

CLOSURE DRAWINGS

GEORGIA POWER COMPANY

PLANT MCINTOSH ASH POND 1 (AP-1)

EXISTING COAL COMBUSTION RESIDUALS (CCR) SURFACE IMPOUNDMENT

5 YEAR PERMIT REVIEW

EFFINGHAM, GEORGIA

OWNER/OPERATOR

GEORGIA POWER COMPANY
241 RALPH MCGILL BLVD, NE
ATLANTA, GA 30308

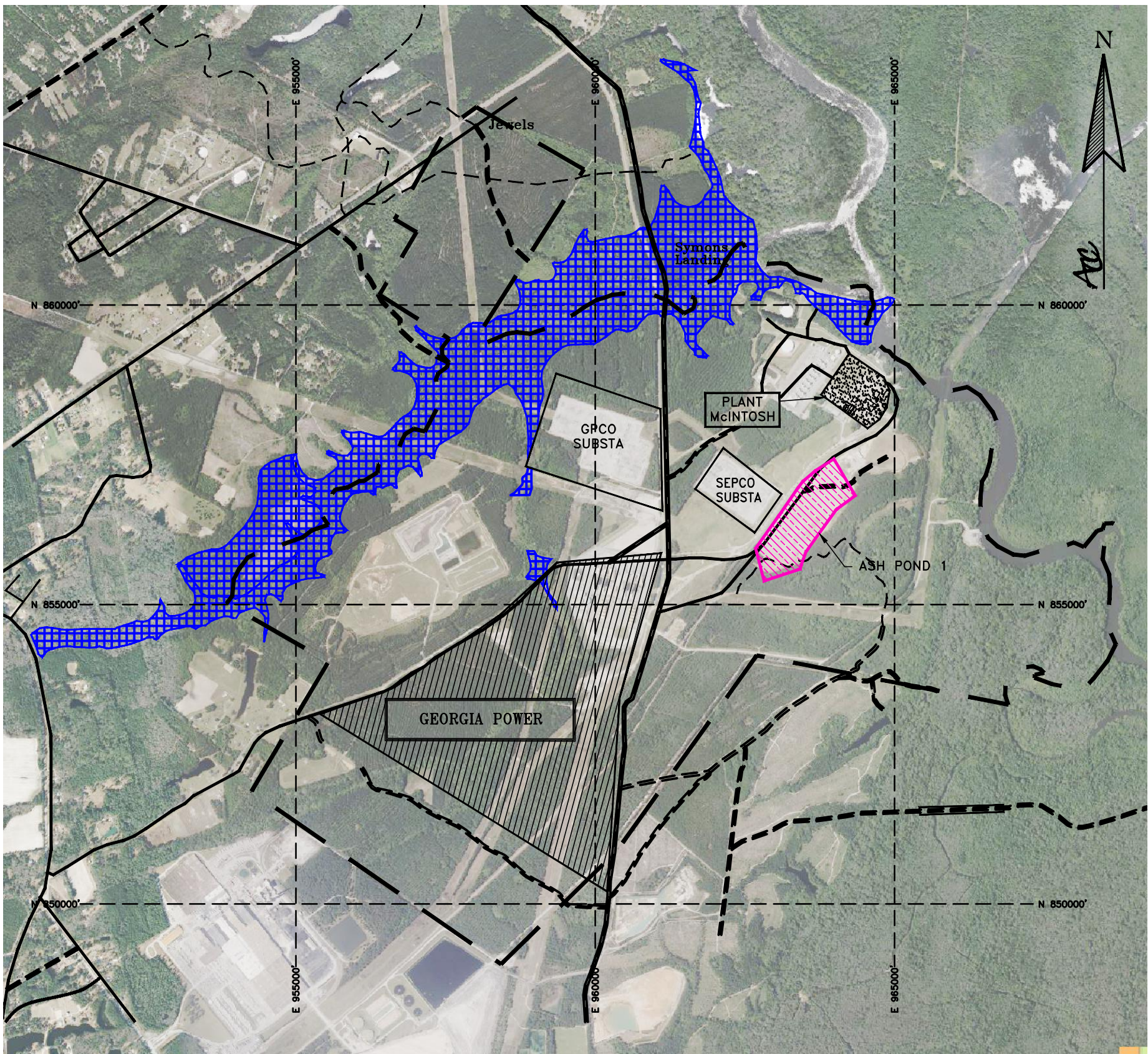
RESPONSIBLE OFFICIAL

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

NOTE:

THE ORIGINAL DESIGN AND OPERATIONAL (D&O) PLANS WERE BY GEI CONSULTANTS AS APPROVED BY GEORGIA EPD AUGUST 23, 2022. THIS SET OF PLANS BY ATLANTIC COAST CONSULTING (ACC) HAS BEEN PREPARED TO SATISFY THE 5 YEAR SOLID WASTE PERMIT REVIEW AND RELIED ON THE ORIGINAL DESIGN AND THE LATEST D&O PLANS APPROVED BY GEORGIA EPD. THIS D&O SET HAS BEEN REVISED TO SHOW CURRENT SITE CONDITIONS AND SATISFY THE 5 YEAR SOLID WASTE PERMIT REVIEW.

AUGUST 2024



PROJECT SITE LOCATION
NOT TO SCALE

ACC

Atlantic Coast Consulting, Inc.
11545 WILLS ROAD, STE 100, ALPHARETTA, GA 30009
770-594-5998

INDEX TO DRAWINGS

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4	REV 1	APPROXIMATE BOTTOM OF EXCAVATION GRADES
5	REV 3	PROPOSED RESTORATION GRADES AND PHOTOVOLTAIC SYSTEM
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7	REV 2	CROSS-SECTION D-D'
8	REV 1	PLAT & LEGAL DESCRIPTION
9	REV 1	COMPLIANCE MONITORING NETWORK
10	REV 1	DETAILS
11	REV 1	DETAILS



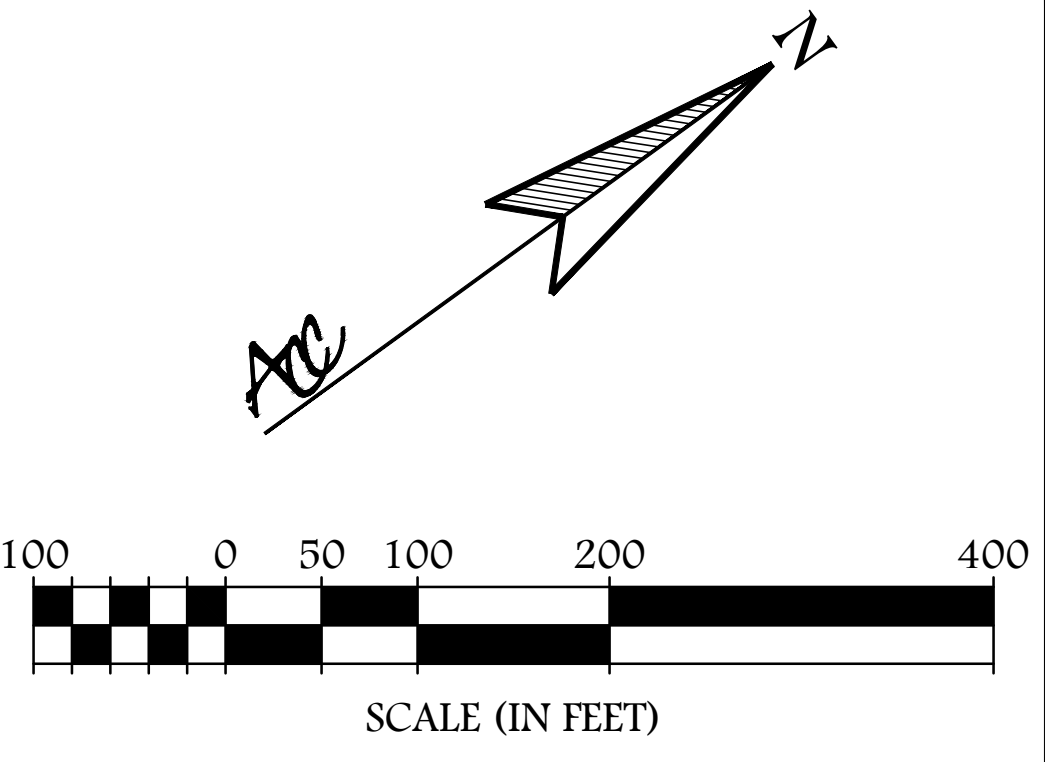
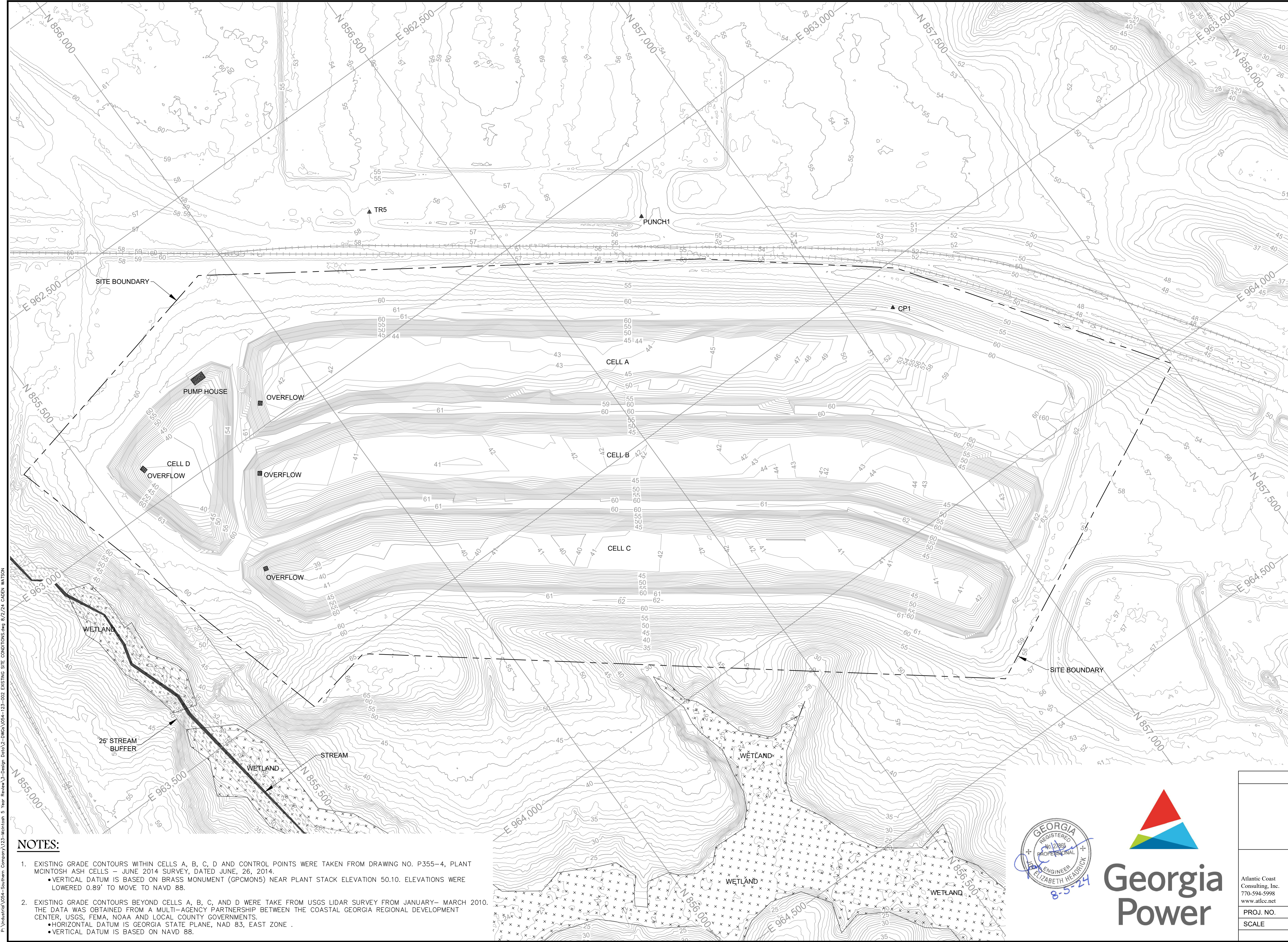
P:\Industrial\054-Southern Company\123-McIntosh 5 Year Review\3-Design Data\3-DWG\054-123-001 LEGEND.dwg 8/2/24 CUDEN WATSON

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, AEROGRIID, 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.



LEGEND			
CLOSURE DRAWINGS			
GEORGIA POWER PLANT MCINTOSH ASH POND 1 (AP-1) EXISTING COAL COMBUSTION RESIDUALS (CCR) SURFACE IMPOUNDMENT 5 YEAR PERMIT REVIEW EFFINGHAM, GEORGIA			
Atlantic Coast Consulting, Inc. 770-594-5998 www.atlcc.net		11545 Wills Road, Ste 100 Alpharetta, GA 30009	
PROJ. NO.	I054-123	DWG.	1
SCALE	NONE AUGUST 2024	EDIT	08/05/24
SHEET 1 OF 11			



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

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

Approved
Solid Waste Management Program

Approved 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.

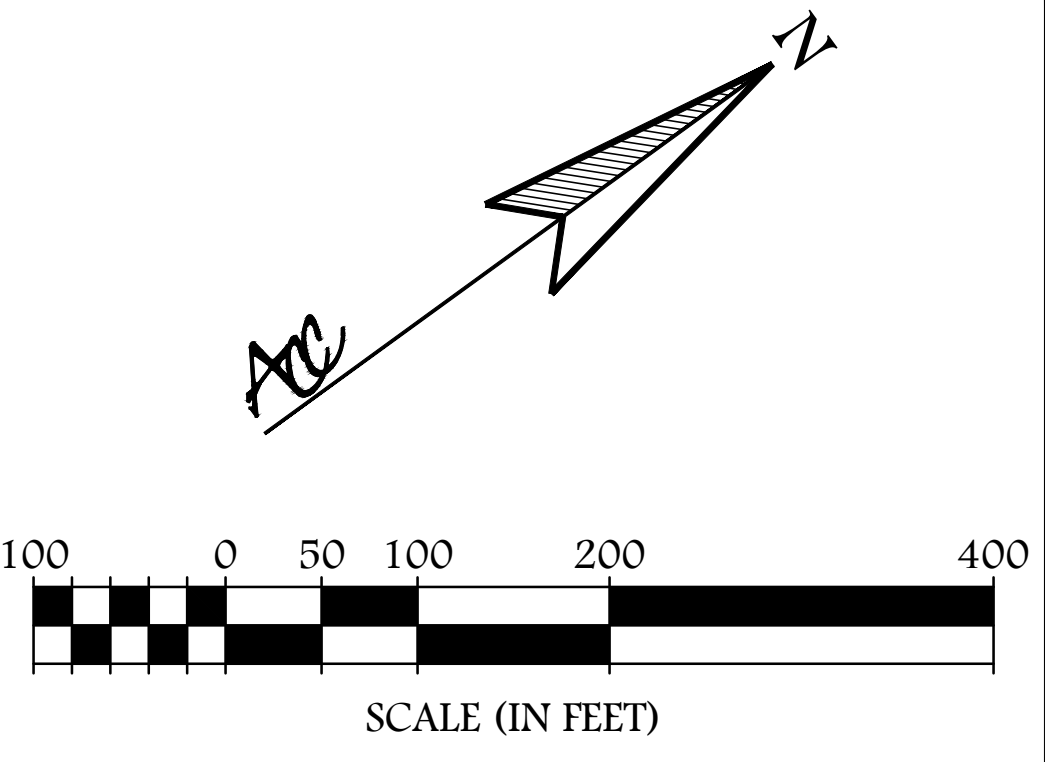
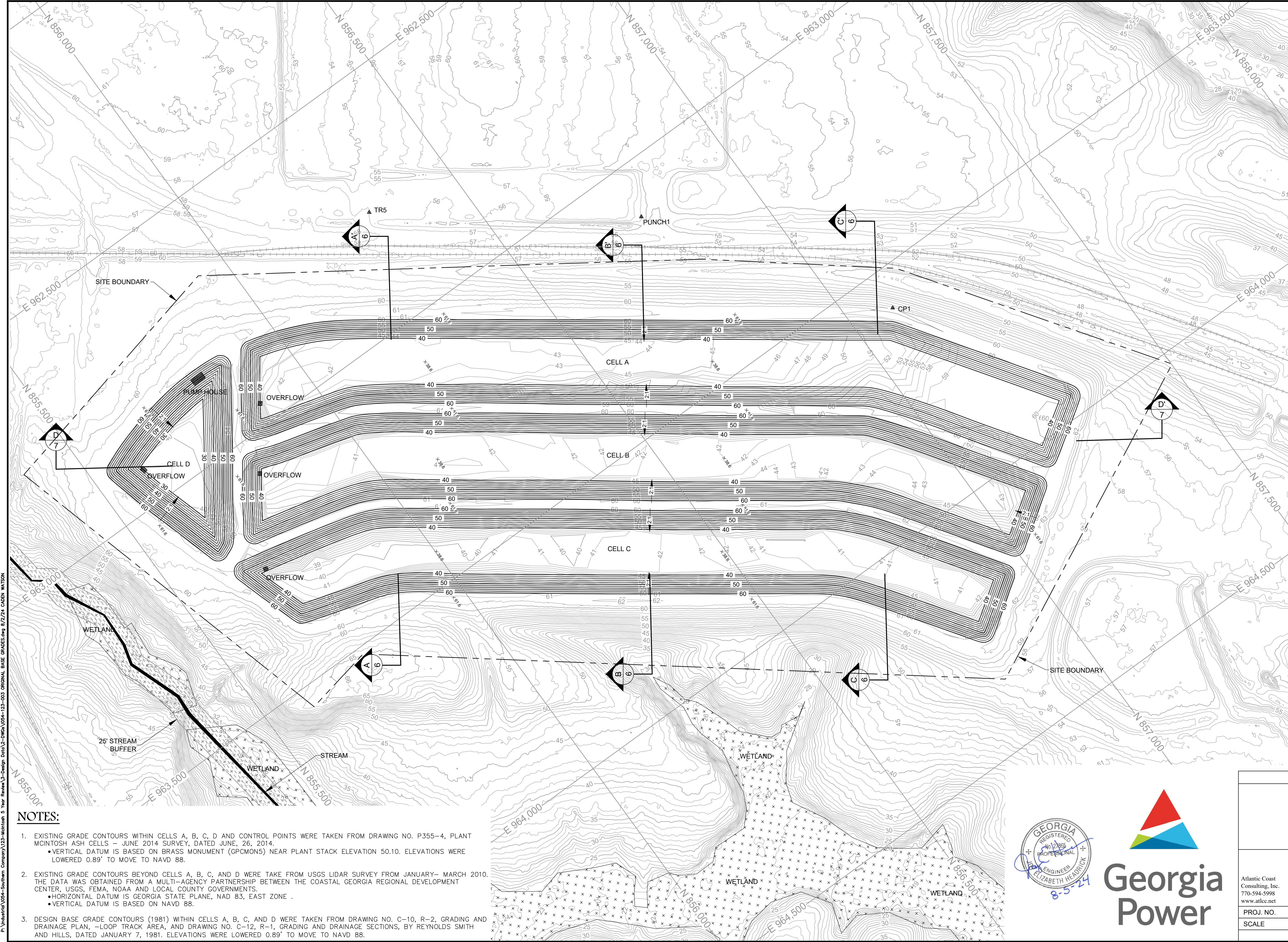
8/23/2018

NOTES:

- 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 PLANT MCINTOSH ASH POND 1 (AP-1) EXISTING COAL COMBUSTION RESIDUALS (CCR) SURFACE IMPOUNDMENT 5 YEAR PERMIT REVIEW EFFINGHAM, GEORGIA				
Atlantic Coast Consulting, Inc. 770-594-5998 www.atcc.net				
11545 Wills Road, Ste 100 Alpharetta, GA 30009				
PROJ. NO.	1054-123	DWG.	2	EDIT 08/05/24
SCALE	1"=100'			
AUGUST 2024		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

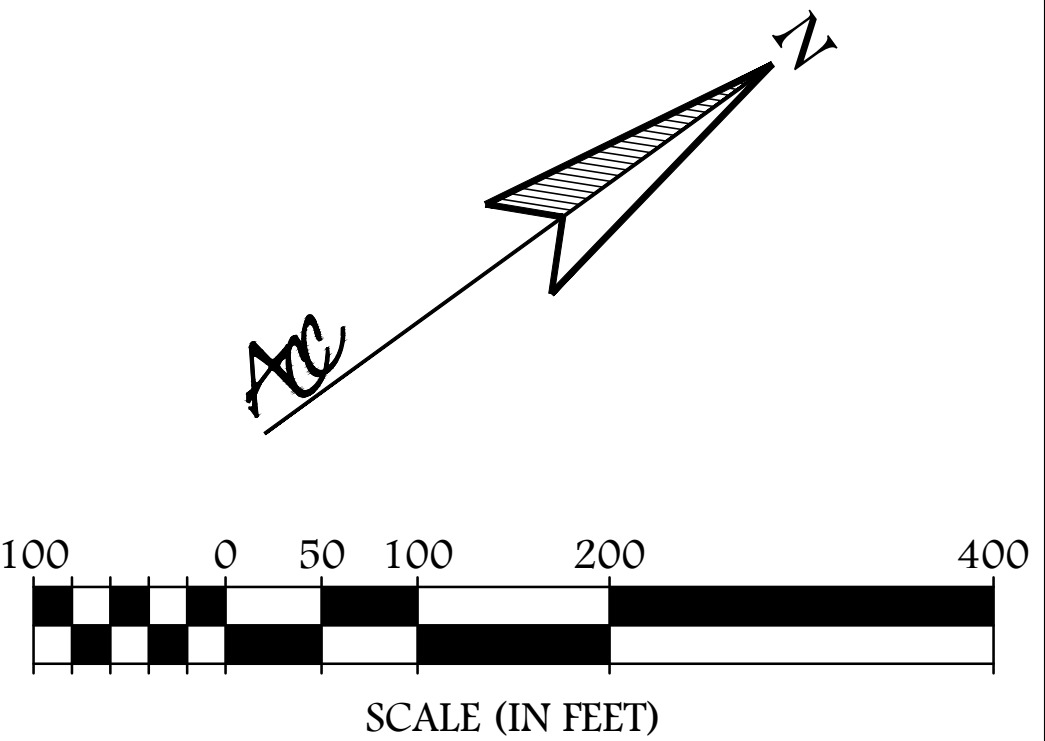
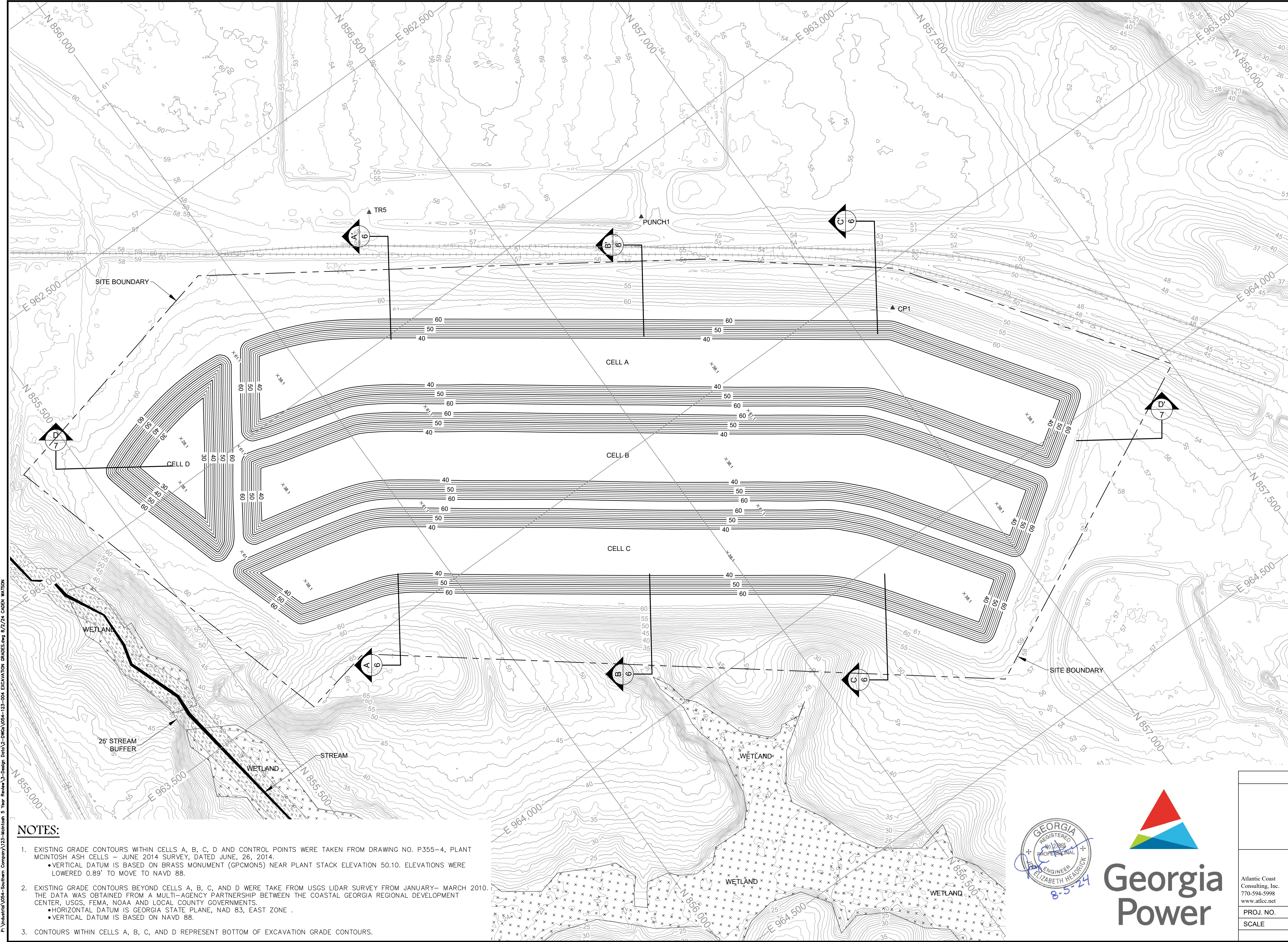
Notes:
1. CP2, TR1, TR2 and TR6 were not recovered.
2. Vertical datum is NAVD88 based on reference National Geodetic Survey monument B213, Rincon, Georgia.

P:\Industry\054-Southern Company\123-McIntosh 5 Year Review\3-Design Data\3-DWG\054-123-003 ORIGINAL BASE GRADES.dwg 8/2/24 CAIEN WATSON

- 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			
PLANT MCINTOSH ASH POND 1 (AP-1)			
EXISTING COAL COMBUSTION RESIDUALS (CCR)			
SURFACE IMPOUNDMENT			
5 YEAR PERMIT REVIEW			
EFFINGHAM, GEORGIA			
Atlantic Coast Consulting, Inc. 770-594-5998 www.atcc.net		11545 Wills Road, Ste 100 Alpharetta, GA 30009	
PROJ. NO.	1054-123	DWG.	3
SCALE	1"=100'	EDIT	08/05/24
AUGUST 2024		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



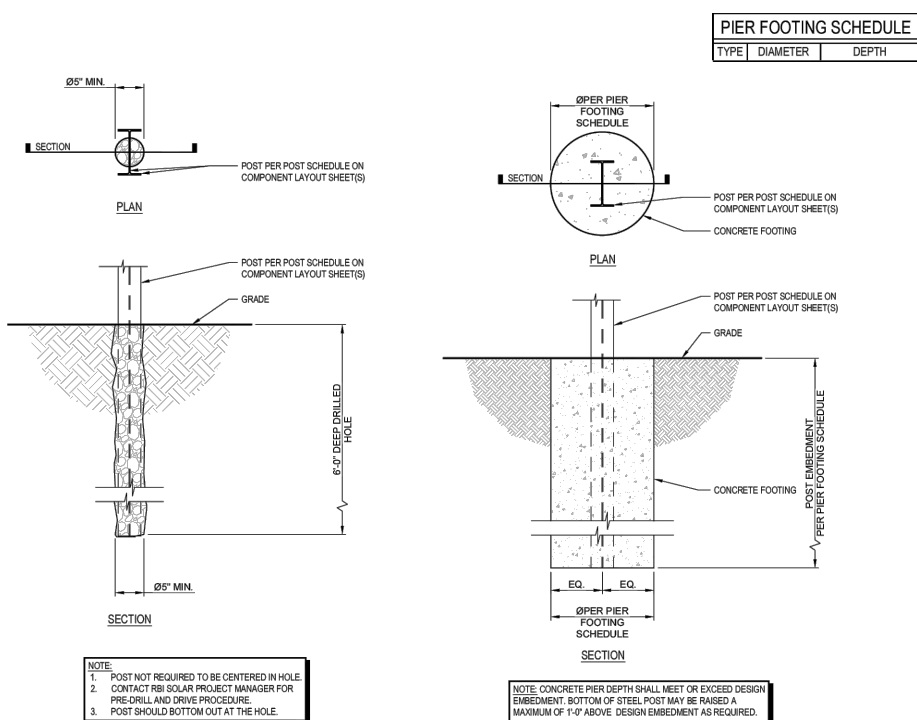
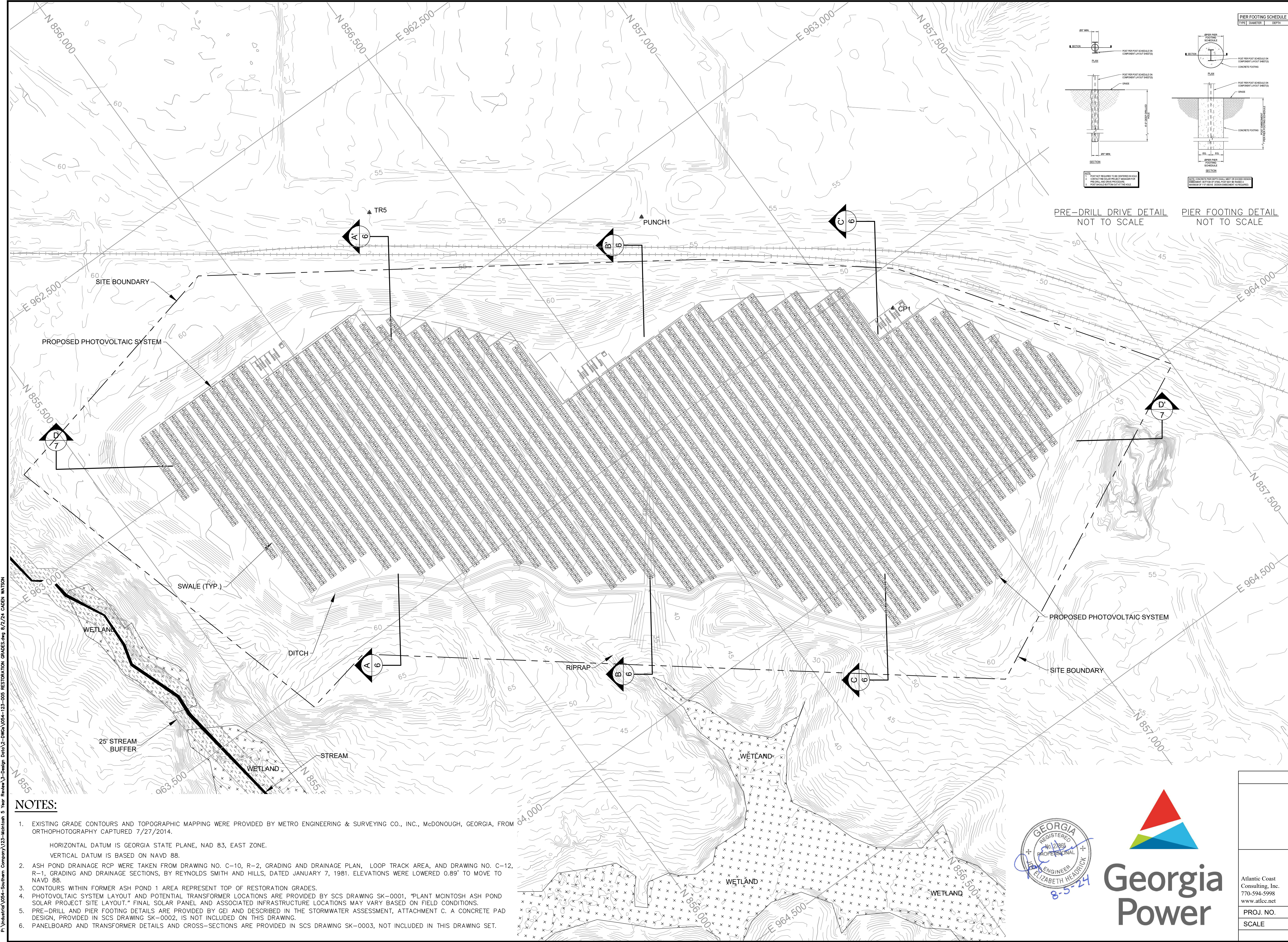
Control Monuments			
Easting	Northing	Elevation	Name
963,581.28	857,090.69	59.28	CP1
962,762.97	856,309.99	58.80	TR5
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964,655.42	858,644.77	49.21	GPCMON5

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.

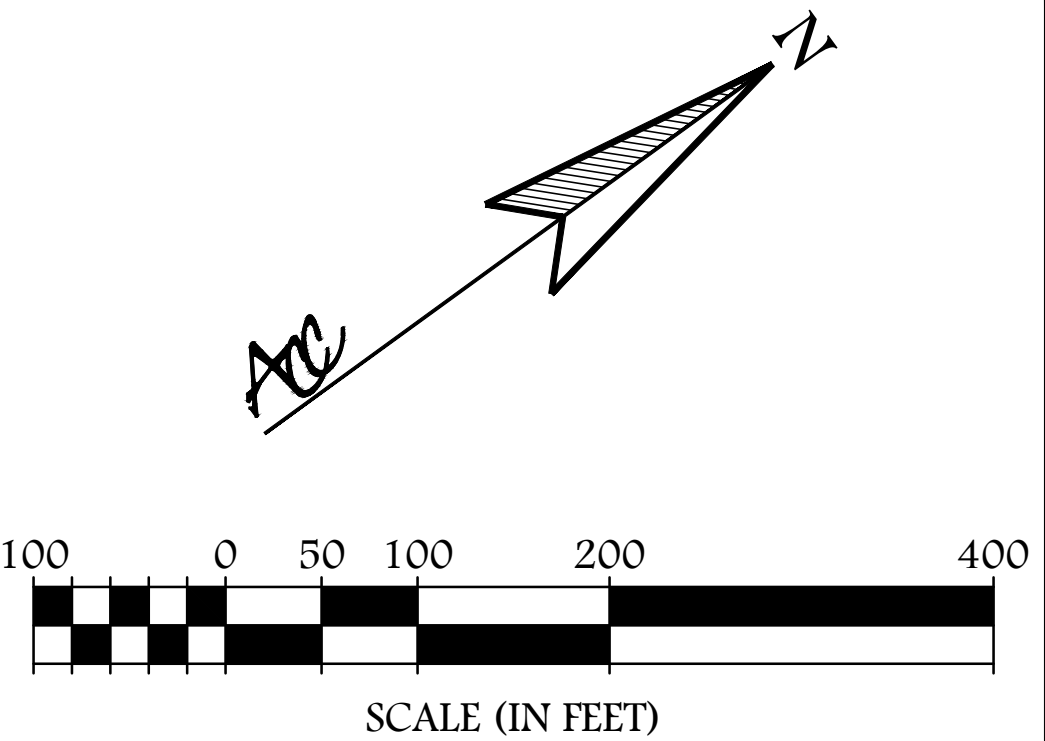
- NOTES:
- EXISTING GRADE CONTOURS WITHIN CELLS A, B, C, D AND CONTROL POINTS WERE TAKEN FROM DRAWING NO. P355-4, PLANT MCINTOSH ASH CELLS - JUNE 2014 SURVEY, DATED JUNE, 26, 2014.
 - VERTICAL DATUM IS BASED ON BRASS MONUMENT (GPCMON5) NEAR PLANT STACK ELEVATION 50.10. ELEVATIONS WERE LOWERED 0.89' TO 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				
PLANT MCINTOSH ASH POND 1 (AP-1)				
EXISTING COAL COMBUSTION RESIDUALS (CCR)				
SURFACE IMPOUNDMENT				
5 YEAR PERMIT REVIEW				
EFFINGHAM, GEORGIA				
Atlantic Coast Consulting, Inc. 770-594-5998 www.atcc.net		11545 Wills Road, Ste 100 Alpharetta, GA 30009		
PROJ. NO.	1054-123	DWG.	4	EDIT 08/05/24
SCALE	1"=100'	SHEET 4 OF 11		
AUGUST 2024				



PRE-DRILL DRIVE DETAIL NOT TO SCALE
PIER FOOTING DETAIL NOT TO SCALE



- LEGEND
- RAILROAD (APPROXIMATE)
 - BENCHMARK/CONTROL MONUMENT
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 - SITE BOUNDARY
 - PROPOSED RESTORATION GRADE CONTOUR



Control Monuments			
Easting	Northing	Elevation	Name
963,581.28	857,090.69	59.28	CP1
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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," FINAL SOLAR PANEL AND ASSOCIATED INFRASTRUCTURE LOCATIONS MAY VARY BASED ON FIELD CONDITIONS.
- 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.



PROPOSED RESTORATION GRADES AND PHOTOVOLTAIC SYSTEM

CLOSURE DRAWINGS

GEORGIA POWER

PLANT MCINTOSH ASH POND 1 (AP-1)

EXISTING COAL COMBUSTION RESIDUALS (CCR)

SURFACE IMPOUNDMENT

5 YEAR PERMIT REVIEW

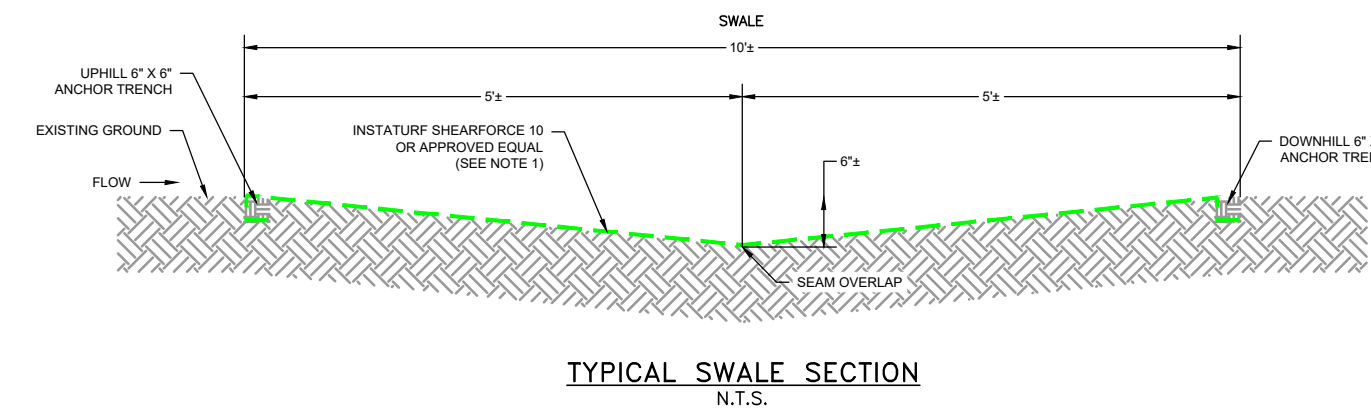
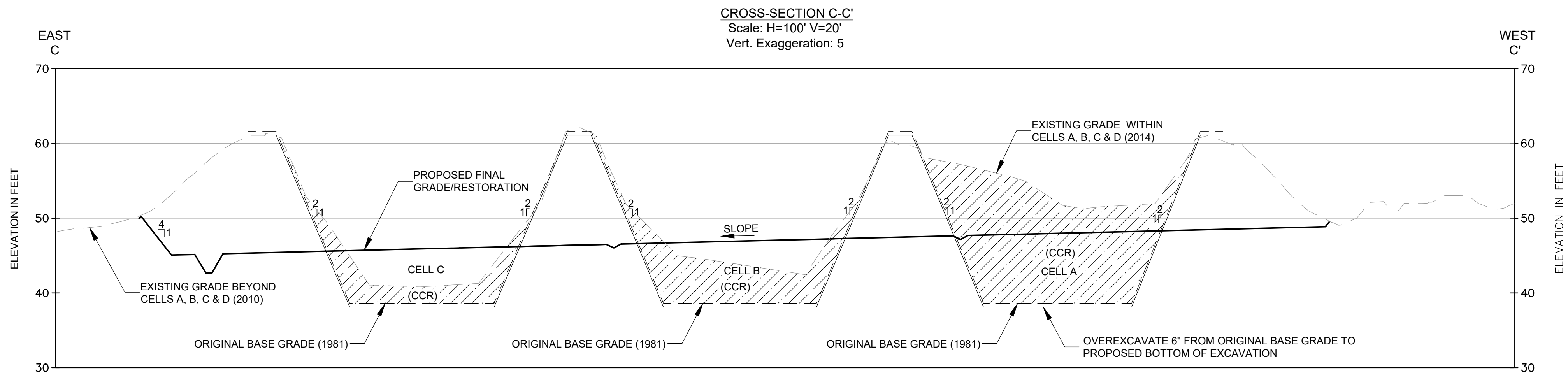
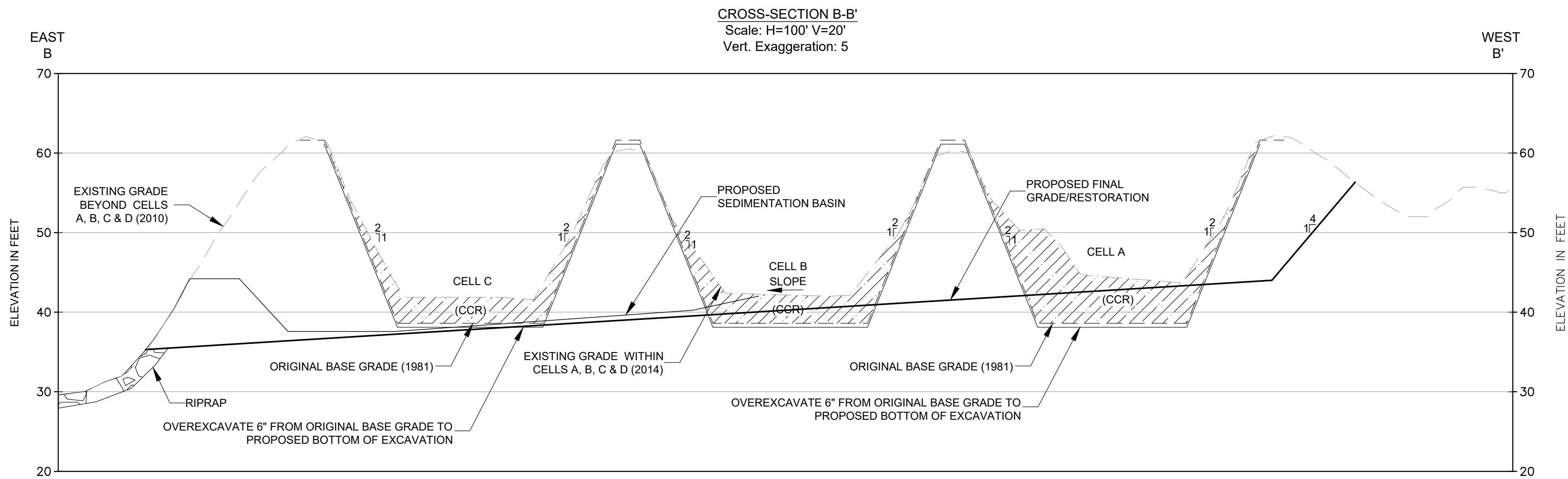
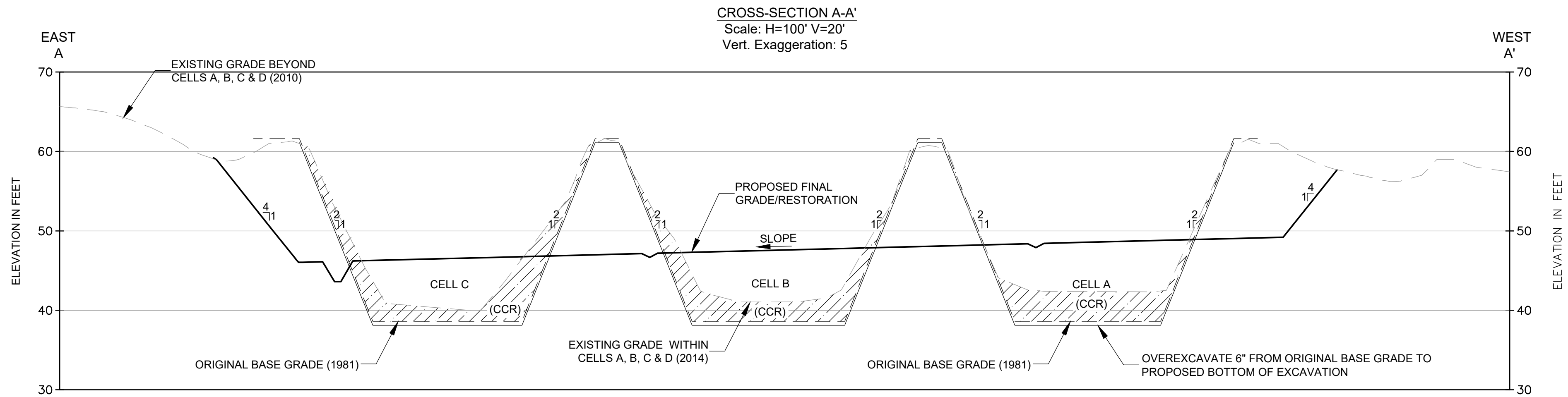
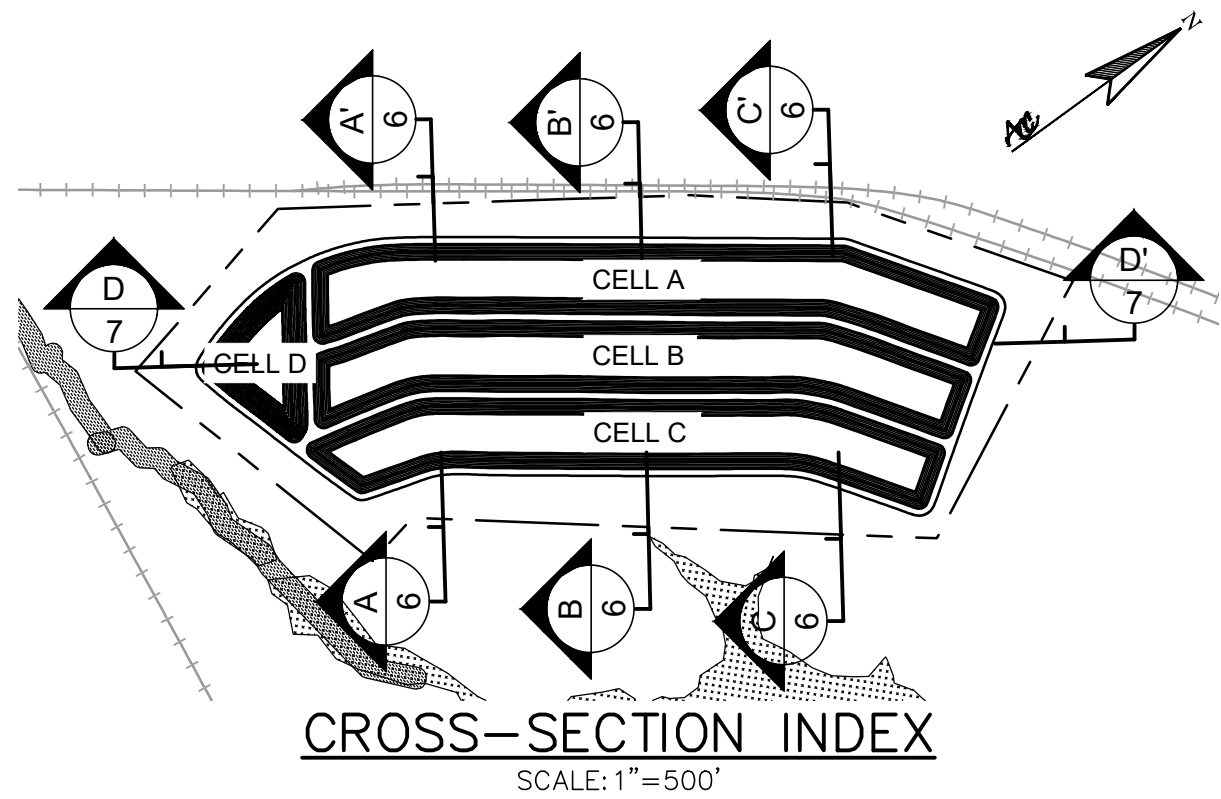
EFFINGHAM, GEORGIA

Atlantic Coast Consulting, Inc.
770-594-5998
www.atcc.net

11545 Wills Road, Ste 100
Alpharetta, GA 30009

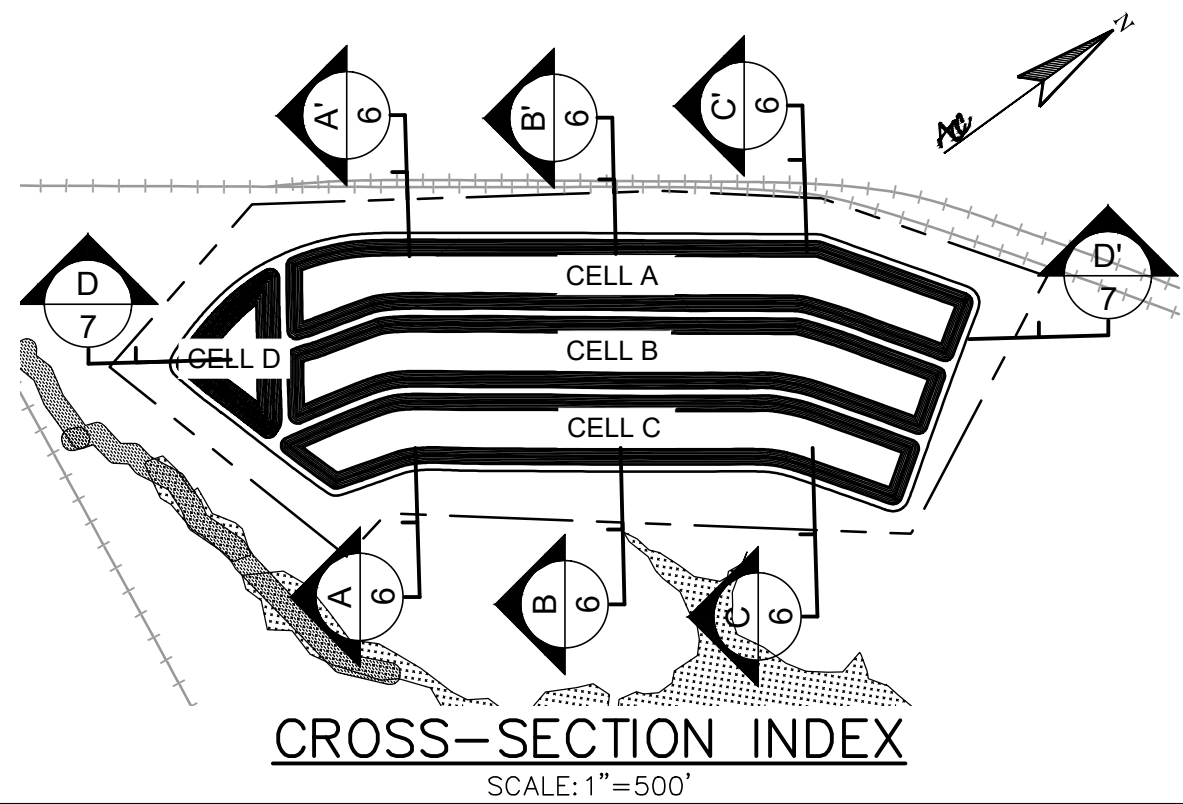
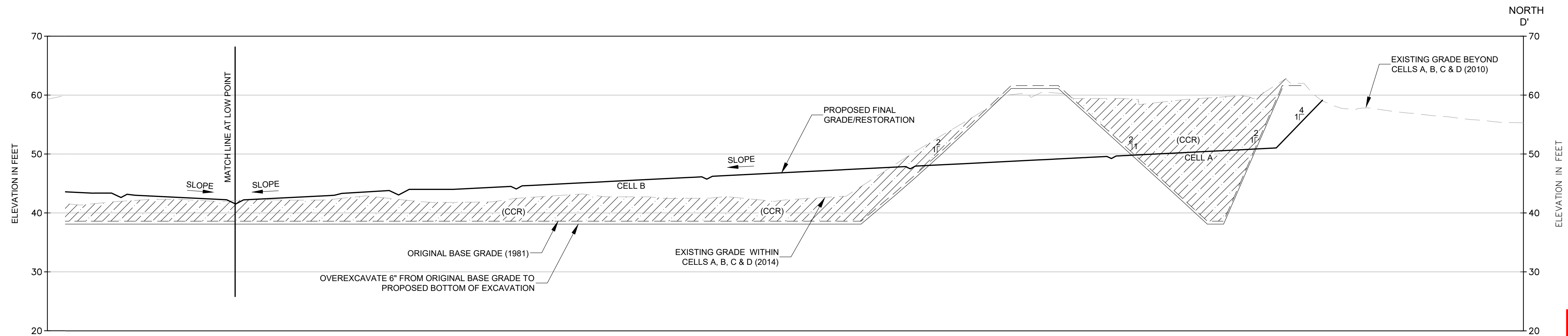
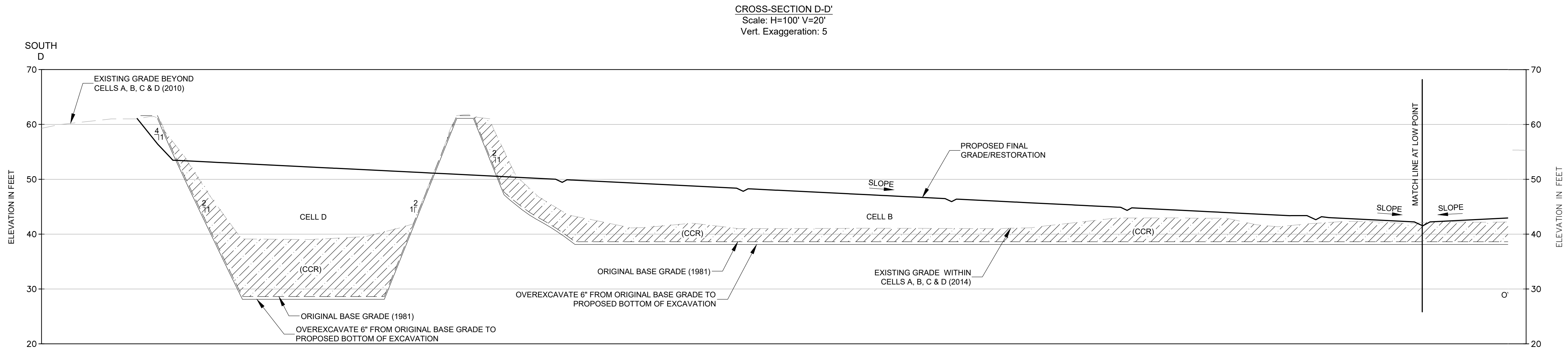
PROJ. NO.	1054-123	DWG.	5	EDIT	08/05/24
SCALE	1"=100'	SHEET 5 OF 11			
AUGUST 2024					

P:\Industrial\054-Southern Company\123-McIntosh 5 Year Review\3-Design Data\3-DWG\054-123-008 SECTIONS.dwg 8/2/24 CADEN WATSON



CROSS-SECTIONS A-A', B-B' & C-C'			
CLOSURE DRAWINGS			
GEORGIA POWER			
PLANT MCINTOSH ASH POND 1 (AP-1)			
EXISTING COAL COMBUSTION RESIDUALS (CCR)			
SURFACE IMPOUNDMENT			
5 YEAR PERMIT REVIEW			
EFFINGHAM, GEORGIA			
Atlantic Coast Consulting, Inc. 770-594-5998 www.atcce.net		11545 Wills Road, Ste 100 Alpharetta, GA 30009	
PROJ. NO.	1054-123	DWG.	6
SCALE	1"=100'	EDIT	08/05/24
AUGUST 2024		SHEET 6 OF 11	

P:\Industrial\054-Southern Company\123-McIntosh 5 Year Review\3-Design Data\3-DWG\054-123-007 SECTIONS.dwg 8/2/24 CADEN WATSON



CROSS-SECTIONS D-D'			
CLOSURE DRAWINGS			
GEORGIA POWER			
PLANT MCINTOSH ASH POND 1 (AP-1)			
EXISTING COAL COMBUSTION RESIDUALS (CCR)			
SURFACE IMPOUNDMENT			
5 YEAR PERMIT REVIEW			
EFFINGHAM, GEORGIA			
Atlantic Coast Consulting, Inc. 770-594-5998 www.atcc.net		11545 Wills Road, Ste 100 Alpharetta, GA 30009	
PROJ. NO.	1054-123	DWG.	7
SCALE	1"=100'	EDIT	08/05/24
AUGUST 2024		SHEET	7 OF 11

P:\Industry\054-Southern Company\125-McIntosh 5 Year Review\3-Design Data\3-DWG\054-123-008 PLANT & LEGAL DESCRIPTION.dwg 8/2/24 CUBEN WATSON

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

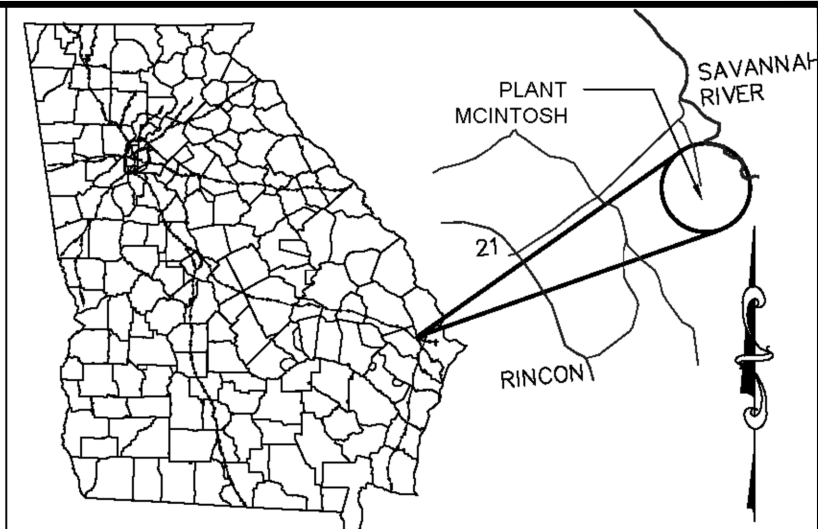
NOTE: THIS PLAT IS NOT VALID
FOR RECORDING PURPOSES
UNLESS SURVEYOR'S SIGNATURE
APPEARS HEREON IN A
CONTRASTING COLOR OF INK

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 COMPLES 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

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

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 PERMITTED SITE BOUNDARY", DATED 11/6/2018, GPC MAP FILE NO. P470-7.

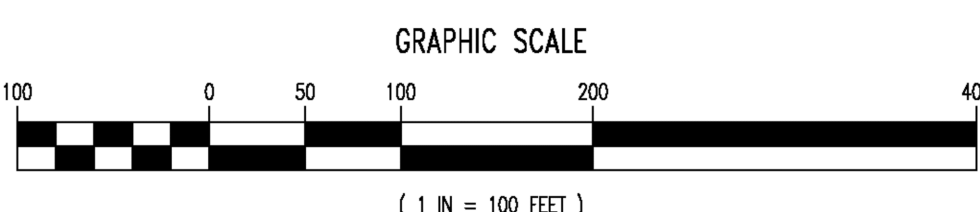


MONUMENTATION LEGEND

UTILITY LEGEND

PLAT ABBREVIATIONS

- 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 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)



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 WHB
SCALE DATE
1" = 100' NOVEMBER 6, 2018
DRAWING NUMBER
P470-7
Sheet 1 of 1

PLANT & LEGAL DESCRIPTION

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

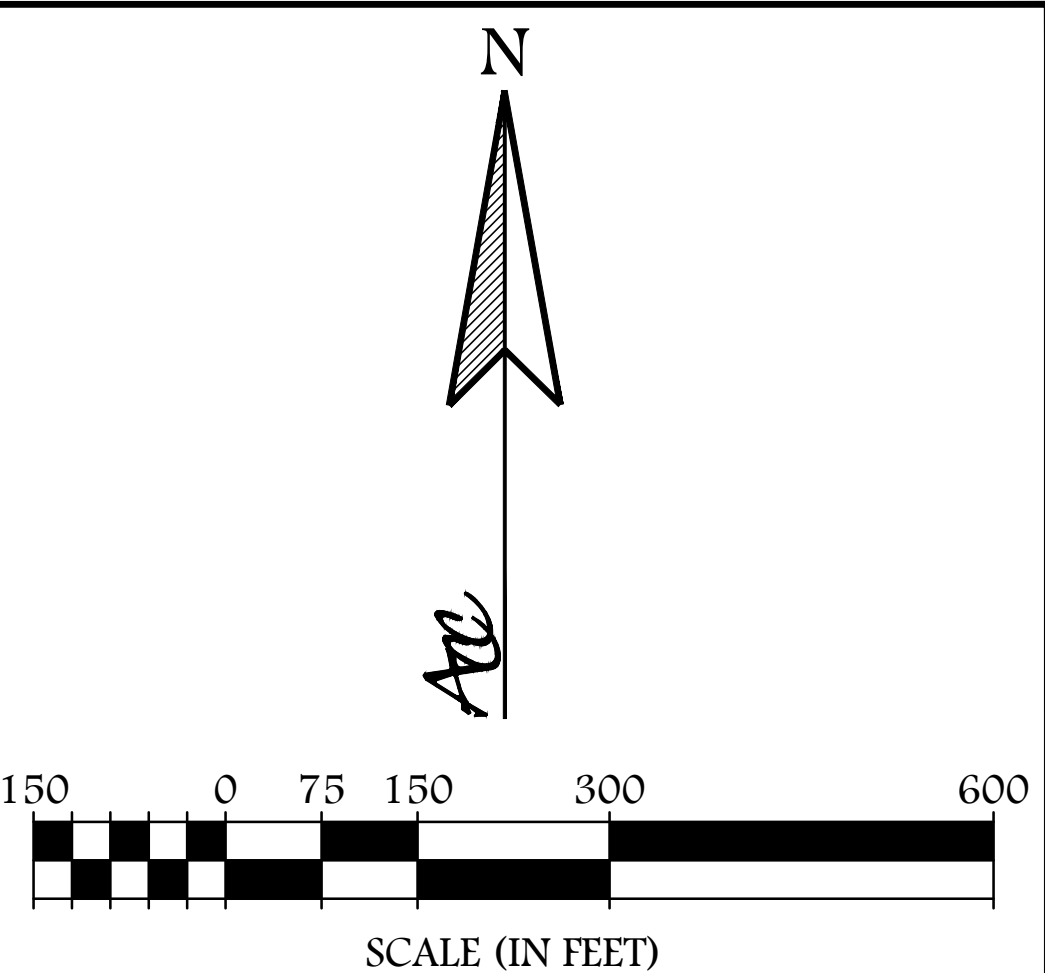
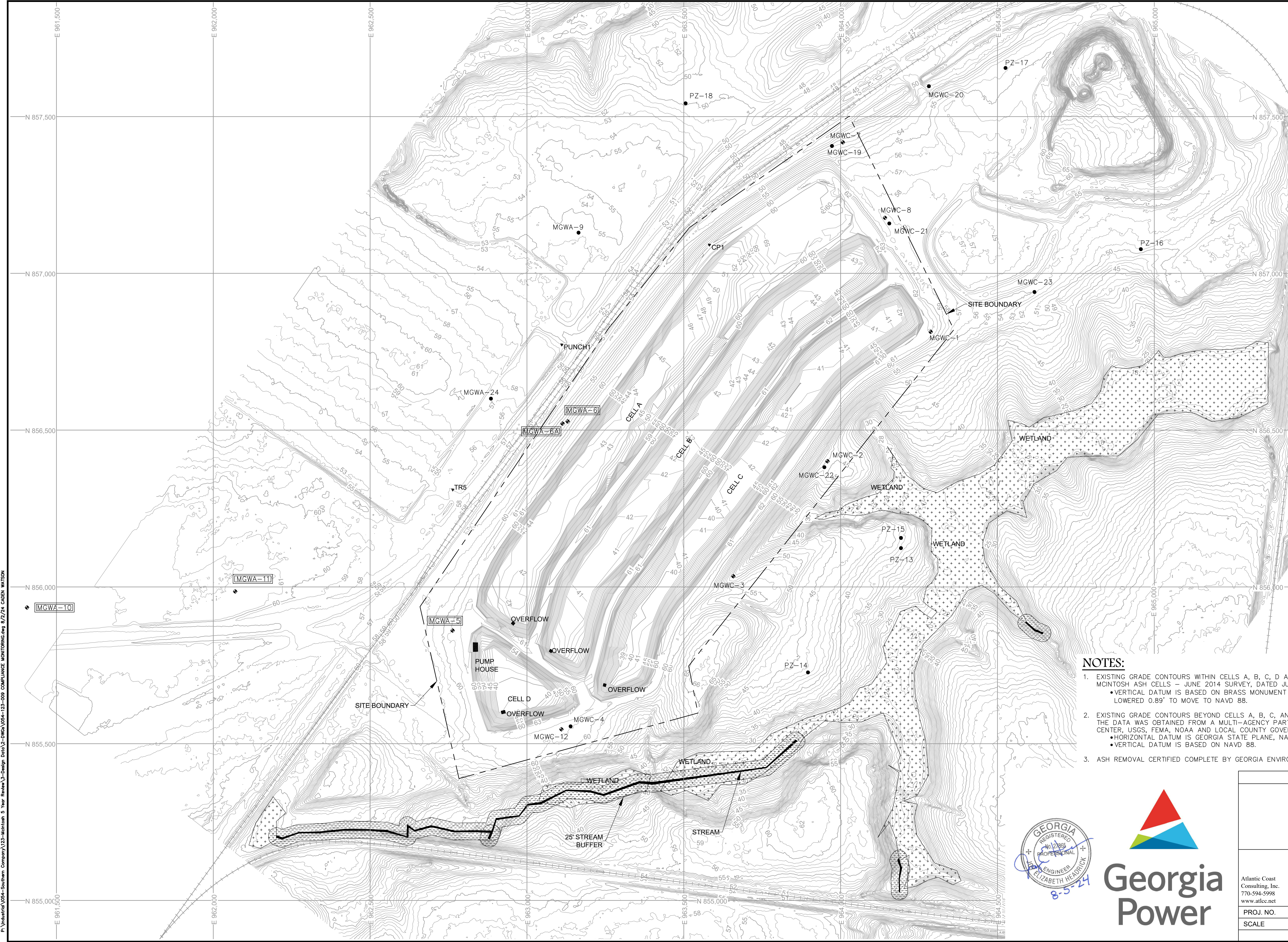
Atlantic Coast Consulting, Inc.
770-594-5998
www.atccc.net

11545 Wills Road, Ste 100
Alpharetta, GA 30009

PROJ. NO. 1054-123 DWG. 8 EDIT 08/05/24

SCALE NONE SHEET 8 OF 11
AUGUST 2024

P:\Vendors\054-Southern Company\123-McIntosh 5 Year Review\3-Design Data\3-DWG\054-123-008 COMPLIANCE MONITORING.dwg 8/2/24 CADEN WATSON



- LEGEND**
- RAILROAD (APPROXIMATE)
 - BENCHMARK/CONTROL MONUMENT
 - STREAM BUFFER
 - STREAM
 - WETLAND
 - EXISTING GROUND SURFACE CONTOUR
 - SITE BOUNDARY
 - MGWC-3 DOWNGRADIENT MONITORING WELL
 - MGWA-1 UPGRADIENT MONITORING WELL
 - PZ-16 PIEZOMETER



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.
 - ASH REMOVAL CERTIFIED COMPLETE BY GEORGIA ENVIRONMENTAL PROTECTION DIVISION OCTOBER 6, 2021.



COMPLIANCE MONITORING NETWORK			
CLOSURE DRAWINGS			
GEORGIA POWER			
PLANT MCINTOSH ASH POND 1 (AP-1)			
EXISTING COAL COMBUSTION RESIDUALS (CCR)			
SURFACE IMPOUNDMENT			
5 YEAR PERMIT REVIEW			
EFFINGHAM, GEORGIA			
Atlantic Coast Consulting, Inc. 770-594-5998 www.atccc.net		11545 Wills Road, Ste 100 Alpharetta, GA 30009	
PROJ. NO.	1054-123	DWG.	9
SCALE	1"=150'	EDIT	08/05/24
AUGUST 2024		SHEET	9 OF 11

GEORGIA
UNIFORM CODING SYSTEM

FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES

GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

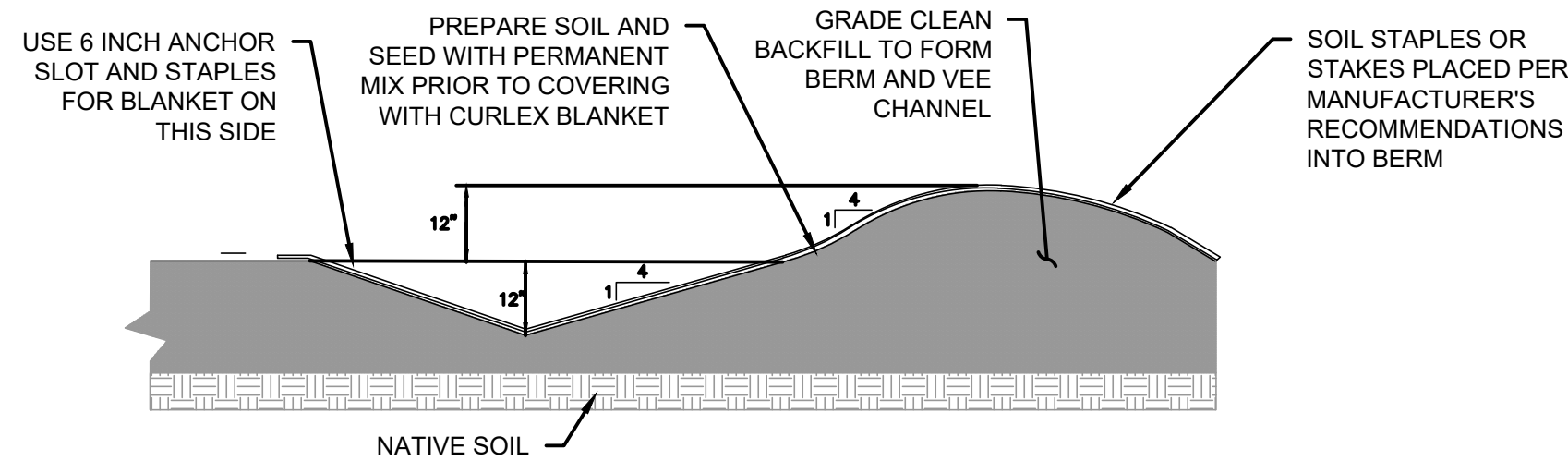
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel existing stream, or ditch.
Co	CONSTRUCTION EXIT			A crushed 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 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			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 SOMMER			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			A linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dispersion 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.
Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

VEGETATIVE PRACTICES

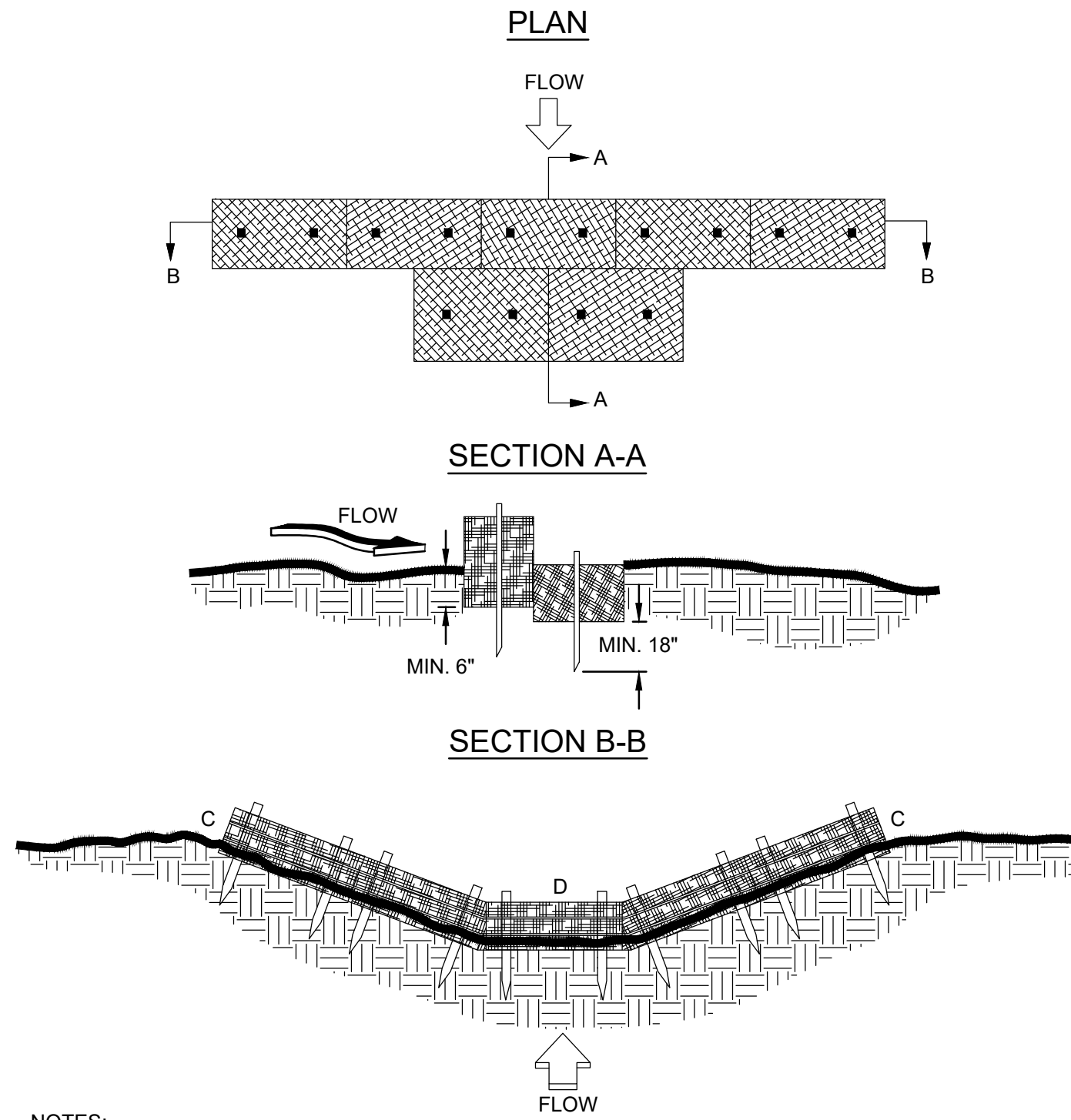
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)			Planting vegetation 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 (SEEDING)			A permanent vegetative cover using seeds 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-Cc	FLOCCULANTS AND COAGULANTS			Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM 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	TACKIFIERS AND BINDERS			Substance used to anchor straw or hay mulch by causing the organic material to bind together.



- 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.

TYPICAL DIVERSION BERM

N.T.S.



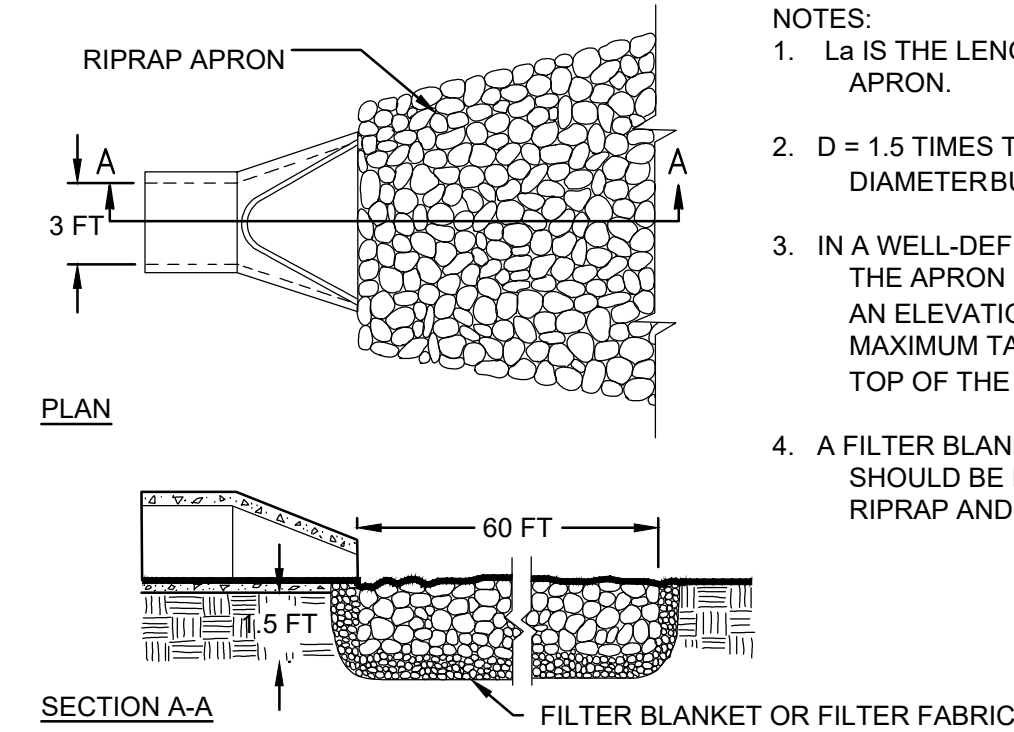
NOTES:

- 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.

TYPICAL STRAW BALE CHECK DAM

N.T.S.

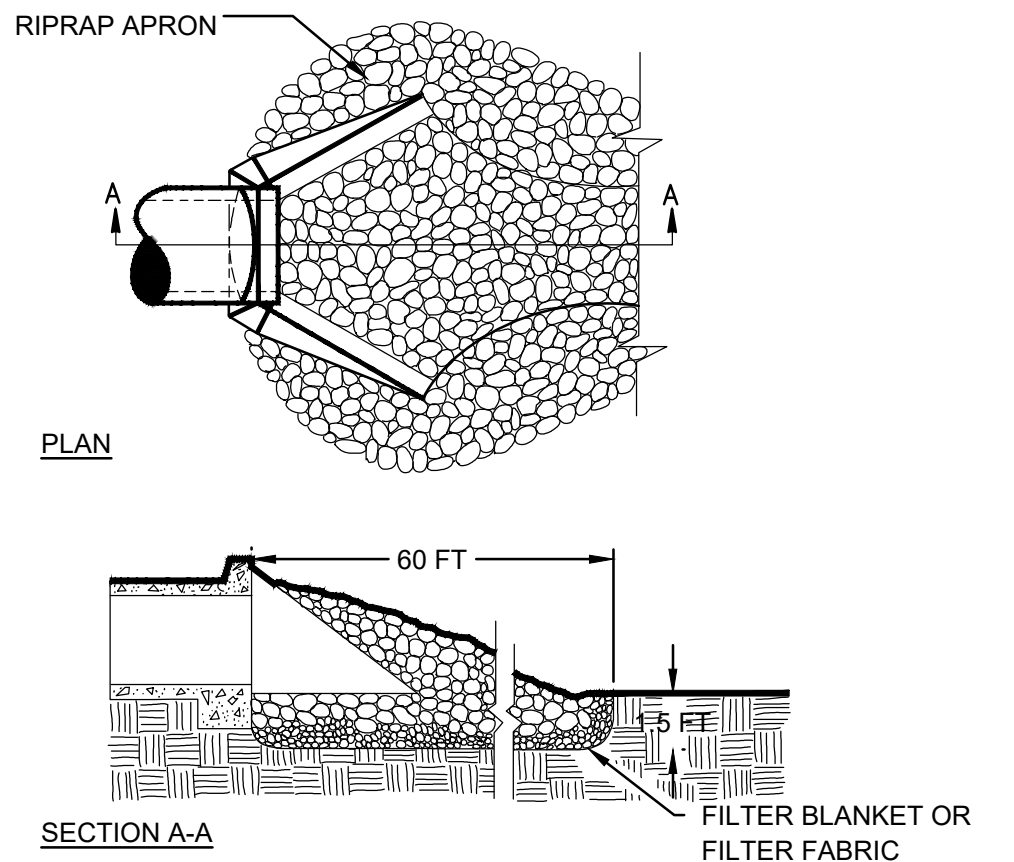
PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL



NOTES:

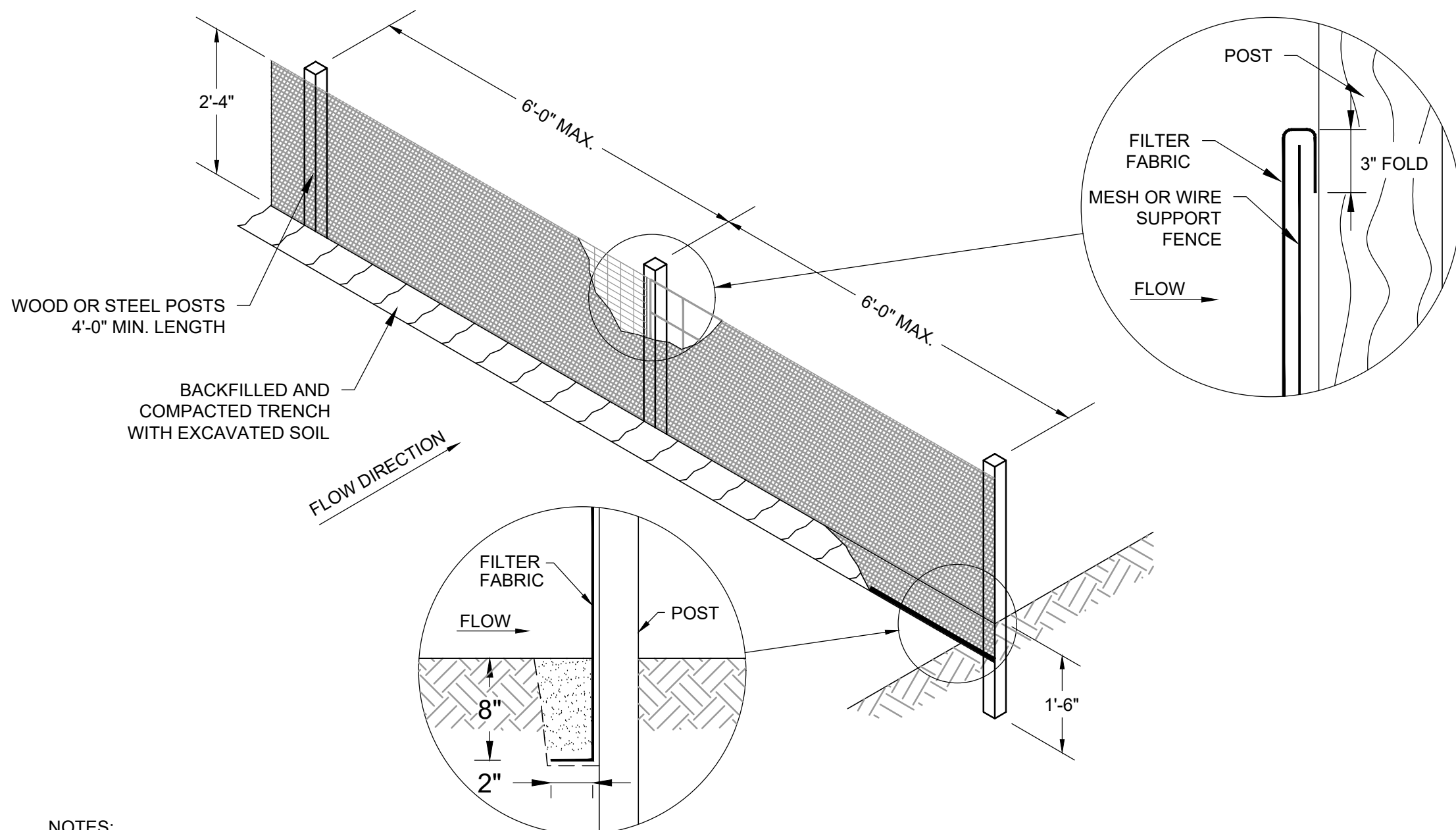
- La IS THE LENGTH OF THE RIPRAP APRON.
- D = 1.5 TIMES THE MAXIMUM STONE DIAMETERBUT NOT LESS THAN 6".
- IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).
- A FILTER BLANKET OR FILTER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

PIPE OUTLET TO WELL DEFINED CHANNEL



RIPRAP OUTLET PROTECTION

N.T.S.

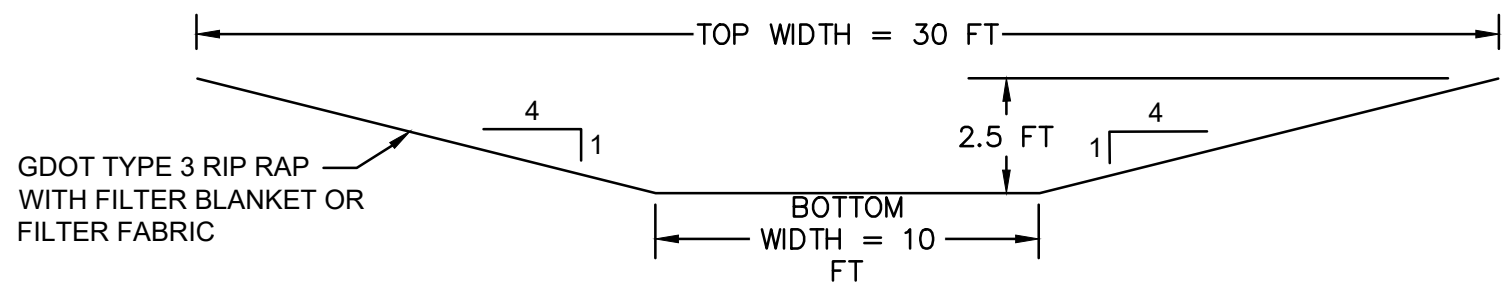


NOTES:

- 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 SPICE 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.

TYPICAL SILT FENCE ~ NON-SENSITIVE AREAS

N.T.S.



ARMORED STORMWATER CONVEYANCE CHANNEL

N.T.S.



DETAILS			
CLOSURE DRAWINGS			
GEORGIA POWER			
PLANT MCINTOSH ASH POND 1 (AP-1) EXISTING COAL COMBUSTION RESIDUALS (CCR) SURFACE IMPOUNDMENT 5 YEAR PERMIT REVIEW EFFINGHAM, GEORGIA			
Atlantic Coast Consulting, Inc. 770-594-5998 www.atlcc.net		11545 Wills Road, Ste 100 Alpharetta, GA 30009	
PROJ. NO.	1054-123	DWG.	10
SCALE	NONE	EDIT	08/05/24
AUGUST 2024		SHEET	10 OF 11

Diagram illustrating the cross-section of a spillway structure with the following dimensions and elevations:

- TOP OF DAM ELEVATION = 44 FT
- FREEBOARD = 1 FT (1 FT MIN.)
- EMERGENCY SPILWAY CREST ELEVATION = 41.5 FT
- $H_p = 1.5$ FT
- SLOPE = 4:1
- BOTTOM WIDTH = 10 FT
- GDOT TYPE 3 RIPRAP LINING WITH FILTER BLANKET OR FILTER FABRIC

Diagram illustrating the cross-section of a ditch with a riprap lining. The ditch has a flat bottom and sloped sides. The bottom width is labeled "LENGTH = 48.8 FT". The depth of the ditch is labeled "Hp = 1.5 FT". The top width of the ditch is labeled "EXIT CHANNEL LENGTH = 95 FT". The bottom slope is labeled "Se = 25%". The side slope is labeled "So = 25%". The lining is labeled "GDOT TYPE 3 RIPRAP LINING WITH FILTER BLANKET OR FILTER FABRIC".

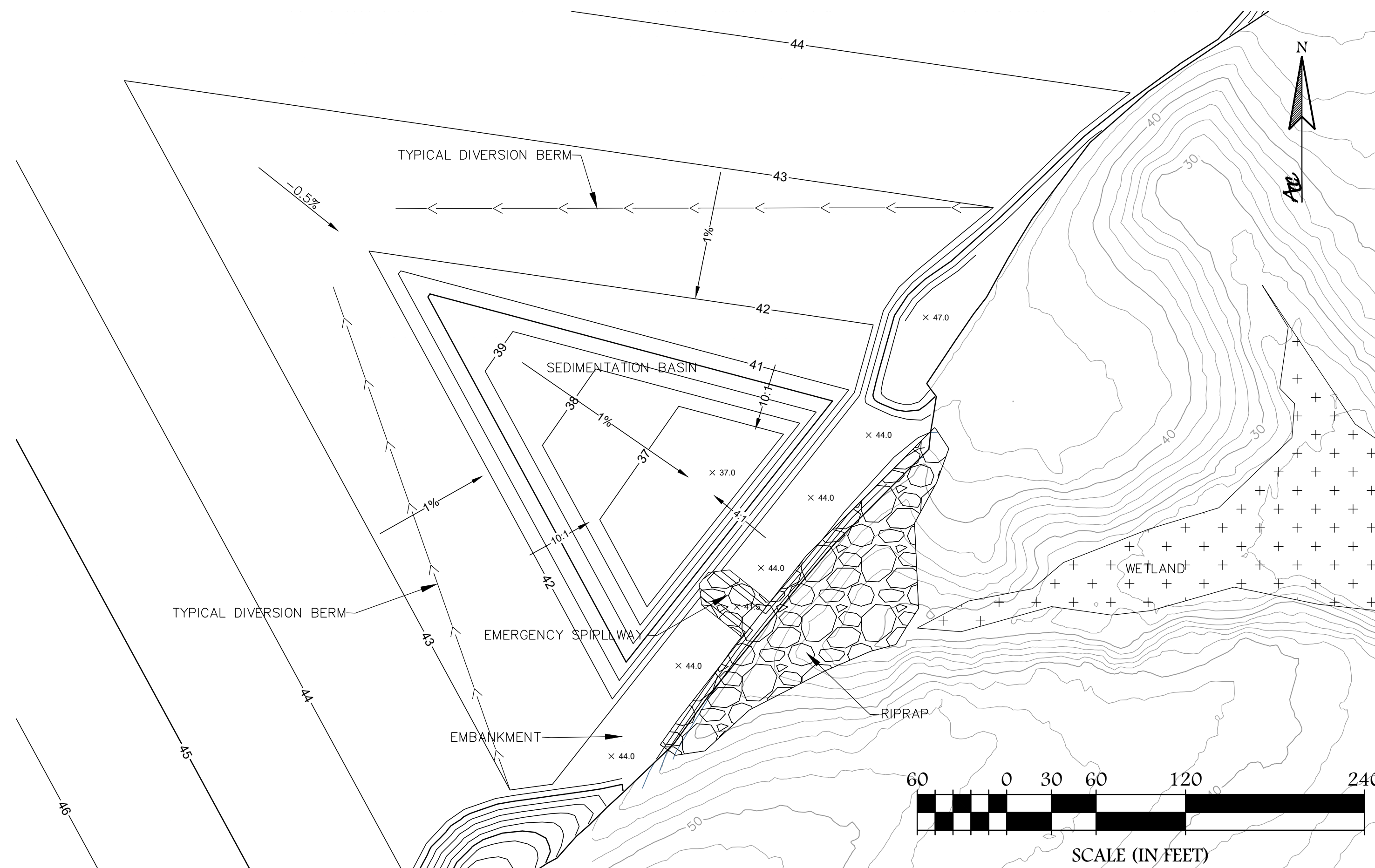
Diagram illustrating the cross-section of a dam structure, showing various components and elevations:

- MAX. VOLUME OF BASIN**: Indicated by a bracket across the top of the structure.
- 40 ELEVATION 59,427 CU. YD.**: Volume of material above the 38 elevation.
- 38 ELEVATION 15,264 CU. YD.**: Volume of material above the 35 elevation.
- VOLUME WHEN SEDIMENT REMOVAL IS REQUIRED**: Indicated by a shaded area on the left side of the structure.
- 3"-4" STONE**: Material layer at the base of the structure.
- 70" LONG (2 NO. 6 STEEL REBAR)**: Reinforcement detail at the base.
- CONCRETE ANTIFLOTATION BLOCK: 18" X 74" X 74"**: Detail of the block used for flotation resistance.
- 78"**: Width of the structure at the top.
- 54"**: Width of the structure at the base.
- 1.5' STORAGE**: Storage area on the left side.
- 4:1 SIDE SLOPE**: Slope of the structure.
- PERFORATE THE ENTIRE RISER WITH 1/2" HOLES**: Detail of the riser.
- ANTI-SEEP COLLAR: 86" X 86"**: Collar detail.
- 36" DIA. CORRUGATED PIPE**: Pipe detail.
- 36 ELEVATION**: Elevation of the structure.
- 96 FT**: Length of the structure.
- 35 ELEVATION**: Elevation of the structure.
- GDOT TYPE 3 RIPRAP OUTLET WITH FILTER BLANKET OR FILTER FABRIC**: Detail of the outlet.
- EMERGENCY SPILLWAY CREST ELEVATION 41.5**: Elevation of the spillway crest.
- EMERGENCY SPILLWAY WIDTH 10**: Width of the spillway.
- 33'**: Width of the spillway.
- TOP OF DAM CONSTRUCTED ELEV. 44**: Elevation of the top of the dam.
- TOP OF DAM SETTLED ELEV. 44**: Elevation of the top of the dam after settlement.
- 1' FREEBOARD**: Freeboard height.
- 1.5' SPILLWAY FLOW DEPTH**: Flow depth of the spillway.
- VARIES:1 EXISTING SIDE SLOPE**: Note indicating the side slope varies with the existing slope.

N.T.S.

N.T.S.

N.T.S.



SCALE: 1" = 60'



<p>DETAILS</p> <p>CLOSURE DRAWINGS</p> <p>GEORGIA POWER</p> <p>PLANT MCINTOSH ASH POND 1 (AP-1)</p> <p>EXISTING COAL COMBUSTION RESIDUALS (CCR)</p> <p>SURFACE IMPOUNDMENT</p> <p>5 YEAR PERMIT REVIEW</p> <p>EFFINGHAM, GEORGIA</p>			
<p>Atlantic Coast Consulting, Inc. 770-594-5998 www.atcc.net</p>		<p>11545 Willis Road, Ste 100 Alpharetta, GA 30009</p>	
<p>PROJ. NO.</p>	<p>I054-123</p>	<p>DWG.</p>	<p>11</p>
<p>SCALE</p>	<p>NONE</p>	<p>EDIT</p>	<p>08/05/24</p>
<p>AUGUST 2024</p>		<p>SHEET</p>	<p>11 OF 11</p>