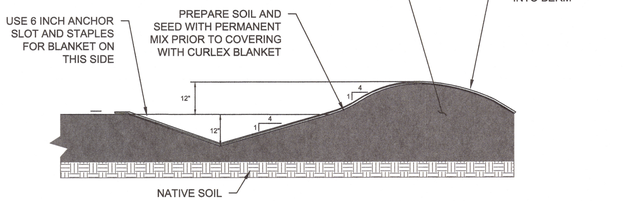


NOTES:

1. SILT FENCE TO BE INSTALLED PRIOR TO LAND DISTURBANCE AND MAINTAINED THROUGHOUT CONSTRUCTION.
2. FILTER FABRIC SHALL BE SECURELY ATTACHED TO POSTS WITH STAPLES, WIRES OR NAILS.
3. MINIMUM SPLICE OVERLAP SHALL BE 2'-0" WITH A POST AT EACH END.
4. USE OF MESH OR WIRE SUPPORT FENCE TO BE DETERMINED BY CONTRACTOR.
5. SILT FENCE INSTALLATION SHALL COMPLY WITH STANDARD GDOT DETAILS ON SHEET NOS. D-24A TO D.

Sd1 10 **TYPICAL SILT FENCE - NON-SENSITIVE AREAS**

SCALE: NTS

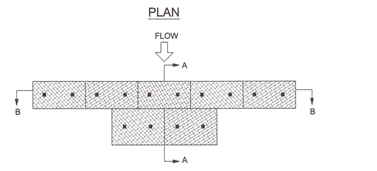


1. ALL TREES, STUMPS, BRUSH, ROOTS, WEEDS, AND OTHER OBJECTIONABLE MATERIALS SHOULD BE REMOVED FROM THE WORK AREA.
2. FOR NON-BACKFILL AREAS, THE DIVERSION SHOULD BE EXCAVATED AND SHAPED TO LINE GRADE, AND CROSS SECTION AS DESIGNED TO MEET THE CRITERIA SPECIFIED HEREIN. DIVERSIONS SHOULD BE EVENLY GRADED AND BE FREE OF IRREGULARITIES SUCH AS RISES OR DIPS THAT WOULD CAUSE NORMAL FLOW TO BE IMPEDED.
3. BERMS SHOULD BE MACHINE COMPACTED TO PREVENT UNEQUAL SETTLEMENT THAT WOULD CAUSE DAMAGE IN THE COMPLETED DIVERSION.
4. CHANNELS AND BERMS WITHIN DIVERSION SHALL BE COVERED WITH EROSION CONTROL MATTING AS SHOWN AND SPECIFIED.

APPROVED
STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION
NOV 22 2019
SOLID WASTE MANAGEMENT PROGRAM
Permit Number 057-011D(CCR2)
Reviewed By:

Di 10 **TYPICAL DIVERSION BERM**

SCALE: NTS



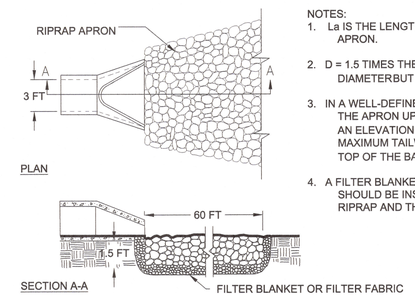
NOTES:

1. BALES SHOULD BE BOUND WITH WIRE OR NYLON STRING AND SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. REMOVE #4 REBAR AFTER STRAW BALES ARE NO LONGER IN PLACE.
3. POINT C OF SECTION B-B SHOULD ALWAYS BE HIGHER THAN POINT D.

Cd 10 **TYPICAL STRAW BALE CHECK DAM**

SCALE: NTS

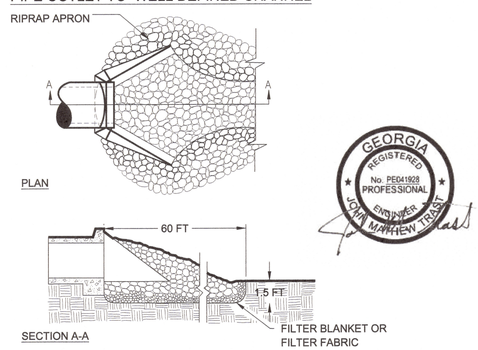
PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL



NOTES:

1. La IS THE LENGTH OF THE RIPRAP APRON.
2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETERBUT NOT LESS THAN 6".
3. IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION.

PIPE OUTLET TO WELL DEFINED CHANNEL



St 10 **RIPRAP OUTLET PROTECTION**

SCALE: NTS

GEORGIA REGISTERED No. PE041928 PROFESSIONAL ENGINEER JOHN MATTHEW TRUST

Georgia Power

DETAILS

CLOSURE DRAWINGS
GEORGIA POWER COMPANY
PLANT MCINTOSH ASH POND 1 (AP-1)
EXISTING COAL COMBUSTION RESIDUALS (CCR)
SURFACE IMPOUNDMENT
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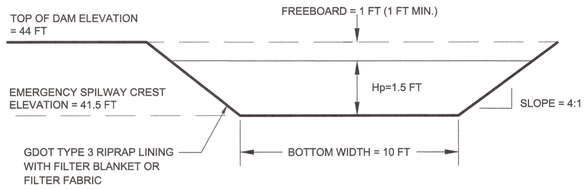
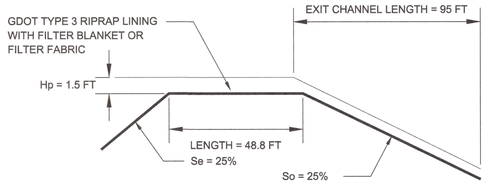
PROJ. NO.	1702944	DWG. 10	EDIT
SCALE	NONE	SHEET 10 OF 11	
DATE	NOVEMBER 2018		

PROFILE ALONG CENTERLINE

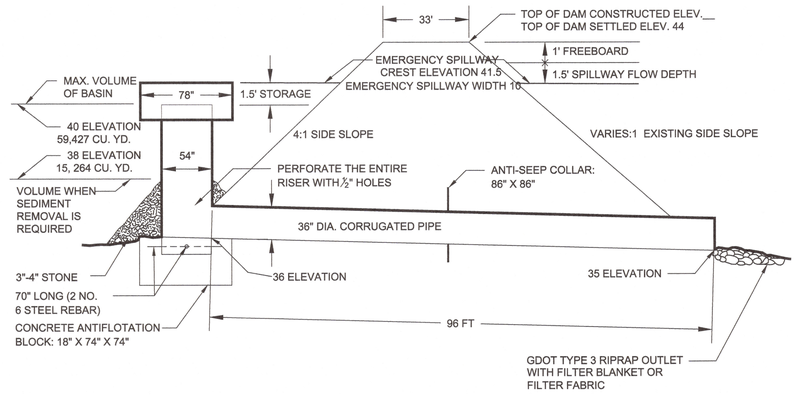


EMERGENCY SPILLWAY

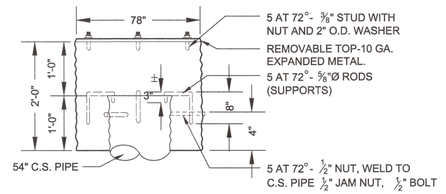


Sd3 / 11 — CROSS SECTIONAL DETAIL OF EMERGENCY SPILLWAY
SCALE: NTS

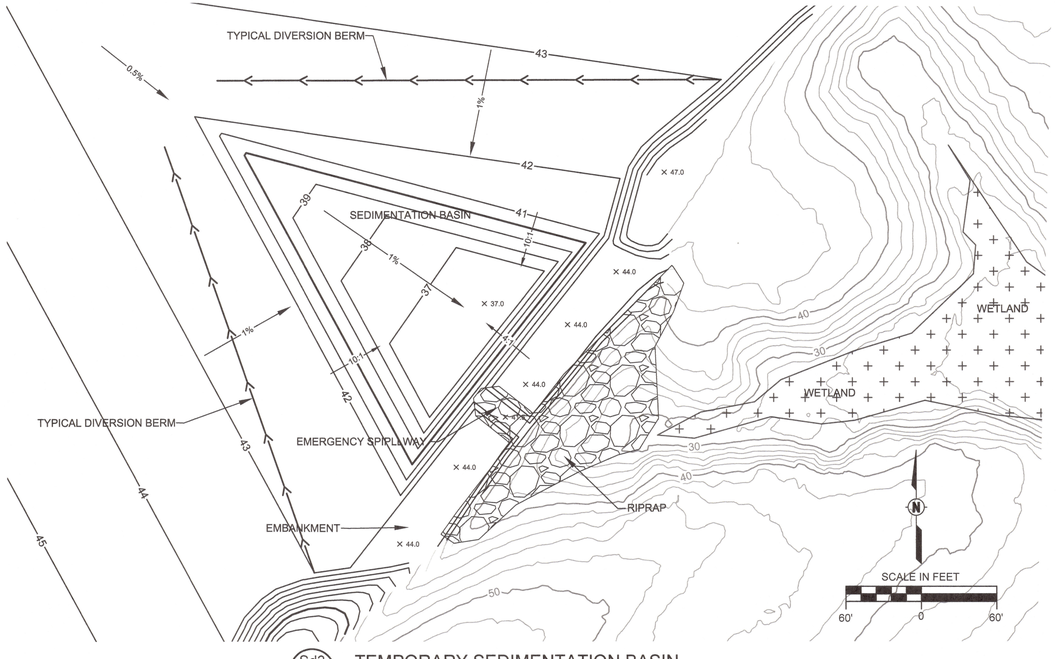
CROSS-SECTIONAL DETAIL



Sd3 / 11 — TEMPORARY SEDIMENTATION BASIN EMBANKMENT
SCALE: NTS



Sd3 / 11 — TYPICAL TRASHRACK
SCALE: NTS



Sd3 / 11 — TEMPORARY SEDIMENTATION BASIN
SCALE: 1"=60'

APPROVED
STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION
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SOLID WASTE MANAGEMENT PROGRAM
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GEORGIA REGISTERED No. PE041928 PROFESSIONAL ENGINEER JOHN MATTHEW TRAST

Georgia Power

DETAILS

CLOSURE DRAWINGS

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PLANT MCINTOSH ASH POND 1 (AP-1)
EXISTING COAL COMBUSTION RESIDUALS (CCR)
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PROJ. NO.	1702944	DWG. 11	EDIT
SCALE	NONE	SHEET 11 OF 11	
DATE	NOVEMBER 2018		