

CLOSURE DRAWINGS

GEORGIA POWER COMPANY

PLANT MCINTOSH ASH POND 1 (AP-1)

EXISTING COAL COMBUSTION RESIDUALS (CCR) SURFACE IMPOUNDMENT

EFFINGHAM, GEORGIA

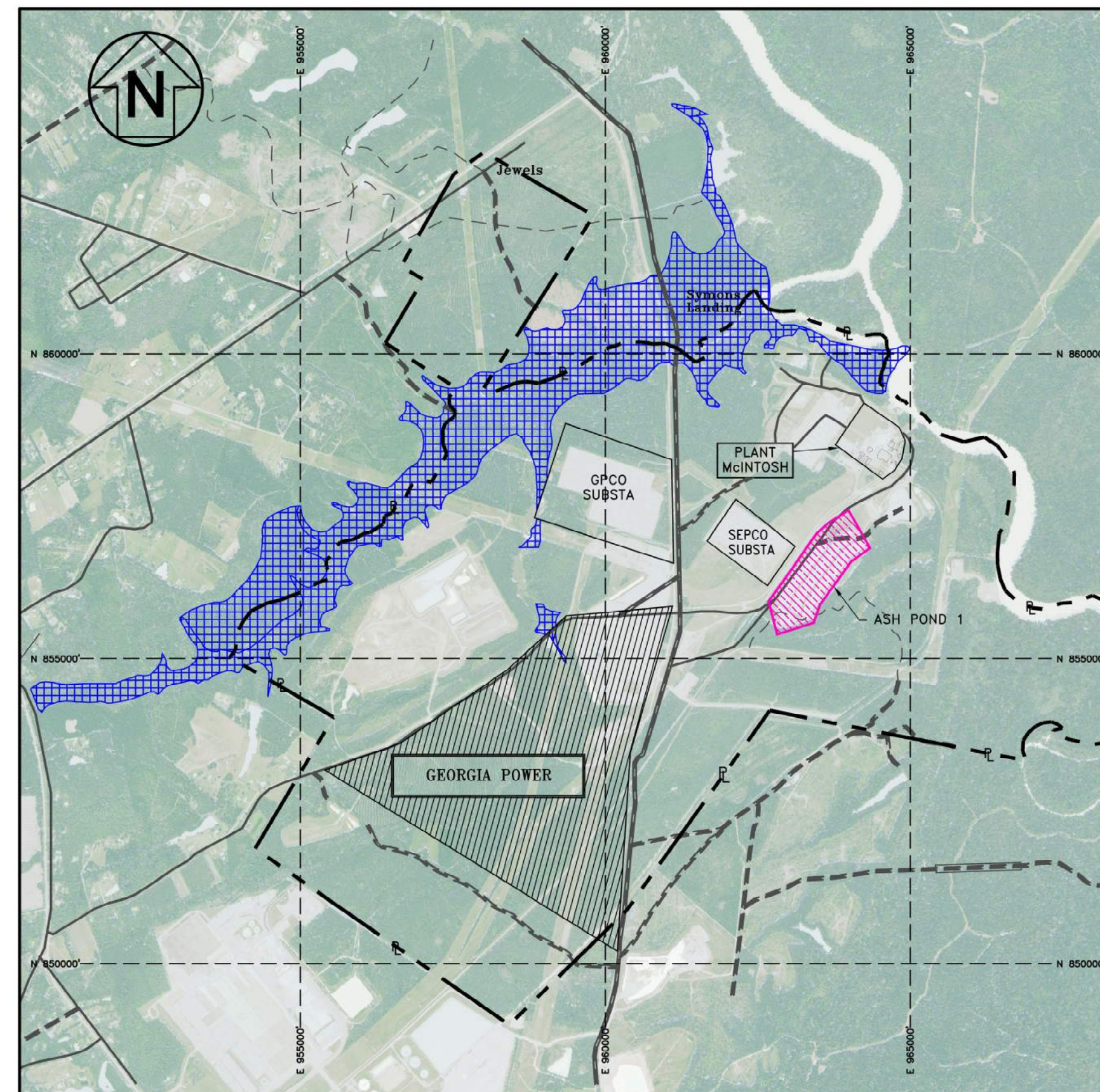
JULY 2022

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

REVISION	DATE	SHEETS
REV 01	07/11/2022	1 & 5

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



INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
-	COVER
1	INDEX AND LEGEND
2	EXISTING SITE CONDITIONS
3	ORIGINAL BASE GRADES
4	APPROXIMATE BOTTOM OF EXCAVATION GRADES
5	PROPOSED RESTORATION GRADES AND PHOTOVOLTAIC SYSTEM
6	CROSS-SECTIONS A-A', B-B' & C-C'
7	CROSS-SECTION D-D
8	PLAT & LEGAL DESCRIPTION
9	COMPLIANCE MONITORING NETWORK
10	DETAILS
11	DETAILS

LEGEND

EXISTING	PROPOSED	EXISTING	PROPOSED	
		PROPERTY LINE (APPROXIMATE)		BUILDING
		UNDISTURBED PROPERTY BUFFER		GROUNDWATER MONITORING WELL
		AREAS INUNDATED BY 100 YEAR FLOOD (APPROXIMATE)		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		LEACHATE CLEANOUT
		STORM DRAINAGE PIPE		LEACHATE SUMP
		STORM WATER DIVERSION BERM		LEACHATE MANHOLE / PUMP STATION
		SILT FENCE		LEACHATE VAULT
		WATER MAIN		AIR RELEASE VALVE
		SANITARY SEWER		HEADWALL
		POWER LINE		DROP INLET
		FENCE		OVERFLOW STRUCTURE
		RAILROAD		GATE
		SITE BOUNDARY		BORING/PIEZOMETER
		EXIST GROUND CONTOUR		SPOT ELEVATION
		PROPOSED GRADE CONTOUR		MARKER POST

GENERAL NOTES:

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



REVISION HISTORY

REV NO.	DATE	SHEETS
1	07/11/2022	SHEET 5 TITLE

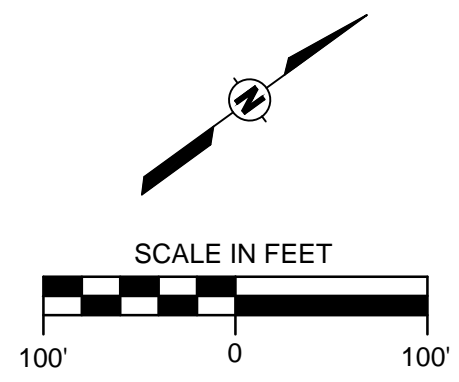
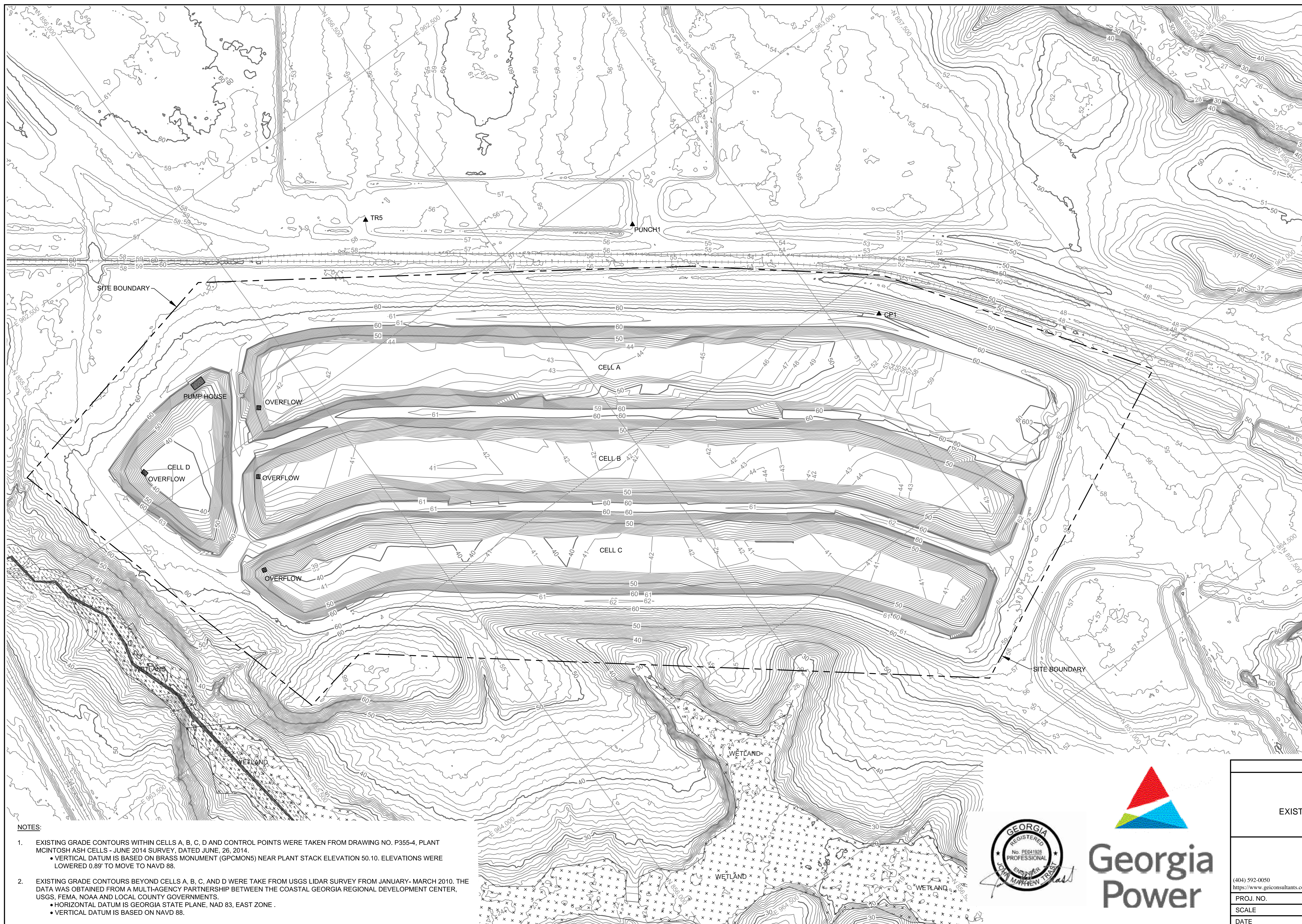
INDEX AND LEGEND

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



(404) 592-0050
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 ATLANTA, GEORGIA 30309

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



LEGEND

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



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:

- 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.
- 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.

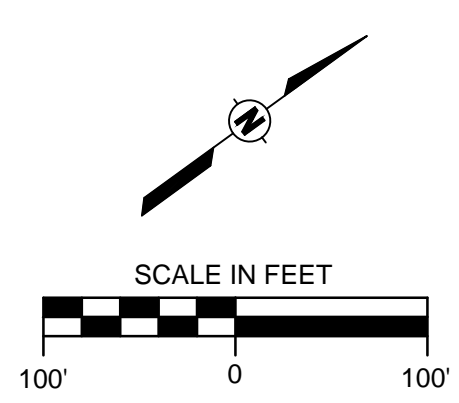
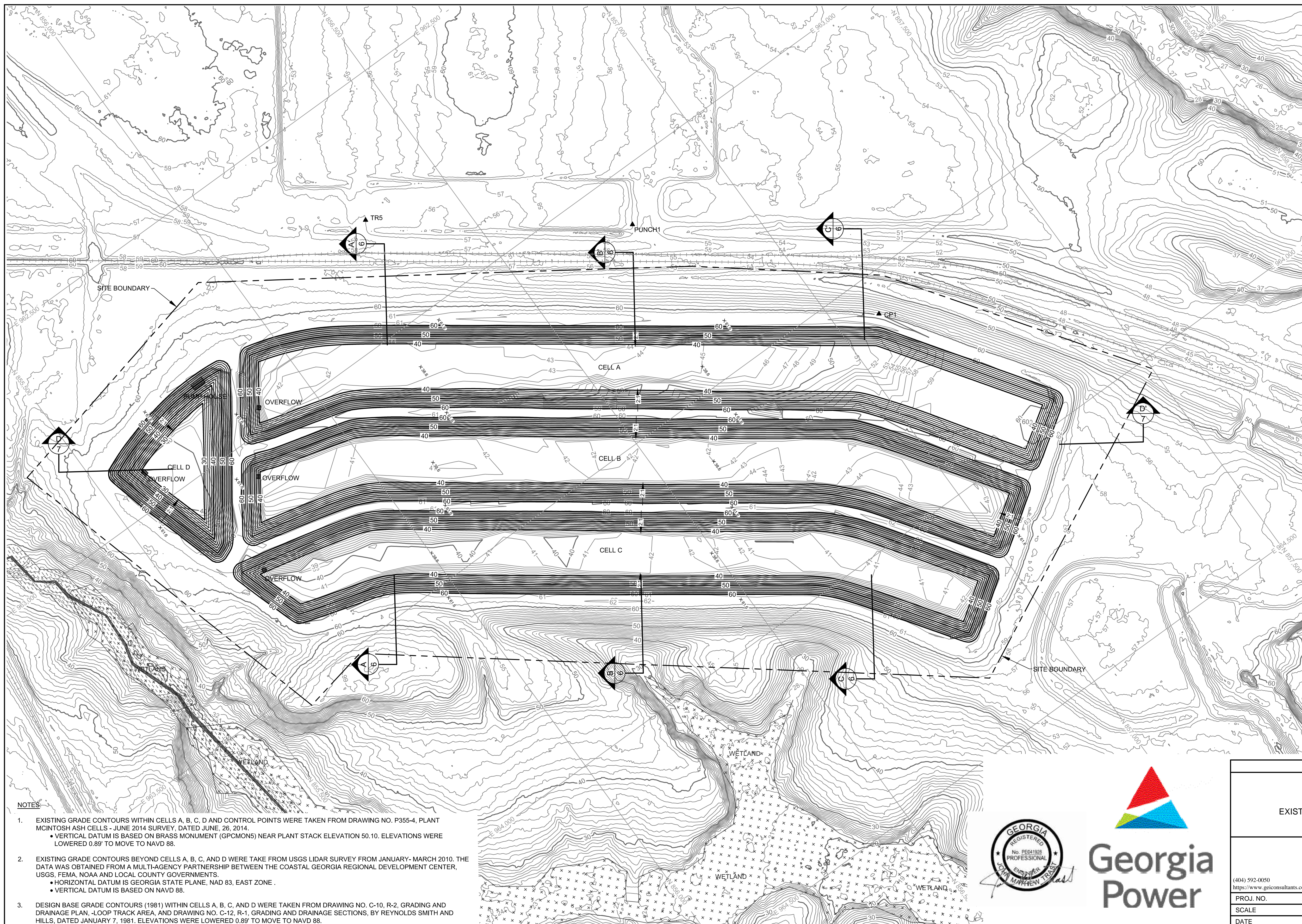


EXISTING SITE CONDITIONS
CLOSURE DRAWINGS
 GEORGIA POWER COMPANY
 PLANT MCINTOSH ASH POND 1 (AP-1)
 EXISTING COAL COMBUSTION RESIDUALS (CCR)
 SURFACE IMPOUNDMENT
 EFFINGHAM, GEORGIA

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



LEGEND

	RAILROAD (APPROXIMATE)
	BENCHMARK/CONTROL MONUMENT
	STREAM BUFFER
	STREAM
	WETLAND
	EXISTING GROUND SURFACE CONTOUR
	SITE BOUNDARY
	ORIGINAL BASE GRADE CONTOUR 1981



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**
- 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.
 - 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.
 - 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.

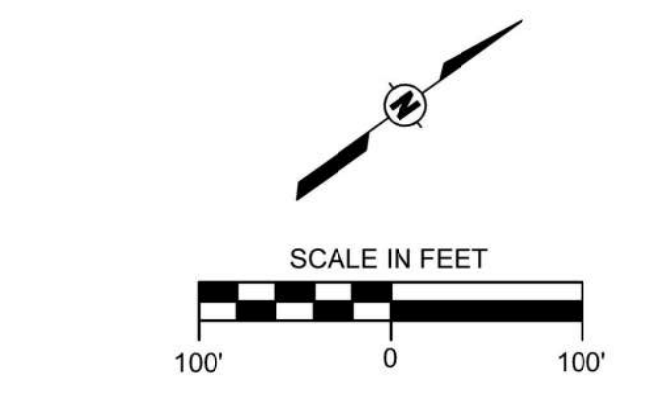
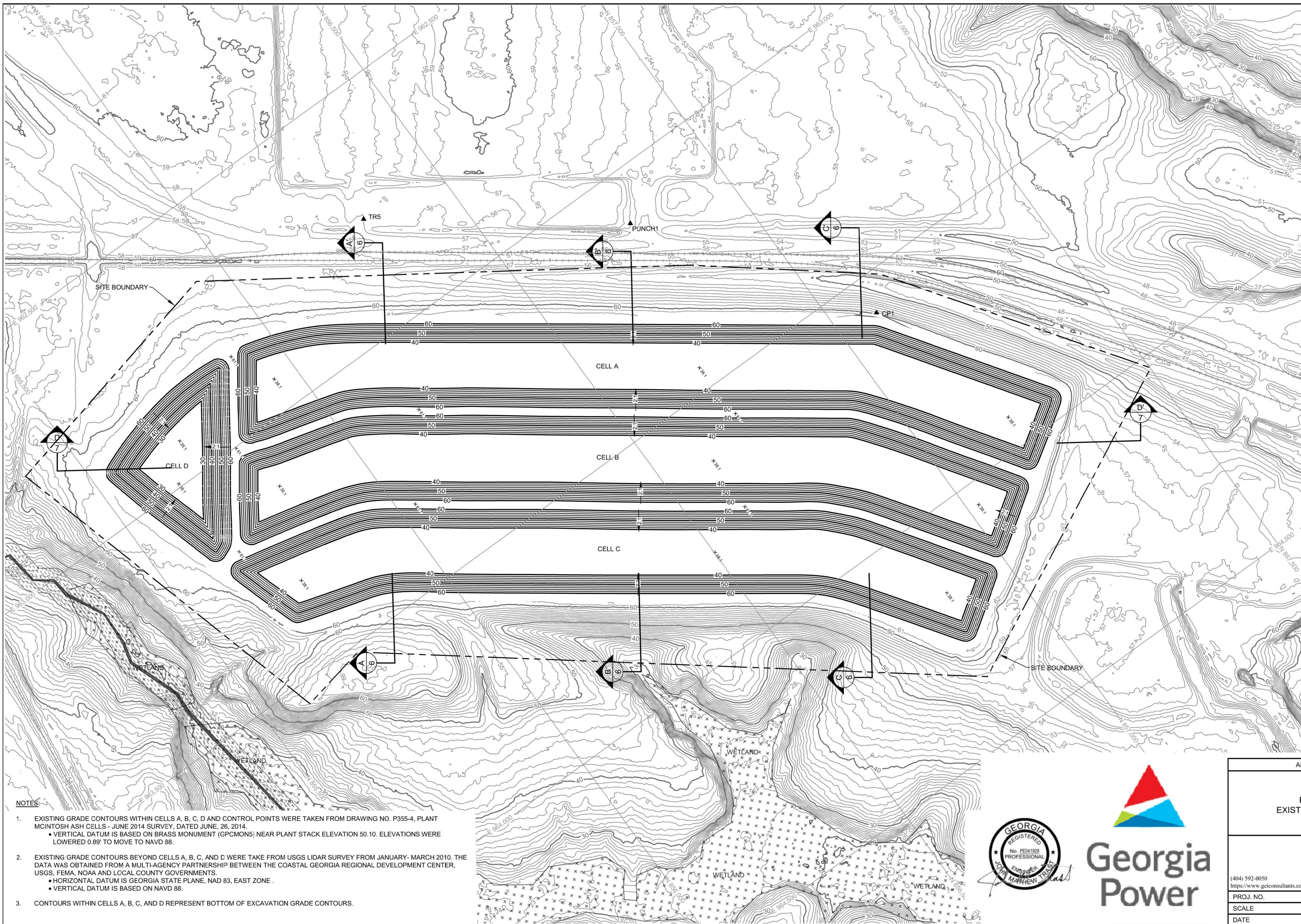


ORIGINAL BASE GRADES
CLOSURE DRAWINGS
 GEORGIA POWER COMPANY
 PLANT MCINTOSH ASH POND 1 (AP-1)
 EXISTING COAL COMBUSTION RESIDUALS (CCR)
 SURFACE IMPOUNDMENT
 EFFINGHAM, GEORGIA

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



LEGEND

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



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:**
- 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.
 - 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.
 - CONTOURS WITHIN CELLS A, B, C, AND D REPRESENT BOTTOM OF EXCAVATION GRADE CONTOURS.

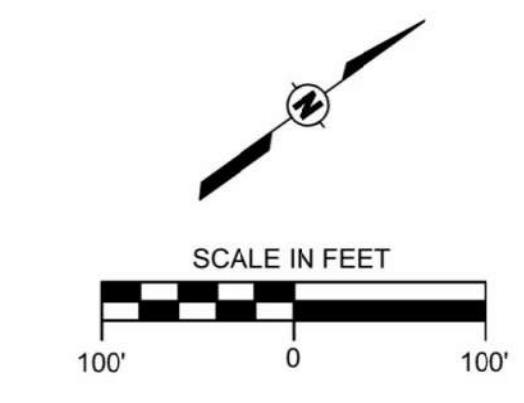
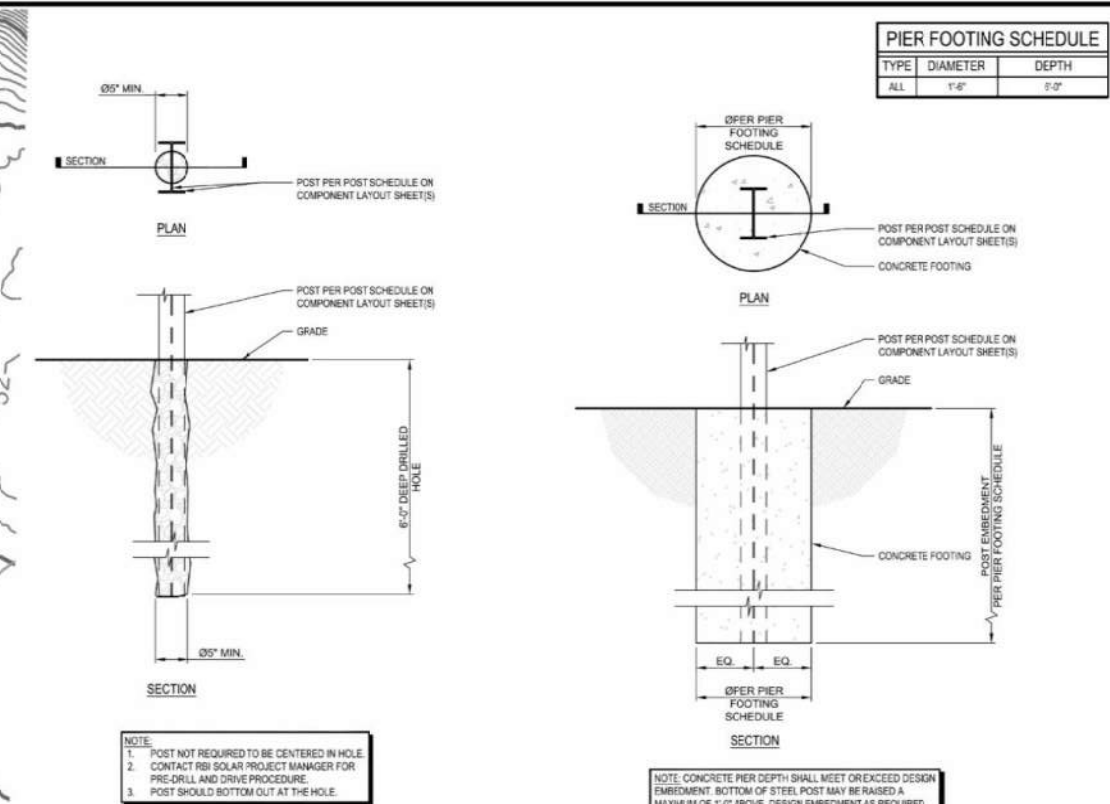
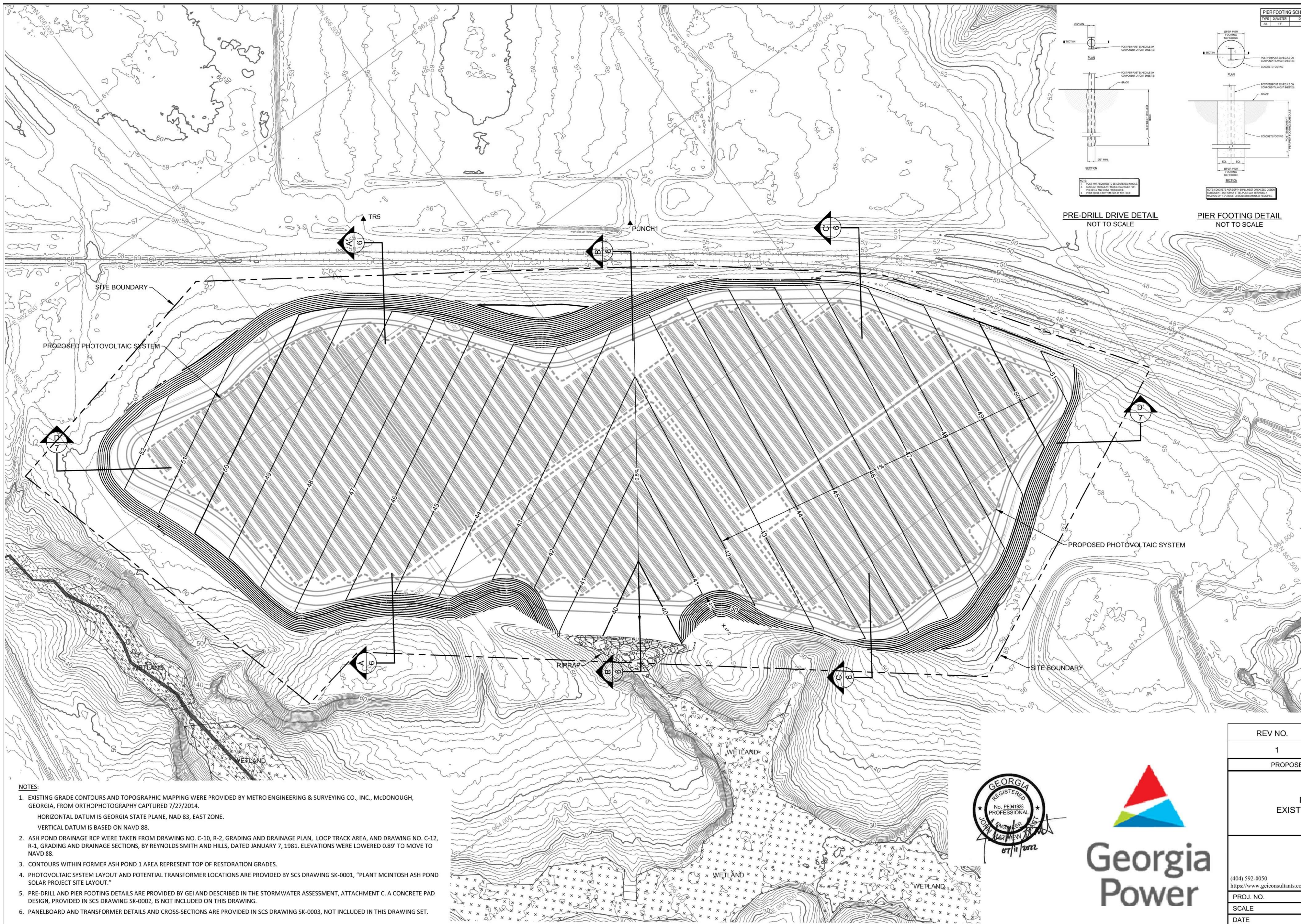


APPROXIMATE BOTTOM OF EXCAVATION GRADES

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

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



LEGEND

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



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.

- NOTES:**
- EXISTING GRADE CONTOURS AND TOPOGRAPHIC MAPPING WERE PROVIDED BY METRO ENGINEERING & SURVEYING CO., INC., McDONOUGH, GEORGIA, FROM ORTHOPHOTOGRAPHY CAPTURED 7/27/2014.
 HORIZONTAL DATUM IS GEORGIA STATE PLANE, NAD 83, EAST ZONE.
 VERTICAL DATUM IS BASED ON NAVD 88.
 - ASH POND DRAINAGE RCP 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.
 - CONTOURS WITHIN FORMER ASH POND 1 AREA REPRESENT TOP OF RESTORATION GRADES.
 - PHOTOVOLTAIC SYSTEM LAYOUT AND POTENTIAL TRANSFORMER LOCATIONS ARE PROVIDED BY SCS DRAWING SK-0001, "PLANT MCINTOSH ASH POND SOLAR PROJECT SITE LAYOUT."
 - PRE-DRILL AND PIER FOOTING DETAILS ARE PROVIDED BY GEI AND DESCRIBED IN THE STORMWATER ASSESSMENT, ATTACHMENT C. A CONCRETE PAD DESIGN, PROVIDED IN SCS DRAWING SK-0002, IS NOT INCLUDED ON THIS DRAWING.
 - PANELBOARD AND TRANSFORMER DETAILS AND CROSS-SECTIONS ARE PROVIDED IN SCS DRAWING SK-0003, NOT INCLUDED IN THIS DRAWING SET.



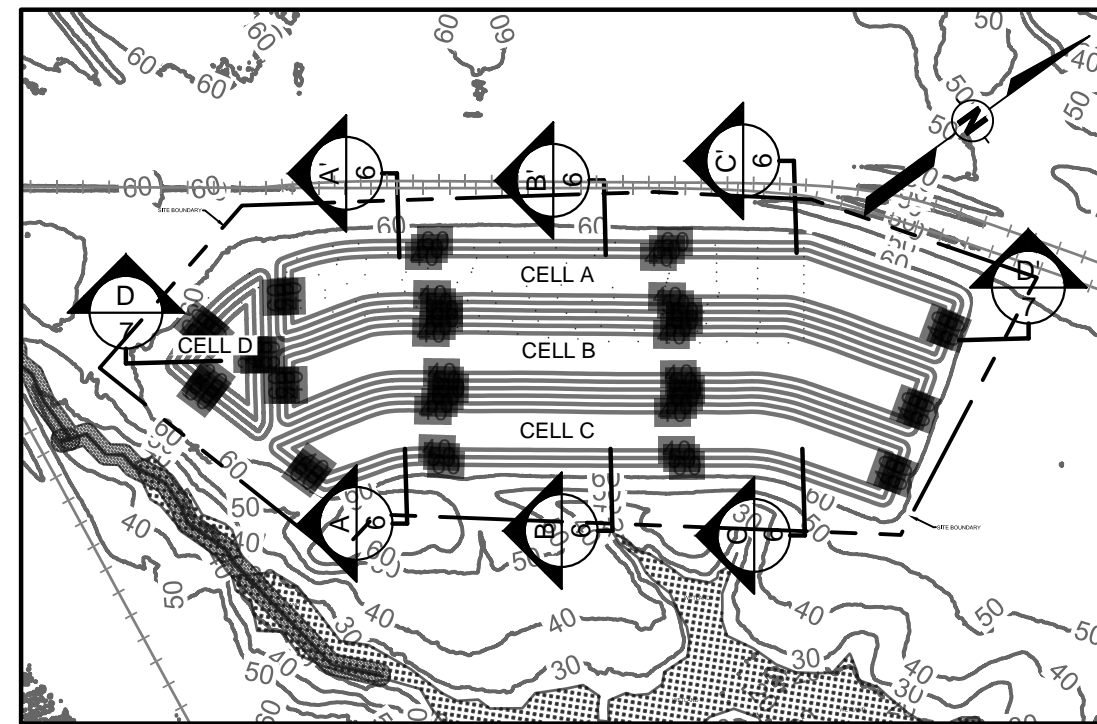
REVISION HISTORY

REV NO.	DATE	SHEETS
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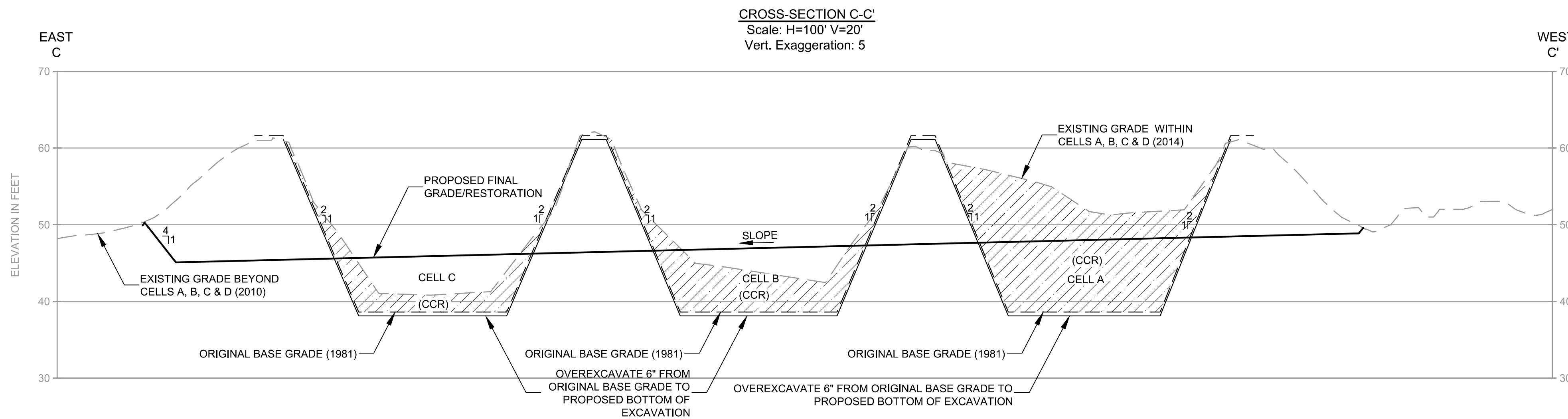
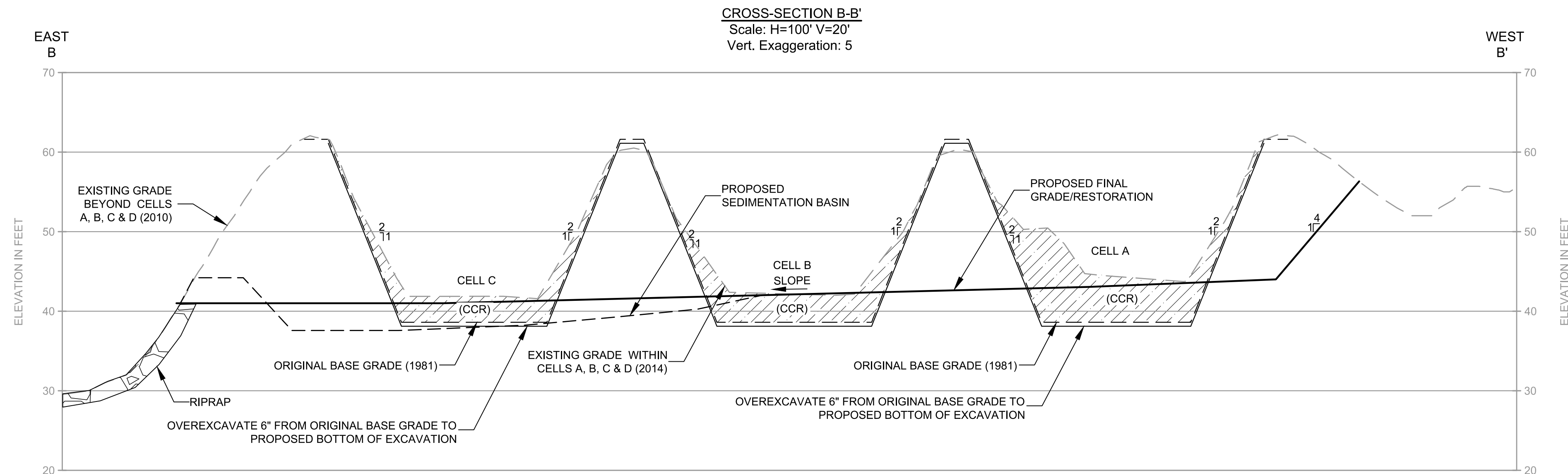
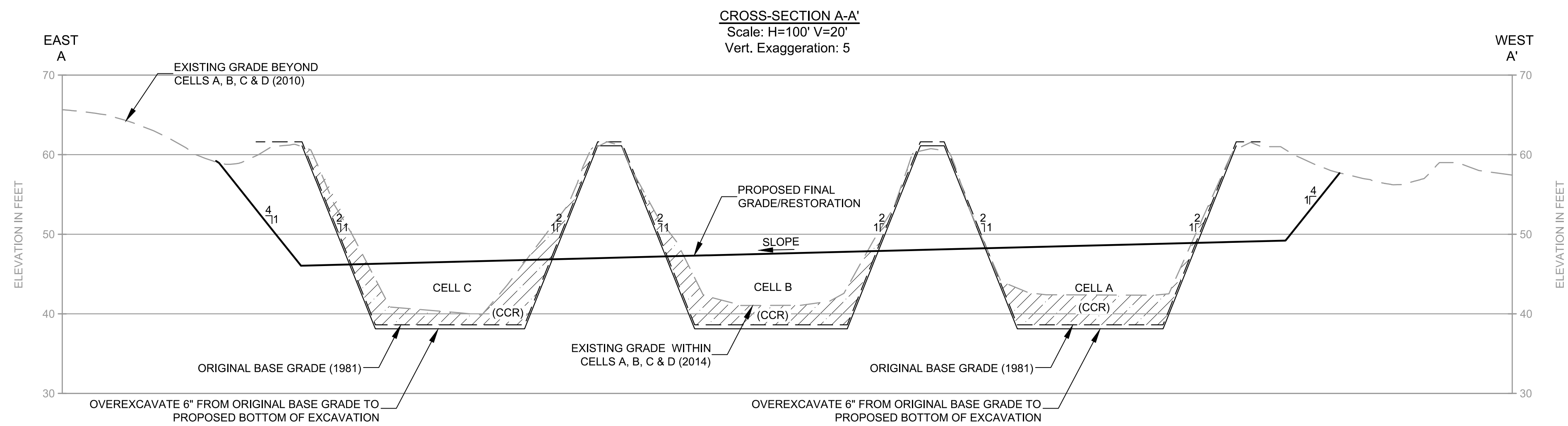
PROPOSED RESTORATION GRADES AND PHOTOVOLTAIC SYSTEM
CLOSURE DRAWINGS
 GEORGIA POWER COMPANY
 PLANT MCINTOSH ASH POND 1 (AP-1)
 EXISTING COAL COMBUSTION RESIDUALS (CCR)
 SURFACE IMPOUNDMENT
 EFFINGHAM, GEORGIA



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SCALE 1"=100'	DATE NOVEMBER 2018	SHEET 5 OF 11	

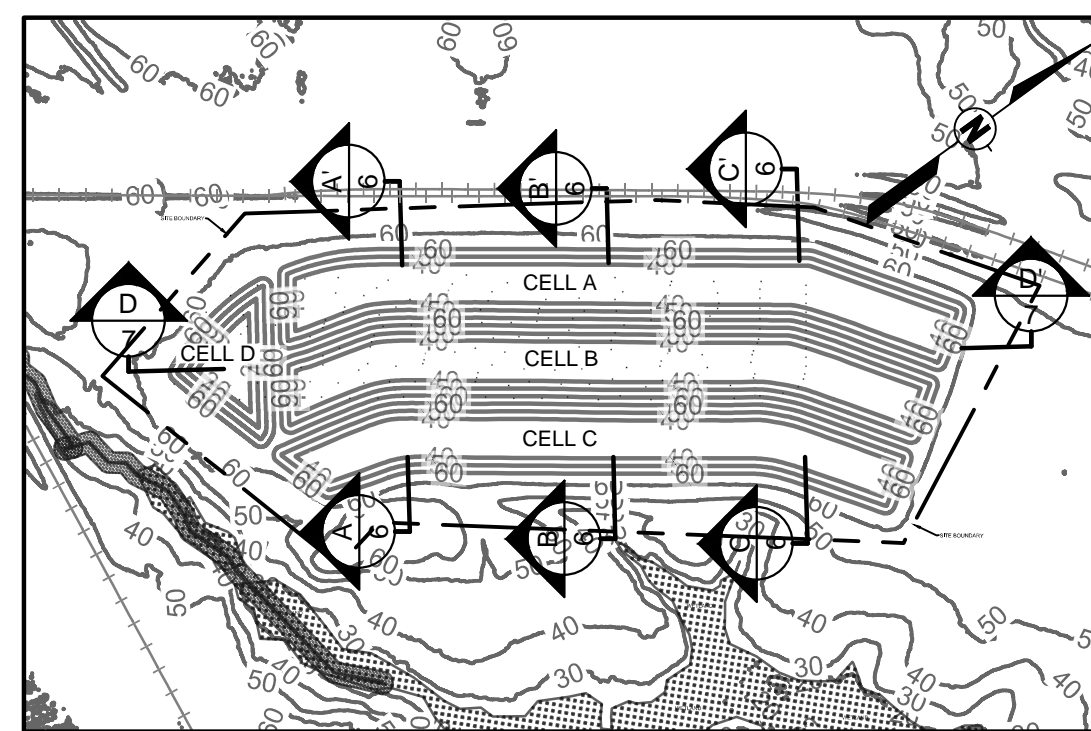
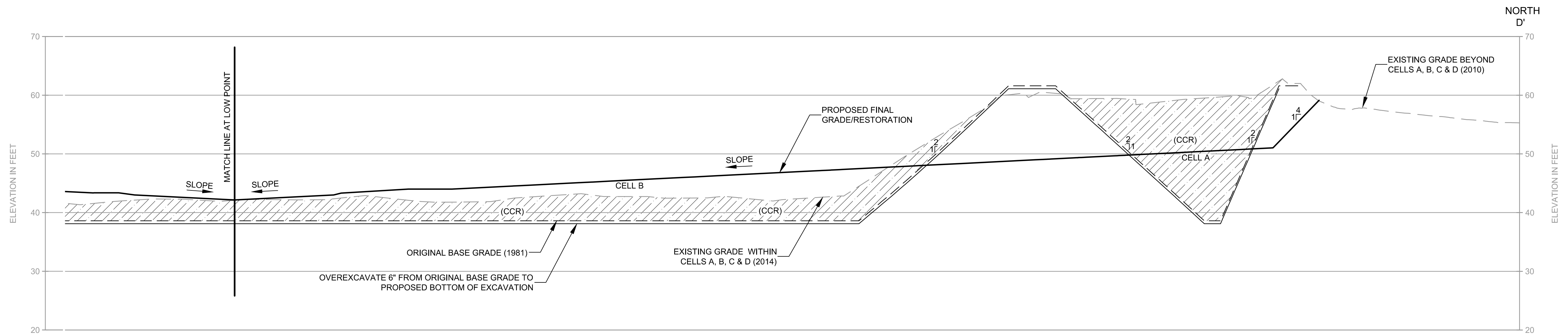
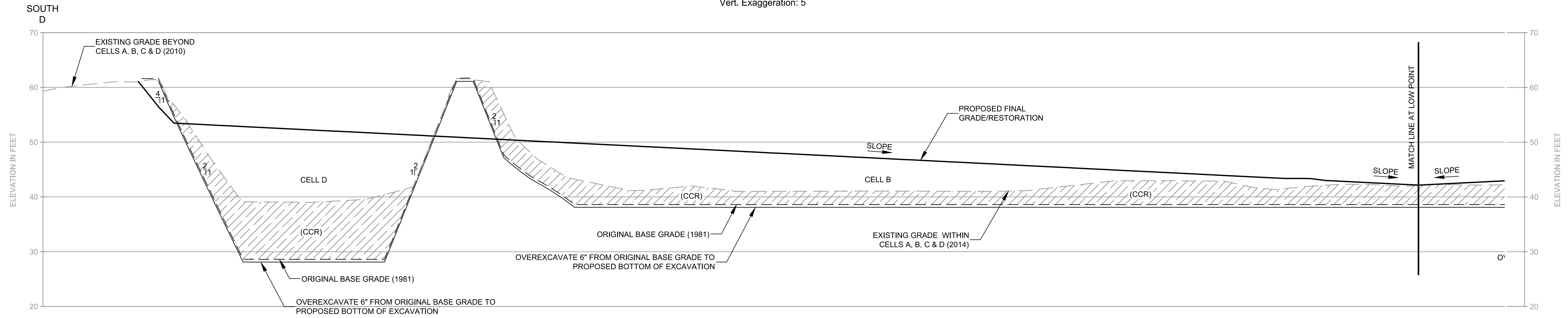


CROSS-SECTION INDEX
SCALE: 1"=500'




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 IMPROVEMENT			
EFFINGHAM, GEORGIA			
		1375 PEACHTREE STREET NE, SUITE A15 ATLANTA, GEORGIA 30309	
<small>(404) 592-0050 https://www.geiconsultants.com/</small>			
PROJ. NO.	1702944	DWG.	6
SCALE	HORIZ. 1"=100', VERT. 1"=20'	DATE	NOVEMBER 2018
		SHEET 6 OF 11	

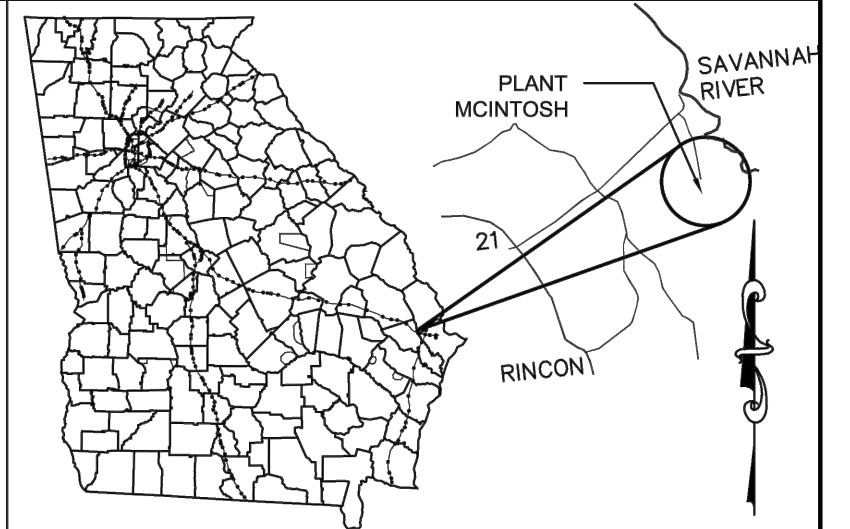
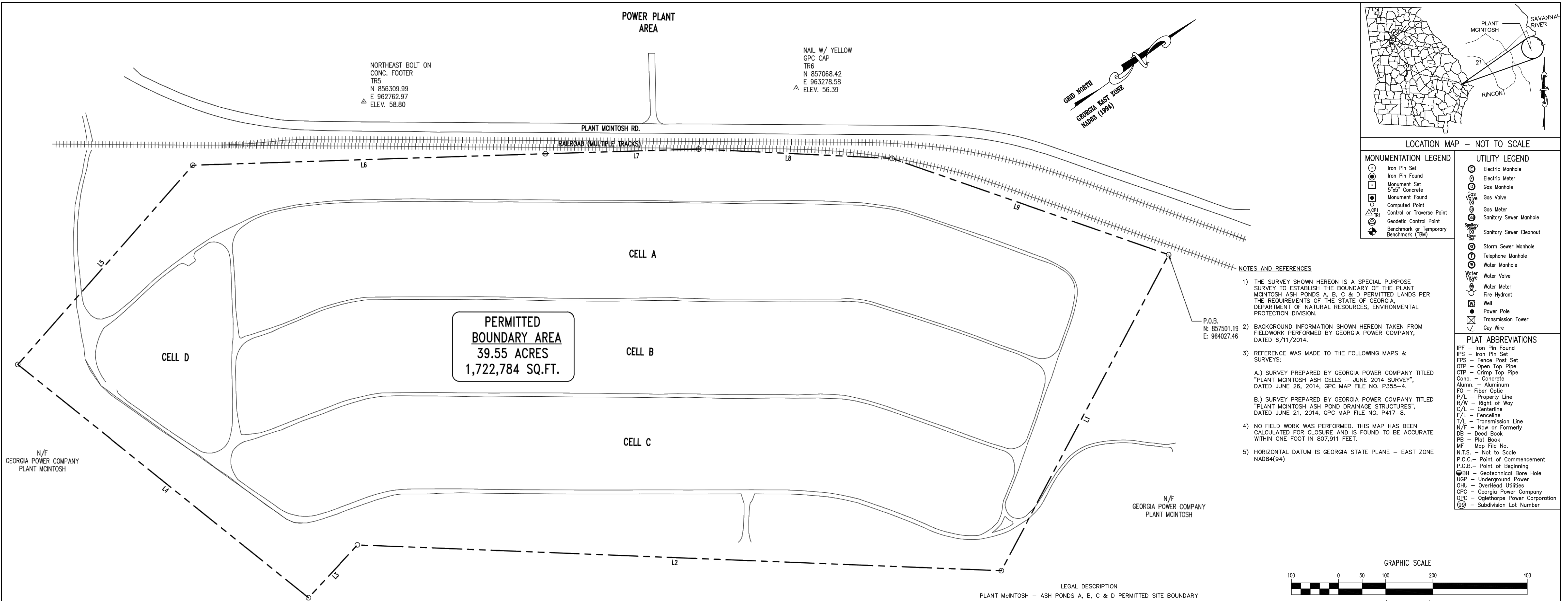
CROSS-SECTION D-D'
 Scale: H=100' V=20'
 Vert. Exaggeration: 5



CROSS-SECTION INDEX
 SCALE: 1"=500'



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		
 1375 PEACHTREE STREET NE, SUITE A15 ATLANTA, GEORGIA 30309		
(404) 592-0050 https://www.geiconsultants.com/		
PROJ. NO.	1702944	DWG. 7
SCALE	HORIZ. 1"=100', VERT. 1"=20'	EDIT
DATE	NOVEMBER 2018	SHEET 7 OF 11



MONUMENTATION LEGEND

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

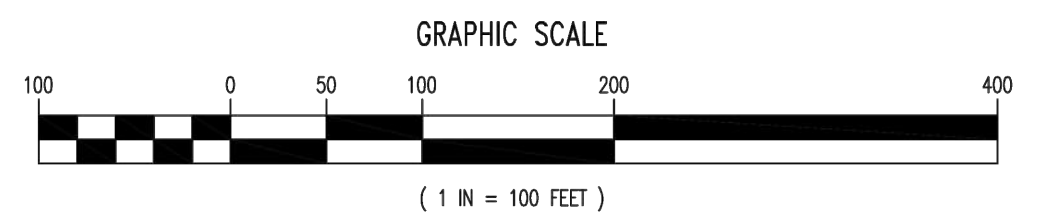
UTILITY LEGEND

- 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
- IFS - Iron Pin Set
- FFS - Fence Post Set
- OTP - Open Top Pipe
- CTP - Crimp Top Pipe
- Conc. - Concrete
- Alumm. - 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
- OPEC - Oglethorpe Power Corporation
- 99 - Subdivision Lot Number

- NOTES AND REFERENCES**
- 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.
 - BACKGROUND INFORMATION SHOWN HEREON TAKEN FROM FIELDWORK PERFORMED BY GEORGIA POWER COMPANY, DATED 6/11/2014.
 - 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.
 - 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.
 - HORIZONTAL DATUM IS GEORGIA STATE PLANE - EAST ZONE NAD84(94)



LINE TABLE

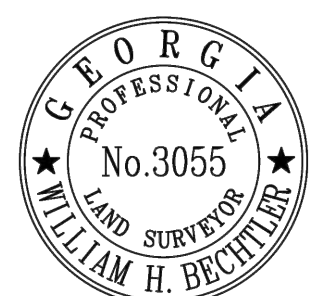
LINE	BEARING	DIST
L1	S26°07'28"E	757.87
L2	S38°14'23"W	1366.22
L3	S11°07'46"E	152.92
L4	S74°39'27"W	789.87
L5	N12°45'52"W	562.20
L6	N34°04'31"E	748.09
L7	N34°13'09"E	325.56
L8	N38°41'54"E	410.42
L9	N55°07'39"E	621.03

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.

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.



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 13-6-67.

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



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

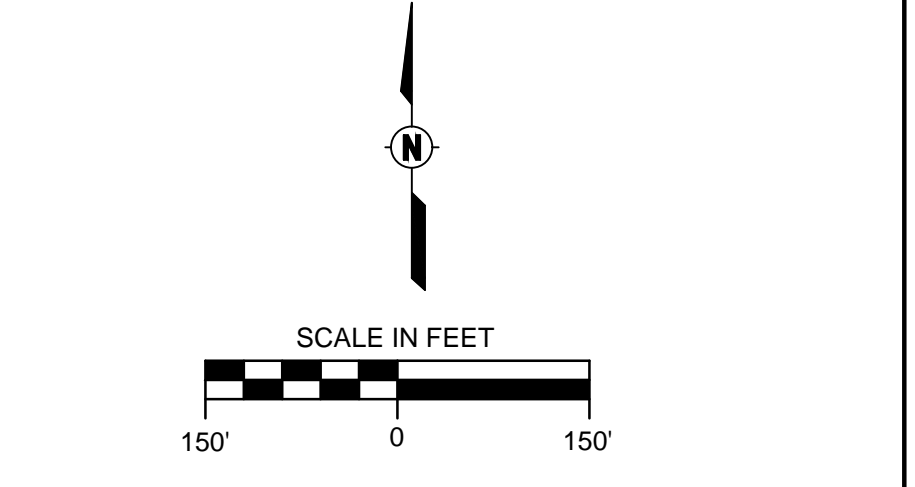
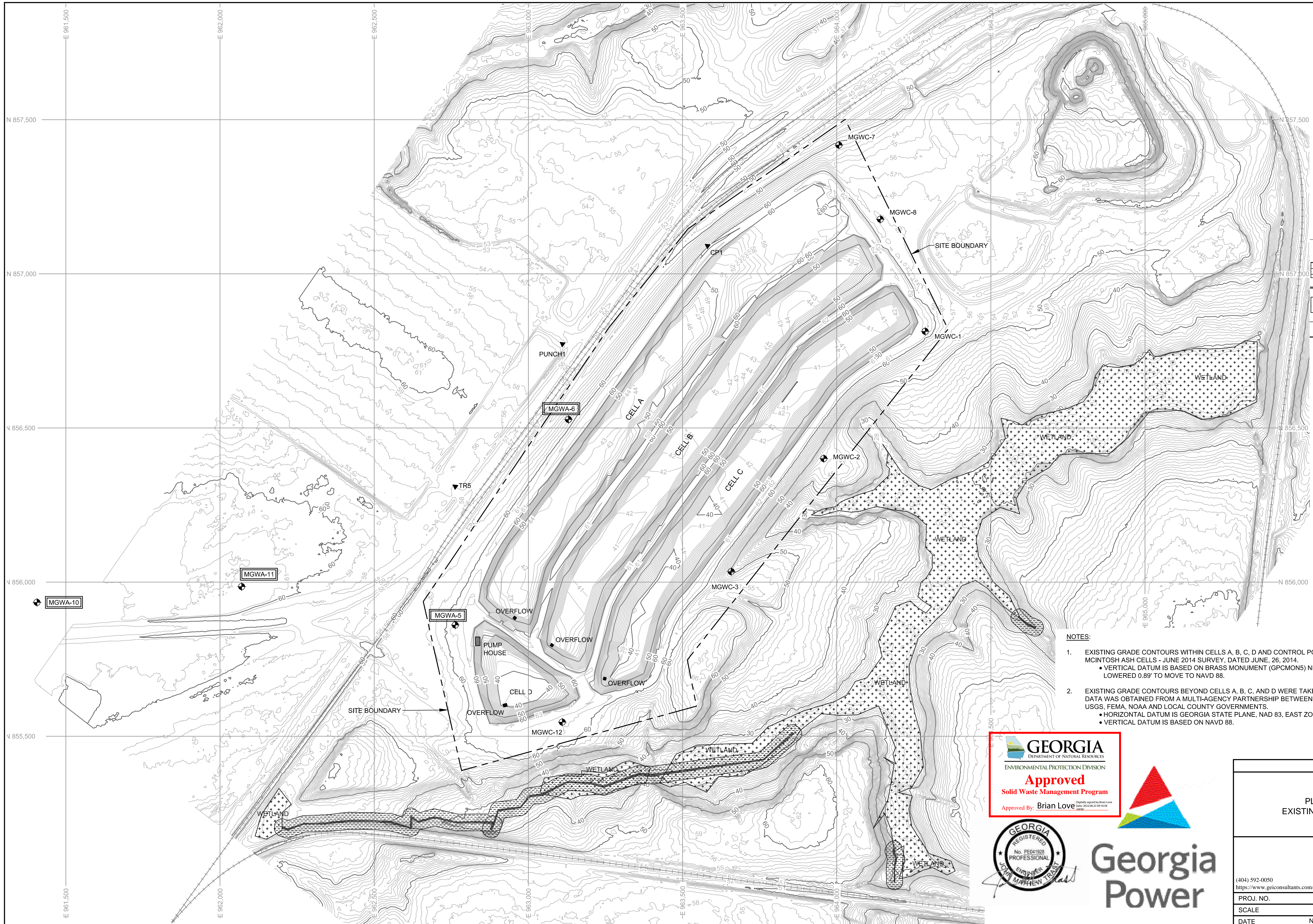
DR.	YJT	TR.	Checked
SCALE	DATE		
1" = 100'	NOVEMBER 6, 2018		
DRAWING NUMBER			
P470-7			
Sheet 1 of 1			

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

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



LEGEND

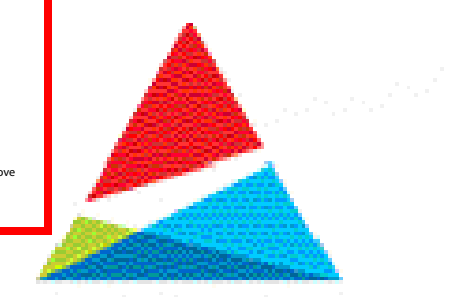
- RAILROAD (APPROXIMATE)
- BENCHMARK/CONTROL MONUMENT
- STREAM BUFFER
- STREAM
- WETLAND
- EXISTING GROUND SURFACE CONTOUR
- SITE BOUNDARY
- MGWC-3 DOWNGRADIENT MONITORING WELL
- MGWA-11 UPGRADIENT MONITORING WELL

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	GPCM05

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 (GPCM05) 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 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



1375 PEACHTREE STREET NE, SUITE A15
 ATLANTA, GEORGIA 30309

(404) 592-0050 https://www.geiconsultants.com/			
PROJ. NO.	1702944	DWG.	9
SCALE	1"=150'	EDIT	
DATE	NOVEMBER 2018	SHEET 9 OF 11	

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			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			A travellway constructed as part of a construction plan including access roads, subsection 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			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			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			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			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			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			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 inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN			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			A buoyant device that releases/trains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BERM			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

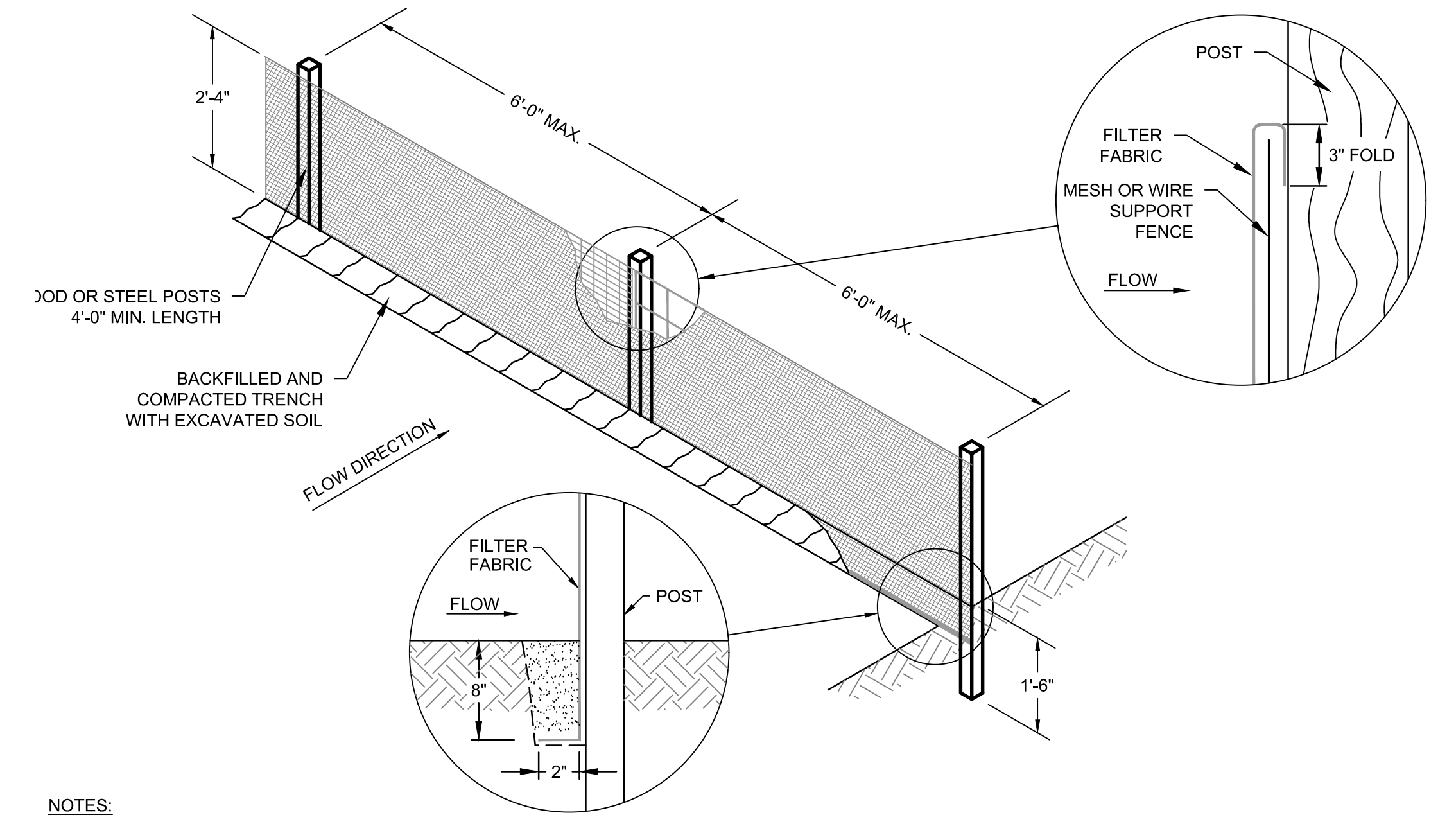
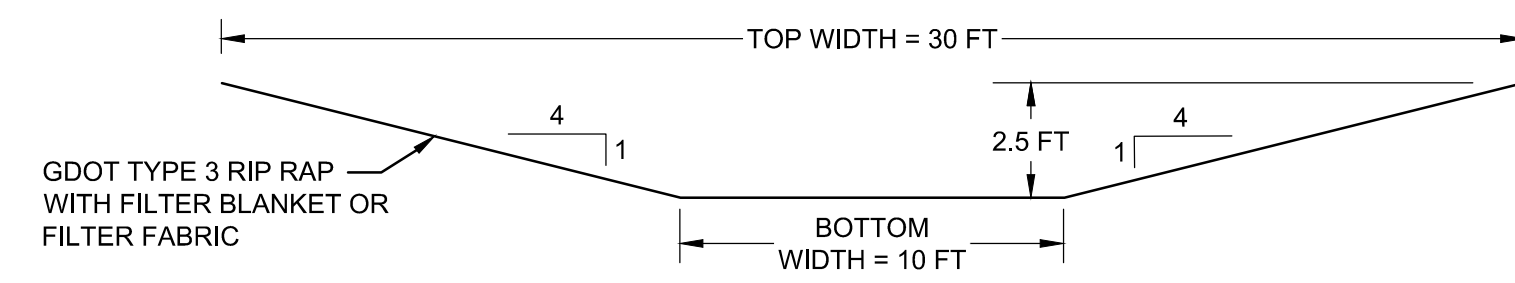
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY STREAM CROSSING			A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAIN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN			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			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			To protect desirable trees from injury during construction activity.
Vt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			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)			Planting vegetation on dunes that are denuded, artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)			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)			Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM. SEEDING)			Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SOONER)			A permanent vegetative cover using sods on highly erodible or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS			Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fl-Co	FLOCCULANTS AND COAGULANTS			Substance formulated to assist in the solid/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (WITH VEGETATION)			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			A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKERS AND BINDERS			Substance used to anchor straw or hay mulch by causing the organic material to bind together.

Ch 10 ARMORED STORMWATER CONVEYANCE CHANNEL

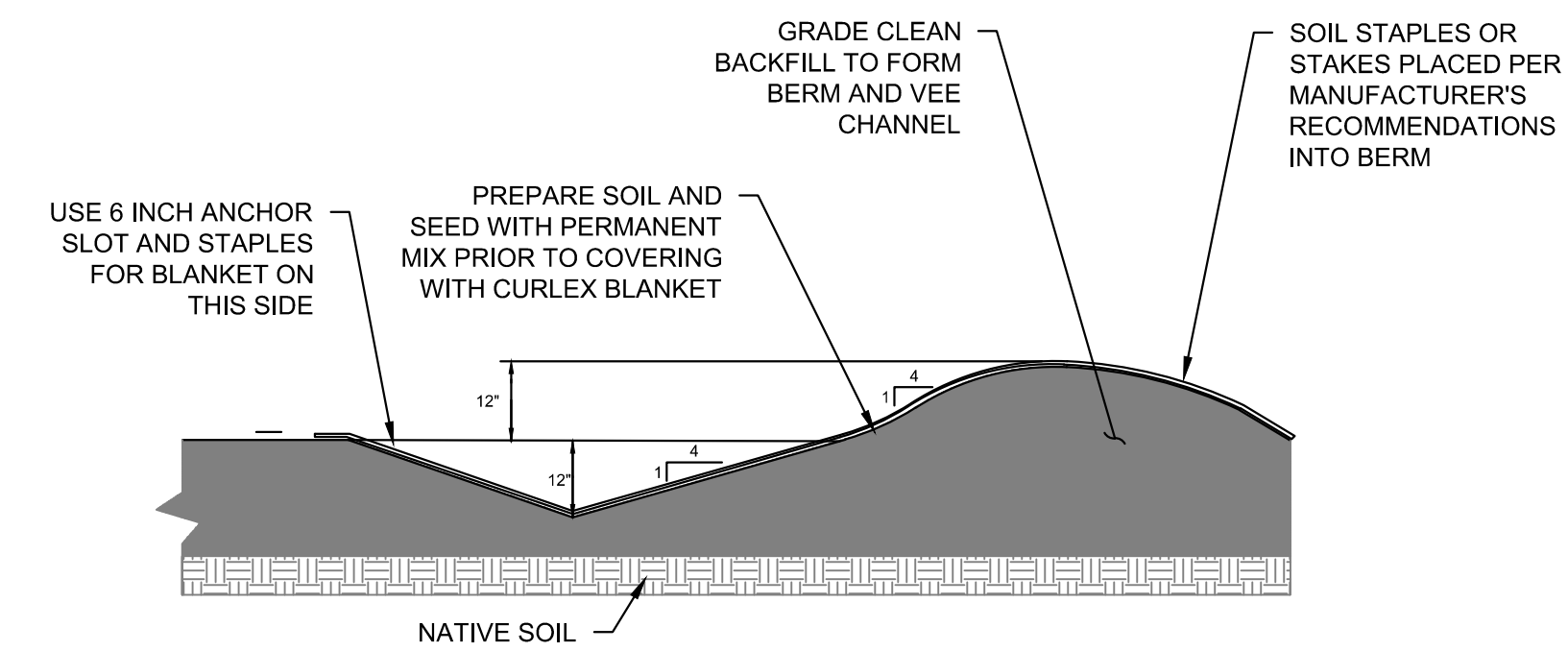
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- NOTES:
- SILT FENCE TO BE INSTALLED PRIOR TO LAND DISTURBANCE AND MAINTAINED THROUGHOUT CONSTRUCTION.
 - FILTER FABRIC SHALL BE SECURELY ATTACHED TO POSTS WITH STAPLES, WIRES OR NAILS.
 - MINIMUM SPLICE OVERLAP SHALL BE 2'-0" WITH A POST AT EACH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

Sd1 10 TYPICAL SILT FENCE - NON-SENSITIVE AREAS

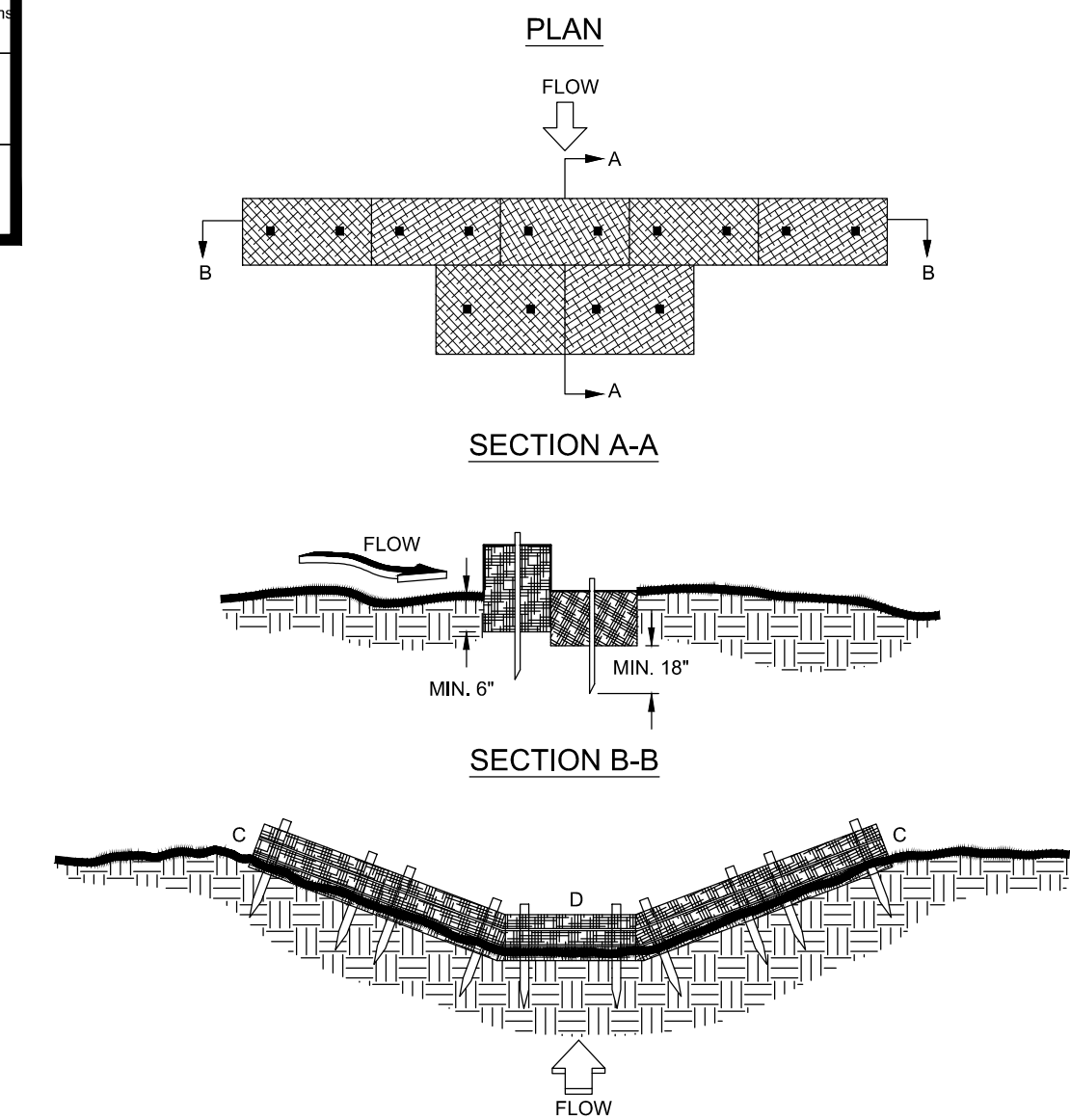
SCALE: NTS



- NOTES:
- ALL TREES, STUMPS, BRUSH, ROOTS, WEEDS, AND OTHER OBJECTIONABLE MATERIALS SHOULD BE REMOVED FROM THE WORK AREA.
 - 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.
 - BERMS SHOULD BE MACHINE COMPACTED TO PREVENT UNEQUAL SETTLEMENT THAT WOULD CAUSE DAMAGE IN THE COMPLETED DIVERSION.
 - CHANNELS AND BERMS WITHIN DIVERSION SHALL BE COVERED WITH EROSION CONTROL MATTING AS SHOWN AND SPECIFIED.

Di 10 TYPICAL DIVERSION BERM

SCALE: NTS

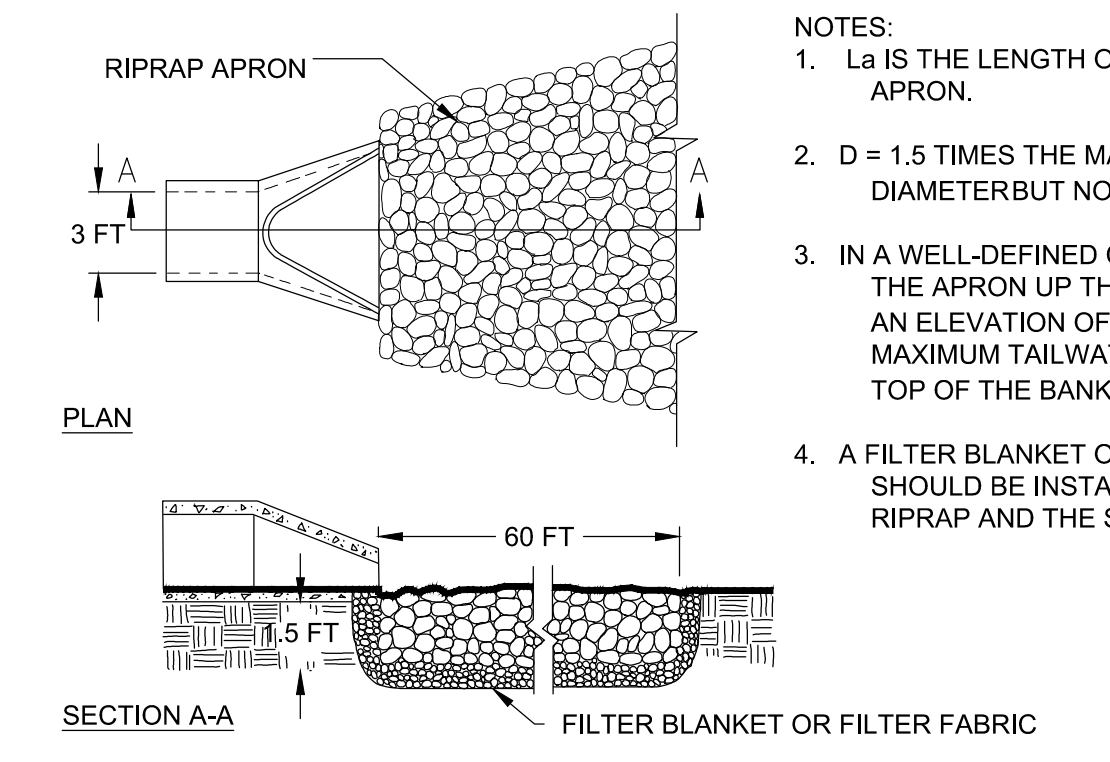


- NOTES:
- BALES SHOULD BE BOUND WITH WIRE OR NYLON STRING AND SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
 - REMOVE #4 REBAR AFTER STRAW BALES ARE NO LONGER IN PLACE.
 - POINT C OF SECTION B-B SHOULD ALWAYS BE HIGHER THAN POINT D.

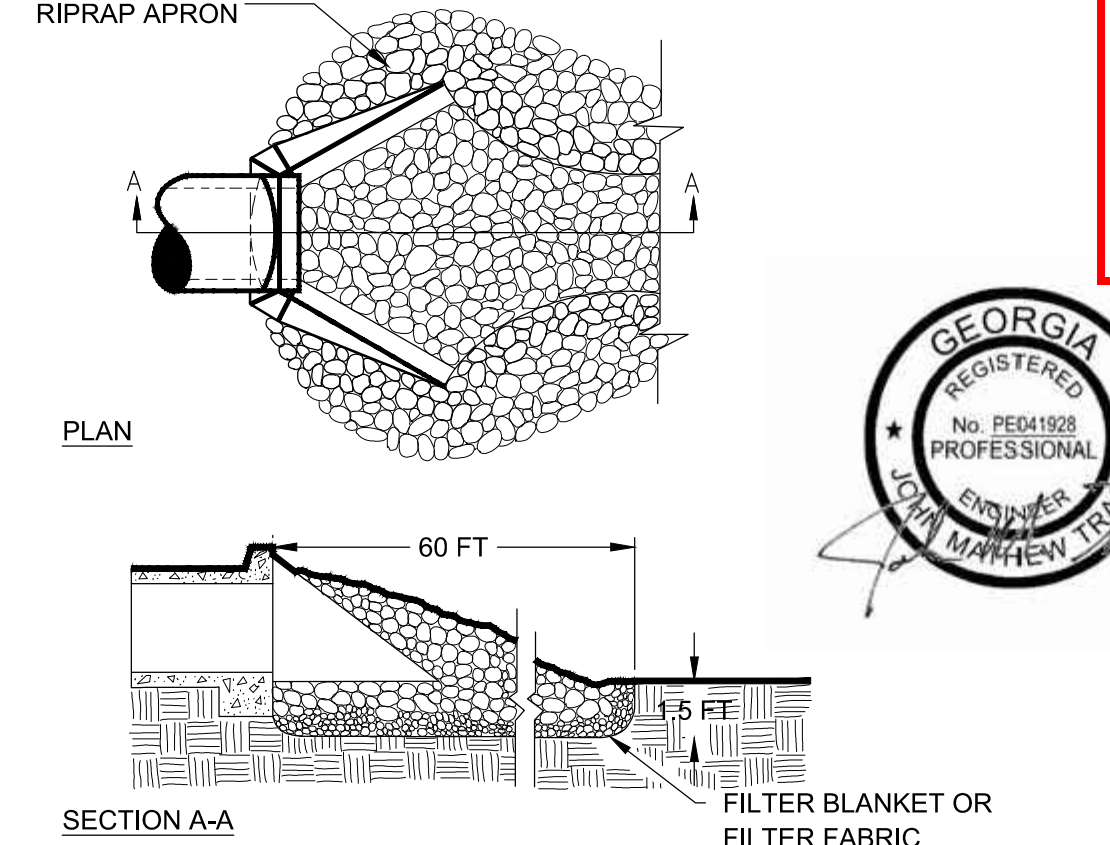
Cd 10 TYPICAL STRAW BALE CHECK DAM

SCALE: NTS

PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL

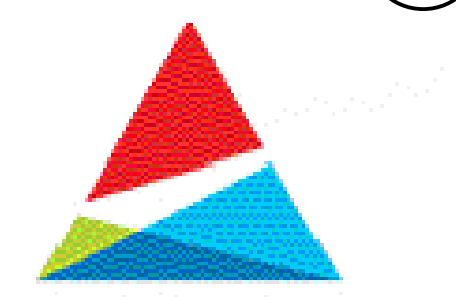


PIPE OUTLET TO WELL DEFINED CHANNEL

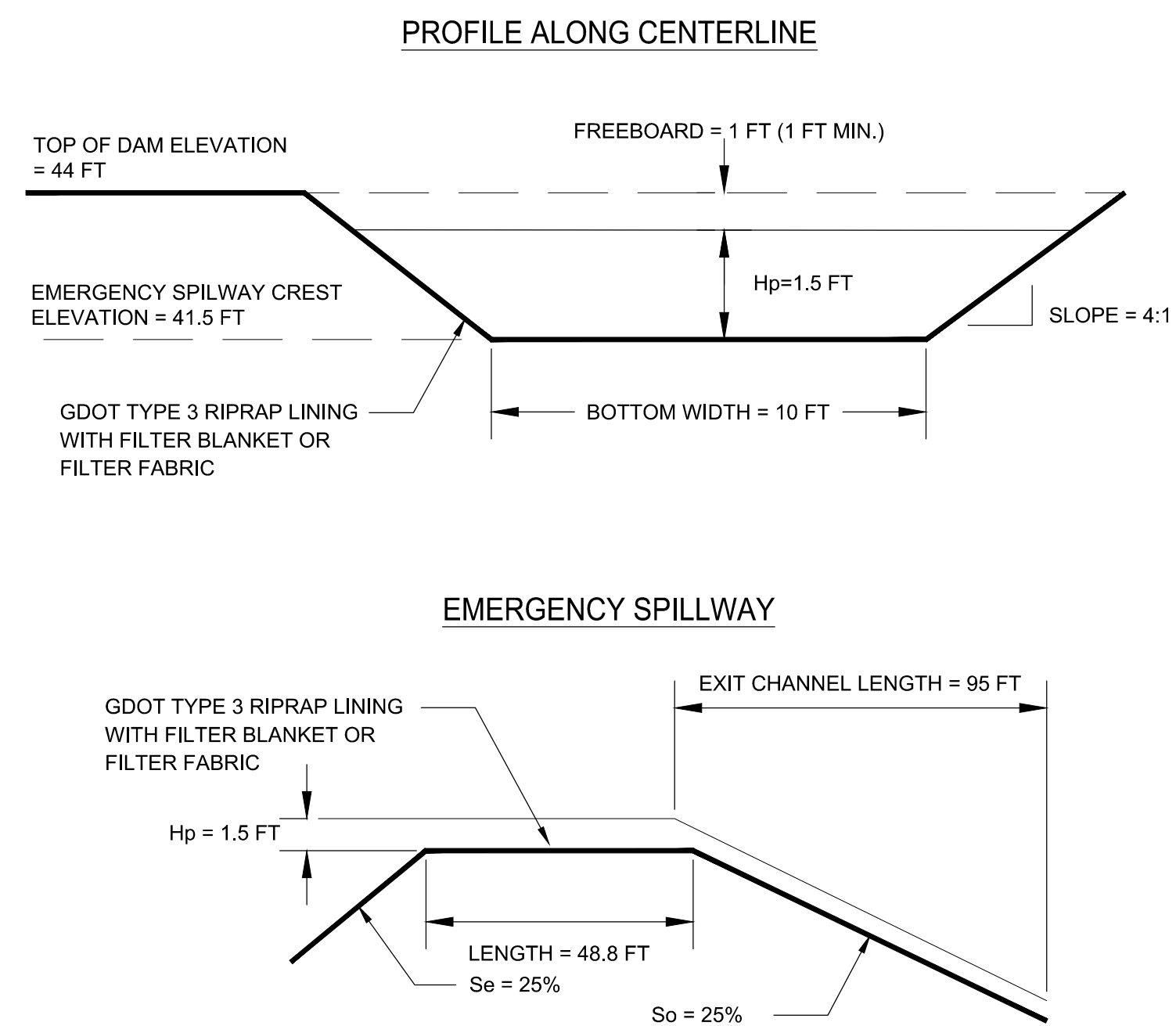


St 10 RIPRAP OUTLET PROTECTION

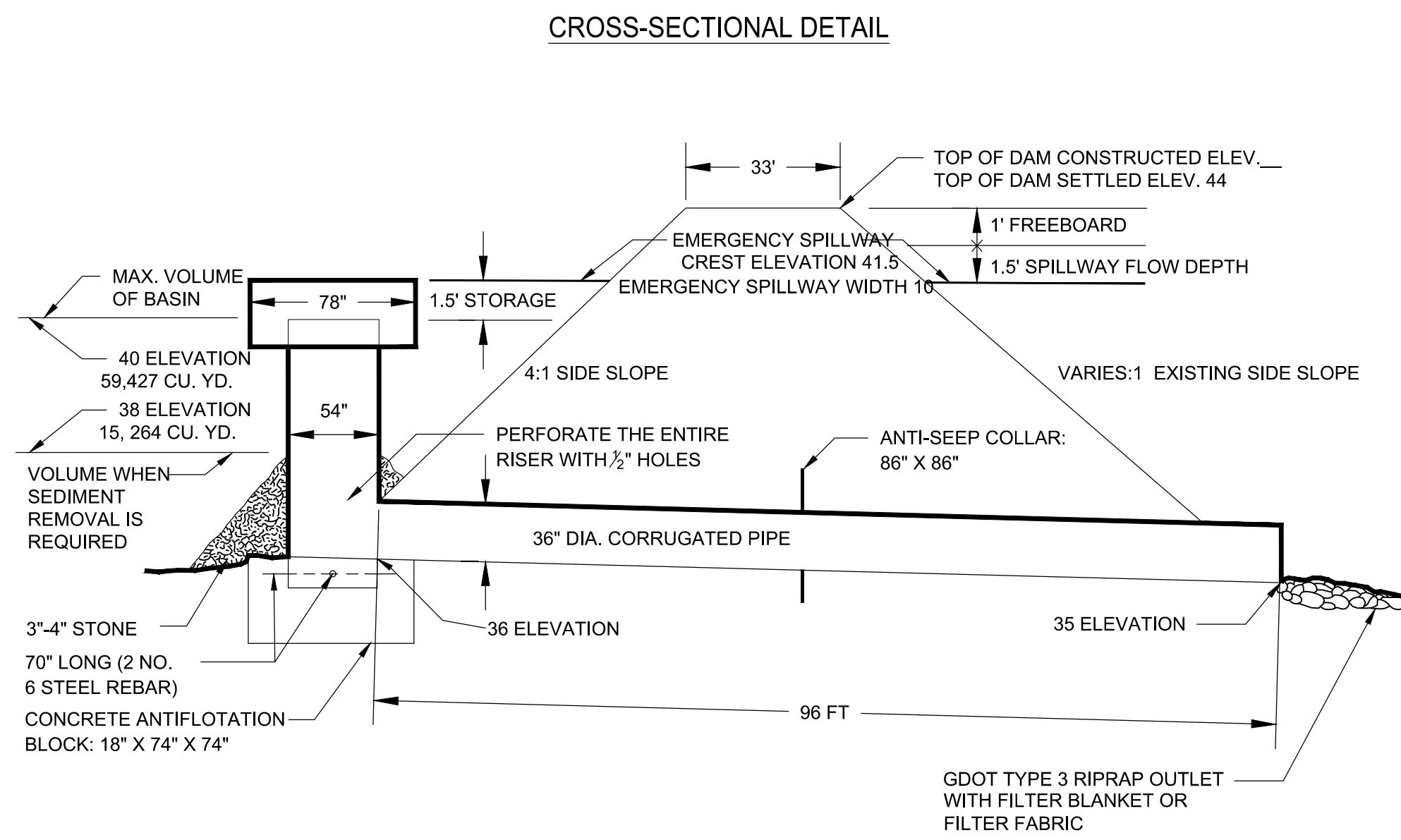
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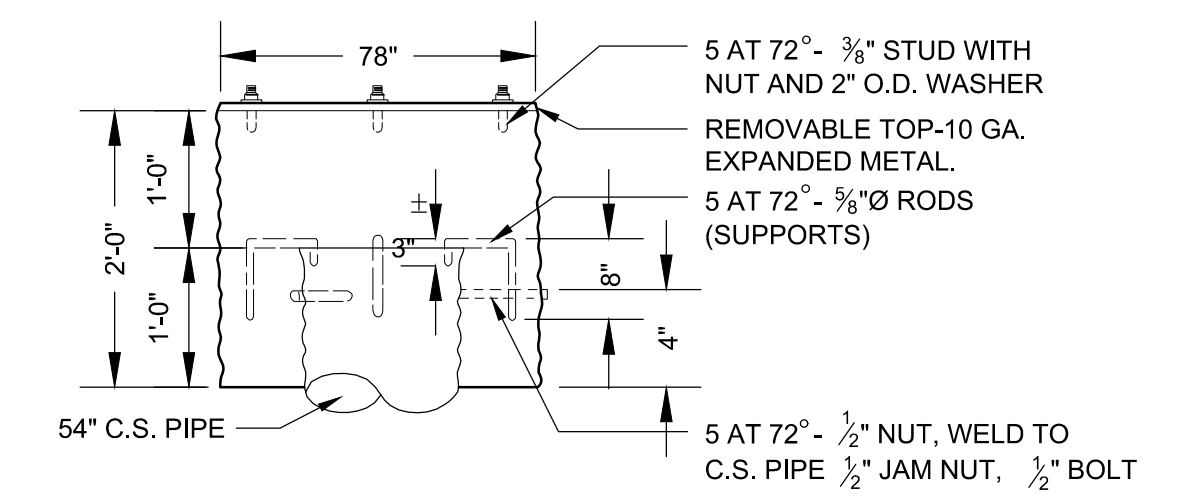
DETAILS		
CLOSURE DRAWINGS		
GEORGIA POWER COMPANY		
PLANT MCINTOSH ASH POND 1 (AP-1)		
EXISTING COAL COMBUSTION RESIDUALS (CCR)		
SURFACE IMPOUNDMENT		
EFFINGHAM, GEORGIA		
GEI Consultants		
1375 PEACHTREE STREET NE, SUITE A15 ATLANTA, GEORGIA 30309		
(404) 592-0050 https://www.geiconsultants.com/	PROJ. NO. 1702944	DWG. 10
SCALE NONE	DATE NOVEMBER 2018	EDIT
SHEET 10 OF 11		



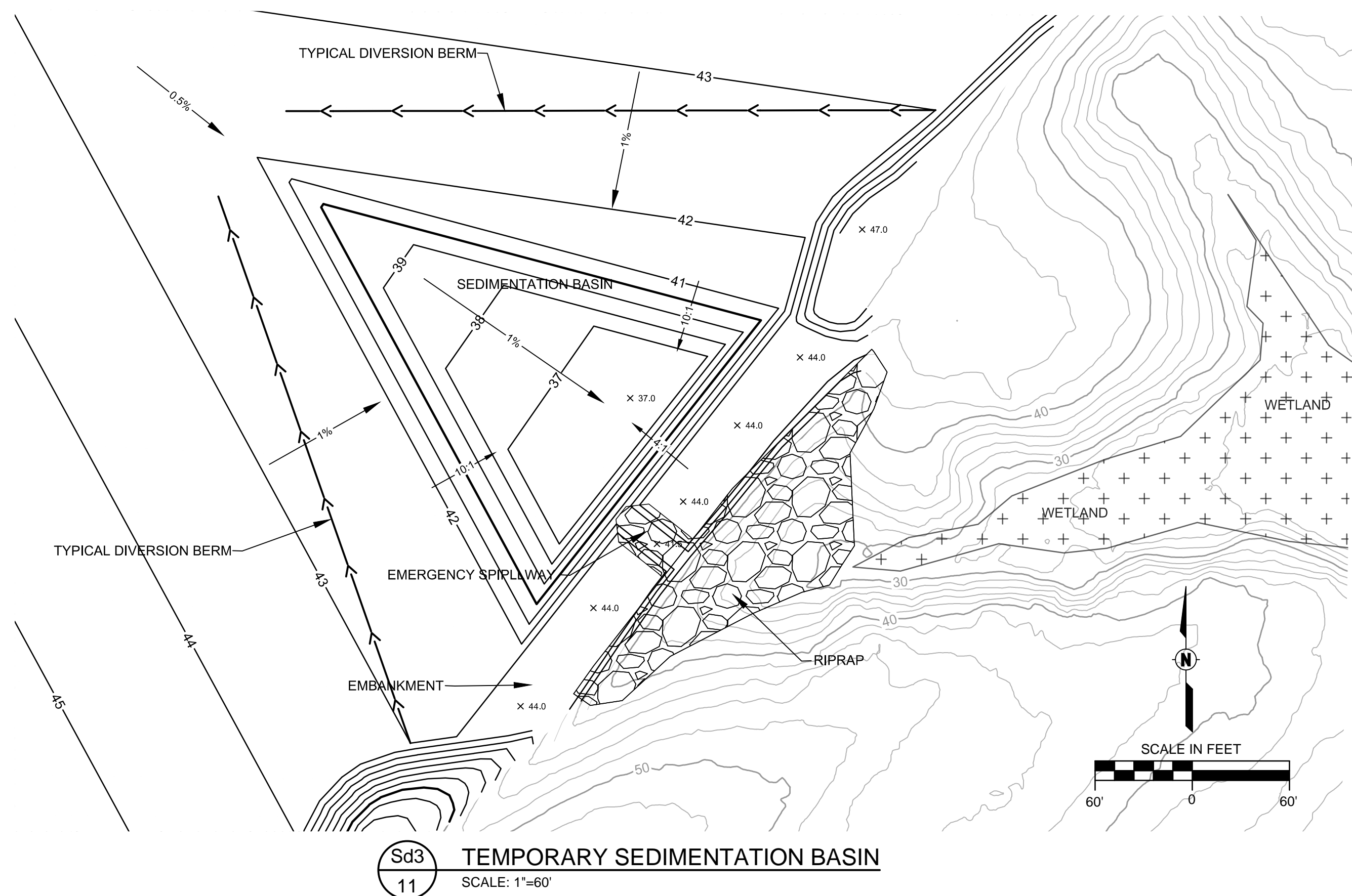
Sd3 CROSS SECTIONAL DETAIL OF EMERGENCY SPILLWAY
11 SCALE: NTS



Sd3 TEMPORARY SEDIMENTATION BASIN EMBANKMENT
11 SCALE: NTS




Sd3 TYPICAL TRASHRACK
11 SCALE: NTS



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



DETAILS		
CLOSURE DRAWINGS GEORGIA POWER COMPANY PLANT MCINTOSH ASH POND 1 (AP-1) EXISTING COAL COMBUSTION RESIDUALS (CCR) SURFACE IMPOUNDMENT EFFINGHAM, GEORGIA		
 1375 PEACHTREE STREET NE, SUITE A15 ATLANTA, GEORGIA 30309		
<small>(404) 592-0050 https://www.geiconsultants.com/ </small>		
PROJ. NO.	1702944	DWG. 11
SCALE	NONE	EDIT
DATE	NOVEMBER 2018	SHEET 11 OF 11